

## TYPES 0F MANKIND.



## "TYPES OF MANKIND:

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## BASED uPON TH:

# ANCIENT MONUMENTS, PAINTINGS, SCULPTURES, AND CRANIA OF RACES, 

## ABD UPON THEIR

> NATURAL, GEOGRAPHICAL, PHILOLOGICAL, AND BIBLICAL HISTORY:

HEUSTRATED BY AELEGIORS PROX THE INEDITED PAPERS OI

## SAMUEL GEORGE MORTON, MD., <br> 

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& \text { PROP. L. AGASSIZ, LLD.; W. USHER, MD. ; AND PROP..H. B. PATTERSON, MD.: } \\
& \text { ron (icj BY D. "url } \\
& \text { J. C. NOTT, M.D., and GEO. R. GLIDDON, }
\end{aligned}
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-Words are things; at ad a mall drop of toll;
Falling, lie dew upon a thought, producers
That which miles thoupande, proper millions, think"-Breor.

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## MEMOR,Y <br> OP

MORTON.

## SECOND EDITION.

## PUBLISHERS'ADVERTISEMENT.

The interest now directed towards Anthropological Researches induces us to issue another edition of the present work, in form and style less costly than the one already furnished to the Subscrabers whose names are printed in Appendix II.

Bound copies of the First (or Subscribers') Edition will continue to be supplied, to order, at seven dollars and a half each.

LIPPINCOTT, GRAMBO \& CO.
Publiahers.
Phimadrlphas, April 1, 1854.

## PREFACE.

gigem. aididdon.
> "The subject of Ethrology I deem it expedient to postpone. On this I have collected a mans of nem materials, which I hope in time to prodnce; bat antil they have been submitted to the mesterly analysis of my honored friend, samurl Grozaz Mortoz, M. D., Philedelphia, a synopais from my hends would be premature." *

Lititr did I expect, while penning the above note, that, ere four years had run their course, it would fall to the lot of Dr. Notr and myself to "close ranks" and partially fill the gap left in American Ethrology when the death-shot struck down our friend and leader. To him the "new materials" were suhmitted: hy him they were enalyzed with bis customary acuteness; and from him would the world have received a serice of works superseding the neceseity for the present volume, together with auy puhlic action of my collcague and mygelf in that science so indelibly marked by Morton as his own. The 15th of May, 1851, arrested bis hand, and left us, with all who knew him, to sorrow at his loss: nor, for eleven montha, did the endeavor to raise a literary monument to his memory suggest itself either to Dr. Nott or to myself.
"Types of Mankind" owes its origin to the following incidents:After a gratifying winter at New Orleans, I visited Mobile in April, 1852 ; partly to deliver a course of Lectures upon "Babylon, Nineveb, and Persepolis," but mainly to renew with Dr. Nott those interchanges of thought which amity had commenced during my preceding sojourn, in 1848, at one of the most agreeable of cities. Morton and Ethnology, it may well be supposed, were exhaustless topics of conversation. Deploring that no one had stepped forward to make known the matured views of the father of our cis-Atlantic school of Anthropology, it occurred to us that we would write one or more articles, in some Review, based upon the correspondence and

[^0]printed papers of Morton in our several possession. Before doing so, however, we conceived it to be due to Mrs. Morton and her home-cirele, to inquire by letter, if such procceding would obtain their sanction; and also whether, in Mrs. Morton's opinion, there were among the Doctor's manuscripta any that might be eligibly embodied in our proposed articles. The graceful readiness with which our proffer was met is best exemplified by the fact that Dr. Nott and myself received immediately, by express frorn Philadelphia, a mass of Dr. Morton's autographs on scientific themes, together with such hooks and papers as were deemed suitable for our purposes. On a subsequent visit to Philadelphia, I was permitted to select from the Doctor's shelves whatever was held to be appropriate to our studies; and, while this book has heen passing through the press, the whole of Dr. Morton's correspondence with the scientific world was entrusted to Dr. Patterison and myself for mutual reference. But, the unbounded confidence with which we have been honored, whilst most precious to our feelings, exhances greatly our responsibility. Actuated, individually, by the sole desire to render justice to our beloved friend, each of us has executed his part of the task to the hest of his ability : at the same time we can emphatically declare that, until the pages of our work were stereotyped, no meraber of Dr. Morton's family was cognizant of their verbal contents. Thus much it is my privilege to testify, in order that, if any of the writers have erred in their conceptious of Morton's scientific opinions, the onus of sueh inadvertence may fall upon themselves exclusively. Nevertheless, the singleness of purpose and harmony of method with which Dr. Nott, Dr. Patterson, and myself, have striven to fulfil our pledges, are guarantees that no erroneous interpretations, if any such exist, can have arisen intentionally. Throughout this volume, Morton speaks for himself.

The receipt at Mohile of such welcome accretions to our ethnographical stock prompted a change of plan. In lieu of ephemeral notices in a Review, Dr. Nott united with me in the projection of "Types of Mankind"; the scope of which has daily grown larger, in the ratio of the facihties with which we have heen signally favored.

On the first printed announcernent of our intention [New Orleans, Decemher, 1852], the interest manifested arnong the friends of science was snch, that, by March, I counted nearly 500 subscriptions in furtherance of the work.

Prof. Agassiz's very opportune visit to Mobilo during April, 1853, led to a contribution from his own pen that bases the Natural Histury of mankind upon a principle heretofore unanticipated. Dr. Usher kindly volunteered a synopsis of the geological and palsontological features of human history; and Dr. Pattrabon, fellow.
citizen, professional colleague, and admiring friend of Dr. Morton, undertook the biographical Memoir which justifies this volume's dedication. The frank concurrence of Messis. Lippincott, Grambo \& Co. has removed every obstacle to effective publication; and thus, through the liberality and thirst for information, so eminently cbaracteristic of American republicanism, "Types of Mankind," invested with abundant signatures, issues into day as one among multitudinous witnesses how, in our own age and land, scientific works can be written and published without solicitation of patronage from Governments, Institutions; or Societies; but solely through the co-operative support of an educated and knowledge-seeking people.

The departments of our undertaking, respectively assumed by Dr. Nott and myself, having been already set forth (infra, Part II., Essay I., p. 626), repetition is here superfluous. But while, on my side, I was euabled to devote nearly twelve monthe of uninterrupted seclusion (in Baldwin county, Alabama) to my portion of the labor, it must not he forgotten, on the other, that my colleague at Mobile performed his task under the ceaseless pressure of the severest professional duties. In view, therefore, of the amount of Dr. Nott's achieverments under such adverse circumstances, the reader who may be pleased to criticize the editorship of "Types of Mankind," whilet recognizing my colleague's hand in every line of Part I., and bis frequent suggestions throughout Parts II. and II., as concerns tbe substance, will act but justly if, as regards modes of expression, he should direct any strictures towards myself; whose part it has been occasionally to connect the various sections of this work by reconstructed sentences, or through a few intercalated paragrapbs, consequent upon the reception of new "copy" from Dr. Nott during the passage of these sheets through the press. Even at this later stage of our enterprise, owing to the distance between Mobile and Philadelphia, and to the dire havoc produced by a yellow fever simultaneously among our friends around Mobile Bay, I have not possessed the advantage of Dr. Nott's revision of "proof-sheets," nor had be the time to propose alterations.

The Preface to my Otia EEgyptiaca assigns sufficient reasons why any aspirations of mine towards excellence in Enghish composition would be vain. With myself, style is ever subordinate to matter; but my valued friends, Mr. Rrdwood Fibher, Mr. Lioyd P. Smith, and Di. Heney S. Pattrrgon, have most obligingly looked over a large portion of the "revises" as they came from the hands of the stereotyper.

I indulge the hope that all those gentlemen who have directly
promoted the scientific interests of our work, will find in it due acknowledgment of their courtesies. For the free use of the collection of Egyptological works - the best accessible to the public in this country - belonging to the Philadelphia Library Company, Dr. Morton's brother-in-law, Mr. Jonk Jay Smith, will accept my sincere thanks.

The Publishers state, on another page, the endeavor made to furnish our Subacribers with counter-value for their subscriptions far in excess of my original promises; and with these brief expository remarks my pen would stop, did not personsl gratitude clain. expression.

Those acquainted with my earlier life (apent in the Levant until the age of thirty-two) may, perbaps, read some portions of this volume with feelings of eurprise at the range of studies once so alien to my vocatione, prospects, and ambition. By way of explanation let me state, that, whatever may have been the ground-work previ--ously lajd for the prosecution of self-culture, there was one obstacle to progress which would have been insurmountable, when (one among the million seeking freedom) I re-landed in the United States (1842), but for the friendship of a gentleman who - unlike Pharaoh's cbief butler that did not "remember Josepb, but forgat him"-bad known mo in illo tempore at Memphis. The munificence of Mr. R. K. Haignt of New York obviated all diffeculty by placing the necessary materials for study at my disposal; and not content with facilitating the attainment of my desires by his encouraging acts at home, Mr. Haight, on two occasions, enabled me to seek instruction abroad, at the fountain-sources of Paris, London, and Berlin. The pulsations of a grateful heart, and the hope that some readery may deem favors so magnanimous not useleasly bestowed, are the only reciprocities that can at present be tendered to him by
G. R. G.

Peiludilipeia, lot Jam, 1854.

## POSTSCRIPTUM.

By J. O. NOTt.
I have just received from Philadelphia proof-aieete of the above Preface, and hasten to add a few words.

Above three hundred and sixty wood-cuts, besides many lithographic plates, adorn this volume, and upon them, to some extent, depend its value and success. The reader can well imagine the
immense labor and heavy expense required to prepare a series of illostrations of this kind, wherein minute accuracy is so indispensable, and where such accuracy can be attained only through long-continued and patient industry combined with high artistic skill. So great, indeed, were the difficulties to be overcome, that tine authors could never for a moment have entertained tbe idea of publishing a work like "Types of Mankind," had it not been for the sid generously proffered by Mrs Gliddon, the accomplished lady of my colleague. To her amatear pencil are we indebted for the drawings of more than three handred of our wood-cuts, together with those for the lithographed Berlin-effigies.

To say nothing of the outlay whicb tbese illustrations must otherwise have involved, it would have been impossible for us to obtain, bere, an equal conformity to originsls through hired artists. Mru. Gliddon's hand was stimulated by no mercensry considerations; and we have enjoyed the incalculable advantage of having her near us at Mobile, for more than twelve months; laboring with us and for us: ever ready to alter or amend as our caprice, or necessity, migbt dictate. Although Mrs. Gliddon was unaccustomed to drawing on wood, and notwithstanding that the wood-engravers at Philadelphia (compelled, owing to the nature of the case, to carve from her drawings alone withont recarrence to the originals), may here and there have slightly erred, I venture to assert that no scientific work in our langunge presents as long a series of illustrations more relisble for faithfulness to originals.

Many of the heads, however, are given in simple outline, and the majority have required reduction; but persons who are familiar with the great works of Rosellini, Champollion, Prisse, Lepsius, Botta, Flandin, Layard, Dumoutier, \&c., from which these figures have been copied, will at once recognize a truthfulness in Mrs. Gliddon's designs (viewed ethnologically) which speaks more than the encomiums of an admiring friend.

Nor is it proper that I shonld close this Pontacript without somo acknowledgment to her hnshand. In the first place, it is mere justice to state, that Parts II. and III. are almost exclusively his own work : because, although not uainformed on the points therein treated, and agreeing in their scientific results, I wish to mention that the materieds, conception, and execution of these portions of our volume are due to him. Of Part I., on the other hand, a fuller share of responsihility must fall apon myself. The special province, which I have attempted to explore, is the Natural History proper of mankind; and I have eought to illustrate it through the physical and linguistic history of primeval races, as deduced from the time-worn monuments of nations
by the leading archeologists of our nineteenth century. This effort has also been much facilitated through the zeal and experience of my collaborator, Mr. Gudddon.

It is with no small gratification I now feel assured that, through Dr. Pattrbson's effective "Memoir," Morton's cherished fame will evermore preserve its rightfinl place among men of science; and, again, that th 3 ge grand Truths, for which I have' long "fought and bled," are at last established by the unanswerahle "Sketch" of our chief naturalist, Prof. Agabsiz; as well as triamphantly confirmed tinrough the teachings of scinolars who have investigated the records of antiquity in Egypt, China, Assyria, Indis, Palestine, and other Oriental conntries.
J. C. N.

Moman, ALA, Jenury 12th, 1864

## CONTENTS.

 ..... 84
DRDICATION - "To zHM Mamont or Montor" ..... v
PBEFACE-Ay Gro. R, Glidpon ..... is
Postaciptan - вт J. C. Nott. ..... xii
0 $\div$tion to the diffieint Tipis of Max" - coniributed by Prof. L.Agansis, LL.D. [ With colored lithagraphic Tablay and Map.]........... iviil
INTRODUCTION to "Ttres of ManEux" - bT J. C. Notr ..... 49
PARTI.
Ceap. I. - Grocinapgioas Digthibution oy ammale atd the Rages or Mex ..... 62
II. - Grishas Remarig of Tipes of Manemid ..... 80
III. - Bpeorpio Typhs - Caccashit ..... 88
IV. - Physioal Hibrobt of, the Jews ..... 111
V. - Thi Cadcabiat Trphe cabried thhovoh Eatptias Moyuymia ..... 141
VI. - apmicar Trims. ..... 180
VII. - Eoypt and Eotptians. [Four lithographic Plates.] ..... 210
v VIIL - Nzgro Tipas ..... 246
LX. - Aymicat and other Typer - Abomonal Races of Ampiga ..... 272
X - Excerpfi pron Morton's minditid Mantagoppa ..... 298
 contributed by Wilmay Isher, M. D. ..... 827
XII. - Hybidity of Anisiala, vispiti im Conneotion fith the Natural Higtobt of Maneimd - bi J. C. Nott ..... 872
XIII. - Comparatifi Anatomy or Raden - by J. C. Nott ..... 411
PARTII.
Pala
 ..... 468
Sect. A. - avalitis of the Hebief Nommolutuap. ..... 469
B. - Obberfafyors on, the ansexid Genealogical tablead
or tha "Sons or Noar". ..... 651
Gerealogical Tasleau. ..... 652
C. - Obaritations on tiz accompanying "Map of the World" ..... 552
Lithographic tinted Map, exhibiting the Countries more or less lnown to the ancient Writer of Xth Genesia ..... 552
D. - Tei Xth Cgaptre of Genebis moderized, in ith Nomer- clatobe, to dibplay poptlable, and in modenn Efolish, the Mieaming of its agcient Whiter.. ..... 558
IV. - Brbwicar Ethmooraphy: -
Sect. E. - Trbma, divitergal and hpecifio ..... 557
F. - Stectione of Geisesis I., II., akd III. ..... 501
Q. - Coshas-Indicopletgetss ..... 608
Coneas's Map [mood-all] ..... 669
H. - Antigoity of the Name "ADam". ..... 572
PART III. - Supplement - by Geo. R. Gifonon,
Egbay I. - Abcheological Intmoduction fo the Xth Chaptra of Gengeig. ..... 575
II. - Palegomapic Excorsos on the Abt of Weitikg. ..... 628
Table - "Theory of the Order of Development in Human Writings". ..... 630
III. - Manelad's Canonologt: -
Istroductont ..... 653
Cabonology - Eopptlas. ..... 667
Chinger. ..... 689
Asstalan. ..... 697
Hederim. ..... 702
Hisdoo. ..... 716
APPENDIX I. - Notrs asid Rpygherces to Pabts I. ard II. ..... 717
IL - Alphabetical Libt of Spbschibses to "Tipes of Mayeind"... ..... 731

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# SAMUEL GEORGEMORTON. 

BY HENRY B. PATTEREON, M.D.,

$\div$
EMERITUS PROFIASOR OF MATEBIA MADICA AND TEERADEOTICA IM THE MEDICAL DEPABTYEST OP



When the authors of the present work, pressed with the lahor of preparing for the printer their ahundant materials, first suggested that I should assist them hy furnishing a notice of the scientific life of our deceased friend and leader in Ethnology, I hesitated somewhat to undertake the task, feeling that the selection, dictated hy their partial friendship, might by others be deemed inappropriate, and myself considered deficient in those relations which would warrant the assumption of the office. Subsequent reflection, however, convinced me that an acquaintance of fifteen years, approaching to inti-macy,-frequent professional and social intercourse,-my position in the Medical Faculty, that was founded mainly by bis labors,- devotion in a great degree to the same studies, - community of sentiment in regard to the topies of most intereat to both, -that all these combined to constitute $\mathfrak{a}$ sufficient reason why I should freely accept the duty assigned me. I do it cheerfully, for to me it is a grateful duty and $a$ source of plensure, thus to be allowed to bear testimony to the worth and serviccs of the great and good man whom we all had so much cause to love and honor. IIs life I do not propose to write. There is but little in the quiet daily walk of any civilian, to furnish a theme for biographical narrative. Tbat of Morton was emineutly placid and regular; and all that can be said upon it has alrendy been well and eloquently expressed in the ahle addresses of Professors

Meigs, Wood, and Grant.* To Dr. Wood also we are indebted for his exposition of Morton's eminent services to medical science, both as a teacher and writer; a point too frequently overlooked in regarding him in the more prominent light of a Naturalist. Passing over these topics, my ohject will be to consider mainly his contrihutions to Natural Science, and especially to Ethnology. As introductory to a work upon anthropological subjects, we desire to present Morton as the Anthropologist, and as virtually the founder of that achool of Ethnology, of whose views this book may be regarded as an authentic exponent.

Let me he permitted, however, a few words in relation to the personal cbaracter and private worth of Morton. At tho mention of his name there arise emotions which press for utterance, and which it would do violence to my feelings to leave unexpressed. If I have felt this affection for him, it is only what was shared by all who knew him well. What was most peculiar in him was that magnetic power by which he attracted and hound men to him, and made them glad to serve him. This influence was especislly manifested, as I shall have accasion to ohserve again, in the collection of his Cabinet of Crania. In looking over his correspondence now, it is surprising to see the number of men, so different one from another in cuery respect, who in all quarters of the globe were laboring without expectation of reward to secure a cranium for Morton, and to read the reports of their varied successes and disappointments. In his whole deportment, there was án evident singleness of purpose and a candor, open as the day, which at once placed one at his easc. Combined with this was a most winving gentleness of manner, which drew one to him as with tbe cords of brotherly affection. He possessed, moreover, in a remarkable degree, the faculty of imparting to others his own enthusiasm, and filling them, for the time at least, with ardor for his own pursuit. Hence, in a measure, his success in enlisting the numerous collaborators, so necessary to him in his peculiar studies. It may be affirmed that no man ever came within the sphere of his influence without forming for him some degree of

[^1]personal attachment. His circle of attached friends was therefore large, and the expression of regret for his untimely loss general and sincere.

It was in London, and. while seated at the hospitahle hoard of Dr. Thomas Hodgkin, (to whom I had heen introduced by a letter from Morton,*) that I first heard the ncws of his decease. He was the subject of an auimated and interesting conversation at the moment, (for Dr. H. and he had been classmates at Edinhurgh,) when a gentleman entered with an American newspaper received hy the morning's mail, and containing the sad intelligence. A cloud came over every countenance, and every voice was raised in an exclamation of sudden grief and regret; for he was more or less known to all present. My next appointment for that day was with Mr. S. Birch, of the Archæological department of the British Museum, who had been a correspondent of Morton, and coald appreciate his great worth. During the day, M.r. Birch or myself mentioned the melancholy tidings to numerous gentlemen, in various departments of that great institution, and always with the same reply. All knew his name, and felt that in his deccase the cause of sciehce had suffered a serious deprivation.

And this seemed to me his true fame. Outside the walls of this nohle Temple of Science rolled on the turmoil of the modern Bahylon, with its world of husiness, of pleasure, and of care, to all which the name of Morton was unknown, and from which its mention could call up no response. Within these walls, however, aud among a hody of men whom a more than princely muaificence caables to devote themselves to lohor hike his own, he was universally recognized and approciated, and mourncd as a leading spinit in their cosmopolite fraternity. But always there was this peculiarity to he noticed, that wherever a man had known Morton personally at all, he mourned not so much for the uutimely extinction of an intellectual light, as for the loss of a beloved personal friend. Certainly the man who inspired others with this feeling, could himself have no cold or empty heart. On the contrary, he orerflowed

[^2]with all kindly and gentle affections.' Quiet and unobtrusive in manners, and fond of the retirement of study, it was only in the privacy of the domestic circle that he could he rightly known; and those that were privileged to approach nearest the Sanctum Sanctorum of his hapry home, could best sce the full beauty of his character. That sacred veil cannot he raised to the public eye, hut bencath its folds is preserved the pure memory of one who illustrated every relation of life with a new grace that was all his own, and who, in departing, has left behind him an impression on all hearts, which not the most exacting affection could wish in any respect other than it is.

The early training of Morton was in strict accordance with the principles of the Society of Friends, of which his mother was a member. His school education-whose deficicucies he always mentioned with regret, and remedied hy sedulous labor in after ycars - was throughout of that character, and had all the consequent merits and dencrits. It is a system which represses tho imagiuation and sentiments, while it cultivates carefully the logical powers; and which strives to turn all the energies of the pupil's mind toward the useful arts, rather than what may be deemed merely omamental accomplishments. When it carrics him beyond the rudiments, it is usually iuto the higher mathematics and mechanical philosophy. Its aim is utility, even if neccessary at the expense of beauty. It therefore docs not generally encourage the study of the dead languages, with its incidental belles-lettres adrantages, and free access to pocts and rhetoricians. This plan of education I believe to be an unsuitable, and eren an injurious one for a youth of cold temperament and dull seusibilitics. When, however, the subject of its operation is one of opposite tendencies, so decided as to be the better for repression, it may become not only useful, but the best training for that particular case. Such 1 conceive to have been tho fact in regard to Morton. Endowed by nature with a delicate and sensitive temperament, with warm affections, a keen sense of natural beauties, a fertile imagination, and that nice musical appreciation which made him delight in the accord of measured sounds, he had an early passion for poctical reading aud composition. Even in boyhood he wrote very creditable verses; and his later productions, - for he continued to indulge the muse occasionally to the end of his life, although he woutd not publish, - often rose considerably above mediocrity:

The following lines may answer as an average specimen of his easy flow of versification, as well as of his youthful stgle of thought and feeling. They were written on the occasion of a visit to Kilcoleman Castle, county Cork, Ircland, where Spenser lived, and is believed to have written his immortal poem.

## LINES

WHITTES ON A BLANE LEAF OF APENGEB's "PAERT QEEENE."
1.

Through many a winding maze in "Frery Lande"
0 Spenser! I have followed theo along;
Aye, I bave laughed and sigh'd at thy command, And joy'd me in the magic of thy song: Wild are thy numbers, but to them belong The fire of Genius, and poetic skill; 'Tis thine to paint with inspiration strong, The fate of knight, or dame more knightly still, To amay the feeling heart, and rouse it at thy will.

## II.

And masing still upon the fairy diream, I sought the hall oft trod by thee before; I bent me down by Mulls's gentle atream, And, lookiog far beyond, gazed fondly o'er Old Ballyhoura, where in days of yore Thou watch'd thy flocks with sll a shepherd's pride; And fancy listened as to eatch once wore Thy Hspp's lov'd echo from the monatain side,But ak! no harp is heard in all that region wide!

## III.

The flocks are fled, and in the enchasted hall No voice replies to voice; hut there ye see The ing clasp the and and mouldriag wall, As if to twine a votive wreath for thee: All - all is desalate, - and if there be A lodely sound, it is tho raven's cry ! Let years roll ob, let wasting ages flee, Let earthly things delight, and hasten hy, But thy immortal name and song sball never die!

Mad this inherent tendency been fostered, he would doubtless have taken a high rank among our American poets. Certainly he would have been another man than we have known him. Perbape his nervous temperament, delicate fibre, acute feelings and ardent sympathies, might have heen developed into the same super-sensitiveness we have soen in John Keats and other gifted minds of a constitution similar to his own. But the tendency was checked and repressed from the outset by his domeatic influences, by his teachers, and subsequently by bimself. When he devoted himelf to a life of science, be was camest to cultivate that style of thought and compositiou which accorded with his pursuits; for only by severe mental disciphine, and long-continued effort, could be have acequired that cau-
tion and rigid accuracy of diction, which characterize his produc, tions. His school appeare to have been unsatisfactory to him, for he never had a fondness for the mathematics, the main topic of study. He was nevertheless of a studious turn, reading industriously, and with special interest, all the works on History to whicb he had access. It is prohable that in these readings was laid the foundation of a taste for those anthropological studies which have since rendered hin famous, and in the prosecution of which his extensive historical knowledge gave him eminent facilities.

At the same time probahly he imbihed his first fondness for Natural Science. From his stepfather, (for his mother married again when he was thirteen ycars old,) he derived a taste for and knowledge of mineralogy and geology, the first hranches to which he tarded his attention.

Destined originally for mercantile pursuits, young Morton soon found the atmosphere of the counting-house uncongenial to him. Ife resolved to adopt the medical profession, which was indecd the only course open, to one of his tastes, and in his circumstances. The Socicty of Friends, hy closing the Pulpit and the Bar against the able and aspiring among its youth, has given to Medicine many of its brightest ornaments, both in Great Britain and in this country. This fact will serve to explain the great success of so many physicians of that persuasion, as well as the preponderating influence of the medical profession in all Quaker neighborhoods. May not the eminence of Philadelphia in medicine be accounted for, in part at least, in the same way? Carlyle has said that to the amhitious fancy of the Scottish achoolboy "the highest style of man is the Christian, and the highest Christian the teacher of such." IFence his ultimate napiration is for the clerical position. But to the aspiring youth among Friends there is hut the one road to intellectual distinction, that is through medicine and its cognate sciences. The medical preceptor of Morton was the late Dr. Joseph Parrish, then in the height of his popularity. Elevated to his prominent position against enrly obstacles, and solely hy force of character, industry, and prohity, he was extensively engaged in practice ; and, although unconnected with any institution, his office overfowed with pupils. Mis mind was practical and thoroughly medical, and so entircly did his profession occupy it, that he seemed to me never to nllow himself to think upon other topics, except religious ones, in which also he was decply interested. A strict and conscientious Friend, he illustrated all the best points in that character. As the remarkable graces of his person proverhially gave a heauty to the otherwise ungainly garb of his sect, and rendered it attractive upon him, so the graces of his spirit, obliterating all that might otherwise have been harsh or angular, contri-
bited to form a character gentle, kindly, lovely, that made him the light of the sick chamber, and a comforting presence at many a dying bed. To no member of our profession could the proud title of Opifer be more truly applied, for his very smile brought aid to the suffering, and courage to the despondent. The reader will pardon me this digression; but as the Highland clansman could not pass hy without adding another stone to the monumental cairn where reposed his departed chief, so can I never pass hy the meution of his name without offering some tribute, however humble, of reverence and respect, to the memory of my excellent old master. Such was the teacher from whom mainly Morton also received the knowledge of his profession ; though, had the influence of Dr. Parrish alone controlled his mind, it would have heen confined rigoroualy to the channels of parely medical study and investigation. But, in order to provide adeqnate taition for his numerous pupils, Dr. Parrish had associated with himeelf several young physicians as instructors in the various branches. Among them was Dr. Richard Harlan, then enthusiastically devoted to the study of Natural History, between whom and the young student there was soon established a bond of sympathy in congeniality of pursuits. That the friendship thus originated was suhsequently interrupted, was in no manner the fault of Morton, to whom it was always a subject of regret. Harlan has now heen dead some jears, and although hy no means forgotten in the world of science, he has not heen accorded the full measure of his merited distinction among American uaturalists. An unfortunate infirmity of temper, which was not at all calculated to conciliate attachments, hat rather the reverse, deprived him of the band of friends who should have watched over his fame, and so his memory has suffered by default. Yet at one period he was the leading authority on this side the Atlantic in certain departments of Zoology. By him Morton appears to have heen introduced to the Academy of Natural Sciences, in whose proceedings he was afterwards to take such an important part. He attained his majority in'January 1820, received his Diploma of Doctor of Medicine in Mareh, and was elected a memher of the Academy in April of the same year. He had probably taken an active interest in its affairs hefore this time, although not eligible to membership by reason of age; for in one of his later letters now before me, he speaks of it as an institution for which ho had labored, "boy and man," now some thirty years.

Soon after this last event he sailed for Europe, on a visit to his ancle, James Morton, Esq., of Clonmel, Ireland, a gentleman for whom he always preserved a high regard and grateful affection. Hia transatlantic friends seem to havo attached but little value to an

American diploma, and desired him to possess the honors of the University of Edinburgh, then but little passed beyond the zenith of its glory. After spending the summer at his uncle's house, he went to Edinburgh, where he heard the last course of lectures, delivered by the claste and classical Gregory. The American sehools not being recognized by the University as ad eundem, he found himself obliged to attend the full term of an under-graduate. This would have left him ample leisure as fur ns his mere college studies were concerned; for the youth who had graduated with approbation under the tuition of Wistar, Physick, aud James, and their comperers, could not have fallen far short of the requisitions of any other Medical Faculty in Christendom. But his time was not spent in idleness. He sedulously cultivated his knowledge of the elassical tongues, hitherto imperfect, and he devoted himself to the study of French and Italian, both of which languages he learned to read with facility. He also attended with great interest the lectures of Professor Jameson on Geology, thus confirming and reviving his carly fondness for that branch of science. After his return to Americn, he presented to the Acadeny a scries of the green-stone rocks of Scotland, and a section of Salishury Craig near Edinburgh, colleeted by himself at this time. In October 1821, he visited Paris, and spent the winter there mainly in clinical study. The next sammer was devoted to a tour in Italy and other portions of the continent, and in the fall he returned again to Edinburgh, where, after attendance upon another session, he received the honors of the doctorate. IIis printed thesis* may be taken as a fnir exponent of his mental condition and calibre at this feriod. It is very like himself, and yet with a difference from him as we knew him later in life. It is quiet and iudecd even simple in tone, without affectation and without any of the declamation in which young writers are so apt to indulge. Its style is clear and sufficiently concise, and as a piece of Latinity it is correct and graceful. It takes up the sulject of bodily pain, and considers it in regard to its causes, its diagnostic value, and its effects, both physical and psychical, leaving very little more to be said with regard to it. But it is evident throughout that the essay is the production of one who is more ambitions of the reputation of the litterateur than of the savant; who writes,-and that probably marka the distinction, - with his face turned to his auditory rather than to his subject. The sentence marches sometimes with' a didactic solemnity almost Johusonian, while the frequency of the poctical references and quotations,-Latin and Italian as well as English, —and the facile fitness with which they glide iuto

[^3]the text, show how familiar they must have been to the mind of the author. Indeed Edinburgh was, at the period in question, the principal centre of thste and philosophy, as well as of aciouce, in Great Britain; and it is not likely that one of Morton's literary turn and studious babits would miss the opportunity to pasture in either of these rich fields. The ethical tone of this production is also worthy of note. It is characteristic of the writer, and grew in a great measure out of his mental constitution, which, free from all violence of passion, was habitually cheerful, hopeful, and kindly. Hence comes that beautiful spirit of philosophical optimism, which, perceiving in all seeming evil only the means to $n$ greater nltimate good, nttaius all that stoicism proposed to itself, hy tbe shorter way of a cheerful and unquestioning resiguntion to the Divine Will, not because it is omnipotent and irresistihle, but solely because it is the wisest and best. The following extracts will sufficiently explain my meaning :-
"Alma rerum Parent nil frustra fecit; ne dolor quidem absque suis unibus eat; et eemper cogimur eum agnoscere veluti 5 delem quamvis ingratum monitorem, et quoque inter presidia vita noanunquam aumerandam." - (p. 9.)
"Dolor enim nos nascentes aggreditur, per totam vitam ingidiosus comitatur, et quasi nanquam satiandus; sdest etiam morientibus, boramque supremam angoribus inlestat. At ego tamen Dolorem, quanquam invisum, et ab omnibus, quantum fieri potest, ab ipsia eemotum, non omnino inutilem depinci, sed potius eum protuli, ad vitsm conservandam necassurium, a Deo Optmo Maximo constitutum." - (p 37.)

This conviction animated Morton throughout his life, consoled him in suffering, cheered him iu sickness, and gave to his deportment much of its ealm and beautiful equanimity.*

[^4]THM BPIRIT OFDEETINT.
Bpirit of Light! Thou glance divine Of Heaven's immortal fire,
I kneel before thy hallowed ohrine To worship and admire.
I cennot trace thy glorious fitght Nor dream where thou dost dwell, Fet canst thou guard my steps sright By thine anenrthly apell
$Y$ listen for thy roice in vain, E'en when I deem thee nigh;
Yet ere I venture to complain, Thou know'st the reason why; And oft when, worldly cares forgot, I watch the recent air, I see thee not, I hear thee nothYet know that thou art there.

## xxvi

Ii 1824, he returned to Philadelphia, and commenced his career as a practitioner of medicine. He seems immediately to have resumed his place and labors in the Academy of Nataral Sciences, which, in the next year, was deprived of the active services of some of its moat efficient members, by the removal of Messrs. Maclure, Say, Troost, Lesueur, and otbers, to New Harmony, whither they went to participate in the benevolent but ill-starred social experiment of Robert Owen. It was a pleasant dream of a good heart and a visionary brain, and has now faded away from every one but the originator, who holds it still in bis extreme old age with the same ferror as in his ardent youth; but then it had many firm believers. So enthusiastic was Maclure especially in ite advocacy, that he declined about this period to assist the Academy in the erection of a new Hall, from a conviction that, in the reorganization of society, living in cities would be abandoued, and their edifices thus left untenanted and useless. One cannot imagine a body of more simple-hearted, less worldly, and less practical men, than the Philadelphia naturalists wbo went to reconstitute the framework of society on the prairies of Indiana; and it is impossible to repress a amile at their Quixotism, even while one heaves a sigh for the bitterness of their disappointment.
They left in $\mathbf{1 8 2 5}$, and the first papers of Morton were read in 1827. His main interest still seems to have been in Geology. In the year mentioned he published an Analysi8 of Tabular Spar from Bucks County, and the next year some Geological Observatione, based upon the notes of his friend, Mr. Vanuxem. About this time his attention was turned to the special department of Palæontology, by an examination of the organic remains of the cretreeous formation of New Jersey and Delaware ; and with this his active scientific life may be regarded as commencing.
Some few of the fossils of the New Jersey marl had been noticed by Mr. T. Say, and by Drs. Harlan and Dekay ; but no thorough investigation of this interesting topic was attempted until Morton assumed the task. He labored in it industriously, heing assisted in the collection of materials by his scientific friends. Three papers on the subjeet were published in 1828, and from this time the series was continued, either in Silliman's Journal or the Journal of the Aca-
demy, until it closed with the fourteenth paper in 1846. In 1894, the, results then obtained were collected and published in a volume illustrated with nineteen admirable plates.*

This book at once gave its author a reputation and status in the acientific world, and called forth tbe warm commendations of Mr. Mantell and otber eminent Palæontologists. It traces the formation in question along the borders of the Atlantic and the Gulf of Mexico from New Jersey to Louisiane, following it by the identificstion of its organic remains. The great body of the work is original, scarcely any of the species enumerated having ever been noticed before. Subsequent researches enabled him to add considerably to this collection, and, among others, to describe a spocies of fossil crocodile (C. clavirostris) entirely new and differing considerably in structure from its congeners hitherto known. In regard to the fossils of the cretaceors series, he is still the principal authority.

Nor was be neglectful of the other hranches of Natural Science, although too well aware of the value of concentrated effort to peril his own success, by a too wide diffusion of his labors. Still he muintained a constant interest in the operation of every departanent of the Academy, and watched its onward progress with solicitude and satiafaction. To the Geological and Mineralogical, and especially to the Palæontological collection, he was a liberal contributor. Among the papers read by him before the Academy was one in 1831 on "some Parasitic Worms," another in 1841, on "an Albino Racoon," and a third in 1844, on "a supposed new species of Hippopotamus." This animal, which has been called $H$. minor vel Liberiensia, was entirely unknown to Zoology until described by Morton, who received its skull from Dr. Goheen, of Liberia, and at once recognized its diversity from the known species. $\dagger$ Notwithstanding the published opinion of Cuvier, that the field of reaearch was exhausted in regard to the Mammalie, our gifted townaman was enabled to add an important pachyderm to the catalogue of Mammalogy, and that too from the other hemisphere.

Let it not he supposed that, smid these absorbing topics of research, he relaxed for a moment his atteution to his professional pursuits. On the contrary, be was constantly and largely engaged in practice, and, at his decease, was one of the leading practitioners of our city. Neither did be allow himeelf to fall behind his professional colleagues in the literature of medicine. He was among the first to introduce on this side the Atlantic the physical means of diagnosis in

[^5]thoracic affections. He was also one of the earliest investigatora of the morbid anatomy of Phthisis Pulmonalis; and his volume on that subject, although superseded by the later and more extensive researches of the French pathologists, is a monument of his industry and accuracy, and a credit to American medicine.* He also edited Mackintosh's Practice of Physic, with notes, which add materially to its value to the American physician. $\dagger$ In 1849, he published a textbook of anatomy, remarkable for its clearness and succinctness, and the beauty of its illustrations. $\ddagger$ He was early selected hy Dr. Parrish as one of his associates in teaching, and lectured upon anatomy iu that connexion for a number of years. He subsequently filled the chair of anatomy in the Medicsl Department of Pennsylvania College from 1839 to 1843 . As a lecturer he was clear, calm, and selfpossessed, moving through his topic with the easy regularity of one to whom it was entirely familiar. He served for several years as one of the physicians and clinical teachers of the Almo-house Hospital, and it was there that most of his researches on consumption were made. He was a Fellow of the College of Physicians, but did not take an active part in their proceedings, from the fact that their stated meetings occurred ou the same evenings as those of the Academy, where he felt it his first duty to be. His only contribution to their printed Trausactions is a biographical notice of his valued friend, Dr. George McClellan, prepared hy request of the College.

We now come to a portion of his scientific labors, upon which I must be allowed to dwell at greater length. I refer of course to his researches in Anthropology, commencing with what may be desiguated Comparative Cranioscopy, and running on into general Ethnology. The object proposed primarily being the determination of cthnic resemblances and discrepancies by a comparison of cranin, (thus perfecting what Blumenbach had left lamentably incomplete,) the work could not be commenced until the objects for comparison were brought together. The results of Blumenhach were invalidated by the small number of specimens generally relicd upon by him; for in a case where allowance is to be made for individual peculiarities of form and stature, the conclusions gain infinitely in value by extension of the comparison over a sufficient series to neutralize this disturbing element. There was therefore necessary, first of all, a

[^6]collection of crania, and that not of a few specimens, but widely enough extended to give reliable results. The contemplation of these facts shows the magnitude and boldness of the plan, which would have sufficed to deter most men from the nttempt. But Morton was not easily discouraged, and although he doubtless oceupied a wider field in the end than he proposed to himself in the outset, it is evident that from the beginning he contemplated a full cabinet of universal Craniology, IIuman and Comparative. His own necount of the commencement of the collection is as follows: "Having had occasion, in tho summer of 1830 , to deliver an introductory lecture to a course of Anatomy, I chose for my suhject The different forms of the skull as exhibited in the five races of men. Strange to say, I could neither buy nor borrow a cranium of cach of these races; and I finished my discourse without showing either the Mongolian or the Malay. Forcibly impressed with this great deficiency in a most important branch of science, I at once resolved to make a collection for myself."* Dr. Wood (Memoir, p. 13,) states that he engaged in this study soon after be commeuced practice; and adds, "among the earliest recollections of my visits to his office is that of the skulls he had collected." The selection of the topic above-mentioned shows that he was already interested in it.

The increase was at first slow, but the work was persevered in with a constancy and energy that could know no failure. Every legitimate means was adopted, and every attainable influence brought to bear upon the one object. Time, lahor, and moncy, were expended without stint. The enthusiasm he felt hirnself he imparted to others, and he thus cnlisted a hody of zealous collaborators who zought contributions for him in every part of the world. Many of them sympathized with him in his scientific ardor, and quite as many were actuated solely by a desire to serve and oblige the individual. A friend of the writer (without any particular scientific interest) exposed his life in robhing an Indian burial-place in Oregon, and carried his spoils for two weeks in his pack, in a highly unsavory condition, and when discovery would have involved danger, and prohably death. Before his departure he had promised Morton to bring hitn some skulls, and he was resolved to do it at all hazatds. This eftort also involved, of course, a very extensive and laborious correspondence. He was in daily receipt of letters from all countries and from every variety of persons. It was mainly by the frec contrihutions of these asistants that the collection eventually grew so rapidly. Among the

[^7]contributors I may mention William A. Foster, Esq., as presenting 135 specimens, Dr. J. C. Cisneros 53, and Dr. Ruschenberger 39. George R. Gliddon, Esq. presented 30, beside the 187 originally procured by his agency ; William A. Gliddon, Esq., 19; M. Clot-Bey 15; and Professor Retzius 17, with 24 more received since the death of Dr. M. Over one hundred gentlemen are named in the catalogue as contributing more or less, sixtyseven of them having presented one skull each. It is not to be supposed, however, that even the portion thus given led to no outlay of means. The mere charges for freight from distant portions of the globe amounted to a considerable sum. Dr. Wood (loc. cit.) estimates the total cost of the collection to its proprictor from ten to fifteen thousand dollars. At this moment it is undoubtedly by far the most complete collection of crania extant. There is nothing in Europe comparable to it. I have recently seen a letter from an emineat British ethnologist, containing warm thanks for the privilege even of reading the catalogue of such a collection, and adding thast he would visit it anywhere in Europe, although be cannot dare the ocean for it. At the time of Dr. Morton's death it consisted of 918 human crania, to which are to be added 51 received since, and which were then on their way. The collection also contains 278 crania of mammals, 271 of hirds, and 88 of repties and niehes:-in all, 1656 akulls! I rejoice to state that this magnificent cahinet has been secured to our city by the contribution of liberal citizens, who have purchased it for $\$ 4,000$, and presented it to the Academy.

Simultaneously with his accamulation of crania, and based upon them, he carried on his study of Ethnology, if I may use that term in reference to a period when the science, so called at present, could scarcely be said to exist. Indeed it is almost entirely a new acience within a few years. While medical men occupied themselves exclusively with the intimate structure and function of the humsn frame, no investigator of nature seemed to turn his attention to the curious diversities of form, feature, complexion, \&c., which characterize the different varieties of men. With a very thorough anatomy and physiology, our descriptive history of the human species was less accurate and extensive than that of most of the well-known animals. So true was this that Buffon pithily observed that "quelque interét que nous ayons a nous connaitre nous mêmes, je ne sais si nous ne connaissons pas mieux tout ce qui n'est pas nous." But every hranch of this interesting investigation has recently received a sudden and vigorous impulse, and there has grown up within a few years an Ethnology with numerous and devoted cultivators. That it still has much to accomplish will appear from the number of questions which the pages
of this book show to be still sub judice. Indeed it is the widest and most attractive field open to the naturalist of to-day. To quote the admirahle language of Jomard:

[^8]The attempt to establish a rule of diversity among the races of men, according to cranial conformation, commenced in the last century with Camper, the originator of the facial angle. The subject was next taken up by Blumenbach, who has been until recently the controlling authority upon it. His Decades Craniorum, whose puhlication was hegun in 1790, and continued uutil 1828, covers the period when Morton hegan this study. His method of comparing erania, (by the norma verticalia,) and his distribution of races, were then both undisputed. The mind of the medical profession in Great Britain and in this country had then, moreover, been recently attracted to the subject by the publication (in 1819) of the very ahle book of Mr. Lawrence, $\dagger$ avowedly based upon the researches of the great Professor of Göttingen. Dr. Prichard had puhlished his Inaugural Dissertation, De Hominum Varictatibus, in 1808, and a translation of the same in' 1812, under the title of Researches on the Physical History of Man, constituting the first of a series of publications, afterwards of great influence and value. Several treatises had also been published with the intention of proving that the color of the negro might arise from climatic influences, the principal work being that of President Smith, of Princeton College, New Jersey: Beyond this, nothing bad been done for the science of Man up to Morton's return to this country in 1824. A new impetus bad been given, however, to the speciality of Craniology by the promulgation of the viows of Gall and Spurzheim, then creating their greatest excitement. These distinguisbed persone completed the publication of their great work at Paris in 1819, hoth

[^9]before and after which time Sparzheim lectured in Great Britain, making many proselytes. The phrenologists of Edinburgh mast have been in the very fervor of their firat love during Morton's residence there, and they included in their number some men of eminent ability and eloquence. Collections of prepered crania, of casts and masks, became common; but they were brought together in the hope of illustrating character, not race, and were prized according as fanciful hypothesis could make their protuberances correspond with the distribution of intellectual faculties in a most crude and harren psychology. Morton's collection was ethnographic in its aim from the outset; nor can I find that he ever committed himself fully to the miscalled Phrenology - a system hased upon principles indisputably true, but which it holds in common with the world of science at large, while all that is peculiar to itself is already fading into oblivion.*. Attractive by its easy comprebensibility and facility of application, it acquired a sudden and wide-spread popularity, and so passed out of the hands of men of science, step by step, till it has now hecome the property of itinerant charlatans, deacribing characters for twentyfive cents a head. The very name is so degraded by these associations, that we are apt to forget that, thirty years ago, it was a scientific doctriue accepted by learned and thoughtful men. There can be no doubt tbat it had its effect (important though indirect) upon the mind of Morton, in arousing him to the importance of the Craniology about which everybody was talking, and leading him to roake that application of it, which, although neglected by his professional brethren, was still the only one of any real and permanent value.

It is evident that the published matter for Morton's studies was very limited. A pioneer himself, he had to resort to the raw material, and obtain his data at the hend of netore. Fortunately for him he resided in a country where, if literary advantages are otherwise deficient, the inducement and opportanities for anthropological research are particularly abundant. There are reasons why Ethnology should be eminently a science for American cnlture. Here, three of the five raccs, into which Blumenbach divided mankind, are brought together to determine the problem of their deating as they best may,

[^10]while Chinese immigration to California and the proposed importation of Coolie laborers threaten to bring us into equally intimate contact with a fourth. It is manifest that our relation to and mbnagement of these people must depend, in a great measure, upon their intriusic race-character. While the contact of the white man seems fatal to the Red American, wbose tribes fado away before the onward march of the frontier-man like the snow in spring (threatening ultimate extinction), the Negro thrives under the shadow of his white master, falls readily into the position assigned him, and exists and multiplies in increased physical well-being. To the American statesman and the philanthropist, as well as to the naturalist, the study thus becomes one of exceeding interest. Extraordinery facilities for observing minor sub-divisions among the families of the white race are also presented by the resort hither of immigrants from every part of Europe. Of all these adventages Morton availed himself freely, and soon became the acknowledged master of the topic. Extending his atudies begond what one may call the zoological, into tho archeological, and, to some extent, into the philological department of Ethnography, his pre-eminence wis speedily ackoowledged at home, while the publication of his books elevated him to an equal diatinction sbroad. Professor Retzius of Stockholm, writing to him April 3d, 1847, says emphatically: "You have done more for Ethnography than any living physiolagist; and I hope you will continue to cultivate this science, which is of so great interest."
'The firat task proposed to himself hy Morton, was the examination and comparison of the crania of the Indian tribes of North and South America. His special ohject was to ascertain the average capacity and form of these akulls, as compared among themeelves and with those of the other races of men, and to determine what ethnic diatinctions, if any, might he inferred from them. The result of this lshor was the Crania Americana, puhlisbed in 1839. This work contains admirably executed lithographic plates of numerons crania, of natural size, and presenting a highly creditahle specimen of American art. The letter-press includes accurate admeasurenents of the crania, especially of their interior capacity; the latter being made by a plan peculiar to the anthor, and canabling him to estimate with precision the relative amount of brain in various races. The introduction is particularly interesting, as containing the author's general ethnological views so far as matured up to that time. He adopts the quintuple division of Blamenhach, not as the best possible, bat as sufficient for bis purpose, and each of the five races he again divides into a certain namber of cbaracteristic families. His msin conclusions concerning the American race are these:
" 1et. That the Amerionn raoe differs enontally from all others, not excopting the Mongolian; nor do the feetle analogien of lengrage, and the more obvious onea in sivil sud religione institutions and the arts, denote anything beyond casaal or colonial commapication with the Asiatio nations; and even thane analogies may perbaps be accounted for, an Humbeldt has suggened, in the mere coinoidence ariofing from similar wants and impolses in netions inhabiting similer latitodes.
" 2 d . Tbat the American pations, excepting the polar tribes, wre of one race and one species, but of two great families, which resemble anch other in ${ }^{*}$ physical, bat differ in intellectual character.
"8d. That the cranial remains diecorered in the mounda from Pera to Wieconsin, belong to the same race, and probably to the Toliocan family."

The publication of a work of auch costly character, and necessarily addressed to a very limited number of readers, was a bold undertaking for a man of restricted means. It was publisbed by himself at the risk of considerable pecuniary lose. The original subscription list fell sbort of paying the expense, but I am happy to say that the subsequent sale of copies liquidated the deficit. The reception of the book by the learned was all he could have desired. Everywhere it received the warmest commendations. The following extract from a notice in the London Medico-Chirurgical Review for October 1840, will show the tone of the British scientific press:
"Dr. Morton's method end ilustrations in eliciting the elements of his magnificent Craniograpby, are admirably concise, whout being the lesa ingtructively comprehensive. His work conatitutes, and will ever be highly eppreciated as constitating an exquisito treasary of facts, well adapted, in all reppoots, to eatablich permenabt organic principles in the natural history of men."
"Here we finish oar account of Dr. Morton's Americes Cranjosoopy; and by ive extent and copiousaess, our article will thow how bighly wo have appreciated his classical production. We beve studied bis riews with sttention, sod examined his doctrines with fairpens ; and with perfect sincerity in' rising from a task which has afforded unusual gratifoation, we rejoioe in raking his 'Grania Amorioans' in the bighest cless of transatlantle literstare, foreseeing distinctly that the book Fill ensure for ite anthor the woll-aarned meed of a Caucesian reputation."

From among the warmly eulogistic letters received from distinguished savare, I select but one, that of Baron Humboldt, who is himself a high authority on American subjects.
"Monsieur,-Les liens intimes d'interet et d'affection qui m'sttachent, Monsienr, depais un déni-sibcle a l'hemirphère que roue babitez et dant j'ai la vanito de me craire citoyen, ont gjoutéa l'impression que m'ont fait preaque a le fois votre grand ouvrage de physiologie philosophique et l'admirable biatoire de le conquéte du Mexique par M. Filliam Prescott Voile de ces travauz qui étendenth par des moyens très differens, la sphère de nos condsismances et de nof vaes, et ajoctent \& le gloire nationale. Je ne puis yous exprimer eboer rivement, Monsiear, in profonde resonnaisenoe que je vass dois. Américain bien plas que Siberien d'apres la couleur de mes oplnions, je suis, a mon grand age, aingalitrement flatte de l'interft qu'on me conserve encore de l'autre coté de le grand rallee atuntique aur lequelle le vapsur a preaque jetó un ponl Les richesses arsdiologiqure que vorn siez $6 t 6$ agese heareux de réonir, ont troure eu voua an digne iaterprets. Votre ouvrage, Monsieur, est égelemant remarqushlo par is profondeor dea raes anatomiquea, par le détail
numérique des rapports da conformation organique, par l'ebsemee des râveries poéliques qui sont les mythes de le Physiologie moderne, par les gonéralités dont rotre "Introductory Besay" abonde. Rédigeant dans de moment le plus important de mes onvragea qui eere prblis boun le titre imprudent de Kormos, jo aaurai profiter de tanta d'ereellents apperças mur lé destribution des races bumaiaea qui ee trouvent épars dens votre bean volume. Que de blarifices pécaniares n'mez rons pas dâ faire, pour atteindre ane si grande perfoction artatique et produire un ouvrage qui rivalise avec tout ce que l'on a fist de plus beau en Angleterre et en France.
"Agrés, je vous mopplie, Monsieur, l'hommago repouvelle de ls hente consideration syec lequelle j'ai l'honneur d'âtre,
" Mongienr, votre tres-homble et treo-obeinent perviteur,
"Alemandin Humbondt.
4i Berlin, eo 17 Jeavier, 1844."
The eminent success of this work determined definitely its author's alterior scientific carcer. From this time forward he devoted his powers almost exclusively to Ethnology. He sought in every direction for the materials for his inveatigation, when circumstances led to his acquaintance with Mr. George R. Gliddon, whose contributions opened to him a new field of research, and gave him an unexpected triumph. Mr. G. first visited this country in 1837 , being sent out by Mebemet Ali to obtain information, purchase machinery, \&c., in reference to the promotion of the cotton-culture in Egypt. Morton, who never lost the opportunity of securing an useful correspondent, sought his acquaintauce, but failing to meet him personally, wrote him at New York under date of Nov. 2d, 1837, inquiring his precise address, and soliciting permission to visit him in reference to business. Ilness preventing this visit, he wrote again, Nov. 7th. Tbe following extract is interesting, as displaying his mode of procedure in such cases, as well as the state of his opinions, at the date in question:-

[^11]XXXVi MEMOIR OF SAMUEL GEORGE MORTON.
glad to hare a akall of a Copt and a Fallah, and indeed of any other of the present triben in or bordering on Egypt, and which conld be probably obtained through any one of your medical friende in Csiro or Alerandris. I hope before you lespe to be able to sand you one of the lithogruphs for my Work, to prove to you that it will be no discredit to the arte of this country. Senfible bowinfintely you may serte me in a fevorita though novel inquiry, I cannot but hope to interest your feelings and exertions on this occosion, and therefort beg en early anower."

To this letter Mr. G. responded freely and cordially, readily undertaking the commission, which resulted in supplying Morton with crania, which form the basis of his renowned Crania Egyptiaca. Without the aid thus afforded, any attempt to elucidate Egyptian ethnology from this side the Atlantic would have heen absurdly hopeless; with it, a difficult problem was solved, and the opinion of the scientific world rectified in an important particular. The correspondence thus originated led to a close intimacy between the parties, which essentially modified the history of both, and ended only with life; and which resulted in a warmth of attachment, on the part of the survivor, that even death cannot chill, as the dedication of this volume attests. With the prospect of ohtaining these Egyptian crania, Morton was delighted. How much he anticipated appears from the following passage in the preface to his Crania Americana:-

[^12]The skulls came to hand in the fall of 1840 , and Morton entered eagerly upon their examination, and upon the study of Nilotic Archæology in connection therewith. Mr. Gliddon arrived in January 1842, with the intention of delivering a course of lectures in this country upon hieroglyphical subjects; and the two friends could now prosecute their studies together. They had already heen engaged in active correspondence, Morton detailing the considerations which were impelling him to adopt views diverse, in several points, from what were generally considered estahlished opinions. I regret that I have not access to the letters of Morton of this period, but the following extract from a reply of Gliddon, dated London, Oct. 21st, 1841, will show the state of their minds in regard to Egyptian questions at that time:-

[^13]theory, or the conclusion that they came down the Nile, or that 'Merswe' is the Father of Bgypt, is, I thiak, untenable, and might be refuted. Herodotus's anthority, unleas modifod in the way you mention, dark skinned and eurly haired, is in this, as in fifty other inatances, quite insignificant. We, as hieroglyphists, know Egypt better now, than all the Greek authors or the Roman. On this ground, aniess you are convinced from Comparative Anstomy, with which science I am tolally unaoquainted, and be breked by such evidence as is incontrovertible, 1 urge gour parsing, and considering why the ancient Expptians may not be of Asiatio, and perhapa of Arabic descent; an idea which, I fency, from the tenor of your letters, is your presont conclusion. At whymete, they are not, and anver Tere, Africem, still lesa Negroes. Montumental evidence appeara to overthrow the Africen theory. . . . . . . . . . . . Look at the portraits of the kings of Egypt, in the piatea of Prof. Roselini's Monumanti Storici, end then read his 2 d vol. text, st the end. They are facsimiles, and is there apgthing Arriosen in them, (ercepting in the Amunoph family, where this cross is shown and explained, until yon come dom to the Kthiopian dynanty $\dagger$ For 'Merswe' read Hoakins's Ethiopis - it is a valaabie Fork, but $I$ differ in toto from hig ahronology, or his connection between Egypt and 'Meroe' down the Nile.
"The Copts may be descendants of the ancient race, but so cronsed and recrossed, as to have lost almost every veatige of their noble ancestry. I shoold think it would be difficult, with 100 skn alla of Copts, $t o$ get at an axact oriterion, they are ao varied. Do not forget also the effect of wearing the turben on the Eastern races, except the Fellebs, who seldom asn afford it, and wear a cap.
"It bas been the fashion to quote the Sphinx, as an evidence of the Negro tendencies of ancient Egyptians. They take his wig for woolly hair - and as the nose is off, of course it is fact. But even if the face (whioh I folly admit) has a atrong African anat, it is an almoat solitary example, against 10,000 thet ure sot African. Wa may presume from the fact that the tablet found on it beare the name of the 5 th Thotmes-e. o. 1702-Roselini, No. 106-that it represente mome king, (and moat prohably Thotmes bth bimself,) who, by encestrsi intermarriage, was of African blood. In fact, we find that Amunoph 1st-a.c. 1822 —and only five removes from this same Tbotmes bis successor, had an Bthiopian wife - a black queen - 'Ashmes Nofreari.' If the Sphiax were a femsle, I should at once seg it stood for 'Nofreari,' who, as the wife of the expeller of the Hykstoo, wea moch rovered. The whole of the Thotmes and Amonoph branches had an African cant-vida Amunoph Sd-simost a Nublan: but this csat is expressly given in their portraita, in contradistinction to the mqiline-nosed and red Egyptians. Look at the Ramsea familytheir men are quite Caucsaian - thajr women are white, or only gellowiah, but I can seo nothing African. I wish I ware by gour side with my notes and rambling ideas - they sre crude, bot under your direction could be licked into shape. The masses of facts are oxtraordinary, and known hat to very, very few. Unless a man now-a-daya is a hieroglyphist, and has studied the monaments, helieve me, his authority is dangerous; and but fow inatances are there in which amongst the thousand-and-one rolvmes on Egyph, the work is not * more repetition or copy of the errore of a preceding work - and this is but repeating what the Romans never comprehended, but copied from the Greeks, who made up for their ignorance thom, as they do now, hy lies. All were deplorsbly ignorant on Egyptian matters. Anything of the Cbampotion, Rosellini, and Wilkiabou school for ancient aubjecta, is saft - for the modern, there is only Lace. I mention these anbjects just to srrest your ettention, before jou take a leap; though I bave no doubt jou leave no stone unturned. Pardon my epparent ofriotanese, bat I do this at the hazard of intruding. lest in your earnest comparisons of 'Cranie, you may not lay sufficient strese on the vast monumental oridances of days of yore, and mean this only as a 'oavent'"

But they soon found themselves in want of books, especially. of costly illustrated works. Not only was it essential to verify quotations hy reference to the text, but the plates were absolutely indispensable.

The desired books did not exist in any library in the United States, and Morton had already gone as far as pradence permitted. In a letter now before me, Gliddon writes him from New York in despair, stating that, for his part, he could not move a step further without access to Rosellini, (Monumenti, \&c.,) of which there was not a copy in the country. This serious difficulty was finally removed by the munificent liberality of Richard K. Haight, Esq., of New York, who, actuated solely by a generons desire to promote the interests of science, imported and placed at the disposal of our students the superh volumes in question.
Morton's stady now was more than ever "a place of akulls." His correspondence, having been widely extended, was at last bearing its fruit. Contributions came dropping in from various quarters, not always accompanied with reliable information, and requiring careful deliheration hefore being assigned a place in his cabinet. Nothing short of positive certainty, however, would induce him to place a name upon a cranium. The ordeal of examination each had to undergo. was rigid in the extreme. Accurate and repeated measurements of every part were carefully made. Where a case admitted of doubt, I have known him to keep the skull in his office for weeks, and, taking it down at every leisure moment, sit hefore it, and contemplate it fixedly in every position, noting every prominence and depression, estimating the extent and depth of every muscular or ligamentous attachment, until he could, as it were, huild up tbe soft parts upon their hony substratum, and see the individual as in life. His quick artistic perception of minute resemblances or discrepancies of form and color, gave him great facilities in these pursuits. A single glance of bis rapid eye was often enough to determine what, with others, would have been the subject of tedious examination. The drawings for the Crania Elgyptiaca were made by Mesars. Richard H. and Edward M. Kern,*

[^14]who were then also engaged in preparing the magnificent illustrations of Mr. Gliddon's hierological lectures; and these gentlemen have informed me that not the slightest departure from literal accuracy could escape the eye of Morton. This was true, not only of human figures, hut equally of the minutest hieroglyphic details. Dr. Meigs, in his Memoir, relates an instance of his acumen, in which, while inspecting the wgis in the hand of a female divinity, he noticed the resemhlance to the face of a certain queen, and at once referred it to that reign; which, on examining the text, proved correct. The two following anecdotes, for which I am indehted to Mr. Gliddon, resemble the wellknown instances of scientific acnteness and perspicacity that are related of Cuvier.

In the summer of 1842, Mr. G. met in New York with Mr. John L. Stephens, then recently returned from his second visit to Yucatan. The conversation turning upon crania, Mr. S. regretted the destruction of all he had collected, in consequence of their extreme brittleness. One skeleton he had hoped to save, hut on unpacking it, that morning, it wes found so dilapidated that he had ordered it thrown away. Mr. G. hegged to see it, and secared it, comminuted as it was. Its condition may he inferred from the fact that the entire akeleton was tied up in a small India handkerchief, aud carried to Philadelphir in a hat-hox. It was given to Morton, who at first deplored it as a hopeless wreck. The next das, however, Mr. G. found him, with a glue-pot heside him, engaged in an effort to reconstruct the akull. A small piece of the occiput served as a hasis, upon whieh he put together all the posterior portion of the cranium, showing it by characteristic marks to he that of an adult Indian female. From the eondition of another portion of the skeleton, he derived evidence of a pathological fact of considerable moment, in view of the antiquity of these remaine. How much interest he was ahle to extract from this handful of apparent ruhhish will appear from the following passages:-

[^15]
#### Abstract

skeleton. The skull was crushed into many pieces, but, by a cantious menipulation, Dr. Morton succeaded in reconstracting the posterior and lateral portions. The occipat is remarkably flat and vertical, while the lateral or pariotal diameter measures no leas than fre inches and eight-tenths. "A chemical examinstion of some fragments of the bonee proves them to be almost deslitute of animal matter, whioh, in the perfeot onseous atrcotare, constitutes ahout thirtythree parts in the hundred. On the upper part of the left tibis there is a bwelling of the bone, called in eurgical language a node, an inch and a half in length, and more than helf an itch above the natural sarfsce. This morbid condition may have resuited from a variety of causes, but possesses grester interest on acconnt of ita axtreme infrequency among the primitive Indian popalation of the conntry." ${ }^{\prime \prime}$


Mr. Gliddon, while in Paris in 1845-6, presented a copy of the Crania ZAgyptiaca to the celehrated orientalist, M. Fulgence Fresnel, (well known as the decipherer of the Himyaritic inscriptions, and now engaged in Ninevite explorations,) and endeavored to interest him in Morton's laburs. More than a year afterwards, having returned to Philadelphia, he received there a box from R. K. Haight, Esq., then at Naples. The hox contained a skull, but not a word of information concerning it. It was handed over to Morton, wbo at once perceived its dissimilarity to any in his possession. It was evidently very old, the animal matter having almost entirely disappeared. Day after day would Morton be found absorbed in its contemplation. At last he announced his conclusion. He had never seen a Phcenician skull, and he had no idea where this one came from; but it was what he conceived tbat a Phœnician skull should be, and it could be no other. Thinge remained thus until some six months afterwards, when Mr. Haight returned to America, and delivered to Mr. G. the letters and papers sent him by various persons. Among them was a slip in the hand-writing of Fresnel, containing the history of the akull in question. $\dagger$ He discovered it during his exploration of a Phoenician tomb at Malta, and had conaigned it to Morton by Mr. H., whom he met at Naples. These anecdotes not only show the extraordinary acuteness of Morton, but they also prove the certainty of the anatomical marks upon which Craniologists rely.

The Crania $\neq$ gyptiaca was published in 1844 , in the shape of a contribution to the Transactions of the American Philosophical Socicty. This apparent delay in its appearance arose from the author's extreme cantion in forming his conclusions, especially in view of the fact that he fonnd bimself compelled to differ in opinion from the majority of sebolars, in regard to certain points of primary importsnce. Most ethnologists, with the ligb authority of Prichard at their

[^16]head, ascribed the Nilotic family to the African race; while the great body of Archæologists were disposed to consider the ahorigines of Egypt as (prohably black) Troglodytes, from the Upper Nile, whose first halting-place and seat of civilization was at Meroë. But Morton took counsel with none of those anthorities of the day. Optimi consultores mortui; and these dead, but still eloquent witnesses of the past, taught him clearly the identity of cranial conformation in the ancient Egyptian and the modern white man. He established, beyond question, that the prevailing type of skull must come into the Caucasian category of Blumenbach. He pointed out the distiactions between this and the neighboring Semitic and Pelasgic types. The population of Egypt being always a very mixed one, he was able also to identify among his crania those displaying the Semitic, Pelasgic, Negro and Negroid forms. Turning next to the monuments, he adduced a multitude of facts to prove the same position. His historical deductions were advanced modestly and cautiously, hut most of them have been triumphantly verified. While he, in his quiet study at Philadelphia, was inferentially denying the comparative antiquity of Meroë, Lepsius was upon the spot, doing the same thing beyond the possihility of further cavil. The book was written when it was still customary to seek a foreign origin for tbe inhahitants of every spot on earth except Meaopotamia; and the anthor, therefore, indicates, rather than esserts, an Asiatic origin for the Egyptinas. But his resumé contains propositions so important, that I must claim space for them entire, taking tho liberty of calling the attention of the reader, by Italice, particularly to the last.

1. The velley of the Nile, both in Egypt and in Nobis, was originally peopled by a branah of the Caucesian race.
2. These primeval people, siace called Egyptians, Were the Mirraimites of Scripture, the posterity of Ham, and directly associated with the Libyen family of astions.
d. In their physical chareter, the Egyptians were internediate between the modern Europesin and Semitic races.
3. The Austral-Egyptian or Meroite commuaities were an Indo-Arabing stook, angrafted on the primitive Libyen inbsbitants.
4. Besides thete exotio aources of population, the Egyptian rece was at different perioda modifiad by the inflay of the Caucecien aations of Asia and Europe - Pelaggi or Hellenea, Soythians and Phonicians.
5. Kings of Egypt appear to bave been incidentally derived from each of the abore nations.
6. The Copts, in part at leset, are a mixture of the Cancasian and Negro, in extremely verishle proportions.
7. Negroes were numeroas in Egypt. Their social pasition, mancient times, wan the name that it is now ; that of servente or alares.
8. Tbe notural characteristics of all these families of man were distinctly flgared on the monuments, and all of them, excepling the Boythians and Pbcnicians, have been ider. tified in the estacomber
9. The prosent Fellahs are the lineal and loust mixed degoendants of the anoient Rgeptians; and the latter are collateraily repreaneated by the Tuaricke, Kabyles, Siwthe, and other remains of the Libyan fumily of notions.
10. Tbe modera Nubiang, with few exceptions, are not the descendente of the monamental Bthiopians; but a variansly mixed race of Arabians and Negroes.
11. Whatever may bave been the aise of the cartilaginous portion of the ear, the osseove structure conforms, in every instance, to the usual relative position.
12. The teeth differ in nothing from those of other Caucagian natione
13. The hair of the EgJptiant resembles in texture that of the faireat Earopenns of the present dny.
14. The phyrical or organic charactert which dütinguin the seecral races of aen are ar old as the oldent records of our species.
The sentiments here enunciated he suhsequently modified in one essential particular. In his letter to Mr. Bartlett of Dec. 1st, 1846, (published in vol. 2d of the Transactions of the American Ethnological Socicty, p. 215,) after reiterating bis conviction that the pure Egyptian of the remotest monumental period differed as much from the negro as does the white man of to-day, be continues:-
> " My later inveatigations bave confrmed me in the opinion, that the valley of the Nile Wen Inbsbited by an indigenons race, before the invasion of the Hamitic and other Abiatic nations; and that this primeval poople, who occupied the whole of Northern $\Delta$ frica, bore much the same relation to the Berber or Berabre tribes of Nubia, that the Baracess of the midule ages bore to their mandering and ontutored, yet cogoste brethren, the Bedoains of the desert."

Further details on this point will be found on pp. 231 and 232 of the present work.

The reception of this book was even more flattering than had been that of its predecessor. To admiration was added a natural feeling of surprise, that light upon this interesting subject should have come from this remote quarter. Lepsius received it on the eve of departure on his expedition to Djébel-Barkal, and his letter acknowledging it was dated from the island of Pbila. One can imagine with what intense interest such a man, so situated, must have followed the lucid deductions of the clear-beaded American, writiug at the other side of the world. But probably the most gratifying notice of the book is that by Prichard, in the Appendix to his Natural History of Man, of which I extract a portion. Ie quotea Morton largely, and always with commendation, even where the conclusions of the latter are in conflict with his own previously published opinions.

[^17]bech to eluddata the physical history of the ancient Egyptinn race. In noae of these coontries have any extencive oollectiona been formed of the materials and resorove which alone can afford a secure foundation for anch attempta. It is in the United Btatea of America that a remarkable edvancement of this part of physical science bas been at length echieved. 'The Transactions of the American Philosophical Soclety' contala a memoir by Dr. Morton of Philedelphis, in which that able and sealons writer, already diatinguighed by his admireble resescohes into the physical ohernoters of the native Amerioan races, bas broaght forward a groat mans of new information on the ancient Egyptiana." (p. 67.)

This brings as at once to the consideration of Morton's opinion upon the much-vexed question of the unity or diversity of the various races of men, or rather of their origin from a single pair; for that alone practically has been the topic of diacussion. It is a subject of too much importance, both to the cause of science and the memory of Morton, to be passed over slightly. Above all, there is necessary a clear and fair statement of his opinions, in order that there may he no mistake. His mind was progressive on this subject, as upon many others. He had to disabuse himself of erroneous notions, early acquired, as well as to discover the trath. It is therefore possible so to quote him as to miarepresent his real sentiments, or to make his assertions appear contradictory and confused. I propose to show the gradual growth of his convictions by the quotation, in their legitimate series, of his published expressions on the subject-

The unity and common origin of mankind have, until recently, been consitlered undiaputed points of doctrine. They seem to have been reganded as propositions not scientifically eatsblished, so mach as taken for granted, and let alone. All men were held to be deacended from the single pair mentioned in Genesia; every tribe was thought to be bistorically traceahle to the regions abont Mesopotamia; and ordinary physical influences were believed sufficient to explain the remarkable diversities of color, \&c. These opinions were thought to he the teachinge of Scripture not impugned by science, and were therefore almost aniversally acquiesced in. By Blamenbach, Pricbard, and others, the unity is assumed as an axiom not disputed. It is curious that the only attack made upon this dogms, until of late, was made from a theological, and not from a scientific stand-point. The celebrated book of Peyrerius on the pre-Adamites was written to solve certain difficulties in biblical exegeris, (such as Cain's wife, the city he builded; de.,) for the writer was a mere scholastic theologian.* He met the fate of all who ventured to defy the hierarchy, at a day when they had the civil power at tbeir back. Now they are confined to the calling of names, as infidel and the like, although mischief enough

[^18]can they thus do, inflicting a poisoned wound. Then they had their fagots in the Place de Grève, and as they could not catch Peyrerius, the Sorbonne ordcred his book publicly burned hy the common hangman. There is something ludicrously pathetic in the manner in which he addresses his essay to the then-persecuted Jews, with an utinam ex vobio unus! and adds, "Hoc mihi certe cum vobis commune est; quod vitam duco erraticam, quæqne parum convenit cum otio meditantis et scribentis." The press fairly rained replies to this daring work, from hoth Catholic and Protestant writers, hut not one of them based on scientific grounds, nor, indeed, in the defence of Genesis.

- Peyrerius would appear to have confessedly the advantage there. But it was asserted that the denial of mankind's universal descent from the loins of Adam, militated with the position of the latter aq "federal head" of the race in the "scheme of redemption." The writer's offence was purcly theological, and hence the charge of Socinianism and the vehemence with which even a phlegmatic Dutchman could be roused to hurl at his devoted head the anathema: Perturbet te Dominus, quia perturbasti Irraelem!* This excitement over, the suhject was heard of no more until the French writers of the last century again agitated it. Voltairo repeatedly and mercilessly ridicales the idea of a common origin. He says - "Il n'eat permis qu'à un avengle de douter que lea blancs, les Nègres, les Albinos, les Hottentots, les Lappons, les Chinois, les Americains, soient des races entièrement différentes." $\dagger$ But Voltaire was not scientific, and his opinion upon auch qnestions would go for nothing with men of scionce. Prichard therefore snms up his Natural History of Man, (London, 1845,) with the final emphatic declaration" that all haman races are of one species and one family." The doctrine of the nnity was indeed almost universally held even by those commonly rated as "Deistical" writers. D'Hancarville, and his fellow dilettanti, will certainly not be suspected of any proclivity to orthodoxy; yet, in his remarks upon the wide dissemination of Phallic and other religious emblems, he gives the ensuing forcible and eloquent statement of his conviction of the full historical evidence of unity :-

[^19][^20]Morton was educated in youth to regard this doctrine as a scriptural verity, and he found it accepted as the first proposition in the existing Ethnology. As such he received it implicitly, and only abandoned it when compelled by the force of an irresistible conviction. What be received in sincerity, he taught in good faitb. There can be no doubt that in that early course of 1830 , he inculcated the unity doctrine as strongly as ever did Prichard.

But this state of opinion conld not continue undisturbed. The wide ethnic diversities which so forcibly impressed one who contemplated them merely as an historian and critic (as Voltaire), could not fail to engage the attention of naturalists. The difficulties of the ${ }^{\circ}$ popular doctrine became daily more numerous and apparent, and it owed its continued existence, less to any inberent strength, than to the forhearance of those who disliked to awaken controversy hy assailing it. The ordinary exposition of Genesis it was impossihle for naturalists longer to accept, hut they postponed to the utmost the inevitable contest. The battle had been fought upon astronomy and gained; so that Ma pur af muove had become the watchword of the scientific world in its conflict with the parti pretre. The Geologists were even then coming victorious out of the combat concerning the six days of Creation, and the uhiversality of the Deluge. The Archmologists were at the moment beating down the old-fashioned ahort chronology. Now another exciting struggle was at hand. Unfortunately it seems out of the question to diseuss topics which touch upon theology without rousing bad blood. "Religious subjects," says Payne Knight, "being beyond the reach of sense or reason, are always embraced or rejected with violence or heat. Men think they know because they are sure they feel, and are firmly convinced because strongly agitated."* But disagrecable as was the prospect of controversy, it could not be avoided. It is carious to read Lawrence now, and see bow he piles up the objections to his own doctrine, until you doubt whether he belicees it himself! The main difficulty concerns a single centre of creation. The dispersion of mankind from such a centre, somewhere on the alluvium of the Euphrates, might be admitted as possible; but the gathering of all animated nature at Eden to be named by Adam, the dietribution thence to their reapective remote and diversified habitats, their reassembling by pairs and sevens in the Ark, and their second distribution from the same centre - these conccptions are wbat Lawrence long ago pronounced them, simply "zoologically impossiblc." The error arises from mistaking the local traditions of a circumscribed community for universal bistory. As Peyrerius remarked two centuries ago, "peccatur nou raro in lectione sacrorum

[^21]codicum, quoties generalius accipitur, quod specialius debuit intelligi."* The most rigid criticiem lias demonstrated, beyond the possibility of disputation, that all the nations and tribes mentioned in the Pentateuch, are included strictly within the so-called Caucasian race, and that the writer prohably never heard of (as he certainly never mentions) any other than white men. This discnssion, even to the limited extent to which it has gone, has called forth much bitterness; not on the part of sincere students of the sacred text, but of that pretraille which, arrogant in the direct ratio of its ignorance, suhsttutes clamor and denanciation for reason, and casts the dirt of opprobrious epithets when it bas no arguments to offer. But already this advantage has arisen from the agitation:-that some preliminary pointa at least may be considered settled, and a certain amount of scholarship may be demanded of those who desire to enter the diacussion; thas eliminating from it the majority of persons most ready to present themselves with noisy common-place, already ten times refuted. The men who, in the middle of the nineteenth century, can still find the ancestors of Mongolians and Americans among the sons of Japhet, or who talk about the curse of Canaan in connexion with Negroes, $\dagger$ are plainly without the pale of controversy, as they are heyond the reach of criticism. There is, even in some who have recently published hooks on the suhject such a helpless profundity of ignorance of the very first facts of the case, that one finds no fitting answer to them hut-expressive silence! To endeavor to raise such to the dignity of Ethnologists, even hy debate with them, is to pay them a compliment beyond their deserts. They have no right whatever to thrust themselves into the field, 一the lists are opened for another class of combatants. Therefore they cannot he recognised. With Dante,
"Non ragionam di lor; ma goards, e pasas!"
It was impossible for Morton, in the prosecution of his labors, to avoid these exciting questions. We have his own assurance that he early felt the insuperable difficulties attending the hypothesis of a common origin of all races. He seems soon to bave abandoned, if he ever entertained, the notion that ordinary physical influences will account for existing diversities, at least within the limits of the popular short chronology. There are two ways of escaping this difficultyone by denying entirely the competency of physical causes to produce the efficts alleged; and the other to grant them an indefinite period for their operation, as Prichard did in the end, with his "chiliads

[^22]of years," for man's existence upon earth. Morton inclined to ths other view, mainly in consequence of the historical evidence he had accumulated, showing the unalterable permanency of the characteriatics of race, within the limits of human records. But he was slow to hazard the publication of an opinion upon a question of so great mowent. He preferred to wait, not only until his own conviction became certainty, but until he could adduce the mass of testimony necesary to conviace others. This extreme caution characterized all his litersry lahors, and made bis conclusions always reliable.* A true disciple of the inductive philosophy, he labored long and hard in the verification of his premises. With an inexhaustihle patience he accumulated fact npon fact, and published observation upon obsorvation, often apparently dislocated and objectleas, but all intended for fature use. Many of his minor papers are mere stores of diajointed dats. More than once, when observing his untiring labor and its long postponed result, he has hrought into my mind those magnificent lines of Shelley :

Hark: the rushing snow!
The aun-awakened avalanche! whose mans, Thrice silted by the slorm, had gathered there Flake afer fiak, in heaven-defying minds As thought by thought is piled, till some great trath Is lowened, and the nations echo round, Shaken to their rooth, as do the momotaine now. $\dagger$
In fact, he had an eye, in all his investigations, to the puhlication at some future period of a work on the Elements of Ethnology, which should contain the fully ripened fruits of so many years of toil. Of this project he speaks in some of bis letters as "perhaps an idle dream," but one for whose realization he wonld make many sacrifices. For it he reserved the complete expression of his ethnological doctrines. This consideration, and his extreme dislike of controversy, made him particularly gtaarded in bis statements. Constitutionally averse to all noisy dehate and contention, he was well aware also that they are ineompatible with the calmness essontial to successful scientific inquiry. Nothing but an aggravated assault could have drawn from him a reply. That assault was made, and, as I conceive, most

[^23]$\dagger$ Promethen Unbound, Act II., Scene 8 d .
fortunately for his repatation. Without it he would prohably have ceased from his lahore without baving publisbed any such explicit and unmistakeable expression of opinion, on this important question, as his scientific friends would have desired. As it is, he has left no room for doubt or cavil as to his position in the very front of our onward progress in Anthropology.

The first published opinion of Morton in reference to this question is found in the Crania Americana. It will be perceived, that, recognizing the entire incompetency of ordinary climatic and similar influences to produce the alleged effects, he suggesta, as an escape from the difficulty, that the marks of Race were impressed at once by Divine Power upon the immediate family of Adam.

In his printed Introductory Lecture of 1842, the same views are repasted, and the insufficiency of external canses again insisted upon. In April of the same year, he read, before the Boston Society of Natural History, a paper which was republished in 1844, under the title of $A n$ Inquiry into the Distinctive Characteristice of the Aboriginal Race of America. From this paper I extract the following striking passage :

[^24]His unequivocal assertion of the permanency of the distinctive marks of Race in the final proposition of his resume of the Cranta LEgyptiaca has already been given, (oxpra, p.xii.)Two yeare afterwards he puhlished this emphatic declaration:

[^25][^26]The next citation is from the letter to Mr. Bartlett before mentioned:
> "But it is necespary to explain what lo here mesnt by the word race. I do not use it to Imply that all itn divisions are derlved from a single palr; on the contrary, I believe they heve originated from soveral, perhape oven from meny peare, which were adapted, from the bogianing, to the varied localities they were detigned to oocupy; and the Paegians, less migratory than the oogoste tribes, will serre to llastrate this idea. In other words, I rogard the Anerican nations an the trae autocthones, the primeval inhsbitents of this vast continent; and when I speak of their being of one rece or of one orgin, I allude only to their Indigenous relation to osch other, se shown in all those attribates of mind and body which bave been. 00 amply illustrated by modern ethnography."

In a note to a paper in Silliman's Journal for 1847, he says:-
"I may here obserfe, that whebever I heve yentared an opinion on this question, it has been in favor of the dootrine of primeval diverrities among men - an original sdaptation of the eeveral races to those raried circamatancea of climate and locelity, which, while oongenial to the one, are deatructive to the other; and subeequent inveatigations have confrmed me in these viems." $\dagger$

One would suppose that whoever had read the above publications could bave no doabt as to Morton'e sentiments; yet Dr. Bachman and others have affected to be suddenly surprised by the utterance of opinions which had been distinctly implied, and even openly published years before. To leave no further doubt upon the sabject, he thus expresses himself in bis letter to Dr. Bachman of March 30th, 1850 :-
"I commenced the atudy of Ethnology about twenty years since; and among the first *phoriams tanght me by all the books to which I then had nccess, wes thls - that all mankind were derived from a single pair; and that the diversities now so remarkahle, originsted solely from the operations of olimale, locelity, food, and other physical agente. In other words, that men wes oreated a perfeot and heantifol belng in the firat instance, and that chanoe, chance alone has caused all the phyaleal disparity among men, from the noblest Cariensian form to the mort degradod Australian and Hottentot. I approached the sobject an ane of grest difinoulty and delicacy; and my firot convictions were, that these dirersitien are not acquired, but have exdsted ab origine Such is the opinion oxpressed in my Crania Ameianta; but at that period, (twelve years age,) I had not inveatigated Bcriptoral Ethnology, and mancentent to suppose that the distinctuv obarecteriatics of the several paces hed bean merked opon the lmmediate family of Adam. Further Inveatigation, however, in connection with noological eoience, has led me to take s wider riew of this question, of चhich an ontling is given above." $\ddagger$

In order to present atill more fully and clearly the final conclusions of our revered friend on this topic, I sppend two of his letters. The first is addressed to Dr . Nott, nnder date of January 29th, 1850.

[^27]"I heve read and re-read your Two Leherer with great pleanure and instruction. I am especially pleased with the trinmphent manner in which you have treated the absurd postulate, that one race can be transmoted into another. The only illustrations that can be adduced by itr advocstes, as you juatly obeorve, are certain disemed and abnormal organirationg, that, by a wise lew of neture, wer out in a fom generationg some of your aphoriems have dolighted me. 'Man can invest nothing in science or religion bat falsebood; and all the truthe whioh he diveopers are bat facta or lews which have emanated from the Creator.' This in a noble sentiment admirably expressed. I am slowly preparing my memoir 'On the Size of the Brein in farious Reces and Familien of Man; with Rthrologioal Momarks.' The latier clense will give me suficient scope for the expreneion of my vipwe on those sennitive pointe of Rthnology in which I entirely sgree with you in opinion; leaving out all theological discosaion, whioh I have carefally svoided. Yon will observe e note in my Essey on Hybridity, in which I avow my belief in a plumlity of origins for the buman apecies, and I have now extended thoee obserrations, and briefty illustrated them; but in so doing I fad no difficulty with the text of Genesis, which is just as managenble in Ethnology as it has proved in Astronomy, Geology, and Chronology. When I wok this ground four years ago, (and in the Crania Amerieana my position is the same, though more cautiously worded, it was with some misgivinge, not becsuse I doubted the truth of my opinions, bat beosase I feared they would lead to some controversy with the clorgy. Nothing of the hind bas heppened ; for I have avoided coming into collision with men who too offen uphold a garbled toxt of Berfptare, to defest the progress of trath and aciance. I have had some letters from the clergy and from other piously-disposed persons, bat the only ope that had any apice of vehemonce was from a friend, Dr. Bachman, of Charleston. A namber of clergymen bave called upon me for information on this anbjeot, and I confesa to you any marpribe at the liberal tone of fealing they have expreand on this senaitive queeLion; and I really believe that if they are not preased too hard, they will finally cancede. all that can be asked of the mere question of diversity; for it can be fer more readily reoonciled to the Mosaic andals than bome other points, Astronomy, \&e., for example. As for Chronology, we all know it to be a broken reed. Look at the last page of Dr. Prichard's great work - the last page of his fiflh and last volume - and be there givea it as his matured opinion that the haman race bas been 'abilisds of centaries' apon the earth! He had before found it necessary to prove the Deluge s partial phenomenon, and he also admite that no physical agents could ever have prodnced the exiating diversities among nen; and ascribes them to accidental varitices which beve been caroful to intermix only smong themselves, and thereby perpetuated their race! Compared with this last inadenuate hypothenis, how beautiful, how evidently and inherenty truthful is the proposition - that our apecies had its origin, not in one, but in several or in many creations; sad that these diverging from their primitive centrea, met and amalgamated in the progress of time, and bevo thas given rise to these intermediate links of organization Which now connect the extremes together. Here is the ruth diveated of mystery; a system that explaing the otherwise anintelligible phenomena so remarksbly stamped on the reces of mep."

The remaining letter is addressed to Mr . Gliddon, under date of Philadelphia, April 27th, 1851, little more than two weeks before its nuthor ceased to breathe. I publish it verbatim, so that the reader may see that the concluding emphatic declaration stands unqualified by anything in the context.
"My dear Sir:-Have you Bquier's pamphlets on Californis and New Moxico? Is it not in them that is contained a refutation of the old fable of whido Indians on or neer the Rio dils ! If so, please mend me the sbove paper by mail as soon as yon can. I must hava. them somemhere, bat I am in an emerganoy for them, and they cannot be found. I am bard at work at my ohapter for Bohooleraft's book, and am desirots to get it off my heode.

I eend you a paragraph from tho Lodger wich will gratify you. There fo no bigber praise then this. It ls all the better for being so aphorismally expressed. The doctrine of the originat diocerity of mandind unfoldr itedf to me more and more with tho dititinctrase of tevethers.
" Whih ktadest remembraces to Mrs. O. and your fine boy, I bu, " Rever faithrally yours,
"B. G. Morton."
These citations are sufficient for our purpose, I apprehend, especially the laconic emphasis of the last, which may be regarded as the ethnological teatament of our lamented friend. I have been thus full upon this point, because I believe it but justice to bis memory to show that he was among the very earliest to accept and give shape to the doctrine stated. As the mountain summits are gilded with the early dnwn, while the plain below still sleeps in darkness, so it is the loftiest spirit among men that first receives and reffects the radiance of the coming truth. Morton has occupied that position among ns, in relation to this important advance in scientific opinion. I have desired to put the evidence of it fairly upon record, and thus to claim and secure the distinction that is justly due him.
Many well-meaning, bat uninformed persons have, however, raised an outcry of horror against the assertion of original haman diversities, in which they have been joined by others who ought to know better. The attack is not made upon the doctrine itself, nor upon any direct logical consequence of it. The alleged grievance consists entirely in the loss of certain corollaries deducible from the opposite proposition. Thus it is asserted that our religious system and our doctrine of social and political righta, alike result from the hypotheais of human consanguinity and common origin, and stand or fall with it. To this effect we have constantly qnoted to us the high authority of Humboldt, who sayg, "En maintenant l'unite de l'eapèce humaine, nous rejetons par conséquence néceesaire, la distinction désolante de races supérieares et de races inférieares."*
In a note he again applies the term désolante to this doctrine. I have used the French translation, because it is the more forcible, and becanse it was that read hy Morton, whose felicitous commentary upon it I am fortunately ahle to adduce, from a letter to Mr. Gliddon, of May 30th, 1846.

[^28][^29]
. Here are sound philosophy and plain common sense. As the facts are open to investigation, let us first examine them, and leave the inferences for future consideration. If the proposition prove true, we may safely trust all its legitimate deductions. There is no danger from the truth, neither will it conflict with any other truth. Our greater danger is from the cowardice that is afraid to look fact in the face, and, not daring to come in contact with reality, for fear of consequences, must rest content with error and balf-beliof. The question here is one of fact simply, and not of speculation nor of feeling. Humboldt may deny the existence of unallerable diversities, but that is another question, also to be settled only by a wider observation and longer experience. The ethical consequences he so eloquently deprecates, moreover, appear to me not to be fairly involved, unless be assumes that the solidarity and mutual moral relations of mankind originate solely in their relationship as descendants of a single pair. If so, he has built upon a sandy foundation, and one which every moralist of note will tell him is inadequate to the support of his superatructure. The inalienable right of man to equal liberty with his fellows depends, if it has any sanction, upon higher considerations than any mere physical fact of consanguinity, and remains the same whether the latter be proved or disproved. Ethical principles require a different order of evidence from material pbenomena, and are to be regarded from another point of view. The scientific question abould, therefore, be discussed on its own merits, and without reference to false iseues of an exciting cbaracter, if we hope to reach the truth. I cannot forbear the conclusion that, in this matter, the Nestor of science has been betrayed into a little piece of popular declamation, unworthy of his pen, otherwise so consistently logical. But the acme of ahsurdity is reached by those clerical gentlemen at the south, who have been so eager to avail themselves of Humboldt's great anthority in opposition to the doctrine of diversity, while they deny all his premises. Do they consider all doctrine necessarily désolante, hecauso an argument in favor of slavery, true or false, may be based upon it? Humboldt does. And again, if the denisl of a common paternity involves all the deplorable consequences indicated by the intter, does
its assertion carry with it the contrary inferences? They say not. If, then, the doctrine of unity gives no essential guarantee of universal liberty and equality, why reproach the opposite doctrine with destroying what never existed? Thus, these gentlemen must stultify either themselves or their champion, while that which with him was merely a rhetorical flourish hecomes, in their hands, a ridiculous non sequitur.

In the course of these discussions it became necessary to define, with greater precision, certain terms in constant use. This was especially the case with the word epecies, the loose employment of which occasioned much confusion. According to the prevalent zoological doctrine, the production of a prolific offspring is the highest evidence of specific identity, and vice versd. The important results of the application of this law to the races of men are apparent. But other authorities deny the validity of the alleged law and its application. "Wir dürfen," says Rudolphi, "also wohl deswegen auf Keine Einheit des Menschengeschlechts schliessen, weil die verschiedenen Menschenstamme sich fruchthar mit einander hegatten." The question of Hyhridity, therefore, presented itself to Morton in a form that demanded attention and settlement before going farther. He seized the subject, not to speeulate, and still less to declaim ahout it, but cautiously to gather and sift its facts. His first papers were read before the Acadeny of Natural Sciences in November, 1846, and puhlished in Silliman's Journal the next year. They contain a large number of facts, from various authorities, together with the author's inferences. For these, and the entire discussion of the topic, I refer the reader to Chapter XII. (on Hybridity) in this work. But the controversy into which it led Morton forms too prominent a part of his scientific history to be passed over in silence. It was not of his seeking, hut was forced upon him. A literary club at Charleston, S. C., being engaged in the discussion of the Origin of Man, the Rev. Dr. Bachman assumed the championship of the unitary hypothesis, taking ground upon the evidence afforded hy an invariably prolific offspring. His opponents met him with Morton's papers on Hybridity. These he must, of course, examine; hut be first addressed Morton a letter, of which the following is an extract:-

Charketon, Oct. 15hh, 1849.
"Wo are both in the mearoh of trath. I do not think that these seientific investigations sfeot the ecriptare question either way. The Author of Mevelstion is also the Author of Hiture, and I have no fear that when we are able to read inteiligibly, we wil? discover that both harmosize. We can then iavestigate these matlers without the fear of an auto-da-fe from men of sense. In the meantme all mast go with respect and good feeling towardy each ouher. Althoagh hard at work in fnishing the lest volume of Aadubon's work, I will now and then have cime to look at this matter; and hore let me in anticipation atate some of tiny objections. Fritten this noder all kinds of linterroptions. I ahall bo most sorty if my opposition to your theory would produce the elighteat interraption to our good fealing, as I regerd you, in your many works, a a benafactor to your country, and an honor to reience I teel con-

This seems manly and friendly, and Mortan, feeling it to be succh, was very much gratified. He certainly never conkd bave regarded it as a prelude to an attack upon himself; yet auch it was The neat spring (1850) witnessed the pablication of Dr. B.'s book on Unity, as well as his Monograph on Hybridity, in the Cherleston Medical Journad, in both of which Morton is made the object of assault and attempted ridicule. The former work I have already referred to, (p. xlvi.) The author starts with what amounts, onder the circamstances, to a broad and unequivocal confession of ignoranee of his topic - a confession which, however praiseworthy on the seone of frankness, may be re garded as wholly supererogatory; for no reader of ordinary intelligenco can open the book without perceiving the fact for himaelf. His reading seems to have been singularly limited,* while the topic, involving, as it does, the characteristics of remote races, \&e., demands a wide and careful consultation of suthorities. For one who is confessedty neither an archæologiet, an anatomist, nor a philologist, to attempt to teach Ethnology on the strength of having, many years ago, read on the subject a aingle work - and he acarcely recollects what - is a conception as bold as it is original. His production required no notice, of course, at the hand of Morton. On the special suhject of Hybridity, however, be was eatitled to an attentive hearing as a gentieman of estahliehed authority, particularly in the mammalian department of Zoology. Hed he discuseed it in the spirit foreshadowed by his letter, and which Morton anticipated, there would have been no controversy, hut an amicahle comparion of views, advancing the cause of science. But his tone was arrogant and offensive. Not only to the general reader in his book, hot alao to Morton in his letters,

[^30]does he speak de haut en bas, as if, from the height of the pulpit, he was looking down upon men immeasurably removed from him hy his ascred office. This faulty manner perhaps results from his profession, as does his verhose and declamatory style. But this consideration will not excuse the patronizing way in which he addresses one of higher seientific rank than himself. He reminds Morton of the countenance he has heretofore given him,-that he even subscribed for his book! The aathorities relied upon hy the jatter he treats with supreme contempt, individually and collectively, characterizing them as pedantic, antiquated, and "musty." All this is carried through in a hold, dashing, off-hand way, calculated to impress forcibly any reader ignorant of the matter under discussion. It argues the most confident selfeomplacency and conviction of superiority on the part of the writer, and douhtless his admiring rendere shared the feeling. For a short season there was quite a juhilation over the nssumed defeat of the physicists.
But there is an Italian proverb which says, Non sempre chi cantando viene, cartando va! and which Dr. B. was destined to illustrate. To his first paper Morton replied in a letter dated March 30th, 1850, the tone of which is calm, dignified, and friendly. He defends his authorities, accumulates new evidence, and strengthens and defines his position. This called forth Dr. B.'s most objectionable letter of June 12th, 1850, also published in the Charleston Journal, and in which he eatirely passes the hounds of propriety. No longer satisfied with his poor attempts at wit, which consist almost exclusively in the use of tbe word "old" and its synonymes, he becomes denunciatory, and even abusive. He charges Morton with taking part in a deliberate conspiracy, having its ramifications in four eities, for the overthrow of a doctrine " nearly connected with the faith and hope of the Christian, for this world and for eternity." In another paragraph, (p. 507,) he says, that infidelity must inevitahly spring up as the eonsequence of adopting Morton's views. Now, we all know that when gentlemen of Dr. B.'s cloth use that word, they mean war ueque ad necem. Its ohject is simply to do misehief and give pain. It cannot injure

[^31]the person attacked, so far as the scientific world is concerned - for there the plrase can now only excite a amile-but it may impair his business or his public standing, or, still worse, it may enter his domestic circle, and wound him through his tenderest sympathies. Was such the intention in the present case? Charity bide us think otherwise; and yet the attack has a very malignant appearance. To Morton it occasioned great surprise and pain. He answered it calmly in a paper in the same Journal, entitled Additional Observations, \&c. He is unwavering in the assertion of his opinion; and, inasmuch as its triumphant establishment would he his own best justification, he piles up atill more and more evidence, often from the highest authorities in Natural History. The personalities of Dr. B. he meets and refutes briefly, but with firmness and dignity, declining entirely to allow himself to be provoked into a bandying of epitbets. His conduct was in striking contrast with that of his reverend opponent; and, wbile it exalted him in the estimation of the learned everywhere, showed the latter to he a stranger to the conrtesies that sbould characterize scientific discussion. More of a theological polemic than a naturalist, he uses the tone and style proverbially displayed by the former, and is offensive accordingly. He has his punisbment in general condemnation and impaired scientific standing. In the mean time, Morton was atimulated to a determination to exhanst whatever material there was accessible in regard to Hybridity. Dr. Bachman he dropped entirely after the second letter; but he announced to his friends his intention of sending an article regularly for ench successive number of the Charleston Journal, so long as new matter presented. Two only of theso supplementary communications appeared, the last being dated January 31st, 1851.
But the solemn termination of all these labors was near at hand. Never had Morton heen so busy as in that spring of 1851. His professional engrgements had largely increased, and occupied most of his time. His craniological investigations were prosecuted with unshated zeal, and he had recently made important accessions to his collection. He was actively engaged in the study of Archæology, Egyptian, Assyrian, and American, as collateral to his favorite subject. His researches upon Hybridity cost him much labor, in his extended comparison of nuthorities, and his industrious search for facts bearing on the question. In addition to all this, he was occupied with the preparation of his contribution to the work of Mr. Bchooleraft, and of aeveral minor papers. Most of these labors were loft incomplete. The fragments published in this volume will show how his mind was engaged, and to what conclusions it tended at the close. For it was now, in the midst of toil and usefulness, that he was called away from us. Yive days of illness - not considered
alarming at frat-had scarcely prepared his friends for the sad event, when it was announced, on the 15th of May, that Morton was no more! It was too true-whe had left vacant among us a place that cannot soon be filled. Peacefully and calmly he had gone to his eternal rest, having accomplished so much in his short space of life, and yet leaving so mach undone, that none but he could do as well!

So lived and so died our lamented friend. While we deplore his loss, however, we cannot but perceive that few men have been more blessed in life than he. His career was an eminently prosperous and successful one. Very few have ever been so uniformly successful in their enterprises. He established, with unusual rapidity, a widespread scientific fame, upon the white radiance of which ho has, dying, left not a single blot. His life was also a fortunate and happy one in its more private relations. His first great grief came opon him, precisely a year before his own decease, in the loss of a heloved son, to whom he was tenderly attached. No other cloud than this obscured his clear horizon to the last. That be felt it deeply there can be no douht; but he had, at his heart's core, the sentiment that can rob sorrow of its bitterness, and death of its sting. To that sentiment he has given utterance in these lines; and, with their quotation, I conclude this notice, the preparation of which has been to mes labor of love, and the solace, for a season, of a bed of suffering.

Jan. 1854.
COKAOLAT10m.
H. S. P.

What ast thou, world! with thy begriting dreams, Thy basquets and carousals, pomp and pride!
What is thy gayest moment, when it wems With pleasures mon, or prospects yet untried?
What are thy hovors, titles and renown, Thy brighteat pageant, and thy nobleast away? Alas: like flowert beneath the tempeat'a from, They bloom at morn, -at ove they fede sway!
A fow ahort years revolve, and then no more Can Memory rouse them from their reating-plece;
The joye we coarted, and the hopes we bore, Have pass'd like aharows from our fond embrece.
Bat is there apught, amid the fearfol doom, That can outlast the wreck of mortal thing? ?
There is a spint that does not consame, But moanth o'er rain with triumphant wings
And thon, Religion: like a guardian atar Dost glitter in the frrmament on high, And lead'ut ne till, tho' we heve rander'd far, To hopes that cheer, and jays that never die!
And if an errigg pilgrim on hir way
Casta but a pare, 8 supplient glance to Heaven,
"Fear not-banigbted cbild"--he heare thee any-
"Por they are doubly blest that aro forgiven!"

## SKETCH

## DP $\boldsymbol{F}_{1}^{11}$

## NATURAL PROVINCES OF THE ANTMAL' FORLD AND THETE RELATION TO THE DIFFERENT TYPES OF MAN.

OY LODIB AOABEIE.


#### Abstract

Nearss. Notr and Glimpor. Deur Strs:-In cotrpliance with your requeat that I shoold forminh you whe certain ucieatifo factarespecting the Natarsl History of Man, to which you are now devoling particularly your attention, I unansmit to you nome general remarke opon the natural reations of the haman family and the orgenic world aurrounding it; in the hope that it may enll the attention of nataralints to the clase comnection there is between the geogntaptical dioftibastion of animale and che natural bourdaries of the diffremt races of man - 1 flet which must be explained by any theory of the origin of life चhich clains to cover the whole of this diffioalt problem. I do not pretend to preseat such a theory now, but would simply illusirate the facts as they are, to lay the foundation of a more extensive work to be published at some future time. Nor is it my intention to characterize here all the zoologica? provinces secoguized by naturaliste, but only those the animals of which are krown with sufficient securacy to throw light upon the subject under consideration, of the marine animala, I shall therefore take no notice, except so fer as they bear a special relation to the babita of uncivilized races or to the commercial enterprius of the world. The views illugtrated in the following pages have been expreseed for the frat time by me in o paper, published In Prench, In the Reoue Suriese for 1845.


Very troly, youre,
Le. A0sabir
Cambridge, Meas., Deo. 19th, 1858.

There is one feature in the physical history of mankind which has been entirely neglected by those who bave studied this subject, viz., the natural relations between the different types of man and the animals and plants inhabiting the same regions. The sketch here presented is intended to supply this deficiency, as far as it is possible in a mere outline delineation, and to show that the boundaries, within which the different natural combinatione of animals are known to be circumacribed upon the surface of our earth, coincide with the natural range of distinct types of man. Such natural combinations of auimals circumscribed witbin definite boundaries are called faune, whatever
be their home - land, sea, or river. Among the animals which conrpose the fanna of a country, we find types belonging exclusively there, and not occurring elsewhere; such are, for example, the ornithorbynchus of New Holland, the aloths of America, the hippopotamus of Africa, and the walruses of the aretics: others, which have only a small number of representatives heyond the fauna which they specially characterize, as, for instance, the marsapials of New Holland, of which America has a few apecies, such as the opossum; and again others which have a wider range, snch as the bears, of which there are distinct species in Europe, Asia, or America, or the mice and bats, which are to he found all over the world, except in the arctics. That fauna will, therefore, be most easily characterized which possesses the largest number of distinct types, proper to itself, and of which the other animals have little analogy with those of neighboring regions, as, for example, the fauna of New Holland.
The iohahitants of fresh waters farnish also excellent characters for the circumseription of faunw. The fishes, and other fluviatile animals from the larger hydrographic hasins, differ no less from each other than the mammalia, the birds, the reptiles, and the insects of the countries which these rivers water. Nevertheless, some authors have attempted to separate the fresh water animals from those of the land and sea, and to establish distinct divisions for them, ander the name of fluviatile faunm. But the inhabitants of the rivere and lakes are too intimately connected with those of their shores to allow of a rigorous distinction of this kind. Rivers never establish a separation between terreatrial faune. For the same reason, the faunm of the inland seas cannot he completely isolated from the terrestrial ones, and we shall hereafter that the animals of southern Europe are not bound by the Mediterranean, but are found on the southern shore of that sea, as far as the Atlas. We shall, therefore, distinguish our zoological regions acocording to the combination of species which they enclose, rather than according to the element in which we find them.

If the grand divisions of the animal kingdom are primordial and independent of climate, tbis is not the case with regard to the ultimate local circumscription of species: these are, on the contrary, intimately connected with the conditions of temperature, soil, and vegetation. A remarkable instance of this distribution of animale with reference to climate may be observed in the arctic fanna, which contains a great number of species common to the three continents converging towarda the North Pole, and which presents a striking uniformity, when compared with the diversity of the temperate and tropical faune of those same continents.

The arctic fauna extends to the utmost limits of the cold and barren regions of the North. But from the moment that forests appear, and a more propitious soil permits a larger development of animal life and of vegetation; we see the fauna and flora, not only diversified according to the continents on which they exist, but we observe also striking distinctions hetween different parts of the same continent; thus, in the old world, the animale vary, not only from the polar circle to the equator, but also in the opposite direction - those of the western coast of Europe are not the same as those of the basin of the Caspian Sea, or of the eastern coast of Asia, nor are tbose of the eastern coast of America the same as those of the western.

The first fauna, the limits of which we would determine with precision, is the arctic. It offers, as we have just seen, the same aspects in three parts of the world, which converge towards the North Pole. The uniform distribution of the animals by which it is inhabited forms its most striking character, and gives rise to a sameness of general featurea which is not found in sny other region. Though the air-breathing species are not numerons here, the large number of individuals compensates for this deficiency, and among the marine animals we find an astonishing profusion and veriety of forms.

In this respect the vegetable and animal kingdoms differ entirely from each other, and the measure by which we estimate the former is quite false as applied to the latter. Plants become stunted in their growth or disappear before the rigors of the climate, while, on the contrary, all classes of the animal kingdom have representatives, more or less numerons, in the arctic fauna.
Neither can they be said to diminish in size under these influences; for, if the arctic representatives of certain classes, particularly the insects, are smaller than the analogous types in the tropics, we raust not forget, on the other band, that the whales and larger cetaces have here their most genial home, and make amends, by their more powerful stricture, for the inferiority of other classes. Also, if the animals of the North are less striking in external ornament - if their colors are less brilliant - yet we cannot say that they are more uniform, for though their tints are not so bright, they are none tbe lese varied in their distribution and arrangement.

The limits of the arctic fauda are very easily traced. We must include therein all animals living beyond the line where forests cease, and inhabiting conntries entirely barren. Those which feed upon flesh seek fishes, bares, or lemmings, a rodent of the size of our rat. Those which live on vegetable substances are not numerous. Some gramneous plants, mosses, and lichens, serve as pasture to the ruminants and rodents, while the seeds of a few flowering plants, and
of the dwarf birches, afford nourishment to the little granivorous birds, such as linnets and buntings. The species belonging to the sea-shore feed upon marine animals, which live, themselves, upon each other, or upon marine plants.

The larger mammalia which inhabit this zone are - the white bear, the walrus, numerous species of seal, the reindeer, tbe musk ox, the narwal, the cachalot, and whales in abundance. Among the smaller species we may mention the white fox, the polar bare, and the lemming. The birds are not less characteristic. Some marine eagles, and wading birds in smaller number, are found; but the aquatic birds of the family of palmipedes are those which especially prevail. The coasts of the continents and of the numerous islands in the arctic seas are peopled hy clouds of gannets, of cormorants, of penguins, of petrels, of ducks, of geese, of mergansers, and of gulls, some of which are as large as eagles, and, like them, live on prey. No reptile is known in this zone. Fishes are, however, very numerous, and the rivers especially swarm with a variety of species of the salmon family. A number of representatives of the inferior classes of worms, of crustaces, of molluske, of echinoderms, and of meduse, are also found here.
Within the limite of this fanns we meet a peculiar race of men, known in America under the name of Esquimaux, and under the names of Laplanders, Samojedes, and Tchuktshes in the north of Asia. This race, so well known since the voyage of Capt. Cook and the arctic expeditions of England and Russia, differs alike from the Indians of North America, from the whites of Europe, and the Mongols of Asia, to whom they are adjacent.; The uniformity of their characters along the wholo range of tho arctic seas forme one of the mort striking resemblances which these people exhibit to the fauna with which they are so closely connected.

The semi-annaal alternation of day and night in the arctic regions has a great influence upon their modes of living. They are entirely dependent upon animal food for their sustenance, no farinaccous grains, no nutritious tubercles, no juicy fruits, growing under those inhospitable latitudes. Their domesticated animale are the reindeer in Asia, and a peculiar variety of dog, the Esquimaux dog, in North America, wbere even the reindeer is not domesticated.

Though the arctic fauns is essentially comprised in the arctic circle, its organic limit does not correspond rigorouely to this line, hut rather to the isotherme of $32^{\circ}$ Fahr., the outline of which presents nomerous undulations. This limit is still more natural when it is made to correspond with that of the disnppearance of forests. It then circumscribes those immense plains of the North, which the Samoyedes call tundras, and the Anglo-Americans, barren lands.

The naturalists, who have overlooked this fauna, and connected it with those of the temperate zone, have introduced much confusion in the geographical distribution of animala, and have failed to recognize the remarkable coincidence existing between the extensive range of the arctic race of men, and the uniformity of the animal world around the Northern Pole.

The first column of the accompanying tablean represents the types which characterize best this fauns; xiz., the white or polar bear, the walrus, the eeal of Greenland, the reindeer, the right whale, and the eider duck. The vegetation is represented by the so-called reindeermoss, a lichen which constitutes the chief food of the herbivorous animals of the anctics and the high Alpe, during winter.

To the glacial zone, which incloses a single fauna, succeeds the temperate zone, included between the isothermes of $32^{\circ}$, and $74^{\circ}$ Fahr., characterised by its pine forests, its amentacee, its maples, its walnuts, and its fruit trees, and from the midst of which arise like islands, lofty mountain chains or high tahle-lands, clothed with a vegetation which, in many respects, recalla tbat of the glacinl regions. The geographical distribution of animals in tlris zone, forms several closely connected, hut distinct combinations. It is the country of the terrestrial bear, of the wolf, the fox, the weasel, the marten, the otter, the lynx, the horee and the ass, the boar, and a great numher of stage, deer, elk, goats, sheep, hulls, hares, squirrels, rats, \&c.; to which are added southward, a few representatives of the tropical zone.

Wherever this zone is not modified by extemsive and high tablelands and mountain chains, we may distinguish in it four secondary zones, approximating gradually to the character of the tropics, and presenting therefore a greater diversity in the types of its soutbern representation than we find among those of its northern bonndaries. We have first, adjoining the arctics, s oub-aretic zone, with an almost uniform appearance in the old as well as the new world, iu which pine foresta prevail, the bome of the moose; next, a cold temperate zone, in which amentaceous trees are combined with pines, the home of the fur animals; next, a warm temperate zone, in which the pines recede, whilst to the prevailing amentaccous trees a variety of evergreens are added, the chief sent of the culture of our fruit trees, and of the wheat; and a sub-tropical zone, in which a number of tropical forme are combined with those characteristic of the warm temperate zone. Yet there is throughout the whole of the temperate zoue one feature prevailing; the repetition, under corresponding latitudes, but under different longitudes, of the same genera and families, represented in each hotanical or zoological province by distinct so-called
analogous or representative species, with a very few suhordinate types, peculiar to each province; for it is not until wo reach the tropical zone that we find distinct types prevailing in each fanna and flora. Again, owing to the inequalities of the surface, the secondary zones are more or less hlended into ons another, as for instance, in the tsble-lands of Central Asia, and Western North America, where the whole temperate zone preserves the festures of a cold temperato region; or the colder zones may appear like islands rising in the midst of the warmer ones, as the Pyrenees, the Alps, \&c., the summits of which partake of the pecaliarities of the aretic and suh-arctic zones, whilst the valleys at thcir base are characterised by the flora and fauna of the cold or warm temperate zones. It may be proper to remark, in this connection, that the study of the laws regulating the geographical distribution of natural families of animals and plants upon the whole surface of our globediffers, entirely, from that of the associations and combinations of a variety of animals and plants. within definite regions, forming peculiar faunæ and flora.

Considering the whole range of the temperate zone from oast to west, wo may divide it in accordance with the prevailing physical features into - 1st, an Asiatic realm, embracing Mantchuria, Japan, China, Mongolia, and passing through Turkestan into 2d, the European realm, which includes Irau as well as Asia Minor, Mesopotsmia, northern Arabia and Barbary, as well as Europe, properly so called; the western parts of Asia, and the northern parts of Africa being intimately connected hy their geological structure with the eouthern parts of Europe; * and, 3d, the North American realm, which extends as far south as the table-land of Mexico.

With theae qualifications, we may proceed to consider the fung which cbaracterize these three realms. But, before studying the organic characters of this zone, let us glance at its physical constritution. The moat marked character of the temperate zone is found in the inequality of the four seasons, which give to the earth a peculiar aspect in different epochs of the year, and in the gradual, though more or leas rapid passage of these seasons into each other. The vegetation particularly undergoes marked modifications; completoly arreated, or merely suspended, for a longer or shorter time, according to the proximity of the arctic or the tropical zone, we find it by tans in a prolonged lethargy, or in a state of energetic and anstained development. But in this respect tbere is a decided contrast between the cold and warm portions of the temperate zone. Though they

[^32]are both cbaracterized by the predominance of the same families of plants, and in particular by the presence of numerous species of the coniferous and amentaceous plants, yet the periodical sleep which deprives the middle latitudes of their verdure, is more complete in the colder region than in the warmer, which is already enriched by some southern forms of vegetation, and where a part of the trees remain green all the year. The succession of the seasons produces, moreover, such considerahle changes in the climatic conditions in this zone, that all the animals helonging to it cannot sustain them equally well. Hence a large number of them migrate at different seasons from one extremity of the zone to the other, cspecially certain families of birds. It is known to all the world that the birds of Northern Europe and America leave their ungenial climate in the wirter, seeking warmer regions as far as the Gulf of Mexico and the Mediterranean, the shores of which, even those of the African coasta, make a part of the temperate zone. Analogous migrations take place also in the north of Asia. Such migrations are not, hqwever, limited to the temperate zone; a number of species from the arctic regions go for the winter into the temperate zone, and the limits of these migrations may aid us in tracing the natural limits of the faune, which thus link themselves to each other, as the human races are connected by civilization.

The temperate zone is not characterized, like the arctic, by one and the same fauna; it does not form, as the arctic does, one continuous zoological zone around the glohe. Not only do the animals cbange from one hemisphere to another, but these differences exist even between various regions of the same hemisphere. The species helonging to the western countries of the old world are not identical with those of the eastern countries. It is true that they often resemble eacb other so closely, that until very recently they have been confounded. It has beon reserved, however, for modern zoology and botany to detect these nice distinctions. For instance, the conifere of the old world, even within the sub-arctic zone, are not identical with those of America. Instead of the Norway and black pine, we have bere the balsam and the wbite spruce; instead of the common fir, the Pinus rigida; instead of the European larch, the hacmatac, \&cc.; and farther south the differences are still more striking. In the temperate zone proper, the oaks, the beeches, the birches, the hornheams, the hophornbeams, the chestnuts, the buttonwoods, the elms, the linden, the maples, and the walnuts, are represented in each continent by peculiar species differing more or less. Peculiar forms make, here and there,their appcarance, such as the gum-trees, the tulip-trees, the magnolias. The evergreens are still more diversified,-we need only
mention the camelias of Japan, and the kalmias of America as examples. Among the tropical forms extending into the warm temperate zone, we notice particularly the palmetto in the southem United States, and the dwarf chamerops of southern Europe. The animn kingdom presents the aame features. In Europe we have, for instance, the brown bear; in North America, the black hear; in Asia, the bear of Tubet: the European stag, and the European deer, are represented in North America by the Canadian stag, or wapiti, and the Amcrican deer; and in eastern Asia, hy the musk-deer. Instead of the mouflon, North America has the big-horn or mountain sheep, and Asia the argali. The North American buffalo is represented in Europe by the wild auerochs of Lithaania, and in Mongolia by the yak ; the wild-cats, the martens and weasels, the wolves and foxes, the squirrels and mice (excepting the imported house-mouse), the birds, the reptiles, the fishes, the insects, the mollusks, sc., though more or less closely allied, are equally distinet specifically. The types peculiar to the old or the new world are few; among them may be mentioned tho horse and ass and the dromedary of Asia, and the opossum of North America; hut upon this subject more details may be found in every text-book of zoology and botany. We would only add that in the present state of our knowledge we recognise the following combinations of animals within the limits of the temperate zone, which may be considered as so many distinct zoological provinces or faune.

In the Asiatic realm, - 1st, a north-eastern fauna, the Japanese fauna; 2d, a south-eastern fauna, the Chinese fauna, and a central fauna, the Mongolian fauna, followed westwards by the Caspian fauna, which partakes partly of the Asiatic and partly of the European zoological character; its most remarkable animal, antelope saiga, ranging west as far as southern Russia. The Japanese and the Chinese faunæs stand to each other in the same relation as southern Europe and north Africa, and it remains to be ascertained hy farther investigations whether the Japanese fauna ought not to be subdivided into a more eastern insular fauna, the Japanese fauna proper, and a more western continental fauna, which might be called the Mandshurian or Tongousian fauna. But since it is not my object to describe separately all faunæ, but chiefly to call attention to the coincidence existing between the natural limitation of the races of man, and the geographical range of the zoological provinces, I shall limit myself here to some general remarks respecting the Mongolian fauna, in order to show that the Asiatic zoological realm differs cessentially from the European and the American. In our Tableau, the second column represents the most remarkable animals of this fauna; the
bear of Tubet (ursus thibetanus), the musk-deer (moschus moschiferas), the Tzeiran (antilope gutturosa), the Mongolian goat (capra sibirica), the argali (ovis argali), and the yak (hos grunniens). This is also the home of the Bactrian or douhle-hunched camel, and of the wild horse (equus caballus), the wild ass (equus onager), and another equino species, the Dtschigetai (equus hemionus). The wide distrihution of the musk-deer in the Altai, and the Himmalayan and Chinese Alps, shows the whole Asiatic range of the temperate zone to be a most natural zoological realm, suhdivided into distinct provinces hy the greater localization of the largest numher of its representatives.

If we now ask what are the nations of men inhabiting those regions, we find that they all belong to the so-called Mongolian race, the natural limits of which correspond exactly to the range of the Japanese, Chinese, Mongolian and Caspian faume taken together,

- and that peculiar types, distinct nations of this race, cover respectively the different fanner of this realm. The Japenese inhabiting the Japanese zoological province; the Chinese, the Chinese province; the Mongols, the Mongolian province; and the Turks, the Caspian province; eliminating, of course, the modern estahlishment of Turks in Asia Minor and Europe.

The unity of Europe, (exelusive of its arctie regions,) in connection with south-western Asia and northern Africa, as a distinct zoological realm, is estahlighed by the range of its mammalia and by the limits of the migrations of its hirds, as well as hy the pbysical features of its whole extent. Thus we find its deer and stag, its hear, its hare, its squirrel, its wolf and wild-cat, its fox and jackal, its otter, its weasel and marten, its badger, its bear, its mole, its hedgehogs, and a number of bats, either extending over the whole realm in Europe, western Asia, and north Africa, or so linked together as to show that in their combination with the birds, reptiles, fishes, \&c., of the same countries, they constitute a natural zoological association analogous to that of Asia, but essentially different in reference to species. Like the eastern realra, this European world may be sub-divided into a number of distinct faunæ, characterized each by a variety of peculiar animals. In western Asia we find, for instauce, the common camel, instead of the Bactrian, whilst Mount Sinai, Mounts Taurus and Caucasus have goats and wild sheep wbich differ as much from those of Asia, as they differ from those of Greece, of Italy, of the Alps, of the Pyrenees; of the Atlas, and of Egypt. Wild horsea are known to have inhabited Spain and Germany; and a wild bull extended over the whole range of central Europe, which no longer exists there. The Asiatic origin of our domesticated animals may,
therefore, well be questioned, even if we were still to refer western Asis to the Asiatic realm; since the ass, and some of the breeds of our horse, only belong to the tahle-lands of Iran and Mongolia, whilst the other species, incinding the cat, may all be traced to species of the European realm. The domesticated cat is referred by Rüppell to felis manieulata of Egypt; by others, to felis catus ferus of central Europe; thus, in hoth cases, to an animal of the European realm. Whether the dog bo a species hy itself, or its varieties derived from several species which have completely armalgaraated, or he it deseended from the wolf, the fox, or the jackal, every theory must limit its natural range to the European world. The merino sheep is still represented in the wild state hy the mouflon of Sardinia, and was formerly wild in all the mountains of Spain; whether the sheep of the patriarchs were derived from those of Mt. Taurus, or from Armenia, still they differed from those of western Europe; since, a thousand years before our era, the Phonicians preferred the wool from the Tberian peninsula to that of their Syrian neighbours. The goats differ so much in different parts of the world, that it is still less possible to refer them to one common stock; and while $\cdot$ Nepaul and Cashmere have their own hreeds, we may well consider those of Egypt and Sinai as distinct, especially as they differ equally from those of Caucasus and of Europe. Tbe common hull is derived from the wild species which has become extinct in Europe, and is not identical with any of the wild species of Asia, notwithstanding some assertions to the contrary. The hog descends from the common boar, now found wild over the whole temperate zone in the Old World. Both ducks and geese have their wild representatives in Europe; so also the pigeon. As for the common fowls, they are decidedly of east Asiatic origin; hut the period of their importation is not well known, nor even the wild apecies from which they are derived. The wild turkey is well known as an inhahitant of the Amcrican continent.
Now, taking further into account the special distribution of all the animals, wild ns well ns domesticated, of the European temperate zone, toe may sub-divide it into the following eight faune: -1 1st, Scandinavian fauna; 2d, Russian fauna; 3d, The fauna of Central Europe; 4th, The fauna of Southern Europe; 5th, The fauna of Iran; 6th, The Syrian fauna; 7th, The Egyptian fauna; and 8th, The fauna of the Atlas. The special works upon the zoology of Earope, the great works illustrative of the French expeditions in Egypt, Moroceo, and Algiers, the travels of Rüppell and Russeger in Egypt and Syria, of M. Wagner in Algiers, of Demidoff in southern Russia, \&c. \&c., and the special treatises on the geographical distribution of mammalia by A. Wagner, and of animala in general by

Schmarda, may furnish more details upon the zoology of these countries.
Here, again, it cannot escape the attention of the careful observer, that the European zoological realm is circumscribed within exactly the same limits as the so-called wbite race of man, including, as it does, the inhabitants of south-western Asia, and of north Africa, with the lower parts of the valley of the Nile. We exclude, of course, modern migrations and historical changes of habitation from tbis assertion. Our statements are to be understood as referring ouly to the aboriginal or ante-historical distribution of man, or rather to the distribution as history finds it. And in this respect there is a singular fact, which historians seem not to have sufficiently appreciated, that the earliest migrations recorded, in any form, show us man meeting man, wherever he moves upon the inhabitable surface of the globe, strall islands excepted.
It is, fartber, very striking, that the different sub-divisions of this race, even to the limits of distinct nationalities, cover precisely the same ground as the special faune or zoological provinces of this most important part of the world, which in all ages has been the scat of the most adranced civilization. In the south-west of Asia we find (aloug the table-land of Iran) Persia and Asia Minor; in the plains southward, Mesopotamia and Syria; along the sea-shores, Palcatine and Phœnicia; in the valley of the Nile, Egypt; and along the southern shores of Africa, Barbary. Thus we have Semitic nutions covering the north Africen and south-west Asiatic fauna, while the south European peniasulas, including Asia Minor, are inhabited by Graco-Roman nations, and the cold, temperate zone, by Celto-Germanic nations; the eastern range of Europe being peopled by Sclaves. This coincidence may justify the inference of an independent origin for these different tribes, as soon as it can be admitted that the races of men were primitively created in nations; the more so, since all of them claim to have been autochthones of the countries they inhalit. This claim is so universal that it well descrves more attention. It may be more deeply founded than historians, generally, seem inclined to grant.
/ The third column of our Tableau cxlibita the animals characteristic of the temperate part of the Europan zoological realm, and shows their close resemblance to those of the corresponding Asiatic fuuna; the species being representative species of the same genera, with the exception of the musk-deer, which has no analogues in Europe.

Though temperate America resembles closely, in its animal creathos, the countries of Europe and Asia belonging to the same zone, ne meet with physical and organic features in this continent which
differ entirely from those of the Old World. The tropical realms, connected there with those of the temperate zone, though bound together hy some analogies, differ essentially from one another. Tropical Africa has hardly any species in common with Europe, though we may remember that the lion once extended to Greece, and that the jackal is to this day found upon some islands in the Adriatic, and in Morea. Tropical Asia differs equally from its temperate regions, and Australia forms a world by itself. Not so in southern America. The range of mountains which extends, in almost unbroken continuity, from the Arctic to Cape Horn, cstablishes a similarity hetween North and South America, which may be traced also, to a great degree, in its plants and animals. Entire families which are peculiar to this continent have their representatives in North, as well as South America, the cactus and didelphis, for instance; some species, as the puma; or American lion, may even he traced from Canada to Patagonia. In connection with these facts, we find that tropical America, though it has its peculiar types, as characteristic as those of tropical Africa, Asia, and Australia, does not furaish analogues of the giants of Africa and Asia; its largest pachyderms being tapirs and pecarie, not elephants, rhinoceroses, and hippopotami; and its largest ruminants, the llamas and alpaces, and not camels and giraffes; whilst it reminds us, in many respects, of Australia, with which it has the type of marsupials in common, though ruminante and pachyderme, and even monkeys, are entirely wanting there. Thus, with due qualification, it may be said, that the whole continent of America, when compared with the corresponding twin-continents of Europe - Africa or Asia- Australia is characterized by a much greater uniformity of its natural productions, comhined with a special localization of many of its suhordinate types, which will justify the estahlishment of many special faune within its boundaries.

With these facts hefore us, we may expect that there slould be no great diversity among the tribes of man inhabiting this continent; and, indeed, the most extensive investigation of their peculiarities has led Dr. Morton to consider them as constituting hut a single race, from the confines of the Eqquimaux down to the southernmost extremity of the continent. But, at the same time, it should be remernhered that, in aecordance with the zoological character of the whole realm, this race is divided into an infinite number of small tribes, presenting moro or less difference one from another.
As to the special faune of the American continent, we may distinguish, within the temperate zone, a Canadian fauna, extending from Newfoundland across the great lakes to the base of the Rocky moun-
tains, a fauna of the North American table-land, a fauna of the Northwest coast, a fauna of the midale United States, a fauna of the southern United States, and a Californian fauna, the charncteristic features of which I ahall describe on another occasion.
When we consider, however, the isolation of the American continent from those of the Old World, nothing is more striking in the geographical distribution of animais, than the exact correspondence of all the animals of the northern temperate zone of America with those of Europe : all the characteristic forms of which, as may be seen hy the fourth column of our Tableau, belong to the same genera, with the exception only of a few suhordinate types, not represented among our figures - such as the opossum and the skunk.

- In tropical America we may distinguish a Central American fauna, n Brazilian fauna, a fauna of the Pampas, a fauna of the Cordilleras, a Peruvian fauna, and a Patagonian fauna; but it is unnecessary for our purpose to mention here their characteristic features, which may he gathered from the works of Prince New Wied, of Spix and Martius, of Tschudi, of Pöppig, of Ramon de la Sagra, of Darwin, \&c.

The slight differences existing hetween the fauno of the temperate zone have required a fuller illustration than may he necessary to characterize the zoological realms of the tropical regions and the southern hemisphere geverally. It is sufficient for our purpose to say here, that these realms are at onee distinguished by the prevalence of peculiar typee, circumscrihed within the natural limits of the three continents, extending in complete isolation towards the southern pole. In this reapect there is already a striking contrast between the northern and the southern hemisphere. But the more closely we compare them with one another, the greater appear their differences. We have already seen how South America differs from Afriea, the Enst Indies, and Australia, hy ite closer connection with North America. Notwithstanding, however, the ahsence in South America of those sightly animals so prominent in Africa and tropical Asia, its general charncter is, like that of all the tropical continents, to nourish a variety of types which have no close relations to those of other continents. Its monkeys and edentats beloug to genera which have no representatives in the Old World; among pachyderms it has pecaria, which are entirely wanting elsewhere; and though the tapirs occur also in the Sunda Islands, that type is wanting in Africe, where in compensation we find the hippopotamus, not found in either Asin or America. We have already seen that the marsupials of South America differ entirely from those of Austraia. Its ostriches differ also generically from those of Africa, tropical Asia, New Holland, \&c.
If we compare further the southern continents of the Old World
with one another, we find a certain uniformity between the animals of Africa and tropical Asia. They have hoth elephants and rhinoceroses, though each has its peculiar specics of these genera, which occar neither in America nor in Australia; whilst cercopitheci and antilopes prevail in Africa, and long-armed monkeys and stage in tropical Asia. Moreover, the black orange are peculiar to Africa, and the red orangs to Asia. As to Australia, it has neither monkeys nor pachyderms, nor edentata, but only marsupials and monotremes. We need therefore not carry these comparisons further, to be satisfied that Africa, tropical Asia, and Australia constitute independent zoological realms.

The continent of Africa south of the Atlas has a very uniform zoological character. This realm may however be subdivided, according to its local peculiarities, iuto a number of distinct faune. In its more northern parta we distinguish the fauna of the Sahara, and those of Nuhia and Abyssinia; the latter of which extends over the Red Sea into the tropical parta of Arabia. These fauno have been particularly stadied by Rüppell and Ehrenberg, in whose works more may be found respecting the zoology of these regions. They are inhahited hy two distinct races of men, the Nuhians and Abyssinians, receding greatly in their features from the woolly-haired Negroes with flat hroad noses, which cover the more central parta of the continent. But even here we may distinguish the fauna of Senegal from that of Guinea and that of tho African Tahle-land. In the first, we notice particularly the chimpanzee; in the sccond, the gorilla. There is no anthropoid monkey in the third. The fifth column in our Tahleau gives figures of the most prominent animals of the genuine West African type. A fuller illustration of this sulject might show, how peculiar tribes of Negroes cover the limits of the different faune of tropical Afriea, and establish in this respect a parnllelism between the nations of this continent and those of Europe. We are chiefly indebted to French naturalists for a better knowledge of the Natural History of this part of the world. In the sixth column of our Tahleau we have represented the animals of the Cape-lands, in order to show how the African fauna is modified upon the southern extremity of this continent, which is inhalited by a distinct race of men, the Hottentots. The zoology of South Africa may be atudicd in the works of Liehtenstein and Audrew Smith.

The East Indian realm is now very well known zoologically, thanks to the efforta of English and Dutch naturalista, and may be subdivided into three faune, that of Dukhun, that of the Indo-Chinese peninsula, and that of the Sunda Islands, Borneo, and the Philippines. Its. characteristic animals, represented in the seventh column of our

Tuhleau, may be readily contrasted with those of Africa. There is, bowever, one feature in this realm, which requires particular attention, and has a high importance with reference to the study of the races of men. We find here upon Borneo (an island not so extensive as Spain) one of the best known of those anthropoid monkeys, the orang-outan, and with him as well as upon the adjacent islands of Java and Sumatra, and aloug the coasts of the two East Indian peninsulx, not less than ten other different species of Hylohates, the longarmed monkeys; a genus which, next to the orang and chimpanzee, ranks nearest to man. One of these species is circumscribed within the Island of Java, two along the coast of Coromandel, three upon that of Malacea, and four upon Borneo. Also, eleven of the highest organized beings which have performed their part in the plan of the Creation within tracts of land inferior in extent to the range of any of the historical nations of men! In accordance with this fact, we find three distinct races within the boundaries of the East Indian realm: the Telingan race in anterior India, the Malaya in posterior India and upon the islands, upon which the Negrillos occur with them. Such comhinations justify fully a comparison of the geographical range covered hy distinct European nations with the narrow limits occupied upon earth hy the orangs, the chimpanzees, and the gorillas; and though I still hesitate to assign to cach an independent origin (perhaps rather from the difficulty of divesting myself of the opinions universally received, than from any intrinsic evidence), I must, in presence of these facts, insist at least upon the probability of such an independence of origin of all nations; or, at least, of the independent origin of a primitive stock for each, with which at some future period migrating or conquering tribes have more or less completely amalgamated, as in the case of mixed nationalities. The evidence adduced from the affinities of the languages of different nations in favor of a community of origin is of no value, when we know, tbat, among vociferous animala, cvery specics has its peculiar intonations, and that the different species of the same family produce sound as closely allied, and forming as natural comhinations, as the so-called IndoGermanic languages compared with one another. Nobody, for instance, would auppose that because the notes of the different species of thrushes, inhabiting different parts of the world, bear the closest affinity to one another, these birds must all have a common origin; and yet, with reference to man, philologista still look upon the affinitics of languages as affording direct evidence of such a community of origin, among the races, even though they have already dincovered the must essential differences in the very structure of these langnages. - Ever since New Molland was discovered, it bas been known
ns the land of zoological marvels. All its animals differ so completely from those of other parts of our globe, that it may be said to constitute a world in itself, as isolated in that respect from the other continents, as it truly is in its physical relations. As a zoological realm, it extends to New Guinea and some adjacent islands. New Holland, however, constitutes a distinct fauna, which at some future time may be still further subdivided, differing from that of the islands north of it. The characteristic animals of this insular continent are represented in the eighth column of our Tableau. They all belong to two families only, considering the class of mammalis alone, the marsupials, and the monotremes. Besides these are found bats, and mice, and a wild dog; but there are neither true edentats, nor ruminants, nor pachyderms, nor monkeys, in this realm, which is inhabited by two races of men, the Australian in New Holland, and the Papuans upon the Islands. The isolation of the zoological types of Austratia, inhabiting as they do a continent partaking of nearly all the physicas features of the other parts of tbe world, is one of the most striking evidences that the presence of animals upon earth is not determined by physical conditions, but established by the direct agency of a Creator.

Of Polynesia, its races and animals, it would be difficult to give an idea in such a condensed picture as tbis. I pass them, therefore, entirely unnoticed. The mountain faune have also been omitted in our Map from want of space.

Before closing these remarks I should add, that one of the greatest difficulties naturalista have met with, in the study of the human races, has heen the want of a standard of comparison by which to estimate the value and importance of the diversities observed hetween the different nations of the world. But (since it is idle to make assertions upon the character of these differenees without a distinct understanding respecting the meaning of the words constantly used in reference. to the subject), it may be proper to ask here, What is a species, what // a variety, and what is meant hy the unity or the diversity of the races?
In order not to enter upon debateable ground in answering the first of these questions, let us begin by considering it with reference to the animal kingdom; and, withoutalluding to any controverted point, limit ourselves to animals well known among us. We would thus remember that, with universal consent, the horse and asa are considered as two distinct species of the same genus, to which belong several other distinct species known to naturalists onder the names of zebra, quagga, danw, \&c. The buffalo and the bull are also distinct species of another genus, embracing several other foreign apecies. The black hear, the white bear, the grizzly bear, give another example
of three different species of the same genus, \&c. \&c. We might select many other examples among our common quadrupeds, or among hirds, reptiles, fishes, \&c., but these will be sufficient for our purpose. In the genus horse we have two domeaticated species, the common horse and the donkey; in the genus bull, one domesticated species and the wild huffalo; the three species of bear mentioned are only found in the wild state. The ground upon which these animale are considered as distinct species is simply the fact, that, since ther have been known to man, they have always preserved the same characteristics. To make specific difference or identity depend upon genetic succession, is hegging the principle and taking for grented what in reality is under discussion. It is true that animals of the same species are fertile among themeelves, and that their ferundity is an easy test of this natural relation; hat this character is not exclusive, aince we know that the horse and the asa, the huffilo and our cattle, like many other animals, may he crossed; we are, therefore, not justified, in doubtful cases, in considering the fertility of two animals as decisive of their specific identity. Moreover, generatiou is not the only way in which certain animals may multiply, as there are entirc classes in which the larger number of individuals do not originate from eggs. Any definition of apecies in which the question of generation is introduced is, therefore, whjectionable. The assumption, that the fertility of cross-hreeds is necessarily limited to one or two generations, does not alter the case; since, in many instances, it is not proved beyond dispute. It is, however, beyond all question that individuals of distinct species may, in certain cases, be productive with one another, as well as with their own kind. It is equally certain that their offspring is a half-breed; that is to say, a heing partaking of the peculiarities of the two parents, and not identical with either. The only definition -of species meeting all these difficultiea is that of Dr. Morton, who $\smile$ characterizes them as primordial organic forms. Species aro thus distinct forms of organic life, the origin of which is lost in the primitive establighment of the state of things now existing, and varieties are such modifications of the species as may return to the typical form, under temporary influences. Accepting this definition with the qnalifications just mentioned respecting hybridity, I am prepared to show that the differenees existing between the races of mes are of the aame kind as the differences observed between tho different families, genera, and species of monkeys or other animals; and that these different species of animals differ in the same degree one from the other as the races of men-nay, the differences between distinct mees are often greater than tbose distinguishing specics of
animals one from the other. The cbimpanzee and gorilla do not differ more one from the other than the Mandingo and tho Guinea Negro: they together do not differ more from the orang than the Malay or white man differs from the Negro. In proof of this assertion, I need only refer the reader to the description of the anthropoid monkeys published by Prof. Owen and by Dr. J. Wyman, and to such descriptions of the races of men as notice more important peculiarities than tho mere differences in the color of the skin. It is, however, but fair to exonerate these authors from the responsibility of any deduction $I$ would draw from a renewed examination of the same facts, differing from theirs; for I maintain distinctly that the differonces observed among the races of men are of the same kind and even greater than those apon which the anthropoid monkeys are considered as distinct species.

Again, nobody can deny tbat the offspring of different races is always a half-breed, as between animals of different species, and not a child like either its mother or its father. These conclusions in no way conflict with the idea of the unity of mankind, which is as close as that of the mexohers of any well-marked type of animals; and whosoever will consult history must remain satisfied, that the moral question of brotherhood among men is not any more affected hy these views than the direct obligations hetween immediate blood relations. Unity is determinal by a typical structure, and hy the similarity of natural abilities and propensities; and, unless we deny the typical relations of the cat tribe, for instance, we xnust admit that unity is not only compatible with diversity of origin, but that it is the universal law of nature.
This coincidence, hetween the circumscription of the races of man and the natural limits of different zoological provinces characterized by peculiar distinct species of animals, is one of the most important and unexpected features in the Natural History of Mankind, which the study of the geographical distribution of all the organized beings, now existing upon earth, has disclosed to us. It is a fact which cannot fail to throw light, at some future time, upon the very origin of the differences existing among men, since it shows that man's physical nature is modified hy the same laws as that of animals, and that any general results ohtained from the animal kingdom regarding the organic differences of its various types must also apply to man.

Now, there are only two alternatives hofore us at present:-
lst. Either mankind originated from a common atock, and all the different races with their peculiaritics, in their present distrihution, are to he ascribed to subsequent changes -
an assumption for which there is no evidence whatever, and which leads at once to the admission that the diversity among animals is not an original one, nor their distribution determined by a general plan, established in the heginning of the Creation;-or,
2d. We must acknowledge that the diversity among animals

* is a fact determined hy the will of the Creator, and their geographical distribution part of the general plan which unites all organized beings into one great organic conception: whence it follows that what are called human races, down to their specialization as nations, are distinct primordial forms of the type of man.
The consequences of the first alternative, which is contrary to all the modern results of science, run inevitably into the Lamarkian development theory, so well known in this country through the work entitled "Vestiges of Creation;" though its premises are generally adopted by those who would shrink from the conclusions to which they necessarily lead.

Whatever be the meaning of the coincidence alluded to above, it must in future remain an important element in ethnographical studies; and no theory of the diatrihution of the races of man, and of their migrations, can be satisfactory hereafter, which does not account for that fact.

We may, however, draw already an important inference from this investigation, which cannot fail to have its inflaence upon the farther study of the human races: namely, that the laws which regulate the diversity of animals, and their distribution upon earth, apply equally to man, within the same limits and in the same degree; and that all our liberty and moral responsibility, however spontaneous, are yet instinctively direeted by the All-wise and Omnipotent, to fulfil the great harmonies established in Nature.
L. A.

# EXPLANATIONS 

OP ז8：

TABLEAU ACCOMPANYINO PROF．AGABEIZ＇G \＆KRTVH．

## 1，－ARCTIG REAEM．

1．Mead－－tinmave［Finxims： 2d Epp．IG．Sea；1828；1．pl．13．］
2 Skull－Eximaur．［Hostor： CY．Amer．；p．70．No．1．］
2．White Dear（U＇ris marition）． ［Cofien：Rigne Anims；Athe，

4．Walrux（Trichance Rommarms）． ［CLFIN：op．ait；pl．44，Ag．1．］
5．Relndeer（Oroua Taranctua）， ［Crman：op．att，pl．87，flg．2］
4．Herp Seal（Hham granlandica）． ［88\＆7：Zocl：Manm．，5．pl．71．］
5．KightFible（Balona Mytiodu）． ［Cevini：ap．cit．；pl．100，ig．1．］
8．Eider Duck（Ancs mollitima）． ［A cdobor：Birdi；184；Ti pl． 103，ifg．1．］
 fotina）．［Lovpon；Enc．Plants； p． 8 （ 6 ，No．15，63k．］

## t．－MOMGOL REAMM

 Nal Bist Human Spacied；1848； pl，10，＂3 Mongol．＂${ }^{\text {］}}$
11．Bkull－Chirese．［Cunia：op． cit．；pl．8，Aq．iVi．］
12 Boar（Urtut Chiziantu）．［8curp axR：Silagthiers：㔚．pl． 141 DD ］．
13．Munk－deer（Morchur machiferw）． ［Guvar：op．cil．；pl．88．］
I4 Andlope（Antiope gutherome）． ［Screman：op，aih；pl．275．］
15．Gont（Capra siberior）．［8cstur ERE：op．cil；pl．281．］
14．Sheep（Oris Arpil）．［Curim： Joonographís：［．ph． 44 bis，19．1］
17．Yak（ $\mathrm{Bas}_{\text {gruntions）．［VAET：}}$ Ox Tribe；185l；p．4．］
III．－EUKOFEAN REALM．
18．Head－Cortas＇s portiolt．［Rigno Arion．；ALen，Hatmi；＂Mo dallon．＂）
19．8knll－Eurepeat，［Curitis ：op． cit．；pl，B，fg．1．］
 op．cis．；pl．139．］
21．BLag（Orvur Exaphas）．［8cmb ana：op．cit，；pl． 247 A．］
\＆Autlope（Anciope Rupiongra）， ［ScukEDEn：op．ail．；pl． 7 79．］

23．Ooat（Ozpra Pba）．［Scmimer op．cit．；pl． 28 lc c．］
24 Sheep（Ovi4 Yupimon）．Bcher－

25．Averochin（Bot UTH）．［VasEs： op．cil．；p．40．］

## IY，－AMERICAN RE员LM，

24．Heacion Indian OMaf．［M4x．Pe DE Wind：Trucelr；pl．3．］
27．Bk uli－Monord is Tenrease．－ ［Moaton：Cr．Amer．；pl．35．］
28．Boar（Urrat antericarises）．［Scestr䀧：cop．cit．；pl． 141 E．］
29．Sleg（Otra eirginianus）．［Scker－ ena ：op．6it：pl． 240 II．？
30．Antllope（Asfficmi／ara）．［J．S Pat．Off．Rep．1852；pt il pl．1．］
31．Ooat（Oppra americana）．［ $\sigma .8$ Pat．off；pi．6．］
82．Bibecp（Oxis pmotano）．［C．S． Pat Off；pl 5．］
53．Bieon（Ba4 amerionsa4）．［E，S］ Pod．Off：plij．］
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84．Head－Munabine Nepro－
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35．BLatl－Creole Negro，［LAt日合： Farioties of Man；p．8．］
36．Chlmpanseo（Troglodytes niger）． ［Covinn ：Xelgac An．；pl．i．Ag．1．］
87．Elephent（Etiphas afrionaur）． Curian ：Repre anim．；t．p．］
88．Rhinowron（R．bicornis）$[$［Sxery ： Souch Afrioa；PL 2．］
39．It ppopotamus（ $\boldsymbol{B}$ ．andphibriut）． ［\＄writ：Sheh Afrien ；pl．6．］
40．Wart－Hog（Phacocharar Piti
 328 A ．］
41．G1raffe（Guselarpardalin ai－ raffa）．［Curna：kenographic： L．pl．4．］
VI，－HOTTENTOT FAUNA．
私 Hesd－－Buphman．［Bay．Burte： Nat．Hisf．；pl．12．］
43 Ekull－Bushman［II4y，Surta op．cit．；pl．2．）
44．Hyensdenet（Prodelea Laianafif）． ［Him．du Huserm；xi．p．34．］
4．Quages（Equtus Ouagga）［Scme ats：op．cif．；pl．317．］

40 Rhlncceroe（R．Sinus）．IRatit ． South Africat ；pl．18．］
47．Cape पyrax（byrax arpenas） ［ScRamstr：cp．cit．；pl．240．］
48．Aat－onler（Oryatermen caperri．） ［Nowy Didt drHial．Nulurede； ［IV．p．182］
49．Cape OI（Dos oufftr）［ $\mathrm{Y}_{\operatorname{LaI}}$ Oz Tribe；p．8a．］

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60．ILead－Malay．［Fale：Nox． Ifind of Mantind；1848；p．M．］ 51，Skall－Malay．［Dencoumit Altas Anthropeli；pi．BI，Ag．6．） 82．Orang－Vun（Pilherw Satym）． ［TxMmatce：Manopaphied；H pL． 41. ）
53．Elephant（EIqpict indicus），$\rightarrow$ ［Scrembis ：op．cill；pl，817co］． G．Rhlnocerod（R．mondaicnu）．［Holus－ 7nch：Zool．Resparcher；1884．］
5S．TapIr（Tapirnt malayamal），一 ［1foparixid：op．cit．］
50．Stag（Certur Munljac）．Hows Fikid：op．cit）
67．Ox（Dot Arnec）．［Vagre：Ds Thase；p．111．j

VItI．－AUSTRALHAR REALM，
58．Head－Alfouroux．［CJTin：oge cil：：pl．8，Ag．1．］
69．Bरal］－Alfouror．［HAM．SETH： Nat，Hipl；pl．2］
60．Bpotled Oponam（Daryirnu Fir．）． ［Bctrexars ：ap．cil．；pl． 152 e．］
61．Ant－antar（Myrmentiel fas ciatur）．［TraMr．Zockegiox！See．； 1i．p．184］
62 Babbát（IMrmales Lagotir），一 ［Witmenods：Martupialr； 5 ． pl．18］
63．Phalanger（Fhalangista evipina）． ［WATEasoces：op．cet．；1．pl．8．］


65．Squittel（TVAavious viureus）．－ ［Wartifocse：op，cil，；L．p．82］
66．Kangaios（Nacropra pigante－ w）．（Watcmsocsz ；op．eil ；L p．© 1

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## EXPLANATIONS

ar ER
MAP ACCOMPANYING PROF. AGABEIZ'S EKETCH.

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## TYPES 0F MANKIND.

## INTRODUCTION.

Mr. Lure Burkr, the bold and able Editor of the London Ethnological Journal, defines Ethnology to be "a science which investigates the mental and physical differences of Mankind, and the organic laws upon which they depend; and which seeks to deduce from these investigations, principles of human guidance, in all the important relations of social existence." ${ }^{1}$ To the same author are we indebted not only for the most extensive and lucid definition of this term, but for the first truly philosophic view of a new and important science that we have met with in the English language.
The term "Ethnology" has generally been used as synonymous with "Ethnography," understood as the Natural History of Man; but by Burke it is made to take a far more comprehensive grasp - to include the whole mental and physical history of the various Types of Mankind, as well as their social relations and adaptations; and, under this comprehenaive aspect, it therefore interesta equally the philanthropist, the naturalist, and the statesman. Ethnology demands to know what was the primitive organic structure of each race? what such race's moral and psychical character?-how far a race may have been, or may become, modified by the combined action of time and moral and physical causes?-and what position in the social scale Providence has asaigned to each type of man?

[^33]Such is the scope of this science - born, we may say, withn our own generation - and we propose to examine mankind under the above two-fold aspect, while we point out some of the more salient results towards which modern investigation is tending. The press everywhere teems with new books on the various partitions of the wide field of Ethnology; yet there does not exist, in any language, an attempt, based on the highest scientific lights of the day, at a systemat: treatise on Ethnology in its extended sense. Morton was the first to conceive the proper plan; but, unfortunately, lived not to carry it out; and although the present volume falls very far below the just requirements of science, we feel assured that it will at least aid materially in suggesting the right direction to future investigators.

The grand prohlem, more particularly interesting to all readers, is that which involves the common origin of races; for upon the latter deduction hang not only certain religious dogmas, but the more practical question of the equality and perfectibility of races - we say "more practical question," because, wbile Almighty Power, on the one hand, is not responsible to Man for the distinct origin of human races, these, on the other, are accouutable to Him for the manner in which their delegated power is used towards each other.

Whether an original diversity of races he admitted or not, the permanence of existing pbysical types will not be questioned by any Arcbeologist or Naturalist of the present day. Nor, by such competent arbitrators, can the consequent permanence of moral and intellectual peculiarities of types be denied. The intellectual man is inseparable from the physical man; and the nature of the one cannot be altered without a corresponding change in the other.

The truth of these propositions had long been familiar to the master-mind of John C. Calhoun ; who regarded them to be of such paramount importance as to demand the fullest consideration from those who, like our lamented statesman in his day, wield the destinies of nations and of races. An anecdote will illustrate the pains-taking laboriousness of Mr . Calhoun to let no occasion slip wbence information was atiainable. Our colleague, G. R. Gliddon, happened to be in Washington City, early in May, 1844, on business of his father (United States' Consul for Egypt) at the State Department; at which time Mr. Calhoun, Secretary of State, was conducting diplomatic negotiatione with France and England, connected with the annexation of - Texas. Mr. Calhoun, suffering from indisposition, sent a message to Mr. Gliddon, requesting a visit at bis lodgings. In a long interview whicb ensued, Mr. Calhoun stated; that England pertinaciously contibued to interfere with our inherited Institution of Negro Slavery,
and in a manner to render it imperative that he should indite very strong instructions on the subject to the late Mr. Wm. R. King, of Alabama, then our Ambassador to France. He read to Mr. Gliddon portions of the manuscript of his celebrated letter to Mr. King, which, issued on the 12th of the following August, ranks among our ahlest national documents. Mr. Calhoun declared that he could not foresee what course the negotiation might take, but wished to be forearmed for any emergency. He was convinced that the true difficulties of the subject could not be fully comprehended without first considering the radical difference of humanity's races, which be intended to discuss, sbould he be driven to the necessity. Knowing that Mr. Gliddon had paid attention to the subject of African ethnology; and that, from his long residence in Egypt, be had enjoyed unusual advantuges for its investigation, Mr. Calhoun bad summoned him for the purpose of ascertaining what were the best sources of information in this country. Mr. Gliddon, after laying before the Secretary what he conceived to be the true state of the case, referred him for further information to several scientific gentlemen, and more particularly to Dr. Morton, of Pbiladelpbia. A correspondence ensued between Mr. Calhoun and Dr. Morton on the subject, and the Doctor presented to him copies of the Crania Americana and Agyptiaca, together with minor works, all of which Mr. Calhoun studied with no less pleasurc thar profit. He soon perceived that the conclusions which he had long before drawn from history, and from his personal ohservations in America, on the Anglo-Saxon, Ccltic, Teutonic, Frencb, Spanish, Negro, and Indian races, were entirely corroborated by the plain teachings of modern science. He beheld demonstrated in Morton's works the imporannt fact, that the Egyptian, Negro, several White, and sundry Yellow races, had existed, in their present forms, for at least 4000 years; and that it behoved the statesman to lay aside all current speculations about the origin and perfectibility of races, and to deal, in political argument, with the simple facts as they stand.

What, on the vital question of African Slavery in our Southern States, was the utihtarian consequence of Calhoun's memorable dispatch to King? Strange, yet true, to say, although the Englisb prese anxiously complained that Mr. Calhoun bad intruded Ethnology into diplomatic correspondence, a communication from the Forcign Office promptly assured our Government tbat Great Britain had no intention of intermeddling with the domestic institutions of other nations. Nor, from that day to this, has sbe violated ber formal. pledge in our regard. During a sojourn of Mr. Calhoun, on his retirement from office, with us at Mohile, we enjoyed personal opportunities of knowing the accuracy of the above facts, no less tban of receiving '
ample corrohorations illustrative of the inconvenience which true ethnological science might have created in philanthropical diplomacy, had it been frankly introduced hy a Calhoun.

No class of men, perhaps, understand better the practical importance of Ethnology than the statesmen of England; yet from motives of policy, they keep its agitation studiously out of sight. Dr. Prichard, when spenking of a helief in the diversity of races, justly remarks --
"If these opinions are not every day expressed in this country [England], it is becsuse the avowal of them is rastrained by a degree of odium that would be exoited by it" ${ }^{3}$

Although the press in that country has been, to a great extent, muzzled by government influence, we are happy to see that her periodicals are beginning to assume a holder and more rational tone; and we may now hope that the stereotyped errors of Prichard, and we might add, those of Latham,' will soon pass at their true value. The immense evils of false philanthropy are becoming too glaring to be longer overlooked. While, on the one hand, every true philanthropist must admit that no race has a right to enslave or oppress the weaker, it must be conceded, on the other, that all changes in existing institutions should be guided, not by fanaticism and groundless hypotheses, but by experience, sound judgment, and real cbarity.

[^34]In the broad field and long duration of Negro life, not a single civilization, spontaneous or borrowed, has existed, to adorn its gloomy past. The ancient kingdom of Meroe has been often pointed out as an exception, but this is now proven to be the work of Pbaraonic Egypaans, and not of Negro races. Of Mongolian races, we have the prolonged semi-civilizations of China, Japan, and (if they be classed
nu er the same head) the still feebler attempts of Peru and Mexico. What a contrust, if we compare with these,
"Caucasian progress, as exhibited in the splendid saccession of distinct civilizstions, from the ancient Egyptian to the racent Anglo-American, to which the Caucasian part of the apecies has given birlb."
. Nor when we examine their past bistory, their anatomical and physiological characters, and philological differences, are we justified in throwing all the Indo-European and Semitic races into one indivisible mass.
"Oar species is not a huge collection of perfectly similar haman beings, but an aggregation of a damber of aeparate groups or masses, having sucb sabordinate differences of organization that, neceasarily, they must underatand nature differently, and employ in life very diferent modes of procedure: Assemble together a Negro, a Mongol, a Shemite, an Armecian, a Scythian, a Pelaggiad, a Celt, and a German, and you will have before you not mere illustrations of an arbitrary claseification, bat positively distinct human beings men whose relations to the outer world are by no means the same."
"In all, ivdeed, there will be found the asme fundamental instincts and powers, the same obligation to recognized trutir, the same feeling for the beautiful, the same abstract sense of justice, the same necesiity of reverence; in all, the same liability to do wrong, knowing it to be wrong. These thinge excepted, however, what contrast, what variety! The representative of one race ia haughty and eagor to strike, that of another is meek and patient of injury; one has the gift of slow and continued perseverance, another can lebour only at interyals and violently; one is full of mirth and humour, another walks as if life were - pain; one is so failhful and clear in perception, that what he sees to-day be will report tuccurately a year bence; through the head of another there perpetally sings such a baiz of fiction that, even as he looks, realicies grow dim, and rooks, trees, and hills, reel before his poetic gaze. Whether, with phrenologists, we call these differences craniological; or whether, in the epirit of a deeper physiology, we adjourn the question hy refualng to connect them with aught less thas the whole corporeal organism-bone, chest, limhs, skin, muscle, and nerve; they ate, at all events, real and substantial; and Englishmen will never conceive the world as it is, will never be intelleotually its masters, until, realizing this as a fact, they shall remember that it is perfectly respectable to be so Asegrian, and that an Italian is not necessarily a rogne because he wears a moustache." ©
Looking hack over the world's history, it will be seen that human progress has arisen mainly from the war of races. All the great impulses which have been given to it from time to time have been the results of conquests and colonizations. Certain races would be stationary and barbarous for ever, were it not for the introduction of new hlood and novel influences; and some of the lowest types are hopelessly beyond the reach even of these salutary stimulants to melioration.
It has been naively remarked that -
"Climate has no influence in permanently altering the varieties or races of men; destroy them it mby, ad does, but it cannot convert them into any otber race; nor can this be done by an act of parliament; which, to a thoroughgoing Englighman, with all his amusing nationslitite, will appear as momething smazing. It has been tried in Fales, Ireland, und Caledonia, and failed." ${ }^{7}$

Not enough is it for us to know who and what are the men who
play a prominent part in these changes, nor what is the general character of the masses whom they infuence. None can predict how long the power or existence of these men will last, nor foretell what will be the character of those who succeed them. If we wish to predict the future, we must ascertain those great fundamental laws of humanity to which all human passions and buman thoughts must ultimately be subject. We must know universal, as well as individual man. These are questions upon which science alone has the right to pronounce.

> "Where, we ask, are the historic evidences of universal humen equality, or unity ? The farther we trace back the records of the past, the more broadly marked do we find all humen diversities. In no part of Europe, at the present day, can we discover the striking national contrasts which Tscitus desoribes, still leas those represented in the more enoient pages of Herodatus."

And nowhere on the face of the globe do we find a greater diversity, or more strongly-marked types, than on the monuments of Egypt, antedsting the Christian era more than 3000 years.

Dr. James Cowles Prichard, for the last half century, has been the grand orthodox authority with the advocates of a common origin for the races of men. Bis ponderous work on the "Pliysical History of Mankind" is one of the noblest monuments of learning and labour to be found in any language. It bas been the never-exhausted reservoir of knowledge from which most subsequent writers on Ethnology have drawn; but, nevertheless, as Mr. Burke has sagely remarked, Pricbard bas been the "victim of a false theory." He commenced, when adolescent, by writing a graduating thesis, at Edinburgb, in support of the unity of races, and the remainder of his long life was devoted to the maintenance of this first ixppression. We behold him, year after year, like a bound giant, struggling with increasing strength against the cords which cramp him, and we are involuntarily looking with anxiety to see him burst them asunder. But how few possess the moral power to break through a deep-rooted prejudico!

Prichard publisbed no less than three editions of his "Physical History of Mankind," viz. : in 1813, 1826, and 1847. To one, however, who, like ourselves, has followed him line by hine, throughout his whole literary life, the constant changes of his opinions, his "special pleading," and his cool suppression of adverse facts, leave hittle confidence in his judgment or his cause. He set out, in youth, by distorting history and science to suit the tbeological notions of the day; and, in his mature age, concludes the final chapter of his last volume ly abandoning the authenticity of the Pentateuch, whicb for forty years had been the stumbling-block of his life.

Dr. Prichard's defenee of the Book of Genesis, in the Appendix to
the fifth volume of his "Researches," is certainly a very extraordinary performance. Ie denies its genealogics; denies its chronology; denies all its historical and scientific details; denies that it was written by Moses; admits that nobody knows who did write it; and yet, withal, actually endeavours "to show that the sacred and canonical authority of the Book of Genesis is not injured."

We confess that we cannot understand why one half of the historical portion of a book should he condemned as false and the other received as true, when hoth stand upon equal authority. Nor do wo think that his dissection of other parts of the Old Testament leaves them in much better condition, as regards their account of human origins. Behold a sample:

On the degree of orthodoxy claimed by the erudite Doctor in respect to chronology, the following extract will speak for itself:
"Beyond that event [artival of Abrabam in Palealine,] we can never know how many centuries, nor even how many thousands of yeare, may bave elapsed since the first man of clay received the image of God, and the breath of life. Still, as the thread of genealogy has been traced, thongb probably with many great intervals, the whole duration of time from the beginning must epparently heve been within moderate bounde, and by no means so Fide and vast a space as the great periods of the Indian and Eggptinn fatuliste."

Instead of thus nervously shifting his scientific and theological grounds from year to year, how much more dignified, and becoming to hoth science and religion, would it have heen, had Prichard simply followed facts, wherever they might lead in science; and had he frankly acknowledged that the Bible really gives no history of all the races of Men, and hut a meagre account of one? He was indeed the victim of $a$ false theory; and we could not hut he struck hy the applicahility of the following pencil-note to his first volume (1813), written on the margin, just forty years ago, hy the late distinguished Dr. Thomas Cooper, President of South Carolina College:
"This is a book by an industrious compiler, but an inconciasive reasoner; be wears the orthodor costume of bis nation and his day. No man con be a good reasoner wbo is marked by cierical prejudices."

Alas! for his fame, Dr. Prichard continued to change his costume with the fashion ; and some truths of the Universe, most essential to

Man, have thereby been kept in darkness, that is, out of the popnlar sight, by erroneous interpretations of God's works.

Albeit, in his last edition, Pricbard evidently perceived, in the distance, a glimmer of light dawning from the time-worn monumente of "Old Egypt," destined eventually to dispel the obfuscations with which he had enshrouded the history of Man; and to destroy that darling unitary fabric on which all his energies had been expended. Had he hived but two years longer, until the mighty discoveries of Lbpsics were unfolded to the world, he would have realized that the honorable occapation of his long life had been only to accumulate facta, which, properly interpreted, shatter everything he had built upon them. In the preface to vol. iii., he says:
"If it should be found that, within the period of lime to which historical testimony extends, the distingaishing charactera of buman races have been constant and underiating, it would become s matter of great difficalty to reooncile this conclusion [i. e. the unity of all mankind,] with the inferencee already obtained from other considerstions."

In other words, if hypotheses, and deductions drawn from analogies among the lower animals, should be refuted by well-aseertained facts, demonstrative of the absolute independence of the primitive types of mankind of all existing moral and physieal causes, during several thousand years, Prichard himself concedes, that every argument heretofore adduced in aupport of a common origin for human families must be abandoned.

One of the main objects of this volume is to show, that the criterionpoint, indieated hy Priehard, is now actually arrived at; and that the diversity of races must be accepted by Science as a fact, independently of theology, and of all analogies or reasonings drawn from the animal kingdom.

It will be observed that, with the exception of Morton's, we seldom quote worke on the Natural History of Man; and simply for the reason, that their arguments are all based, more or less, on fabled analogies, which are at last proved by the monuments of Egypt and Assyria to be worthless. The whole method of trating the subject is herein changed. To our point of view, most that has been written on human Natural History becomes obsolete; and therefore we have not burthened our pages with citations from authors, even the most erudite and respected, whose views we consider the present work to have, in the main, superseded.

Such is not our coarse, however, where others have anticipated any conclusion we may have attained; and we are bappy to find that Jacquinot had previously recognized the principle which has overthrown Priebard's unitary scheme:
"If the great branches of the buman family have remeined distinct in the lapse of agea Whth their characteristicn fixed and unalterable, we ore justified in regarding mankind as divisible into distinet eperies." 10

Four years ago, in our "Biblical and Physical History of Man,"" we published the following remarks: -
"If the Unity of the Races or Species of Men be assumed, there are but three suppositions on which the diverity now seen in the white, bieck, and intermediate colors, can be eocounted for, ris.:
" 1 st A mirack, or direct act of the Almighty, in chapging one type into another.
" 2 d . The gradual action of Physical causes, such as climate, food, mode of life, sea
is 3d. Congenital, or accidental varieties
"There being no evidence whatever in favor of the fret bypothesis, we pass it hy. The second and third bave been sastained with signal ability by Dr. Prichard, in his Physical History of Mankiad."

Although, even then, thoroughly convinced ourselves that the second and third hypotheses were already refuted by facts, and that they would soon be generally ahandoned by men of science, we confess that we had little hope of seeing this triumph achieved so speedily; atill less did we expect, in this matter-of-fact age, to behold a miracle, which exists too, not in the Bible, but only in feverish imaginations, assumed as a scientific solution. Certain sectarians ${ }^{12}$ of the evangelical school are now gravely attempting, from lack of argument, to revive the old hypothesis of a miraculous change of one race into many at the Tower of Babel! Such notions, however, do not deserve serious consideration, as neither religion nor science has anything to do with unsustainable hypotheses.

The views, moreover, that we expressed in 1849, touching Physical Causes, Congenital Varicties, \&c., need no modification at the present day; but, on the contrary, will be found amply sustained by the progress of science, as set forth in the succeeding chapters. We make bold to add an extract from our opinions published at that time : -
"Is it not atrange that all the remarkable changes of type apoken of hy Prichard and others should have occurred in remote antehistoric times, and amongat ignorant erratio tribes: Why is it that no instance of these remarkable changea can be pointed out which edmits of conclusive evidence? The civilized nations of Europe hsve been for mady centuries gending colonies Lo•Asis, Africa, and America; amongat Mongols, Malays, Africans, and Indians; and why has no example occurred in any of these colonies to aubetentiate the argument? The doubtful examples of Prichard are refuted by othera, which he cites on the adverse side, of a positive nature. He gives axamples of Jews, Persians, Hiodoos, Arabs, \&ic., who bave emigrated to foreign climsers, and, at the end of one thousand or fifteen hundred years, have preserved their original types in the midat of widely diferent reces. Does nature anymbere operate by such opposite and contradictory lawa ?
"A few generations in animals are sufficient to produce all the changes they usually andergo from climate, and yet the races of men retain their leoding characteriatics for ages, without spproximating to sborigiagl types.
"In fact, 80 unsetisfactory is the argument besed on the influesce of climate to Prichard bimself, that be virtually absndons it in the following paragraph : 'It must be observed, sags be, "that the changes alluded to do not so oftan take place by alteration in the physical character of a whole tribe aimulcaneous? y , as by the springing up of some new congenital pecoliarity, which is afterwards propagaled, and becomes a charactar more or lass constant
in the progeny of the individusls in whom it first appeared, and is perhape gradually communicated by intermarriages to a whole atock or tribe. This, it is obrioas, can only happen in a long course of time.'
"We beg leave to fix your sttention on this vits! point. It is a commonly received error that the influenoe of a hot climate is graduslig exerted on successive geverations, until one species of mankind is compietely changed into another; a dark shade is impressed on the first, and transmitted to the aecond; another ahade is added to the third, which is handed down to the foorth; and eo on, through successive generntions, until the fair German is transformed, by climato, into the black African!
"This ides is prover to be falac, and is abandoned by the well-informed writers of all parties. A zunburnt cheek is never hasded down to succeeding generations. The exposed parts of the hody alone are tanned by the sun, and the ohildren of the white-skinned Earopeans in New Orleans, Mobile, and the West Indies, are born as fair es their ancestore, and would remain so, if casried back to e colder olimste. The same may be said of other aequired characters, (except those from want and disease.) They die with the individual, and are no more capable of transmisaion than a flattened head, mutilated limb, or tathooed skin. We repeat, thet this fact is settled, and challenge a deniel.
"The only argument left, then, for the advocates of the unizy of the baman species to fall back upon, is that of eomgental' varieties or pecaliarities, which are eaid to spring up, and he transmitted from parent to child, so as to form new races.
" Let us pause for a moment to illustrate this fanciful idea. The Negroes of Africa, for example, are admitted not to be offsets from some other race, which bave been gradually blackened and changed jo moral and physical type hy tbe action of climate; but it is asserted that, 'once in the fight of ages pash,' some geavine littie Negro, or rather many such, were born of Caucssian, Mongol, or other light-skinned parents, and then have turued about and changed the type of the inhehitnats of a whole continent So in Americs: the countless aborigines found on this continent, which we have reason to believe (aee Squier's work) were building mounds before the time of Abraham, are the offapring of a race changed by accidental or congenital warieties. Thas, too, old China, India, Australia, Oceanica, etc., all owe their types, pbyeical and mental, to congarital or accidental varieties, and all are deacended from Adam and Eve! Can buman oredulity go farther, or bumen ingennity invent any argament more absurd? Yet the whole groundwork of a common origin for some nine or tan handred millions of buman beings, embracing numerous distiect types, which are loat in an antiquity far beyond all records or abronology, sacred or profane, is nerrowed down to this 'baseless fabric.'
"In support of this argument, we are told of the Porcupine family of England, which inherited for some generstions a peculiar condition of the skiv, characterized by thickened warty excrescences. We are told also of the transmiasion from parent to child of club feet, oross eyes, six fingers, desfness, blindness, and many other familier examples of congenital peculiarities. But these axamples merely serve to disprove the argument they are intended to sastain. Did any one over hear of a clob-foot, cross-eyed, or six-fingered race, although such indipiduals are exceedingly common? Ard they not, on the contrary, always swallowed up and lost : Is it not strange, if there be ady truth in this argument, that no race has ever been formed from those congenital varieties which we know to oecur frequently, aind yet races should originate from congenital varieties which cannot be proved, and are not belieyed, by our best writers, ever to have exialed! No one ever saw a Negro, Mongol, or Indian, born from any hat his own apecies. Has any one heard of an Indinn child born from white or black parents in America, during more than two centaries that these racea have heen living here? Is not this brief and siraple statement of the case sufficient to gatisfy any one, that the diversity of apecies now seen on the earhb, candot be accounted for on the assumption of congenital or accidental origin? If a doubt remains, would it not be expelled by the recollection of the fact that the Negro, Tartar, and white man, existed, with their present types, at least one thousand years before Abrabam journeyed to Egypt is a suppiicant to the mighty Pharsoh ?
> "The unity of the buman apecies has also been stoutly maintained on paychological grounde Numerous attempta have been made to establish the inteliectual equelity of the dark races with the white; and the history of the past has been ranuecked for examples, but they are nowbere to be found. Can any one call the name of a full-blooded Negro who has ever written a page vorthy of being remembered!"

The avowal of the above views drew down upon us, as might have been expected, criticisms more remarkable for virulence of hostility, tban for the scieutific education of the critics. Our present volume is an evidence that we have survived these transient cavils; and while we have much satisfaction in submitting herein a mass of facts that, to the generality of readers in this country, will be surprising, we would remind the theologist, in the language of the very orthodox Hugh Miller (Footprints of the Creator), that
"The olergy, as sclas, suffer themselves to linger far in the resr of an intelligent and mocomplighed laity. Let them not shat their eyes to the danger which is obviously coming. The battle of the evidences of Christianity will have, as certainly to be fought on the fieid of physical soience, as it was contested in the lant age on that of the metaphysica."

The Physical bistory of Man has been likewise trammelled for ages by arbitrary systems of Chronology; more especially by tbat of the Hebrews, whicb is now considered, by all competent authorities, as altogether worthless beyond the time of Abraham, and of little value previously to that of Solomon; for it is in his reign that we reach tbeir last positive date. The abandonment of this restricted system is a great point gained; because, instead of being obliged to crowd an immense antiquity, embracing endless details, into a few centuries, we are now free to classify and arrange facts as the requirements of history and science demand.

It is now generally conceded that there exist no data by wbich we can approximate the date of man's firat appearance upon earth; and, for aught we yet know, it may be thousands or millions of years beyond our reach. The spurious systems, of Archbishop Usher on tho Hebrew Text, and of Dr. Hales on the Septuagint, being entirely broken down, we turn, unshackled by prejudice, to the monumental records of Egypt as our best guide. Even these soon lose themselves, not in the primitive state of man, but in his middle or perlaps modern ages; for the Egyptian Empire first presents itself to view, about 4000 years before Christ, as,tbat of a mighty nation, in full tide of civilization, and surrounded by other realms and races already emerging from the barbarous stage.

In order that a clear understanding with the reader may be eatablished in the following pages, it becomes necessary to adopt some common standard of chronology for facility of reference.

An esteemed correspondent, Mr. Bircb, of the British Muscum, aptly observes to us in a private letter-_" Althongh I can see what is
not the fact in chronology, I hnve not come to the conclusion of what is the truth." Such is precisely our own condition of mind; nor do we suppose that a conscientious student of the suhject, as developed under its own head at the close of this volume, can at the present hour obtain, for epochas anterior to Abraham, a eolution that must not itself be, vague for a century or more. Nevertheless, in Egyptian chronology, we follow the kystem of Lepsius by assaming the age of Menes at B. C. 3893; in Chincese, we accept Pantlier's date for the 1st historical dynasty at B. C. 2637 ; in Assyrian, the resnlta of Layard's last Journey indicate B. C. $\mathbf{1 2 5 0}$ as the probable extreme of that country's monumental chronicles; and finally, in Hebrew computation, we agree witb Lepsius in deeming Abraham's ern to approximate to B. C. 1500 . Our Supplement offers to the critical reader every facility of verification, with comparative Tables, the repetition of which is here superfluous.

To Egyptology, beyond all question, belongs the honor of dissipating those chronological fables of past generatione, continued belief in which, since the recent publication of Chev'r Lepsius's researches, implies simply the credulity of ignorance. One of his letters from the Pyramids of Memphis, in 1843, contained the following almost prophetic passage: ${ }^{3}$
"We are still busy with etruotares, sculptares, and inscriptions, which are to be classed, by means of the now more accurstely-determined groups of kings, in an epoch of bighlyflourishing civilization, es far back as the fourth Millennium before Christ. We cannot bufficiently impresa upon oureolves and otbere these bitherto inoredible dates. The more criticism is provoked by them, and forced to serfous exnmination, the betier for the cause. Conviction will soon follow angry criticisan ; and, finslly, those results will be attained, which are so intimately connected with every branch of antiquarian research."

We subscribe without rescrvation to the above sentiment; and hope we shall not he disappointed in the amount of "angry criticism" which we think the truths embodied in this volume are calculated to provoke. Scientific truth, exemplified in the annals of Astrouomy, Geology, Chronology, Geographical distribution of animals, \&c., has literally fought its way inch by inch through false theology. The last grand hattle between science and dogmatism, on the primitive origin of races, has now commenced. It requires no prophetic eye to foresee that ecience must again, and finally, triumph.

It may be proper to state, in conclusion; that the subject shall be trented purely as one of science, and that our colleague and ourself will follow facta wherever they may lead, without regard to imaginary consequences. Locally, the "Friend of Moses," no less tban other "friends of the Bible" everywhere, have been compelled to make large concessions to science. We shall, in the present investigation, treat the Scriptures simply in their historical and scientific bcarings.

On former occasions, and in the most respectful manner, we had attempted to conciliate sectarians, and to reconcile the plain teachings of science with theological prejudices; but to no useful purpose. In retura, our opinions and motives have been mierepresented and vilified by self-constituted teachers of the Christian religion! We have, in consequence, now done with all this; and no longer have any apologies to offer, nor favors of leniont criticism to ask. The broad banner of science is herein nailed to the mast. Even in our own brief day, we have beheld one flimsy religious dogma after another consigned to oblivion, while acience, on the otber hand, has been gaining strength and majesty with time. "Nature," says Luke Burke, "has nothing to reveal, that is not noble, and beautiful, and good."

In our former language,
"Man can ineent nothing in science or religion but faleehood; and the trath which he discovert are but feots or lawi which have emanated from the Creator. All science, therefore, may be regarded as a revelation from Hin ; and although newly-diecovered laws, or facth, in astare, may oonfliot with religions errort, which have been mritten and preached for centaries, they never can conflict with religions trubh. There mast be hamony between the works and the words of the Almighty, sud wherever they meen to conflict, the discond has been produced by the ignorance or wiokednens of man."

Mobizn, Augut, 1858.

## PARTI.

## CHAPTERI.

geographical distribution of animals, and tee races of men.

Haye all the living creatures of our globe been created at one common point in Asia, and thence been disseminated over its wide surface by degrees, and adapted to the varied conditions in which they have been found in historical times? or, on the other hand, have different genera and specics been created at points far distant from each other, with organizations suited to the circumstances in which they were originally placed?

Two schools have long exasted, diametrically opposed to each other, on this question. The first may be termed that of the Theological Naturalists, who still look to the Book of Genesis, or what they conceive to he the inspired word of God, as a text-hook of Natural History, as they formerly reputed it to be a manual of Astronomy and Geology. The second embraces the Naturahists proper, whose conclusions are derived from facts, and from the laws of God as revealed in bis works, which are immutahle.

Not only the authority of Genesis in matters of science, but the Mosaic authenticity of this book, is now questioned hy a very large proportion of the most authoritative theologians of the present day; and, inasmuch as ite language is clearly opposed to many of the wellestablished facts of modern science, we shall unhesitatingly take the henefit of this liberal construction. The language of Scripture touching the point now before us is so unequivocal, and so often repeated, as to leave no doubt as to the author's meaning. It teaches clearly that the Deluge was universal, that every living creature on the face of the earth at the time was destroyed, and that seeds of all the organized heings of after times were saved in Noah's Ark. The following is but a small portion of its oft-repeated words on this head: -


#### Abstract

"And the waters prevailed exceedingly upon the earth, and all the high bills that wera under the whole hearen, were covered. ** Fifteen cubite upward did the waters prevail and the mountains were covered. * * And all flesh died that moved apon the earth, both of forl, and of cattie, and of beast, and every cresping thing that creepeth upon the earth, and every man. All in whose nostrils weat the bresth of life; of all that. Was in the dry land. * * And Noah only remained alive, and they that were with him in the Ark." 14


Now we reiterate that speech cannot be more explicit than this; and if it be true, it must apply with equal force to all living creatures animals as well as mankind. It is really trifling with language to say, that the Text does not distinctly convey the idea that all the creatures of our day have descended from the seed saved in the Ark; or that they were all created within a certain area around the point at which Adam and Eve are supposed first to have had their heing.

Although the same general laws prevail throughout the entire Fauna and Flora of the globe, yet in the illustration of our subject, we restrict our remarks mainly to the class of Mammifere, hecause a wider range would lead heyond our prescribed limits.

It has been a popularly-received error, from time immemorial, that degrees of latitude, or in other words, temperature of countries, were to he regarded as a sure index of the color and of certain other pbysical characters in races of men. This opinion has heen supported hy many able writers of the present century, and even in the last few years hy no less authority than that of the distinguished Dr. Prichard, in the "Physical History of Mankind." A rapid change, however, is now going on in the public mind in this respect, and so conclusive is the recent evidence drawn from the monuments of Egypt and other sources, in support of the permanence of distinctly marked types of mankind, such as the Egyptians, Jews, Negroes, Mongols, American Indians, etc., that we presume no really well-informed naturalist will again be found advocating such philosophic heresies. Indeed, it is difficult to conceive how any one, with the facts hefore him, (recorded by Prichard himself,) in connection with an Ethnographical Map, should believe that climate could account for the endless diversity of races seen senttered over the earth from the earliest dewn of history.

It is true that most of the black races are found in Africa; but, on the other hand, many equally black are met with in the temperate climates of India, Australia, and Oceanica, though differing in every attribute except color. A black akin would seem to he the hest suited to hot climates, and for this reason we may snppose that a special creation of black races took place in Africa. The strictly white races lie mostly in the Temperate Zone, where they flourish best; and they certainly deteriorate physically, if not intellectually, when removed to hot climates. Their type is not in reality changed or ohliterated, bat they undergo a degradation from their primitive state, analogous
to the operation of disease. The dark-skinned Hyperboreans are found in the Frigid Zone; regions most congenial to their nature, and from which they cannot be enticed by more temperate climes. The Mongols of Asia, and the aborigines of America, with their peculiar types, are spread over almost all degrees of latitude.
So is it with the whole range of Mammifers, as well as birds, and other genera. The lightest and the darkest colors - the most gorgeous and most sombre plumage, are everywhere found beside each other; though brilliant festhers and calors are commoner in the tropics, where men are generally more or less dark.
Every spot on the earth's surface, from pole to pole - the moun. tains and valleys, the dry land and the water-bas its organized beings, which find around a given centre all the conditions necessary for their preservation. These living beings are as innumerable as the conditions of the places they inhabit; and their different stations are as varied as their instincts and habits. To consider these stations under the simple point of view of the distribution of hest on tbeir surface, is absolutely to see but one of the many secondary natural causes that influence organized beings.
Amidst the infinitude of beings spread over the globe, the Class of Mammifers stands first in organization, and at its head Zoologists have placed the Bimanes (Mankind). It is the least numerous, and its genera and species are almost entirely known.

This class is composed of about 200 genera, which may be divided into two parts. 1st. Those wbose habitations are limited to a single Zone. 2d. Those, on the contrary, which are scattered through all the Zones. There would at first seem to be a striking contrast between these two divisions; on the one side, complete immobility, and on the other, great mobility; but this irregularity is only apparent, for when we examine attentively the different genera, we find them governed by the same laws. Those of the first division, whose habitat is limited, are in general confined to a few species; while those of the second, on the contrary, contain many species, but wbich are themselves confined to certain localities, in the same manner as the fewer genera of the first division. Thus we find the same law governing species in both instances. We will cite a single example out of many. The White Bear is confined to the Polar regions, while other urine species inhabit the tempetate climates of the mountain chains of Europe and America; and finally, the Malay Bear, and the Bear of Borneo, are restricted to torrid climates.

We may then consider the different species of Mammifers as ranged under an identical law of geographical distribution, and that each species on the globe has its limited space, beyond which it does not
extend; and that every country on the globe, whatever may be its temperature, its analogies, or differences of climate, possesses its own Mammifers, different from those of other countries, belonging to its region alone. There are apparent exceptions to this law, but they are all susceptible of explanation. ${ }^{\text {s }}$

A few species are really common to the two continents, but only in the Arctic region. America and Asia are there united by icy plains, which may be easily traversed by certain animala; and, while the White Bear, the Wolf, the Red Fox, the Glutton, are common to both, the continents and climates may there be really considered as one. We shall show, as we proceed, that with a few exceptions in the Arctic region, the Fsunm and Florm of the two continents are entirely distinct, and that even the Temperate Zones of North and South America do not prasent the same types, although they are separated by mere table-lands, presenting none of the extremes of climate encountered in the Tropic of Africa.

But this immobility, imposed hy nature on its creatures, is illustrated in a still more striking manner if we turn to those Mammifers that inhabit the ocean, where there are no appreciable impediments, none of those infinitely varied conditions which are seen upon land, even in the same parallels of latitude. The temperature of the ocean varies all but insensibly with degrees of latitude; and among the immense crowd of animals that inhabit it, we find numerous families of Mammifers. Although endowed with great powers of locomotion, and notwithstanding the trifling obstacles opposed to them, they are, like animals of the land, limited to certain localities. The genera Calocephalus, Stemmatopes and Morse, are peculiar to the Northern Seas. In the Southern, on the contrary, we find the genern Otarie, Stenorynehus, Platyrynchus, \&c. Other species inhabit only hot or temperate regions.
The various apecies of Whales and Dolphins, despite their prodigious powers of locomotion, are confined each to regions originally aseigned them; and, while there is so little difference of temperature in the ocesn, that a human beiug might, in the mild season, swim with delight from the North Temperate Zone to Cape Horn, along either coast of America, there is no degree of latitude in which we do not discover species peculiar to itself.

After a resume of these and many kindred facts, M. Jacquinot uses this emphatic language:

[^35]Facts, therefore, point to numerous centres of creation, wherein we find creatures fixed, with peculiar temperaments and organizations, which are in unison with surrounding circumstances, and where all their natural wants are supphed. But the strongest barrier to voluntary displacements would seem to he that of instinct - that force, unknown and incomprehensible, which binds them to the soil that has witnessed their hirth.

While passing these sheets through the press, we have enjoyed the privilege of perusing The Geographical Dittribution of Animals and Plante, ${ }^{16}$ by our valued friend, Cenrles Pierering, M. D., Naturalist to the United States' Exploring Expedition under Captain Wilkes. This is to he "regarded as an introduction to the volume on Geographical Distrihation, prepared during the' voyage of the Expedition," and published in Volume IX. of the same compendium.

In connection with our own work, the utterance of Dr. Pickering's views is most opportune; because, with thorough knowledge of Egypt, derived from personal travels, and acquaintance with hieroglyphical researches, he has traced the Natural History of that country from the remotest monumental times to the present day. The various pictorial representations of Faune and Flore are thereby assigned to their respective chronological epochas; and, innemuch as they are identified with living species, they substantiate our assertions regarding the uncxceptional permanence of types during a period of more than 5000 years. Dr. Pickering's era for "the commencement of the Egyptian Chronological Reckoning" being B. C. 4493, ${ }^{17}$ we find ourselves again in unison'with him upon gencral principles of chronological extension.

The gradual introduction of foreign animals, plants, and exotic substances, into tbe Lower Valley of the Nile - the extinction of sundry species once indigenous to that soil, during the hundred and fifty human generations for which we possess conterporaneous registry -and the infinitude of proofs that such changes could not have been effected withont the intervention of these long historieal ages -are themes which Dr. Pickering has concisely and ingeniously elaborated: and althongh our space does not permit the citation of the numerous examples duly catalogued by bim, it affords us pleasure to concur in the following results, viz.:

It will become apparent, in its place, that the philological views now held by Bireh, De Rouge, and Lepsius, upon the primeval introduction of Semitic elements in Egypt, are confirmed by these indepen-
dent researches of Pickering into the Natural History of Egyptian animals and plants, as we trust will he now demonstrated through the monumental evidences of human physiology.

Let us next turn to the races of Mankind in their geographical distrinntion, and see whether they form an exception to the laws which have been eetablished for the other orders of Mammifers. Does not. the same physical adaptation, the same instinct, which binds animals to their primitive localities, bind the races of Men also? Those races inhabiting the Temperate Zones, as, for example, the whita races of Europe, have a certain degree of pliability, that enables them to bear climates to a great extent hotter or colder than their native one; but there is a limit heyond which they cannot go with impunity - they cannot live in the Arctic with the Esquimaux, nor in the Tropic of Africa with the Negro. The Negro, too, (like the Elephant, the Lion, the Camel, \&c.,) possesses a certain pliahility of constitution, which enables him to enter the Temperate Zone; hut his Northern limit stops far short of that of natives of this Zone. The higher castes of what are termed Caucasian rncee, are influenced by several causes in a greater degree tban other races. To them have beeu assigned, in all ages, the largest brains and the most powerful intellect; theirs is the mission of extending and perfecting civilizn-tion-they are by nature ambitious, daring, dominecring, and rectless of danger-impelled by an irresistihle instinct, they visit all climes, regardless of difficulties; but how many thousands are sacrificed aunually to climates forcign to their nature !

It should also be borne in mind, that what we term Caucasian races are not of one origin: they are, on the contrary, an amalgamation of an infinite number of primitive stocks, of different instincts, temperaments, and mental and physical characters. Egyptians, Jews, Arabs, Teutons, Celta, Sclavonians, Pelargians, Romans, Tberians, etc., etc., are all mingled in hlood; and it is impossihle now to go back and unravel this heterogeneous mixture, and say precisely what each type originally was. Such commingling of hlood, through migrations, wars, captivities, and amaigamations, is doubtless one means by which Providence carries out great ends. This mixed stock of many primitive races is the only one which can reailly be considered cosmopolite. Their infinite diversity of characteristics contrasts strongly with the immatable instincts of other human types.
How stands the ease with those races which have been less subjected to disturbing canses, and whose moral and intellectual structure is leas complex? Tho Greenlander, in his icy region, amidst poverty, hardship, and want, clings with instinctive pertinacity to his birthplace, in spite of all apparent temptatious - the Temperate Zone,
with its lusuries, has no charm for him. The Aficans of the Tropic, the Aborigines of America, the Mongols of Asia, the inhabitants of Polynesia, have remained for thousands of years where history first found them; and nothing but ahsolute want, or self-preservation, can drive them from the countries where the Creator placed them. These races have been least adulterated, and consequently preserve their original instincts and love of home. This truth is illustrated in a most remarkable degree hy the Indians of America. We still behold the amall remnants of acattered tribea fighting and dying to preserve the lands and graves of their ancestors.

We shall have more to say, in another chapter, on the amalgamation of races, hut may here remark, that the infusion of even a minute proportion of the blood of one race into another, produces a most decided modification of moral and physical character. A small trace of white blood in the negro improves him in intelligence and morality; and an equally amall trace of negro blood, as in the quadroon, will protect such individual against the deadly influence of climates which the pure white-man cannot endure. For example, if the population of New England, Germany, France, England, or other northern climates, come to Mobile, or to New Orleans, a large proportion dies of yellow fever: and of one hundred sach individuals landed in the latter city at the commencement of an epidemic of yellow fever, probably half would fall victims to it. On the contrary, negroes, under all circumstances, enjoy an almost perfect exemption from this disease, even though brought in from our Northern States; and, what is atill more remarksble, the mulattoes (onder which term we incinde all mixed grades) are almost equally exempt. The writer (J. C. Nort) has witnessed many hundred deaths from yellow fever, but never more than three or four cases of mulattoes, although hundreds are exposed to this epidemic in Mobile. The fact is certain, and shows how difficult is the problem of these amalgamations.
That negroes die out and would become extinet in New England, if cut off from immigration, is clearly shown by published statistics.
It may even be a question whether the strictly-white races of Earope are perfectly adapted to any one climate in America. We do not generally find in the United States a popuiation constitutionally equal to that of Great Britain or Germany; and we recollect once hearing this remark atrongly endorsed by Henhy Clay, although dwelhing in Kentucky, amid the best agricultural population in the country. Knox ${ }^{12}$ holds that the Anglo-Saxon race would hecome extinct in America, if cut off from immigration. Now, we are not prepared to endorse this assertion; but inasmuch as nature works not through a few generations, but through thousands of years, it is impossible to conjecture what time
may effect. It would be a curions inquiry to investigate the physiological causes which have led to the destruction of ancient empires, and the disappearance of populations, like Egypt, Assyria, Greece, and Rome. Many ancient nations were colonies from distant climes, and may have wasted away under the operation of laws that bave acted slowly hut surely. The commingling of different bloods, too, under the law of hybridity, may also have played an important part. Mr. Laxard tells us tbat a few wandering tribes only now stalk around the sites of the once-migbty Nineveh and Babylon, and that, but for the seulptures of Saraan and Sennacherib, no one could now ray what race constructed those stupendous cities. But let us retum from this digression.

To this inherent love of primitive locality, and instinctive dislike to foreign lands, and repugnance towards other people, must we mainly attribute the fixedness of the unhistoric types of men. The greater portion of the globe is still under the influence of this lar. In America, the aboriginal barbarous tribes cannot be forced to change their habits, or even persuaded to successful emigration : they are melting away from year to year; and of the millions which once inhabited that portion of the United States east of the Miscissippi river, all have vanished, but a few scattered families; and their representatives, removed by our Government to the Weatern frontier, are reduced to less than one hundred thousand. It is as clear as the sun at noon-day, that in a few generations more the last of these Red men will be numbered with the dead. We constantly read glowing accounts, from interested missionaries, of the civilization of these tribes; but a civilized full-blooded Indian does not exist among them. We see every day, in the suburbs of Mobile, and wandering through our streets, the remnant of the Choctaw race, covered with nothing but blankets, and living in bark tents, scarcely a degree advanced above brutes of the field, quietly abiding their time. No human ingenuity can induce them to become educated, or to do an honest day's work: they are supported entirely by begging, besides a little traffic of the squaws in wood. To one who has lived among American Indians, it is in vain to talk of civilizing them. You might as well attempt to change the nature of the buffalo.

The whole continent of America, with its mountain-ranges and table-lands-its valleys and low plains-its woods and prairies-exbibiting every variety of climate which could influcnce the nature of man, is inhabited by one great family, that presents a prevailing type. Small and peculiarly shaped crania, a cinnamon complexion, amail feet and hands, black straight hair, wild, savage natures, characterize
the Indian everywhere. There are a few trivial exceptions, easily accounted for, particularly on the Pacific coast.

The eastern part of Asia presents a parallel case. From $65^{\circ}$ north latitude to the Equator, it presents the greatest inequalities of surface and climate, and is peopled throughout by the yellow, lank-haired Mongols; the darkest families lying at the North, and the fairest at the South. Their crania, their instincts, their whole moral and physical charactoristics, distinguish them from the Ameriean race, which otherwise they most resemble.
The other half of this northern continent, that is to say Europe and the rest of Asia, may be divided into a northera and a southern province. The first extends from the Polar region to $45^{\circ}$ or $50^{\circ}$ north latitude-from Scandinavia to the Caspian Sea; and contains a group of men with light hair, complexion fair and rosy, and hlue eyes. The second or southern division, running north-west and south-cast, stretches from the British Isles to Bengal and the extremity of Hindostan - from $50^{\circ}$ to $8^{\circ}$ or $10^{\circ}$ north. This vast area is covered by people with complexions more or less dark, oval faces, black smooth hair, and black eyes.

Now, it is worthy of remark, that since the discovery of America, and during several centuries, the fuir races have inhahited North America extensively, while the dark races, as the Spaniards, have occupied' South and Central America, and Mexico; both have displaced the $\Delta$ boriginal races, and yet neither has made approximation in type to the latter, nor does any person suppose they conld in a hundred generations. And so with the Negroes, who have lived here through eight or ten generations. We have no more reason to suppose that an Anglo-Saxon will tura into an Indian, than imported cattle into buffaloes. Wo shall show, in another chapter, that the oldest Indian crania from the Mounds, some of which are probably several thousand years oid, hear no resemblance to those of any race of the old continent.

When we come to Africa, we shall perceive various groups of peculiar types occupying their appropriate zoological provinces, which they have inhabited for at least 5000 years. But, haring to develop some new views respecting Egypt in another place, we shall take up the races of the African continent in extenso.

Taking leave, for the present, of continents, lot us glance for a moment at New Holland. This immense country, extending from latitude $10^{\circ}$ to $40^{\circ}$ south, attesta a special creation-its population, its animals, hirds, insects, plants, etc., are entirely unlike those found in any other part of the world. The men present altogether a very peculiar type: they are black, but without the features, woolly heads,
or other physical characters of Negroes. Beyond, we bave Van Diemen's Land, extending to $44^{\circ}$ south latitude, which presents a temperate climate, not unlike that of France; and what is remarkable, its inhabitants, unlike those of New Holland, are black, with frizzled heads, and very similar to the African races.

Not far from New Holland, under the same paralicls, and extending even further south, we find New Zealand; where commences the besutiful Polynesian race, of light-brown color, smooth black hair, and alnost oval face. This raco extends from $50^{\circ}$ south, descends to the equator, then remounts to the Sandwich Islands, $20^{\circ}$ north scattered over islands without number - encircling about half the globe - withoat presenting any material differcnces in their color or forms-in a word, in their zoological characters.

India affords a striking illustration of the fallacy of arguments drawn from climate. We there meet witb people of all slades, from fair to hlack, who have been living together from time immenorial. We have the well-known testimony of - Bishop Heber, and others, on this point; and Desmoulins adds, "The Rohillas, who are blonds, and situated south of the Ganges, are surrounded hy the Nepauleans with hack skius, the Mahrattas with yellow skins, and the Bengalees of a deep hrown ; and yet the Rohillas inhabit the plain, and the Nepauleans the monntains." ${ }^{20}$ Here we have cither different races inhabiting the same climate for several thousand years without change; or the same race assuming every shade of color. Of this dilemma, the advocates of unity may choose either horn.

We might thus recite innumerable facts to the same effect, hat the labor would be superfluous.
The different shades of color in races have been regarded, hy many naturalista, as one of their most distinetive cbaracters, and still serve as the basis of numerous classifications; but M. Jacquinot thinks too much importance has been attached to colors, and that they cannot he relied upon. For example, all the intermediate shades from white to black are found in those races of oval face, large facial angle, amooth hair, ete., which Blumenbach has classed under the head Caucasian. Commence, for example, with the fair Fina and Sclavonians with blond hair, and pass successively through the Celts, Tberians, Italians, Greeks, Arabs, Egyptians, and Hindoon, till you reacb the inhabitants of Malabar, and you find these last to be as black as Negroes.

Araong the Mongols, likerrise, we encounter various shades. Amid the Africans there exist all tints, from the palc-yellow Hottentots, Bushmen, and duaky Caffres, to the coal-black Negro of the Tropic and confines of Egypt. In slort, the black color is beheld in Caucasinns,

Negroes, Mongols, Australians, etc., while yellows or browds are visible throughout all the above types, as well as among Americans, Malays, and Polynesians.

In the present mixed state of the population of the earth, it is perhaps impossible to determine how far this opinion of Jacquinot may be correct. We possess certainly many examples to prove that color bas been permanent for ages; while, on the contrary, it is impossible to show that the complexion of a pure primitive stock has been altered by climate. As before atated, we conceive that too much importance has been given to arbitrary classifications, and that the Caucasian division may include innumerahle primitive stocks. This fact is illustrated further on, particularly in the history of the Jews, whose type has been permanent for at least 3000 years. We have no reason to believe that the Hebrew race sprang from, or ever originated, any other type of man.

We therefore not merely regard the great divisions of Caucasian, Mongol, Malay, Negro and Indian, as primitive stocks, but shall establish that History, Anatomy, Physiology, Paychology, Analogy, all prove that each of these stocks comprehends many original subdivisions.

Let us acknowledgo our large indebtedness to Prof. Agaseiz, who has given the most masterly view of the geographical distribution of animals written in our language, or perhaps in any other. Not a line cau be retrenched from his already condensed articles without inflicting a wound, and we take much pleasure in referring the reader to them. ${ }^{22}$ He showe, conclusively, that not only are there numerous centres of creation, or zoological provinces, for our pending geological epoch, but that these provinces correspond, in a surprising manner, to those of former epochas; thus proving that the Crestor has been working after one grand and uniform plan through myriads of years, and through consecutive creations.
" It is satisfactorily aseertained at prosent, that there have been many distinct succossive periods, during each of Which large nambers of abimals and plants have been introduced upon the surface of our globe, to live and multiply for a time, then to disappear and be replaced by other kinds. Of auch disalnct periods - such auccossive creations - we know now at leat about a dozen, and there are emple indiestions thet the inhabitants of oar globe have been aucceasively ohanged at more epoehs then are yet fully escortained."

In the earliest formations; but few and distant patches of land having emerged from the mighty deep, the created beings were comparatively few, simple, and more widely disseminated; but yet many distinct species, adapted to localities where they were brought into existence, are discovcred. In the more recent fossil beds, we find a distribution of fossil rernains which agrees most remarkably with the present geographical arrangement of animals and plants. The fossils of modern geological periods in New Holland are types identical with
most of the animale now living there. Brazilian fossile belong to the same families as those alive there at the present day; though in both cases the fossil species are distinct from the surviving ones. If, therefore, the organized beings of ancient geological periods had arisen from one central point of distribution, to be dispersed, and finally to become confined to those countries where their remains now exist in a fossil condition; and if the animale now living had also spread from a common origin, over the same districts, and had these been circumscribed within equally diatinct limits; we should be led to the unnataral sapposition, argues Aasssiz, that animals of two distinct creations, differing specifically throughout, had taken the same lines of migration, had assumed finslly the same distribution, and had become permanent in the same regions without any other inducement for removal and final settlement, than the mere necessity of covering more extensive ground, after they had become too numerous to remain any longer together in one and the aame district.

Now it would certainly be very irrational to attribute such instincts to animals, were such a line of march possible; but the very possibility vanishes, however, when we reflect upon the wide-spread physical impediments opposing such migrations, and that neither the animals nor plants of one province can flourieh in an adverse one. No Arctic animale or plants can be propagated in the Tropics, nor vice versa. The whole of the Monkey tribe belong to a hot climate, are retained there by their temperaments and instincts, and cannot by any ingenuity of man be made to exist in Greenland. The same rule applies to the aboriginsl men of the Tropical and the Arctic regions.
Tbat the animals and plants now existing on the earth must be referred to many widely-distant centres of creation, is a fact which might, if necessary, be confirmed by an infinite number of circumstances; but these things are nowadays conceded by every wellinformed naturalist; and if we have deemed it necessary to illustrate them at all, it is because this volume may fall into the bands of some possibly not versed in such matters.

Another question of much interest to our present investigation is - Have all the individuals of each apecies of enimals, plants, \&c., descended from a single pair? Were it not for tbe supposed acientific nuthority of Genesis to this effect, the idea of community of origin would hardly have occurred to any reflecting mind, because it involves insuperable difficulties; and science can perceive no reason why the Creator ahould have adopted any such plan. Is it reasonable to suppose that the Almighty would have created one seed of grass, one
acorn, one pair of locusts, of bees, of wild pigeons, of herrings, of buffilocs, as the only starting-point of these almost ubiquitous species?

The instincts and habits of animals differ widely. Some are solitary; except at certain seasons; some go im pairs; others in herds or shoals. The idea of a pair of bees, locusts, herrings, buffaloes, is as contrary to the mature and habits of these creatures, as it is repugmant to the nature of oaks, pines, birches, \&c., to grow singly, and to form forests in their isolation. In some species males-in others, females predominate; and in many it would be easy to sbow, that, if the present order of things were reversed, the species could not be preserved - locusts and bees, for example: the former appear in myriads, and by far the greater number of those produced are destroyed; and though they have existed for ages, a naturalist cannot seo that they have increased, nor can be conceive how one pair could continue the species, considering the number of adverse chances. As regards becs, it is natural to have but one female for a whole hive, to whom many males are devoted, besides a large number of drones:
Again, Aanssiz gives this striking illustration :-
"There aro enimals which are impelled by nature 10 feed on other nnimals. Was the first pair of lions to abstain from food untal the gazeller and other antelopeg had muluplied stifficiently to pregerve their races from the persecution of these ferocious beasts?"
So with other carnivorous animals, hirds, fishes, and reptiles. We now behold oll their various species scattered through land and water in harmonious proportions. Thus they may continue for ages to come.

Hybridity has been considered a test for species; but, when we come to this theme, it shall be proven that, in many instances, what have been called varieties are really distinct species: hence, that hybridity is no test. All varicties of dogs and wolves, for example, are prolific inter se; yet we shall prove that many of them are specifically distinct, that is, descended from different primitive stocks at distant points of the globe. Agassiz has beautifully illustrated the fact by the natural history of lions. These animals present very marked varicties, extending over immense regions of country. They occupy nearly the whole continent of Africa, a great part of Southern Asia, as, formerly, Asia Minor and Greece. Over this vast tract of country sevaral varieties of lions are found, differing materis)ly in their physical characters: these varietios also are placed remotely from each other, and each one is surrounded by entirely distinct Faune and Florre: natural facts confirming the idea of totally distinct zoological provinces. It will readily he conceded by naturalists, that all the animals found in such a province, and nowhere else, must lave been therein created; and although lions may possess in common that
assemblage of characters which has been construed into evidence of community of species, yet it by no means necessitates community of origin. The same question here arises as in cousidering the varictics of mankind, with regard to the defiuition of the term species. We hold that a variety which is permanent, and which resists, without change, all known exterual causes, must be regarded as a primitive species-else no criteria exist by which science can be goverued in Natural History.

Monkeys afford another admirable illustration, and are doubly interesting from the fact of their near approach to the human family. The following paragraph is one of peculiar interest : -
" As already mentioned, the monkeya are entirely tropical. But here again we notice a rery intimste adaptation of their types to the particular continents; as the monkeys of tropical America constitute a family altogether distinct from the monkeys of the old world, there being not one species of any of the genera of Qundrumana, so numerous on this continent, found either in Asia or Africa. The monkegs of the Old World, again, constitute a nataral facoily by themeelves, extending equally over Africin and Asia; and there is even a close representative analogy between those of different parts of these twu continents - the orangs of Africa, the Chimpanzee and Orilla, corresponding to the red orang of Sumatra and Borneo, and the smaller long-armed species of continental Asia. And what is not a little remarkable, it the fact that the black orang ofectre upon that contipent which is inhabited by the black human race, while the brown orang inlabits those parts of Asia over which the chacolste-colored Malays have been developed. There is agsin a peculiar fumily of Quadrumane confoed to the Ieland of Madagascar, the Makis, which are entirely peculiar to Uat island and the eastern coast of Africa opposite to it, and to one bpot on the westers ebore of Afries. But in New Hollood and the adjacent islands there are no monkejs at all, though the climatic conditions seen oot to exclude their exiatence any more than those of the large Asiatic Islands, upon wbich such high types of this order are found. And these facts, more than any other, would indicate that the special adaptation of animals to particular districts of the surface of the globe is neither accidental nor dependent upon physicel conditions, but is implied in the primitive plan of creation italf. Whatever classes we may take into consideration, we shall find similar adaptolions, and though perhaps the greater uniformity of some families renders the difference of types in various parta of the world less striking, they are none the less real. Tho carnivora of tropical Asia are not the same as those of tropical Africa, or those of tropical America. Their birds sad reptiles present aimilar differences. The want of an ostrich in Asis, when we have one, the largest of the family, in Africa, and two distinct species in Southern America, and two cassomaries, one in New Holland and another in the Sunda Islands, sbowe this constant process of anelogous or representative species, repeated over different parta of the world, to be the principle regulating the distribution of namala; and the fact that these analogous apecies are diferent, again, cannot be reconciled to the iuen of common origin, as each type is peculine to the conntry where it in now found. These differences are mora striking in tropical regions than anywhere elec. The rhinoceres of the Sunda Islands differs from those of Africa, and there ore none in America. The elephant of Aain differs from that of Africa, and there are none in America. One topir ts found in the Sunda Islands; there are none in Africa, but we find one in Soutb Ameriea. . . . Every'where apecial adapLation, particular forms in ench continent, an omission of some allied type here, when in the next group it occurs all over the zone."

The same authority has so well expressed his opinion on another point, that we cannot resist the tẹptation of making an additional extract.
"We are thas led to distingoish specid provinces in the natural distribution of animals, and we may adopt the following division as the most astaral First, the Arelic province, with prevailing uniformity. Second, the Temperate Zone, with at least three distinct roological provinces - the European Temperate Zone, meat of the Ural Mountains; the Asiatic Tempersle Zone, east of the Ural Monatains; and the American Temperate Zone, which may he babdivided jnto two, the Eastern and Westorn, for the animals enet and weat of the Rocky Mouncaing differ aufficiently to eonstitute two distinct soological prorivers. Next, the Tropical Zone, containing the African Zoologicel province, which extenda over the main part of the Africen continent, jnoluding all the country south of the Atlas and north of the Cape colonies ; the Tropical Asiatic province, sonth of the great Himalayan chain, and including the Sunds Islands, whose Fsans has quite a eontinental character, and difers entirely from that of the Islands of the Pacific, as well as from that of New Holland; the American Tropical province, inoluding Central America, the Weat Indies, and Tropical South America New Holland constitutes in itself a special proviuce, notwithstanding the great differences of ite northern and southern climate, the animals of the whole continent preserving throughont their peculiar typical character. Bat it were a mistake to conceive that the Faude, or natural groupe of animale, are to be limited according to the boundaries of the mainlands. On the contrary, we may trace their natural limits into the ocean, and refer to the Temperate Earopesn Fanns the enstern shores of the Atlantic, we refer its western shores to the Amerieen Temperate Fauna Again, the eastern shores of the Pacific belong to the Western American Fanna, as the weatern Pacific shores belong to the Aiatic Fauna. In the Atiantic Ocean there is no peculiar Oceanio Fanna to be distingaished; but in the Pacific we bave such a $F$ sume, entirely marine in ita main charactar, though interspread with innumerahle islands, extending east of the Suadn Islands and New Holland to the western bhores of Tropical America. The islands west of this contineat seem, indeed, to have very slight relations, in their zoological charncter, with the western perta of the mainland. South of the Tropicel Zone we beve the Soath American Temperate Fanne end that of the Cape of Olood Hope, as other distinct noological prorincea Fan Diemen's Land, however, does not constitute a zoological province in itself, but helonge to the province of New Holland by its zoological character. Finally, the Antaretic Cirole encloses a special zoological province, including the Antarctic Fauns; Which, in a great measure, correaponds to the Arctic Fauna in its oniformity, though it differs from it in having chiefly a maritime character, while the Arctic Faun has an almost entirely continental appect
"The fact that the priscipal races of men, in their natural distribation, cover the eame extent of ground as the same xoological provinces, would go far to show that the differences which we notice between them are aloo primitive."
These facts prove conclusively that the Creator has marked out both the Old and New Worlds into distinct zoological provinces, and that Faunm and Florex are independent of climate or other known physical canses; while it is equally clear that in this geographical distribution there is evidence of a Plan - of a design ruling the climatic conditions themselves.
It is very remarkable, too, that while the races of men, and the Fauna and Flora of the Arctic region, present great unifornity, they follow in the different continents the same general law of inereasing dissimilarity as we recede from the Arctic and go South, irrespectively of climate. We have already shown that, as we pass down through America, Asin, and Africa, the farther we travel the greater is the digsimilarity of their Faune and Flore, to their very terminations, even when compared together in the same latitudes or zones; and an
examiration will show, that differences of types in the human family become more strongly marked as we recede from the Polar regions, and reach their greatest extremes at those terminating points of contincnts where they are most widely separated by distance, although occupying nearly the same parallels of latitude, and nearly the same climates. For instance, the Fuegians of Cape Horn, the Hottentots and Bushmen of the Cape of Good Hope, and the inhabitants of Van Diemen's Land, are the tribes which, under similar parallels, differ most. Such differences of races are scarcely lese marked in the Tropics of the earth; as testified by the Negro in Africa, the Indian in America, and the Papuan in Polynesia. In the Tempernte zone, we have in the Old World the Mongolians and the Caucasians, no less than the Indians in America, living in similar climatee, yet wholly dissimilar themselves.
History, traditions, monuments, osteological remains, every literary record and scientific induction, all show that races have occupied aubstantially the same zones or provinces from time immemorial. Since the discovery of the mariner's compass, mankind have been more disturbed in their primitive seats; and, with the increasing facilitics of communication by land and sea, it is impossible to predict what changes coming ages may bring forth. The Caucasian races, which have always been the representatives of civilization, are those alone that have extended over and colonized all parta of the globe; and much of this is the work of the last three hundred years. The Creator has implanted in this group of races an instinct that, in spite of themselves, drives them through all difficulties, to carry out their great mission of civilizing the earth. It is not reason, or philanthropy, which urges them on; hut it is destiny. When we see great divisions of the human family increasing in numbers, spreading in all directions, encroaching by degrees upon all other races wherever they can live and prosper, and gradually supplanting inferior types, is it not reasonable to conclude that they are fulfilling a law of nature?

We have always maintained diversity of origin for the whole range of organized beings. If it be granted, as it is on all hands, that there have been many centres of creation, instead of one, what reason is there to suppose that any one race of animals has sprung from a single pair, instead of being the natural production of many pairs? And, as was written by us many years ago, "if it be conceded that there were two primitive pairs of human beings, no reason can be assigned why there may not have been bundreds." a

Aasbsiz thus expresses himeelf:-

[^36]the same countries, and have originated there in the same numerical proporlions and over the amme area in which they now occur; for these conditions are the conditions necessary to their maintenance, and what emong organized beings is essential to their temporal existence must be at least one of the conditions ander which they were created.
"We maintain that, like all organized baingg, mankind cannot have originated in singlé individuals, but must bave been created in that numerical harmony which is characteristic of each species. Men must have originated in nationt, as the bees bave originated in swinms, and, as the diferent social plants, hape covered the extensive tracts over which they have naturally spread."

We remarked, in the commencement of this chapter, that M . Agassiz had presented his views in such $n$ condensed and irrefiagable manner, that it would be impossible to attempt a resumé, or to do him justice without repeating the whole of his article; but although we have already borrowed frecly, we cannot refrain from a concluding paragraph, our object being rather to give a synopsis, or "posting up" to date, of fucts illustrative of our subject, than to claim any great originality: if we can bring the truth out, our goal is attained.

[^37]animale, the diseonaection of the climatic conditions where we have similnr races, and the convection of climatic conditions where we have different human races, ghows further, that the adaptation of different races of men to different parts of the world must be intentional, as well as that of other beings; that men rere primitively located in the rarious parts of the world they inhabit, and that they arose everwbere in those harmonious numeric proportions with other living beings which would at once secure their preservation and contribute to their welfare. To suppose that all men originated from Adam and Eve, is to assume that the order of creation has been changed in the course of historical times, and to give to the Mosaic record a meaning that it was never intended to have. On that ground, we nonid particularly insist upon the propriety of considering Genesis as ohiefiy relatiog to tho history of the white race, wilh epecial reference to the history of the Jews."

Zoologically, the races or species of mankind obey the same organic laws which govern other animals: they have their geographical Ioints of origin, and are adapted to certain external conditions that cannot be changed with impunity. The natives of one zone cannot always be transferred to another without deteriorating physically and mentally. Races, too, are governed by certain psychological influcnces, which differ among the species of mankind as instincts vary anong the species of lower animals. These psychological characteristics form part of the great mysteries of human nature. They seem often to work in opposition to the plysical necessities of races, and to drive individuals and nations beyond the confines of human reason. We sce around us, daily, individuals oheying hlindly their psychological instincts; and one nation reade of the causes which have led to the decline and fall of other empires without profiting hy the lesson.

The luws of God operate not through a few thousand years, but throughout eternity, and we cannot always perecive the why or wherefore of what passes in our hrief day. Nations and races, like individuals, have cach an eapecial destiny: some are born to rule, and others to be ruled. And such has ever heen the history of mankind. No two distinctly-marked races can dwell together on equal terms. Some races, moreover, appear destined to live and prosper for a time, until the destroying race comes, which is to exterminate and supplant them. Observe how the ahorigines of America are fading ariny before the exotic races of Europe.

Those groups of races heretofore comprehended under the generic term Caucasian, have in all ages been the rulers; and it requires no prophet's eye to see that they are deatined eventually to conguer and hold every foot of the globe where climate does not interpose an impenetrahle harrier. No philanthropy, no legislation, no missionary labors, can change this law: it is written in man's nature by the hand of his Creator. .

While the mind thus apeculates on the physical history of races and the more or lese speedy extermination of some of them, other prohlems start up in the distance, of which the solution is far hegond the
reach of human foresight. We have already hinted at the mysteriona disappearance of many great races and nations of antiquity.

When the inferior types of mankind shall have fulfilled their destinies and passed away, and the superior, hecoming intermingled in hlood, have wandered from their primitive zoological provinces, and overspread the world, what will be the ultimate result? May not that Law of nature, which so often forbids the commingling of species, complete its work of destruction, and at some future day leave the fossil remains alone of man to tell the tale of his past existence apon earth

## CHAPTER II.

## general hrmakes on types of mankind.

We propose to treat of Mankind, hoth zoologically and historically ; aud, in order that we may be clearly understood, it is expedient that we should define certain terms which will enter into frequent use as we proceed.

TYPE. -The definition of H. Cassini, given in Jourdan's Dictionnaire des Termes, is adopted by us, as sufficiently precise:-
"Typical characters are those which belong only to the majority of natural bodies comprised in any groap, or to those which ocoupy the ceatre of this group, and in some sort aerre as the type of it, hat presenting exceptions when it approaches its extremitiea, on account of the relations and natural affinitien which do not edmit well-defined limits between opecies."

In speaking of Mankind, we regard as Types those primitive or original forms which are independent of Climatic or other Physical influences. All men are more or less influenced by external causes, but these can never act with aufficient force to transform one type into another.

SPECIES. - The following definition, by Prichard, may he received as one of the most lucid and complete:-
"The meaning attached to the term specia, In matnral history, is very definite and intelligible. It inclades only the following conditions: nomely, eqparalo origin and distinctnese of race, evinced by a constant franomionion of rome characteribtify pectliarity of organixation. A race of animals or of plants marked by any peoaliar oharacter which it has constantly displayed, is termed a 'species'; and two races are considered specifically different, if they are distinguiahed from each other by some characteristic which the one cannot be supposed to hare acquired, or the other to have loat, through any known operation of phyaioal causes; for we are hence led to conclude, that tribes thus distingaished have not descended fram the same original atock.
"This is the import of the word eperies, as it has, long been understood by writers on different departments of natural history. They agree essentially as to the mense which they appropriate to this term, though they have expressed themselves differently, according a they have hlended more or less of hypothesis with their conoeptions of its meaning."
"VARIETIES," continues Prichard, "in natural history, are auch diversities in individoals and their progeny as are observed to take place within the limits of apecies.
" PERMANENT YARIETES are those which, haring once taken place, continue to be propagated in the breed in perpetaity. The fact of their origination must be known by obecration of infornce, since, the proof of this fact being defective, it is more pbilosophical to consider characters which are perpetually inherited as apecific or original. The term permanant varicty would otherrise oxpross the meaning which properly belonge to rpries. The properties of speciea are two: rix., orginal difference of charsoters, and the perpetuity of their tranmision, of which ouly the lateer can belong to permanent rarieties.
"The instances are so many in which it is douhtfal whether a particular tribe is to be considered as a distinct opecies, or only as a variety of some other tribe, that it has been foond, by naturalists, convenient to have a dasignation applicable in aither case." 21

Dr. Morton defines species simply to be "a primordial orgaric form." ${ }^{3}$ He classes species, "according to their disparity or affinity," in the following provisional manner ; -
"REMOTE SPECIES, of the same genns, are those among which hybrids are nevar produced.
" $A$ LLIRD BPECLES produce, ister $s e$ sn infertile offepring.
"PROXIMATE SPECIES produce, with each other, a fertile offspring."
GROUP. - Under this term we include all those proximate races, or species, which resemble each other most closely in type, and whose geographical distribution belongs to certain zoological provinces; for example, the aboriginal American, the Mongol, the Malay, the Negro, the Polynesian groups, and so forth.

It will be seen, by comparison of our definitions, that we recognize no substantial difference between the terms types and species-permanence of characteristics belonging equally to both. The horse, the ass, the zebra, and the quagga, aro distinct epecies and distinct types: and so with the Jew, the Teuton, the Sclavonian, the Mongol, the Australian, the coast Negro, the Hottentot, \&c.; and no physical causes known to have existed during our geological epoch could bave transformed one of these types or species into another. A type, then, bcing a pristine or primordial form, all idea of common origin for any two is excluded, otherwise every landmark of natural history would be broken down.

It has been sagaciously remarked by Bodichon:-


It may then be truly said, that we possess no data by whicb science can at all approximate to the epoch of man's first appearance upon earth; for, as shown in our chronological essay, even the Jewish history, whose fabulous chronology is so perseveringly relied on by many, does not reach back to the early history of nations. It cannot now reasonably be doubted, that Egypt and China, at least, existed as nations 3000 years before Christ; and there is monumental evidence of the simultaneous existence of various Types of Mankind quite as far back. Inasmuch as these types are more or less fertile inter se, and as they have, for the last 5000 years, been subjected to successions of wars, migrations, captivities, intermixtures, \&c., it would be a vain task at the present day to attempt the unravelling of this tangled thread, and to make anything like a just classification of types; or to determine how many were primitive, or which one of them has arisen from intermixture of types. This difficulty holds not alone with regard to mankind, but also with respect to dogs, horses, cattle, sbeep, and other domestic animals, as we shall take occasion to show. All that ethnography can now hope to accomplish is, to select some of the more prominent types, or rather groups of proximate types, compare them with each other, and demonstrate that they are, and have always been, distinct.

A vulgar error has been sedulously impressed upon the public mind, of which it is very bard to divest it, viz., that all the races of the glohe set out originally from a single point in Asia. Science now knows that no foundation in fact exists for such a conclusion. The embarrassment in treating of types or races is constantly increased by false classifications imposed upon us by prejudiced naturalists. It is argued, for example, that all the Mongola, all the African Negroes, all the American Indians, have been derived from one common Asiatic pair or unique soarce; whereas, on the other hand, there is no evidence that human beings were not sown broadcast over the whole face of the earth, like animals and plante: and wo incline to the opinion of M. Aasasiz, that men were created in nations, and not in a single pair.

Since the time of Linnæus, who first placed man at the bead of the Animal kingdom and in the same series with monkeys, numerous classifications of human races have been proposed; and it may be well to give a rapid sketch of a few of them, in order to show the difficulties which encompass the subject, and how hopelessly vague every definitive attempt of this kind mast be, in the present state of our knowledge.

Bupfon divides the human race into six varieties - viz., Polar, Tartar, Austral-Asiatic, European, Negro, and American.
Kant divides man into four varieties - White, Black, Copper, and Olive.

Huntrr, into aeven varieties; Metzan, into two-White and Black; Virey, into three; Blumbnbach, into five - viz., Caucasian, Mongol, Malay, Negro, and American; Desmoulins, into sixteen species; Bory dR St. Vincent makes fifleen species, subdivided into races.

Morton classifies man into twenty-two families; Pickrring, into eleven races; Lukb Burer, into sixty-three, whereof twenty-eight are distinct varieties of the incellectual, and thirty-five of the physical races.
Jacquinot ${ }^{\text {w }}$ divides mankind into three species of a genus homo viz., Caucasian, Mongol, and Negro.

The Caucaeian, says Jaequinot, is the only species in which white races with rogy cheeks are found; but it embraces besides sundry brunette, brown, and black races - not regarding color as a satisfactory test of race. The principal races wbich he includes under the Caucasian head are, the Germanic, Celtic, Semitic, and Hindoo. The latter differ mach in color, some being black, and otbers fair, comprising all intermediate shades, and are probahly a mixture of different primitive stocks.

The Mongol species embraces tbe Mongol, Sinic, Malay, Polynesian, and American.

The Negro species comprehends the Ethiopian, Hottentot, OceanicNegro, and Australian. Tbe Ethiopian race comprises those Negroes inhabiting the greater part of Africa, baving black skins, woolly heads, \&c.; Hottentots and Bushmen exhibiting light-brown complexions.

This classification of M. Jacquinot is supported by much ingenuity. In many respects it is saperior to otbers; and inasmuch as some classification, bowever defective, seems to be indispensable, his may ho received, as aimple and the least objectionable. Like all his predecessors, however, who have written on antbropology, he seems not to be versed in the monumental literature of Egypt; and, therefore, be classes together races which (although somewhat similar in type), having presented distinct physical characteristics for several thousand years, cannot be regarded as of one and the same apecies, any more than his Caucasians and Negroes.

Though many other classifications might be added, the above suffice to testify how arbitrary all classifications inevitably must be; becanse no reason has yet been assigned wby, if two original pairs of human heings be admitted, we should not accept an indefinite aumber; and, if we are to view mankind as governed by the same laws that regulate the reat of the animal kingdom, this concluaion is the most natural, no less than apparently most in accordance with the general plan of the Creator. Wo bave shown that sundry groups of human heings, presenting general resemblances in physical char-
acters, are found in certain zoological provinces where everything conveys the idea of distinct centres of creation; and hence, we may conclude that mankind only constitutes a link in Nature's great chain.

But many of our readers will doubtless be startled at being told that Ethnology was no new science even before the time of Moses. It is clear, and positive, that at that early day (fourteen or fifteen centuries в. c.), the Egyptians not only recognized, and faithfully represented on their monuments, many distinct races, but that they possessed their own ethnographic systems, and already had classified humanity, as known to them, accordingly. They divided mankind into four species: viz., the Red, Black, White, and Yellow; and, what is note-worthy, the same perplexing diversity existed in each of their quadripartite divisions which still pervades our modern classifications. Our divisions, such as the Caucasian, Mongol, Negro, \&c., each include many aub-types; and if different painters of the present day were called upon to select a pictorial type to represent a man of these arbitrary divisions, they would doubtless select different human heads. Thus with the Egyptians: although the Red, or Egyptian, type was represented witb considerable uniformity, the White, Yellow, and Black, are often depicted, in their hieroglyphed drawings, with different physiognomies; thus proving, that the same endless variety of races existed at that ancient day that we observe in the same localities at the present hour. So far from there being a stronger similarity among the most ancient races, the dissimilarity actually augments as we ascend the stream of time; and this is naturally explained by the obvious fact that existing remains of primitive types are becoming more and more amalgamated every day.

There are several similar tableaux on the monuments; but we shail select the celebrated scene from the tomh of Seti-Menbpitina I. [generally called "Belzoni's Tomb," at Thebes], of the XIXth dynasty, about the year 1500 в. c., wberein the god Hords conducts sixteen personages, each four of whom represent a distinct type of the human race as known to the Egyptians; and it will be seen that Egyptian ethnographers, hike the writers of the Old and New Testaments, have descrihed and classified solely tbose races dwelling within the geographical himita known to them. We cannot now say exactly how far the maximum geographical boundaries of the ancient Egyptians extended; for their language, the names of places and names of races in Asia and Africa, have so cbanged with time that a margin must be left to conjecture; although much of our knowledge is positive, because the minimum extent of antique Egyptian geograpby is determined.

Fig. 1.
The anclent Egyptian division of mankind into four apecies-aftioenth century s. c.


The above figures, which may be seen, in plates on a folio scale, in the great works of Belzoni, Champollion, Rosellini, Lepsius, and others, are copied, with corrections, from the smaller work of Cham-pollion-Figeac. ${ }^{77}$ They display the Rot, the Namu, the Nahsu, and the Tamhu, as the hieroglyphical inscription terms them; and although the effigies we present are small, they portray a specimen of each type with sufficient accuracy to show that four races were very distinct 3300 years ago. We have here, positively, a scientific quadripartite division of mankind into Red, Yellow, Black, and White, antedating Moses; whereas, in the Xth chapter of Genesis, the symbolical division of "Shem, Ham, and Japhet," is only tripartite-the Black being entirely omitted, as proved in Part II. of this volume.

The appellative "Rot" applies exclusively to one race, viz., the Egyptian; but the other designations may be somewhat generic, each covering certain groups of races, as do our terms Caucasian, Mongol, \&c.; also including a considerable variety of types bearing general resemblance to one another in each group, through shades of color, features, and other peculiarities, to be discussed hereafter. ${ }^{28}$

## EXPLANATION OF FIG. 1 .

A - This figure, together with his three fac-simile associates, extant on the original painted relievo, is, then, typical of the Egyptians; who are called in the hieroglyphics "Rot," or Race; meaning the Human race, par excellence. Like all other Eastern nations of antiquity - like the Jews, Hindoos, Chinese, and others - the Egyptians regarded themselves alone as the chosen people of God, and contemptuously looked down upon other races, reputing such to be Gentiles or outside-barbarians. The above representation of the Egyptian type is interesting, inasmuch as it is the work of an Egyptian artist, and must therefore be regarded as the Egyptian ideal representation of their own type. Our con-
clacion in mach strengthened by the faot, that the same bead is often repeated on different monnments. This and the other portraits of the Egyptian type to Fhich we allade, were sgured daring the XVIIIth dynasty of Rosmbumr ; and possess, to Ethoologists, peculiar interest, from the fact of their vivid aimilitude to the old Egyptian type, (subsequently resuscitated by Lapaics), on the earlier monomenta of the IVth, Vth, and VIth dyneatiea; at the same time that these partionlar effigies offer a marked diseimilarity to the Asiatico-Egyptian type, which becomes oommon on the later manaments of the XVIIth and sabsequent dyonaties ; that is, from 1500 b. c. downwerds.

B - This portralt is the representative of that Asfatio gronp of racen, by ethnographers termed the Semitic. The higroglyphio legend over his head resds "Namu;" whioh, together with "Anman," Was the generic term for yellow-skinned races, lying, in that dsy, hetween the Isthnas of Suez and Tedric Asagria, Arshia and Chaldas Inctarive.

C - Negro races are typified in this clasa, and they are designsted, in the hieroglyphits, "Nahru." The portrait, in colour and outline, displaya, like bundreds of other Egyptian drewinge, how well marked was the Nagro type several generations anterior to Moset Fe possess no actan portreita of Negroes, pictorially extanh, earlier than the seventeanth century before Christ; but there is ahnindant proof of the existence of Negro reced in the XIIth dynesty, 2800 yeare prior to our era Lepaius telle ns that African hanguages entedate even the epoch of Masea, B. c., 8898; and we may bence conclade that they were then spoken by Negroes, Fhose organio idioms bear no effinity to Asiatio tongues.
D - The fourth division of the homan family is designated, in the bieroglyphice, by the name "Tamhu;" which in likewise a generic term for those reces of men by no now called Japethic, iveloding all the white-skinned famillee of Asia Minor, the Cenossian mountains, and "Soythin" generally.
But we ehall return to this Egyptian classification in another chapter. Our object, here, is simply to establish that the ancient Egyptians had attempted a systematic anthropology at least 3500 years ago, and that their ethnographers were puzzled with the same diversity of types then, that, after this lapse of time, we encounter in the same localities now. They of courre clasaifed solely the races of men within the circumference of their own knowledge, which comprehended necessarily but a small portion of the earth's surface. Of their contemporaries in China, Australia, Northern and Western Asia, Europe, and America, the Pharaonic Eggptians knew nothing; because all of the latter types of men became known even to Europe only since the Christian era, most of them since 1400 A . d.

We have asserted, that all classifications of the races of men heretofore proposed are entirely arbitrary; and that, unfortunately, no data yet exist by which these arrangements can be materially improved. It is proper that we should subrait our reasons for this assertion. The field we here enter upon is so wide as to embrace the whole physical history of mankind; but, neither our limits nor plan permitting such a comprehensive range, we shall illustrate our views by an examination of one or two groupe of races; premising the remark that, whatever may be true of one human division-call it Caucasian, Mongol, Negro, Indian, or other name-applies with equal force to all divisions. If we endeavor to treat of mankind zoologically,
we can but follow M. Agassiz, and map them off into those great groups of proximate races appertaining to the zoological provinces into which the earth is naturally divided. We might thus make some approach towards a classification upon scientific principles; but all attempts beyond this must be wbolly arbitrary.
"Unity of races" seems to be an idea introduced in comparatively modern times, and never to have been conceived by any primitive nation, auch as Egypt or China. Neither does the idea appear to have occurred to the author of Genesis. Indeed, no importance could, in Mossic days, attach to it, inasmuch as the early Hebrews have left no evidences of their helief in a future state, whicb is never declared in the Pentateuch. ${ }^{2}$ This dogma of "unity," if not borrowed from the Babylonians during the captivity of the Israclites, or from vague rumors of Budhistic suavity in the sixth century b. c., may be an ontgrowth of the charitable doctrine of the "Essenes;" ${ }^{x}$ just as the present Socialist idea of the " oolidarité of humanity" is a conception borrowed from St. Pacl.

The authors have now candidly stated their joint views, and will proceed to substantiate the facts, upon whicb these deductions are based, in subscquent cbapters; unbiassed, they trust, by preconceived hypotheses, as well as indifferent to other than scientific conclusions.
With such slight modifications as the progress of knowledge especially in hieroglyphical, cuneiform, and Hebraical discovery may have superinduced since the publication of his Crania Cegyptiaca, in 1844, they adopt the matured opinions of their lamented friend, Dr. Samugi Grobgr Mortof, as, above all others, the most authoritative. In the course of this work, abundant extracts from Morton's writinge render unmistakeable the anthropological results to which he had himeelf attained; but the authory refer the reader particularly to Chapter XI. of the present volume, containing "Morton'e inedited manuscripts," for the philosophical and teatamentary decisions of the Founder of the American Bchool of Ethnology.

## CHAPTER III.

## SPECIFIC TYPES——CAUCASIAN.

What is meant by the word "Caucasian $?$ " Almost every Ethnologist would give a different reply. Commonly, it has been received, since its adoption by Blumenbach, as a sort of generic term whicb includes many varieties of races. By some writers, all these varieties are reputed to be the descendents of one species; and the manifest diversity of types is explained by them through the operation of physical causes. By others, the designations Caucasian, Mongoh, Negro, \&c., are employed simply for the convenience of grouping certain human varieties which more or less resemble each other, without paying due, if any regard, to specific characters. Under the head Caucasian are generally associated the Egyptinns, the Berbers, the Arabs, the Jews, the Pelasgians, the Hindoos, the Iberians, the Teutons, the Celts, the Sclavonians: in short, all the so-called Semitic and Indo-Germanic races are thrown together into the same group, and hence become arhitrarily referred to a cormmon origin.

Now, such a aweeping classification as this might have been maintained, with some degree of plasibility, a few years ago; when it was gravely asseverated that climate could transform one type into another: but inasmuch as this argument, apart from new rebutting data, revealed through the decyphering of the monuments of Egypt and of Assyria, is now abandoned hy every well-educated naturalist, (and, we may add, enlightened thoologian,) it is difficult to conceive how it can any longer be accepted with favor. We know of no archsoologist of respectable authority, at the present day, who will aver that the races now found throughout the valley of the Nile, and scattered over a considerable portion of Asia, were not as distinctly and broadly contrasted at least 3500 years ago as at this moment. The Egyptians, Canaanites, Nuhians, Tartars, Negroes, Arabs, and other types, are as faithfully delineated on the monuments of the XVШth and XVIIth Dynasties, as if the paintings had been executed by an artist of our present age.

Some of these races, owing to the recent researches of Lepsius, have even heen carricd backwards to the IVth Dynasty; which he places ahout 3400 years before Christ. It becomes obvious, consequently, that all the countries known to Egyptians in those remote
ages presented types which were as essentially different then as they now exhibit. It is equally certain, that the Plaraonic Egyptiana repudiated all idea of affinity to these coetaneous races; and it would seem to follow, as a corollary, that the other parts of the world were contemporaneously occupied by many aboriginal species. Ancient history nowhere acquaints us with habitable countries known to be uninhahited, and the earliest discoverers always found new types in distant lands. Hence, nothing short of a miracle could have evolved all the multifarious Caucasian forms out of one primitive stock; because the Canaanites, the Arahs, the Tartars and Egyptians, were absolutely as distinct from each other in primeval times as they are now; just as they all were then'from co-existent Negroes. Such a miracle, indeed, has been invented and dogmatically defended; but it is a hare postulate, nusupported by the Hebrew Bible, and positively refuted by scientific facts. The Jewish chronology, (tabricated, as we shall render apparent, after the Christian era,) for the human family, since the Deluge, carries us back, according to Usher's computation, only to the year 2348 н. c.; or, at farthest, according to the Septuagint version (whose history we shall see is somewhat apocrypbal), to 3246 в. c.; but the monuments of Egypt remove every shadow of doubt, by establishing that not merely races but nations existed prior to either of those imaginary dates. If then the teachings of science be true, there must have been many centres of creation, even for Caucasian races, instead of one centre for all the types of humanity.

The multiform races of Europe, with trifing exceptions, have been classed under the Caucasian bead; and it has been assumed for ages, that each of these races must have heen derived from Asia. It is strange, moreover, that naturalists should bave spent their time in studying remote, berbarous and obscure tribes, while they have passed in silence over the historical races, lying close at hand: nevertheless, we think this hranch of our subject may he readily elucidated by analyzing those types of mankind which surround ue.

It is to M. Thibrry and M. Edwards, the one honorably known as an historian and the other as a naturalist, that we are indebted for the first philosophical attempt to break in upon this settled routine. They have penetrated directly into the heart of Europe, and by a masterly examination of the history and physical characteristics of long-known races, have endeavored to trace them back to their several primitive sourecs.

Ancient Gaul is the chosen field of their investigations; and, although we admit that, from the very nature of the case, it is impossible at this late day to arrive at definite results, yet their facte are so fairly posited, and their deductions so interesting, as to command
attention; no less than to induce the belief that their plan, if persevered in, may lend most efficient aid in classifying the races of men. Tbey have at least shown, conclusively, that very opposite types have dwelt together in Europe for more than two thousand years; that time and identical physical causes have not yet obliterated or blended them; and that, while nations may become expunged, there is every reason to believe that primitive diversities are rarely, if ever, wbolly effaced.

Inasmuch as the labors of these gentlemen stand unparalleled, and possess very important bearings upon certain opinions long held by ourselves, and which we are about to develop, no apology need be offered for tbe following extended resumé of their combined labors.

Casar hegins his commentaries with-
"All Gaal ks divided into three parts, of which one is inhabited by the Belgimas, another by the Aquitanians, and the third by those who, in their own langage, call themaelves Celte, and who in our tongue are called Galls (Galii). These people diffar among themselven by their langage, their manners and their lawa." 31

To these three divisions, taken in mass, he applies the collective denominstion of Galli, corresponding to the Frencb term Gauloia.

Strabo confirms this account, and adds that the Aquitaniane differ from the Celts, or Galli, and from the Belgians, not only in language and institutions, but also in conformation of body; and that they resemble much more the Iberians; while he regards the Celts and the Belgians as of the same national type, although speaking different dialects. There are, however, valid reasons for doubting the latter opinion.

From their physical character and language, Strabo considers the Aquitanians, as well as the Ligurians, who occopied a part of the coast of France, to he a branch of the Iberians, ${ }^{, 3}$ the ancient people of Spain. These Iberes, or "people beyond," seem to have been transplanted, from time immemorial, on the soil of France, and are still beheld, distinct from all other men, in the modern Basques.

In consequence of their position on tbe coast of the Mediterranean, the Ligurians became known to ancient navigators before the other populations of Gaul. Greek historians and geographers apeak of them in very early times. They figure among the barbarous allies of the Carthaginians, as far back as 480 н. c. Thierry adopts, enforcing by many proofs, the opinion that the Aquitanians and Ligurians were hoth of the lberian stock, and also that they were alien to the Gallic family, properly speaking. ${ }^{38}$
These races disposed of, Thierry says that the Celte, or Galli, and the Belgians remain to he examined; and be views them as two branches of the same ethnic trunk: -
"Two freotions of the name fimily, isolated during many agas, developed separatals, and become, by meang of their long separation, diatinct races. The Galla, or Celte, were
the most ancient lnhbitianta of the country, and it in from them that it derives its name: and an iden of their antiquity may be obtained from the atatement that 'the Celt aubjugated Spuin in the sixteenth oentury e. c. The Galla made a descent on Italy, under the name of Ombre, abeat two centuries aftur; and the Roman antiquaries desiguate thene ancestora of the Ombrisus by the name of OXd Galle.' . . In short, wo ahould consame mach time, were we to cite all the authorities at command, to prove that the Galls were the moot ancient popalation On the contrary, the word Belgians is comparatively modern: it is found, for the trot time, in Cganar ; and they are recogained ander the nane of Cimbriane, in 118 в. о."

It seems tolerably well established, that the Behyians invaded Gaul on their first advent from the North, and that the Ceits were driven before them. The Belgians settled in the north of Gaul and in Italy, wbere they were not only located by ancient historians, but wbere, according to Thierry and Edwards, they are still resident. The Celta, routed, and impelled to the South and East, took refuge in mountains, peninsalas, and islands - historical facts also elucidated by Dr Brotonne. ${ }^{3}$
M. Thierry has shown that the Armoricans and the Belgians are an identical people, and that the Welab of Great Britain are also derived from the eame stock. Prichard, it is true, does not concur in this opinion; but Thierry, so far as we can perceive, is thoroughly sustained in his views by French, German, and other continental writers. He places the entrance into Gaul of the conquering Belgians between the years 349 and 290 b. c. The Armoricans appertained to the same stock, but their estahlishment in Gaul was still more ancient.

The Celts, or Galls proper, according to M. Thierry as well as to ancient historians, were already inhabitants of Gaul about 1500 в. c., or previonsly to the time of Moses. They then existed as a nation, warring with other races around them; nor can a conjecture be formed as to the number of centuries, anterior to this date, during which they had occupied that territory.

The Pre-Celtic researches of $\mathrm{WILsON}^{35}$ among the peat-bogs of the Britisb Islea, have carried the existence of man in England and Scotland back to agea immensely remote; at the same time that those of Boucher de Perters, amid the alluvial stratifications of the river Soame, ${ }^{56}$ indicate a still more ancient epoch for the cinerary urns, bones, and instruments, of a primordial people in France; who, if geological observations be correct, are yet posterior to the silexevidences of human entity on the same spots before the "diluvial drift." These facts correspond with the exhumations of RETzIus, in Scandinavia, ${ }^{3}$ and the human vestiges discovered in European caves. ${ }^{3}$

But, leaving such points to another section (ably handled by our colleague, Dr, Ushsi,) it remaing now for us to ask, who were the Belgianf 9 M. Thierry shows, from an elaborate hiatorical investiga-
tion, that the Cimbri, who played so important a part in the history of early Europe, were of the same race as the Belgians; and that old writers, coeval with the time of Alexander, or fourth century i. c., place this race on the Northern Ocean, in Jutland, Between the yeare 113 and $101 \mathrm{~b} . \mathrm{c}$., the Cimbri were set in motion, and eventually devastated Gaul, Spain, and Italy. It is a striking fact, that, in this invasion, when they reached Northern Gaul, where the Belgians were already seated, the latter immediately joined them, as allies, against the Celts; and it seems to be clearly proven that the Cimbri and the Belgians spoke dialects of the same language.

This Cimmerian race was diffusely scattered through the north of Europe, and even into Asia Minor, at an early period.
"Down to the seventh century before our era, the history of the Cimbri near the Euxine remains enveloped in the fabulous obscurity of Ionian traditions; it does not commence with any certainty before the year $631 \mathrm{~B} . \mathrm{c}$. This epoch was frutfol in distarbancea in the veat of Asia and east of Europe."

About this time, it is to be inferred from Herodotus, the Genesiacal GoMRi, Gomerians, or Kymri, abandoned the Tauric Chersonesus, and marehed westward. ${ }^{39}$

We pretend not to afford a complete analysis of M. Thierry's able work. He lins tracked out, with vast rescarch, the settlements and subsequent history of the various Caucasian races of ancient Gaul; and to him we refer the reader for corroboration of the facts we are succinctly sketching. The resumé at the end of bis Introduction explains his general conclusions. He considers the following points to be unanimously demonstrated by authorities:-
"Two great human families furnished to Gaal its ancient inhabilants: viz, the lberian and the Gallic (Gauloises) familiee. The Aquitanians and Ligarinns appertained to the Berian family. The Gnilic family occupied, ont of Gad, the Britiah Islea. It was divided into two branches or races, presenting, ander a common type, essential differences of language, manners, and inatitutions, and forming two individualilies fidely separated."
M. Thierry, notwithstanding, asserts that the Cimbri and Celts were branches of the same family; but this ${ }^{\text {w }}$ w doubt. They were both fair, and strikingly contrasted with the dark-skinned, blackhaired, and black-eycd Iberians: M. Edfards, bowever, proves that tbeir physical cbaracters wero exceedingly different. No proof can be adduced of their common origin, beyond some affinity between their languages: arguments that we sball show to be no longer satisfactory evidence of aboriginal consanguinity.
"The firat hranch had preceded, in Gaul and the neigbboring Archipelago, the dawa of history. The ancients considered them as autochthones. From Gaul they extended to Spain, Itsly, and Mlyria. Their generic name was Gach, or mother a word which the Romans rendered by Gallux, snd the Greeks by Galat and Galatés. The latter had improperly attributed to the whole atem the denomination of Celt, which properly belonged only to ita southern tribes. The second brancb, colonized in the west of Europe since historic times,
was represested in Gaul by the Armoricans atd Belgians, and by their descendants in the Britieh Isles. Armorican was a local desigostion ; Brigian, the name of a belligereat confederation; Cinabri, the name of a race. The reletive position of the two Gallic branches was as follows: the Cimbrian branch occupied the north and weet of Gaal - the eatt and south of Britain; the Celtic branch, on the contrary, the east and avath of Ganl, and the west and north of the British Isles."

It becomes apparent, then, from the facts detailed, and which no historian will question, that the territory of ancient Gaul was occupied, some 1500 years b. c., by at least two distinctly-marked Caucasian races - the Celts and the Iberians: the one fair-skinned and highthaired ; the other a dark race; and each speaking a language bearing no affinity to that of the otber - precisely, for instance, as the Euskaldune of the present Basques is unintelligible to Gaelic tribes of Lower Brittany. But history justifies us in going beyond this dual division. Each type was doubtless a generic one, including many subordinate types. There are no data to warrant the conclusion that either of these stocks was an ethnic unit. It will be made to appear, when we come to the monuments of Egypt, that various Caucasian types existed in Egypt and Asia 2000 years before the most ancient Celtic history begins; and the same diversity of races, without question, prevailed simultaneously in Europe.

Let us inquire whether some positive information cannot be obtained with regard to the types of primitive European races. The work of Edwards, to which we have already alluded, ${ }^{40}$ stands in many respecta unrivalled. The high reputation of its author as a naturalist guarantees his scientific competency; and he has directed his attention iuto an unexplored channel. After perusing Thierry's Histoire des Gaulois, of which we have just spoken, M. Edwards made a tour of France, Belgium and Switzerland (i. e. ancient Gaul), and Italy, engaged in careful study of the present diversified races, in connection with their ancient settlements; and he asserts that now, at the eud of 2000 years, the types of the Belgians (Cimbri), the Galls or Celts, the Iberians or Aquitanianes, and the Ligurians, are atill distinctly traceable among their living descendants, in the very localities where history at its earliest dawn descries these families.

Gaul has heen the receptacle of other races than those named, but these were comparatively small in popular multitude; and although a great variety of types is now visible, yet M. Edwards contends that such exotic constituents of later times form hut trivisl exceptions, and that three major types stand out in bold relief.

Edwards upholds sundry physiological laws to account for this preseryation of types; and a fer shall be noticed incidentally, as we go on. He lays down a fundamental proposition, the importance of which will he at once recognized: -
"Where there is no ntataral repagnance to each other, and reces meet and mix on equal terme, the relative number of the two races inflaences greally the rearelt: the type of the lesser number may disappear entirely. Take, for axample, a thousand white familles and one bandred black ones, and place them togother on an inland. The result would bes, that the black trpe would after a while disappear, athough there is reason to believe that troces of it would 'crop out' occasionally during o very long time. Whare two fuir-atinned reces are brought into contact, the axterninstion of one would probably sooner be affected; nepertheless, even here, it is impossible to destroy the germ antiraly. The Jews form a convincing illustration of the influence of the larger over the ampller number. This, from the time of Abraham to the present, has been a mare or leas adultersted rece; yet its type has been predominant, is preserred, and is likely to be for ages to come. Suohe ant is well illuatrated in the lower animala. Crose two domestic animahe of different reces; take the offepring, and cross it with one of the parant stocks; continue this provess for a fer generations, and the ane becomes brallowed op in the other.
"Even where two racee meet in equal numbers, which is an extreme supposition, in arder to make a unifform type they would have to pair off uniformily, one race with another, and not esch race to intermarry smong themelven. This equilibriom coud not be maintnined; and without it, each rece would preserve its own type.
"There is another tendency in nature, that intertsis us here partionlarly, and whiab has been ouriously and ingeniously illuatrated by M. Coledon, of Gemert. He bred a great many white and gray mice, on whioh he mede axperimenta by croseing constantly a whito with a gray one. The product invariably wes at white or s gray merse, with the oharactere of the pure race: 'point de mftis, point de begarrare, rien d'intermédiare, enfin le type parfait de l'une on de l'antre vcriéts. Ce cas eat oxtrème, a la verite; maia le prefédeat
 aivement:" 41

The hahit of refecting on the relations in which primitive races are found, induces us to consider the following as the conditions which may make one or the other of theae effects preponderate. Where races differ considerably, which animals do whenever they are of different species, (like, for example, the horse and the ass, the dog and the wolf or fox,) their product is constantly hybrid. If, on the other hand, they are very proximate, (tris voitinet, esys M. Edwands, they may not give birth to mixtares (melanget), hut reproduce pure or primitive types.

On examining facts closely, the greatest conformity is encountered precisely where we perceive, at first glance, the strongest contrast. In the crossing of widely different races, the bybrid presents a type diverse from that of the mother; notwithstanding certain conformities. So also when two proximate races reproduce the one and the otherprimitive type, the mother gives birth to a being which differs from herself. Bebold here an uniformity of facts; but remark likewise, that in this last crossing, the mother produces a being more like berself than in the former case. She departs then leas from the general tendency of nature, which is the propagation of the same types.

[^38]types, notwithatending their relations, and to such a point that the male and fomale of the eame rpecies often differ more betment themselves, than one or the othar differs from indiridanls of the asme sex, in proximate species. This is so true, that the male and ite female, among enimels whpse hebita there has been no opportunity of examining, have frequently been clessifted as distloct apecies; ineects and birds especisilly have furniahed nomerous examplea.
"It is pasiffest that the obserrations of M. Colsdon belong to this oriter of fecte, considered in their genoral bearing; ts the mother produces two types, of whioh one reproeants that of ber own rece, and the other the phytical charsoters of the reve of the father. Other oxamples of the same kind might be prosented, bat this is oufficienty atruling.
"The most important congideration th, that the asme phenomena are aeen in the buman reoses and, farther, in the same conditions indicated. Those buman reses which differ most produce constantly hybrids (motio). It is thas that a molntio asrays results from the mixture of white and bleck races. The other fact, of the reproduction of two primitive types, when the parents are of two proxlmate (poiviser) verielies, is labs notorious, but is not on that scoount, the lese true. The fate is common among European nations. We heve had frequent occeasiona to notioe it. The phenomenon la not constant - but what of that: Crosing sometimes prodecos fasion, somotimea the soparation of types; whence we arrive at thin fondamental conclusion: that people appertaining to varieties of differant, bat proximate races, in rain uaite, in the bypothetical maner we have described above; a portion of the rew generaions will preserye the primilive types."

These facts are no less true than curious; and every American, especially, has the means at hand for verifying them. When a white man and a negress marry, the product is a mulatto or intermediate type. When a white man and white woman marry, the one having dark hair, eyes and complexion, with one cast of features, and the other light hair and eyes, and fair complexion, with different features, some of the children will generally resemble one parent, some the other; while others may present a mixed type, being a reproduction of the likeness of an ancestor (generally forgotten) of either parent.

Every race, at the present time, is more or less mixed. A nation, that is, a numerous population, may be dispossessed of, and displaced from, a large extent of its territory; but this is extremely rare savages alone furnishing almost all such examples. In America, witness the Indians driven before the whites, without leaving a trace behind them. There is a fixed incompatibility between civilized and savage man: they cannot dwell together. On the Old Continent, it is not now a question of savages; science has there to deal at most with barbarians; that is, people possessing the commencements of civilization. Otherwise, it would be neither the interest of conquerons to drive them all off, nor is it their inclination to abandon their native soil; of which history affords abundant proof. Mythology, fable, and Utopian philanthropy, have traced imaginary pictures; hut history nowhere shows us a people who, first discovered in the savage state, afterwards invented a civilization, or learned the arts of their discoverers. The monuments of Egypt prove, that Negro races have not, during 4000 years at least, been able to make one solitary step, in

Negro-land, from their savage state; the modern experience of the United States and the West Indies confirms the teachings of monuments and of history; and our remarks on Ctania, hereinafter, seem to render fugacious all probability of a brighter future for these organically-inferior types, however add the thought may be.

There is abondant evidence to show that the principal physical characters of a people may be preserved throughoat a long series of ages, in a great part of the population, despite of climate, mixture of races, invasion of foreigners, progress of civilization, or other known influences; and tbat a type can long outlive its language, history, religion, custome, and recollections. The accession of new people multiplies races, but it does not confound them: their numbers are increased by those which the intruders introdace, and also by those which they create by commingling; but all these incidents, nevertheless, still leave the old type in existence.
In tracing, at tbis late day, ancient types of men, we sball, of necessity, meet chiefly with those of great and powerful nations, that have been able to maintain themselves more or less inviolate, through a thousand difficulties, by their force or knowledge. Small and feeble fractions of humanity bave generally been swallowed up and obliterated, like the Guanches of the Canary fsles. The world now advances in civilization more rapidly than in former times, and mainly for the substantial reason that the bigher types of mankind have so increased in power that they can no longer be molested by the inferior; nor, arguing from the past and present, can we doubt that a time must come, when the very memory of the latter will aurvive solely on the page of history. The days of the aborigines of America are numbered; no victorious Tartar-hordes will ever set foot again on European soil; and the white races, or Iapetidx, have commenced the career of Oriental conquest, and already "dwell in the tents of Shem."

Examinations of Roman history throw important light on this subject. The Empire was crushed by successive hordes of barbarians; but still their numbers, compared to the population of Italy, have been much overrated. The human waves of Visigoths, Vandals, Huns, Iferules, Ostrogoths, Lombards, and Normans, rolled successively into Italy; and yet, it may be askcd, what vestiges remain, in Italy itself, of these larbarian surges? The first three passed over it like tornados. The two next, within a short time, had to contend with the Goths, and were expelled from the country; and of tbe whole conglomerate mass but small fragments were left, too insignificant materially to influence the native Italic types. The Lombards, on the contrary, remained, and have implanted their name on a portion of Italy. The Normans were numerically but a handful. Gaul changed
its government and name under the Franks; however, the army of Clovis was amall; while William the Conqueror aubjugated England with 60,000 men : but, as if to illustrate our axioms of the indelibility of type and the vigor of the white race, not a bead in Cbristendorn that, legitimately, wears a crown-not an individual breathes in whose veins flows blood acknowledged to be "royal," but traces his or her genealogy to this Nomman colossus, William thr Congurror! 18

Such are some of the great conqueats of European antiquity that have considerahly affected the condition of men and things, but which, notwithatanding, have not produced much alteration in the type of the conquered people. Some mixture of types is still seen here and there the alien races "crop out," but the indigenous thonsands have swallowed up the exotic hundreds.

Conqnests are often merely political, resulting in territorial annexation or in tributary accessions, where little or no mingling of races takes place. Other examples there are, where the conquerors continue to pour into a country from time to time, and thereby greatly influence native types. It is thus that the Saxons, taking possession of England, have perpetuated their race: but it is ever the higher type that in the end predominates.

[^39]Creative laws, as we have said, work by myriads of ages. Six centaries have not elapeed since Turke, Tartars, and Mongols, appeared in Europe. The Vandal had already disappeared. At every point of the European continent, the remnants of these Central-Asiatic swarms are melting awsy before the higher Caucasian types, wherever complete subeerviency to the latter does not suspend the extermination of the former. Were it not that politics are esehewed in the present volume, events of the past five years might supply signal examples.

In characterizing types, M. Edwarda justly regards form and size of tbe head, and the traits of the face, as most important: all other criteris are delusive and changeable; auch as hair, complexion, stature, \&c., though not to be neglected. Even these are less mutable, we think, than M. Edwards supposes. There are many examples of complexion and hair resisting climates for centurics, without the slightest alteration; and, in fact, we know of no authentic instance where a radical change of complexion or hair has been prodiced."

We have mentioned that, in order to put the question to a practical test, M. Edwards made a journey through France, Italy, Belgium, and Switzerland. In passing through Florence, he took occasion to visit the Ducal gallery, to study the ancient Roman type. He selected, in preference, the busts of the early Roman emperors, because they were descendants of ancient families. They, too, are so alike, and withal so remarkable, that they cannot be mistaken. Augustus, Tiberius, Germanicus, Claudius, Nero, Titus, \&c., exemplify this type in Florentine collections. The following is his description:-
"The vertical diameter of the head is short, and, consequently, the face broad. As the summit of the cranium is flattened, and the inferior margin of the jaw-bone almost horizontal, the contour of the head, viewed in front, approaches a square. The latersl parts, above the ears, are protuberant; the forehead low; the nose truly aquiline, that is to say, the curve commences near the top and ends before it reaches the point, so that the base is horizontal ; the chin is round, and the stature short." [A sailor came to my office, a few months ago, to have a dislocated arm set. When stripped and standing before me, he prosented this type so perfeotly, and combined with such extraordinary development of bone and muscle, that there occurred to my mind at once the bean-ideal of a Roman soldier. Though the man had been an American sailor for twenty years, and spoke English without foreign accent, I could not holp asking where he was born. He replied in a deep strong voice, "In Rome, sir!" - J. C. N.]

This is the characteristic type of a Roman; but we cannot expect now to meet with absolute uniformity in any race, however seemingly pure. Such a type M. Edwards found to predominate in Rome and certain parts of Italy at the present day. It is the original type of the country, which has swallowed up all intruders, has remained unchanged for 2000 years, and probably existed there from the epoch of creation.

The Etruscans present an extraordinary historical enigma. Science knows not whence they came, nor whence their institutions, arts, or language - whether, indeed, they were indigenous to the Italian soil, or strangers. We can trace their civilization far beyond that of

Fia. 2. -


DANTE.45 Rome - more than 1000 years b. c. Citations from Etruscan archæologists, to this effect, are given further on. Some of their descendants now resemble Romans, but they present a mixed type. The well-known head of Dante affords an illustration, peculiar, and strikingly typical; for it is long and narrow, with a high and developed forehead, nose long and curved, with sharp point and elevated wings. [Here is the portrait in question, to afford an idea of its style; which, however, requires to be studied upon designs of a larger scale.] M. Edwards was
strack by the great frequeacy of this type in Tuscany (ancient Etruria), among tbe peasantry; in the statues and busts of tbe Medici family; and also amid the illustrious men of the Republic of Florence, in their effigies and bas-reliefe. This type is well marked since the time of Dante, as doubtless long before. It extends to Venice, and is visible over a large extent of country. In the Ducal palace, M. Edwards had occasion to observe that it is common among the Doges. The type became more predominant as he approached Milan; hence he traced it through a great part of France, and through the settlements of the ancient Cymbri or Belgæ, who, Thicrry has shown, occupied Cis-Alpine and Trans-Alpine Gaul. The physical characteristics of the present population, therefore, correspond exactly with the historical colonies; showing that the ancient type of this widespread people, the Cymbri, has been preserved for more than 2000 years.

After visiting and analyzing thoroughly the population and history of Italy, M. Edwards next inveatigated Gaul, passing by the southern and western part, where Thierry places the Basques or ancient Ligurians. In the other parts of France, as we have seen, there existed, at a remote epoch, two great families, differing in language, habits and social state; and these two formed the hulk of the ancient population. Examination ascertains that two dominant types even yet prevail throughont the kingdom, too saliently marked and distinct from each other to be confounded. There have heen many conquesta and comminglings of races; but inasmuch as the greater numher has swallowed up the lesser, no very obvious impression has heen produced by these causes. Of the two families, the Galla, or Celts, and the Cymbri, or Belgæ, the former shonld he the most numerous, because they are the most ancient, and had covered the whole country beforc the entrance of the latter: in consequence, we find that the type with round heads and straight noses, that of the Gall, has previiled over that of the Cymbri.

Oriental Gaul was occupied by the Galli proper of Cessar, whom Thierry denominates "Galls." Northern Gaul, including the Belgica and Armorica of Cessar, on the other hand, was occupied by the Cymbri. The population of Eastern Gaul - the Gauls proper according to the historical facts, ought to be the least mixed, hecause the Belgæ never penetrated among them by force of arms, hut took quiet possession of their outskirts, along the northern parts of the country.

[^40]He thus descrihes the type of the Gall:
"The head fa so round ea to approach the spherioal form; the forehead is modersta, slightly protuberant, and receding towerds the templea; eyes large and open; the nose, from the depression at its commencement to its terraination, almost straight-that is to sey, without any marized curpe; its extremity is rounded, ad well as the chin; the stature medinm. It will be seen that the fatures are perfectly in harmony with the form of the head."

In the nortbern part of Gaul, the principal seat of the Belgx, you again encounter the same atriking coincidence.
"In a previous journey I traveraed s great part of the coast of Gallia Belgica of Cosear, from the month of the Somme to that of the Beine. It was here that I distingaighed, for the first time, the asaemblage of traits which constitates the other type, and ofton to each an enaggerated degree that I wes very forcibly strack; the long bead, the broed, high forehead; the curved noas, with the point below and wings tucked up; the chin boldly developed; sad the statare tall."
M. Edwards has pursued this type in its various settlements, with numerous and valuable scientific results. He concludes a division of his subject with the following strong language:
"Withoat the preceding discussions, and the facts we bave jost unrapelled, bow could we recognise the Gauloi in the north of Italy, among the Sieules, the Ligurre, the Etruscans, the Vercose, the Bomans, the Goths, the Lembards 9 But wo possess the thread to guide us. First, whatever may have been the anterior state, it is certain, from your reacarchen (M. Thierry's), and the unanimons accord of all historians, that the Peuples Gaulois have predominated in the north of Italy, between the Alps and Apennines. We find them established there in a permanent manner, according to the flret lights of hisiory. Tbe most authentic testimony represents them with all the characters of a great nation, from this remole period down to a very adranced point of Roman hialory. Here is all I demand. I have no need to occupy myself with other people who have mingled with them since; to discuss their relative numbers-the nature of their language-the duration of their esteblishmeat. It is suffient for me to know that the Gaviosa heve existed in great numbers. I know the features of their compatriots in Trane-Alpine Gaul. I find them again in Cis Alpine Ganl."

It bas often struck us, that, even in the heterogeneous population of our United States, we could trace these European ancient races. The tall figure and aquiline nose of the Cymbrian are generally seen together; while the traits of the Gaul are more frequently accompanied by short stature.

The Celts and Cymbri have apread themselves extensively through Eastenn Europe, beyond the limits of Gaul and Italy: but, for our objects their pursuit being irelevant, we reaume the explorations of M. Edwards; who, after bis survey of Western, takes a glance at several other races of Eastern Europe, although he does not claim to have analyzed thesc with the aame rigorous detail as those of Gaul.

The Sclavonic type, another of the thousand-and-one Caucasians whose types stretcb beyond the reach of history, is thus descrihed by our ohservant etbnologist; and it seems to be just as distinct and sharply marked over half of Europe, as that of the Jews everywhere:
"The contour of the head, viewed in front, approaches nearly to a square; the height surpasses a little the bresdth; the summit is sensibly flattened; and the direction of the jaw is horizontal. The length of the nose is less than the distance from its base to the chin; it is almost straight from the depression at its root, that is to say, without decided curvation; but, if appreciable, it is slightly concave, so that the end has a tendency to turn up; the inferior part is rather large, and the extremity rounded. The eyes, rather deepset, are perfectly on the same line; and when they have any particular character, they are smaller than the proportion of the head would seem to indicate. The eyebrows are thin, and very near the eyes, particularly at the internal angle; and from this point, are often directed obliquely outwards. The mouth, which is not salient, has thin lips, and is much nearer to the nose than to the top of the chin. Another singular characteristic may be added, and which is very general : viz., their small beard, except on the upper lip. Such is the common type among the Poles, Silesians, Moravians, Bohemians, Sclavonic Hungarians, and is very common among the Russians."

This type is also frequent through eastern Germany, and although it has become much mixed with the German, their separate historical settlements may yet be followed, and the two races traced out and identified, like those of the Celts and Cymbri in Gaul.

History, from its commencement, has mentioned immense Caucasian populations, ranging throughout northern and eastern Europe and western Asia, to the confines of Tartar and Mongol races. From their remoteness, and the absence of communication, little was known anciently about them; and even at the present day, they are looked upon as "outside barbarians," exciting trivial interest among general readers. This group, however, at all times, has comprised the most numerous of all the fair-skinned races upon earth : intellectually equal to any others. To give the reader an idea of the actual extent of Sclavonic races, we subjoin statistics, as quoted by Count Krasinski, from the. Sclavonian Ethnography of Schafferick:-

|  | Russia. | Austrin. | Prussia. | Turkey. | Cracow. | Saxony. | Total. |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Moscovites, or Great Russians | 35,314,000 | ...... | ...... | ...... | ...... | ...... | 35,314,000 |
| $\left.\begin{array}{l}\text { Little Russians, } \\ \text { Ruthenians }\end{array}\right\}$ | 10,370,000 | 2,774.000 | ...... | ...... | ...... | ...... | 18,144,000 |
| White Russians. | 2,726,000 | ...... | ...... | ...... | ...... | ...... | 2,726,000 |
| Bulgarians | 80,000 | 7,000 | ...... | 8,500,000 | .... | ..... | 3,587,000 |
| Servians and | 100,000 | 2,594,000 |  | 2,600,000 |  |  | 5,294,000 |
| Illyrians Croats. | 100,000 | $2,504,000$ 801,000 | ........ | 2,000,000 | ...... | $\ldots$ | $5,294,000$ 801,000 |
| Carinthians .. |  | 1,151,000 | .... | ... | ...... | ........ | 1,151,000 |
| Poles ............. | 4,912,000 | 2,341,000 | 1,982,000 |  | 130,000 |  | 9,865,000 |
| Bohemians and |  | 4,370,000 | 44,000 |  |  |  | 4,414,000 |
| Moravians |  | 4,370,000 | 44,00 | ...... | ...... |  | 4,4 |
| Slovacks in <br> Hungary |  | 2,758,000 |  | $\ldots$ | ...... | ...... | 2,753,000 |
| Lusatians, or Wends |  |  | 82,000 | ...... | ...... | 60,000 | 142,000 |
| Total | 53,502,000 | 16,791,000 | 2,108,000 | $\overline{6,100,000}$ | 180,000 | 60,000 | 78,691,000 |

From the same North British Review we extract sufficient to illus-
trate our own views; but nothing adequate to evince the ability of the best article we have met with on these Shlaves.
"Much confagion has been produced by the conatant ase in books of words denoting the sapposed state of fixx and restlensmess in whith the early nations of Earope lived. The natural impression, after reading suob books, is, that masese of people were continually coming out of Abia into Enrope, and driving othera before them. . . . But care must be taken to confine these atories of wholesale colonization to their proper place in the antehistoric age. For all inteats and parposes, it is best to conceive that at the dawn of the historio period the leading Eoropean races were arranged on the map pretty inuch as they are now. Rogarding the Slavonians, at lesst, this has been established; they are not, as bas generally been sapposed, a recent accession out of the depths of Asia, but are as much an aboriginal race of Eastern, as the Germans are of Central Rurope. In abort, had a Homan geographer of the days of the Empire advanced in estraight line from the Atlantio to the Pacifc, be would bave troversed the exact succession of reces that is to be met in the aqume route now. First, he would bave found the Celts ocoupying as far as the Rhine; thence, exatward to the Vistuls and the Carpathians, he would have found Cermens; beyond them, and stretching awisy into Cantral Agia, he would baye found the so-called Beythians - en race which, if be bad posseseed our information, he woold have divided into the tro great branches of the Slavonieni or Earopeen Scythians, and the Tatars, Tarks, or Asistio Segthisns; and, finally, beyond these, he would have foand Mongolian bordes overapreading Eastern Asis to the Pacific. These succesesive races or populations he woold have foond ehading off into ench other at their pointe of junction; be would have remarked also a general wastward pressure of the whole mase, tending toward mutaal rupture and invasion, the Mongolian pressing agsingt the Tatare, the Tatara againgt the Selavonisna, the Slavonians against the Germans, and the Oermans against the Celta.
"The Blavoniens, we bave said, are an aboriginal European branch of the great Scythian race." *

One of the most striking examples in history of preservation of type, after the Jews, is tbat of the Magyar race in Hungary. Completely encircled by Sclavonians, they have been living there for 1000 years, speaking a distinct language, and atill presenting physical characters so peculiar as to leave no doubt of their foreign origin.
"Head nearly round, forehend little developed, low, and hending; the oyes placed obliquely, so that the external angle ia elevated; the nose short and fist ; mouth prominent, and lipa thick; neck very atrong, so that the back of the head appeare flat, forming almoat a atraight line with the nape; baard weak and seattering; steture small." 4

This picture, which is a faithful description of a modern Hungarian of the Magyar race, corresponds with the accounts given of this people by older writers, and of the ancient Huns.

History teaches that the Huns settled in Hungary in the fifth century after Christ, and to these succecded a body of the Magyars, onder Abpad, in the ninth. The type of the two races was identical. This type, so peculiarly exotic, is totally unlike any other in Europe. It helongs to the great Uralian-Tatar atem of Asia. The derivation is conceded by every naturalist, from Pallas to the prosent day: but it is a curious fact that, although differing in type, the Magyare speak a dialect of the language of the Fins; and the two races must have been associated in some way at a remote epoch, previously to the settle-
ment of the Magyars in Hungary. De Guignbs had traced other connections, making also the grand error of confounding the Huns with the Chinese Houng-nou: but that identity of language is no irrefragable argument in favor of identity of race, will be a positive result of the researches in this volume.
Grecian annals afford an instructive lesson in the history of types of mankind. We trace her circumstantial history, with sufficient truthfulness, some centuries beyond the foundation of Rome, and her traditions back to about the epoch of Moses. This we can do with enough certainty to know, that Hellenic Europe was then populated, and marching toward that mighty destiny which has been the wonder and object of imitation of all subsequent ages. Who were the people that achieved so much more than all others of antiquity? And what was there in climate and other local circumstances that could produce such intelligence, coupled with the noblest physical type? Or, we may ask, did Greece owe her marvellous superiority to an indigenous race? The Hellenes and Pelasgi are the two races identified with her earliest traditions; but when we appeal to history for their origin, or seek for the part that each has played in the majestic drama of antiquity, there is little more than conjecture to guide us. Greece did not come fairly within the scope of M. Edwards's researches, yet he has ventured a few note-worthy observations, in connection with the point before us. He thinks the same principles that governed his examination of Gaul may be applied to Greece; and that the Hellenes and Pelasgi might be followed, ethnologically, like the Ceits and Cymbri. Everybody speaks of the Greek type, regarded as the spccial characteristic of that country, referring it to a beau-idenl conformation. Nevertheless, all ancient monuments of art in Greece exhibit a wide diversity of types, and this at every period of their sculpture. M. Edwards draws a happy distinction between the heroic and the historic age of Greece: the first, if chiefly fahulous, has doubtless a semihistorical foundation; the latter is the true historic age -although no people of antiquity appears to have conceived the "historical idea" eorrectly; nor is it popularly understood, even at the present day, among ourselves.

[^41]To facilitate the reader's appreciation of the differences betwixt the heroic and the historic types, the following heads are selected:

Fia. 8-Heroic type; especially No. 4.48


Fio. 4-Historic type.


Lyouraus. ${ }^{49}$

Fig. 5.


Fig. 6.


Fig. 7.


Fia. 8.


The lineaments of Lycurgus and Eratosthenes, excepting the beard, are such as those one meets with daily in our streets; and the same applies to the other familiar personages whose portraits we present.
"Were wo to judge solely by the monuments of Greece, on sceorant of the contrast I have pointed out, we sbould be tempted to regard the type of the fabolous or heroic parsonages as ideal. But imagination more readily creates monsters than modela of besaty; and this principle alone will suffice to convince us that it has axisted in Oreece, and the oountries where tts popalation has spresd, if it does not still exist there."
The learned travellers, MM. dr Stackblbera and de Bronsted, have journeyed through the Morea, and closely investigated the population. They assert that the heroic type is still extant in certain localities.s Here, then, there has been a notable preservation of a peculiar type - within a small geographical space-through time, wars, famines, plagues, immigrations, maltifarious foreign conquests; although the Greeks of the historic type are, out of all proportion, the most abundant at the present day; which is precisely what, under the circumstances, an ethnographer would have expected.
> " Nal perple n'a conservé avec plas de fidelite Ie langue de ses aienx. Nul peuple n'e conservé plus d'asages, plus de coutumes, plas de souvenirs des tempe antiques; au milien d'enx les murs d'Argos, de Myoène at de Tgrinthe, qui deja du tempe d'Homère étaient d'une haule entiquite, sont encore debout: des Rapeodes percourent encore le pays, et chnntent avec le même accent ot lea mêmes paroles, les événements memorables: enxmêmes sont l'image de ceux que ces zouvenira rappelent aveo tant de force; et la ressemblance des trils est rehauseé par la aimilitude des étriements. B'ile дe representent pas sous le rapport de la civilisation leare neêtres des beaux siecles de le Gréce, ils représentant ceux qui les ont amonés."

Of the two types indicated, it is positive, M. Edwards thinks, that the first (heroic) is pure: but not certain that the second (historic) is. It may be, that the latter is the result of a mixture of the first with some other, the elements of which are now unknown to us; because it does not seem to be sufficiently uniform to be original. Albeit, if we set forth with M. Edwards to hunt for the required elements of modifieation through Greece, (giving to this name its most extensive sense) -

[^42]This ethnological question of heroic and historic types, mooted by Edwards, is worthy of careful stady; but we must pass on.
M. Bodichon, a surgeon distinguished for fifteen years in the French army of Algeria, examines the races of Europe from another point of view ; throwing considerahle light on this ahatruse sulject, confirmatory of the very early, no less than permanent, diversity of types in the populations of Gaul and other European countries.

After estahlishing the insufficiency of Philology in tracing the origin of races, Bodichon makes the following forcible remarks in vindication of Physiology, as a more certain instrument of analysis:

[^43]The first inhabitants of southern and western Europe, according to his system, helonged to two very distinct races; hut that region, from time to time, received many accretions from other tribes, mainly Oriental, such as Phenicians, Pelasgians, Cretans, Rhodians, Hellenes, Carthaginians, Phocians, Saracens, Huns, \&e.

His generic eharacters of the two primitive races may he gathered from the comparative columns we subjoin ; and, although, at this late day, it is impossible to separate completely elements so interblended, we think there is much truth in his ohservations, and refer at the same time to a book that teems with solid material for reflection.
"BLOND BACE.
"Head generally large, of elongated, and often equare, form; eyes blue, or bordering on blue; hair and beard blond, often red, bat withont Albinlem.
"Statare tall, and akin fair. In loye, natural chastity, with inclination to sentiment rather than sensuality.
"Aptitude to nuite in great assemblien, to make leagues, to ohoose a system of political unity, to live under the monarthical form.
" Fond of navigation, long roysges, adventarous expeditions.
"Commenced by the pastoral or nomadic atate, bave been developed in plaing, on the borders of great rivers, on the coasts of large bodies of watar, and in countries which posness netural modes of communication.
"BROWN BACE.
"Heod generally small, of round, but rarely square, form; eyes black or brown, or bordering on theec colors; hair and beard black, aometimes red; lut then there is Albinism, which in a pathological atale.
"Short stature, and brown akin. In love, sensuality more developed than seaciment.
"Avernion to all mitary gystomn, for great aspamblies or leagues. Peculiar disposition to live in a social state by provinces.
"Tenscions of their locality; opposed to distant expeditions.
"Hispe commenced by the egricaltural state, and Axed babitations. Have been doveloped in mountains, islande, and conntries, Lacking natural channels of communication. Have at sil times been addicted to the oxplorition of mines
"In war, prefer ceralry to infantry, the attack wo defence, open movements to ambuscades, pitched battles to small combats.
"Rusb impetaonsly into danger.
" Enreserved, gay, fond of noise, orations, strong drinks, and good eating. Frank and naive.
"Minds nsturally open to doubt, to oxminstion, to disouscion. Tolerant, and hold to the religious ides rather than to forms.
"Seek atrangers, nopeltiea, and ameliorations. Inconstant, violent, and impetrous, but asily forgive injuries.
"Are eminently eympethetic, initistory, marching incesesntly towards new ends.
"From its origin, has been under the influeace of cold climates.
"Its fecalties develop in the North.
"It produces, in preference, savang, reformers, creators of aystems - philosophers: men whose genius is manifested by profound meditations, by elevated resson, by sang froid, by coldness and investigation. Thas, Becon, Luther, Descartes, Llebnitr, Newton, Cavier, Fashington, and Fracklin.
"Predominsace of the aristocratio element, and political influence eccorded to Tomen.
"Its parilies are, the Celtie, which is divided into the Gaelic, Belgic, and Cymbric; then the Germaric, divided into Germans, Pranks, Fendalo, Goths, Angles, Saxons, Seandinsvians, and other blue-eyed nations, which have pleyed so important a part in the formation of the modern notions of Burope.
"Of Asiatio origin, it penetrated Europe from the East and North; thas, the Volgs and the Baltic.
"Considered in relation to the couptries Where we first see them, they are $\operatorname{Sman-}$ gers." '
"In mar, prefer infantry to cavalry, dofence to attack, ambuscades to open movementa, sod guerillas to pitched battles.
"AFait danger with frmneas.
" Uncommanicative, aober. Perfidion and reserred
"Credulous, intolerant, Ianstical; attached to religious forme rather than the ides; and reject disenssion, doubt, and inquiry.
" Hold strongly to ancient unages; feel a repugannce with regard to strangers.
"Unsympathetic ; possess, to an extreme point, the genius of resistance; tend pectlinrly to immobility and isolation.
" From ita origin, hes bean onder the influence of hot climates.
"Its faculties develop in the South.
"It producer, in preference, orators, warriors, artists, poets : med whose genins mgnifests itself by the exaltation of sentiments and idens, by onthusiesm, a repid conception. Thus, Hannibsl, Cicero, Cesar, Michelangelo, Taseo, Napoleon.
" Predominance of the demooratio eiement, and little politioal inflaence granled to women.
"Its varioties are, the Atlantes, divided into Libyans and Berbers; next, the Borians, divided into the Sicenians, Liguriann, Cantabrians, Ahturians, Aquitanians, and other people of brown skins, tho have played an important part in the formation of the ancient natious of Europe.
"Aborigines of Atlantis [ ? ]; penetrated Europe from the South and Feat; thus, Spain and the Ocean.
"Considered in relation to the coantries Where we first see them, they are Autocchones."
M. Bodichon, with most writers, thinks that the blond race entered Europe originally from Asia, and many strong reasons support this position, in reepect to those races found in Gaul and in countries north of it, during the recent times of the Greeks and Romans. Older races, notwithstanding - fated like our American aborigines - may have been exterminated by them, or have become amalgamated witb tbem. He supposes these blond immigrants from Asia to have been of the same race as the Hyksos, who conquered and took posses-
sion of Egypt some 2000 years в. c.; but our modifications of this view, from the study of her monuments, will appear in their place.
"On arriving in Caal, the Grels found the banks of the Rhone, the Garonne and the Loire, In possession of a people who apoke a different languaga and bad differant rasgre. They, from time immemorisl, had crossed the Pyrenees, and beld the soil es frot occupants. They were Merians."

About the time alluded to, there seems to have been a great commotion among the white races of Asia; and the Gauls or Celts, and perhaps the Hyksos, (whose name means "royal shepherd,") may have been diverging streams of the same stock. Dr. Morton points out a head, often repeated on the monuments of Egypt, which he

(of Scotland) may rocognise aspeaking resemblance." 57
But the interest in them is greatly en-

Fia. 10.
 regards as of Celtic stock. These people, called "Tokkari" in hieroglyphics, are prisoners in a eea-fight of Ramses III., of the XXth dynasty, about the thirteanth century b. c. They are, without question, the Tochari of Strabo. In his manuscript "Letter to Mr. Gliddon," Dr. Morton reputes these people to
"Have strong Celtic festares; as seen ln the sharp face, the large and irregularly-formed nose, wide moath, and e certain bersbaess of expression, which is characterintic of the same people in an their varied locslities. Those who are familiar with the Southern Highanders hanced by caneiform discovery.

Here are the game "Tokkari," from Asbytian monuments of the age of Senniacherib, about b. c. 700.s
It is, to say the least, a very remarkable fact, that we find upon Egyptian monnments, beginning from the XVIIth dynasty, B. c. 1600 , portraits in profusion, corresponding in all particulers with the blond races of Europe, whose written history opens as far west as Gaul and Germany: and now Assyrian seculptures present as with the same blond races in the VIIth and VIIIth century before our era.

When the two races first met in Europe, the blond from the south-east and the dark from the west, they encountered each othcr as natural enemies, and a severe struggle
ensued. The Gaels finally forced their way into Spain, and estrblished themselves there; became more or lees amalgamated with the darker occupants, and were called the Celt-Iberians. These two types have ever since been commingling; but a complete fusion has not taken place, and the types of each are still clearly traceable. One pristine population of the British Isles was probably Iberian; and their type is atill beheld in many of the dark-haired, dark-eyed and dark-skinned Jrish, as well as occasionally in Great Britain itself.

The enormous antiquity of the Berians in Europe is admitted on all hands; hut their origin has been a subject of infinite disputes. Their type, both moral and physical, is so entirely distinct from that of the ancient fair-skinned immigrante from Asia, that it would be unphilosophical to claim for both a common source, in the present state of knowledge.
Duponcead long ago moto of the Bazque, living representative of the Iberian tongue -
"This language, praserred in a comer of Enrope, by a few thouash monataineory, is the sole remaining fragment of, perhapes, a hundred dialeots, constructed on the same plan, which probably erigted, and vere nniveranlly apoken at a romote period, in that querter of the world. Like the bones of the mammoth, and the relles of anknown races whioh have perished, it remning a monument of the destraction produced by a succession of agse. It stands singie and alone of its kind, aurroundod by idioms whose modern oopstration beara no analogy to it"

We borrow the quotation from Prichard, ${ }^{\text {se }}$ who has profoundly investigated the theme; and this idea of the antiquity of the Basque or " Tberie" tongue, termed "Euskaldune" by its speakers, is eloquently exemplified by Lathas.

[^44]There was, truly then, an Iberian world hefore the Celtic world. ${ }^{61}$
" "Persons," continaes Bodichon, "Who hsve inhebited Brittang, and then go to Algeris, are struck with the regemblance which they discover between the ancient Armoricans (tha Brtions) aod the Cabyles (of Algeria). Io fact the moral and pbysical oharacter is identical.

- The Bréton of pure blood has s bony head, light yellow complexion, of bistre tinge, eyes black or browh, atature atrort, and the black hair of the Cabyle. Like him, he instinotively hatea strangers. In bath the same perterseness and obstinacy, same endurance of
fatigue, same love of independence, same inflexion of voice, same expression of feelings. Listen to a Csbyle speaking his native tongue, and you will think you hesr a Breton talking Celtio."

The Bretons to this day form a striking contrast with the people around them, who are -
"Celts, of tsll stature, with blae oyes, white skins and blond hair- they are com-- muniestive, impetuons, versetile; they paes rapidly from courage to timidity, end from audacity to despar. Thia is the distinctive charaotor of the Celtio race, now, as in the ancient Gauls.
"The Brotons are entirely different: they are tecitarn; hold otrongly to their ideas and usages; are persevering and melancholio; in a word, both in morale and phyaigeis they present the type of a southem race-of the Athanteans [Alelubider, Barber f)."
The early history of the world is so enshrouded in darkness, that science leaves us to probabilities in all attempts to explain the manner of the wandering of nations from primitive seats.
"Formeriy," say! Bodiahon, "northern Africs Fes joined to Earope by a tangue of land, afterwarde divided by the Straite of Gibraltar. The amemble of the Atlantic countries formed the [imsginary] isisad of Altantie. Is it not probable thet the Athanteant, foltewing the conat, pepetrated Spain, Oanl, and reached Armorios? In contact with the Celts, may they not have adopted some of their unagea? Theas African tribee, too, might have reached Europe by sea. The Atlanteans, among the anoients, passed for the farorite children of Neptuae; they mede known the worship of this god to other nations - to the Egyptians, for exmmple. In other words, the Atlenteans were the first hown navigetora Like ell nevigatora, they must bave plenied colonies at s dietuce - the Bratone (racs Brttonne) in our opinion spreng from one of them-" ${ }^{\prime 2}$
Our historical proofs of the early diversity of Caucasian types in Europe might be greatly enlarged; but the fact will be admitted by every candid student of ancient history, who, to the propositions that we have already supported by cumulative testimony, will add those more recently established in Scotland, through the inestimable researches of Dr. Danigl Wilson and his erudite fellow-laborers:
"The Celte, we have sean reason to believe, are by no means to be regarded as the primal beirs of the land, but are, on the contrary, comparatively reoent intruders. Ages before their migration into Europe, an unknown Allophylian race bed wandered to this remote island of the ses, and in its turn geve plece to later Allophylian nomades, also dentined to occapy it only for s timo. Of these antehiatorical nations, Arohneology alone reveals bay treoen" ${ }^{0}$
For our immediate objects, however, the acknowledgment tbat Europe and Asia Minor were covered, at epocbas antecedent to all record, by dark as well as by fair-skinned races, auffices. The farther back we joumey chronologically, the more conflicting hecome the tribes, and the more salient their organic diversities; and no reflecting man can, at the present day, cast bis eye upon the infinitude of types now extant over this vast area, and disbelieve tbat their originals were already located in Europe in ages parallel with the earlieat pyramids of Egypt, nor that some of them were indigenous to the European soil. The reader will hardly controvert this conclusion, after he bas . followed us through the types of mankind depicted upon ancient monuments.

## CHAPTER IV.

## PHYSICAL HISTORY OF THE JEWS.

Tris historical people furnishes so striking an example of the permanence of a Caucasian type, throughout ages of time, and in apite of all the climates of the globe, that we assign it a chapter apart; and if indelibility of type he a test of specific character, the Jews must be regarded as a primitive stock.
If the opinion of M. Agassiz, which coincides with what we have long maintained, viz., that mankind were created in nations, be correct, it follows that, in reality, there is no such thing as a pure Abrahamic race; but that this so-called "race" is made up of the descendants of many proximate races, which had their origin around "Ur of the Chaldees."
We have already set forth that the various zoological provinces pessess their groups of proximate species of animals, plants, and races of men; which differ entirely from those of other provinces. In like manner, around the waters of the Tigrie and Euphrates, for an indefinite diatance, and extending westward to the land of Canaan on the Mediterranean, were grouped certain races bearing a general resemblance to each other, although of distinct origins. This is not simply a conjecture; because we see these races painted and sculptared on the monuments of Assyria and Egypt. The striking resemiblance of physical characters among the whole of them is unmistakeable, and wherever the portrait of another foreigner to their stock is introduced, the contrast is at once evident.
Let us, in the first place, take a glance at the history of the Jews, as given by their own chroniclers. In Genesis, chap. xi., we are told that Abrabam, their geeat progenitor, is descended in a direct line from Shem, the son of Noah. Only ten generations intervene between Shem and Abraham; and the names, ages, and time of birth of each, being given by the Hebrew writers themselves, we are enabled to ascertain, with much precision, the length of time they eatimated between the Jewish date of the flood and the birth of Abraham. According to the Hebrew text, which must be regarded as the most autbentic, it was 292 years.

It is certainly reasonable to infer that Abraham inherited, tbrough these fery generations, the type of Shem and Noah (supposing the
latter to be historical personages); for there are many examples where races have preserved their types for a mueh longer time; and the Jews themselves, 昭 we shall show, have maintained their own type, from the epoch assigned to Abraham, down to the present day. The - era of Abraham has been variously estimated, from 1500 even to 2200 years b. c.; which would give to his descendants at least one hundred generations, according to the common rules of vital statistics.

It should he kept in view that we are here treating the Book of Genesis according to the vulgar understanding of its language. In Pabt IL, and in the Supplbagnt, it is shown that a far different construction has been adopted by the best acholars of the day; who regard the so-called ancestors of Abraham as geographical names of nations, and not as individuals.

The inadequacy of King James's Version to express literally the meaning of Hebrew writers, compels us to follow the Bible of Cahen, Director of the Israelite Scbool of Paris, and one of the ablest translators of the day. This work, printed under the patronage of LovisPhilippe, commenced in 1831, and completed its twenty-two volumes in 1848: "La Brble, Traduction Nouvelle, avec I Hébrew en regard; accompagné des points-voyelles et des accens-toniques, avec des notes philologiques, géographiques et littéraires; et les variantes des Septante et du texte Samaritain." There is nothing like it in the English language; nor shall we discuss Old Testament questions with those who are unacquainted with Cabrs and the Hebrew Text. Neither must the reader infer, from our general conformity with the ordinary mode of expression, that we regard the documents of Geuesis otherwise than from the scientific point of view.
The country of Abraham's birth was Upper Mesopotamia, between the waters of the Tigris and Enphrates, not very far from the site of Nineveh; and, after his marriage with Sarai, his history thus con-tinues:-
"And Terah took Abram, his mon, and Lot the son of Heran his son'a son, and Sarai his doughter-in-law, his son Abram's wife; and they went forth together from Ur of the Chaldees [AUR-KaSDIM], to go into the land of Cenean; and they oame unto Haran and dweit there, and the daye of Terah were 200'years, and Terah died in Haran.
"Now IeHOnsH said unto Ahram, Get thee out of thy country and from thy birth-place and from thy father's bouse, onto a land which I will show thee. And I will make of thee a grast nation, and I will bleca thee, and I will aggrandixe thy name, and thou shalt be a blessing." 64

Accordingly, Abraham and Lot, with their families and their flocke, journeyed on, "and in the land of Canaan they arrived." "And SeHOuall appeared unto Abram and said, Unto thy seed will I give this land."

They were soon driven to Egypt, by a grievous famine, to beg corn
of the Pharnoh who then ruled over that country; but, after a short sojoum there, they returned to the Promised Land, and pitched their tents again on the very spot from which they had been taken. "And the Cananite and the Perizzite then dwelled in the land."
Abram and Lot soon separated; and "Abram struck his tents, and came, and eatablished himself in the grove of Mamre, which is near Khebron, and there be built an altar to IeHOuaH." In his eightysixth year of age, Abram's Egyptian concubine Hagar (whose nime means desert, stone) gave birth to Ishmabl; who, launched into Arahian deserts, became the legendary parent of Bedouin tribes; while, to us, he is the earliest Biblical instance of the mixture of two types - Semitic and Egyptian.

Then the patriarch's name was changed: "Thou shalt no longer be called ABRaM (father of high-land); thy name shall be ABRaHaM (father of a multitude), because I bave rendered thee parent of many nations." ${ }^{\circ}$
Sarai, at ninety years of age, gave birth to Isacc, FTsKhaK, "laughter." Her own name, also, had previously been cbanged: "Thou shalt no longer call her SaRaI [adyship], her name is now SaRaH [a woman of great fecundity]." ${ }^{\infty}$ She died at the age of one bundred and twenty-seven years, and was buried in the family cave, which Abram had purchased in Canaan. Wishing then to dispose of his son Isaac in marriage, Abraham said to bis moast aged slave, "I will make thee swear by IeHOuaH, God of the skies and God of the earth, that thou sbalt not take for my son of the daughters of the Canaanite [nether-landers] amongst whom I dwell, but thou shalt go into my country, and to my birth-place, to take a woman for my son Isaac." ${ }^{\prime \prime}$ And, accordingly, the slave went back into Mesopotamia, unto the city of Nahor, and brought Rebecca, the cousin of Irasc, whom the latter married.
The next link in the genealogy is Jacob; who, after defrauding bia brother Esau of his birtbright, retired, from prudential motives, into the land of bis forefathers, and there married Leah and Rachel, the two daughters of Laban. Isaac lived to be one hundred and eighty, and Jacoh one bundred and forty-seven yeara old; and they were both deposited in the family cave, or maueoleum. So tenacious were they of their customs, that Jacob, after being embalmed with great ceremony, was carried all the way back from Egypt, as was afterwards his son Joseph, to repose in the same family burial-place; which, our Supplement shows, is not a cave called "Machpelah," but "the cavern of the field contracted for, facing Mamre."

Here closes the history of those generations which preceded the departare of tbe Israelites for Egypt; and the evidence is clear, up to 15
this epoch, as to the extreme particularity (Ishmazy being outlawed) with which they preserved the purity of their hlood, as well as the custom of "sleeping with their fathers."

Who the Canasnites were has been amply treated in Part II. It suffices here to note that Knd means "low;" and that Carlaanites, as lowlanders, were naturally repagnant, at first, to the ABRaMidex, or "highlanders" of Chaldean hills.

Let as follow this peculiar people through the next remarkable page of their history. The whole sept amounted to seventy persons in number, viz.: Jacob and his eleven sons, who, with their families, hy the invitation of Joseph, the twelfth, migrated to Egypt; and were thereapon settled in the land of Goshen, apart from the Egyptians. Thus aecluded, they must have preserved their national type tolerably unchanged down to the time of the Exodus, when they carried it back with tbern to tbe land of Canaan. Exceptional instances fortify tbe rule : else wby should the genesiacal writer particularize the marriage of Josepi with ASNeiTh (the devoted to the goddess Neith), daughter of Potiphar (PET-HER-PHRE, the belonging to the gods Horus and $\boldsymbol{R a}$ - "priest of On," Heliopolis), an Egyptian woman? ? Judar had begotten illegitimate children by the Canaanite Shuat; ** Mosks, born, and educated in Egypt so thoroughly as to be called a "Mizriteman," had wedded an Arabian Zipporan, Tai-PhRaH (literally, daughter of the god Ra), tbe daughter of Jethro, a pagan "priest of Midian :" $n$ and, besides the GouM AâRaB, Arab-horde (falsely rendered "mixed multitude" $"$ ), that journeyed with the Sinaic Israelites, and with whom there must bave been illicit connexions, there was at least one son of an Egyptisn man, by an Israelitish voman, in the camp. ${ }^{7}$ Other examples of early Hebrew proclivity can be found; but these suffice to indicate exceptions to the law afterwards promulgated. Under the command of Joshua, the land of Canaan was conquered, and divided amongst the twelve tribes; and from tbat time down to the final destruction of the Temple by Titus (70 A. D.), a period of about 1500 years, this country was more or less occupicd by them. They were, bowever, almost incessantly harassed by civil and loreign wars, eaptivities, and calamities of various kinds; and tbeir blood became more or leas adulterated with that of Syro-Arabian races around tbem; the type of whom, however, did not differ materially from their own.

We shall not impese on the patience of the reader, by recapitulating the long list ofevidences which are found in bistory, both sacred and profane, to prove the compantive purity of the blood of the Isrselites downito the time of their dispersion ( $70 \mathrm{~A} . \mathrm{D}$.). The avoidance of marriages with other races was enjoined by their religion,
and this custom has been perpetuated, in an extraordinary degree, through all their wanderings, and under all their oppressions, down to the present day.

But, while all must agree that the Jews have, for ages, clung together with an adhesiveness and perseverance unknown, perhaps, to any other people, and that their lineaments, in consequence, have been preserved with extraordinary fidelity; it must, on the other hand, be admitted that the race has not entirely accaped adulteration; and it is for this reason that we not unfequently see, amongat those profeseing the Jewish religion, faces which do not bear the stamp of the pure Abrahamic stock. We have only to turn to the records of the Old Testament, to find proofs, on almost every page, that the ancient Hebrews, like the modern, were but human beings, and subject to all the infirmities of our nature. Even those venerable heads of the Hebrew monarchy, whose names stand out as the land-marks of sacred history, were not untarnished by the moral darkness which covered the early inhabitants of the earth.

Tbe history of the connubial life of the patriarchs, Abraham and Jacob, presents a picture quite revolting to the standard of our day. After the promulgation of the Mossic laws, the Iaraelites were expressly forbidden to intermarry with aliens; and yet the injunction was often disregarded. Abrahsm, besides his Arab wife Ketocran, and Joseph, as just ahown, had both taken women from among the Egyptians; and Moses had espoused an Arab (Cushite ?). David, tbe man after God's own hcart, long after the promulgation of the law, not only had his concubines, but so far forgot himself as to commit adultery with Bathsheba, the wife of Uriah, the Hittite; and, after murdering the hurband, married her, and she became the mother of the celebrated Solomion. Next, on the throne, came Solomon himself, whose career, opening with murder, closed in Paganism. He also married an Egyptian (a princess); enjoying, hesidea, seven hundred other wives and three hundred concabines: for "King Solomon loved many strange women, together with the daughter of Pharaoh - women of the Moabites, Ammonites, Edomites, Sidonians, Hittites, and of other nations:" ${ }^{4}$ and so promiscuous was dis philogamy, that some commentators have imputed scandal even to the "Queen of Sheba," the sombre belle of Southern Arabia. Even the noble-hearted Judah, the "Lion's Whelp," the last column of the twelve that stood erect in the sight of Jehovah, and whose especial mission it was to regenerate and raise up the fallen race in purity and power, even he, not only wedded an impure Canaanite, but was tempted to crime hy his own daughter-in-law, diaguised as a harlot, on the road-side; and, so far from repenting the sin, he had two children by her. Nor need
we remind the reader of the unfortunate affair of Sarah with Pharaoh, and again with Abimelech.

We might thus go on, and multiply examples of similar import from Jewish annals; but to us it is much more pleasing to draw the veil of oblivion over the depravity of those primitive days, and to remember only the noble moral precepts bequeathed us by the kings and prophets of Judea. These, however, are historical facts, having important bearings on the subject before us, and must not, therefore, be passed over in silence. They show clearly that the ancient Israelites were restrained by no moral force which could keep their genealogies pure; but, in comparison with every other people, there is enough to justify us in believing that their pedigrees are to be relied on for a long series of generations. Those among Jews of the present day who preserve what is regarded as the national type, must necessarily be of pure blood; while those who do not, must be traced up to foreign alliances.

Fig. 11.


Fra. 12.


It will illustrate the indelibility of the Abrahamic type to present here a mummied Shemitish head, from Morton's collection. ${ }^{75}$ Being bituminized, the skull cannot be much older than the time of Moses - say, fifteenth century в. c. Nor, inasmuch as general mummification ceased about 300 years after Christ, can it be less than 1500 years old. From its style and Theban extraction, it may be referred to Solomonic days ${ }^{76}$ - yet, how perfectly the He brew type is preserved!
Fresh from exhumations in the father-land of Abrafam, we add a higher variety of the same type Part of a Colossal Head from Kouyunjik. ${ }^{7}$ Its age is fixed between the reign of Sennacherib and the fall of Nineveh, about the seventh century в. c. And still, after 2500 years, so indelible is the type, every resident of Mobile will recognize, in this Chaldæan effigy, the facsimile portrait of one of their city's most prominent citizens, who is
honored alike by the affection of his co-religionists, and the confidence of the community which has just elevated him to a seat in the National Councils.

All written descriptions of early times, relative to the Jewish race, concar in establishing the permanence of their type. We are informed, by modern travellers, that the same features are common in Mesopotamia, their original seat, and also scattered through Persia, Afghanistan, \&c.; the direction in which, we are tanght by the annals of modern times, some descendants of the ten tribes were dispersed, long after the Aesyrinn captivity in the eighth century b. c. In short, the Jewish features mect one in almost every country under the sun; but it is worthy of special remark, that Hebrew lineaments are found in no region whither history cannot track them, and rarely where their possessors do not acknowledge Jewish origin. Nor will the fact be questioned, we presume, that well-marked Israehitish features are never beheld out of that race; although it has, as we shall show, been contended that Jews in certain climates have not only lost their own type, hut have become transformed into other races!
The number of Jews now existing in the world, (of those that are regarded as descendants in a direct line from, and maintaining the same laws with, thcir forefathers, who, above 3000 years ago, retreated from Egypt under the guidance of the lawgiver, Moses,) is estimated by Weimer, Wolff, Milman, ${ }^{8}$ and others, variously, from three to five millions. In all climates and countries, they are recognized as the same race. Weimer, whose statistics are lowest, gives the following: -

[^45]served, unchanged, the same features which the Almighty stamped on the first Hebrew pairs created. It may be well to denounce, as vulgar and unscriptaral, the notion that the features of the Jews are attrihutahle to a suhsequent miracle, or that God has put a mark upon them, hy which they may be always known, and for the mere purpose of distinguishing them from other races. If we are correct in carrying their type back to times preeeding the Exodus, this superstition must fall to the ground. The Almighty, no doubt, individualized all human races, from the beginning.
It is admitted, hy ethnographers of every party, that mankind are materially influenced by climate. The Jewish ekin, for example, may become more fair at the north, and more dark at the tropics, than in the Land of Promise; hut, even here, the limit of change stops far short of approximation to other types. The eomplexion may be hleached, or tanned, in exposed parts of the body, but the Jewish features stand unalterably through all climates, and are superior to such influences.

Nevertheless, it is stoutly contended, even at the present day, that Jews, in various parte of the world, have heen tranamuted into other types. Several examples (so supposed) have been heralded forth to sustain the doctrine of the Unity of the human specics. We have examined, with care, all these vaunted examples, and feel no hesitation in asserting that not one of them possesses any evidence to sustain it, while the proof is conclusive on the opposite side.
The most prominent of these mendacious instances is that of the black Jetos in Malabar; and this has been confidently cited by all advocates of the doctrine of Unity, down to the Edinhurgh Review, 1849. Prichard, in his great work, has dodged this awkward point, in a manner that we are really at a loss to underatad. In the second edition (1826) of his "Physical History of Mankind," he stated the facts with sufficient fairness; whereas, in the last, he suppresses them entirely, and passes over them without uttcring one word in support of his previous assertions-merely saying that there is "no eridence" to show that the black Jews are not Jews. We shall here introduce testimony to prove our position, that the subjoined facts, though familiar to our author, are eluded by him with most

- ominous silence.

Under the protection and patronage of the British government, the Rev. Cladius Buchanan, D.D., late Vice Provort of the College of Fort William, in Bengal; well known for his learning, fidelity, and piety; visited and apent some time amongst the white and the black Jews of Malahar, near Cocbin, in 1806-7-8; and the testimony given in his "Asiatic Researches" is so remarkable, and the subject so important, that we venture a long extract. The "Jerusalem, or white

Jews," he tells as, live in Jews' town, about a mile from Cochin, and the "ancient, or black Jews," with emall exceptions, inhalit towns in the interior of the province.
"On my inquiry (continues Dr. Buchanan) into the antiquity of the white Jews, they firat delivered me a narrative, iq the Hebrem languge, of their arrival in India, which has been handed down to them from their fathers; and then exhihited their nocient brass plate, contsining their charter and freedom of residence, given hy a king of Malabar. The following is the narrative of the events relating to their first arrival : -
"'After the second Temple wan destroyed, (which may God speedily rehaild!) our fathers, dreading the conqueror's wrath, departed from Jerasalem - a numerous body of men, women, prieats and Lovites-and came into this land. There were among them men of reputa for learning and wiadom; asd God geve the people faror in the sight of the ling Fho at that time reigned here, and be granted them a place to dwell in, called Cranganor. He allowed them a patriarchal jurisdiction in the district, with cerlain privileges of nohility; and the royal grant was engraved, acoording to the custom of those days, on a plate of brass. This was done in the year from the crestion of the world 4250 (A. D. 490 ); and thin plate of brasa we blill heve in possession. Our forefathers continued at Cranganor for about one thousand years, and the number of heads who governed were seventy-two. Soon after our aetclement, other Jews followed us from Judea; and among tbem came that man of great wisdom, Rebbi Samuel, a Levite, of Jerusalem, with his sod, Rabbi Jebude Lerita. They hrought with them the silver trumpete made use of at the time of the Jubilee, which were saved when the second Temple wes destroyed; and we have heard, from our fathere, that there were engrayea upon those trumpeis the letters of the Ineffable Name. Tbere joined us, also, from Spain and other places, from time to time, cerlain tribes of Jews, who had heard of our prosperity. But, at last, discord ariaing among ourselves, one of our chiefs called to his assistance an Indian king, who came upon us with a great army, destroyed our houses, palaces and strongholds, dispossessed us of Cragganor, killed part of us, and carried part into captivity. By these massacres we were reduced to a small number. Some of the exiles came and dwelt bt Cochin, where we bsve remained ever since, suffering great changes, from time to time. There are amongat us some of the children of Israel (Beni-Israel), who came from the country of Ashkenax, from Egypt, from Tsoba, and other pleces, besides those who formerly inhabited this country.'
"The native annals of Malahar confirm the foregoing account, in the principal circumetances, en do the Mahommeden histories of the lster eges; for the Mahommedans have been settled here, in great numbers, since the eighth century.
"The desolation of Cranganor the Jews describe as being like the desolation of JertItm in ministure. They wers first received into the conntry with some favor and confidence, mgreably to the tanor of the general prophecy concerning the Jews - for no country was to reject them; and, efter they had oblained some wealth, and attracted the notice of men, they are precipitated to the lowest abyse of homan auffering and reproach. The recital of the sufferinga of the Jews at Crangenor resembles much that of the Jews at Jerusalem, as given hy Josephus. [Erectiy! Notice also the " 72 " governors, and the " 7 " kings.-G. R. G.]
"I now requented they would ahow me their brass plate. Haying been given hy a rative ling, it is mritten, of coarse, in the Malabaric langaage and character, and is now so old that it cannot well be onderstood. The Jews preserve a Hebrew tranalation of it, which they presented to me; but the Hebrew itself is very difficalt, and they do not agree among themselves as to the meaning of some words. I have employed, by their permigrion, an engraver, at Cochin, to execute a feo-simile of the original plate on copper. This snoient: document begins in the following meaner, according to the Hebrew transintion: -
" ' In the peace of Giod, the King, which hath made the earth according to his pleasurefo thig God, I, AIRVI BRAHMIN, have lifted up my band and have granted, by this deed, Fbich many bundred thousand years shall run-I, dwelling in Cranganor, have granted, in
the thirty-dixth year of my reigr, in the streagth of power I have given in inheritance, to Jobipa Rabian-"
(Here follow several privileges, \&c.)
"What proves the importance of the Jews, at the poriod when this grant wis umade, is, that it is eigned by seven kinge as witrosses. (The pames are here given.)
"There is no date to the document, farther then what may be collooted from the reiga of the prince, and the names of the rojal winaseses. Dates are not usanl in old Malabsric writing. One fact is evident, that the Jews must have existed a considerable time in the country before they could have obteined sucb a grant The tradition, beforsmentioned, ansigns for the date of the transaction the year of the creation 4250, which is, in Jewish computation, A. D. 490 . It is well known that the famons Malabario king, Cohan Pabumal, mide granta to the Jewa, Christiana, and Mabominedany, during his reiga; but that prince flourished in the eighth or ninth century."

Archroologically, the date assigned to this document is a manifest imposture, for any epoch anterior to 900 years after Christ. That change of religion from Brahminism to Judaism cannot metamorphose Hindoo renegades into Jews, is evident from what follows.
Spenking of the black Jewe, Dr. Buchanan thus continues:-
"Their Hindoo complexion, and their very imperfect resemhlance to the European Jews, indicate that they bave been detached from the parent stock, in Jaden, many ages before the Jews in the west, and that there have been intermarriages with families not Ircelitioh. I bad heard that those tribes, whieh had passed the Indas, had assizilated so much to the customs and habits of the countries in which they live, that they sometimes may he seen by a traveller without being recogaized as Jews. In the interior towne of Malabar, I was not alwayg nble to distingoish the Jew from the Hindoo. I hence perceived how easy it may be to mistake the tribes of Jewish descent among the Afghans and other nations, in the northern parts of Hindostan. The white Jews look upon the black Jewa as an inferior race, and as pot of pure caste, which plainly demonstratea that they do not spring from a common stock in India." 79

The evidence of Dr. Burchanan can scarcely leave room for a doubt that the white Jews had been living at least a thousand yeare in Malabar, and were still white Jews, without even an approximation, in type, to the Hindoos; and that the black Jews were an "inferior race"-"not of pure caste"-or, in other words, adulterated by dark Hindoos - Jews in doctrine, but not in stock.
But we have another eye-witness, of no less note, to the same effect, namely, Joseph Wolff, a Christianized Jew, wbose authority is quoted in places where modern Jews are spoken of. He assures us, ${ }^{30}$ that the black Malabar Jews are converted Hindoos, and at most a mixture only of the two races. Similnr opinions have been expressed by every competent authority we have seen or can find quoted; and even Prichard, in his laborious work, while he slurs over all these facts with the simple remark tbat there is "no evidence" in favor of Buchanan's opinion, ventures to give not a single authority to rebut him, and offers not a solitary reason for doubting his testimony. And, we say it with regret, that tbis is but one of Dr. Prichard's many unfair modes of sustaining the doctrine of the unity of mankind. We
may add, also, that the opinions of Buchanan and Wolff are those of all Judxans of our day, as far as we have been able to ascertain them. Mr. Isaac Leeser, the learned and estimable editor of the "Occident," at Philadelphia, in answer to our inquiries, thus writes: -
"You may freely assert that in all assentials, the Jews are the same they are represented on the Egyptign monamenta; and a comparison of 3800 years ought to be sufficient to prove that the intermediate links beve not degacorated. . . . The black Jews of Malabar are not a Jewish race, according to the accounts which bave appeared from time to time in the papers. They are most likely converts to Judaism, who, never hnving intermartied with the white Jews, have retained their original Hindoo complexion, and, I believe, language."

Although this letter of Mr. Leeser was written in haste, and not for publication, his well-known respectability and talent lend so much weight to any thing be would utter ahout his co-rehgionists, that we cannot forego the pleasure of giving another and longer extract from it. He says:-
"In respect, bowever, to the true Jewish complexion, it is fair; which is proved by the variety of the people I heve seen, from Perais, Russia, Paleatine, and Africs, not to menLion those of Eumpe and America, the latter of whom are identioal with the Europeans, like all other white inhabitants of thls continent All Jews that ever I have bebeld are iderfical in features; though the color of their akin and eyes differs materially, inasmuch an the Soutbern are nearly all black-eyed, and somewhat asliow, while the Northern ere blueeyed, in a great measure, and of a fair and clear complexion. In this they assimilate to all Caucasians, when transported for a number of generations into various climates. [?] Thongh I nm free to admit that the dark and hazel eye and tawny akin are oftener met with among the Germanic Jews than among the German natives proper. There are also red-haired nod whise-haired Jews, as well as other people, and perhaps of as great a proportion. I speak now of the Jew north - I am myself a native of Germany, and among my own family I know of none without blue eyes, brown hair (though mine is black), nad very fair skin - atill I reoollect, when a hoy, seeing many wha had not these characteristics, and had, on the contrary, eyes, hair, and skin of a more southern complexion. In America, you will see all varieties of complexion, from the very fair Canadian down to the almost jellow of the West Indian -- the latter, however, is solely the effect of exposure to a delectrious climate for several geoeratioos, which changes, I should judge, the texture of the hair and skin, and thus leavea its mark on the constitution - otherwise the Cancasian type is strongly developed; but this is the case more emphatically among those aprung from a German than a Portuguese stock. The latter was an original inhabitant of the Iberian Peninsola, and whether it was preserved pure, or hecame mixed with Moorish blood in the process of centaries, or whether the Germans contracted an intimacy with Teulonic aations, and thus aequired a part of their national sbaracteristics, it is impossible to be told now. Bat one thing in certain, that, hoth in Apain aod Germany, conversiona to Judaiam during the early ages, asy from the eighth to the thirteenth century, were by no means rare, or else the governmenta would not have so energetically prohibited Jews from making proselytes of their servanis aod others, I know not, indeed, whether there is any greater physical discrepancy bet Feen northern and southern Jews than between Rnglish families who continue in Englend or emigrate to Alabems $\perp$ I rether judge there is not."

Mr. Leeser professes not to have paid any special attention to tho physical history of the Jews; but, nevertheless, his remarks corro borate very strongly two important points: 1st, That the Jews merely undergo those teruporary changes from elimate which are admitted by
all ethnographers; and 2d, that they have occasionally mingled in blood with Gentile races; amalgamations that account for any visible diversity of type amongst them.

And that we have sought for information among the best informed of the Hebrew community in the United Statea, may be inferred from the subjoined letter of an authority universally known, and by all respected. His testimony confirms Mr. Leeser's, no less than that of every Hebrew we bave been able to consult.
"The black Jews of Madsbar are dot descendente of Abraham, Iseac, and Jacob, but are of Hindoo origin. At Cochin, there bre two distinct communities of Jewa: one, white, was originally settled at Cranganor, but when the Portugaese became too poverful on that coest (A. $\mathbf{D} 1600$ to 1690 ) removed to Cochin. These Jews have been residents in India congidersbly above 1000 years, but still retain their Jewieh cast of features, and, though of dark complexion, are not black. They never intermarry witb the aecond community, also Jews, but black, of Hindoo origin, and, according to tradition, originally bondmen, but converted and manumitted some 300 yeara ago. Thougb of the same religinn, the two races are, and keep digtinct. In the interior of Africe, many Negrees are found who profeas to be Jews, practiae ciroumcision, and teep the Sabbath. These are held to be the descendents of slaves who were converted by their Jewish masters, and then mannmitted. All the Jema in the interior of Africa who are of really Jewish descent, as, for ingtadce, in Timbuctoo, the Degert of Sahars, sc., though of dark complexion, are not hleck, and relain the charceteristic cast of features nf their race - so they do likewise in China.

> "J. C. Nott, M. D., Mobile." "Yoara, \&c. M. J. RapHaLI.

We think it is now shown satisfactorily that the "Black Jews" of India are not Jews by race, any more than the Negro converts to Judaism known to exist at Timbuctoo, or the many Moorish adherents to the Hebrew faith scattered throughout the States of Barbary. There are authors living who insist that the aborigines of our American contincat are lineal descendants of the lost ten tribes, which have run so wild in our woods as to be no longer recognizable! Other examples of Jewish physical transformation have been alleged, but they are even less worthy of credit than the preceding. The Jews of Abyssinia, or Falashas, as they are called, may he noticed. They do not present the Jewish physiognomy, but are, doubtless, composed of mixed bloods, Arabian with African, and converts. Before us lics a pamphlet by Dr. Charles Beke, the very erudite Abyesinian traveller. ${ }^{91}$ This essay was read on the 8th of February, 1848, before the Syro-Egyptian Society of London, and Dr. Beke's standing as an orieutalist requires no comment. Wis information was obtained from the Falashas themselves; bis opinion formed in presence of the apeakers.
"There in, however, no reason for imagining that these Israelites of Abysainis, who are known in thet country by the name of Falarhat, are, as a people, the lineal descendants of eny of the tribes of Israel. Their paculisr ianguage, which they still retain, differs entirely from the Syro-Ambian class to which the Ethiopio and Amharic, as well as the Hehrew and Arabic, belong, and is cogante mith, and olosely allied to, the exising dialects spoken by the

A'gang of Lasto and the A'gaumiter: a circumstance affording a strong ergument in support of the opinion that all these people are deacended from an aboriginal race, which bas been forced to give way before the adfances of a younger people from the opposite ahores of the Red Bea-firat in Tigre, and subsequently in the countries sdjacent to Bab-al Mardeb.
"It is not till abovt the tenth century of the Chriatian ora that we posseas any history of the Iarselites of Abyasinia, as a separate people; and even then the particulara respecting them, which are to be gethered from the annals of the country se giren by Bruce, must, in the earlier portions at least, be received with great ceution."

Bruce, in the second volume of his Travels, gives an interesting account of this people. He regards them really as Jews, but expresaes sundry doubts, and thinks the question must be determined hy future philological researches. Such researcbes have been made since his day, and the decision of Beke is recorded above. Even Prichard did not credit Bruce's narrative.

The history of the ten tribes affords also conclusive evidence of the influence of Jewish intermixtures with alien races. In the eighth century b. c., they were conquered, and carried captive, hy Tiglathpilesar and Shalmanasar, into the north-western parts of the Assyrian empire; their places being supplied by foreign colonists from that country. These, with a few remaining Israelites, formed the Samaritans of after times; hut the ten tribes have heen scattered, and most of them lost by Assyrian amalgamations, or absorption into cognate Chaldaan tribes.


#### Abstract

"The Aftgbans, as before remarked, bear strong marks of the Jewish type, and are doubtless descended from the ten tribes. . . . The Afghane have no resemblance to the Tartars who sarround them, in person, habite, or language. Sir William Jones (and thig opinion is cow prevalent) is inclined to believe that their descent may be traced to the Israelites, and adde, that the beat-informed Persian historiang have adopted the asme opinion. The Afgbens have traditions among themselvea which render it very probsble that this is the just account of their origin Many of their families are distinguished by names of Jewish tribes, though, since their conversion to Islam, they conceal their desoent with the most scrupulone care; and the whole is confirmed by the circumstance that the Pubito has so pear an affinity with the Challaic that it may justly be regarded as a dialeot of that tongue. They are now confounded with the Arabe."Es


This quotation is a fair specimen of the fabulous ethoography current among orthodox littérateurs of our day. Tbere is no Biblical or historical basis for the first assumption: the second is a misappreheasion, attributing to Judaism that which is duc to Islamism in the last 1000 years; and the third is explained hy linguistic importations, Persic and Arabian; becauso the Pushto is a Medo-Persian branch of Indo-European languages. Prichard himself treats Affghan derivation from the Israelites with a sneer ${ }^{83}$ - but the reader is referred to our Supplement for further citations on the subject, from the works of thorough orientalists, who unite in tertifying that the Semitic element in Affghanistan, out of the synagogues, is exclusively Arabian.

Fia. 18.


The portrait of Dost-Mонамmbd* blends Semitic features with those of the true Affghan; and suffices to illustrate the similitudes perceived by tourists who, partial to a theory of the "ten tribes'" journey into Tartary, have been blinded to the palpable diversities of osteological structure, which even Arab blood has not obliterated.

We have thus gone over the physical history of the Jewish race; and, although the argument is very far from being exhausted, we think enough has been said to satisfy any unprejudiced mind that this species has preserved its peculiar type from the time of Abraham to the present day, or through more than one hundred generations; and has therefore transmitted directly to us the features of Noah's family, which preceded that of Abraham, according to the so-termed Mosaic account, by only ten generations.

If, then, the Jewish race has preserved the type of its forefathers for 3500 years, in all climates of the earth, and under all forms of govern-ment-through extremes of prosperity and adversity-if, too, we add to all this the recently developed facts (which cannot be negatived), that the Tartars, the Negroes, the Assyrians, the Hindoos, the Egyptians, and others, existed, 2000 years before the Christian era, as distinct as now; where, we may ask, is to be found the semblance of a scientific argument to sustain the assumption of a common Jewish origin for every species of mankind?

Accounts of the Gipsies offer such curious analogies with those of the Israelites, that it may not be out of place to add a word respecting them.

[^46]This isolated race is involved in mystery, owing to absence of traditions; though, from their physical type, language, \&c., it is conjectured that the Gipsies came from some part of India, but at what time, and
why, cannot now be determined. It has been said that they fled from the exterminating sword of the great Tartar conqueror, Timùr Leng (Tamerlane), who ravaged India in 1408-'9 A. D.; but there will be found, in Borrow's work, very good reason for believing that they might have migrated, at a much earher period, north, amongst the Selavonians, before they entered Germany and other countries where we first trace them. However, we know with certainty that, in the heginning of the fifteenth centary (about the time of Timur's conquest), they appeared in Germany, and were soon scattered over Europe, as far as Spain. They arrived in France on the 17th of August, 1427 a. d. Their number now, in all, has been estimated at about 700,000 , and they are acattered over most countries of the 'habitable globe-Europe, Asia, Africa, South America, and some few in North America. "Their tenta are pitched on the heaths of Brazil and the ridges of the Himalaya hills; and their language is heard in Moscow and Madrid, in London and Stamboul." "Their power of resisting cold is truly wonderfinl, as it is not uncommon to find them encamped in the midst of the snow, in elight canvass tents, where the temperature is $25^{\circ}$ to $30^{\circ}$ below the freezing point according to Reaumur;" while, on the other hand, they withstand the sultry climes of Africa and India. ${ }^{\text {se }}$

The Gipsics are the most prominent of numerous and diverse tribes diffused in little groups over the four continents, to whom Prichard's term "Allophylian races" would properly apply. A hist might he made of them; their occurrence in islands, remote valleys and mountain-fastnesses, or even amid dense populations, being far more frequent than is generally supposed. In the absenceof all record beyond that of modern days, (their existence known only hy their discovery, ) we refrain from the labor of enumeration, with the sole remark, that to us they all are mementos of the permanence of type, athwart ricissitudes certainly endured, but unrecorded by themselves: each being a relic of some primitive type of man, generally displaced from its geographical centre of creation, that, having served in days of yore the purposes of the Creator, is now abandoned (with so many others, now lost like the Gruanches) to its fate, scarcely affording history sufficient for an epitaph. ${ }^{\infty}$
But it is time to illustrate the subject monumentally; and the words of an illustrious countryman will ubber in the facts with which none are better conversant than himself. After alluding to changes wrought hy climate on domestic animals and plants, Dr. Pickering maintains: -

[^47]United States. In Arabia, where the mixtures are more complicáted, and have been going on from time immemorial, the result does not appear to have been different. On the Egyptian monuments, I was unable to detect any change in the races of the human family. Neither does written history afford evidence of the extinction of one physical race of men, or of the development of another previously unknown." 87
Proceeding retrogressively, and closely as the theme can be elucidated, we present the only bas-relief which, throughout the entire range of hieroglyphical or cuneiform discovery hitherto published, in all probability represents Jews.

Fig. 14.

( 2 Kings xviii. 14; Isaiah xxxvi. 2. About 700 b. o.)
"Jewish Captives from Lachish" (Fig. 14), disinterred from Sennacherib's palace at Kouyunjik, is the title given to the original by its discoverer, ${ }^{\infty}$ who says -
"Here, therefore, was the actual picture of the taking of Lachish, the city, as we know from the Bible, besieged by Sennacherib, when he sent his generals to demand tribute of Hezekiah, and which he had captured before their return. . . . The captives were undoubtedly Jews - their physiognomy was strikingly indicated in the sculptures; but they had been stripped of their ornaments and their fine raiment, and were left barefooted and halfclothed."

Allowance made for reduction to so small a scale, the ethnological Fig. 15.
 character of this bas-relief is not so strikingly effective in respect to true Hebrew physiognomy, as it is (when compared with other Chaldæan effigies) to show the pervading character of many Syrian and Mesopotamian races 2500 years ago.

These Elamites (Fig. 15). probably, if not Arabs, "loading a camel," ${ }^{80}$ belong to the same age, and supply one variety; while here
"Captives employed by Assyrians" ${ }^{\circ}$ (Fig. 16), furnish another.

Divested of beard, other "captives in a cart" ${ }^{11}$ (Fig. 17) portray characteristics verging toward an upland, or Armenian, expression; at the same time that these upon

Fig. 16.


Fig. 17.

an undated "Babylonian cylinder" ${ }^{\text {sc }}$ (Fig. 18), too minute in size for ethnographical precision, indicate more of wild Arab lineaments: an inference which the low-land site of Babylon, where Mr. Layard found it, may justify. If we contrast these last with (Fig. 19), an Egyptian artistic idea of a "Canaanite" (KANĀNA-barbarian), ${ }^{, 0}$ the prevalence of this socalled Semitic type from the Euphrates, through Palestine, to the eastern confines of the Nile, becomes exemplified, back to the twelfth and fifteenth centuries в. c., as thoroughly as ocular observation can realize similar features in the same regions at the present day.

Each " canon of art," ${ }^{\text {a }}$ in Egypt and in Assyria, was dogmatically enforced (let it be remembered) upon principles entirely different: the former, or anterior, being primitive, and dependent rather upon its relations to graphical expression, more

Fig. 18.


Fig. 19.
 rigidly approximates to the ante-monumental age of "picture-writing." In the latter, we behold a developed, and consequently more florid, style of art; which, if nothing else existed to demonstrate the truth
of this inherent law of artistic progression, would of itself classify monumental Assyria as, chronologically, a succedaneum of Egypt; and vindicate De Longpérier's conclusions of Assyrian modernness, no less than Rawlinson's acknowledgments of Egyptian antiquity.s

The combined action of art and of the prevalence, in and around Mesopotamia, of a preponderating type which approaches the beauideal of Semitic humanity, may be seen by comparing the captives of Assyrian triumphs with the common soldiery of Ninevite armies. Thus, this Syrian (Fig. 20), with his leathern scull-cap, whom a pass-

age in Herodotus identifies with the people "Milyæ," ${ }^{98}$ or else of adjacent Cilicia, could not otherwise be distinguished from common Assyrian spearmen (Fig. 21) attacking a stronghold which, if not in Samaria, belongs to the same mountainous region. Both drawings are from Khorsabad, and the expeditions of Sargan, late in the eighth century в. c.

But it is in the likenesses of the patricians and of royalty wherein, partly owing to more pains-taking treatment by artists, and partly to a higher caste of race, that the pure Assyrian type becomes vigorously " scolpito."

Sargan's minister, (Fig. 22) probably his Vizeer, displays the same noble blood as the King (Fig. 23) himself.s.

Above all the portraits of Ninevite sovereigns discovered, that of Sargan is the most interesting; 1st, because it was the first royal likeness unearthed from Khorsabad by Botta; ${ }^{200}$ 2ndly, because it was the first whose cuneatic legends were ascribed to the besieger of Ashdod by a most felicitous guess of Löwenstern; ${ }^{101}$ and 3dly, because it was the first identified of those sublime sculptures that, rescued from perdition by French munificence, arrived in Europe,

Fia. 22.


Thit Vigere.

and once again tower majestically in the Louvre Museum, ${ }^{120}$ after some 2515 years of oblivion.

We present a rough tracing (Fig. 24) of Borts's earliest lithographs, wherein the head-dress is tinted red, like the original bas-relief.
It was established, twenty years ago, by Rosbluinc, that, in Egyptian art, the andro-sphinxes (human head on lion's body, symbolical of royalty,) always bear the likenesses of the kings or queens in whose reign they were chiselled. Thus, were the features of the Great Sphinx at the pyramids of Memphis adequately preserved, we should probably behold the lost portrait of AAHMES, founder of the XVIIth dynasty, in the seventeenth century b. c.; to whom,. under the Greek form of Amasis, a tradition in Pliny's timestillattributed this colossus. ${ }^{100}$ The symbol "sphinx," by the Greeks 17


Sarann, ( Iagiah, mx. 1). B. C. 710 to 668.
reputed to be female, and by Wirkinson to be always male in Egypt, has the body of a lion when (e.g. in the splendid granite Sphinx of Ramses at the Louvre, it typifies the king; or of a lioness, (as in Maut-hem-wa's at Turin,) when the queen. Another rule of Egyptian art is, that the human faces of Divinities wear the portrait of the reigning monarch. Now, in Assyrian scalpture - an offshoot of Nilotic art-the same rules hold good. Those gigantic human-headed bulls, and those superb winged-gods, of scenes in which human-faced

Fig. 25.


Sargox. deities are introduced, assume the portraits of the sovereigns in whose age they were carved: truths easily verified by comparison of the folio plates of Flandin or of Layard. In consequence, regretting the necessity for reduction of size, we submit, from one of the wingedbulls at Paris ${ }^{10}$ the likeness (Fig. 25) of him whose cuneatic legend reads:-"SARGON, great king, puissant king, king of the kings of the land of Assour"-Ashur, or Assyria - of whom Isatar relates - "In the year that Tartan came unto Ashdod (when Sargon, the king of Assyria, sent him,) and fought against

Fia. 26. ${ }^{105}$


Fia. 27.


SEMMAOTERTB - B. ©. 700.

Ashdod, and took it;" events of the seventh century before Christ.

To complete the series, we add a royal head, (Fig. 26) of the same times, but name unknown to us, surmounting a vinged-lion; its only peculiarity being the ponderous nose.

Not less curiously valuable, whether in its historical, biblical, or ethnographic associations, is the portrait (Fig. 27,) of Sargan's son"Sennacherib, on his throne before Lachish." ${ }^{106}$

We have already beheld (Fig. 14) his Jewish captives. Mr. LaYard unfolds, through translation of this king's cuneiform inscriptions, points of the grandest scriptural interest ${ }^{1 m}$-"Hezekiah, king of Judah," says the Assyrian king, "who had not submitted to my authority, fortysix of his principal cities, and fortresses and villages depending upon them, of which I took no account, I captured, and carried away their spoil. I shut up (?) himself within Jerusalem, his capital city."

We commenced at the seventh, and now advance into the eighth century, в. с.

A "Bas-relief, (Fig. 28) representing Pul, or Tiglate-Pileser," from Nimroud, ${ }^{106}$ places us about the year в.c. 750 .

Here the same high type is preserved in the features of the king, his bearded chariot-driver, and his depilated eunuch: while inscriptions that contain the name of "Menahem, king of Israel," tributary to Assyria, ${ }^{100}$ evince the intimate relations already existing between that emigrant branch of the Abrahamidxe domiciliated in Judæa, and the indigenous stem still flourishing in Chaldæa, whence they had issued about 1000 years before. The same type is carried back to the tenth century в. c., by this copy (Fig. 29) of the statue of Sardanapalus I. ${ }^{10}$; whose era falls about 930 years before ours.
"On the breast is an inscription nearly in these words:-after the names and titles of the king, 'The conqueror from the upper passage of the Tigris to Lebanon and the Great Sea, who all countries, from

Fig. 28.


Fig. 29.

the rising of the sun to the going down thereof, has reduced under his .authority.' The statue was, therefore, probably raised after his return from the campaign in Syris" - where, the Tyrians, Sidonians, Arvadites, and others, acknowledged his suzerainty.

An epoch has now been reached that is more ancient than the registry of Hebrew annals, ${ }^{\text {m1 }}$ by a century, perhaps; and hence they cease to throw light, for times anterior to Sосммон, upon nationalities outaide the topographical boundaries of Paleatine. But, where Judean chronicles are silent, when cuneiform records falter, the hierog!yphics of Egypt supply abundance of ethnological information, and enable us to demonstrate the perpetual indelibility of this (let us call it, for mere convenience alke,) Chaldaic type. Already, "half-breeds," between Nilotic and Euphratic populations, must baye been numerous. Palestine was tbe neutral-ground of contact; and Solomon's wedding with the "daughter of Pharaoh" shows that Abrahamic royalty only followed a matrimonial practice familiar to the Israelites since that patriarch's first visit to Eigypt; which duly received Mosaic asnction in the law-"Abhor not the MiTsRI (Egyptian):" ${ }^{1 u}$ benignantly providing for its prolific consequences by adding the clause - "The children that are born of them, at the third generation, aball enter into the assembly of IeHOuar."

Mr. Birch was the firat to eatahlish, five years ago, ${ }^{\text {w }}$ the intimate connexions between Egypt and Assyria, in the tenth centary b. c.; the very age of Solomon's marriage with an Rgyptian princess, and of the punishment inflicted, about 971-'S, by Shrshowk upon Jerufalem, "in the fifth year of Rehohoam." The kings of Egypt during the XXUX or Bubastite dynasty, were proved, by this erudite palmographer,to bear not Egyptian, but Aseyrian names: thus, Sarebonk, Shishak, was assimilated to the "Sesscea" of Babylon; Osorkon to Serak, Saracus ; the son of Osorkon II. was shown to be a NIM-ROT, Nimrod ; and the appellative Takelloth, TKLT, of the hieroglyphice, to contain DiGLaTk, which is the same river Tignis that is embodied in the royal Asbyrian name of Tralath-Pileser.

Here is a mnte witness of those events and those times - GOT-THOTH-Amek (Fig. 30), "Chief of the Artificers," at Thebes, "' who died, aceording to inscriptions on his cerements, in the "Year X" of tbe reign of King Osorkon III. ; that is, he was alive in the year 900 B. c.! His complete mummy lies in the Anatomical Museum of the Univeraity of Louisiana, New Orleans; and we shall describe it in the proper place: our object at present being merely to indicate an utow of the etbnological abundance that Egypt and Asayris suppiy. And the reader will realize the harmony of these archreological rcsearches, when le heholds the portrait of the king (Fig. 31) in

Fig. 80.


Fig. 81.

whose reign this mummy was made. Lermans published a date of the IXth, and Bussen one of this Pharaoh's XIth regnal year. The legend on the mummy has added another of his Xth.

Several coincidences have been ingeniously put together by Mr. Sharpe; ${ }^{116}$ but, while we refer to Layard's Second Expedition, ${ }^{117}$ for realizations of the almost-prophetic science of Birch, the latter's opportune discovery of the relationship of Ramses XIV., by marriage, to the daughter of the Semitic "King of Bashan," ${ }^{118}$ is merely noted here, because it will be elucidated under the chapter on Egypt. In the following Asiatic prisoners, recorded among the foreign conquests of Amunoph III., at Soleb, ${ }^{19}$ there is no difficulty of recognizing -

Fig. 82.


1. Pa-ta-na, Padan-Aram; 2. A-su-ru, Ashur, Assyria; 3. Ka-ru-ka-mishi, Carchemish. The names of Saenkar, Shinar, and Naharaina, in Hebrew Naharaim, the "two rivers," or Mesopotamia,
hieroglyphed in the same Pharaoh's reign, have long been familiar to Egyptologists; and thus Assyrian data and connexions with the Nile are positively carried back to the XVIIth dynasty, and the sixteenth century $\mathbf{B . c}$.

But although, amid the ruins of Babylon itself, nothing has been yet diaclosed of an earlier date than Nebociadnrzzar, b. c. 604 ; and no genealogical list, not to say contemporaneous monument, older than в. c. $1250,{ }^{120}$ at Nineveh; hieroglyphics of an ancestor of AmoNopi ШII., viz., Thotmes ПI., prove the existence of hoth Babylon and Nineveh, as tributaries to the Pharaohs, at least one generation earlier, or about 1600 years b. c. ${ }^{121}$ This king, in an inscription more recently translated by Birch, is said to have "erected his tablet in Naharaina (Mesopotamia), for the extension of the frontiers of Kami (Egypt)." ${ }^{1 z}$

The sixteenth century в. c., according to Lepsius's system of chronology, touches the advent of Abraham and later sojourn of his grandson Jacob's children in the land of Goshen. Relations of war, commerce, and intermarriage, between the people of the Nile and those from the Tigris and Euphrates, in these times, were incessant. Semitic elements (as we shall see in the gallery of royal Egyptian portraits furtber on) flowed from Asia into Africs in unceasing streams. The
 Queens of Egypt, especially, betray the commingling of the Chaldaic type with that indigenous to the lower valley of the Nile; and, although we shall resume these evidences, the reader will recognize the blending of both types in tbe lineaments of Queen Aahmbs-Nefrrari (Fig. 33), wife of Amunoph I., son of tbe founder of the XVШth dynasty, about 1671 b.c. Hers is the most ancient of regal feminine likenesses identified; ${ }^{121}$ and of it Morton wrote, "Perhaps the most Hebres portrait on the monuments is that of Aahmes-Nofre-Ari." ${ }^{12 a}$

Having thus traced hack the Chaldaic type into Egypt before the arrival of Abraham, first historical ancestor of the Jews, we beve proved the perpetuity of its existence, through Egyptian and Assyrian records, during 8500 years of time, down to our day. But the Jewish type of man must bave existed in Chaldea for an indefinite time before Ahraham. After all, he was merely one emigrant; and his ancestral stock, at $1500 \mathrm{~B} . \mathrm{c}$. , must have armounted to an immenso popuiation. We hold, without hesitation, that 2000 years befors

Abraham, there had already been intermarriages between the Chaldaic and the Egyptian apecies. No ethnographer but will perceive, with us, the Jewish cross upon Egyptians of the IVth Memphite dynasty, 3500 years в. c., say about 5400 years ago: and such amalgamations must then have been far more ancient. Examine the following (Figs. 34, 35): we shall revert to them by-and-by.

Fia. 84. ${ }^{\text {23 }}$


We shall yet be able to aketch out the durability of the cognate Arabian race 2000 years earlier than Ishmael, son of Abrahnm, when we deal with Egyptian primitive relations with Asia; and as, for thirty-five centuries (not to say fifty-five, when the Chaldaic blood first appears), Jews and Arabs have been monumentally coexistent and distinct in type, therefore the demonstration of the existence of the latter people 5500 years ago will naturally imply the simultaneous presence of the former in their Mesopotamian birth-place; although neither from Assyrian nor Hebrew records can we produce annals to that effect - simply because auch chronicles, if any were kept, have not reached our modern day.
Before quitting, for the present, Semitish immigrations into Africa, we may allude to early Phænician colonization of Barbary, as another prolific souree of comminglings between Chaldaic and Berber, or Atalantic, types. These must have preceded, by centuries, the foundation of Carthage, estimated at в. c. 878; and, in those days (the camel not having been introduced into Africa before the first or second century p. c.), the Sahara desert being absolutely impassable, the Atalantide of the Barbary coast beld no communication with Negro races of inland Africa. The subject is discused in Part II. of this volume.

The illiterate advocates of a pseudo-negrophilism, more ruinous to the Africans of the United States than the condition of eervitude in
which they thrive, multiply, and are happy, have actually claimed St. Augustine, Eratosthenes, Juba, Hannibal, and other great men, as historical vouchers for the perfectibility of the Negro race, because born in Africa! It might hence be argued that " birth in a stable makes a man a horse." We submit the following portraits.

Fia. 86.


Eratosthenes ${ }^{128}$ (Fig. 36), born at the Greek colony of Cyrene, on the coast of Barbary, about 276 в. с. What more perfect sample of the Greek historical type could be desired?

Hannibal ${ }^{127}$ (Fig. 37), son of Hamilear Barcas, born at Carthage, about b. c. 247. The highest "Caucasian" type is so strongly marked in his face, that, if his father was a Phœnico-Carthaginian, one would suspect that his mother, as among the Ottomans and Persians of the present day, was an imported white slave, or other female of the purest Japhetic race.
Fie. 87.


Fia. 39.


Fig. 88.


Jubs ${ }^{128}$ (Fig: 38), son of Hiempsal, king of Numidia, ascended the throne about в. c. 50. If not Berber (and we have no means of comparison), the Arab type predominates in his countenance; and that this closely approximated to the true Tyrian, or Phœnician, is evident by comparing it with the features of an ancient citizen of Tyre (Fig. 39), figured at Thebes, in the reign
of Ramses IIL, of the XXth dynasty, daring the thirteenth century B. C. ${ }^{\text {T }}$

Abundant illustrations of the permamence of type, in other varieties of Semitish races, will be given in due conrse; but, on our road to Persia, let us indicate a syrian form, in this mountaineer of Lebanon ${ }^{10}$ (Fig. 40), from the conquests of the same Ramses; and contrast it with a genvine Cushite Arab, or Himyarite ${ }^{\text {U1 }}$ (Fig. 41), who appears in the tomb of Seti-Meneptha L, about 1400 years в. c.


As we crose through Chaldex, we again encounter (Fig. 42) the true Jewish type in the land of its origin. A full-length figure of this individual will be given in a succeeding Chapter; and it is the more carions, inesmach as we behold in its desigu an Egyptian artist's conception of a Chaldee during the fifteenth century B. $C$.; that is, about 500 years before any cuneiform monuments yet found, and 600 years before any Jewish recorde, now known, were inscribed or written.

Persian monumental ethnogre-

Fio. 12.
 phy, (like the native, the Hebrew, and the Greek chronicles of that Iranian land,) can but commence with Cyrus;-that mighty name, which, until recent hieroglyphical and cuneatic discoveries threw open the portals of ages anterior, marked the grand terminus of historical knowledge concerning Oriental events and nations. We accompany the following series with Rawlingon's tranalation of the Persepolitan arrow-headed legends.

Fig. 48.


Bas-Rrlify of Cybug. 13


Bas-Rxlisy of Darius. ${ }^{336}$

Fig. 45.

Bas-Religy of Xebxes. ${ }^{138}$
"I am Cyrus, the King; the Achæmenian." 132
Such is the simple epitaph of sterling greatness, on the ruined pilasters of Murghab, or Parsagadæ, adja-- cent to the tomb of Cyrus : built about B. c. 528.

The abraded condition of the face (Fig. 43) enables us merely to distinguish that high-class type, which the grandson of a Mede (Astyages) and a $L y$ dian (Mandane, sister of Cresus), and the son of a Persian, would naturally present.

Singularly enough, the effigy wears an Egyptian (Kneph-Osiris) head-dress; which confirmsLetronne's argument of the very intimate relations between Persia and Egypt, before the conquest by Cambyses. ${ }^{134}$

> "I am Darius, (Fig. 44) the great King, the King of Kings, the King of Persia, the King of (the dependent) provinces, the son of Hystaspes, the grandson of Arsames, the Achæmenian." ${ }^{135}$

We see Darius in the attitude of uttering that nobleaddress, which stands, inscribed on the vast cuneiform Tablet of Behistion, cut about 482 в. с.
"Xerxes, the great King, the
King of Kings, the son of King
Darius, the Achæmenian." ${ }^{177}$

We are uncertain whether the effigy (Fig. 45) be not that of his sor, Aktaxerxes: but, ethnologically, the point is immaterial; for the Persic type of the line of Achæmenes is rigorously preserved in these sculptures of Persepolis.
"This in the face (Fig. 48) of the (Mardean) serrant of Ormuxd, of the god Sapop, Hng of the lings of the Irenians and of the non-Iranians, of the race of the gods; an of the (Mazdean) serrant of Ormaxd Ardenkir, king of the kings of Iran, of the race of the gode; grandoon of the god Babet, king." ${ }^{19}$

Fig. 46.


Boyax.


Sapor. 10

This Greek version of the trilinguar inseription carved upon Shapook's borse at Nakshi-Redjeb, near Persepolis, is tho more precious, because it served to Grotrrbnd, 1802, the same purpose that the triglyphic Rosetta Stone answered to Young, in 1816. The latter became tho finger-post to Crampollion lb Jeung's deciphering of all Egyptian hieroglyphics; just as the former to Rawlinson's of all cuneiform writinge.

Our heads, however, are taken from the bas-relief of the same king Shapoon, Sapor, at Nakshi-Roustam : wbere a Roman auppliant, no less a personage than the captive emperor Valibian, kneels in vain hope of exciting Persisn hamanity. The acene refers to events of about A. D. 260; when, under the Sassanian dynasty, art had wofully declined. The contrast, notwithstanding, between the Pereian and the Roman, is here preserved; and atill more effectively in another tableau ${ }^{141}$ at Chapour.

Among the prisoners of Darivs at Behistin, the nations carved on his rock-hewn sepulchre at Persepolis, and the troops supporting the throne of Xerxis, may be seen many varieties of the Median, Persian, and Chaldaan races; although, in the latter instances, the absence of names prevents identification: but this son of the desert, (Fig. 47) of the age of Sapon, ${ }^{\text {ra }}$ affords a variant, with some Arabian lineaments, that we are inclined to refer to Beloochistin, or the Indian side of the Persian Gulf.

Still nearer to the Indus do we assign the first of two effigies (Figa. 48,49 ) painted in Egypt about 1800 years previously. The second

may even, perhaps, approach the Himalayan range. They are from the "Gpand Procession" of Thotngrs III., in the sixteenth centory B. c., to be elucidated hereinafter.

He (Fig. 48) leads an elephant, which, like that on the Obelisk of Nimroud, ${ }^{10}$ points towards Hindostanic intercourse ; and his features, surmounted by the atraw hat, are peculiarly Hindoo.
The other (Fig. 49) carries an elephant's tooth, at the same time that he leads a bear-by Morton denominsted an Urous Labiatus and a certain Arian cast of countenance favors the vague geographical attribution we adopt for him.

Finally, to extablish the diversity of
 Asiatic types, in every age parallel with the Jewish, here is a Tartar (Fig. 50) from the conquesta of Ramsks 1.1 ., ${ }^{14}$ painted at Aboosimbel in the fourteenth century b. c. His face is unnistakeable; as are those of his aseociates, some of whom wear their hair long, in the same tablean.

The queation of the "Chincse" (unknown to any nation west of the Euphrates prior to the Christian era, has been setthed in our Supplement; and it suffices here to note that, tbe custom
of shaven heads, with scalp-lock, is essentially Tartar. The Chinese always wore their hair long until compelled to shave their heade by the present dynasty of Mantchou-Tartars; ${ }^{\text {ne }}$ aud the Turkish branch of those hordes introduced this usage in the modern Levent.

Reader ! we have followed the Chaldaic type from Mesopotamia to Memphis; and thence, via Carthage, through Paleatine, Syria, Arabia, Assyria, and Persia, until it disappeared; when, looking towards the Caspian and the Indus, we descried the cradle-lands of Arian, Tartar, and Hindoo races. May we not now consider permanence of type among JEWS, for more than 8000 years, to he a matter proved? and with it, the simultaneous eristence in the same countries of every variety of type and race visible there now, ever distinct during the same period?

The monuments of Egypt and Assyris, history and the Bible, bave enabled us to ascend to the age of Abraman, first historical progeaitor of the Israelitish line, and demonstrate the indelibility of the Jewish type from his era downwirds. The sculptores of the IVth dynasty have also exhibited the admixture, or engraftment of the same Chaldaic type upon native families of Egypt at a date which is some 2000 years beyond Abrabam's era upwards.

Other analogical proofs will appear in the sequel; but, in the interim, the Jews thembelves are living testimonies that their type bas gurvived every vicissitade; and that it has come down, century by century, from Meaopotamis to Mobile, for at least 6500 years, analtered and, save through blood-alliance with Gentiles, unalterable.

## CHAPTER V.

## THE CAUCASIAN TXPES CABRIED THROUGH EGYPTLAN KONUMENTS.

Is a preceding chapter, portions of the European group, generically styled the "Cancasian," were traced beckwards through historical times. This sketch was followed by a resumé of the Pbysical History of the Jews, whose annals constitute the boundary of written history, by aupplying the most ancient literary link that connects us with remoter monumental periods. We now propose to track this Caucasian type onwards, through the stone records of Egypt, up to the earliest of such documents extant.

The incipient history of the Israelites is indisoolubly woven with that of Egypt; nor could we separate the two if we would. Although the earliest positive synchronism, or ascertained era of contact, between these people, is the year 971 日. 0. ; viz. : the conquegt of Judsen:
ander Rehoboam by Shishak or Sheshonk-neverthelese, there are other periods of intercourse mucb earlier in date, which may be reached approximately: and while, on the one hand, Egyptian monuments, so far as known synchronisms extend, bear teatimony to the historical truth of Jewish records posterior to Solomon, these, on the other, furnisb evidence in favor of the reliability of the hieroglyphics. The histories of Abraham, of Joeeph, of Jacob and his descendents, and of Moses, all bear witnese to the antiquity, grandeur, and high civilization attained by Egypt's Old Empire before the birth of the first Hebrew patriarch: but when we compare the genealogical and chronological systems of the two people, as well as their respective phyaical types, there is really nothing in common hetween them. Ahrabam, according to the Rabbinical account, is but the tenth in deacent from Noah; bis birth occarring 292 yeans after the Deluge: but, substituting the more critical computation of Lepsius, Abraham must have lived in the time of Ampnopi III, Memnon, of the XVIIIth dynasty, about 1500 уеais в. c. Now, the epoch of Menke, the first Pharaoh of Egypt, is placed by the same savant at 8898 b. c., or some 2400 years before Abraham.

The epoch of Abrabam bias ordinarily, indeed, been computed by Biblical commentators, a few centuries farther bsek than the date assigned to him by Lepsius; but we are inclined to adopt the estimate of this superior autbority, for the following simple reasons:There are but five generations - viz. : Isaac, Jacob, Levi, Kohath, Ambam - between Abraham and Moses; and the era of the latter is now approximately fixed in the fourteenth century b. c. By adding to the latter age - assuming the Exodus, when Moses was 80 years old, at в. c. $1822^{\text {ns }}$-the average duration of life for five generations, the time of Abraham falls about 1500 в.c. It may be objected that people in olden times were gitted with a longevity immeasurably greater thau our modern generations; but this presumption is contradicted by a thoroughly-established fact, that the Egyptians, whose ages are recorded on the hieroglyphical tombstones for twenty centuries hefore Abraham's nativity, and whose mummied crania, of generations long anterior to this patriarch, abound, lived no longer than people do now. Another proof, likewise, that numerical errore have always existed in the Book of Genesis, is the fact, that the manuscript Texts differ irreconcilably in respect to the ages of the Patriarchs; while these extraordinary ages are rendered nugatory hy the physiological laws governing hyman life. If farther proof he wanted, it may oe gathered from the story of Abraham and Sarah. Thougb contemporary with every one of her ancestors back to Noah himself, (all of whom, according to Genesis, ${ }^{177}$ lived from 205 to 600 years), yet

Sarah, when told, in her ninetieth year, that she should hear a child, laughed twice, having never heard of such an occurrence! But, even admitting such superhuman longevities for the Patriarchs, that does not mend the difficulty; for, after all, there are but ten generations between Abraham and Noab, to set off agninst no less tban geventeen dynasties of Egypt, each of which included many kings, whose unitcd ages exceed 2000 years.

The following is the popular view of the genealogy of Abraham : the scientific results of Hebraical inquiry into which are discussed in Part 111. of our work.

1. Shem.
2. Aphaxad.
3. Salah.
4. Eber.
5. Serug.
6. Nabor.

Now, as we have atated, Ahraham was not only contemporary with this ancestry, but, according to the Jewish system, 58 years old wben Noah himself died; and yet, when he visits Egypt, he meets with no acquaintances nor kindred there; but, on the contrary, he finds $n$ great empire, composed of millions of strange people; and beholds standing around him pyramids and temples, erected by this more ancient and distinct race - with records, hieroglyphical and hieratic, written in a language to him foreign, stretching back more than 2000 years before his birth. The reasons, then, are obvious, for passing over that part of Egyptian history subsequent to B. c. 1500 , and for commencing our analysis of the monuments with those of the XVIIth dynasty, (of Lepsius - XVILth, of Roselhini,) wbich was contemporary with Abraham. Although Jewish chronicles, as they have reached us, beyond this Abrahamic point are all confusion, it will be seen that Egyptian monuments afford vast materials, hearing upon some Types of Mankind, in Asia and Africa, whose epoch antedates, by twenty centuries, that of the Father of the Abrahamida.

It is now known to every educated reader that the Egyptians from the very earliest times of which vestiges remain, viz., tbe $\Pi d$ and IVth dynasties, were in the habit of decorating their temples, roynd and private tombs, \&c., with paintings and sculptures of an bistorical cbaracter; and that a voluminous, though interrupted, series of such hieroglyphed monuments and papyri is preserved to tbe present day. These sculptures and paintings not only yield us innumerable portraits of the Egyptians themselves, but also of an infinitude of foreign people, with wbom tbey held intercourso througb wars or commerce. They have portrayed their allies, their enemies, their captives, servants, and slaves; and we possess, therefore, thus faitbfully delineated, most if not all the Asiatic and African races known to the Egyptians 3500 years ago - races which are recogazed as identical with those that occupy the same countries at the present day.

We shall commence our illuatrations by a series of royal portraits of the XVIIth and aucceeding dynasties. They are faithfully copied, on a reduced acale, from the magnificent Momumenti of Rosellini. Although reasons will be produced hereinafter for regarding this line of Pharaohs as of mixed Asiatic origin (i. e. not of the pure Egrptian type proper), yet they will serve admirably as a basis whence to continue tracing, upwards, our Caucasian types. Not only are all these heads of bigb Asiatic or Caucasian outline, but several of their features atrongly betray the Abrahamic cross.

When the celebrated Visconti printed, in Italy, his "Greek and Roman Yconography," containing the portraite of the most famous personages of classical antiquity, he lamented the absence of Egyptian portraits; little expecting that, a few years later, Rosellini ${ }^{16}$ should publish a complete gallery of likenesses of Pharaohs and Ptolemies from the monuments of the Nile; still less could either of those great scholars foresee that, ere one generation elapsed, we should possess the portraits of Sennacherib and other Assyrian mouarcha from the palaces of Nineveh !

Mankind have always, and in every country (China, from most ancient times, particularly), taken extreme intereat in knowing the features of those who have been renowned in story. Pliny praises the 700 portraits collected by Vabro. Solomon, or the writer of Wisdom, ${ }^{14+}$ says, " Whom men conld not honor in presence, because they dwelled afar off, they took the counterfeit of his visage, and made an express image of a king whom they honored;" and while to Grecian art we owe the perpetuation of the sublime buata of their worthies back to the fourth century b. c., we can no longer tolerate the illusion, now that we possess the likeness of Prince Mbrift (to be exhibited in due course) who lived about 5300 years ago, that Lisietratus, who flourished in the 114th Olympiad, was either the first portrait-seulptor or moulder. Such sparse remains of Hellenic art as appertain to the sixth century в. c. differ altogether from the perfection of later ages, and betray the stiffless of antiquity. They correspond in style to the old Lycian sculptures, whicb are known derivatives of Assyrian art; and it is sufficient to glance at the effigies of Ninevite kings and uobles, so splendidly illustrated in the folio plates of Botta and of Layard, to be convinced tbat the art of portrait-taking ascends, in Assyria at least, to tbe tenth century b. c.; while, in EgJpt, ita origin precedes the oldest pyramids - because, at the $\Gamma$ Vth dynasty, tbe likenesses of individuals are repeated times out of number in their tombs, as, any oue can verify by opening Lepsius's Denkmäler.

The general exactitude of Egyptian iconograpby being now a matter boyond dispute, we have only to remind the reader, while submitting
the following selections, that, if he makes allowance for want of perspective in antique Egyptian art, wherein the eye is always presented in full, he will find the profiles edmirably truthful. Moreover, he will be strack with the likenesses from father to son in each family group - which is another guarantee of artistic fidelity; at the same time that the infurion of new blood in each dynasty, and the consequent alteration of lineamenta, are apparent to every eye.

## PHABAONIC POETBAITG. 10

Amonophitrs and Thotmrsitrs. - New Empire-XVIIth Theban dynasty - commencing at b. c. 1671 (Lepsius), with Aahmre, Amasis; whose portrait being unknown, we begin with his son's. Our ethnological conceptions are very briefly given under each head, leaving the reader to emend where we may not heve seized the exact definitions.

Fro. 4.


Pia. 46.


Thoticia $L$ (Strikiogly Hellenic) 19

Pra. 45.
Hia wifa.


Ahymb-Nomeding. (Btrong Simitie feataral)


ААдмев.
(Absolntaly Jowith)

Fia. 48.


Thoticia IL
(Blends his isther's with hie mother's fsoes.)
Fio. 60.


Artrope IL
(Unitos Esyption with Hellanic)
Fia. 52.


Maut-Hement.
(Nubian ? Cuthile-Arab?)

Fig. 48.


Fig. bl.


Tнотнг IV.
(Betarns to the old Ryyptian form.)
Fig. 68.


Artiofl IIL Memnors.
(A hybrid, bat not of Negro intermixture)


Tave
(Eyspiain.)

Fig. 85.


Axthofe IV. Bezen-Atem. 151 (Anomelons featarte.)

At the close of the XVIIIth dynasty, and just before the inauguration of the XIXth, intervenes a period of anarchy, technically known to Egyptologists as the "Disk Heresy;" wherein the above extraordinary personage (Fig. 55) plays a not less extraordinary part. He turned the orthodox priests out of the sanctuaries-abolished the polytheistic orisons to Egypt's ancient gods-and introduced during his reign (followed for a short time by successors), the worship of the sun's disk. These events took place in Upper Egjpt, during the fifteenth century $\mathbf{~ e . c . ; ~ o r ~ s o m e ~ t i m e ~ b e f o r e ~ t h e ~ b i r t h ~ o f ~ M o s e s , ~ a c - ~}$ cording to the emended Biblical chronology of Lepsius.

Fia. 56.
Ather narachional timen.

(A lineed descendant trom Thotmes III., whose Somitir anoestars he reproduces)
And the XVIIth Dynasty ends in usurpations.

XIXth Dynasty - New Family - Ramesidrs-about b. c. 1525.

Fig. 57.


Fia. 58.

Ramesu. Ramses $I$. (Greco-Egyptian ?)


SETI-MENEPTHa. 152
(Mother unknown; but the Semitic caste reappears.)


Fig. 61.

(Rntirely Jewish.)


Fig. 62.


Fig. 68.


Notre-ARI.
(Very high-caste lineaments.)

Frg. 64.


Botiakte. (Chiefly Semitic.)

Fig. 65.


Mexertia II. Menephthes. (Lepains's Pharaoh of the Ersodus.156) [Egypto-Semitic.]

Fua. 66.


Uiener. Ramerri. (Semitico-Egyptian.)

And the XIXth dynasty ends about 1800 в. 0 .

We pass over the various portraits of the XXth and XXIst dynasties; because, where identified, the type is the same, except that it is in the females that we perceive the Asiatic caste of race most prominently; a fact of singular ethnographical import. We renew the illustrations at about 971-3 в. c., with the portrait of Shishak, conqueror of "Jerusalem," as recorded at Karnac; and "in the fifth year of Rehoboam," as chronicled by the Hebrew writers.

- XXUd Dynasty - Mankrio's "Bubastites;"

Proved by Mr. Birch to have Assyrian names; but the Pharaonic stock has now become so mised, that it is difficalt to determine whether the Hellenic, the Semitic, or the Egyptian preponderates.

Pra. 67.


Shmatoin I

Fia. 8 .


There are little or no remains of the XXIIId or XXIVth dynesties; but, in order to show that the so-called "Ethiopian" dynasty had no Negro blood in their veins, we subjoin their three portraits. Dr. Morton calls them "Austro-Egyptians;" and we opine that they may be derived from sn Egyptian colony, crossed with Old Beja (Begawee), or perhaps with Cushite-Arsbian blood.

XXVth Dynasty - i. c. 719 to 695.

Fia. 89.


Brabax-Sabaco.
(Merolte ${ }^{\text {I }}$ )

Fra. 70.

shabitox-Seocehur.
(Phereoh Ska. 2 Eings, xili. 4.)

Fia. 71.


It is unnecessary, for ethnological purposes, to continue the series of Egyptian portraits down to the Ptolemies, and ending with Cleopatra (already given, Fig. 8, page 104,) and her son by Julius Casar, Cessarion. The reader can behold the whole of them in Rosellini's magnificent folios. Having presented the roysl likenesses, to serve as evidence of Egyptian artistic accuracy, we shall now investigate the foreign nations with whom the men, whose portraits we have just seen, were acquainted; together with such othera as their ancestors had known during twenty centuries previously.

It will hecome apparent, in a succeeding chapter, that even as far back as the IVth dynasty, в. c. 3500 , the population of Egypt already exhibited ahundant instances of mixed types of African and Asiatic origins; at the eame time that the language then spoken on the Lower Nile, and recorded in the earliest hieroglyphics, also presents evidence of these amslgamations. The series of Royal portraits just submitted not only demonstrates this commingling of races, but shows that Asiatic intruders had, at the foundation of the New Empire, to a great extent, supplanted, in the royal family at least, the indigenous Egyptians. Their foreign type is vividly impressed upon the iconographic monuments. So much do the Pharaonic portraits of the XVIIth, XVIIIth, and XIXth dynastios resemble those of the later Greek and Roman sovereigna, that the eye passes through the long series given by Rosellini without being arrested by any striking contrast between the former and the latter. Although the common people were also greatly mixed, the Egyptian type proper, neverthelees, among them, predominated over the Asistic. Even admitting that the autocthonous Egyptian race was always, down to the Persian conquest, в. c. 525 , the ruling one, yet the royal families of the Nile, as in other countries, hecome modified by marriages with alien races.

We know, through classical history, of numerons alliances between the Ethiopians and Egyptians. Solomon too, an Asiatic, married an Egyptian princess; and we have mentioned other instances of Jewioh predilection for the women, no less than for the "flesh-pots, of Egypt."

Mr. Birch ${ }^{\text {Ls }}$ has recently furnished some quite novel particulars concerning the matrimonial alliance of a Pharaoh of the XXth dynasty (probably Ramses XIV.) with an Asiatic princess of Bukhitana; to whom was given tho title of "Ra-neferu, the king's chief wife." With regard to the exact locality in Asia of this conntry, although it might be Ecbatana in Media, Birch takes it to be the celebrated Bashan mentioned in Deuteronomy (iii. 1, \&c.) This tablet, brought from the temple of Chons at Karnac, in 1844, by M. Prisse, is so intensely curious that we extract two of Birch's translations, adding interlineary explanations:-
 he gata hid eldeat danghter [to the King of Egypt] . . . . In adoring his majeaty, and in promising her to him: ahe being a very beantiful person, his majeaty prized her above all thlngr.'
"Line 6. "Then Fin givon her the sille [ $\dagger$ ] of Re-nefern, the king's ohiof wife, and when his majeaty arrived In Eggpt, the wed mede king's wifo in all resperts.' "

Here, then, is a positive example of the marriage of an Egyptian king with an Asiatic famale, that entirely corroborates the intermixture of races we derived from the physical aspects of the royal portraits. Whether the hieroglyphic Bashten, or Bakhtan, be the Bushan of Palestine or Median Ecbatana, to ethnology the fact is the same; and probshilities favor, in either case, the lady's Semitish extraction. It is with regret that we cannot digress about the cure wrought upon this lady's sister, "Benteresh" [Hebraice, Daughter of the Resh, chief, or king], who was "possessed by devils;" but her name, being Arabic no lese than Hebrew, settles, philologically, her Semitic lineage.

It may he worthy of paseing notice to the reader, that the conventional color hy which the Egyptians always represented their own males was red, and their own females, yellow; and that, with few exceptions, other races were painted in such different colors as the artist deemed most conformable to their cuticular haee. Why were exceptions made? Was it because the Egyptians, in such instances, had formed marriage connections with some of these races, and ennobled them, therefore, with the red color? Oar Figs 41, 82, and 88, belonging to the fourteenth and fifteenth centaries 日. c., are, in Rosblifini, thus represented in red; showing, perhaps, that they were eateemed as equals, ${ }^{12}$ or that they belonged to cognate Hamitic affliations.
Let us now select for examination a few monumental heads of the various foreign races so faithfully portrayed. It will then be apparent
that the same diversity has ever existed among the so-called Caucasian species, up to the very earliest monuments of above fifty centuries ago.

By way of general introduction to this vast subject, we present one group wherein three distinct types of mankind' are grasped by a fourth.

Fia. 71. bie, 287


Ramses II., in the fourteenth century b. c. (or during the early part of the lifetime of Moses), at the temple of Aboosimbel in Nubia, symbolizes his Asiatic and African conquests in a gorgeously-colored tableau. He, an Egyptian, brandishes a pole-axe over the the heads of Negroes, Nubians (Bardbera), and Asiatics, each painted in their true colors: viz., blạck, brick-dust, and yellow flesh-color; while, above his head, runs the hieroglyphic scroll, "The beneficent living god, guardian of glory, smites the South; puts to flight the East; rules by victory; and drags to his country all the earth, and all foreign lands." Ramses inclusive, here, to begin with, are four types of men - one mixed, two purely African, and one true Asiatic, coexistent at 1400 years в. c., or some 3850 years ago. Their geography extends from the confluence of the Blue and White Niles, beyond the northern limit of the tropical rains, in Negro-land; down the river to Egypt, and thence to the banks of the Euphrates. Precisely the same four types occupy the same countries at the present day.

We next proceed to examine the Asiatic class ; but it should be remembered that we are about to trace retrogreasively, into the very night of antiquity, various races-say, an indefinite point of time, more than 5000 years anterior to our age; and that languages, together with the names of people and of places, have so changed, that it is in these days impossible to identify, in several instances, either the nations or their hahitats, except en masse. Often, the type alone, whicb has never altared, remains to guide us. It were irrational to be surprised at these difficulties. We must ever bear in mind the confusion of races and countries seen among the Hebrew, Greek, and Roman historians, and even in our geographies of much later ages. If classical topography be so often vague, that of the primeval hieroglyphics may well he still more so.

Most of our illustrations are taken from the great works of Rosellini and Lepsius; bat we subjoin references to other hierological commentators.

Fio. 72.


This head (Fig. 72), one of several similar, is taken from the Nabian temple of Aboasimbel, by Lepsius placed in the fourteenth century b. c. Tbey appear on a tableau wherein Ramses II., during the fifth year of his reign, attacks a fortress in Asia, whicb, it is believed, belonged to a tribe of people called the Romenen, ReMeNeN , near the "land of Omar;" ${ }^{1 \infty}$ probably mountaineers of the Tauric range, and, in any case, not remote from Mesopotamia.
The Rometren are a branch of the Lodan-nos, or "Ludim," Lydians; hy which general desiguation are known, on the monuments, divers Asiatics inhabiting Asia-Minor, Syria, Asayria, and adjacent conntries; probably, Rosellini thinks, this side of the Euphrates: but we incline, with Morton, to consider that Fig. 72 "represents ancient Seythians, the easternmost Caucasian races; who, as history informs us, post sessed fair complexions, blue eyes, and reddish hair." Contrasted with the other Asiatics, grouped in Fig. 71, it affords a very distinct type. The lower and most salient of the latter profiles presents, as Morton has duly noted, "a finely-marked Semitic head, in which the forehead, though receding, is remarkahly voluminous and expressive." ${ }^{\text {ise }}$ An additional reason for supposing that Fig. 72 does not beiong to Semitic races on the Enphratea, is the fact that it offers no resemblance to the true Chaldean, or indigenong type, heheld on the royal monuments of Nineveh or Bahylon; but may possibly be recoguized among their prisoners of war or foreign nations.

Fig. 78.


Allowance made for difference between Egyptian and Assyrian art, coupled with the proviso that the Ninevite sculptors were by no means so precise in ethnic iconography as those of Egypt, we reproduce here a head (Fig. 78), from the sculptures of Khorsabad, by way of comparison: noting the identity of the head-dress, which is a leathern cap. (Vide infra, page 128).

West of the Euphrates, more or less of the Jewish type prevailed. The heads, of which Fig. 72 is a specimen, represent a race which, some 1400 years в. c., was distinct from contemporaneous Mesopotamian families. People with yellowish skins, blue eyes, and reddish hair, are certainly not of Semitic extraction; and, judging from the physiognomy of this man and his associates, these were probably cognate Scythian tribes, inasmuch as they do not differ among themselves more than individuals of any Caucasian nation of our day. It is known that Scythic tribes settled in Syria, and even at Scythopolis, in Judæa; nor do we employ the term "Scythian" here in a sense more specific than as distinct from "Semitic" and from "Hamitic" populations.

Osburn figures this head, classing it as one of the Canaanitish "Zuzim;" but we certainly should not regard blue eyes, red hair, eye-brows, and beard, as characteristic of Canaanites, nor of any other Hamitic families situate in this region of country, west of the Euphrates. The same author calls our Asiatic, Fic. 71 bis, a "Moabite of Rabbah," and describes him among the Hittites; but he likewise has classed our Fig. 93 as a Hittite; and we cannot imagine how heads so entirely different could be deemed identical by an ethnologist.

Fia. 74.100


This head (Fig. 74) is taken from the celebrated tomb of SExI-Mr

Fig. 75.


SREPTHA L, of XIXth dynasty, about the fifteenth centary в.c. We have already slluded, when speaking of classifications of races, to this scene, and illustrated it in Fig. 1. The god Horus is represented, conducting sixteen personages, in groups of four; each of which groups represents a distinct division of the homan family; and theee divisions include all the races known to the Egyptians. Onr full length (Fig. 75) is a reduced copy of the same personage; but taken from the Prussian, ${ }^{102}$ whereas the head (Fig. 74) is from the Tuscan work.

A similar scene occurs in the tomb of Ramses IIL of the XXth dynasty, in which the same divisions are kept up; but the individuals selected differ in race from the preceding, though bearing a certain generic resemblance. As before stated, each Egyptian division, like our generic designations - Caucasian, Mongol, Negro, sc., contained many proximate typee.

Although previously published in his colored folio plates by the indefatigable Belzoni, the ethnological importance of this tableau, in the sepulchre of SxTI I., was not perceived ontil Champollion-leJeune visited Thebes in 1829; nor, indeed, to this day, has its quadripartite classification of mankind been adequately appreciated. Some writers have mistaken its import altogether; while none, that we know of, have deduced from it the natural consequence, that Egyptian ethnographers already knew of four types of mankind red, black, white, and yellow - several centuries before the writer of Xth Genesis; who, omitting the black or Negro races altogether, was acquainted with no more than three - "Shem, Ham, and Japheth."

Charopollion, with his consummate acuteness, at once pronounced this scene to represent

[^48]We merely object to the term "Europeans," instead of "white races;" becayse, in the fifteenth century b. c. there was no necessity for travelling out of Asia Minor in quest of white men; nor could the Egyptians, at that time, have possessed much knowledge of Europe.

To our eye, Fig. 74 marks a type of the white races in the fifteenth century b.c. The particular nation to which he belongs is the Rebo of hieroglyphics; probably the Rhibii of the classics.

Figure $76^{10}$ is from another part of the tomb of SETI L, also dating
about 1500 years s.c. This head, in Rosellini's colored plates, presents all the lineaments of a Himyarite Arab, except the blue eye; which, possibly, may be a mistake of the artist. "Himydr" means red, and the Pisan copy is colored red. Upon reference, notwithstanding, to the great Proseian work, ${ }^{180}$ wherein, it is to be assumed, the colore of the original paintings are reproduced with greater accaracy, this face is of a light brown complexion, with black eyes and beard. While, perhaps, it is not possible (considering the numerous transfers of copies be tween ancient originals in Egypt and their multiplied reproductions in modern plates,) always to avoid discrepancies, it will be remembered that the erimson or searlet tints, adopted by the

Fia. 78.


Egyptians for their own males, is purely conventional-that is, being impossible in real nature - so that, whether the skin be colored red or brown, the osteological structure of the festures remains the same; and these are genuine ${ }^{\circ} \mathrm{Arab}$.

Morton remerks, in his MS. letter:-

[^49]As such, his effigy furnishes another antique type of man.
This head (Fig. 77) (vide oupra page 108, fig. 9,) has been already compared with the Tochari of Strabo and of the Ninevite seculptures. There is nothing to favor $\mathrm{O}-$ burn's theory, that this man and his maritime associates were Philitines; nor to oppose Morton's, that they exhibit Celtic features. We present it, without comment, as another evidence of the ancient diversity of "Caucasian types:" and with an indication of the incompatibility of this man's features with any tongue not a congener of

Fig. 77.
 that class bearing the name of "Indo-European." He cannot, therefore, be a Philistine.

From the prisoners of Ramisk ШШ., of the XXth dynasty, thirteenth century b. c., we take Fig. 78: sculptured on the base of his pavilion at Medeenet-Haboo. ${ }^{184} \quad A$ fracture in the wall has ohliterated the hieroglyphics, so that there is no name for him; but adjacent to him are prisoners of the Tokkari or Tochari. He may be a mountaineer

Fia. 78.


Aboight Abiatio.

Fra. 79.


Modien Kubd.
of the Taurus chain; because he bears a strong resemblance to modern Kurdish families; seen by comparing this profile with the head of a Kurd (Fig. 79), from the work of Hamilion Smith. To our minds, here is a strong example of permanence of type through 3000 years; whilst the name "Kurdah," Kurds, is read in ancient cuneiform, by Dr Saulcy, upon Assyrian inscriptions.

Asiatic conquests of Ramses II. yield us Fig. 80; within the fourteenth century b. c., preserved at Bèyteel-Walee. ${ }^{16}$ Mr. Birch's detailed account of this important historical document is accompanied by colored drawings, in which the victories of that monarch over various Asiatic and African races are represented with amazing truthfulness and spirit. The head itself possesses a Semitic caste, blended, perhaps, with Arian elements.

Fig. 80.


Another captive (Fig. 81) from the Asiatic conquests of Ramses III.
at Medeenet-Haboo. ${ }^{108}$ Wilkinson reads the name "Lemanon," identical with Lebanon ; which is probable, inasmach as Birch agrees; whilst Osburn, by reading Hermonites, fixes their locality at Mount Hermon, anti-Libanus, in the northeast of Palestine. This characteristic specimen is essentially Semitic, of the Syrian form.

Fig. 82 belongs to the "Grand Procession" of the age of Thotmbs III., of the XVIIth dynasty, 1600 e. c. ${ }^{277}$ No head in our whole catalogue has, perhaps, caused as much
 archeological debate; nor is our knowledge of his race and country as yet aatisfactory.

Rosellini figures this head without comment. Champollion Figean copies it, but his explanations lead to no tangible result. Hoskins has beautifully colored the whole file (sixteen persons in number) of these tributary people, regarding them as natives of Meroe, in Ethiopia; but subsequent researches, by Lepeius and others, render such estimate of Meroite antiquity radically wrong. We now know that, in the time of Thotmes III., the only civilized points in Nubia were those occupied by Egyptian garrisons. The Meroë of Greek annalists did not then exist.

Wilkinson accurately designs the whole scene, but without colors; thereby rendering it less clear, in an anthropological point of view; but his hieroglyphics are more exact, and he ohserves:-"The people, Kufa (which is their name), appear to have inhabited a part of Asia, lying considerably to the north of the latitude of Palestine; and their long hair, rich dresses, and sandals of the most varied form and color, render them remarkable among the nationa represented in Egyptian scalpture." Birch calls them "the people of Kaf or Kfou, an Asiatic race;" placing them near Mesopotamia. Prisse denominates them, "le peuple de Koufa (race Asistique, peinte en rouge)."

From the foregoing we may conclude - 1st, that these Koufa were Asialics; 2d, that they resided near Mesopotamia; 3d, that, as they are painted red on the monuments, they presented certain affinities with the Egyptians, confirmed by the physiological characteristics of tbe latter race observed by Morton-"shortness of the lower jaw and chin;" and 4th, that, if they be Cushites, they are of the Hamitic stem. They are probably of the KUSh-ite families of Arabia, coguate to the Egyptians (perhaps allied hy royal marriages), who in consequence honored them with the red color. Inasmuch as they bring a tribute
of golden vessels, they may have had access to the Arabian Ophir ; and as they carty elephants' teeth, they bad communication with the Indies, or witb Africa. Jadging from their portraits, they certainly belonged not to any of the Abrahamic or Chaldæes tribes. They bear, furthermore, considerable resemblance to those primeval heads we shall exhibit in a succeeding cbapter as illustrative of the type of the founders of the Egyptian empire; and slightly also to the later Egyptian type ( $R o t$ ), as represented by Thehan artists in their quadruple classification of races. These Koufa may poseibly have been the descendanta of an Egyptian colony, near the Persian Gulf: like that of Colchis, if we can trust Herodotus, in Asia Minor.

Pra. 8.


This figure is from the conquests of Seti-Meneptha I., fifteenth centary B.c., at the temple of Karnac. ${ }^{\text {(*) }}$ The people come under the generic class of White races; and their tribe is called Tohen, by Rosellini. The same head, in one of the tombs, appears as the type of White races in the quadrupartite division of which we have already spoken. Birch calls them Tohen, Tahno, or Ten-hno "evidently belonging to the white blood, or Japhetic family of mankind." Morton, in his MS. letter, writes, "thoy present Pelasgic features; but the hlue eye, reddish hair, and harsh expression, are not unlike the Scythian race." The Egyptians seem to have entertained towards them an excess of hatred, and to have slaughtered them with more fury than any other people. But we leave their exact race and country an open question, although their Caucasian features cannot be mistaken.

Fia. 84


We have compared this (Fig. 84) and the next (Fig. 85) with the Jewish type (vide supta, p. 140). Rosellini gives no explanations. Supposed, hy Champollion, to be Lydiant - their name reading $L_{N}$ dannt, or Rot-n-no. This head belongs to the same Grand Procession of Thotmes III., so effectively colored in Hoskins; but we have copied Rosellini's outline, as more correct. ${ }^{1 \oplus}$ Hoskins again perceives "white slaves" of the king of his Ethiopia! Oshurn terms them Arvadites; but Birch, refuting both
opinions, puts these people down as Cappadocians, or Leuco-Syrians; which seems more rational, did not an elephant's tooth suggest some geographical obstacle. The man leads an animal-disputed, whether it is a bear or lion, the drawing being so very defective. He alao carries an elephant's tusk. Morton figures this head as Indo-Semitic, or Indo-Persian; and all attending circumstances assign him a habitation between Persia and the Upper Indus.


Another from the same scene as the preceding figure. ${ }^{\text {tro }}$ He wears a light dress and straw hat, and leads an elephant: conditions indicative of a southern climate. Morton observes - "This is a yet more striking Hindoo, in whom the dark skin, black eye, delicate features, and fine facial angle, are all admirably marked. The presence of the elephant assists us in designating the national stock, while the straw hat sende us to the Ganges"-or, much ncarer, to the Indus?
Peculiar interest attaches to hoth of the ahove effigies; the latter of which enables us to carry the existence of a Hindoo national type back to the sixtecnth century b. c. Although no written Hindostanic monuments are extant of an age coetaneous with even the sixth centary prior to our era, native traditions, zoological analogies, and admissions of the more sceptical Indologists, justify our considering the Hindoos to have inhahited their vast peninsula as early as the Egyptians did the shores of their Nile, or any other type of men ita original centre of creation, whether in Asia, Africa, Europe, America, or Oceanica.

We now come to that Egyptian tablean the most frequently alluded to. and whicb has prompted much nonsensical, if pious, discussion.

Pia. 86.
 The head (Fig. 86) is one of the "Brickmakers," from the tomb of an architect - " Prefect of the country, Intendant of the great halitations, Rossherb" - of the time of Thotmes III., XVIIth dynasty, sixteenth century в. c. ${ }^{17}$ We copy from Rosellini, who thought them Taraelites; but, according to the chronology of Lepsins, they antedate Jacob; though they may be a cognate race - perhaps some of his ancestry. Wilkinson honestly observes:-

[^50] 21
to diacover other forcign eaptives cocupiad in the same manner, overlooked by aimilar 'tugkmasters,' and performing the very same labors as the Laraelites described in the Bible."

The same author again insists -
"They are not, however, Jews, as sotue have erroneonsly supposed, and as $I$ have elsewhere shown."

Notwithstanding the palpable anachronism and contradicting figurative circumstances, certain evangelical theologers have wasted mach crocodilean grief over these unfortunate and oppressed, however apochryphal, Israelites; forgetting, in their exceeding-great-thankfulness over a wondrous "confirmation," to weep for the Egyptian brickmakers, who toil in the same scene.

The following items may assiat the reader in forming an independent opinion:-

1st. The hieroglyphics do not mention the name or country of these hrickmakers.

2d. The scene is not an historical record; but a pictorial illustration of hrick-making, arnong other constructive arts that embellished the tomh of an architect, at Thebes - that is, 500 miles from "Goshen."

3d. The people wear no beards - their little chin-sprouts are but the usual unshaven state of Egyptian lahorers, no less than of peasantry everywhere.

4th. They are 8 Semitic people - possibly, with their heards cat off in Egyptian slavery; but wbether Canamnites, Hehrews, Arabs, Chaldæans, or others, cannot he determined.

5th. There is not the slightest monumental evidence that the Jews (in the manner described by the writers of Genesis and Exodus) were ever in Egypt at all! Their type, however, had existed there, 2000 years before Abraharn's birth.

6th. These brickmakers are not more Jewish, in their lineaments, than Egyptian Fellahe of Lower Egypt at the present day, where tbe Arab cross is strong. Indeed, they greatly resemble the living mixed race, who now make Nilotic bricks, every day, at Cairo, exactly as these brickmakers did 8500 years ago, and think nothing of it.

Finally - if theae brickmakers are claimed to be Iaraelites, we can have no objection, because their effigics will corroborate the permanence of the Jewish type for 8500 years: if they be not, to us they answer just as well-being tacit witnesses of the durability of Semitic features in particular, no less than proofs of one more form of ancient Caucasian types in general.

The next head (Fig. 87), we now submit, is really out of place among our Caucasian group; but, from the man's assoeiations, he may have a position here. We are induced to portray his singular type for another reason: viz., that, being represented in the aame picture with foreign allies, sa well as with native Egyptian soldiers, it serves to
illustrate the correctness of Egyptian outline drawing, and also the minute knowledge their artists had of various types of mankind at that early day. The people of whom this is a sample have been reputed by many to be ancient Chinese. There are much better reasons for believing them to be Tartar tribes; which form the geographical link between Mongols and Cauca-sians-sboriginal consanguinity with either
 excluded.

Morton took this head for Mongolian ; and too hastily adopted ancient Egypto-Chinese connexions, on the faith of certain pseudoantique Chinese "vases;" which, not manufactured prior to A. D. 1100, could not have been found in Theban tombs shut up 2000 years before.

Under the heading of "Alphabctical Origins," our Supplement establishes that the Chinese, before the Christian era, possessed no knowledge whatever of nations whose babitats lay nortb and west of Persia. The splendid tableau from which the above ethnographic record is taken, contains many heads of the same type-some of which are shaven, except the acalp-lock on the crown; while others, thougb adorned with the thin moustacbe, wear the hair long and untouched by scissors. Now, it can be seen, by reference to Pauthier, that the Mantchou-Tartars, in A. D. 1621-'27, forced the Chincse to sbave their heads, and wear the pig-tail. Previously, tbe Chinamen had worn their hair long. This scalp-lock (called Shoosheh, by the Arabs), therefore, is a Tartar castom; and inasmuch as in the reign of Ramses II., fourteenth century в. c., China and Chinese were equally unknown to the Egyptians, Jews, or Assyrians, we must suppose that these fair, oblique-eyed, and scalp-locked enemies of Ramses, were Tartare, or a branch of the great easterly Scythian hordes. ${ }^{1 / 2}$

Osbura repeats this scene, calling the people Sheti, whilst striving to restrict their babitat to Canaan, in which he siganally fails. Birch's more consistent geograply carries them to the Caspian, where Tartars would naturally be found; to which critical induction we may add the recent opinions of Rawlinson, De Baulcy, Hincks, and Liöwenstern, that the Tartar, or "Scytbic," element in cunestic inseriptions, especially of the Achæmeno-Median style, eatablizhes the proximity of Turkisb (call them Tartar or Scytbie, for the terns are still vague) tribes to Persia at a mucb earlier period than ethnologists had heretofore suspected.

As such, this effigy (Fig. 87) exemplifies the remotest Asiatic people
depicted on Pharaonic monuments, in days parallel with Moses, during the fourteenth century в. c.

Ramses II., at Beyt-el-Walee-fourteenth century b. c.-grasps the subjoined foreigner (Fig. 88) by the hair of his head. Considered, by Rosellini, to be typical of the "Tohen," a people of Syria: whereas Morton deemed him a "Himyar-

Fia. 88.
 ite-Arab." ${ }^{133}$ We have naught to oppose; and may add, that his red (Himyar) color affiliates him with the Arabian KUSh-ites.


As the type of Yellow races, (Fig. 89) stands in the tomb of Ramses III., XXth dynasty, about thirteen centuries B. c. ${ }^{174}$ Nothing is certain respecting the history of the people he represents; but Osburn perhaps is right in calling him an ancient Tyrian: everything-features, purple dress, \&c.-harmonizes with this view, adopted by us in a preceding chapter. (Infra, p. 136.)

Fia. 90.


An identical type, possibly from another Phœnician colony, is met with about 150 years earlier. From the Theban tombat Qoornet Murraï, of the time of Amuntuonch (Amenanchut of Birch), we select (Fig. 90) one instance of the many, to illustrate physiological similitudes, ${ }^{175}$ that time has not extinguished, along the present coasts of Palestine, in the fishermen of Sour and Sèyda (Tyre and Sidon), even to this day.

This great Asiatic chief (Fig, 91) is killed, in single combat, by Ramses II.; the colored original heing drawn on a magnificent tableau, at Aboosimbel. ${ }^{\text {178 }}$ Rosellini makes bim one of the Seythian "Tohen," beyond the Euphrates; and Morton deems him "Pelasgic." IIis features depart essentially from the Semitic cast; and the face offers the earliest instance wherein Egyptian art has figured tbe eye closed.


In this instance, as in many others, our copy is reversed; hut euch inadvertencies do not affect ethnographic precision.

Fin. 92.


We detach Fig. 92 from the has-reliefs of Ramses III., XXth dyuasty, at Medeenet Haboo; where he is called "Captive prince of the perverse race of the inimical country of Sheto, living in captivity." ${ }^{17}$ Morton, very naturally, holds him to be a "variety of the Semitic stock;" and Sheto, if read Kheto, signifies a Hittite; using the Biblical term $\mathrm{K} h \mathrm{~T} \mathrm{~T} t$ in its widest acceptation.

$A_{B}$ the type of White rqces, Fig. 93 appears in one of the Thehan tombs; and, name unknown, is conjectured, by Rosellini, to he "an ancient example of the Grecke of Asia Minor, and especially of Ioniars. To atrengthen this conjecture, I recall how among the monuments of Thotmes V. [IV.], and of Meneptha I., mention is made of this people." ${ }^{18}$
The Ionians, Javan, \&c., are sufficiently diseubsed in our Part I., where tbe IUN of Xth Genesis is analyzed; but "Yavan," and the "people of Yavan," as Grecian trihes of the seventh century в. c., occur repeatedly upon the monumente of Nineveh. Morton takes him to be "Pelasgic." In his MS. letter, he adds: -
"This head presents us with the true Hellenic line of nose and forehead; for, although the latter is more receding than we continually see in the Greek heads, it forms an uninterrupted line with the nose. The black hair is in unison with the other traits; but the red tint of the eye [perhaps an error of artist ?] is not so readily accounted for. The facial angle, moreover, in this head, is little short of a right-angle."

Fig. 94.


Fic. 95.


For the sake of comparison, we first give Lepsius's copy of the enlarged head (Fig. 94) of the standard type of Yellow races, from the quadripartite division in Seti's tomb, described in a former place. Beneath it, (Fig. 95 ) is a reduction of one of the same four persons at full length. Opposite, we put Rosellini's copy (Fig. 96), for the express purpose of indicating an error in the Tuscan work which the Prussian has removed: referring to our note ${ }^{179}$ for explanations.

Numerous are the comrades of Fig. 97 in the conquests of Ramses II., at Bèyt-el-Walee, XIXth dynasty, fourteenth centary b. c. Birch considers them tribes of Canaan; because, at Karnac, the

Fia. 96.
 same people are called, in the text, "The fallen of the Shos-8ou, in their elevation on the fortress of Pelou, which is in the land of Kanana." ${ }^{180}$ And the next (Fig. 98) is an individual appertaining to another set of prisoners, from some adjacent district. Osburn figures them as Jebusites; to which we

Fia. 98.

offer no objection; and thus we should behold one of the inhabitants of ante-Judaic Jerusalem, IeBUS or Jebus: before its capture by Joseva, and long prior to the expalsion of the Jebusian from Mount Zion by the prowess of David.


Fia. 100.


Both the head and the full-length figure, here presented, illustrate four personages identical in aIl respects. ${ }^{191}$

They are the type of the Yellow races, in one of the tomhs coeval with Mossic times. Rosellini, who wrote before the Persian and the Ninevite arrow-heads were deciphered, suggested their resemblance to the sculptures of Aseyria and Persepolis. They portray, certainly, strong Chaldæan affinities, cognate with the Hehrew race; and their elegant green dresses, embroidered with skilful taste, show a very polished people. Oshum figures them as Hamathites-citizens of Hamah, hetween Damascus and Aleppo, ever renowned for their heautiful manufactures, brocades, shawls; together with tbose richlycolored silk-and-cotton goods, now dear to Levantine merchants as "Allàgias;" nor does his view militate against ours. ChampollionFigeac gives this effigy, with the conjecture of his hrother that they are Medes, corresponding to Persepolitan relievos. Chaldas seems to be the centre-point of all these authorities; and we have classified, elsewhere, this head among Jewish tribes.

Belonging to the same sculptures of the thirteenth to fifteenth centuries b. c., and located geographically in the same Syrian provinces, we group together six more apecimens of varieties of this all-pervading Semitic type. Representatives of ancient Sidonians, Aradians, and so forth, along the coast of Syria, and on the spurs of Lebanon, each one still lives in thousands of descendants, who now throng the Bazdars of Seyda, Beyroot, Tripoli, Latachia, Antioch and Aleppo. Suhatitate the turhan for the military casque and civic cap; and, in the same localities, still speaking dialects of the same

Semitish tongues, you will recognize in the "Shawam," people of Sham, or Syria (SheMites), -as the Arabs still designate the Damascenes technically, and the Syrians generally-the very men whose ancestral images were chiselled by Diospolitan artists not less than 3200 years agone.


Fig. 102.189


Fia. 108.186


Fia. $105 .{ }^{188}$


Fia. 104. ${ }^{185}$


Fia. 106.187


Here let us pause. Thirty varieties, more orless, of the Caucasian type, solely among ancient foreigners to Egypt, have now heen suhmitted to the reader. They have heen taken, almost at random, from the Monumenti of Rosellini, with occasional reference to the Denkmaler of Lepsius: and their epochas range hetween the thirteenth and the seventeenth centuries B.c.; a period of ahout 400 years, including, moreover, whatever era is assignable to Moses. There is diversity enough among them to satisfy the most exacting, that men, in the same times and countries, were just as distinctly marked as they are now in the Levant, after some 3300 years; and hence, again, it follows that, in the same lands, time has prodaced no change, save through amalgamation ; because, in the streets of Cairo, Jerusalem, Damascus, Beyroot, Aleppo, Antioch, Mosul, and Bagdad, every one of these varieties strikes your vision daily.

Mark, too, that the whole of these diversified Oriental families occapied a very limited geographical area; viz.: from the river Nile eastward to the Tauric range of mountains; at most, to the western borders of the Euxine and Caspian Seas, and across from the Mediterranean to the Persian Gulf - the Indus, perhaps, inclusive. This superficies constitutes but a petty segment of the earth. Neither have we yet looked beyond such narrow horizon, whether for Mongols, Malays, Polynesians, Australians, Americans, Esquimaux; nor for Finnish, Scandinavian, endless European, Uralian, and other races, with the above types necessarily coexistent, although to old Pharaonic ethnograpby utterly unknown! Observe likewise, that, Eggpt deducted, Africa and her multifarious types are yet untouched.

How, we feel now emboldened to ask, have the defenders of the Unity-doctrine met the above facts? The answer is simple. By suppressing every one of them.

Dr. Prichard published the third edition of the $\Pi$ d volume of his Researches into the Phyaical History of Mankind, in 1837, at the vast metropolis of London, surrounded with facilities nnparalleled. He devotes fifty-nine pages to the "Egyptians;" ${ }^{1 \times}$ yet, beyond a passing sneer at Champollion-leJeune, whose stupendous labors were then endorsed by the highest continental scholars - De Sacy, Humboldt, Arago, Bunsen, \&c. - he never quotes a single hierologist! Now-adays, every archæologist knows that three-fourths of those very writers whom Prichard does cite on Egypt bave been consigned to tbe "tomb of the Capulets." Now, in 1837, Rosellini's Plates and Text, comprehending almost every pictorial fact by us brought forward, had been published-in great part, for above four years, commencing in 1832-3. Common enough was the Tuscan work in London, to say naught of Paris, close at hand. How could Prichard ignore the existence almo
of these identical subjects in Crampoluion's folio Monumente d' Egypte 9 But, worse than that, viewing the question merely as one of acientific knowledge and good faith, Prichard continued to publish, volume III in 1841; volume IV. in 1844; and volume V. in 1847. The world seems exhausted to prove his unitary-hypothesis. He never reverts to Egyptian archeology, nor reveals one iots of all these splendid discoveries. Why? Because they flatly contradict him, and the antiquated school of which he was the steel-clad war-horse.

Who forced Prichard, at last, either to accept hieroglyphical discoveries in some of their bearings upon the Natural History of Man, or to become placed, so to say, without the pale of scientific anthropology?

Our countryman, Morton,-a student who, deprived of every facility in Egyptian matters until 1842, printed, in 1844, his "Crania Elgyptiaca, or Observations on Egyptian Ethnography, derived from Anatomy, History, and the Monuments;" and thereby founded the true principle of philosophical inquiry into bnman origins.

Prichard (in justice to his memory let us speak,) acknowledged Morton's work in the handsomest manner, ${ }^{\text {bo }}$ although not in the "Researches." But, how came it that Prichard should have allowed an American savan (cut off hy the Atlantic from all his own onbounded facilities,) to anticipate him? In trath, only because Egyptian archeology had shattered Prichard's unity-doctrine from the weather-vane to its foundations.
Having diaposed thue of tbeir champion, weaker sustainers of "unity" who have pinned their creed on his obstinacy, adding their own blindness to his cecity, may he passed over, without distressing the reader by recapitulation of shallow arguments and unphilosophical crudities. Numbers of their hooks lie on our shelves undusted, because there is not a monumental fact to be colled from the whole of them. Nor shall we do more than allude to the opinions of tbe learned Mure, ${ }^{199}$ or of the erudite, though mystical, Hrary, ${ }^{196}$ who endeavored to confine all these Asiatic wars of the Pharaohs to the valley of the Nile; because, as neither scholar could read a hieroglyphic, they debated upou that which they did not underatand; and, in consequence, uttered views that are now entirely superseded by later Egyptologists, to whose pages we make a point of referning those who may cboose to eriticise the bibliographical ground-work of "Types of Mankind."
But we have not finished with the monuments.
M. Prisse's copy of the heterodox king, Atenra-Bakhan (Bex-enAten), now proved to be Amunopi IV., need not here he repented. Its reduced fac-simile may he consulted (aupra, page 147); while every reference required is thrown into a note: ${ }^{\text {iss }}$ and, inasmuch as one of
the writers (G. R. G.) was present at the temple of Karnac, 1839-40, when the original stone was found, and the design made, we can vouch for the accuracy of Prisse's copy of this unique bas-relief. We mention this, because it differs, though not materially, from the later reproductions of the same portrait in Lepsius's Denkmäler: ${ }^{19}$ a divergence accounted for by the fact that the French original lay at Thebes, whereas the Prussians copied others at Tel-el-Amarna, 200 miles off: nor is it to be expected that ancient Egyptian portraitsculptors could multiply likenesses of a man more uniformly similar among themselves, than can our own artists, or even daguerréotypists, at the present day. In proof of how artists differ, we here

Fig. 107.
1
2
8

present other less faithful copies, followed by Morton. ${ }^{186}$ The cut contains, moreover, an attempted portrait of another king, formerly termed SKAI, whose place, though proved to be nearly coeval with that of Bakhan, was enigmatical until Lepsius discovered that he was an immediate successor of the arch-heretic, and, like him, became effaced from the monuments when Amun's priests regained the upper hand. ${ }^{15}$
"This king, AI, was formerly a private individual, and took his sacerdotal title into his cartouche at a later period. He sppears with his wife in the tombs of Amarna, not unfrequently as a noble and peculiarly-honored officer of king Amunoph IV.; that puritanical sun-worshipper, who changed his name into that of 'Bech-en-Aten'"-i. e. Adorer of the swn's disk.

In Rosellini's copy, ${ }^{187}$ the features of this king AI are atrocious.
Lepsius has since pronounced Bex-en-aten to be Amunoph IV., son
of Amunoph-Memnon. Ethnologically, his strange countenance attests very mixed blood; but nothing of the Negro in either parent. His face is Asiatic, typifying no especial race; but it is one of those accidental deviations from regularity that anatomists are familiar with, especially among mongrel breeds. We have seen in our Pharaonic gallery that Amunoph III. (Fig. 53) himself was not of pure Egyptian stock.

We now take a long and portentous stride in Egyptian history; viz. : from the XVIIth back to the XIIth dynasty, a period obscure for about four centuries. The country during this hiatus seems to have been greatly disturbed by wars, conquests, by Hyksos-migrations of population, and other agitating causes; and hence arises the lack of monuments to guide our investigations. In ethnographical materials, especially, there is almost an entire blank. But with the XIIth dynasty, one of the most effulgent periods of Egyptian history bursts upon us; and we can again, with ample documents, take up our Caucasian type, and pursue it upwards along the stream of time.

According to Lepsius, the XIIth dynasty closed about the year 2124 в. c. If we add to this the summation for the eight kings, given in the Turin Papyrus, of " 213 years, 1 month, and 15 days," ${ }^{1 \infty}$ this dynasty commenced about the year 2337 в. с.; which is only some eleven years after Usher's date for the Deluge, when most good Christians imagine that but eight gdults, four men and four women (with a few children), were in existence! The monuments of this dynasty afford abundant evidence not only of the existence of Egypto-Caucasian races, but of Asiatic nations, as well as of Negroes and other African groups, at the said diluvian era.

Fra. 108.

" 1 'hirty-seven Priooners" of Beni-Hassan.

Fra. 109.


General Nsvotpl: now, Num-hotep.

Let us dispose first of Fig. 110. It is one of three recently published by Lepsius; characterized by red hair, and distinct from No.

108, whose hair is black. We refer to the Denkmäler ${ }^{19}$ for their colored portraits, adding Lepsius's comments below.

The head (Fig. 108) ${ }^{200}$ on the preceding page, from the celebrated tombs of Beni-Hassan, so often alluded to by Egyptologists, represents one of a group of personages, generally known as the "thirty-seven prisoners of Beni-Hassan." The scene has been repeatedly and variously explained, by Champollion, Ro-


Asiatic, from Beni-Hassan. sellini, Wilkinson, Champollion-Figeac, Birch, and Osburn-leaving aside the trashy speculations of mere tourists; for, as usual, there have been printed many extravagant theories as to the country and condition of these "thirty-seven prisoners." They were, indeed, supposed, by orthodox credulity, to represent the visit of Abraham to Egypt, or else the arrival of Jacob and his family. More critical authorities have beheld in them Israelitish wanderers, Ionian Greeks, Hyksos, and what not. But, alas! all Jewish partialities received a deathblow when it was proved, through the discovery of the XIIth dynasty, that this tableau had beeń painted at Beni-Hassan several generations before Abraham's birth! The first rational account, in English, of this scene was put forth by Mr. Birch, in 1847. . He says:-

[^51]This lection he confirms in 1852 -

[^52]Lepsius had described the impressions made upon him, at first sight of this unique series :-
"In these remarks, I am thinking especially of that very remarkable scene, on the grave of Nehera-se-Numastep, which brings before our eyes, in such lively colors, the entrance of Jacob with his family, and would tempt as to identify it with that event, if chronology would allow us, (for Jacob came under the Hyksos [i. e., centaries later]), and if we were not compelled to believe that such family immigrations were by no means of rare oceurrence. These were, however, the forerunners of the Hyksos [and of the Israelites], and doubtless, in many ways, paved the way for them." 203

From the excellent translation of Lepsius's Briefe by Mr. Kenneth B. H. Mackensie, ${ }^{204}$ we extract the following particulars, referring at the same time to the Prussian Denkmaler ${ }^{206}$ for exquisite plates of these splendid sepulchres:-
"It must then have been a prond period for Egypt - that is proved by these mighty Lombs alone. It is interesting, likewise, to trace in the rich represeniations on the wells, Which put before our eyes the high edrance of the peaceful arts, as well as the refined luxury of the great of that period; also the foreboding of that great misfortune which brought Egypt, for seversl centuries, under the rule of its northera enemies. In the representations of the warlike games, whicb fortn a characteristically recurring feature, and take up whole sides in some tombs, which leads to a conclusion of their general use at that period aftermards disappearing, we often find among the red or dark-brown men, of the Egyptian and southern races, very light-colored peopic, who have, for the most part, a totally different costume, and generally red-colored hair on the head and beard, and blue eyes, sometimes appesing alone, sometimes in small divisions. They also appear in the traing of the nobles, and are evidently of northern, probahly of gemitic, origin. We find rictories over the Ethiopians and Negroes on the monuments of those timea, and therefore need not be anrprised at the recurrence of hleck alaves and servants. Of wara against the northern neighbors we lasra nothing; but it seems that the immigration from the northeast was already heginning, and that many foreigners sought an asylum in fertile Egypt in retura for eerrice and other useful employments. . . . I have traced the whole representation, which is ahout eight feet long, and one-and-a-bslf high, and in very well preserved through, as it is only peinted. The Royal Scribe, Nefruhotep, who conducts the company into the presence of the high officer to whom the greve heiangs, is presenting bim a leaf of papyrus. Dpon thia the sirth year of King Sesurtesen II. is mentioned, in which that fumily of thirty-beven persona came to Egypt. Their chief and lord wes named Abshe, they themselves Aama, a national designation, recurring with the light-omplexioned rece, often represented in the royal tombs of the XIXth dynasty, together with three other races, and fortning the four principal divisions of mankind, with which the Egyptians were atquainted. Champolion took them for Greeks when he was in Benihasesa, but he was Dot then eware of the extreme antiquity of the monumenta hefore him. Wilkinson considers them prisoners, but this is confuted hy their appearance with arma and lyree, with Fives, children, donkeys, and Jaggage; I hold them to be an immigrating Hyksos-family, which bega for a reception ihto the favored land, and whose posterity perhaps opened the gates of Egypt to the conquering bribes of their Somitio relations."

The writer (G. R. G.), who had explored all these localities in 1839, with Mr. A. C. Harris, would mention, that immediately ahore Beni-Hassan (at the Speos-Artemidos, overlooked by Wilkinson from 1823 to '34), a defile through the precipitous hills leads from the Nile into the Eastern Desert, and thence trends through the Wadee-elArahah to the Iathmus of Suez: as, indeed, may he perceived in Rossgoorr's map, ${ }^{20}$ hefore us. At the Egyptian mouth of this ravive are remains of walls, \&c., that once hlocked the passage; and, in ancient times, here douhtless was a military post, to prevent nomadic ingress into the cultivated lands without the surveillance of the police. Owing to the intriescies of the limestone ravines in this part of the Eastern Desert, any strangers, hecoming entangled in these intersections, would, in the eud, débouche at this pass, and be at once arrested by the guard. It is thus that, without speenlative notions, we arrive at the conclusion that these "thirty-seven foreigners" (although the artist hus drawn but fifteen - men, women, and children) were merely Arabian wanderers; who, motives unknown, cntered Egypt during the twenty-third century B. c. Natural history, heretofore too fre-
quently left aside by archreologists, not only confirms our view, bat indicates the Peninsula of Mount Sinai, if not as their homestead, at least as the road by which they came. The reason we are ahoat to give estahlishes two things: 18t, the minute accuracy of Egyption draughtsmen in the XIIth dynasty, 4200 years ago; 2dy, the prompt acuity of Prof. Agaseiz, in April, 1853.

At the house of their friend, Mr. A. Stbin, of Mohile, the authors were looking over his copy of the noble Prussian Denkmailer, when Prof. Agassiz, the moment we reached this plate (ubi supra), pointed out the "Capra Siniaca - the goat with semicircular horms, laterally compressed," as the first animal; and the "Antilope Saiga, or gazelle of temperate Western Asia," as the second: animals offered in propitiatory trihute to General Num-hotep, hy Absha, the $H y k$, chicf, of these Mes-segem, foreigners.

Our Fig. 109 presents the likeness of the excellent governor of the province; and the contrast, between their yellow Semitic countenances and bis ruhescent Egyptian face, spares us from fears that consanguinity will be claimed for them.

At least two types, then, of Caucasian families - the one Semitish, and the other Egyptian - were distinct from cach other, and coexistent, 4200 years ago. If two, why not more? Why not each one of all the primitive types of humanity now distinguishahle in Asia, Africa, Europe, America, or Oceanica? Science and logic can assign no negative reason: dogmatism, which excludes both, will doubtless continue to worry the hapless "general reader" with many.

We must span, for want of intervening ethnographic monuments, the gulf that separates the XIIth from the VIth dynasty, assuming the latter at about 2800 years b. c. Here again, however, our Caucasian type reappears not only perfectly marked, hut identical with many of the heads we have already beheld among the royal portraits of the XVIIt and succeeding dynaties. Lepsius's precious Denkmäler yields us the following:-

Fia. 111.207


Fig. 112.20


The above heads are from patrician tombs of the VIth dynasty, which, according to Lepsius, commenced about the year 2900 в. c. Concerning the type of these, and numerous other effigies of this epoch, admirably figured by the same author, there can be no dispute; but, the plates being unaccompanied by text, we are unable to supply historical detnils of the personages represented in these early dynasties. Lepsius bimself will ere long elucidate them.

The following two (Figs. 113 and 114) are selected as examples of the same type, in the anterior Vth dynasty, and are Egypto-Caucasians, no less clearly defined. In Fig. 113, the facial angle is actually Hellenic.

Fio. 118.200


Fia. 114.210


Lastly, bere are some of the earliest portraits of the human species now extant - effigies 5300 years oid.

Fie. 116.21


Fra. 116.272



The preceding four heads are all from painted sculptures in tombs of the IVth dynasty; which commenced at Memphis, according to Lepsius, about 3400 years b.c. The second and third of these heads assimilate closely to many of those already given of XVIth and XVIIIth dynasties; demonstrating that mixed Caucasian types inhabited Egypt from the first to the last of her surviving monuments. We have stated our reasons, in another place, for regarding this special physiognomy to be commingled with foreign and Asiatic elements; and not representative, consequently, of the aboriginal Egyptian stem. The third of these heads is strongly Chaldaic in its outlines; and we think there is little reason to doubt that the ancestral Mesopotamian stock of Abraham had long been mingling its blood with the royal and aristocratic families of Egypt; because, in the IVth, Vth, and VIth dynasties, we find two distinct types sculptured on the monu-ments-the one African or Negroid, and the other Asiatic or Semitic. Of course, when speaking of Abraham's ancestral stock, the reader will understand that we make no reference to this patriarch's individuality. To us, his name serves merely to classify some proximate or identical Chaldaic family of man, originally connected with a common Euphratic centre of creation, of which the existence very likely preceded Abraham's birth by myriads of ages.

Our fourth portrait (Fig. 118) is the only one we can identify, and its associations are most interesting. Prince and Priest Merhetprobably a relative, if not son, of King Shoopho, Cheops, builder of the Great Pyramid - is the man whose tomb, transferred from Memphis to Berlin, and now built into the Royal Museum, has escaped the vicissitudes of time for above fifty-two centuries. His bas-reliefed visage has endured almost intact; whilst, of the "chosen people," every Hebrew portrait, from Abraham to Paul, has been expunged from human iconography. In his lineaments, we behold the pure

Egyptian type, which we shall endcavor to render more obvious through lithographs that are genuine fac-similes of stamps made, on the monuments themselves, by the hand of Lepsiue, at Berlin.
Meanwhile, it is worthy of notice, that, in the ratio of our descent from the sculptures of the IVth dynasty, through the Old Empire, our conventionally-terned "Chaldaic" type supplants the Nilotic to such an extent, that, under the New Empire, and among the aristocracy of the land, it almost entirely supersedes the African type of incipient times. The admixture, in these later ages, of such Asiatic blood, may be due to the so-called Hyksos; who commenced, even hefore the time of Menes, intruding upon, and setthing in Egypt. Alhiances and intermixtures of races, similar to those seen at the present day, have operated among nations in all agea, and everywhere that men and women have encountered each other on our planet.
Four instances may be consulted in Lepsius's Denkmäler, of Egyptian monarchs who have left at the copper-mines of Mt. Sinai, on Stelee, inscribed with hieroglyphical legends, their bas-relief effigies; representing each king in the act of braining certain foreigners: whose pointed beards, aquiline noses, and other Semitish characteristics, combine with the Arahian locality to identify them as Arabs. We give entire (Fig. 119, A) a specimen of the earliest Tablets-"Nom-Shuru

stunning an Arab-barbarian;" and the head of another smitten by "Sencfre;" both kinge of the IVth dynasty, during the thirty-fourth century в. с.

The other two examples (by us not copied) are identical in style, but a little posterior in age; one being of the reign of king Shone, (or Resho) in the Vtb, and the other of Merira-Pepi, in the YIth dynasty. A fifth example might be cited of the IVth, but it is of the same Senvfrid mentioned above. ${ }^{216}$

Here then are represented Egyptian Pharaohs striking Asiatics; and here, we are informed epistolarily by Cher. Lepsius, is the remotest monumental evidence of two distinct types of man; although, an analytical comparison of such antipodean languages as the ancient Chinese with the old Egyptian, of the Atlantic Berber with the Medic of Darrus's inscriptions, of the Hindoo Pali with the Hebrew of Habbakue, and a dozen others we might name, would result in establisbing for each of these distinct tongues such an enormous and independent antiquity, as to leave not $a$ shadow of doubt that all primitive African and Asiatic races existed, from the Cape of Good Hope to China, as far back as the foundation of the Egyptian Empire, and long before. It is in the IVth Memphite dynasty, however, that we find the oldest scalptural representations of man now extant in the world.

In the above figures two primordial types, one Asiatic and the other Egyptian, stand conspicuous. If then, as before asserted, two races of man existed simultaneously during the IVth dynasty, in sufficient numbers to be at war with each other, their prototypes must have lived before tbe foundation of the Empire, or far earier than 4000 years в. c. If two types of mankind were coetaneous, it follows that all other Asiatic and African races found in the subsequent XIIth dynasty must have been also in existence contemporaneously with those of the IVtb, as well as with all the aboriginal races of America, Europe, Oceanica, Mongolia-in short, with every species of mankind throughout the entire globe.

## CHAPTER VI.

## AFRICAN TYPES.

Ode preceding chapters have established that the so-called Caucasian types may be traced upwards from the present day, in an infinite variety of primitive forms, through every historical record, and yet farther back through the petroglyphs of Egypt (where we lose them, in the mediæval darkness of the carliest recorded people, some 3500 years before Christ), not as a few stray individuale, but as populoas nations, possessing distinct physical features and separate national ebaracteristics. We now turn to the African types, not simply because they present an opposite extreme from the Caucasian, hat mainly because, from their early communication with Egypt, much detail, in respect to their physical charactera, has been preserved in the eatacombs and on the monuments.
In our general remarks on species, we bave shown that no classification of races yet put forth has any foundation whatever in nature; and that, after seversl thousands of yeara of migrations of races and comminglings of types, all attempts at following them up to their original hirth-places must, from the absence of historc annals of those primordial times, and in the present state of knowledge, be utterly hopeless. This remark applies with quite as much force to Negroes as to Caucasians: for Africa first exhibits herself, from one extreme to the other, covered with dark-skinned races of various shades, and possessing endless physical charactera, whieh, heing distinct, we mnst regard as primitive, until it can be shown that causes exist capable of transforming one type into another. The Negroes may be traced on the monuments of Egypt, with certainty, as nations, back to the XUth dynasty, about 2300 years B. c.: and it cannot be assumed that they were not then as old as any other race of our geological epoch.
In order to develop our ideas more clearly, we propose to take a rapid glance at the population of Afriea. We sball show, that not only is, that vast continent inhahited by types quite as varied as those of Europe or Asia, but that there exista a regular gradation, from the Cape of Good Hope to the Isthmus of Suez, of which the Hottentot and Bushman form the lowest, and the Egyptian and Berber types the highest links;
that all these gradations of African man are indigenous to the soil ; and that no historical times have existed when the same gradations were not.

When we compare the continent of Africa with the other great divisions of the world, it is apparent that it forms a striking contrast in every particular. Its whole physical geography, its climates, its populations, its faunæ, its flore, \&c., are all pectiliar. Upon examination of maps of Europe, Asia, and America, we see indeed, in each continent, great diversitics of climate, soil, elevations of surface, and other phenomena; still no natural barriers exist so insurmountahle as to prevent the migrations and comminglings of races, and consequent confusion of tongues and types: but in Africa the case is quite different Here stand obstructions, fixed by nature, which man in early times had no means of overcoming. Not only from the time of Menes, the first of the Pharnohs, to that of Moses, hut from the latter epoch to that of Christ, Africa, south of the Equator, was as much a terra incognita to the inhahitants of Europe, Asia, Egypt, and the Barbary States, as certain interior parts of that continent are to us at the present day. We know that, long after the Christian era, the nautical skill necessary for exploring expeditions, no less than for - the transportation of emigrants to those distant latitudes, was wanting; and we have only to turn to any standard work (Ritter's, for instance) on Ancient Geography, to be satisfied of these facts. It is equally certain that what is now termed "Central Africa" could not have been reached hy caravan from the Mediterranean conast, before the introduction of camele from Asia, through Egypt, into Barbary. The epoch of this animal's introduction is now known to antedate the Christian cra but a century or two. It is contended, by the advocates of a common origin for mankind, that this African continent was first populated hy Asiatic emigrants into Egypt; that these immigrants passed on, step by step, gradually changing their physical organizations, under climatic influences, until the whole continent, from the Mediterranean to the Cape of Good Hope, was peopled by the various tribes we now behold scattered over that enormous space. But such an hypothesis can hard!y be maintained, in the face of the fact nsserted hy Lepsius, and familiar to all Egyptologists, that Negro and other races already existed in Northern Africa, on the Upper Nile, 2300 years в. c. - existed, we repeat, in despite of natural harriers which could not have been passed by any means previously known; and, moreover, that all truly African races have, from tho earliest epochas, spoken languages radically distinct from every Asiatic tongue. Linguistic researches have established that, prior to the introduction of Asiatic elements into the Lower Valley of the Nile, the speech of
the ante-monumental Egyptians could have borne no affinity towards the latter. Lepsius, Birch, and De Rougé - our highest philological authorities in this question - coincide in the main principle, that the lexicology deduced from the earliest hieroglyphics exhibits two elements: viz., a primary, or African; and a secondary, or Asiatic, superimposed upon the former. It is also certain that, Syro-Arabian engraftments being deducted from the present Nubian and the Berber vernaculars spoken above and weatward of Egypt, these langunges are as purely African now as must have heen the idiom uttered by the Egyptian ancestry of those who raised the pyramids of the IVth dynesty, 5300 years ngo.

Such are the results of archsology, applied hy that school of Egyptian philologists which alone is competent to decide upon the language of the hieroglyphics. They harmonize with the physiological conclusions we have reached through monumental iconography. But, requesting the critical reader to accompany us upon a map of the African continent, such as those coutrined in the, Physical Atlabes of Berghaus, or Johnston, we propose commencing at the Cape of Good Hope, and following the African races from Table Rock to the Mediterranean. Our himits do not permit a detailed analysis, nor is such necessary, as the few prominent facts we shall present are quite sufficient for the purpose in hand, and will at once be admitted by every reader who is at all competent to pursue this discussion.

What is now ealled Cape Colony lies between $30^{\circ}$ and $35^{\circ}$ of south latitude. It rises, as you recede from the coast, into liigh tablelands and mountains, and possesses a comparatively temperate and agreeable climate; nevertheless, it is here that we find the lowest and most heastly specimens of mankind : viz., the Hotentot and the Bushman. The latter, in particular, are but little removed, botb in moral and physical characters, from the orang-outan. They are not hlack, but of a yellowish-hrown (tallow-colored, as the French term them), with wooily heads, diminutive statures, small ill-shapen crania, very projecting mouths, prognathous faces, and badly formed bodies; in sloort, they are described by travellers as bearing a strong resemhlance to the monkey tribe. They possces many anatomical peculinities, known to physiologists if not recapitulated here. Licetenstein, one of our hest authorities, in describing this race, says:-

[^53]The Hottentots have been supposed by many to belong to the same race as the Bosjesman or Bushmen; and altbough we do not partake of this opinion, the point is too uuimportant to our purpose to justify critical discussion here. In most particulars, the physical cbaracters of Bushmen and Hottentots do not differ greatly - the Hottentota exhibit much of the orang character of the Bushmen, and their females often present two very remarkable peculiarities or deformitics: viz., humps behind their buttocks, like those on the backs of dromedaries, and a disgusting development of the labia pudendi. (See an example in the Hottentot Venus, figured in our Chapter XII.)

The complexion of the Hottentots is compared by travellers to that of a person "affected with jaundice" - "a yellowish-brown, or the hue of a faded leaf" - "a tnwny buff, or fawn-color." Barrow relates that-

[^54]The Hottentots are also very strongly distinguished from all other races by their singular language. Their utterauce, according to Lichtenstein, is remarkable for numerous rapid, harsh, shrill sounds, emitted from the bottom of the chest, with strong aspirations, and modified in the mouth by a singular motion of the tonguc. The name for it is commonly "gluckings." The peenliar construction of the vocal organs of this race greatly facilitates the formation and emission of these sounds, which to other species of men would he very difficult. [We had the pleasure, two years ago, at a meeting of the Ethoological Society in New York, to hear some specimens of this language from Prof. Haldemanx, of Pennsyivania, who possesses an extraordinary talent for imitating sounds, and we can readily believe that the Hottentot vocalization bas no affinity with any other in existence. - J. C. N.]

The next race we encounter, after leaving the Cape, is the Kafirs, or Caffres. They are not only found along the coast to the northeast in Caffraria, but extend far beyond, into the interior of Africa. They display certain affinitice with the Fulah8, Foolahs, or Fellatahe, who are prolonged even into Northern Africa - whence an opinion that the two races are identical; but the fact, to say the least, is a matter of great doubt. The Caffres are traced northward, under various names; and their language and customs are very widely epread. Thougb they are now encouvtered in considerahle numbers near the Cape, their original seat is doubtful. In geograpby, Central

Africa is yet a terra incognita, and we cannot, therefore, fix their birth-place with precision, however manifest may be the Caffrarian link in the chain of gradation we have assumed. Albeit, they resemble the true Negro much more than the Hottentot; whilst, both intellectually and physically, they are greatly superior not only to Hottentots, but to many Negro tribes on the Slave-Coast. They possess some knowledge of agriculture and the use of metals; they dress in skins, and live in towns. Descriptions of the Caffres, hy different writers, vary considerably; and it is probable that several closely allied though diverse types have been included under this general appellation. No one has had better opportunities for studying this race, or can be more competent, than Lichtenstein, and we shall therefore adopt his description.
> "The univeraal charncteristics of all the tribes of this great nation consist in an external form and figure, varying exceedingly from the other nations of Africs: they are much taller, stronger, and their limbs better proportioned. Their color is brown; their hair black and woolly. . Their conntenances have a charncter peculiar to themselves, and which does not permit their being included in any of the races of mankind above enumerated. They have the bigh forebead and prominent noge of the Europeans, the thick lips of the Negroes, and the bigh cheek-hones of the Hottentots. Their beards are black, and mach fuller than those of the Hottentots."

This race, it will thus be seen, is a very peculiar onc, combining both moral and physical traits of the higher and the lower African races. Widely disseminated, they exhibit such singular affinities with opposing, such strange differences from proximate, Africans, that it is impossible to fix them to one locality: at the same time, being, like all savage races, without a history, we are unable to say, with any prohability, to what latitude or to which coast they belong.

When, however, taking our departure from the Cape (the central regions of the continent being unknown), we continue our examination falong the eastern and western coaste, as far as the transverse helt, just beyond the Equator, which separates the two great deserts, Northern and Southern, we find a sucecssion of well-marked types, secmingly indigenous to their respective localities. Along the Ensttern coast we encounter the various tribes inhabiting Inhamhane, Sabia, Sofala, Botonga, Mozamhique, Zanguebar, \&o., each presenting physical characters more :or less hideous; and, almost without exception, not merely in a barbarous, but superlatively savage state. All attempts towards humanizing them have failed. Hopes of eventual improvement in the condition of these brutish families are entertained hy none bnt missionarics of sanguine temperament and little instruction. Even the Slaver rejects them.

If we now go hack to Cape Colony, and thence pass upwards along the Western coast, we meet with another, equally diversified, series
of Negro races, totally distiffet from those of the eastern side, inhabiting Cimbebas, Benguela, Angola, Congo, Loango, Matembns, and Guinea; where we again reach the Equator. These are all savage tribes, but little removed, in physical nature and moral propensities, from the Ifottentots. Anytbing like a detailed analysis of tbem would be but an unprofitable repetition of descriptions, to be found in all travellers' accounts, exhibiting pictures of the most degraded races of mankind. In a word, the whole of Africa, south of $10^{\circ} \mathrm{N}$. lat., shows a succession of human beings with intellects as dark as their skins, and with a eephalic conformation that renders all expectance of their future melioration an Utopian dream, philanthropical, but somewhat senile.

North of the Equator, and dividing the two grent Northern and Southern deserts, we fall in with a belt of country traversing the whole continent of Africa, terminating on the east with the highlands of Ahyssinia - on the west with the uplands of Senegambia; and, between these two points, including part of the Soodan, Negro-land proper, or Nigritin. About $10^{\circ} \mathrm{N}$. lat. stretches an immense range of mountains, which are supposed to run entirely across the continent, and to form an insurmountable barrier between the Soutbern Deserts and the Northern Sahara. Throughout this region, we behold an infinitude of Negro races, differing considerably in their external characters. The annexed extracts from Prichard, bearing upon this subject, contain some important facts requiring comment.

[^55]thick or fall, but eeldon turned out like the thick lips of Negroes; their Ggure is sleader and well shaped, and often resembling that form of which the Egyption paintiogs and atatues aford the most generally known exemplifications. These characters, thougt in some respects approaching towards those of the Negro, are perfeclly distinct from the peculiarities of the mulatto or mixed breed. Most of these nations, both classes being equally included, are originally $A$ frican. By this $I$ do not mean to imply that their first parents were created on the soil of Africa, but merely that they cannot be traced, by historical proofs, from say other part of the world, and that they appear to bave grown into clans or tribes of peculiar physical and social character, or that their national existence had its commencement in that continent." 217

The above paragraph estalishes that Prichard, in accordance here with our own views, cuts loose the population of the basin of the Nile from all the Negro races scattered between Mount Atlas and the Cape of Good Hope. In fact, one of Prichard's great oljects, throughout his "Researches," is to show that there exists a regular gradalion of races, from the highest to the lowest types, not only in Africa, hat throughout the world. The learned Doctor spared no lahor, for forty years, to prove that this gradation is the result of physical causes, acting, as he says, "during chiliads of years," upon one primitive Adamic stoek. We, on the contrary, contend, that many primitive types of mankind were created in distant zoological provinces; and, that the numerous facts, ignored by Dr. Prichard, which have lately come to light from Egyptian mouments aud other new sources, confirm this view. In fact, Prichard himself, in the fifth or final volume of his last edition, virtually abandous the position he had so long and so ably maintained.

The range of mountains which bounds Guinea on the north is supposed, by Ritter and other distinguished geographers, to be the commencement of a huge chain which trends acrobs the continent about the tenth degree, connecting itself with the so-called "Mountains of the Moou," ou the East;::8 and thus constituting an impassable wall, athwart the continent, between the North and the South. Certain it is that the whole of Africa south of this parallel was utterly unknown 600 years ago to any writers, sacred or profane - the coast, on cither side, until renched by navigators, in quite modern times-the intcrior, or central portion of this mountain-land, continues to he less known than even the moon's.

Onc interesting fact, however, is clear: viz., that when, passing onwards from the South, we overleap this stupendous natural wall, ${ }^{219}$ we are at once thrown among tribes of higher grade; although continuing still within the region of jet-black skins and woolly heads. The excessively prognathous type of the Hottentots, Congos, GuineaNegroes, and so forth, is no longer, we now perceive, the prevailing type north of this mountain-range. We here meet with features approaching the Caucasian coupled with well-formed bodies and neatly-turned
limbs; improved cranial developments, and altogether a much higher intellectual character. Here, likewise, the rudiments of civilization are met with for the first time in our progress from the South. Here and there, though surrounded by pastoral nomadism, many of the tribes are rude agricuiturists; manufacturing coarse cloth, leather, \&c.; knowing somewhat of the use of metals, and living in towns of from ten to thirty thousand inhahitants. It must be coneeded, however, that most of this progress is attrihutahle to foreign immigration and exotic influences. In the fertile low-countries, beyoud the Sahara deserts, watered hy rivers which descend northwards from watersheds upon the central highlands, Africa has contained, for centurics, several Nigritian kingdosns, founded hy Mohammedans; while many Arahs, and many more Atlantic Berbers, have settled among the native tribes. To these influences we should doubtless ascrihe thr, maintenance of their Muslim religion and infant civilization: for it is indisputable that the rulers (petty kings and aristocracy) are not of pure Negro lineage. ${ }^{\text {Z0 }}$

This superiority of races north of the mountain-range does not extend to all indigenous tribes; for Denham and Clapperton describe some of the tribes around Bornou and Lake Tchad as extremely ugly, savage, and brutal. It would seem that nature preserves such ahorigiaal specimens in every region of the globe: as if to demonstrate that types are independent of physical causes, and that species of men, like those of animals, are primitive.

We have also numcrous accounts, from Bruce, Riippel, Cailliaud, Linant, Beke, Werne, Combes et Tamisier, Rochet d'Héricourt, Russegger, Mobammed-el-Tounsy, Lepsins, and other explorers, of Senndar, Dar-Four, Kordofann, Fazoq1, of the wild Shillooks, \&c., borderiug on the White Nile and its tributaries, and of the western slopes of Abyssinia; and they concur in representing most of these superlatively barbarous tribes as characterized by Negro lineaments, more or less well marked. Of such unaltered types we sec many authentic samples depieted on the Egyptian monuments of the XVIUth dynasty; and we find that some are referred to in the hieroglypbical inscriptions as early as the XIIth. Indeed, the first authentic evidences extant of Expeditions, made to penctrate towards the Nile's unknown sourees, date with the XIIth dynasty, about 2300 в. с.; when Sesourtesen III. had extended his conquests up the river at least as high as Samneh, in Upper Nubia, where a harbor, or arsenal, and a temple (the former repaired by the Amenemhas, and the latter rebuilt by Thotmes III.), with other remains, prove that the Pharaohs of the XIIth dynasty had established fronticr garrisons. But, as the Tablct of Wedee Halfa contains the names of nations undoubtedly Nigritian,
and inasmuch as there are abundant arguments to prove that the habitat of Negro races anciently, as at this day, never approximated to Egypt closer than, if as near as, the northern limit of the Tropical Rains, we can ascend without hesitation to the age of Sesourtesen I.; and confidently assert that, in the twenty-third century в. c., the knowledge possessed by the Pharaonic Egytians concerning the upper regions of the Nile exterded to points as austral as that derived between A. D. 1820 and 1835, by civilized Europe, from the Ghazeas, or slave-hunts, of Mohammed-Ah. ${ }^{21}$ Time has transplanted some of these upper Nilotic families, over a few miles, from one district to another; but that such movements have entailed no physical mutations of race, we shall perceive hereinafter.

We have already stated, that Senegamhia, on the west of Central Africa, like the eastern extremity at Ahyssinia, ${ }^{2 m}$ rises into mountains and elevated table-lands - physical characters which usually accompany higher grades of humanity than those of the hurning plains below. It is here that we find sundry of the superior (so-called) Negro races of Africa: viz., the Mandingos, the Fulahs, and the Iolofs. The-Mandingos, a very numerous and powerful nation, are remarkahle among the African races for their industry and energy; and, of tho genuine Negro trihes, have perhaps manifested the greatest aptitude for mental improvement. They are the most zealous and rigid Mohammedans on the continent. Agriculturists, cattle-breeders, clothmanufacturers, living in towns, they possess schools, engage in extensive commerce, and use Arahic writing. Goldberry, Park, Laing, Durand, and other travellers, coincide in the statement tbat these Mandingos are less hlack, and have better features, than Negroes; indeed, Goldberry, who is good authority, says they resemhle dark Hindoos more than Negroes.

The Fulahs ${ }^{23}$ are a still more peculiar people, whose history is involved in much obscurity. They are supposed, by many authorities, to be a mixed race. Their type and language are totally distinct from all surrounding Africans. According to Park and others, they rank themselves among white people, and look down upon their neighbors as inferiors; at the same time, they are always the dominating families, wherever found. The contradictory deseriptions of travellers lead us to suspect some diversity of physical characters among these Fulahs, or Fellatahs. They are not black, but of a mahogany color, witb good features, and hair more or less straight, and often very finc. They are commercial, intelligent, and, for Africans, considerably advanced in the civilization they owe to Islamism and tbe Arabs.

The Yolofs, hetween the Senegal and Gambia, the most northerly

Negro nations on the West coast, are represented to be the comeliest of all Negro tribes.

[^56]Here, again, is a combination of physical characters whieh contradicts the alleged influence of climate; because the Iolofs, and some other races north, are jet-hlack, while the Fulahs, and others, under and south of the Equator, are comparatively fair.

We shall show, in another place, that history affords no evidence that education, or any influence of civilization that may be brought to hear on races of inferior organization, can radically change their physical, nor, consequently, their moral, characters. That the hrain, for example, which is the organ of intellect, cannot he expauded or altered in form, is now admitted hy every anatomist; and Prichard, in recapitulating his results as to the races of Central Africa, makes the following important admission : -

[^57]The truth of these observations is sustained hy all past history, hacked by every monument. Much as the success of the infant colony at Liheria is to he desired by every true plilanthropist, it is with regret that, whilst wishing well to the Negroes, we cannot divest our minds of melancholy forebodings. Dr. Morton, quoted in another chapter, has proven, that the Negro races possess ahout nine cuhic inches less of hrain than the Teaton; and, unless there were really some facts in history, something beyond hare hypotheses, to teach us how these deficient inches could he artificially added, it would seem that the Negroes in Africa must remain substantially in that same henighted state wherein Nature has placed them, and in which they bave stood, according to Egyptian monuments, for at least 5000 years.

Prichard's herculean work is so replete with interesting facts and valuahle deductions, that we are tempted, almost at every page, to
make extracts. The following resumé is certainiy decisive in establishing the entire want of connexion between Types and Climate.
"The diatinguishing peculiarities of the African races may be sammed np into fort heads ; riz. : the characters of complexion, hair, features and figare. We have to remark-
" 1. That some races, with woolly hair and complexions of a deep black color, have fine forms, regular and heauliful festures, and are, in their figure and countenances, acarcely different from Earopeane. Such nre the Iolofs, near the Senegal, and the race of Gaber, or of Hatuga, in the interior of Sudan. Some tribes of the South African race, as the darkest of the Kafirs, are nearly of this description, as well as some families or tribes in the empire of Kongo, while others have more of the Negro character in their countenances and form.
"2. Other tribes have the form and features similar to those above degcribed: their complexion is black or a deep ollive, of a copper color approsehing to black, while their hair, though often crisp and frizzled, is not the least woolly. Such are the Bishari and Dabakil and Hazorta, and the darkest of the Abyssinians.
" 8. Other instances have been mentioned in which the complexion is hiack and the features have the Negro type, while the nstore of the hair devistes oonsiderably, and is even said to be rather long and in flowing ringlets. Some of the tribes near the Zambei are of this clebs.
"4. Among nations whose color deviates towards a lighter hae, we find some with woolly hair, with s figure and features approsching the Earopean. Sach are the Bechusna Kalre, of a light brown complexion. The tawny Hottentota, though not approaching the European, differ from the Negro. Again, some of the tribes on the Gold Coast and the Slaye Coast, and the Гbos, in the Bight of Denin, are of a lighter complexion than many other Negroes, while their featares are strongly marked with the peculisrities of that race."

These observations, Prichard thinks, cannot be reconciled with the idea that the Negroes are of one distinet species; and that the opirrion sustaining the existence, among them, of a number of separate species, each distinguished by some peculiarity which another wonts, might be more reasonably maintained. The latter supposition he conjectures, however, to be refuted by the fact that species in no case pass so insensibly into each other. It will appear, notwithstanding, when we come to the questions of hybridity and of epecific characters, that Prichard's doctrine, besides being in itself a non sequitur, is overthrown hy positive facts.
Prichard himself tells us, "there are no authentic instances, either in Africa or elsewhere, of the transmutation of other varieties of mankind into Negroes." ${ }^{23}$ We have, however, he continues, examples of very considerable deviation in the opposite direction. The descendants of the genuine Negroes are no longer such: they have lost in several instances many of the peculiarities of the stock from which they spring. To which fallacies we reply, that vague reports of misinformed travellers alone support such assertion. Our remarks on the Permanence of Types establish, that what physiological changes Prichard and his achool refer to climatic influences, are indisputably to be aseribed to amalgamation of races.
Let us now travel through Nigritio, and ascend the table-lands of

Abyssinia; where another climate, another Fauna, another Flora, and another Type of Man, arise to view. Here, for the first time since our departure from the Cape of Good Hope, we stand among tribes of men who are actually capacitated to enjoy a higher stage of civilization; and, although we have not yet reached God's "noblest work," we have happily waded tbrough the "slough of despond" in human gradntions of Africa.
Readcr! let us imagine oursclves standing upon the highest peak in Abyssinia; and that our vision could extend over the whole continent, embracing south, east, north and west: what tableaux-vivants would be presented to the eye, no less than to the mind! To the south of the Sahara we sbould descry at least $50,000,000$ of Nigritians, steeped in irredecmable ignorance and savagism; inhahiting tbe very countries where history first finds tbem - vast territorial expanses, which the nations of the nortb, in ancient times, had no possible means of visiting or colonizing. Do we not behold, on every side, buman characteristics so completely segregated from ours, that they can be explained in no other way than by supposing a direct act of creation? Upon the moral and intellectual traits of such ahject types no impression has been mado within 5000 ycars: none can be made, (so far as science knows,) until their organization becomes changed hy-sillicst of desperate suppositions-a "miracle." Turn we now towards tbe north. There we hehold the tomhs, the ruined temples, the gigantic pyramids of Pharaonie Egypt, which, braving the hand of time for 5000 years past, seem to defy its action for as many to come. These monuments, moreover, were not only built by a people differing from all others of Asia and Europe, in characters, language, civilization, and other attrihutes; but diverging still more widely from every other human type. Positive evidence, furthermore, exists, that Negroes, at least as far back as the XIIth dynasty, in the twenty-fourth century в. c., dwelt contemporaneously in Africn: which is parallel with (日. c. 2348) the era ascertained, to a fraction by Rabbinical arithmetic, for Noan's Flood; when all creatures outside of the Ark, except some fishes, had found a watery grave! But we pursue our journey.

Abyesinia, according to Tellez, is called by its inhabitants Alberegran or the "lofty plain;" by which epithet they contrast it with the low countries surrounding it on almost every side. It is compared by the Abyseinians to the flower of the Denguelet, which displays a magnificent corolla surrounded by thorns - in allusion to the many barbarous tribes who inhabit tho numerous circumjacent valleys and low lands. ${ }^{2 *}$

The bighlands of Abysinia, properly so called, stretch from the southern provinces of Shos and Efat, whicb are not far distant from

Enarea under $9^{\circ}$, to Tscherkin and Waldubha under $15^{\circ} \mathrm{N}$. lat.; where they make a sudden and often precipitous descent into the stunted forests occupied by the Shangalla Negroes. From east to west they extend over $9^{\circ}$ of longitude. Rising at the steep horder or terrace of Taranta from the depressed tract along the Arabian Gulf, they reach the mountains of Fazolco, Dyre and Touggoula; which overhang the flat, sandy districts of Senadar and the valleys of Kordofan. (Rittre.)

The researches of Bruce, Salt, Ritter, and Beke, have shown that the high country of Habesh, Abyssinia, consists of three terraces or distinct table-lands, rising one above another; and of which the several grades or ascents present themselves in snccession, to the traveller who advances from the shore of the Red Sea. ${ }^{2 \pi}$

The plain of Baharnegash is first met after traversing the low and arid steppe of Samhard, inhabited by the black Dandkil and Dumboeta, where tbe traveller ascends the heights of Taranta.

The next level is the kingdom of Tigre, which formerly contained the kingdom of Axum. Within this region lie the plains of Enderts and Giralta; containing Chelicut and Antalow, principal cities of Abyssinia. The kingdom of Tigré comprehends the provinces of Abyssinia westward of the Tacazze, of which the larger are Tigré and Shire towards the north, Woggerat and Enderta and the mountainous regions of Lasta and Samen towards the south.
High Abyssinia-kingdom of Amhara-is a name now given to the realm of which Gondar is the capital, and where the Amharic language is spoken, eastward of the Tacazze. Amhara proper is a mountain province of that name to the southeast, in the centre of which was Tegulat, the ancient capital of the empire; and, at one period, tbe centre of civibization of Abyssinia. This province is now in the possession of the Galla; a barharous people who have overcome the southern parts of Habesh. The present kingdom of Amhara is the heart of Abyssinia, the abode of the Emperor or Negush. It contains the upper course of the Blue Nile. The climate is delightfulperpetual spring; and the mean elevation about 8000 feet. The upland region of Amhara, or rather the province of Dembea, breaks off towarda the northeast, by a mountainous descent into the plains of Sennarar and lower Ethiopia. On the outskirts of the highlands, and at their feet, are the vast forests of Waldulba and Walkayat, abound ing with troops of monkeys, elephants, buffuloes and wild boars. The buman inhabitants of these tracts and the adjoining forests, and likewise of the valleys of the Tacazze and the Angrab, are Shangalla Negroes, who in several parts environ the hill-country of Ahyssinia. ${ }^{28}$

Races inhabiting Abysinia.--Several different races inbabit the oid empire of the Negush or Abyssinian sovereign, who are commonly included under the name of Habesh or Abyssinians. They differ in language, but possess a general resemblance in their physical characters and customs. Whether they really are of unique origin is a question which science has no data for settling. Those who believe that the Hebrew and the Hottentot (as well as camels and cameleopards) are of one and the same stock, will unhesitatingly answer in the affirmative.

1. The Tigrani, or Abyssins of Tigré.-These are the inhabitants of the kingdom of Tigré, on the cast of Tacazze - speaking the lingua

## Tigrana.

2. The Amharas. - They have for ages been the dominant people of Abyssinia, and speak the widely-spread Amharic language.
3. The Agows.-There are two tribes bearing this appellation, who speak distinct tongues, and inhabit different parts of the country.
4. The Falashas.-This race has much puzzled ethnographers, and their history is involved in obscurity. They possess strong affinities with the Fulahs on the western coast, and have not only been supposed by many to be of the same stock, but both have been regarded as identical with the Kafirs (Caffres) of Soathern Africa. The Falashas are Jews in religion, though their language has no affinity with the Hebrew ; and they use the Gheez version of the Old Testament.
5. The Gafate are another trihe, possessing a language of their own.
6. The Gongas and Enareans bave also a language distinct from all the above.

There are other tribes which might be cnumerated, apeaking languages hitherto irreconcilable. Whether these really present affinitics, or whether some of them be not radically distinct, are questions yet undetermined.

Physical Characters. - Human races of the plateaux of Abyssinia are said to resemble each other, although it is admitted on all hands that they vary considerably in complexion and features.

Prichard, who has brought all bis immense erudition to bear on these families, cuts them loose entirely from Negro races; and classes them under the head of Ethiopians; who, we shall sec, have been very improperly confounded with Negroes. After treating on the general resemblance, in physical characters, of these nations, he coneludes-
"By this nationsl character of conformation, the Abyssidjans are associated with that clars of African nations which 1 have proposed to denominate by the term Eikiopian, as dietinguishing them from Negroes. The distinction hes indeed bean already established by

Beron Larrey, Dr. Rluppell, M. de Chabrol, and others. Some of these writers inclade in the same department the Abyssing, the native Egyptians and the Barabra, separating them by a broad line from the Negroes, and almost as widely from the Arahs and Europeans. The Egyplisas or Copts, who form one branch of this stock, have, according to Lartey, a ' yellow, dusky complexion, like that of the Abyssins. Their countenance is full without being puffed; their eyes are beautiful, clear, simond-shaped, and languishing; their cheekbones are projecting; their noses nearly straight, roanded at the point; their nostrils dilated; mouth of moderate size; their lipg thick; their teeth white, regular, but a littlo projecting; their beard and hair black and criap.' 230 In all these charactera, the Egyplians, sccordigg to Larrey, agree with the Ahyssins, and are distinguished from the Negroes."

The Baron enters into a minute comparison of the Abyssinians, Copts, and Negroes; concluding that the two former are of the same race; and supporting this idea with Egyptian sculptures and paintings, and the crania of mummies.
M. de Ceabrol, describing the Copte, says that they evince decidedly an Africon character of physiognomy; which, he thinks, establishes that they are indigenous inhabitants of Egypt, identifying them with the ancient inkabitants:-
"On peut admettre que leur race a au se conserver pure de toute mélange avec le Greca, puisqu'ils n'ont entre eux ancon trait de ressemblance." 23
[This must be taken with many grains of allowance; for the present Copts are hybrids of every race that has visited Egypt: at the same time that his "African physiognomy" evidently means no more than that the character of countenance termed Ethiopian is not that of the Negro.-G. R. G.]

Dr. Rüppell has also portrayed the Ethiopian style of countenance and bodily conformation as peculiariy distinct from the type both of the Arabian and the Negro. He describes its cbaracter as more especially belonging to the Barabra, or Berberins, among whom he long resided; hut he says that it is common to them, together with the Ababdeh and the Bishari, and in part with the Abyssinians. This type, according to Rüppell, hears a atriking resemhlance to the characterietics of the ancient Egyptians and Nuhians, as displayed in the statues and aculptures in the temples and sepulchral excavations along the course of the Nile.

The complexion and hair of the Abyssinians vary very much: their complexion ranging from almost white to dark brown or black; and their hair, from straight to crisp, frizzled, and almost woolly. Hence the deduction, if these are facts, that they must he an exceedingly mixed race. Dr. Prichard, in defining the Abyssinians, has taken much paina, as we have said, to prove that they, together with families generally of the eastern basin of the Nile, down to Egypt inclusive, not only are not Negro, but were not originally Asiatic races; displaying somewhat of an intermediate type, which is nevertheless essen-
tially African in character. To us, it is very gratifying to see this view so ably sustained; because, regarding it as an incontrovertible fact, we have made it the stand-point of our argument respecting the origin of the ancient Egyptians, whose effigies present this African type on the earliest monuments of the Old Empire more vividly than upon those of the New. This autochthonous type, as we shall prove, ascends so far back in time, is so peculiar, and withal so connected with a primordial tongue - presenting lut emall incipient affinity with Asiatic languages about 3500 yeare b. c.- as to preclude every idea of an Asiatic origin for its aboriginally-Nilotic speakers and hieroglyphical scribes.

Languages of Abyssinia. - In tracing the history of this country, we find the Gheez, or Ethiopic, the Amharic, and other Alyssinian languages. It is no longer quicstionable, that the Gheez or Ethiopic -idiom of the Ethiopic version of the Scriptures, and other modern books which constitute the literature of Abyssinia-is a Semitic dialect, akin to the Arabic and Mebrew.
"There is no resson to donbt [says Prichard], that the people for whose use these books were written, and whose vernacular tongue wis the Gbeez, were a Semitic race. How, and at what time, the highiands of Abyesinis came to be inhabited by a Semitic people, and what relationa the modern Abysainians bear to the family of nations, of which that people were a branch, are questions of too mach importance, is African ethoography, to be passed withoat exsminstion."

The Gheez is now extant merely as a dead language.
The Amharic, or modern Abyssinian, has been the vernacular of the country ever since the extinction of the Ghecz, and is spoken over a great part of Abyssinia. It is not a dialect of the Gheez or Ethiopic, as some have supposed, hut is now recoguized to be, as Priehard affirms, " a language fundamentally distinet." It has incorporated into itself many words of Semitic origin ; hut accidents of reecnt date do not alter the case, as concerns the former existence of local Abyssynian idioms, non-Asiatic in structure. So with the Atlantic Berber language, which has likewise become much adulterated by foreign grafts: yet Venture, Newman, Castiglione, and Gräberg de Hecnso, have fully proved that it is essentially, and in the primary or most original parts of its vocabulary, a speech entirely apart, and devoid of any relation whether to Semitic or to any other known language. The same remark applies with equal truth to the Amharic, which was prohably an ancient African tongue, and one of the aboriginal idioms of the inhabitants of the south-enstern provinces of Ahyesinia. Prichard winds up his investigation with the following emphatic avowal, so that we may consider the question settled:-"The langunges of all these nations are essentially distinet from the Gheez and cvery other Semitic dialect." Our own general conclusion from the pre

- mines is, tbat, while the Abyssinians are absolctely distinct, on the onc hand, from every Negro race, they are, on the other, equally distinct, in type and languages, from all Asiatic races; and ther must therefore be regarded as autoctbones of the country where they are now found.

On the south and south-east of Abyssinia there exist other races which might be enumerated; the Gallas, for example, with brown complexion, long crisp hair, and features not cnlike tbe Abyssinians. Ano, the Danakil, the Somauli, \&c. - none of whom are Negroes: their types being intermediate - long hair, skins more or less dark, good features, \&e.; all partaking far more of the Ethiopian than of the Negro. [No Abyesinian natives having fallen under the writer's rewonal eye, he cannot prononnce upon them with the same confirlence that be speaks of Negtoes; but bis colleague, Mr. Gliddoa, whose twenty-odd ycars' residence in Egypt, indiridual aptitude of observation, and extensive Oriental knowledge, render his opinions of some weight in these Nilotic questions, refers to the exquisite plates of Prise d'Avennes ${ }^{23}$ for what may he considered the most perfect exprersion of this Ahyssinian type. We accept M. Prisse's life-like sketches the more readily, inasmuch as tbey barmonize with the best accounts we have read, and with our own etlinological deductions, through analogy, of the characteristics that Abyssinians must pre-sent.-J. C. N.]

On resuming our line of mareb, then, north towards Egyt, we turn our backs upon the Soodan, "black countries," ever the true land of Negroes; and descend from the Abyssinian highlands on the north-west and north, along the horders of Gondar and Demhea. Here, again, we meet divers seattered tribes, with black skins and woolly heads - varieties of the intrusive Shangalla, who now are found uot only on the west, but on the northern borders of Habcsh; while on the south-east we descry the Dobos. In Sennaar we again encounter Negro tribes - the Shilooks and the Tungi ; inbahiting the islands of the Bahr-el-Abiad, above Wadee Shallice. Fully deseribed by Scetzen, Linant, Lord Prudhoe, Russegger, and others; they present Negro types more or less marked. This fact might seem to contradict our statement with regard to the primitive localities of Nigritian races. We look upon such minutix, homever, as unimportant; because, contending simply for a gradation of African races, a few hundred miles, within the same upper Nilotic basin, do not affect the main principle. Dr. Ruppell, than whom there is certainly no better authority on this question, corroborates our assumption, by asserting that the present stations of those Negro races are not their ancient abodes. He assures us that -

## "The Shilakh Negroes are a nomerons and widely oprend people, in the country of Bertal, bordering on Fertit, and to the southward of Kordofan, beyond the tenth degree of Iatitude, whence they hare dippersed themelves, towarde the East and North, along the coarse of the White Sile."

Prichard furthermore admits, that "the people of Sennàar are no longer Negroes," quoting M. Cailliaud to sustain himself; and adding the latter's description of the physical character of the races of Senniar in general:-
"Les indigènes du Sennasr ont le teint dun brun cnifré lears chevenx, quoique crapes, different de ceux dé rrais Nègres: ils n'ont point, comme ceuxci, le nez, les lerres, et les jones, вsillantes - l'ensemble do lear physiognomie est agréable et regrlier."

Cailliaud further remarks, that -
"Among the inhabitanta of the kingdom of Semaar, and the adjoining countries to the south, the results of mixture of race, in the intermarriage of Sondanians, Ethiopiane, and Arebs, were frequently to be traced."

He holds, as does also Cherubini, ${ }^{20}$ that aix distinet castes are well known in that country, the names and descriptions of which they give. ${ }^{24}$

After a careful review of most leading authorities on the races of Africa, we have arived at the conclusion that, upon ascending the tahle-lands of Ahysinia, at the south and west, we hid adien to the true Negro-land (believing that every dispassionate inquirer must come to results identical). Which departure taken, we find, along the descending waters of the Nile, only some few scattered Negro types, who have wandered from their indigenous and more austral soil. Dr. Prichard, we have stated, fully recognizes the gradation of African races for which we have been contending, but he attrihutes it entirely to the operation of physical causes - assigning imaginary reasons, unsubstantiated by even the slenderest proof, and in negation of which we hope to adduce overwhelming testimony.

Nubians. - Next in order, we must glance at the races inhabiting Nubia and other countries between Abyssinia and Egypt, about whon much nnnecestary confusion has existed, simply because few Europenn travelhers among them have been eompetent physiologists. One people who inhahit the valley of the Nile above Egypt, and from that country to Sennàar, give themselves the appellation of Berberri (in the singular). By the Arabs, they are termed Nuba and Barabera. The same people in Egypt, whither they inmigrate in large numbers, are by Europeans called Berberins. These races, through similarity of name, have heen erroneously confounded with the Berbers of the Barbary States; but they differ in language, features, and every essential particular. ${ }^{24}$ The Nubinus constitute altogether a groun of peculiar races, differing from Arabs, Negroes, or Hgyptinus - possessing a physiognomy and color of their own. They speak languages
peculiar to themselves; in which, from the time of Moses, they were hieroglyphed as BaRaBeRa, no less than as Nuba. They are in the habit of coming down to Egypt, where their offices are wholly menial; and among other articles of traffie, some clans bring Negroes procured from the caravans of Sennaar, and are commonly known at Cairo under the name of Gellabs, "fetchers," or slave-dealers.

The diserepancy in the descriptions given of this Nubian race by travellers, demonstrates that there exists among them considerable variety of colors; and hence, at once, we feel persuaded of no little mixture of races. Denon describes them as of a "shining jet-biack," but adds, "they have not the smallest resemblance to the Negroes of Western Africa." Other travellers speak of them as copper-colored, or black, with a tinge of red, \&c. The fact is, the mothers are often pure negresses, and their children mulattoes of all shades. Their proper physical character is, we think, well described by M. Costaz:-


#### Abstract

"La cooleur des Barâbras tient en quelque sorto le milien entre le noir d'ébène des babitans de Sennasr et le teint basane des Egyptieng du Sayd. Elle eat exactement aemblable à celle de l'acajou poli fonce. Les Barabres se prévalent de cette nuance, poar se ranger parmi les blance. . . Les traith des Barâbras se rapprochent effectivement plue de ceur des Europesas que de ceux des Nègres: leur peau est d'un tissu extrêmement ín - sa conlear ne prodait point un effect déragréable; la naance rauge, qui y est mêlee, leur donne an nir de sante et de vie. Ils different des Nègres par leur cheveux, qui sont longs et legèrement crépus bans âtre laineur.


Dr. Rüppell's very scientific account of the races inkabiting the prorince of Dongola contains the following:-


#### Abstract

"The inhabitants of Dar Doagola are divided into two primeipal classes: namely, the Barabra, or the descendants of the old Ethiopian natives of the eountry, and the races of Arabs who have emigrated from Hedjas. The ancestors of the Barabra, who, in the course of centuries, have heen repeatedly conquered hy hostile tribes, must have undergone some interminture mith people of foreigh hlood; yet an attentive inquiry will still enable us to distinguish among them the old national phyeiognomy, which their forefathers have marked upon colossal atatues and the bas-reliefs of temples and sepulchres. A long oval countenance; a beautifully curved nose, somewhat rounded towards the top; proportionally thick lips, but not protruding excessively; a remarkably beautiful figure, generally of middle size, and a brown color, are the characteristics of the genuine Dongalawi. These eame trate of physiognomy are generally found among the Absbdi, Bishari, a part of the inhabiants of the province of Schendi, and partly also among the Abyesinians."


Many of tbe Barabra speak Arabic, and with an acceut ever " $84 i$ generis;" but very few frec Arabs consider it respectable to learn Berberree, which they affeet to dcspise as Rutina, a "jargon." Both races keep themselves separate; and marriage connexions hetween then, entailing disgrace upon the Arah, are, at the present day, of so rare oscurrence, that Berberri husbands at Cairo are only adopted for one day, in cases of "triple divorce." ass There are many citations of Arab historians to support the conclusion that some septs of these so-termed

Bardibra derived their origin from a country westward of the Nile, and not far from Kordofan. A doubt thus arises not only, as above mentioned, with regard to Negroes, but whether some Nuhians themselves did not come originally from the west of the White Nile. This opinion, confirmed to some extent hy affinity of language and by modern traditions, is contradicted, apparently, by the monuments:1st, Egyptian monarchs of the XVШth dynasty conquer the Nouba, no less than the Bardbera, in their expeditions of the fourteenth and fifteenth centuries b. c. 2d, The portraits of these Ancient Nuhians exhibit precisely the same traits, whilst occupying, 3500 years ago, the same topographical hahitats, as their deseendants at the present day; and the nostalgic tendencies of the modern Berberri are so notorious, that voluntary displacements on his part seem improbable.
In Part II. of this volume, under the head of KUSh, the reader will meet with ample investigations: although, beyond general accuracy, a minutely-exact geographical settlement of these Nuhinn groups is not essential to anthropology; hecause, whether in the Lower or Upper Nubias, or in Kordofan, they lie now, where their progenitora ever did, along the Nile; that is, hetween the Egyptians at the north and the Negroes at the south. And, after all, their mightiest dislocations are confined within an area of 500 miles, up or down a single river. To us they are, consequently, merely Nubian ahorigines.

The population of Kordofan now consists of three races at least, who are physically distinet, each speaking different languages:1. Bedouin Arabs from the Hedjàz. 2. Colonists from Dongola. 3. Original natives of the country, who call themselves Nouba, whereas, in race, they are genuine Negroes. We dwell not, however, on exotic races; but upon the Nubians proper: whose type is independent of this chaos of national names, often erroneovsly given to them, as well as misappropriated by them. Dr. Prichard says:-

[^58]But the Barabra are not Negroes; their hair, though slightly frizzled and crisp, is long and not woolly: and Prichard's surmise of auy great Nubian displacements since Pharaonic times, was doubted by Morton, ${ }^{296}$ and is overtbrown by facts we owe to Birch. ${ }^{27}$ Burckhardt, Cailliaud, and other travellera who have visited this part of Africa, tell us that the Noubas, who are Negroes, do not here resemble in form, features, hair, complexion, \&e., other Negroes of the west coast, but approximate more closely to the type of Barabra or true Nubians. It is clear that there exists some strongly-marked diftereuce between
the Nouba of Kordofin and the Barabra of Nubia; which Dr. Prichard is at a loss whether to attribute to climate or to comminglings of races. Of the two opinions the latter is the only reasonable one; because the Nubians or modern Baribra are the representatives of an original indigenous stock; whose normal position stands northward of pure Negro races.

The inhabitants of Dar-Four and Fezzàn exhibit some striking peculiarities, but we shall pass them by, as nonessential to our present objects, with the observation that, wbile the former approximate the Nubian, the latter verge towards the Atlantic Berber type.

The Eastern Nubians, or Bisharine or Bejawy Race. - To the enstward of Nubia, throughout the deserts and denuded hill-country cast of Egypt, we encounter different tribes and nations, all supposed to belong to the same race, which is one of the most widely-spread in Ethiopia, stretching from the Eastern desert at Thebes, to the So-mauli-country below Shoa. The Bishari are the most powerful of these clans. The Hadharebe, to the southward of the Bishari, and the Ahabdeh, to the nortbward, belong, it is believed, to the same stock. Under tbe appellation Hadharebe are included uumerous tribes, which it would he tedious and useless to enumerate. ${ }^{28}$ Suakim, or Suakin, is their principal settlement; and of this place and its inhabitants Burckhardt supplies an ample account.

[^59]To the same excellent observer we are indehted for a fact that, seized upon to sustain the exploded idea of physical changes through climate, in reality affords the happicst illustration of the mode through which types of man become naturally effnced; viz.: by forcign amalgamations. The town of Suakim; in Ptolemaic times Berenice; and containing ( 970 в. c.) the ancestors of the same Sukkiim ${ }^{20}$ that now reside in its neighborbood; exbibited in Burckhardt's day a triple population, viz.: native Hadharebe, Arabs from the opposite coast, and the descendants of some Turkish soldiery left there by Sooltnn Seleem. "The present race," says Burckhardt, "bave the African features and manners, and are in no way to be distinguished from the Hadherebe." ${ }^{21}$
Turkish soldiery cohabit with the females of every land in which they are posted; and, while they rarcly carry their own women with them, of all points of Ottoman conquests, Suakim, on the African desertconst of the Red Sea, would be the least likely to have heen occupied by Turkish married couples. In consequence, Selecm's garrison there,
after the subjugation of Egypt in A.D. 1517, adopted as wives and concubines the females of the Hadharebe; and in less than ten generations, down to the period of Burckhardt's travels, their descendants had been already absorbed into the aboriginal masses whence the mothers had been drawn. ${ }^{212}$ Sustainers of "unity," who once snatched franticly at Turks metamorphosed, by climate, into Africans, are welcome henceforward to what capital they can evolve from Burekbardt's narrative.

The country of the Bishari reaches from the northern frontier of Abyssinia, along the course of the river Mareb, which flows through the nortbern forests of the Sbangallah to the Belad-el.Taka and Atbara, where dwell the Hadendoa and Hammadab, said to be the strongest tribe of the Bishari race. Tribes of the Bishari reach northward as far as Gebel-el-Ottaby in the latitude of Derr, where the Nile, after its great western hend, turns back towards the Red Sea; they occupy all the hilly country upon the Nile from Sennaar to Dar Berber and to the Red Sea. (Phicinad.) Travellers do not give a flattering account of their social condition. Burckhardt states: "The inhospitable claracter of the Bisharein would alono prove them to be a true African race, were this not put heyond all doubt by their language." Rüppell declares that the physical character of the Bisbari is very like that of the Bardbra. Burckhardt again observes, "The Bishari of Athara, like tbeir brethren, are a bandsome and bold race of people. I thought the women remarkably handsome; they were of a dark brown complexion, with beautiful eyes and fine teeth; their persons slender and elegant." Hamilton, who saw a few of them during his short stay about Assouin and Philx, yields very much the same account, with the commentary, that many of tbem are beheld with " $\mathfrak{a}$ cast of the Negro, others with very fiuo profile." Prichard makes the following just and significant remark on this description: "This rort of variety in pbysiognomy is obscrved by almost every traveller in tbo eastern parta of the contiucut, from Kafirland to Nubia and Egypt." Now, on the west, the population has been cut off, by deserts and other uatural impediments, from all foreign admixtures, in consequence of their isolated position; while, on the east, they have heen subjected from time immemorial to adulteration from Semitic immigrants. Both the Bisbari and Ahahdeh have been somewhat adulterated with Arab blood; and, donbtless, far more so through Negresses, their slaves. They may, bowever, be considered a tolerably pure African race, inasmuch as the marks of adulteration are not by any means universal; at the same time they bave preserved their native tongue, while the Arabic idioms have supplanted other Ianguages around them.

The Ababdeh occupy the country to the northward of the Bishari; viz.: from the parallel of Derr to the frontiers of Egypt, and in the eastern desert as far northward as Qosseyr: they were scarcely known previously to the French Expedition to Egypt. M. du Bois Aymè, a member of Napoleon's Egyptian commission, affords the earliest description of the $\Delta$ bahdel :-
"Les Abâbdeh sont un tribu'nomade, qui habitent les mantagnes sitaées a l'orient du Kil, au sud de la vallée de Qoçeyr. Ifs diflerent entièrement, par leur moeurs, leur language, leur costume, leur constitution physique, des tribas d'Arabes, qui, comme cenx ci, oceupent les deserts qui environnent l'Egypte. Les Arabs sont blancs, se rasent la tête, sont vetus. Les abâbdeh sont noirs, mais leur traita ont besocoup de ressemblance syec ceux dea Earopens. Ils ont les cheveux naturellentert bouclet, mais point laineux."

Belzoni, who knew them well, says their complexions are naturally of a dark chocolate ; their hair quite black ; their teeth fine and white, protuberant and very large.

It will be seen, from what precedes, that considerahle is the discrepancy among descriptions by travellers of these Ababdeh and Bishareen, as well as of other races. This arises, doubtless, from two facls: 1, That they are a mixed population, descended from several primitive races ; 2, That they have been described at different topographical points.

The following observations of M. Prisse-whose residence among these trihes in Upper Egypt counts years where others reckon months, or, more frequently, weeks, is a guarantee for the accuracy of his ethnological drawings - completely demonstrate the truth of our deductions:-
> "The manners of the Bedjah deacribed by Arab anthora are even yet those of these populations, who, under the name of Ahabdeh, of Bishari, or Bichareen, and others lesa known, inhahit the same countries at this day. . . . . In 1836 , out of 500 men (Ababdeh) of the tribe, assembled at Louqbor for the transportation of wheat to Cossefir, nearly 100 Arsba were found, who had married Ababdeh girls to avoid the conscription and the Laxea . . . . . The Ahabdeh have a peculiar idiom, which seems to be that of the aboriginea, or the ancient Ethiopians. . . . . . The Bishari commence at the north, where the Ababdeh finish, and extend to the south es far as the vicinity of Sounkim. They occupy all thet chain of mountaing which runs along the eastern const of Africes, and that seems to be the cradle of all these wandering septs, living in grottocs, and designated in consequence under the name of Troglodytes. They derive their origin from the Blemmyes, a nomed people of the environs of Axum, which the love of pillage drew towards Egypt [that is, in Roman times; Fhen Coptic annala recount the ravages as low as Egneh of the Bainn-Moui, "Eye-of-Lion," or Biemmyes. 20] The manners of the Bishari differ little from those of the A babdeh, with whom, wevertheless, they are ever at war. . . . . . Their larguage bes drawn nothing from the Arabic, and aeems to approach the Abyssinian and the Berber [i. e. Berberree.] Tbis people, truly indigenow to Africa, is cruel, avaricious, and vindictive; theoe dispositions are restrained by no law, human or divine." ${ }^{24}$

We copy (Fig. 120) one of Prisse's eugravings. It exhibits the perfect Bizhari, but differs too slightly from the Ababdeh characteriotics not to excmplify both tribes equally well.

Among Dr. Morton's papers we find the copy of a letter, addressed from the Isle of Phile; Sept. 15, 1844, by Chev. Lepsius, to our erudite countryman, the late John Pickering, of Boston. Being inedited, and mentioned only by one writer ${ }^{215}$ that we know of, we translate such passages as bear upon Nubian subjects, not merely for their intrinsic value, but in tribute to the memory of the profoundest native philologist that our country has

Fig. 120.
 hitherto produced.
"I have no need, certainly, to insist, as regards yourself, upon the high importance which linguistic researches always possess in ethnographical studies. I have not neglected, either, to study, to the extent that time permitted, the different tongues of the Soudan, whenever I could find individuals who were in a state to communicate anything about their own language, through the medium of Arabic. The three principal tongues which I have studied in this manner, and of which I now possesa the grammar and vocabulary, sufficiently complete to give an idea of their nature, are - the Nobinga, or Nouba, ordinarily known under the strango name of Berber, which is spoken in three different dialects in the valley of the Nile, from Assouàn to the southern frontier of the province of Dongola, as also in certain parts of Kordifal (this is the true pronunciation in lieu of Kordofan): 2d, The Kongara, or language of Dar-Four, a very extended speech of Negroes, of which until now even the name was unknown: 3d, The Begawfe, or the language of the Bichariba, who occupy the country west of the Nile from $23^{\circ}$ to $15^{\circ}$, and principally the fertile province of Taka. The most interesting among these three tongues is, without doubt, the third. The grammar causes it to be recognized without difficulty as appertaining to the great family of Caucasian languages, as I think I was the first to demonstrate of the Egyptian tongue (in 1835, by comparison of the pronouns; in 1836 by that of the names of number); and as known concerning the Abyssinian tongue. This fact alone proves that the primitive origin of all these people, of this eastern part of Africa, must have been in Asia. [We do not perceive why such deduction necessarily follows. "Caucasian" is a term that physiology must abandon, as a misnomer productive of confusion; but the above was penned in haste, nine years ago, and the erudite writer may since have seen occasion, as we have ourselves, to modify first impressions]. . . . Finally, this tongue becomes to us of a far higher importance, through the circumstance that I think I shall be able to prove that the same people, who now speak this tongue, formerly inhabited the Isle of Meroë; built the temples and the pyramids, of which we still there find the ruins. . . . The people who ruled then, in this great kingdom, called themselves Bega (Bedja); a name which is now entirely lost as the name of a people, but which originated the name of the tongue Begavie, of which I have spoken above. . . . One facilely perceives at once, by many well-preserved paintings, that the people who built the pyramids [of Meroë] were a red people, or, rather, very reddish [bien rougealtre], as might have been expected if they spoke veritably a Caucasian language. But
nothing presents itself to the most scrupulons investigations that could lead us io mapect that a single one of the monuments [of Meroei] might ascend higher than the first century after J.c. The greater part belong, without doubt, eveu to much later kimes; and me most place the moat tlourishing epoch of Merox tearly at the second or third of our era. And, not only upon the Isle of Meroë, hat in all Ethiopia, from one end to the other, there is not the slightest trace, I will not bay of a primitive civilization anterior to the Egyptian civilization, as has been dreamed, hat not even whatoover of an Ethiopian civilization, properly go called." ${ }^{246}$

These most scientific views of Chev. Lepsius were communicated to us long ago; and they have materially aided our endeavors to discriminate between the true and the false, the certain and the improbable, in Ethiopic problems; about which, we grieve to say, considerable mystification is still kept up between the Northern and the Southern States of our Federal Union, which a little reading might remove.

On the northern coast of Africa, between the Mediterranean and the Great Desert, ineluding Morocco, Algiers, Tunis, Tripoli, and Bengazi, there is a continuous system of highlands, which have heen included under the general term Atlas, anciently Atalantis, now the Barbary States. This immense tract, in very recent geological times, was once an Island, with the occan flowing over the whole of the Sahara; thus cutting off all land-communication between Barbary, on the Mediterranean, and the remote plateaux of Nigritin. Throughout Barbary wo encounter another peculiar group of races, subdivided into many tribes of various shades, now spread over a vast area, but which formerly had its principal, and probahly ahoriginal, abode, along the mountain-slopes of Atlas. The tribes have different appellatives in different districts: e.g., the Shillouhs, now a separate people, ${ }^{37}$ have been included under the general name of Berbers or Berebbers: but from the primitive Berbers the north of Africa seems to have derived the designation of Barbary or Berberia, "Land of the Berbers." To speak correctly, the real name of the Berbers proper is Mazirgh; with the article prefixed or suffixed, T-amazirgh, or Ama-zirgh-T: meaning, free, dominant, or "noble race." Their name, in Latin mouths, was softened into Masyes, Masiges, Mazici, \&c.; and in Grecian, into Ma乡uss, as far back as Herodotus (lib. iv. 191). These people have spoken a language unlike any other from time immemorial; and, although it has been a fruitful theme of discussion, yet no affinity can be established between its ancient words, stripped of Phenician and Arabic, and any Asiatic tonguc. We have every reason to feel persuaded that the Berbers existed in the remotest times, with all their essential moral and physical peculiaritics. In a Ford, the reader of Part II. of this work will see, that there exists no ground for rogarding them in any other light than as the autoc-
thones of Mount Atlas and its prolongations. The Berber was, probably, as Mr. W. B. Hodason (of Savannah - one of the highost authorities in Berber lore, ) remarks, the language which "Tyria Bilingua" was obliged to learn in addition to a Carthagivian mothertongue, the Punic or Phericinn speech. We know that this people, with their language stamped upon the native names of rivers, mountains, and localities, have existed apart for the last 2500 years; and inasmuch as Egypt, back to the time of Menes, barred their intercourse hy land with races on the eastern side of the Suez isthmus, there is every renson to belicve that the Berbers existed, at that remotedate, in the same state in which they were discovered hy Phenician navigators, previously to the foundation of Carthage. At the time of Leo Africanus, the Berber was the language of all Atlas. It bas remained so since, except where crowded out by Arabic. They are an indomitable nomadic pcople, who, since the introduction of camels, have penetrated, in considcrable numbers, into the Desert, and even as far as Nigritia. These Berbers are tbe Numidians and Mauritanians of classical writers, by the Romans termed "genus insuperabile bello;" and French Algeria can testify to the indelible bellicosities of the living race.

We gather from Shaf, that -


#### Abstract

"The tribes who speak this language have different names: those of the mountains belonging to Morocco are termed Shilloukhs; those who inhabit the plains of that empire, dwelling under tents, after the manner of Arahs, are named Berber; and those of the mountains belonging to Algiers and Tunis call thembelves Cabaylie, or Gobalion" [a deajgoation which is merely Qabdil, Arsbic for a "tribe," when not Gebdylee, "mountaineer."]


A fourth and prominent branch must be added to this division: viz., the Tharyk, who are now widely spread over the Sahara and its oases, and on both hanks of the Niger.

Mr. Hodason, long resident officially in the Barbary States, who has devoted much time, talent, and learaing, to this subject, seems to have settied the question, that all these Berber races (except such few as have adopted the Arabic) speak dialects of the same language. In consequence, it has heen assumed, by Prichard and others of the Unity-school, that they must all be of a common origin. But, while of this there is no evidence beyond a community of languages, the manifest diversity of physical characters would prove the contrary. Some of these clans are white; others black, with woolly hair; and there is no fact hetter established in ethnography, than that phyeical characters are far more persistent than unwritten tongues. The great mass of the Berber tribes have, in all likelihood, snbstantially preserved their physical as well as moral characters since their creation; although they have heen to some extent subjeeted to adulterations
of blood. The Phoenicians, Greeks, Romane, and Vandals, saccessively, founded colonies in the Barbary States: but they built and inhahited towns for commercial purposes - mixcd little socially with the people - never resided in the interior, and have disappeared from the scene, leaving nearly imperceptible traces behind them. Arabs have since overrun the country, but their numbers have been small, compared with the natives; and, except during and since Saracenic culture in the towns, they have generaily proserved their nomadic babits - keeping rauch aloof from the indigenous Barbaresques; and there is not merely no renson for thinking tbat Arabia bas exercised great influenco on the Berber type, but circumstances rather indicate Barbary's action over tbe Arab colonists. Tbe ruling tuition of the Arabs, the genial vitality of Islam, and the constant reading of the Koràn, have had the effect of spreading the Arabic language much faster and farther than Arabian blood. In some of the more civilized cities-Morocco, Fez, \&e.-Arabic is the only tongue apoken among the patrician Berbers; thus affording another evidence of the utter fallacy of arguments in favor of the identily of origin or consanguinity of races based solely upon community of language.

The Mohnmmedan in Africa, like the Cbristian religion elsewhere, is spreading its own languages over races of all colors: just as did Sbamanism, Budhism, or Judaism, in many parts of Asia, during ages past. Many Jews are scattered throughout Barbary, but especially in the empire of Morocco, where their number is estimated at 500,000 . Some black blood too has infiltrated from the South.

No little difference exists in descriptions of the physical characters of Barbary Moors (corruption of the Latin Mauri), no less than concerning the native tribes of Atlas now diffued over the Sahara. Prichard azys -

[^60]The influence of climate is here again boldly assumed by Pricbard, without one particle of evidence. What reason is there to suppose that climate influences Berbere, any more than it does Mongols, American Indians, or other raecs, who, each with their typical complexions, are spread over most latitudes? Moreover, the complexion of the Berbers docs not,.in very many cases at least, correspond witb climate. The same action, we presume, operates in Barbaresque locatities that seems to prevail in various parts of the earth; and which we have insisted upon in our general Remarks on Types. The Berber family, at present, appears to be made up of many tribes, presenting 6 sort of generic resemblance, but differing specifically, and possess-
ing physical characteristics that are original, and not amenable to climatic influences any more than thoso which denote the Jcw, the Tberian, or the Celt.

We submit a few examples of Atalantic physical characters, as described by various travellers. Jackson informs us, that -
*The men of Tamsens and Showiah are of a strong, robast make, and of a copper-color the women beantifal. . . . The women of Fez are fair as the European, but hair and eyes always dark. . . . The women of Mequinas are very beabtiful, and have the red and white complerion of English women."

## Rozet gives the annexed description of the Moors:-

"Il existe copendant excore un certain nombre de familles, qui n'ont point contractó d'alliances ayeo des étrangers, et chez legquelles on retroupe les caracteres de la race primitive. Les hommes sont d'one taille an dessas de la moyenne; lear démarche eat noble et grave; jls ont les cheveux noirs; la pean un peu basanee, mais plutôt blanche que brune; - le visage plein, mais les traite en sont moing hien prononcés que cenx des Arabes et des Berberes. Пs ont généralement le nez arrondi, la houche moyenne, les yeux tres ouverth, mais peu vifs; leurs muscles nont bien prononcés, et ila ont le corps plutost gros que maigre."

Spix and Martivs, the, well-known German travellers, depict them as follows:-
"A high forebead, an oral countenance, large, spesking bleok oyes, shaded by arched and strong eyebrows; a thin, rather long, bat not too pointed, nose; rather broad lips, meeting in an ecute angle; thick, smooth, and black hair on the head and in the beard; brownish-yellow eomplecion; s etrong neok, joined to a stature grester then the middle height, characterize tha netives of Northern Africa, as they are frequently seen in the streots of Gihraltar."
M. Rozet recounts, that-
"Tho Berbera or Kabyles of the Algerine territory are of middle statore; thoir complexion is brokn, and sometimes almost black (noirsire); bsir brown and arooth, rarely blond; they are lean, bat artramely robust and nervone, very well-formed, and with the eleganco of antique stataes; their beads more round than the Arebs'."

Lieutenant Wabhington declares -
"The Moors are generaly a fine-looking race of men, of middle statare, disposed to becorae corpulent; they have good teeth; conpletions of all shader, owing, as some heve supposed, to intermixture with Negroes, though the latter are not bafficiently numerous to sceount for the fact."

He describes the Shillouhs or Shilhas as having light complexions.
Prichard thus sums up his inquiries:-

- It seems, from these accounts, that the nations whose history we have traced in this chapter, preant all varieties of complexion; and these varistions appear, in some intances af leasf, to be stearly in relation to the temperature."

With all his inclination that way, however, it is evident that ne himself cannot make his own climatic theory fit.

Our rensoningy are based upon comparison of Barbaresque families diffused over a vast superficies - comprising tribes now more or less commingled, and in all social conditions, civic, agricultural, and nomadic. We may mention, although we exclude, as too local and
modern to he important out of towns on the seaboard, the combined iufluences of European captives, at Salee, Tangiers, Algiers, Tunis, Tripoli, Bengazi, and other privateering prineipalities; which circumstances, in the maritime cities, have blended every type of man that could be kidnapped around the Black Sea, Mediterranean, and Eastern Atlantic, by Barhary pirates. [As an illustration - Mr. Gliddon tells us, that, in 1830, just after the French conquest of Algiers, the hold of a Syrian hrig, in which he sailed from Alexandria to Sidon, was occupied hy one wealthy Algerine family, fleeing from Gallic heresies to Arabian Islàm, anywhere. Exclusive of servants and slaves, there were at least fifty adults and minors, under the control of a patriarchal grand or grent-grandfather. Of course, our informant saw none of the grown-up females unveiled; but, while the patriarch and some of the sons were of the purest white complexion, their various children presented every hue, and every physical diversity, from the ligheat Circassian to a Guinea-Negro. In this case, no Arabic interpreter being needed, it was found that each individual of the worthy corsair's family, unprejudiced in all things, save hatred towards Christendom in general and Frenchmen in particular, had merely chosen females irrespectively of eolor, race, or creed.-J.C.N.]

## Hodgson states -

[^61]Upon these various branches of a supposed common stock, there have been engrafted some shoots of foreign origin ; for, amidst a uniformity of language, there exist extraordinary differences of color and of physical traits-at the same time, are we sure of this alleged uniformity of speech itself? Now, we repeat, history affords no wellattested example of a language outliving a clearly-defined physical type; and, in a preceding chapter, we fully instanced how the Jews, scattered for 2000 yenrs over all climates of the earth, have adopted the language of every nation among whom they sojourn-thus affording one undeniahle proof of our assertion, not to mention many others one might drav from less historical races.

Mr. Hodgson is a strenuous advocate of an extrexae antiquity for the Berbers, or Libyans: -

[^62]of Egypt, prior to the historio or manamental ere, and before the Mixramites and their descendents, the Copts." 29

In our Part II., these skilfal inferences are singularly reconciled with the monuments and history, and from an altogether different point of view. When we remember how, in Hebrew personifications, Mizraim was the grandson of Noas, and how Lepsius traces the Egyptian Empire back nearly 4000 years before Christ, a claim of sucb antiquity for the Berbers is certainly a high one, although, according to our belief, not extravagant; for we regard the Berbers as a primitive type, and therefore as old as any men of our geological period. Hodgson confirms his statement, by abundant proofs, that " the grammatical structure of the Berber dialects is everywhere the same;" and, in allusion to the affinitiea among these languages, avers:-

[^63]With perfect propriety, our friend might have added the Chinese speech, which is equally pec⿱liar, and can be traced monumentally farther back than either the Arabic or the Berber-if not, certainly, so far as that ante-monumental tongue which is prototype of the Coptic. It seems to us, that no one can read Padthier's several works on Chinese history, language, and literature, without coinciding in this opinion; and every one can verify that the languages of America, according to Gallatin, Duponceat, and other qualified judges, are radically distinct from every tongue, ancient or modern, of tho Old Continent.

Our ethnological sweep over the African Continent, from the Cape of Good Hope northwards to the Nubias on the right hand, and to Barbary on the left, incomplete as it is 一wearisome, to many readers, as it may be-has brought us to the confines of Egypt. In that most ancient of historical lands we propose to halt, for a season; devoting the next chapter to its study. But, by way of succinct recapitnlation of some results we think the present chapter has elicited, we would inquire of the candid reader, whether, at the present moment, the buman races indigenous to Africa do not present themselves, on a map, so to say, in layers 9 Whether the most southern of its inhabitants, the Hottentots and Bughmen, are not the lowest types of humanity therein found? And lastly, whether, in the ratio of our progress towards the Mediterranean, passing succesaively through the Caffre, the Negro, and the Foolah populations, to the Abysejnian and Nubian races on the east, and to the Atalantic Berber
races on the west, we have not beheld the Types of Mankind rising, almost continuously, higher and higher in the scale of physical and intellectual gradations?

Such are the phenomens. Climate, most certainly, does not explain them; nor will any student of Natural History eustain that each type of man in Africa is not essentially homogeneous with the fauna and the flom of the special province wherein his species now dwells.

Two qnestione arise: -1st, Within human record, has it not alroays been thus? and 2d, Do the Egyptians, northernmost inhahitants of Africa, obey the same geographical law of physical, and consequently of mental and moral, progression?

Our succeeding chapters may suggest, to the reflective mind, some data through which both interrogatories can be answered.

## CHAPTER VII.

## EGYPTANDEGYPTIANB.

OUr sarvey of African races, вo far, has been rapid and imperfect, but still we hope it is sufficiently full to develop our iden of gradation in the inhabitants of that great continent. A more copione anslÿis would have aurpassed our limits, while becoming unnecessarily tedions to the reader. Prichard has devoted a goodly octavo of his "Phyrical History" to these races alone; whereas we can afford but a few pages.

We now approach Egypt, the last geographical link in African Ethnology. She has ever been regarded as the mother of arta and sciences; and, strange as it may seem, Science now appeals to her to settle questions in the Naturnl History of Man, mooted since the days of Herodotus, the father of our historians.

When we cast a retrospect through the long and dreary vista of years, which leads to the unknown epoch of Man's creation, in quest of a point of departure where we can obtain the first bistorical glimpse of a human being on our globe, the Archæologist is compelled to turn to the monuments of the Nile. The reoords of Indis cannot any longer be traced even to the time of Moses. Hebrew chronicles, beyond Ahraham, present no stand-point on whieh we can rely; whilst their highest pretension to antiquity falls short by 2000 years of the fonndation of the Egyptian Empire. The

Chinese, according to their own historians, do not carry their true bistoric period beyond 2637 years before Christ Nineveh and Babylon, monumentally speaking, are still more modern. But, Egypt's proud pyramids, if we are to believe the Champollion-school, elevate us at least 1000 years above every other nationality. And, what is more remarkable, when Egypt first presents herself to our view, she stands forth not in childhood, but with the maturity of manhood's age, arrayed in the time-worn habiliments of civilization. Her tombs, her temples, her pyramids, her manners, customs, and arts, all betoken a full-grown nation. The sculptures of the IVth dynasty, the carliest extant, show that the arts at that day, some 3500 b. c., had already arrived at a perfection little inferior to that of the XVIIIth dynasty, which, until the last five years, was regarded as her Augustan age.
Egyptian monuments, considered ethnologically, are not only inestimahle as presenting us two types of mankind at this early period, but they display other contemporary races equally marked - thus affording proof that humanity, in its infinite varieties, has existed much longer opon earth than we have been taught; and that physical causes have not, and cannot transform races from one type into another.

Among former objections against the antiquity of Egyptian monumenta, it has been urged, that such numerous centuries could not have elapsed with so little change in people, arts, customs, language, and other conditions. This adverse charge, however, does not in itself hold good, becanse the fixedness of civilization, or veneration for the customs of ancestors, seems to be an inherent characteristic of Eastern nations. Through the extensive portion of Egyptian history which is now known with sufficient certainty, we may admit a comparative adhesion to fixed formalm, and an indisposition to change: but no Egyptologist will deny that, during nearly 6000 years, for which monuments are extant, the developing mutations in Egyptian economy oheyed the same laws as in that of other races with this signal advantage in the former's favor, that we possess an almost unbroken chain of coetaneous recorde for each progressive step. Oriental history anteceding Christian ages (when viewed through the eye-glasses of pedagognes who rank among Carlyig's "doleful creatures,") looms monstrously, like a chaotic blur, precisely where archæology, using mere naked eyes, has long espied most luminous stratifications: and hnman developments, requiring "chiliads of years," even yet are popularly restricted to the action of one patriarchal lifetime. For ourselves, referring to the works of the hierologista for explanation, we would readily join isane with ohjectors upon the following heada:-

IVTE DYNASTY - п. 0. 8400 .

## Egyption developmente down to the <br> chrigtlan bra.

1st Laxajagi-Only 15 artionlations, ..... developed, in the Coptic, to 81 letters.
2d. Weuting - Hieroglyphics,................. then Hieratio, next Demotio, and lectly Coptic.
8d. Abobitiorual - Pyramide, ............... than temples with Doric, and lasly with every kind of column.
4th. Groanaphy - Egapt propar, .............. them, gradually, knowledgo at axtencive es that of the Erangelists.
$\left.\begin{array}{l}\text { 6th. Zoozoor-No horees, camels, or com- } \\ \text { mon fowle, }\end{array}\right\} \begin{aligned} & \text { then, every animel known to Aristolla. }\end{aligned}$
(ith. Ants - No eharioth,
..:...
then, all vehiales ganerally used by the ancients.
7th. Scinciss - No bitumemined mammies, . then, every form, with many kinde of foreign drags, to.
8th. Eftheoloar, Natien-1at Egyptinn type, then
2d. Egypto-Anistio,
8d. Exypto-Negroid.
Poraign - IVth dynanty - Arube.
XIIth dynasty - Arabiats, Libyous, NuSiond, Negroes.
XYIIth dynesty - Canaanites, Jetes, Phasicions, Aesyriones, Tartars, Hindoos, Thracians, Iomiase, Lуdiarn, Xibyart-Nubians, Abyarixian, Negroes.
And, thence to Oriental markind, sa known to the Greoks in Alexambre'b day.

We might extend this mnemonical list through many other departments of knowledge; but, until these positive instances of development be overthrown, let $u s$ hear no more fables about "stationary Egyptians."

It was, however, only through alien rule, introduced in later times by Persians, Greeks, Romans, Arabs, and Turka, that all old habits were uprooted. Look at Indis and China; which countries, according to popular superstitions, seem to have been stereotyped some three or four thousand years ago: yet, what enormous changes does not the historian behold in them! Nevertheless, every type is more or less tenacious of its habits; and we might cite how the Arabe, the Turks, and, still more, the Jews, now acattered throughout all nations of the earth, cling to the customs of their several ancestries: but, as we are merely suggeating a few topics for the reader's meditation, let us inquire, what was the type of that Ancient Egyptian race which linked Africs with Asia? This interrogatory has given rise to endless discussions, nor can it, even now, be regarded as absolutely answered. For many centuries prior to the present, as readers of RoLlin and of Volany may remember, the Egyptians were reputed to be Negroes, and Egyptian civilization was believed to have descended the Nile from Ethiopia! Champollion, Rosellini, and others, while nnanimous in ovorthrowing the former, to a great extent consecrated the latter of these errors, which could hardly be cousidered as fully refuted
until the appearance of Gliddon's Chapters on Ancient Egypt, in 1843, and of Morton's Crania Egyptiaca, in 1844. The following extract presents the first-named author's deductions:-
"The importance of confining history to its legitimate placa- to Lower Egypt-is erident:
ac 1at. Because it was in Lower Egypt that the Caucasian childran of Ham muat have Brat aeteled, on their arrival from Aein.
" 2 d . Becense the advoestes of the theary which would assert the $\Delta$ frican origin of the Egyptians atay that they rely chiefly on history for thair Afrioan, or Ethiopic, predilections.
" 8d. Beeause the same theorista assume, that we must begin with Africars, at the top of the Nile, and come downward with civilinstion; lnstead of commencing with Asiatien and White men, at the bottom, and oarrying it up.
"I have not a yet touched on athnogrephy, the effectio of aimate, and the antiquity of the differant races of the baman family; but I ahall come to those sobjects, after eatablishIng a chronologieal atandard, by defining the history of Egypt according to the hieroglyphica At presect, I intend merely to sketoh the ovents connected with the Caucseian children of Ham, the Asistic, on the firat eatabliahment of their Rgyptien monarchy, and the foundation of their firat and greatest metropolia in Lower Egypt.
"The Arrican theories are based upon no critical aramination of anrly history - are founded on no Scripturel anthority for early migrstions - are rupported by no monamental ovidence, or hieroglyphical data, and cannot be bonae out or admitted by practical common sanse. For oivilixation, that never came northoard oat of benjghted Africe, (hat from the Deluge to the present moment has been only partially carried into it - to sink into ntter oblivion among the barharons races whom Providence created to inbabit the Ethiopina and Nigritinn territories of that vast continent,) could not spring from Negroes, or from Berbert, and sever did
"Bo far, then, as the record, Scriptural, historical, and monumental, will afford us an Inalght into the early progrese of the human rece in Egypt, the moat ancient of all civilized countrica, we may safely aseert, that history, when anslysed by oommon sense - When ecrutinized by the appliestion of the experience bequeathed to us by our forefathers-when anbjected to a strictly impartial examinstion into, and comparison of, the physical and mental capabilities of nations - When distilled in the alembio of ohronology, and submitted to the touchstone of hieroglyphical tests, will not support that raperanousted, hut antanable, doctrine, that aivilintion originated in Ethiopia, and consequently among an African people, by whom it was brought down the Nile, to enilighten the less polished, therefore Enferior, Caucesian children of Noah, the Asiatice; or, that we, who trace back to Bgypt the origin of every art and acience known in antiqnity, bave to thank the esble Negro, or the dasky Berber, for the firat gleams of koowledge and invention.

We may therefore oonclnde with the obserration that, if civiliration, instead of going from North to South, came (contrary, se mbow bofore, to the annals of the earliest historians and ell monumental facts) down the "Sacred Nile," to illumide our darkness; and, If the Ethiopic origin of arts and sciences, with socisl, moral, and religions institutions, were in other respeote powible, these Afriesn theoretio conclasions wonld form $n$ most astounding exception to the ordinatlons of Providenee and the orgenic lave of natare, otherwise so underisting thronghoat all the generations of man's history.
"I have alraady gtaled that Sir J. Oardner Wilkinoon's eritical obeerrationt, during bie long resideace in Egypt, and hif compsrisons between the present Egyptians and the ancient moen as depicted in the monnments, had led bim to assert the driafic origin of the early inhebitants of the Nilotle valley. The learned bierologist, Samael Birch, Eaq., of the British Musonm, informed me, in London, that he had arrived at the name conolusionwhile to bis auggeation I am iadobted for the flrat idea 'that the most andent Egyptian monaments lie North.' The great naturatints, Blumenbech and Caviar, declerod,
that all the mummien they had opportunities of examining prenented the Caucsaian type. M. Jomard, the eminent bydrographer end profound Orientalist, in a paper on Egyptian othnology, sustains the Arabian, and consequently the Ariatic and Caveavian, origin of the early Egftians ; and bis opicions are more valusble, as be drawg his conclasions independenly of hieroglyphical discoveries. On the other band, Prof, Rosellinf, throughout his 'Afonumenti,' acoepta and continues the doetrine of the destant of oivilisation from Rthiopis, and the African origin of the Egyptians. Champollion-Figato aupports the same theory. which his illustrions brother set forth in the aketch of Egyptian history preaented by him to Mohammed-Ali, in 1829 (published in his 'Lollat from Egypt and Nubia'), whereid he derives the Ancient Egyptianh, secordiag to the Grecian anthorities, from Pthiopia, and considera them to belong to !la race Rarabra,' the Berbert or Nubians. Deeming the original Bardbra to have been an African race, eagrafted at the preseat day with Cacoasian as well as Negro hlood, I rejeot thim aimilitude to the monumental Eggptiana in toto, and am fais to helieve that Cbampollion-le-Jenne bimself had either modifled his previons bastly-formed opinion, or, at any rate, bad not taken a decided atand on this important point, from the followiag extract of his eloquent address from the academic chair, delivered May 10, 1831 : --C'est par l'analyoe raisonné de la languedes Pbaraons, que l'ethnographle decidera ei la vieille population egyptieqne fut d'origine Asiatipue, on bien ri clle deccondil, wrec le fieave divinicé, des platearax de l'Afrique centrale. On decidere en mêtme tomps si les Egyptiens n'appartenaient point a une rece distincte ; car, il taut le déclarer ici [in whiob I entirely agree with bim], contro l'opinion commane, les Coptes do l'Egypto moderne, regardé comme lea derniers rejetons dea anciens Egyptiens, n'out offert í mes year ni la coulour mi aucun dea tralta carectériatiques, dans los linéaments du visage ou dens les formes du corps, qui pat constater une aussi noble descendance.' " 20
[These views received considerable extension in Mr. Gliddon's Otia EEgyptiaca; ${ }^{\text {z1 }}$ and our colleague's enthusisstic concurrence in the work now put forth, in our joint names, sufficiently attests his adoption of our personal modifications, derived especially from Anatomy, compared with tho more recent hieroglyphical discoveries.-J. C. N.]

Others, bowever, though not so decidedly out-spoken in tone, had rejected African delusions. Thus, Pettigrew, ${ }^{24}$ following Blumenhach and Lawrence, had previously alluded to the probability of the ascent of civilization, introduced hy an Asiatic people, along the Nile, from north to south. De Brotonne, ${ }^{20}$ succeeded hy Jardot, ${ }^{\text {za }}$ ably sustained the Asiatic colonization of Egypt against the Nigritian hypothesis of Volney; ${ }^{2 s}$ and, a hundred years ago, the academician De Fourmont ${ }^{30}$ declared, "The Egyptians, for the three-fourths, issued either out of Arahia or Phoencicia; . . . Egypt heing composed of Chaldæan, Phonician, Arab people, \&c., hut especially of these last."
Morton, drawing from his vast resources in craniology, skilfully combined with history and such mouumenta as were deciphered in 1842, terminated his Crania Fggytiaca with the subjoined conclusions - the utterance of which commenced a new era in anthropological researches:-
"The Valley of the Nile, both in Egypt and Nobic, was originally peopled by a branch of the Cancasian race.
"These primeral peaple, since called the Egyptians, wert the Mizraimitas of Beriptare, the poaterity of Ham, and directiy affilated with the Libyan family of natione

## " The Austral-Begptan or Meroite communitien were an Indo-Arabinn atook, eogratted on the primitive Libyen inhabitants. <br> 4* Besides these exotic soorces of popatation, the Egeptian race was at different poriods modified by the inflax of the Camondan nations of Asian and Europe: Pelasgi, or Hellenes, Sopytbianh, and Phonnioinos <br> " The Cople, in part at lenot, ere a mixture of the Canoseling and the Negro, in extremely variable proportions. <br> "s Negroes were namerons in Bgypt, bat their social position in ancient times was the eame an it now is: that of serrents and alaves <br> *The present Follahs aro the lineal and lenst mixed desoendanth of the Ancient Egyptiana; and the lattar aro collatorilly represented by the Tuariks, Kabyleg, Siwnhe, and ather remaing of the Libyan family of nations. <br> "The modern Nabians, with a few exceptions, are not the descendnats of the monumeental Ethioplans, but a variously mixod race of Arsbs and Negroes. <br> "The physical or organic ollerecters which distiogrish the sevaral races of men aro is

 old as the oldest records of our species"Such were the best and most nataral results of ethnography prior to Lepsiug's unanticipated exhumations at Memphis, in 1842-'3; but the latter's discoveries did not become accessible to the authors' joint studies until 1850. We can now assert, with the plates of his splendid Denkmäler before us, that, notwitbstanding the labors of our predeceasors, they bave left many doubta and difficulties still hanging around the primitive inhabitants of Egypt. Not only her written traditions, but ber monumental history, as far back as it has been traced, prove that, from the Menaic fopndation of the Empire, ahe had been engaged in constant strifes witb foreign nations of types very different from that of her own aboriginal population, and that she has been often conquered and temporarily ruled by foreigners. Heuce the consequence, prima facie, that the blood of ber primitive inhabitants must have become greatly adulterated.

Morton's Crania Egyptiaca issued in 1844; at which day the discoveries of Lepsius were in progress, but not published; at the same time that the works of Rosellini, Champoliion, Wilkinson, \&c.-then the best sources of information respecting the monaments - did not extend, with the exception of some meagre materials of the XIIth dynasty (by all three acholars thon supposed to be the XVIth), beyond the XVIIth, or about 1600 в.c. All these complicated data were, nevertheless, most admirably worked up by our revered friend; and be showed conclusively that, while there existed a pervading "Caucasian" Type, which be regarded as the Egyptian proper, tbe population already, at the XVIIth dynasty, was a very mixed one, comprising many diverse Asiatic and African elements.

Did arehrological science now solely rely, as before Champollion's day, upon the eoncurrent testimony. of early Greek writers, we should he compelled to conclude tbat the Egyptians, previously to the Christian era, were literally Negroes; so widely do such Greeo-Roman de-
scriptions vary, and so strangely in their writings do Egyptian attributes diverge, from tbe Caucasian type. A passage in Herodotus has been often cited; and it possessed the more weight, inasmach as he travelled in Egypt; and because his authority is generally reliable in such matters as fell beneath his personal observation. Of the people of Colchis he says, that they were a colony of Egyptians; supporting his assertion, unique among ancient authorities, by tbe argument that they were "black in complexion and woolly-haired." ar
Pindar also, copying the Halicarnassian, in his fourth Pythian Ode, speaks of the Colchians as black. In another passage, when retailing the fable of the Dodonian Oracle, Herodotus again alludes to the swarthy complexion of the Egyptians, as if it were exceedingly dark, or even hlack. Escirylus, in the Supplices, mentions the crew of an Egyptian hark seen from the shore. The person who eqpies them concludes they must be Egyptians from their black complexion:

> "The sailors too I marked,
> Conepicuous in white robes their sable limbs."

Prichard has collected ample Greek and Latin testimony, of similar import, to show that the Egyptians were dark. His erudition renders any further ransacking of the Classics here supererogatory: but we may remark that the Greek terme might often apply with equal propriety to a jet-black Negro, or to a brown or duaky Nubian. The varions names given to Egypt and her people, together with the mistakes of translators, are, however, analyzed in our Part $\Pi$., where we treat upon "Mizraim;" and therefore a pause to discuss them now would be superfluous.

Prichard sums up in the following strong language:-
"From comparing these accounts, some of which were written by persons who had trat volled in Bgypt, and whose testimony is not Ukely to have beon blasesd in any respect, wo must conclude that the subjects of the Phartohs had something in their pkysical charatar opprozinating to that of the Negro."
In opposition to which classical opinions, Brev, in a paper "On the Complexion of the Ancient Egyptians," ${ }^{2 \pi}$ had set forth : -
1st. The negative teatimony of the Hehrew Scriptures - how Joserp's hrethren, when they first saw him in Egypt, supposed him to be an Egyptian: ${ }^{30}$ how alliances with the Egyptians were permitted by the Israelitish lawgiver: ${ }^{20}$ how an Egyptian woman was the mother of the heads of two of the tribes of Israel: minother the wife of Solomon, \&c.:

2d. That "a description given by Lucian, in one of his Dialogues, ('Navigium, seu Vota,') of a young aailor on board an Egyptian vessel, who, besides beiag black, is represented as having pouting lips '
and apindle-shanks" - rather proves an exception to the usual tint of the Egyptian people:

3d. The incontrovertible evidence of the paintings, and mummycases.

We place these discussions of the learned in juxta-position ; although new facts supersede the necessity for recurring to past disputations.

That the skins of Egyptians, in Grecian times, were much darker than those of Greeks and other white races aronnd the Archipelago, there can be no question; nor that this complexion was accompanied sometimes with curly or frizzled hair, tumid lips, slender limbs, amall heads, with receding foreheads and chins, which, by contrast, excited the wonder or derision of the fair-skinned Hellenes. But, while it must be conceded that Negroes, at no time within the reach even of monumental history, have inhabited any part of Egypt, save as captives; it may, on the other hand, be equally true, that the ancient Egyptians did present a type intermediate between other African and Asiatic races; and, should such be proved to have been the case, the antocthones of Egypt must cease to be designated by the misnomer of "Caucasian."

Whatever the complexion of the real Egyptians may have been, all suthorities agree that the races south of Egypt were and are darker; and it is equally clear that the local hahitats of Negroes in early times, having ever been the same as they are now, render it geographically impossible that Egyptiana could be confounded with distinct types of men, never voluntarily resident within 1200 miles of the Mediterranean.

The Egyptians, on their oldest monuments, alwayg painted their - males in red and their females in yellow; thus adopting in their painted sculptures, (in order to demarcate themselves from foreign nations around them,) colors which, of course, were conventional. That there was considerahle diversity of color among the denizens of Egypt need not he doubted, inasmuch as we now find parallel diversity of hnes among Berhers, Abyssinians, Nubians, \&c. The "Ethiopians" were always darker than the Egyptians proper, as their Greek name (adu, burm, and 4, face) of "sun-burned faces" implies. In the Ptolemaic papyrus published by Young, ${ }^{23}$ and cited hy Morton, one of the parties to a sale of land, Psammoutars, is descrihed as being of a dark, while the four others are stated to possess sallow, complexions. Rosellini supposes the Egyptians to have heen of a brown or reddish brown color (roseo-fosco) like the present inbabitants of Nubia; but Morton thinks this remark applicable only to Austral Egyptians, and not to tho inhabitants of Egypt proper, except when arising from intermixture of races.

In the Crania Rggytiaca, Dr. Morton had laid much atress upon an observation of Ammianus Marcellinus, quoting buta line. Among his inedited MSS. for an improved edition of that work, we find the whole citation as he intended that it ehould appear :-

But, as the Doctor critically notices, it is difficult to aseociate the idea of a black skin with the fact related by the same writer, that the Egyptians "blush and grow red."
Investigation of this point, in 1844, impressed upon our judicions ethnographer's mind, results which he defines as follows:-
"From the preceding faots, and many others which might be adduced, I think we may safely eonclude that the complexion of the Egyptiana did not difer from that of the other Csucasian races, in the same latitudes. That, while the higher classes, who were sereened from the action of the aun, were fair, in a comparative sense, the middle and lower olessen, like the modern Berbers, Arabs, and Moors, preaented various shades of complexion, even wo dark bed awarthy tint, which the Greeks regarded as black, in oomparian with thair own."

So much contradiction is patent in the opinions of the early Greek writers, with regard to the complexion and physical characters of the Egyptians, and the dubiousness has heen increased to such an inextricable extent by the opposing scholasticisms of modern historians, yoked with the "first impressions" of unscientific touriste, that the only inference'we can attain is, that the Egyptians of the New Empire that is, from the XVIth dynasty downwards-were a mixed population; presenting considerable varieties of color and conformation. Morton took the whole question out of the hands of the Greeks and their subscquent copyists, when he appealed directly to the iconography of the sculptures, and to the mammicd remains of the old population found in the catacombs. Before pursuing, therefore, the monumental history of the Egyption type into the earliest times, let us endeavor to see what were its physical characters subsequently to the Restoration in the seventeenth century $\mathrm{b} . \mathrm{c}$; and afterwards we can better compare them with the pictorial and embalmed vestiges of earlier date.

Although it will be shown that Dr. Morton, since the publication of his Crania EEgyptiaca, had made important modifications in some of his opinious, there are othere which have withstood triumphantly the test of time. When ho puhlished in 1844, his ohject was to describe and figure the people of Egypt as they appear on the monuments and exist in the scpulchres. Whatever the physical type of the anterior population may have heen, previously to the date of his
materials, had nothing to do with the task proposed. He was dealing exclusively with known facts, and we cannot but admire the sagacity with which, for the first time in Egyptian ethnology, Morton brought order out of a chaos - universally seen among authors prior to 1844. Considering that he had before him but a few monuments of the XIIth dynasty (in his day called the XVIIth of Manetho), and nothing of earlier date, his analysis of these, and of the XVIIIth and succeeding dynasties, must remain an imperishable attestation to his genius.

In order to institute comparisons between the population of these later dynasties with that upon the sculptures of the Old Empire, since discovered, extracts at length from the Crania Agyptiaca will place before the reader the ideas of our great craniologist, together with abundant exemplifications of the type of man prevalent in'Egypt during the New Empire.
"The monuments from Meroë to Memphis, present a pervading type of physiognomy,
which is everywhere distinguished at a glance from the varied forms which not unfrequently
attend it, and which possess so much nationality, both in outline and expression, as to give
it the highest importance in Nilotic ethnography. We may repeat that it consists in an
upward elongation of the head, with a receding forehead, delicate features, but rather sharp
and prominent face, in which a long and straight or gently aquiline nose forms a principal
feature. The eye is sometimes oblique, the chin short and retracted, the lips rather tumid,
and the hair, whenever it is represented, long and flowing.
"This style of features pertains to every class, kings, priests and people, and oan be
readily traced through every period of monumental decoration, from the early Pharaohs
down to the Greek and Roman dynasties. Among the most ancient, and at the same time
most characteristic examples, are the heads of Amunoph the Second and his mother, as
represented in a tomb at Thebes, 283 which dates, in Rosellini's chronology, 1727 years
before our era. In these effigies all the features are strictly Egyptian, and how strikingly
do they correspond with those of many of the embalmed heads from the Theban catacombs !
Fia. 121.
Fig. 122.

" A similar physiognomy preponderates among the royal Egyptian personages of every epoch, as will be manifest to any one who will turn over the pages of Champollion and Rosellini. The head of Horus [see our Fig. 56] is an admirable illustration, while in the portraits of Rameses IV., [III., of Lepsius] and Rameses IX., the same lines are apparent, though much less strongly marked. How admirably also are they seen in the subjoined juvenile head, (Fig. 128) whioh is that of a royal prince, copied from the very ancient paintings in the tomb of Pehrai, at Eletheias. 285 So also in the face of Rameses VII. (Fig. 124), who lived perhaps one thousand years later in time.

Fig. 128.


Fra. 124.

"I observe that the priests almost invariably present this physiognomy, and, in accordance with the usage of their caste, have the head closely shaven. When colored they are red, like the other Egyptians. The subjoined drawing (Fig. 125), which is somewhat harsh in outline, is from the portico of one of the pyramids of Meroë, 265 and is probably one of the oldest human effigies in Nubia. They abound in all the temples of that country, and especially at Semneh, Dakkeh, Soleb Gebel-Berkel, and Messoura. 206
" From the numberless examples of similar conformation, I select another of a priest from the bas-relief at Thebes, which is remarkable for delicacy of outline and pleasing serenity of expression. ${ }^{267}$ (Fig. 126).
"So invariably are these characters allotted to the sacerdotal caste, that we readily detect them in the two priests who, by some unexplained contingency, become kings in the XXth dynasty. Their names read Amensi-Hrai-Pehor and Phisham on the monuments; and the accompanying outline is a fac-simile of Rosellini's portrait of the latter personage, who lived about 1100 years before the Christian ora. 288 In this head the Egyptian and Pelasgic characters appear to be blended, but the former preponderate. (Fig. 127).
"The last outline (Fig. 128) represents a modification of the same type, that of the Harper in Bruce's tomb at Thebes. The beautiful form of the head and the intellectual character of the face, may be compared with similar efforts of Grecian art. It dates with Rameses IV. ${ }^{200}$

Fig. 125.


Fig. 126.


Fra. 127.


Fia. 128

"As I bellove this to be a most important ethnograpio indication, and ant which points to the rast body of the Egeptan people, I subjoin forr additional heads of prieste (Figs. 129, 180, 181, 132, ) from a tomb at Thebes of the XVIIIth dyassty. Fe are forchbly impressed with the delicate features and oblique oye of the left-hand personage, and with the ruder but charactaristio outline of the other fgares, in whioh the prominent feoe, though


Fia. 129.


Fio. 180.


Fia 181.
Fia. 182.

"The mnered ontlines (Fig. 188), which preeent more pleasing examplen of the same othnographic oherecter, are copied from the tomb of Titl, it Thebes, and dete with the remote ers of Thotmes IV. 77 They reprement five foomers in the sot of draviog their net over a flock of birds The long, fowing hatr in in keeping with the focial tralta, whoh letter are alno well oharacteried in the natojned dretringe (Figs. 184, 185, 186, 187), dartved trom monuments of different epochs and loondies.

Pic.. 188.


Fro. 184


Fig. 186.


Fig. 186.


Fi. 187.

"Fig. 184 is the head of a weater, from the peintings in the very ancient tomb of Rot and Menoph at Beni-Hasean, whertin the same alit of countenance la reiterated pithoat number, 72
"Pig. 185, s wine-prener, is also from Boni-Hassen, and detes with Oworteson, more then 2000 years before the Chriatien era. 7 T
" Fig. 186 is aseosk, who, in the tomb of Remeses IV, at Thebes, is represented with many others in the cotive duties of hie rocation. 74
"Fig. 187. I hare selected this head as an exaggerated or caricatured illustration of the same type of physiogromy. . It in one of the goat-Andr painted in the tomb of Boti, at Beni-Haranan. 73
"The most recent of these lent four venerable monumonts of at distes at least 1450 years before our ers: the oldest belongs to onehronicled times; and the same physical characters are common on the Nabian and Egyptian monamente down to the Prolemaio and Bomen epocha
"The peeuliar head-drese of the EgJptians often grestly modifies, and in some degree cancaala, their charactaristic fentures; and may, at firat sight, load to the impresrion that tho priests posaessed a physiognomy of a distinct or peeuliar kind. Buah, however, wes not the case, as a little obsertation will prove. Take, for example, the fonr following draw-

ings, from a Theban tomb, in whioh two mourners (Fig. 188) have head-dreasen, and two priesta (Fig. 189) are withant them. Are not tho national elamoterfatics anequivocally menifeat in them all ?" 2T8

Such, textually, are Morton's words, with the sole exception that, while preserving his references, we have substituted our own numerals: but, for the exprese object of removing, ouce for all, corrent impressions of Egyptian affinity with Negro races, we intercalate a relevant series of illustrationa, and group into one page various hads from the Cha nia Regyptiaca - five of which (Figs. 140-144) appertain to females of different classes, and two (Figs. 145 and 146) to males; indicating underneath each the vocations in which they are severally represented on the monuments. Apart from their facial angles and high-caste configuration, it is their long hair to wbich the attention of Negrophilism is more particularly invited.

Pra. 140.


Fra. 142.


A Ledy coifis.

Fig. 148.


Fr. 14s.


Fia. 141.

Fra. 144.


Fia. 146.



#### Abstract

"It is thas that we trace this pecoliar style of counteanos, in its sevaral moditicntions, through epochs and in locallties the most remote from each other, and in every clase of the Egyption people. How different frotn the Pelesgio type, yet how obrionsly Canoasian! How varied in outline, get how resdily identifed I And, if we compare these festurea with those of the Egpptinn sordes of pmbelmed haede, aro wo not forably improsed with a atriking analogy not only in osteological conformation, bat almo in the very expression of the face ? . . . No one, I cotroive, will question the analogy I have pointed ont This type is certainly national, end presents to our view the gesuine Egyptian physiognomy, which, in the ethnogrephio tosele, is intermedisto between the Paleggio und Bemitic farms. We may add, that this conformation if the anme whiah Prof. Blumosbech refert to the Fiedoo variety, in his triple clagaifeation of the Egyptian people. ${ }^{77}$ And this leade un briefly to inquire, who were the Egyptians?"


That this "genuine Egyptian physiognomy" was the preponderant type, seen throughout the whole monumental period known to Morton, cannot be questioned; but we do not think it is so universal in the royal families as in the other ciasses. There is such a want of portraits and other information of the dynasties between the XIIth and XVIth, that we know little or nothing of the predominant type of thase intermediate times. But it is highly probable, owing to Hyksos traditions, that the royal families of that period, called the "Middle Empire," were in great part Asiatics; and we are certain that, after the Restoration, marriages with foreigners were not uncommon. Alliances of this kind occurred in the XXth and preceding dynasties; and it is but reasonable to conclude that such had heen the custom of the country in earlier times; inasmuch as the Bible has helped us to prove the same habits respecting Jewioh amalgamations with denizens of the Nile.

In order that the reader may be enabled to judge for himself of the characteristics of the royal families, we have already exhibited some of their portraits, back to the XV川th dynasty. It is evident to us , that these portraite do not fully correspond to Dr. Morton's Egyptian Type, but that, on the contrary, they are eminently Asiatic, and not African. However, it cannot be denied that the pervading type, throughout Egypt proper, was the one described by him; though we are not prepared to admit this as the then-cgmmon type in the Nubias, or so high up as Meroë. The monuments of Meroë, on which his opinions were based, have since been discovered to be mere bastard and modern copies of those of Egypt. This conntry, until the eighth century b. c., formed part of the Egyptian Empire; and its later edifices were built by consecutively ruling races - Egypto-Meroïte, then Nubian, and lastly Negro-Nubian. Bat we have abundant reason for opining that the populations of the Nubias in ancient times, were what (Arab elements deducted) they are now : viz., types intermediate between Negroes and Egyptians; viewing the latter such as we behold them at the XVIIth dynasty, or about 1500 в. c.

We read the Crania Rgyptiaea, with intense intercst, so soon as it mas published; and, down to the time when Lepsius's plates of the IVth, Vth, and VIth dynnsties appeared, we had not ceased to regard Marton's Egyptian type as the true representative of that of the Old Empire ; hut the first hour's glance over those magnificent delineations of the primeval inhabitants produced an entire revolution in the authors' opinions, and enforced the conviction that the Egyptians of the earliest times did not correspond with our honored friend's description, but with a type which, although not Negro, nor akin to any Negroes, was strictly African - a type, in fact, that supplied the long-sought-for link between African and Asintic races.

There are no portraits, yet discovered, older than the IVth dynasty, or the thirty-fifth century b. c.; and although what may be called a Negroid type preponderates at that period, yet the race, even there, is already a mixed one; and we distinguish many heads which are clearly Asiatic - possessing, as we have shown (ante, Figs. 34, 35), Semitiah features. The history of Egypt from the XIIth to the XVIth dynasty is so mutilated, that, for this interregnum, there is but little material for definite opinions. Lepsius, upon Manethonian tradition, states, that during this time the bulk of native Egyptians were driven up the Nile by Asiatie races, and retired into Nuhia; and that when the Hyksos were expelied, their Pharaonic conquerors came down the river. It is not probable that every individual of the Hyksos race, however, could bave been driven out; and when we compare the monumental portraits of the IVth, Vth, and VIth dynasties with those of the XVIIth and XVIIth, we cannot doubt that an immense amount of Asiatic hlood remained in tbe country, notwithstanding these expulsions. Lepsius considers that those Asiatic Shepherds impressed their type and langunge upon the native race, although the Egyptian people and their tongue atill remained easentially African. It should he ohserved that, if Hyksos invasions be accepted as historical, so must the many centurics of the intruders' sojourn ; and during Lanetio's five bundred and cleven years, or sixteen generations, these warriors must have found abundant leisure to stamp their pateruity upon the offspring of Egyptian women, whose sentiments of chastity have never been other than somewhat lax.

But the Negroid type of the earlier dynastics seems never to have become extinguished, notwithstauding the immense influx of Asiatics into Egypt; which bas been going on, litcrally for thousands of years, to the present hour. It may le received, in ecience, as a settled fuct, that where two races are thrown together and blended, the type of the najor number must prevail over that of the lesser; and, in tina the latter will become effaced. This law, too, acts with greater force
where a foreign is attempted to be engrafted upon a native type aboriginally suited to the local climate. The Fellahs of Upper and Middle Egypt, at the present day, continue to be an unmistakeable race, and are regarded by most travelled anthorities as the best living representatives of the ancient population of Egypt. [Mr. Gliddon, resident in Egypt for more than twenty years, may certainly be accepted as competent authority respecting the physical characteristics of the present inhabitants, whose idioms and customs in all their.ramifications have been familiar to him from boyhood. He assures us, that the predominant type of the modern Fellah, i. e., peasant (deducting Arab blood), is just as identical with the majority of portraits on the earliest monuments, as Morton concluded by comparing the crania of ancient mummies with Fellah-skulls from the present cemeteries. To render the latter point obvious, we subjoin, from the Crania Exgyptiaca, an authentic series of both. The practised eye of the anatomist will at once recognize the similitudes between the ancient and the modern heads, and detect in these last the osteological divergences produced by Arab infiltrations : -

Fig. 147.


Axcimer Cranta, "from the front of Northern Brick Pyramid of Dashour."

Fig. 148.


A-hima Crarita, from Thebes; by Morton termed "Negroid Heads," whereas to us they yield rather the Old Egyptian type.

Fig. 149.


Modern Sxulls - "the Fellahs," of Lower Egypt,

Fia. 150.


Modirn Skolls - "the Arabs;" Bedawocesof the Isthmus of Sues.

Fig. 151.


Modere Sxulls - " the Copts;" from their Christian cometeries.

With these positive data before him, the reader will be the better able to follow our general argument. -J. C.N.]

But we have not yet done with the Egyptian Type as understood by Morton; which, although without question popularly prevalent upder the New Empire, was not, we think, the predominant type of
the royal families. This last, to our eyes, as portrayed in Rosellini's Jconography, is clearly $\Delta$ siatic : and not only Asiatic, but Semitic; and not merely Semitic, but strongly $\Lambda$ l,mhamic, or, to repeat our adopted term, Chaldaie. From the XIIth to the XVIIth dynasty (a period of some 511 years, according to Manctho, in Josephus), Egypt must have been subjected to extraordinary distnrhing causes, which, however terrible to her denizens, to us, at the present day, are shrouded by darkness, and as if circumscribed within a moment of time. Ample evidence is now exhumed of the minuteness and fidelity with which the Egyptians, before and after the Hykeos-period, recorded events and delineated the physical characters of their own people, as well as of the forcigners with whom they held intercourse; but during this hiatus our monuments are comparatively few, and sculptured portraits, to guide the ethnographer, are wanting. The XVIIth dynasty (about 1761 в. c., necerding to Lepsius) opens to fiew with a completeness and splendor truly astounding; and from this point downward, for more than 1000 years, (we cannot too often insist upon with general readers, there are ample materials for studying the natural history as well of Asiatic as of African humanity. In the magnificent plates of Rosellini, faithful representations of these painted sculptures are preserved; and in order that the reader might judge of the quantity of materials and the correctness of our deductions, we selected (ante, pp. 145-150) a copious series of the Royal Portraits of the XVIth and XVIIth dynasties. We have also illustrated how the same physical characteristica prevail, in profusion, down to the XXVth dynasty, when the so-called Ethiopian sovercigns come in for a brief scason, to change a dynastic family, hut not the national type. ${ }^{278}$

In the absence of parallel history (the "Middle Empire," or Hyksosperiod, scparating us from the XIth dynasty), nothing remains beyoud genealogical tablets and papyri to guide us, as to the ancestral origin of Pharaonic families of the New Empire, except their physical type, depicted or carved upon cocval monuments. There is a family-contour about them all, which at once indicates to the observer that they were of high "Caucasian" caste, with but little African of any grade, except what was derived from Old Fgyptian lineage.

Having enlarged sufficiently upon the Egyptian race, as portraged upon the sculptures of the New Empire, coetaneously with the times of Abraham, Moses, Solomon, and Josiah; (or, from about sixteen centuries before our era down to the apogee of Assyria'a glory); none can now douht that Pharaonic Egypt, at least among royalty, nohitity, and gentry, exhibited in those geuerations a very mixed type, wherein Asiatin elements predominated over the Nilotic. Let us nest take a
retrogressive leap, over the Hyksoz-period, from the XVIth to the XIIth dynasty, and inquire, What was the type of Egyptians under the Old Empire - that is, backwards, from about the twentieth century before Christ? But before doing so, fairness renders it incumbent on the part of one of the authors [G. R. G.], whose province it is to superintend "Types of Mankind" as it passes through the press, to give place to some general observations of his absent colleaguc. The former, immediately in contact with their lamented friend, Dr. Morrov, at Philadelphia, until within a few weeks of his demise in 1851, naturally became more conversant with the great ethnographer's matured views; whereas Dr. Nott's residence at Mohile restricted his studies within his own resources: so that what of merit and originality may attach to the following analysis of the Old Egyptian type, belongs to his individual ratiocinations.
[On the publication of Dr. Morton's Crania Aefyptiaca, we studied it carcfully, and compared it, step by step, with the works of Champollion and Rosellini. No other conclusion than the one adopted by him, viz., that the physical traits which he had assumed as characteristic of the Egyptians were really and truly typical of the first settlers of Egypt, resulted from our researches; but, after beveral years, the Denkmäler of Lepsius, (the first livraisons of which reached us ahout two years ago, essentially modificd our former conclusions. Examination of these plates, and a more thorough investigation of the suhject, have satisficd us, that the Egyptian type as known in 1844 to Morton, existed no longer in its pristine purity, bnt, after the XIIth dynasty, was absolutcly an amalgara of forciga (chiefly Asiatic) stocks, engrafted on an antccedent and ahoriginal African type; that the latter, although not Negro, wns Nilotic ; and that it constituted the true connecting grade hetween African and Asiatic races. When Mr. Gliddon and the writer again met, at Mohile, above eighteen months ago, after five years' scparation, we mentioned this conclusion to him; and he placed in our hands various letters, received hy him hetween the jears 1846 and 1851, from Morton; through which it became evident that the Doctor himself had also so far changed his opinions as to feel assured that the primordinl Egyptinns were not an Asiatic, hut an aboriginal population, indigenous to the Nile-land, although he says nothing of their primitive Negroid type: the ultimatum which our personal researches had then attained. We afterwards wrote to Chevalier Lepsius, informing him of the impression his Old Egyptian portraits had left on our mind, and were much gratified to Jearn, from his reply, that our new convictions accorded with his own. A very obliging letter also, from Mr. Birch, eunbles us to add his valid
authority to arguments hereinafter presented, without, in either case, infringing upon the sanctity of private correspondence. -J. C. N.]

Although Dr. Morton had insisted strongly upon his conventional Egyptian type, nevertheless, a critical perusal of his work will show that, even in 1844, he felt by no means certain es to its Asiatic origin - glimmerings of the light that was ere long to break through "Egyptian darkness" already dawning apon the mind of oar acute anthropologist. In the Crania, he eays:-

[^64]In further support of the common origin of the Egyptians, Berbers, and other tribes of Northern Africa, Morton refers to evidences furnished by Ritter, Heeren, Shaler, Hodgson, \&c. - showing how " the Libyan or Berber speech was once the language of all Northern Africa," and infinitely more ancient than the Coptic - probably as old as the monumental language of Egypt's pyramidal period.
[For tbe sake of perspicuity, and to convey to the reader some idea of the chronological order of linguistic developmenta in Egypt, it may be well to mention, that the name Coptic (i.e. Christian Jacobite) represente the vernacular Egyptian from the seventh century after Christ back to about the Christian era; that Demotic, or Enchorial, refers to the colloquial idiom thence used backwards to the seventh centary b. c.; that Hieratic, or Sacerdotal, meana only the cursive character in which the "lingua sancta" of the old hieroglyphice was written, in every age, back to at least the VIth dynasty, or 2800 years b. c. ; and finally, that the hieroglyphics, "sacred aculptured characters," represent that antique tongue which was the apeech of Egypt when, long prior to the pyramids of the IVth dynasty (that is, centariea anterior to 3500 years в. c.) phonetic hieroglyphs aucceeded an earlier picturewriting. With the reservation that where our Anglo-Saxon tongue counts centaries, the language of Egypt reckons ap its thousands of years, if we were to call the Engliah of Thackeray, Bulwer, and Irving, "Coptic" - that of the forty-seven translatore of King James's Ver sion, "Demotic" - that of Chaucer, "Hieratic," and that of the old Doom's-day Book, "Hieroglyphic," we should perceive, in modern English, some of the linguistic gradations and some phases in the writ-
ings of Egypt during 4000 monumental years, down to the introduction of Christianity into the Valley of the Nile. ${ }^{77}$ Consequently, all philologers who, when comparing Coptic with Atalantic Berber dialects, imagined they were dealing with ancient Egyptian lexicography, have committed, ipoo facto, a wondrous anachronism; and science must eet their futile labors respectfully aside- L thins's inclusive. G. R. G.]

We most remark, in passing, that Dr. Morton's mind had not yet freed itself from the old, arhitrary, divisions of races, and that he here attempted to force into one common stock many African races which in thernselves merely constitute a group of proximate, but quite diatinct, types. But, it is interesting to observe the change gradually working in a brain so eminently reflective, as new archeological facts offered themselves to its well-disciplined scrutiny; nor can we adequately express our admiration at the simple-hearted honesty with which Morton sacrificed many hard-enrued opinions, in the ratio that the field of Egyptian science widened before his contemplation. We derive extreme pleasure in offering some instances.

On the 26th of February, 1846, but two yeara after his Chania Fgyptiaca had appeared, in a letter to Gliddon at Paris, he thus uttere thoughts which it seeme had been half-formed for years previously, though proofs were yet wanting to mould them into definitive shape:-

[^65]This gleam of light received expression long previously to the pub lication of any of the pictorial results of Lepsius's Expedition. To our view, Morton here struck the true key to the type of the Egyptisn population of the New Empire. They were then already a mixed race, derived from Asiatic superpositions apon the aboriginal people of the lower Nile. From the dawn of monumental history, which antedates all chronicles, sacred or profane, we see the whole hasin of the Nile, together with that part of Africa lying north of the Sabara, inhabited hy races unlike Asiatics, and equally unlike Negroes: but forning in anthropology a connecting link, and, geographically, another gradation. To say nothing of Egyptians proper, such wery and are the Nubians, the Abyseinians, the Gallas, the Bardbra, no less than the whole native population of the Barbary States; which last, in those ancient days, were absolutely cut off, through want of eamela, from communication with Nigritia athwart the Saharan wastes,

About the time the preceding letter was penned, Dr. Morton was in correspondence with a very distinguished asaan in Paris - our mutual friend, M. le Dr. Boudin, latterly Médecin en chef de l'arnée des Alpes - who proposed to translate and republish the Crania Elgyptiaca. The work was to bo rewritten; and we have before us its MS. emendations for a second edition. Writing to Gliddon, then in London, in May, 1846, Morton holds the following language : -
"In this work I imaintain, without reservation, the following smong other opiaions-that the buman race has not sprang from one pair, bot from a plurality of centres; that these were created ab initio in those parts of the world beat edapted to their phyeical nature; that the epoch of creation was that undefined period of time spoken of in the first chapter of Genesis, wherein it is related that God formed man, 'male and female crested he them;' that the deluge was a mere local phenomenon; that it affected bat a small part of the themexisting inhabitants of the earth; that theee views are consistent with the facts of the case, as well as with analogical evidence,"

In another letter to Gliddon, at New York, December 14, 1849, we read:-
"By the hande of the person to whom you confided them, I leat night received Lepgius's "Chrovologie," and the tin case of fac-simile drawinga. ${ }^{30}$ These, when stadied in conneotion with the Egyptian hesds [skultr], and especially with the small sariea sent me [from Metophis] by jour brother Filliam [saventeen in oumber, and rery enciant], compel me to reeant so much of my published opinions as respects the origin of the Egyptians. They rever came from Asia, bat are the indigenous or aboriginal inhabitents of the valley of the Nile. I have Laten thlo position in my letter to Mr. J. R. Bartlett (New York Ethnological Soc. Journal, I.) : every day has verified it, and your drawiogs settle it forever in my mind. It has cost me a mental struggle to acknowledge this conviction, but I can withhoid it no longer." [See confrmations in the MSS. of Dr. Morton; infra, Chap. XI.].

Again, to the same, January 30, 1850 : -

> "You allude to my altered views in Etbrology; but it all consists in regarding the Egyptian race as the indigenous people of the valley of the Nile. Not Asintics in any gense of the word, but antocthones of the country, and the authors of their own civilization. This view, which you will recollect is that of Chimpollion, Heeren, and others [escepting ouly that they do not apply the word indigenous to the Egyptians], in nowise conficts with their Cancasian position; for the Cawcarian group had many primordial oentres, of which the Egyptiang represent ona."

Here, then, we behold the matured and deliberately-expressed opinion of Dr. Morton, that the earliest monumental type of Egyptians was not Asiatic, but that of an aboriginal African race.

A few months ago the writer (J.C.N.) addressed the Chevalier Lepsius, stating the impressions relative to what we shall call a Negroid type, left on our mind hy an examination of his plates of the IVth dynasty. We received from him a most obliging and comprehensive letter : an extract below indicates its nature.
We ought to premise that the Chevalier, like Baron von Humboldt, an is a sustainer of the unity of races, for linguistical and other reasons to be detailed by his owa pen sume day. We wish here simply to
present the results of some of his "linguistique" researches-a department of seience in which he is so justly renowned. His reply to our interrogatory begins-" Je laisse de coté le point de vue théologique qui n'a rien à faire avee la science." Our clerical adverearice need not lean, therefore, upon savans whose sole object is scientific truth; nor, for ourselves, can we refrain from admiring the philosophic toue with which such intelligences as Agassiz, Lepsius, and Morton, have pursued it.
${ }^{4}$ Vous parlez d'une gredstion des peuples du continent d'Afrique depuis le Cap jusqu'u dans le nord. Il y's un fait bien curienx, gue les iangues des Hottentots et dee Bushmans sont essenciellement đifférentes des langues do tout le reste du continent jusqu'a l'equateur. Et ce qui eat, peat-être, edcore plus curieux, leur langue porte quelques traits charactéristiques, qui ne se retroavent que dans les langues du nord-est de l'Afrique. . . . . . Tout le continent Africain avait, selon mon idée, dans un certain temps, une population parente, ot les lagues psr conséquent analogaes nussi. Plus tard lea peuples Asistiques immigraient du pord-est. Le mélange des racea produignit ce Inrge bandeau de peoples et de Inagues dispersés et apparemment incohérens qui se trouvent maintenant entre la ligne et le $15^{\mathrm{ma}}$ degré lat. nord. Ces lengues ont perdu leur caractère Africain sans acquérir le caractêre Asiatique; mais le fond des langues et dusang ast Africain.
"Je comprends ce que vons sppelez un type negroide dans lee fignres Egyptiennes, et je n'ai rien contre cette observation; mais cels n'empêche pas que leur caractère principal ne soit Asiatique. Pendant le temps des Hyksôs, la race ancienne se chavgeait considemblement"

We repeat tbat Prof. Lepsius declares, in the same letter, his confirmed belief in the unity of races; but the occurrences he speaks of must antedate the era by him defined for the foundation of the Egyptian Empire, 3893 years d.c., as Frenchmen express it, by "des millions et des milliards d'années."

Not less do we esteem, on these archaie subjects, the high authority of Mr. Birch, of the British Museum; who, in a private letter (to J. C. N.), dated October, 1852, writes:-
"You are, I agree, quite right as to the intermediate relation of Egypt to the Asiatio and Nigritian races. Benfey and others have alrendy, I think, pointed out that the so-called Semitic languages are prineipally spoken in Africh, and the bieroglyphs are of Semitic con-nection-resembling the Semitic langanges in the construction and copia verborum; at the same time they differ in many eggential points, and have a fair olaim to be considered a separste species of language. The astounding fact ia, that Egyptian civilization was the oldest-and that the Assyrian and other nations hnye left no remains to compare with them in reapect of time."

It cannot fail to be remarked, that certain of the portraits on the earliest pyramidal monuments already represent a very mixed people; and, consequently, it is clear that Egypt, for anterior centuries unnumbered, must have been, so to say, the battle-ground of Asiatic impinging against African races. Some of the heads we have selected as illustrative of the antiquity of a high "Caucasian" type, might readily pass unnoticed at the present day in the streets of London, Paris, or New York; while others, again, are so strictly African, that the
typical difference cannot be mistaken. It is note-worthy, besides, that many of these Egypto-Caucasian heads are not only strongly Semitic, but even Abrahamic in type: thus affording support to legends running through the fragments of Manetho, and his mutilator, Jobsphus, as to connections between the Hykeos and the early population of Canaan. The same Chaldaic festures beheld in some of the royal likenesses of the XVIth, XVIIth and XIXth dynasties, are seen upon the sculptures of the IVth, Vth and VIth.

Philological acience generally admits that the roote of the modern Coptic language are, in the main, (alien engraftmenta deducted) the sarue as those of the " lingua sancta," or Old Egyptian tongue, apoken by the prisethood and educated classes, from Roman times, through all dynasties, back to the earliest Pharaohs, when the latter was the colloquial idiom of every native. As a medium of oral communication, the Coptic language ceased to he used in the twelfth centary, and the last person who could speak it is said to have died in A. D. 1663: xa but an old Egyptian (G. R. G.) avers that he met with good authority for ite-decense about ninety years ago, with a priest, in the Thebaid.
The lepd $\delta$ dànaxros, ${ }^{20}$ sacerdotal dialect, or antique language, affords one of the strongest evidences of the high antiquity of the early population of Egypt, and also of their Nilotic or aboriginal cmanation. Egypt bas been, diterally, for many thousands of years, the football of foreign conquerors; and ber primordial language became infiltrated, from age to age, with Arabic, Persian, Greek, Libyan, Latin, and words of other tongues, known to us only at a later stage of development; but, when these exotic injecta are abstracted, there remains, neverthelees, a stone-recorded vernacular, possessing all the marks of originality, and in itself totally distinct from the utmost circumference of Asiatic languages. The proper names of very few Nilotic objecte, natural or artificial, in primitive hieroglyphics, are rcally identical with the vocalization of Syro-Arabian langnages; and their Egyptian structure is characteristically different; being monosyllabic, in lien of the posterior triliteral shape in which Semitic tongues have come down to us. "If all these languages be kindred, Benfer, who has compared them most elaborately, bolds, they must have eplit off from a parent stock, not only at a period too remote for all bistorical or monumental evidence, but even for plausible conjecture." ${ }^{24}$ Sucb, in brief, are the curreat opinions of Lepeius, Birch, of Bunsen, Hincks, De Saulcy, Lanci, and other eminent authorities of the day, aa regards Egypt : supported, moreover, by the philological discoveries of Rawlinson, Hincks, and De Longperier, in cuneiform Assyria; and by the studies of Gesenius, Ewald, Munk; and Freenel,
in Shemitish palmography. It is the deduction of Lepsius, that Egypt had possessed an African population, and a Nilotic language, hefore the foundation of the Old Empire; and that various disturbing causes superimposed, gradually, an Asiatic type and Semitic dialects apon the anterior people of the Lower Nile, without obliterating the aboriginal frame-work which, as well in type of man as in speech, was exclusively African.

Affinities, tending to establisb a remote contemporaneousness, have been traced among various languages of Northern Africa: and Hodgron, quoted in the last chapter, long ago pat forth the doctrine that the Berber speech, as now extant, had preceded the Coptic of Christianized Egypt. He insisted that many old names of places, divinities, \&c., along the Nile, were Berber, and neither Coptic nor Semitic. Allowance made for some slight anachronisme, in terms rather than in facta, we think our learned countryman's arrow has not flown wide of the target.

The high antiquity formerly claimed for civilization in India, and many coincidences of doctrine and usages that, imagined by Indologists, have entirely vanished from Egypt aince her hieroglyphics have become readable, had led Prichard, and other acholart less eminent, to connect the Ganges with the Nile: bat, so far from any evidence of intercommunication, we have nothing to show that the nations on these two rivers, in the time of Solomon, moch less of Moses or Abraham, were even acquainted with each others' existence. The ancient Egyptians never surmised a Hindostanic origin for their own nation; they believed themselves to be, in the strictest sense, autocthones, natives of the soil. Nor do East-Indians (since Whipond's misconceptions hecame exposed) possess any tradition of having received an Egyptian or sent forth a Hindoo colony. Moreover, the rumored resemhlances between the languages of India and Egypt Sanscrit and Coptic-compared in their modern phases, are few and slight, where not altogother factitious. The whole genius of both, and almost their entire stock of words, are entirely different. The hieroglyphic system of Egypt is clearly indigenous to the valley of the Nile, whilst not even a legendary tale remains to show that such mode of writing ever prevailed in India.

When we reflect that this hieroglyphic writing is found in high perfection on the earliest monuments extant, viz.: those of the IVth dynasty, 3400 years в. c., and, therefore, must have existed many centuries previously; that the figure of every animal, plant, or thing, delineated in these hieroglyphics, is Nilotic to the exclusion of every foreign idea ; and that Egyptian economy in manners, custome, arts, dc., must have been radically diverse from those of all other races,
at the time such writing received its incipient projection; - when, too, we remember the fact that, the physical characters of each type of man in India and Egypt were different, and that no physical causes but amalgamation have ever transformed one race into another, it is impossible to resist the conviction that these Gangentic and Nilotie races have always been, that which, modern fusions deducted, they are now, distinct.

The Egyptians, for instance, bad practised circumcision from time immemorial, long before Abraham adopted this mark after his visit to Eggpt, in common with the later Ethiopic tribes; but tbis Nilotic rite was not practised in India, until introduced by Mohammedan conquests. So, again, with regard to "castes," heretofore almost insolently obtruded, in order to identify Egyptian with Hindostanic customs! It will be news to some coryphei of the unity-doctrine, when they are taught, in our Part III., that the "caste-system" has never existed along the Nile, and that, on the Ganges, it is a very modern invention.

To the extreme climatic dryness of Egypt are we mainly indebted for the preservation of her monumental history. While the remains of Greece, Rome, and other nations, none of them 3000 yeare old, crumble at first touch, Egypt's granitic obelisks, at the end of 4000 years, have not yet lost their polish; and had all the early monuments of tbat country been spared by harharian hands, we should not now, after fifty-three centuries, have to accuse Time as the cause of disputations over the history of the old Empire.
That Menes of This was the firet mortal king of Egypt, is one of the points in which classical authorities, Herodotus, Manetho, Eratosthenes, and Diodorus, agree with the genealogical lists upon tablets and papyri; and we must regard bim as the first historical founder of an empire, which, for untold ages previously, had been approaching its consolidation. His reign is placed by Lepsius at 3893 years b. c.; and although criticisrn grants that this date may be a few centuries below or above the true era, yet there is so much irrefragable evidence of the long duration of the empire prior to the fixed epoch of the XU th dynasty, 2300 years B. c., that any error, if there be such, in his claronological computations, caunot be very great, while almost immaterial to our present purpoeses. The august name of Mense is gloriously associnted with the building of Memphis, the oldest metropolis, with forcign conquests, with public monuments, with the progress of the arts and of internal improvements. To admit the possibility of such legislative actions, a numerous population and a long preparatory civilization must have preceded him: to say nothing of the contemporary nations with which this military Pharaoh beld intercourse, that must have been at least as old as the Egyptians
themselves. To one who knows anything of the topography of the Nile-land, it need not be told that the scienee of hydraulic engineering, in particular, must have existed in high perfection before the Lower Valley of the Nile could have been studded to any extent with towns on the alluvium : because this stream had to be controlled by dykes, canals, sluices, and similar works, long before the soil on its banks could be uniformly cultivated; and, what an antiquity do not these facts necessitate!
But, whatever uncertainty may hang over the first three dynasties (of which coetaneous records are now lost), when we come to the IVth-
"We may [in the language of the Rev. John Kenrick] congratulate ourselves that we hape at leagth reached the period of undoubted cotemporaneous monuments in Egyptian history. The pyramids, and the sepulchres near them, still remain to assure us that we are not walking in a land of shadows, but among a powerful and populons nation, far advenced in the arts of life; and, as a people can only progressively attain such a biation, the light of hiatoric certainty is reflected back from this era upon the ages which precede it. . . The glimpse which we thus obtnin of Egypt, in the fift century after Menea, according to the iowest computation, reveals to us ame general facts, which lead to important inferences. In all its great charscteristics, Egypt was the same as we see it 1000 yeara later. A well-organized monareby and religion elaborated througbout the country. The syatem of hieroglyphic writing the same, in all its leading peculiarities, as it continued to the end of the moarreby of the Pharacha." 30

Bas-reliefa beautifnlly cut, sepulehral architecture, and pyramidal engineering - reed-pens, inks (red and black), papyrus-paper, and chemically-prepared colors! - these are proud evideuces of the Memphitic civilization of fifty-three centnries ago, that every man with cyes to see can now hehold in noble folios, published by Frince, Tuscany, and Pruspia; and concerning which any one, not an ignoramns through education, or a blockhead by nature, can acquire adequate knowledge by merely reading those English, French, German, or Italian works, printed within the last fifteen years, and abundantly cited at the end of this volume, which are at the present hour very accessible to all intelligent readers, everywhere but on the bookshelves of primary seminaries. This reservation made, we appeal, through these popular works, to the most ancient seulptures, in hopes of arcertaining - What was the Type of the primitive Egyptians?

Let our departare be taken, in this inquiry, from one of those four effigics extant in the sepulchral habitation of Seti I., hefore alluded to (vide ante, p. 85, Fig. 1), which eatablishes what Egyptian art considered, in the fifteenth century b. c., the beau-ideal of the Egyptians themselves. Beneath the head (Fig. 152) we place a ro duction of one of the same full-length figures (Fig. 153), which, on the original, is colored in deep red. The reader has now before his eye the standard effigy, typical of the Egyptian race, such as the "hun-dred-gated" Thebes exhibited in her streets ahout 3400 years ago.


Fia. 158.


Fig. 154.28


This head we regard as a most interesting one, in connection with the Egyptian type; because it gives the Egyptian idea of their own people, whom the accompanying hieroglyphics call the RoT, that is, "race," par excellence viewed by the Egyptians as the only human species, to the exclusion of "outside barbarians" of every nation around the "land of purity and justice."
Now, although this effigy was designed, at Thebes, as typical of the Egyptian nation during the XVIIIth dynasty, to us it seems rather to be the long-settled type of that race, handed down from early times; for, assuredly, it does not correspond with the royal portraits of the New Empire, which, we have seen, were strongly Semitic in their lineaments, and therefore chiefly Asiatic in derivation.

This RoT, if placed alongside the iconographic monuments of the IVth, Vth, and VIth dynasties, is closely analogous to the predominant type of that day; which fact serves to strengthen our view that the Egyptians of the early dynasties were rather of an African or Negroid type-resembling the Bishari, in some respects, in others, the modern Fellah, or peasantry, of Upper Egypt. To show its analogy to the primitive stock, we reproduce a better copy of the colored head of Prince Merhet (Fig. 154), "Priest of Shufu" builder of the great pyramid, and probably his son (supra, p. 177, Fig. 118). More than 1700 years of time separate the two sculptures, and yet how indelible is the type !
Fig. 155 is taken from the temple of Aboosimbel - Wars in Asia of Ramses II., XVIIth dynasty, during the fourteenth century в. c. This head is one of a group of full-length portraits of the same type, and they are Egyptian picked soldiers of the royal body-guard - pro-

bably Calisirians: a word which means " young guard," and also persons wearing the calasiris, "fringed tunic." ${ }^{20}$
[The pictorial illustrations designed in 1842 for Gliddon's Lectures having required a critical study of every head then known upon the monuments, we will here introduce an extract from his Ethnographic Notes, written eleven years ago - when, without theory to sustain, he could have no idea that his private memoranda would become availahle to anatomists in the year 1858. - J. C. N.]
"These aro Egyptian soldiers, of the royal body-gund - probably Bermotybiant, or Calacirian; bat, as the latuer name aeems derivable from the Coptle BHELOSHIRI, young, and since thene aoldlers are young men, it is likely that they reprosent Calasirions of the rogal guard - like the goung guerd of Napoleon, or the Yerte-cheri (compated by Europeans into Jonisarici), 'new guard' of the Ottomass. The Bermetybians wert the velerase - the old ganerd, in whose charge were the fortresses.
"Now, es these soldiers were quartered in, and chiefly drafted from, Love Egypt, this soldier is a good specimen of the 'thews and alnewa' of Egypt. See his athletio brild, bis masoular frame, and look of bulldiog determination - the very bear-ideat of a soldier: This man is precisely aimller to the mase of the Fellahs of Lower Egypt at thia day, espeeially on the Damists branch, end I conld pick thousands in these provinces to matoh him; whoreas, above Jfodita Egypt, as yon appronch Nubia, this type disappeart, to be replaced by lank, tall, dark, tpare met, antil the Fellah mergen in the Nublan racee, abovo Esne. I therefore contend that thle soldier is a perfect specimen of the picked men of Lomer Egypt, E. c. 1500. He ahows the euperiority of the people of Lover Egypt in that day; while, as he is identical with the pioked men of the Fellahs of Lower Eggpt at the present day, it follows thet very great changes have not taken place, in 8500 yeara, between the anciont and moders Lover Rgyptians; and sopporte my assertion that, spart from a certain amount of Arab-arose (easily explained, end basily detooted), it is in Lower Egyph, among the Fellahs, you will find the descendents of the ancient race - more than among the Copte (whose females aro, and have been, the 'Gursardeyeh of Naions'); and infaitely more than smong the half-witted, diseolate, corfupt, and mongrel African reoe of Baraberaf."

Morton's comparison of ancient and modern skulle confirms this view; and it will remove some erroneous notions from the reader of Osburn, ${ }^{2 n}$ to mention an indisputable proof of the Egyptian origin of those guards - that is, the fact that they are painted red in the tableau at Ahoorimhel.

Now, a remark made hy us when speaking of the last race (RoT), applies equally to this figure: viz., that although both are representations of Egyptiane, drawn and colored by an Egyptian artist, during the XVШth dynasty, yet this soldier does not display the same type as the legitimate line of royal portraits, from Amsnoph I. downwards. There is nothing Asiatic about his physiognomy - on the contrary, it perpetuates the African or Negroid type of the first dynasties.

Fia. 156.


Neverthelcss, already the military caste of Egypt was a mixed one; for here are two soldiers (Fig. 156), from another brigade, who, as Morton observed, present rather the Hellenic style of feature. ${ }^{20}$
So too, allowance made for very possible inattentions on the part of European copyists, where the subject was not royal iconography, do some of the following heads of lower classes of people (Figs. 157-161), also selected by Morton:-

Pia. 158.

Fio. 157.


Artisao.

Leathar-dreseer.2s
Fia. 180.

F1a. 169.


Wrestlar.
Fio. 161


Peasantax ${ }^{2 B}$


Sorrants.200

The modern Fellahs, constituting the mass of the common people of the country, have not even yet hecome sufficiently adulterated for their ancestral type to be extinguished, inasmuch as the same preponderating characteristics can be traced, backwards, from the living ruce, through five millennia of stone-chroniclings, to the earliest times




It is fair to conclude that these Fellahe really preserve much of the aboriginal Egyptian type. Such type bears not the slightest resemblance (except in casual instances, themselves douhtful, when we first see it in the IVth dynasty, about 3400 в. c.) to any Asiatic race, and must therefore have been inherent in that indigenous race which was created to people the Valley of the Nile.

The authors esteem it a very high privilege that "Types of Mankind" should be the first work to remove all doubts upon the type of the earliest monumental Egyptians. Further discussion becomes saperseded hy the publication of the annexed lithographic Plates I., II., III., and IV. Being fac-imiles of the most ancient human heads now extant in the world, and transfer-copies of impressions stamped, hy the hand of Chevalier Lepsius himself, apon the original bas-reliefs preserved in the Royal Museum of Berlin, their intrinsic value in ethnography cannot be overrated; at the same time that, like an axe, these effigies cleave asunder facts and ouppositions as to what primordial art at Memphis, ahove 5000 years ago, considered to be the "canonical proportions" ascribable to the facial and cephalic structure of the heade of the Egyptian people themselves.

Prefacing our exposition of the guarantees tho lithographs possess for exactitude and authenticity with the remark, that these portraits belong to the tombs of princely, aristocratic, and sacerdotal personages, who lived during the IVth; Vth, and VIth Memphite dynasties, we proceed to state how such illuetrations alike precious from their enormons antiquity and for their unique excellence) have been obtained.

Attendants on Mr. Gliddon's Archæological Lectures in the United States have been informed, yearly, from 1842 to $1852,{ }^{207}$ of the discoveries of the Prussian Scientific Mission to Egypt: in every case, before the winter of 1849, far in advance of detailed publication, whether in America or in Europe. In that year, the first volume of Lepsius's quarto Chronologie der Exgypter was quickly followed by the first livraisons of the folio Denkmäler aus AEgypten und AEthiopien the former judiciously constructing the chronological and historical framework within which the stupendons facts unfolded hy the latter are enclosed. To facilitate popular appreciation of the magnitude of these Prussian labors and discoveries, Lepsius put forth, at Berlin, in 1852, his octavo Briefe aus Agypten, Athiopien, \&c.; which, trans lated and ably annotated hy Mr. Kenneth Mackenzie, being now equaily accessible to every reader of our tongue, renders any account
here of these Nilotic explorations superfluous, beyond mentioning that four of the most ancient tombs discovered at Memphis by Lepsius, independently of his vast collection of other materials, were taker to pieces on the spot, with the utmost care, and became rebuilt into the Royal Museum at Berlin.

Invited by Chevalier Lepsius to visit, ${ }^{289}$ and inspect personally, antiquarian treasures endeared by a lifetime's Egyptian asaciations, Mr. Gliddon was at once so struck with the ethnographic importance of these sepulchral bas-reliefs, that he solicited paper-impressions of a few beads for the joint and future studies of Dr. Morton and himself; and, on the 10th of May, 1849, he had the gratification of assisting Chevalier Lepsius to make numerous estampages; while, to insure perfection and authenticity, the paper was stamped upon the sculptures by the Chevalier's own hands.

One singular fact, illustrative of the superior antiquity of these tombs of pyramidal magnates to any heretofore described by Egyptologists, may here be mentioned. Laid bare, through excavation, at a depth of many feet below the rocky surface, and emptied of the sand with which they had become refilled since their desecration by unknown hands (prohahly Saracenic) centuries ago, the relievos presented themselves in colors so vivid as to appear "fresh and perfect, as if painted only yesterday;" but, despite every precaution, on removing each slab into the open air, the painted stucco-supericies fell off-leaving, however, the uninjured low-relief (about the sixth of an inch) sculpture to endure long as time shall respect the Berlin Museum. Now, in the dry climate of Memphis, Egyptian colors known to range from 2500 to 4000 years old, where not exposed to the dew, or to the Etesian winds, atill adhere on the wall of tombe in their pristine freshness and brilliancy. Well, therefore, is an antiquity of at least 5300 years for these now colorlesa relievos (imperiously demanded also by their hieroglyphical and other conditions) corroborated by their exceptional friability. With his wonted foresigbt, Lepsius had caused the colored sculptures to he copied by his draugbtamen, in situ, before removal; and in the Denkmäler, ${ }^{30}$ their gorgeous paintinga may still be admired.

On the writer's (G. R. G.'s) return to London, these estampages, ufter being outlined, were transferted upon tracing-paper by his wide's accurate pencil, in duplicate, for Dr. Morton and himself. The originals, as acknowledged by the Doctor in a foregoing letter (p. 232, ante), were duly passed on to his cabinet, where their inspection completed that revulsion of earlier views toward which his progressive studies bad long been leading. The second copy, shaded and colored in imitation of the limestone originals, has often embel-
lished Mr. Gliddon's lecture-rooms when "Egyptian Ethnology" was the topic of his address.

When the authors projected the present work, at Mobile, in the spring of 1852 , they acquainted Chevalier Lepsius, among other European colleagues, with their respective desiderata, archæological or ethnographical. Answering one of Gliddon's letters, the Chevalier complaisantly remarks : -
"BEALIX, I Nopersbra, 1862.


#### Abstract

 ot ai vous en dedirex je vous en enverrai eocore d'spantago. . . . Les empreintes dep basreliefa et les platres des anciennes atatues sont, id te qu'il me parith dea eouls matarianx  qu'on poarreit se tromper bur plusieur traits qui parsissent etra aurs, parceque le canon [that is, the canon of proportion aceorded by Old Egyptian ert to the haman figure.-G. R. G.] reçu ponvalt a'écarter en quelques points de is Fifrite, comme dans is poition haute de l'oreille.'


We have to record our joint obligations for the receipt, in August of the present year, of the second collection of stamps promised in the ahove letter ; and it is from careful comparison of the duplicate originals with their traciogs, that the models for our lithographic plates were designed. We feel confident, therefore, that our lithographs are fac-similes-submitting them to Chevalier Lepsius for comparison with the original bas-reliefs, while taking the liberty to urge upon bis scientific attention, no less than upon that of poseessors of such remains generally, the benefit they would confer upon ethnological studies, were they to publish similar fac-rimiles, where the lithographer, copying the original monument under their own critical eyes, would attain precision from whicb the Atlantic debars art in this eountry.

Abstraction made of the divergence from natare in the "high position of the ear," to which the above epistolary favor alludes, as a subject set at rest by Morton; ;00 and repeating our previous notice of false delineation of the eye in Egyptian profiles: there remains no doubt that the facial outlines, and, where naked, the cranial conformation, in these most antique of all known sculptares, are rigorously faithful. Without besitation, these heads may be accepted by ethnography as perfect representations of the type of Egyptians under the Old Empire.

Assaming such to be facts-and, beyond aecidents of some trivial slip of a pencil, none can dispute them but the unlettered in these sciences - we may now claim as positive that the originals of our fac-simile heads date back, as a minimum, from 3000 to 3500 yeara before Christ, or to generations deceased above 5000 years ago: at
which time Egypt had already existed for many centuries as a powerful empire, borne along on full tide of civilization: and, let us ask, what trace of an Ariatic type does the reader perceive in these hoary likenesses? How distinct, physiologically, are these heads from the royal portraits of the New Empire! Does not the low, elongated head; the imperfectly-developed forehead; the short, thick nose; the large, full lip; the short and receding chin; with their tout-ensemble, all point to Africa as the primeval birth-place of these people? When, too, we look around and along this ancient valley of the Nile at the present day, and compare the mingled types of races, still dwelling where their fathers did - the Fellahs, the Bishariba, the Abyssinians, the Nubians, the Eibyans, the Berhers (though they are by no means identical among each other), do we not behold a group of men apart from the rest of human creation? and all, eingularly and collectively, inheriting somothing in their lineaments which clusters around the type of ancient Egypt? A powerfal and civilized race may be conquered, may become adulterated in blood; yet the type, when so widely spread, as in and nround Egypt, has never been obliterated, can never be washed out History abundantly proves that human language may become grently corrupted by exotic admixture-nay, even extinguished; but physiology demonstrates that a type will survive tongues, writings, religions, customs, manners, monuments, traditions, and history itself.

Dr. Morton's voluminous correspondence with seientific men throughout both hemispheres is replete with interest, exhibiting as it does so many charming instances of that philosophical abandon, or freedom from social rigidities, which characterizes true devotees to science in their interchanges of thought. There is one epistle among these, that almost electrified him ${ }^{\text {mos }}$ on its reception, bearing date "Alexandria, Dec. 17, 1843." It is invested with the signature of a voyager long "blanahed under the harness" of acientific pursuits; who, ns Naturalist to the United States' Exploring Expedition, had sailed round the world, and beheld ten types of mankind, hefore he wrote, after exploring the petroglyphs of the Nile:-

[^66]Qunlified to judge, through eapecial training, varied attainments, and habits of keen observation that, in Natural History, are preeminent for accuracy, the first impressions of the gentleman from whose letter to his attached friend we make bold to extract a few mentences, (preserving their original form,) are atrikingly to the point:

[^67]Egyptian. . . . . .

Yoars, traly,
"Chables Ptompring."

So inferred Ceampollion-lb-Jbune; ${ }^{20}$ so pronounced Morton, after a formal recantation of his publisbed views; so, finally and deliberately, think the authors of this volume; viz.: that the primitive Egyptians were nothing more nor less than-EGYPTIANS.

Objectors must restrict themselves henceforward merely to cavils as to the antiquity of these Egyptian records. In Part III. their claims to reverence are superabundantly set forth. For ourselves we are content to rest the chronological case upon the authority of Baron Alrxander von Humboldt:-
"The ralley of the Nile, which bas occopied so dirtingrished a plece in the history of Men, yat preserves anthantic portraits of kings as far beok as the commencement of the IVth dynesty of Manetho. This dyasaty, which embraces the constructors of the great pyramids of Ghisa, Chofren or Bahafrs, Cheops, Chonfou, and Menkars or Menkerde, commences mare than 8400 years b. ©., and twenty-four centuries befors the invesion of Peloponnesus by the Heraclides." 304

## CHAPTER VIII.

## NEGROTYPES.


#### Abstract

" Fhen the prophet Jeremian sen exolaime, 'Can the Evhopias obugge his atin, or the leopard hig apots?' be oercainly means us to infer that the one wes as imposestle as the other." - Mozros's M8S.  oum ea corpus bram. Diotom antem an fait: quare fricas corpas tuom nive? Et dixlt (ille) : fortacea albescam. Venitque vir (quidan) enpiens, (qui) dixit ei: 0 to, no afilgo to ipoum ; fieri enim potest, ut corpon tanm nigrem faciat nivom, Jpoum autom non milttot nigrodinem." - Locmasi Fangua XXIII: trandated from tho Arabic by Rommintra, ${ }^{\text {So }}$


Had every nation of antiquity emulated Egypt, and perpetaated the portraite of ita own people with a chisel, it would now be evident to the reader that each type of mankind, in all zoological centres of man's creation, is by nature as indelibly permanent as the stonepages upon which Egyptisns, Chinese, Asayrians, Lyciank, Greeks, Romans, Carthaginians, Meroïtes, Hindoos, Peruvians, Mexicans, (to say naught of other races,) have cut their several iconographies. How instantaneously would vanish pending disputes about the Unity or the Diversity of human origins !

Contenting ourselves at present with the now-acquired fact, that the Egyptians, according to monumental and craniological evidences, no less than to all history, written or traditionary, were really autocthones of the Lower Nile, we think the question as to their "type" has been satisfactorily answered. In reply, furthermore, to our previous interrogatory, whether this ancient family obeyed the same law of "gradation" eatablished for other African aborigines; we may now observe, that the Egyptians, astride as it were upon the narrow isthmus which unites the once-separate continents of Africa and Asia, figure, when the Aurora of human tradition first breaks, as at one and the same time, the highest among African, and (physiologically, if not perhaps intellectually) as the lowest type in West-Asiatic gradations.

Were we to prosecute our imaginary joumey northwards, the dark Cushite-Arabs would naturally constitute the next grade, and the ancient Canaanites probably the one immediately succeeding. The primitive group of Semitic nations would be found to have aboriginally occupied geographical levels commencing with Mount Lehanon and rising gradually in physical characters as we ascend the Tauric
chain - paseing, almost insensibly, into the Japethic or whitest races (also possessing their own gradations), until the highest types of prehistoric humanity would reveal their birth-places aronnd the Caucasus.

But, dealing mainly with the Natural History of Man, elucidated through new archeological data, the scope of our work permits no geographical digreasions beyond the Caucasian mountaina. We bave already insisted that the term "Caucasian" is a misnomer, productive of infinite embarrasements in anthropology; hecause a name in itself specifically restricted, since the times of Herodotus, to one locality and to one people, has become misapplied generically to types of mankind whose origing have no more to do with the mountains of Caucasus then with those of the moon. Would it not be ridiculous to take, for example, the name "Englander" (a compound of Angl and land - "man of the land of the Angli"), and to classify under buch an appellative, Hebrews, Egyptians, Hindoos, \&c.? That "Caucasian" is equally fallscious, will be made clear to the reader, in Part II., under the article on MaGUG; bat we anticipate a portion of the philological argument hy mentioning, that the Hellenized name CAUC-ABOS means simply the "Mountain of the Asi;" being the Indo-Germanic word $\boldsymbol{K} h o g h$, signifying " mountain," prefixed to the proper name of a nation and a race: viz., the Aas, Aai, Jases, Osseth, or Osees; who, dwelling even yet at the foot of that Cauc-Asos where, from immemorial time, their ancestors hived before them, would be astonished to learn that European geographers had bestowed their national name upon the whole continent of Aria, and that modern ethnologists actually derive a dozen groups of distinct human animals

Pia. 162.


White raver-Japriris. from the mountain ("Khogh") of which such $A$ si are aborigines! ${ }^{m o}$

Turning our backs upon the Caucasas, and retracing our stops toward Africa, let us incidentally notice the recognition hy ante-Mosaic Egyptian, and by post-Mosaic Hebrow, ethnographers, of the general principle of gradation among such types of mankind as lay within the horizons of their respective geographical knowledge. The Egyptians, for instance, in their quadripartite division of races, already explained (ante, p. 85, Fig. 1), assigned the most northerly habitat to the "tohite race," of which we here reproduce the standard type (Fig. 162) - one of the four designed in the tomb of Seti I., about 1500 в. c.

Precisely does the writer of Xth Genesis, as set forth elaberately in Part II., follow the same
system, in his tripartite division; inasmuch as he groups the "Affliations of Japhete," that is, his "white: races," between the Tauric chain of mountains and the Caucasian, along and within the northern coast of Asia Minor to the Black Sea.

So, again, Egyptian ethnography chose, for


Yellow races - SHEM. the standard-type of "yellow races," four effigies which entirely correspond, in every desideratum of locality, color, and physical conformation, with those families classified, in Xth Genesis, as the "Affiliations of Shbm;". and like the Hebrew geographer, the Theban artist must have - known, that the yellow, or Semitic, groups of men occupied countries immediately south of the " white races," and stretching from the Taurus to the Isthmus of Suez, including the riverlands of the Tigris and Euphrates, together with the Arabian Peninsula.

The specimen illustrative of these groups of yellow-skinned races here presented in Fig. 163, is also, like the following (Figs. 164, 165), a reproduction from the four figures before shown on page 85.
Equally parallel is the Jewish classification, in respect to the "Affiliations of HAM" (Fig. 164), with those "red races" among which the Egyptians placed the RoT, or themselves. To the latter, Kh aM was nothing but the hieroglyphical name of Egypt proper; KheMe, or KhiMe, "the dark land" of the Nile; corrupted by the Greeks into "Chemmis" and "Chemis," and by us preserved in such words as "chem-istry" and "al-chem-y," both Egyptian sciences; while, in Hebrew geography, KhaM, signifying dark, or swarthy, merely meant all those non-Shemitish families which, under the especial cognomina of Cushites, Canaanites, Mizraimites, Libyans, Berbers, and so forth, formed that group of proximate types situate, aboriginally, east and west of the Nile, and along its banks north of thu first cataract at Syene. Our wood-cut illustrates the Egyptian standard-type of these populations.

But here the analogy between the earliem Egyptian and the posterior Hebrew systems ceases. Nigritian races, never domiciled nearer to Palestine than 1500 miles to the south-westward, did not enter into the social
economy of the Solomonic Jews, any more than into that of the Homeric Greeks; and, if not perhaps absolutely unknown, Negroes were then as foreign to, and remote from, either nation's geography, as the Samoidans or the Tungousians are to our popular notions of the earth's inhabitants at the present day. In consequence, (as it is thoroughly demonstrated in Part II.), the writer of Xth Genesis omits Negro races altogether, from his tripartite classifi-

Fra. 165.


Black races. cation of humanity under the symbolical appellatives of "Shem, Ham, and Japheth;" whereas the Egyptians of the XIXth dynasty, about 1500 years в. c., having become acquainted with the existence of Negroes some eight centuries previously (when Sesourtasen I., of the XIIth dynasty, about в. c. 2300 , pushed his conquests into Upper Nubia), could not fail to include this fourth type of man in their ethnological system; because the river Nile was the most direct viaduct through which the Soodàn, Negro-land, could be reached, or Negro captives procured.

With this preliminary basis, calling attention to the effigy (Fig. 165) by which they personified Negroes generally, we proceed to draw from the ancient stone-books of Egypt such testimonies concerning the permanence of type among Nigritian races as they may be found to contain.

Fia. 166.


Our Negro (Fig. 166) is from the bas-reliefs of Ramses III. (XXth dynasty, thirteen centuries в. c.), at Medeenet-Haboo, where he is tied by the neck to an Asiatic prisoner. The head, in the original, is now uncolored; and it serves to show how perfectly Egyptian artists represented these races. ${ }^{38}$ We quote from Gliddon's Ethnographic Notes, before referred to: "This head is remarkable, furthermore, as the usual type of two-thirds of the Negroes in Egypt at the present day." And any one living in our Slave-States will see in this face a type which is frequently met with here. We thus obtain proof that the Negro has remained unchanged in Africa, above Egypt, for 3000 years; coupled
with the fact that the same type, during some eight or ten generations of sojourn in the United States, is still preserved, despite of transplantation.

The following representation (Fig. 167) is traced upon a spirited reduction by Cherubini. ${ }^{39}$ It is a double file of Negroes and Barabra (Nubians), bound, and driven before his chariot by Ramses II., at Aboosimbel. This picture answers well as a complement to the two

Fra. 167.

preceding; for we here have the brown Nubian - a dark one, and a light-colored family-admirably contrasted with the jet-black Negro; thus proving that the same divisions of African races existed then as now, above the first cataract of the Nile at Syene.

One of the same series (Fig. 168), on a larger scale, taken from Rosellini. ${ }^{30}$ It should be observed that he is shaded browner than the next head (Fig. 169); thereby showing the two commonest colors and physiognomical lineaments prevalent among Nubian Barabra of the present day; who, whether owing to amalgamation, or from original type, approach closer to the Negro than do the adjacent tribes-Ababdeh, Bishariba, \&c.
The same group supplies a lighter (cinnamon) shaded sample of a Nubian Berberri (Fig. 169); whose name in the Arabic plural is Barabra. The identical designation, BaRaBaRa , is applied to the same people in the sculptures of several Pharaohs of the XVIIth and XVIIIth dynasties, 1500 years в. c. ${ }^{31}$

Fig. 169.


Fra. 170.


To render the contrast more striking, we place in juxta-position an enlarged head (Fig. 170) of the last Negro from the above prisoners. The face is ingeniously distorted by the Egyptian artist, who represents this captive bellowing with rage and pain.

One of Mr. Gliddon's personal verifications on the Nile is here worthy of note. He observed that the fusion batween Nubian and modern Arab races is first clearly apparent, exactly where nature had placed the boundary-line between Egypt and Nubia: viz., at the first cataract. Here dwell the Shellalees, or "cataract-men"-descended, it is said, from intermixture between the Saracenic garrisons at Assouadn and the wromen of Lower Nubia. Persian, Greek, and Roman troops had been oonsecutively stationed there, centuries before the Arabs; while Earopean and American tourists at the present day coöperate vigorously to stem the blackening element as it flows in from the South. The Shellalees count perhaps 500 adults and children; and they are mulattoes of various hues, compounded of Nubian, Arab, Egyptian, Turkish, and European blood; whilst, incidentally, Negresses enter as slaves among the less impoverished families-their cost there seldom exceeding fifty dollars. But, the predominating color, especially among the female Shelalleeyeh, is a light cinnamon; and in both sexes are seen some of the most beautiful forms of humanity; as may be judged from the "Nubian Girl," so tastefully portrayed by Prisse d'Avesnes. ${ }^{32}$

This (Fig. 171) is the type of the NaHSU (Negroes), on a larger scale, among the four races in the tomb of Seti-Menbitha I.; before spoken of, and delineated at full length on pages
 85 and 249 , supra.

Beantifully drawn and strikingly contrasted, see two of the nine Asiatic and African heads (Fig. 172) smitten by king, Setr I., at

Fig. 172.34


Karmac. The Negro's features are true to the life, if we deduct the ancient defective drawing of the eye; as must be done in all copies of Egyptian art.

We next present (Fig. 173) one of the many proofs that Negro slavery existed in Egypt 1500 years b. c. An Egyptian scribe, colored

Fig. 178. ${ }^{315}$

red, registers the black slaves; of which males, females, and their children are represented; the latter even with the little tufts of wool erect upon their heads: while the leopard-skin around the first Negro's loins is grotesquely twisted so as to make the animal's tail belong to its human wearer.

In connection with this scene, which is taken from a monument at Thebes, Wilkinson remarks:-
"It is evident that both white and black slaves were employed as servants; they attended on the guests when invited to the house of their master; and from their being in the families of priests as well as of the military chiefs, we may infer that they were purchased with money, and that the right of possessing slaves was not confined to those who had taken them in war. The traffic in slaves was tolerated by the Egyptians; and it is reasonable to suppose, that many persons were engaged, as at present, in bringing them to Egypt
for public sale, independent of those who were seat as part of the tribate, and who were probably, at frst, the property of the monarch; nor did any difficulty ocear to the Iehmaelites in the purcbase of Joseph from his brethren, nor in hie subsequent enle to Polipbsr on arriving in Egypt"

In his comments on the antiquity of "eunuchs," Gliddon has extended these analogies of slavery among the Hebrews, and other ancient nations. ${ }^{316}$

We might thus go on, and add numherless portraits of Negro races. Hundreds of them are represented as slaves, as prisoners of war, as fugitives, or slain in large battle-scenes, \&e.; all proving that, as far back as the XVIIth dynasty, в. c. 1600 , they existed as distant nations, above Egypt.

Taken at random from the plates of Rosellini, the three subjoined portraits (Figs. 174, 175, 176) are submitted, to fortify our words.


The lotus-bud at the end of their balters means the word "south," in hieroglyphical geograpby: while tbeir varieties of physical conformation suffice to ghow that anciently, as at this day, the hasin of the upper Nile included many distinct Negro races.
It bas been for several years asserted ${ }^{317}$ by the authors of the present volume, and it is now finally demonstrated in Part II., that Negro races are never alluded to in ancient

Fia. 176.
 Jewish literature ; the Greek word "Ethiopia" being a false interpretation of the Hebrew KUSh, whicb always meant Southern Arabia, and nothing bat the Cushite-Arabian race.

The Greeks, of course, were unacquainted with the existence of Negroes until about the seventh century b. c.; when Psametic I. opened the ports of Lower Egypt to Grecian traffickers. Their "Ethiopians," sun-burned-faces, before that age, were merely any
people darker than a Hellene-Arabs, Egyptiana, and Libyana, from Joppa (Jaffa) westward to Carthage: nor, camels being anknown to the Carthaginians, as well as to the early Cyreneans, could Negroes have been brought across the Sahara deserts into the Barbary States, until about the first century before the Christian era. The only channel to the natural habitat of Negro races, (which never has lain geographically to the northward of the limit of the Tropical raine, or about $16^{\circ} \mathrm{N}$. lat.,) until camels were introduced into Barbary, after the fall of Carthage, was along the Nile, and through Eggpt exclusively. The Carthaginians never possessed Negro slaves, excepting what they may have hought in Egyptian bazaars; of which incidents we have no record. It is worthy of critical attention, that in the Periplus of Hanno, and other traditionary voyages outside the Pillars of Mercules, while we may infer that these Carthaginian navigators (innsmuch as they reached the country of the Gorille, now known to he the largest species of the chimpanzee, mast havo heheld Negroes also; yet, after passing the Lixita, and other "men of various appearances," they merely report the whole coast to be inhebited by "Ethiopians." n8 Now, the Punic text of this voyage being lost, we cannot say what was the original Carthaginian word which the Greek translator has rendered hy "Ethiopians;" bo that, even if Negroes he a very prohable meaning, these Atlantico-African voyages prove nothing heyond the fact that, in Hanno's time, b. c. five or six centuries, there was already great diversity of races along the northwestern coast of Africa, and that all of theni were atrange to the Carthaginiane.

It is now established, moreover, that the account given hy Herodotus of the Nasamonian expedition to the country of the Garamantes, never referred to the river Niger, but to some western journey into Mauritania; as we have explained in Part II.

Apart, then, from a few specimens of the Negro type that, as cunosities, may have heen occasionally carried from Egypt into Asia, there was but one other route througb which Negroes, until the times of Solomon, could have been transported from Africa into Aaiatic countries; viz.: hy the Indian Ocean, Persian Gulf, and Red Sea We have diligently hunted for archeological proofs of the existence of a Negro out of Egypt in such ancient times, and have found hut two instances; dependent entirely upon the fidelity of the superb copieb of Texier, and of Flandin.
In Texier's work ${ }^{319}$ we think a Negra, (in hair, lips, and facial angle, , may he detected as the last figure, on the third line, among the foreign supporters of the throne of one of the Achæmenian king at Persepolis. There is nothing improbable in the circumatance ; for
the vast Satrapies of Persia, in the fifth century b. c., extended into Africa. The more certain example we allude to is found in the sculptures of Khorsabad, or Nineveh; ${ }^{30}$ and probably appertains to the reign of Sabaan, b. c. 710-868. It is a solitary figure of a beardleas Negro with woolly hair, wounded, and in the act of imploring mercy from the Assyriang.

Tum we now to Roman authority.

Latin description of a Nzaniss, veritten early in the seond century gitare.
${ }^{\text {an }}$ Interdam clamat Cybulem ; erst voics costoo; $\Delta$ tra genas, tots patriem teetante figura; Torla comam, labroque tumena, at fusca colorem; Peotore lals, jocens mammis, compressior alvo, Cruribus exilis, spatiosa prodiga planta; Contincis rimis calennes scises rigebant."
"In the meanwbile be calls Cybale. She was the only [house-] keeper. African by race, her whole face atlesting her futher-land; with crisped hair, swelling lip, and blackish complecion; broed in cheet, with pendant duge, [and] very oontracted paunch; her apindle-shanks [conirasted mith her] enormous feet; and her cracked heals were aliffened by perpetaal clefu."

Eyppian dulineation of a Nrogish, aut and pained some 1800 yeare befort the Lation datription.


To Mr. Gustavus A. Myers, (an eminent lawyer of Richmond; Va., ) are we indebted for indicating to us this unparalleled description of a Negress; no less than for the loau of the volume in which an unapplied passage of Virail ${ }^{x 7}$ is contained. Through it we perceive that, in the second century after c., the physical characteristics of a "field," or agricultural, "Nigger" were understood at Rome 1800 years ago, ns thoroughly as by cotton-planters in the State of Alabama, still flourishing in A. D. 1853.

Time, as every one now can see, has effected no alteration, even by transfer to the New World, upon African types (save through amalgamation) for 3400 years downwards. Let us inquire of the Old continent what metamorphoses time may have caused, as regards such alleged transmutations, upwards.
About the sixteenth century d. c., Pharaoh Horus of the XVIIIth dynasty records, at Hagar Silsilis, his return from victories over Nigrition families of the upper Nile. ${ }^{\text {m }}$ The hieroglyphical legends above his prisoners convey the sense of - " KeSh , barbarian country, perverse race;"'expressive of the Egyptian sentimentalities of that day towards Nubians, Negroes, and "foreigners" generally.

Among his captives is the Negress already portrayed (Fig. 177); to whose bas-reliefed effigy we have merely restored one of the colors now effaced by time. We present (Fig. 178) a head indicative of her male companions, traced upon Rosellini's size; our
 reduction of her full-length figure being taken from the Prussion Denkmêler. ${ }^{\text {m }}$

Here, then, is a. Negress, sculptared and painted in Egypt about b. c. 1550, whose effigy corresponds with Virgil's description at Rome a little after A.D. 100 ; which female is identical with living Negresses, of whom American States, south of "Mason and Dixon's line," could produce many hundreds in the present year, 1853.

Have 3400 years, or any transplantations, altered the NEGRO race?
When treating of the "Caucasian" type, we were ohliged to jump from the XVIIth hack to the XUth dynasty, owing to the lack of intervening monuments, since destroyed hy foreign invaders. The same difficulty recurs with regard to Negro raccs. In fact, our materials here become atill more defective; for, although in the XIIth dynasty ahundant hieroglyphical inscriptions attest the existence of Negro nations, no portraita seem to be extant, of this epoch, upon whose coetaneous date of sculpture we can rely. That Negroes did, however, exist in the twenty-fourth century $\mathrm{f} . \mathrm{c}$., or contemporaneously with Usher's date of the Flood, we shall next proceed to show.

Aside from the Tablet of Wady Halfa, cut by Sesourtasen I., of the XIIth dynasty, (supra, p. 188,) we quoted from Lepsius (supra, p. 174), a paragraph illustrative of the diversity of types at this early period, of which the following is a portion rendered from his Briefe:

[^68]Mr . Birch kindly sent us, last year, an invaluahle paper, wherein the political relations of Egypt with Ethiopia are traced hy his masterly hand, from the earlicst times down to the XIXth dynasty. The "Historical Tablet of Ramses II.," from which the most recent facts are drawn, dates from the sixteenth year of a reign, that lasted upwards of sixty years. ${ }^{24}$ The subjoined extract is especially important, not only because demonstrative of the existence of Negroes as far back as the XIth dynasty, but also because it establishes the extended intercourse which Egypt held at that remote day (в. с. 2400-2100) with numerous Asiatic and African races.

[^69]the FVth and VIth Egeptian dyosaties，no traces occur of Elbiopian relations，and the frontier was probsbly at that time Eileithyin（El Hega）．So far indeed from the Egyptian civilization haring deacended the cataracts of the Nile，there are no monuments to show that the Egyptians were then even acquainted with the hlack rucea，the Nahsi as they were called．cs Some information is found at the time of the XIth dymasty．The base of a small statue insqribed with the name of the king Ra nub Cheper，apparently one of the monarchs of the XIth dynanty，whose prenomen was discopered by Mr．Harris on a atone built into the bridge at Coptos，intermingled with the Enuentefs，has at the sides of the throne on which it is seated Aeiatio and Negro prisoners．Cuder the monarchs of the XIfth dynasty，the past fortifications of Sempeh show the growing importance of 天thiopis， White the conqueat of the principal cribea is recorded by Sesertesen $L$ at the advanced point of the Wady Halfa．The most remarkable feature of this period are the bydraulic observations carefully recorded under the last monarehs of the line，and their auccessora the Sebakhetpa of the XIIIth dynasty．a tablet in the Britiah Museam，dated in the reign of Amenemha I．bas an account of the miniag services of an offioer in Ethiopis at that period．＇I worked，＇he aays，＇the mines in my youth；I have regulated all the chiefs of the gold washings ；I brought the metal penetrating to the land of Phut to the Nahei．＇It is prohably for these gold miees that we find in the second year of Amenemha IV．an officer bearing the same name an the king，stating that be＇was invincible in his majesty＇s heart In smiting the Nahai．＇In the nineteenth year of the same reign were victories over the Nabsi．At the earliest age $x$ thiopie was densely colonized，and the gold of the region deacended the Nile in the way of commerce；hat there are no dight difficulties in koowing the exact relations of the two countries．
＂The age of the XVIIIth dynasty is separated from the XIIth hy an interral during which the remnins of certinin monarchs named Sebakhetp，found in the ruins of Nulin， ahow that they were at least Fthiopian rulera．The most important of the monuments of this age is the propylon of Monat Barkal，the ancient Napata，huilt by ties so－called S －men－ Ken，who is represented in an allegorical picture vanquishiog the Athiopians and Asiacics． The XVILIth dynanty opened with foreign wars，The tablet of Aakmes－Pensuben in the Lourre records that he had taken＇two hands，＇that is，had killed two Negroes personally in Kish or 历thiopia．More information，and parlicularly bearing upon tbe Tablet of Remeses，is afforded by the inserription of Eilethyia，now publishing in an excellent memoir by M．de Rouge，in the line，＇Moreover，＇says the officer，＇Then his majesty attacked the Mens－en－shas，＇or Nomade，＇and when he stopped at Penti－han－nefor to cat up the Phut， and when he made a great rout of them， 1 led captives from thence two living men and one dead（band）．I was rewarded with gold for victory agrin；I received the captives for olaves．＇During the reiga of Amenophis $L$ ，the succeasor of Amosis，the Louvre tablet informs that he had taken one prisoner in Kesh or Ælhiopis．At El Hegs，the funclionary states，I I was in the feet of the king－the sun，disposer of existence（Amenophis I．），jus－ tifed；be anchored at Kush in order to enlarge the frontiers of Kami，he was smiting the Pbut with his troopa＇Mention is subsequently made of a victory，and the capture of prisoners．It in interesting to find here the seme place，Penti－han－nefer，which occura in a Plolemnic inscription on the weat wall of the pronaos of the Temple of Philw，where Isis Ls represented as＇the migtrens of Senem and the regent of Pent－han－nefer．＇From this it is evident that these two places were close to anch other，and that this locality was near the site more recently called Ailak or Phile．The epeos of this moanrch at Ibrim，the chapels at Tennu，or the Gehel Selseleh，show that the permanent occupation of Nubia at the age of the XVILIth dyoasty extended beyond Phile．Several small tesserce of this reign represent the monarch actually ranquishing the Athiopians．
＂The immediate successore of Amenophis occupied themselves with the conquest of 历thi－ opia．There is a gtatue of Thothmes I．in the island of Argo，and a tablet dated on the 15 Tybi of his second year at Tombos．The old temple at Samneb was repaired and dedi－ cated to Sesertesen IIL，supposed by some to be the Sesostris who is worabipped by Thoth－
mes III. es the god Tat-an, or 'Yong Tat' It is at the temple of Samneh that the trat indication occurs of that line of princes who raled over Asthiopis, by an officer who had serred under Amosis and Thathmea I., in which last reign be had been appointed Prince of AEthiopia. The reign of Thothmes IIL ehowithat Kuah figared on the reguler rent-roll of Egypt. The remains of the matilated account of the fortieth regas year of the ling ia mentioned as ' 240 oonces' or 'mpastres of cut precious stones and 100 ingots of gold' Subsequeatly 'two canes' of some valuable kind of wood, and at least ' 800 ingots of gold,' are mentioned as coming from the same people. It sppeare from the tomb of Rech-sbers, who was usher of the Egyptian court at the time, and whe had duly introduced the tributebearers, that the quota paid from thia coontry was bags of goid and gems, monkeys, pm-ther-skins, loge of ebony, tasks of ivory, ostricb-eggo, ostrich-feathers, eameloparda, dogor oxen, slaves. The permanent occupstion of the coantry is at the same tme atteated by the conatructions Fhich the monareh made, at Bamneb, and the Wady Halfa At Ibrim, Nehi, prince and govemor of the South, s monareh, beal-bearer, and coungellor or ennuch, leads the ususl tribute mentioned as 'of gold, ivory, and ebong' to the king. Set, or Typhon, called 'Nub' or 'Nub-Nub,' Nubia, instracts hitn in the art of dresping one of those long bova which these people, according to the legend, contemptrounly presented to the envoys of Cambyses. The successor of this mocarch seems to have held the same extended territory, slnce, in the fourth year of his reign, these limils are mentioned, and some blocks with the remains of a dedication to the local deitits. One of the rock temples at lbrim Win excavated in the reign of Amenophis II. by the Prince Naser-get, who was ' monareh' (ropa ha), 'chief connsellor' (sabss shat), and 'governor of the landa of the south.' The wall-paintinge represent the uarsl procesaion of tribate-bearers to the king, with gold, silver, and animals, some of mhom, as the jackals, were enumernted. The name monarch continued the temple at Amade, and a colosssl figare of bim, dedicated to Chnumis and Athor, and sculptared in the form of Phthe or Vulcan, has been found at Fegghe, and in the fourth year of his reigo the troils of the empire are atill placed as Mesopotamis on the porth, and the Kalu or Gallex on the south.
" In the reign of bis successor Thothmes IV. a servent of the king, epperently his charioteer, states he bad attended the king from Naharsina on the north, to Kalu, or the Galla, in the south.
"The constructions of this monareh at Amade and at Samneh, show that tribute caroe at the same time from the chiefs of the Naharains on the north, and aleo from Rthiopia. Thia is ahown by the tombe of the military chiefs lying near the hill which is ailuate botween Medinat Haboo and the bouse of Jani, one of whom had exeroised the office of royal seribe or secretary of state, from the reign of Thothmes III. to that of Amenophis IIL The reign of his anccessor, the last mentioned monsreh, is the most remarkable in the monumental bistory of Egypt for the Athiopian conquests. The marriage scarabei of the king place the limits of the empire as the Naharaing (Mesopotamia) on the north, and the Karu or $K a l u$ (the Gisltw) un the sonth. Althongh these limite are found, yet it is erident from the number of prisoners recarded that the Egyptian rule was hy no means a settled one. They are Kish, Pet or Phat, Pamaui, Patamakai Varuki, Tara-at, Bara, . . . kabe, Aruks, Makaiuseh, Matakerbn, Sahabu, Babbara, Ru-nemke, Abletu, Turusy, Shemruehnk, Akenes, Serunik Karases, Bheul, Buks, Bhan, Taru Taru, Turabu, Turubenke, Akenes, Ark, Ur, Mar.

Amongat these ntamea will be seen fo the list of the Pedeatal of Paris that of the Aksiat or Aks-ta, a name much resernhliog that of the Ath-agan, which is still preserred in the Agow or Agowe, a tribe near the sources of the Mlae Nile. Amenophis appeary by no means to bave neglected the conquesis of his predecessors, and his advance to Sokeh, in the province of El Bokhot, and Elmabah, proves that the influence of Egypt wea still more extended than in the previous relgos.
"In the reign of Amenaphin, Etbiopin appears to have been governed by a viceroy, who whs an Egyptian officer of state, generally a rojel scribe or military chief, sent down for
the purpose of administering the country ; the one in this reign bore the name of Merimes, and appears to have ended his days at Thebes, as his sepulchre remains in the western hills. He was called the sa suten en Kush, or prince of Kush, which comprised the tract of country lying south of Elephantina. In all the Ethnic lists this Kash or LEthiopia is placed next to the head of the list, ' all lands of the south,' and its identity with the Biblical Kush is universally admitted. It is generally mentioned with the haughtiest contempt, as the vile Kush (Kash kh'aus,) or Kthiopia, and the princes were of red or Egyptian blood. They dutifully rendered their prosoynemata to the kings of Egypt." ${ }^{306}$
[Substantial reasons may be found in our Part II. for questioning a somewhat unlimited extension of the Biblical KUSh, which certain opponents might draw from Mr. Birch's language. The hieroglyphical name for Negroes is Nahsu, or Nahsi; and, on the other hand, the Egyptian (not the Hebrew) word KiSh, KeSh, KaShI, ${ }^{37}$ was applied to the ancient Barabra of Nubia, between the first and second cataracts, specifically; and sometimes to all Nubian families, generically. The vowels $a, e, i$, $o$, in antique Egyptian no less than in old Semitic writings, when not actually inserted, are entirely vague: nor is the hieroglyphical word ever spelt $k$ Ush, like the Hebrepw designation "Cush;" which is maltranslated by "Ethiopia," because it denotes Southern Arabia. - G. R. G.]

The authors regret that their space compels them to abstain from reproducing the archæological references with which Mr. Birch supports his erudite conclusions.

Ethnological science, then, possesses not only the authoritative testimonies of Lepsius and Birch, in proof of the existence of Negro races during the twenty-fourth century в. c.; but, the same fact being conceded by all living Egyptologists, we may hence infer that these Nigritian types were contemporary with the earliest Egyptians. Such inductive view is much strengthened by a comparison of languages; concerning the antiquity of which we shall speak in another chapter.

To one living in, or conversant with, the Slave-States of North America, it need not be told, that the Negroes, in ten generations, have not made the slightest physical approach either towards our aboriginal population, or to any other race. As a mnemonic, we here subjoin, sketched by a friend, the likenesses of two Negroes (Figs.

Fig. 179.


Fig. 180.


179,180 ), who ply their avoeations every day in the streets of Mobile; where anybody could in a single morning collect a hondred others quite as strongly marked. Fig. 179 (whose portrait was caught when, chuckling with delight, he was "shelling out corn" to a favorite hog) may be considered earicatured, although one need not travel far to procure, in daguerreotype, features fully as animal; but Fig. 180 is a fair average sample of ordinary field-Negroes in the United States.

Mr. Lyell, in common with tourists less eminent, but in this question not less misinformed, has somewhere stated, that the Negroes in America are undergoing a manifest improvement in their physical type. He has no doubt that they will, in time, show a development in skull and intellect quite equal to the wbites. This nnscientific assertion is disproved by the cmnial measurements of Dr. Morton.

That Negroes imported into, or horn in, the United States hecome more intelligent and better developed in their physique generally than their native compatriote of Africa, every one will admit; but sucb intelligence in easily explained by their ceaseless contact with the whites, from whom they derive much instruction; and such physical improvement may also be readily accounted for by the increased comforts with whicb they are supplied. In Africa, owing to their natuml improvidence, the Negroes are, more frequently than not, a half-starved, and therefore half-developed race; but when they are regularly and adequately fed, they become healthier, better developed, and more humanized. Wild horses, cattle, asses, and other brutes, are greatly improved in like manner by domestication: but neither climate nor food can transmute an ass into a horse, or a buffalo into an ox.

One or two generations of domestic culture effect all the improvement of which Negro-organism is susceptible. We possess thousands of the second, and many more of Negro families of the eighth or tenth generation, in the United States; and (where unadulterated by white blood) they are identical in pbysical and in intellectual characters. No one in this country pretends to distinguish the native son of a Negro from his great-grandchild (except tbrough occasional and everapparent admixture of white or Indian blood); wbile it requires the keen and experienced eye of such a comparative anatomist as Agassiz to detect structural peculiarities in our few African-born slaves. The "improvements" among Americanized Negroes noticed byo Mr. Lyell, in his progress from South to Nortb, are solely due to those ultra-ecclesiastical amalgamations which, in their illegitimate consequences, have deteriorated the white element in direct proportion that they are said to have improved the black.

But, leaving aside modern quibbles upon simple facts in zature, (so often distorted througb philanthropical panderings to political ambi-
tion), we select, from Abrahnmic antiquity, two other heads (Figs. 181, 182) which, although not Negroes, constitute an interesting link in the gradation of races; heing placed, geographically and physically, between the two extremes.

Fig. 181.


This specimen (Fig. 181) is from the "Grand Procession" of Thotmes III.-XVIIth dynasty, about the sisteenth century в. c. The original leada a leopard and carries ebony-wood: and his skin is ash-colored in Rosellini. ${ }^{28}$ The same scene is given in Hosking's Ethiopia, where this man's person is improperly painted red. ${ }^{\text {Ta }}$ He is again figured without colore by Wilkinson, ${ }^{30}$ no less than by Champollion-Figeac. ${ }^{3 n}$ He is another sample of those "gentes subfusci coloris"-abounding around Ethiopia, ahove Egspt - neither Negro, Berberri, nor Abyssinian; but of a race affiliated prohably to the latter; judging, that is, hy characteristics alone, in the ahsence of hieroglyphical explanations now effaced by time.

Pia. 182.


Here we hehold (Fig. 182), undoubtedly, s true Abysainian, who should he represented, as he is at Thebes, orange-color. ${ }^{32}$ We have the valid authority of Pickering ${ }^{\text {ro }}$ on this point; who concludes his chapter on Abyssinians as follows: -
"It seeuse, however, that the true Abyssinian (as firat pointed out to me by Mr. Gliddon) has boen meparately and distinctly figured on the Egyptinn monaments: in the two men leading the oamelopard in the tribute procession of Thoutmosis III.; and this opinion wes confrued by an examination of the original palnting at Thebee"
Pickering's Races of Men contains a heoutiful cinnamon-colored portrait of an Abyssinian warrior, taken by Prisse; and, as before remarked, offers to the reader a good idea of tho living type of this people.
It is worthy, too, of special note, that the ahove Fig. 182 is represented, in the Theban procession, leading a giraffe; which animal is not met with nearer to Egypt than Dongola; a fact that fixes his parallel of latitude along the Abyssinian regions of the Nile. Such heads seem to confirm the fidelity of Egyptian draughtamen, together with the correctness of their ethnographical conceptions and varied
materials. Our Abyssinian head exhibits the same form and color as the present race of that country, even after the lapse of 8300 years; and it stands as another proof of the permanence of human types.

Conceding the extreme probability of Birch's conjecture, that the Negro captives discovered by Mr. Harris belong to the XIth dynasty, (which thus would place the earliest known effigies of Negroes in the twenty-fourth or twenty-fifth century B. c.,) we cannot lay hold of the indication as a stand-point; because the sculpture may (through circumstances of recent masonry) be assigned to a later age. But, of one fact we are made certain by Birch's former studies: ${ }^{34}$ viz., that the officers or superintendents appointed by the Pharaohs to regulato their Nubian provinces, were invariably Egyptians, painted red, and never Nigritians of any race whatever. The title "Prince of KeSh" was that of Egyptian viceroys, or lord-lieutenants, nominated by the Diospolitan government to rule over distant territories occupied by Nubians and Negroes of the austral Nile.

In the Theban tomb, opened previously to 1830 by Mr. Wilkinson, (about the epoch of which the theory of an Argive, "Danaus," ${ }^{35}$ led him into some odd hallucinations), and critically examined in 1839' 40 by Harris and Gliddon, there was an amazing collection of Negro scenes. A Negress, apparently a princess, arrives at Thebes, drawn in a planstrum by a pair of humped oxen - the driver and groom being red-colored Egyptians, and, one might almost infer, eunuchs. ${ }^{39}$ Following her, are multitudes of Negroes and Nubians, bringing tribute from the Upper country, as well as black slaves of both sexes and all ages, 'among which are some red children, whose fathers were Egyptians. The cause of her advent seems to have been to make offerings in this tomb of a "royal son of KeSh - Amunoph," who may have been her husband. The Pharaoh whose prenomen stands recorded in this sepulchral habitation is an Amenophis; ${ }^{37}$ but, beyond the fact that his reign must fall towards the close of the XVIIIth

Fic. 188.


Fia. 184.38

dyonsty, and about the times of the "disk-heresy," we were not aware that his place could be determined, until we opened the Denkmailer; where the major portion of these varied African suhjects, unique for their singularity sad preservation, are reproduced in brilliant colors. We have already chosen a Semitic head, deemed by us to present Phœenician affinities (supra, p. 184, Fig. 90), from sculptures of the same timea. We here repeat it (Fig. 183), for the sake of contrasting its type with a Negro, and a Nubian apparently (Fig. 184), taken from the ménagerie of African curiosities above mentioned. We say apparently, because the slighter shade, given by Esyptian artists to figures grouped closely together, sometimes srises from the necessity of distinguishing the interlocked limbs, sc., of men of the same color. Instances may be found, of this attempt at perspective, in various colored acenes indicated in the notes ${ }^{50}$ so that the unblackened face in our Fig. 184 may be that of a Negro also.

For the sake of illustrating that, even in Ancient Egypt, African alavery was not altogether unmitiguted by moments of congenial enjoyment; not always inseparahle from the lash and the hand-cuff; we suhmita copy of some Negroes "dancing in the atreets of Thehes" (Fig. 185), hy way of archæological evidence thdt, 3400 years ago; (or before the Exodue of Larael, в. с. 1322), "de arme ole Nig. ger" of our Southern plantations conld spend his Nilotic sabbaths in saltatory recreations, and
> "Tarn about, and wheel about, and jump Jim Crow $\mathrm{C}^{\prime \prime}$

Before closing our comments upon "Ethiopians," it is due to the memory of the author of Crania Agyptiaca not to omit some notice of two

problems that attracted his penetrating researches. The first concerns the ancient Meroites; the second, that mixed family in which, under the name of "Austral-Egyptians," Morton perceived some possibly-Hindoo affinities. Commencing with the former question, we recall to mind how the discoveries of the Prussian Scientific Mission (aupra, p. 204), in and around the far-famed Isle of Meroë, have relieved archæologists from further discussions as to the illusory antiquity of a realm that, previously to the eighth century b.c., was merely a Pharaonic province and an Egyptian colony ; and which, moreover, did not become important, as an independent kingdom, until Ptolemaic times. It was not, however, until after the publication of his Egyptiaca (of which Chevalier Lepsius received a first copy, together with Gliddon's Chapters, under the pyramid of Gebel Birkel, in Ethiopia itself ${ }^{34}$ ), that Dr. Morton was informed, by the Chevalier directly, of results so demolishing to the learned tbeories of Heeren, Prichard, and other scholars. Unhappily for science, deatb arrested the hand of our illustrious friend before it could register the emendations consequent upon such immense changes in former historical opinions. Although one of the authors (G. R. G.) has, in the interim, enjoyed the advantage of beholding, at Berlin, the sculptures brought from Ethiopia, and of hearing Chevalier Lepsing's criticisms, viva voce, upon Meroite subjects, we deem ourselves peculiarly unfortunate that the Denkmäler, so far as its livraisone have reached us, has not yet comprised copies of these newly-discovered has-reliefs. We are unahle, at present, thercfore, to demonstrate to the reader, by the reproduction of portraits of Queen Candace and her mulato court, the true causes why the civilization of Meroë declined, and finally became extinguished: viz., owing to Negro amalgamations, during the first centuries of our era. This fact may serve as a topic for some future Appendix to our volume.

Fia. 186.


To obviate, however, any argument respecting Meroïte affinities with regard to Negro races in anterior times, we reproduce the portrait of Manetho's "Ethiopian" sovereign, Tirhaka (supra, p. 151, Fig. 71); the "Melek-KUSh, or Cushite king (2 Kings, xix. 9); eontemporary with the Asgyrian Sennacherih, whose likeness has also been submitted under our Fig. 27 (supra, p. 130.)

Nor did the bigh-caste liueaments of these "Ethiopian" princes, and
the total absence of Nigritian elements in the physiognomies of all Meroites, as known in 1844, escape Morton's attention. ${ }^{30}$ His comments on the accompanying effigies from Meroë suffice.

Fia. 187. 20


Fig. 188.34


Fia. 189.34
troknown king), has mired lineamenta, neither atricily Pohegic nor Egyptian; while the righthand personige [ Fig. 188], who appears to be a prieat doing homage, prosents a countenance which corresponds, in easentiala, to the Egeptian typer, alluough the profile approsebes closely to the Greciant The andexed head [Fig. 189-is] aloo a king. bearing some resemblance to the one sbove figared."

With regard to the "Hindoo" resemblances perceived hy Morton in certain Egyptian crania of his vast collection, while we will neither affirm nor deny them, the authora cannot but think that their lamented colleague was herein hiassed, rather hy traditionary data (even yet supposed to be historical), than by anatomical evidences which, at any rate, do not strike our eyes as salient. Indeed, we know personally that, had Morton lived, Prichard's scholastic learning, but pertinacious igoorance of hicroglyphical Egypt, would have been dealt with as by ourselves, under full recognition of the one, and through respectful exposure of the other. Part III. of our volume renders it unnecessary to dwell, in this place, upon Sir W. Jones's Oriental erudition, or upon Col. Wilford's self-delusions, in respect to now-exploded connections between ancient India and primordial Egypt.

The Greek tradition (Latinicè) runs as follows: "Athiopes, ab Indo fluvio profecti, supra Agyptum sedem sibi eligerunt." ${ }^{\text {as }}$ But, who are these Ethiopians of At most, Asiatic "bun-burned faces"-some
people, darker in hue than Greeks, who emigrated from the Indus. The era, assigned for their migration to countries south of Egypt, is attributed to that of one among many Pharaohs, called by Grecian narrators "Amenophis;" and the legend reaches us through a Byzantine monk, the Syncellus (writing 2000 years after the events), at once the most diligent, and the least critical, compiler the seventh century of our era produced. To say the least, the historical surface we tread on trembles, as though it floated over a quagmire. These doubts suggested, we submit extracts from the Crania AFgyptiaca : -
"I observe, among the Egyptian crania, some which differ in nothing from the Hindoo type, either in respect to size or configuration. I have already, in my remarks upon the ear, mentioned a downward elongation of the upper jaw, which I have more frequently met with in Egyptian and Hindoo heads than in any other, although I have seen it occasionally in all the races. This feature is remarkable in two of the following five orania ( $\mathrm{A}, \mathrm{B}$ ), and may be compared with a similar form from Abydos." $347^{\circ}$

Fia. 180.


Fia. 191.


Fig. 192.

"It is in that mixed family of nations which I have called Austral-Egyptian that we should expect to meet with the strongest evidence of Hindoo lineage; and here, again, we can only institute adequate comparisons by reference to the works of Champollion and Rosellini. I observe the Hindoo style of features in several of the royal effigies; and in none more decidedly than in the head of Asharramon (Fig. 191), as sculptured in the temple of Debod, in Nubia. The date of this king has not yet been ascertained; but, as he ruled over Meroë, and not in Egypt, (probably in Ptolemaic times [B. c. 200-800], he may be regarded as an illustration of at least one modification of the Austral-Egyptian type.
"Another set of features, but little different, however, from the preeeding, is seen among the middling class of Egyptians as pictured on the monuments, and these I also refer to the Hindoo type. Take, for example, the four annexed outlines (Fig. 192), copied from a sculptured fragment preserved in the maseum of Turin. These effigies may be said to be essentially Egyptian ; but do they not forcilly remiod us of the Hindoo?"

So great is our respect for Morton's judgment ; such manifold experiences have.we acquired of his perceptive acuteness in craniological anatomy, that we should prefer the affirmatory decisions of others relative to this Hindoo-Meroite problem, to any negation on our own parts.

The preceding brief digressions enable us to leave Meroë, and resume with a more positive, because osteological, proof of the perdurable continuance of the Negro type.

This semi-embalmed cranium of a Negress '(Fig. 193), from Morton's. cabinet, is preserved at the Academy of Natural Sciences in Philadelphia. Beyond the fact that mummification ceased towards the fifth century of our era; and that, being from an ancient tumulus at the sacred Isle of Beghe, the female owner of the annexed skull may
 have been a domestic slave of some "Ethiopian" worshipper at the shrine of Osiris, on the adjacent Isle of Philæ; all that can be said as to the antiquity of our specimen confines it to a period between the fourth century b. c. (when Pharaoh Nectanebo founded the temple of Philæ), and the extinction of embalming, coupled with the substitution of Christianity (as understood by "Ethiopians,") for the religion of Osiris, about the fifth century after c. ${ }^{39}$ Fifteen hundred years may, therefore, be assumed as the reasonable lapse of time since this aged Negress was consigned to the mound where hundreds of other Osirian pilgrims lie, coarsely swathed in bitumenized wrappers. The specimen is unique in the annals of Egyptian embalmment; inasmuch as no other purely-Negro vestiges have as yet turned up in tumuli or catacombs.

Trivial to many as the incident may seem, Science, nevertheless, can make "these dry bones speak" to the following points. First, they establish Nigritian indelibility of type, even to the woolly hair; because, our American cemeteries could yield up thousands of heads identical with this woman's. Secondly, they attest the comparative paucity of Negro individuals in Egypt during all ancient times; because, although the priests embalmed every native pauper, such Nigritian mummies have never, that we can learn, been discovered by ransackers of that country's sepulchres. And, thirdly, as this skull is a solitary exception, among millions of mummies disinterred, it domonstrates that the Egyptians possessed no craniological proximity
to those Negro types with whom their existence was ever coeval. Indeed, this head was not found in Egypt proper, but immediately above the first cataract in Lower Nubia.

As Mr. Birch has mentioned,
 in the extract previously given, history reposes upon the Tablet of Wadee'Halfa for the conquest of Upper Nubis; and also for the earliest monumental rencontre with Negroes, by Sksourtasen I., second king of the X】th dynasty, near about 2348 years B. c.; which is the authorized date of the Deluge in King James's version. The tablet is small, and very much abraded; but, Morton having enlarged the royal portrait, ${ }^{30}$ we repeat it here, for what it may be worth ethnologically. It proves, at least, that Srbodrtaskn's lineaments were anything but African.

The heads of austral captives, summounting shields in which their national names are written, exist in this tablet, too motilated for us to distinguish anything beyond the African contour of their features. Birch ${ }^{351}$ reads their cognomins -
"1. Kat, or Gas.
2. Shentin or Tmiti.
3. Chasac.

It tberefore becomes settled by the hieroglyphics, that the Egyptians bad ascended the Nile, and had encountered Negro-races, at least as far back as the twenty-fourth ceatury в. c.

We can now aidd a most extraordinary fact, aince discovered by Viscount De Rouge, to the extracts we have culled from Birch's memoir. An inscription on the rocks near Samneh, in Nubia, ${ }^{35}$ cut by Sesourtesen III. (of the same XIIth dynasty-about 2200 в. c.), in the "VIIIth year" of his reign, establishes that he had then extended the southern frontier of Egypt to that point, viz., the third cataract; whereas his predecessor, Sesourtesen I., had only guarded the passes at Wadee Halfa, the sceond cataract, some 180 miles below. M. De Rongé, ${ }^{20}$ with that felicitous acumen for which heis renowned, reads a passage in this inscription as follows: -
"Frontier of the South. Done in the gear VIII., under King Sesourtesen [III.], ever living; in order that it may not be permitted to any Negro to pass by it in navigating" [down the river].

The repugnance of the Egyptians towards Nigritian races, exhibited in their epithet of "NaLISI - barbarian country, perverse race," becomes now a solid fact in primeval history; at the same time that the above inscription proves conclusivelydhow, just about 4000 years ago, the geographical babitat of Negroes commenced exactly where it does at tbis day: viz., above the third cataract of the Nile.

We have shown, by their portraits, that the three "Ethiopian" kings (Sabaco, Sevechus, and Tarhaka) of the XXVth dynasty, b. c. 719-695), possess nothing Negroid in their visages. Meroë, as Lepsius has determined irrevocally, became an independent principality at a far later day; and, so soon as she was cut off from Egyptian blood and civilization, the influx of Negro concubines deteriorated her people, until, by the fifth century after Christ, she sank amid the billows of surrounding African harbarism, mentally and pbysically ohliterated for ever.

To our lamented countryman, Morton, belongs the honor of first rendering these data true as axioms in the science of anthropology. Our part bas heen to demonstrate that the principles of his method were correct, as well as to support them with fresher evidences than he was spared to investigate. At the time of the publication of the Crania Fegyptiaca, the "Gallery of Antiquities in the British Museum. ${ }^{35}$ had not reached him; eonsequently he was not then aware that the vast tahleau from Beyt-l-Whlee, out of which he had selected the following heads (Fig. 151) stands, moulded in facsimile and beautifully colored, on the walls of an Egyptian hall in that great Institution. The copy lies hefore us, elueidated hy Mr. Birch's critical description. Here Negroes and Nubiant are painted in ail shades - hlacks and browns; while the red (or color of honor) is given to the Egyptians alone.

With these emendations, which unfortunately the nature of our fork does not permit us to portray in colors, Morton's own words and wood-euts may appropriately close this chapter on the Negro Type: -

[^70]Fia. 195.

inverted cones, precisely like those now worn by the Negroes of Madagascar, as figured in Botteller's Voyage.
" In the midst of the vanquished Africans, standing in his car and urging on the conflict, is Rameses himself; whose manly and beautiful countenance will not suffer by comparison with the finest Caucasian models. The annexed outline (for all the figures are represented in outline only), will enable the reader to form his own conclusions respecting this extraordinary group," which dates in the fourteenth century before the Christian era. ${ }^{366}$

Fig. 196.


The authors confidently trust, that the antiquity of Negro races, no less than the permanence of Negro types, during the $(1853+2348)$ 4201 years that have just elapsed since Usher's Flood, are questions now satisfactorily set at rest in the minds of lettered and scientific readers. A parable, thrown back among our notes, ${ }^{37}$ suffices to illustrate popular impressions in regard to the cuticular and osteological changes produced by climate, and in reapect to the philological metamorphoses caused by transplantation, upon human races aboriginally distinct. It is not incumbent upon us to inquire, whether the delusions, generally current upon such very simple matters of fact, are to be ascribed to intellectual apathy among the tanght, or to ignorance and mystifications among their teachers.

At the close of Chapter VI. (supra, p. 210), in reference to the permanency of Asiatic and African types in their respective geographical gradations, we asked, "Within human record, bas it not always been thus?" Every national tradition, all primitive monuments, and the whole context of ancient and modern history, answer affirmatively for each of those parts of the old continents hitherto examined. Deviations from the hitorical point of view requiring no notice, at the present day, by any man of science, it would be sheer waste of time to discuss them. We lose none, therefore, in passing over at once to that continent which no students of Natural History now miscall "the New."

## CHAPTERIX.

## american and other types, - Aboriginal races of america.

The Continent of America is often designated by the appellation of the New World; but the researches of modern geologista and archeologists have shown that the evidences in favour of a high antiquity, during our geological epoch, as well as for our Fauna and Flora, are, to say the least, quite as great on this as on the eastern hemisphere. Prof. Agrssiz, whose authority will hardly he questioned in matters of this kind, tells us that geology finds the oldest landmarks here; and Sir Charles Lyell, from a mass of well-digested facts, and from the corroborating testimony of other good authorities, concludes that the Mississippi river has heen running in its present bed for more than one hundred thousand years. ${ }^{38}$ The channel cut hy the Niagara river, below the Falls, for twelve miles through solid rock, in the
estimation of the same distinguished author, as well as of others, gives no less satisfactory proof of the antiquity of the present relative position of continents and occans.

Dr. Bennet Dowler, of New Orleans, in an interesting essay, ${ }^{20}$ recently published, supplies some extraordinary facts in confirmation of the great age of the delta of the Mississippi, assumed by Lyell, Riddell, Carpenter, Forshey, and others. From an investigation of the suceessive growtbs of cypress forests around that city, the stamps of whicb are still found at different depths, directly overlying each other; from the great size and age of these trees, and from the remains of Indian bones and pottery found below the roots of some of these stumps, he arrives at the following conclusion : -

[^71]The delta of the Alabama river hears ample testimony to the same effect. Along the Mobile river and bay we find certain shell-fish, whose relative positions are determined at present, as they always have been, by certain physical conditions, viz.: the unio and paludina, the gnathodon, and the oyster. The first are always found above tide-water, where the water is perfectly fresh; the second flourishes in brackish water alone; and the oyster never but in water that is almost salt. As the delta of the river has extended, they have each greatly changed their havitats. The most northern habitat, at the present day, for example, of the guathodon, stands about Choctaw Point, one mile below Mobile; wherens we have abundant evidence that it formerly existed fifty miles above. The nnio, paludina, and oyster have changed positions in like manner.

Immense beds of gnathodon shells are fonnd, and in the greatest profusion, all along the const of the Gulf of Mexico, where they have doubtless been deposited by Indians in former times. Great numbers of these beds exist on the Mobile bay, and along the river, for fifty miles above the city, where only a scattering remnant of the living species is atill found. The Indians had no means for, and no objeet in, transporting such an immense number fifty miles up the river; and we must, therefore, conclude that the Mobile bay once extended to the locabity of these upper "shell banks;" and that the Indians had collected them for food, near where these banks are now beheld. One strong evidence of this conclusion is gathered from tbe fact, that the different artificial beds of the unio, the gnathodon, and the oyster, are never here formed of a mixture of two or more shells; which would be the case if their locations bad been near ench other.

That these beds are of Indian origin is clear, from the fact that the shells have all been opened, and that we find in them the marks of fire, extending over considerable spaces-the shells converted into quick-lime, and mingled with cbarcoal, so that the auccessive aceumulations of shells may be plainly traced. ${ }^{30}$ Fish-bones and other remains of Indian feasta are common : i. e. fragments of Indian pottery; and of human bones, which can be identified by their crania.

Some of these beds are covered over by vegetable mould, from one to two fect thick, which must have been a very long time forming; and upon tbis are growing the largest forest trees, beneatb whose roots these Indian remains are often discovered. It is more than probabie, too, that these huge trees are the auccessors of former growths quite as large.

We cannot, by any conjecture, approximate, within many centrries, perbaps thousands of years, the time consamed in thus extending the delta of the Alabama river, and in producing the changes we have hinted at; nor dare we attempt to fix the time at wbicb the Red men fed upon the gastiodons that compose the first beds to which we have atluded.

It is worthy also of special remark that the gaathodon, of wbich a few surviving specimens still endure along the Gulf coast of Florida, Alabama, and Mississippi, was once a living species in the Cbesapenke bay; but has been so long extinet that it now exista there only in a fossil state. This would extend the living fauna very mucb farther hack than the Chesspeake deposits: all our recent sholls, or nearly all, being found in the pliocene, and many shells in still earlier formations. Such facts, witb many otbers of similar import, which might be adduced, point to a chronology very far beyond any heretofore received: and who will doubt tbat, when the Missiseippi, Alabama, and Niagara rivers first poured their waters into the ocean, a fauna and a flora already existed? and, if so, why did not man exist? They all belong to one geological period, and to one creation.

These authorities, in support of the extreme age of the geological era to which man belongs, though startling to the unscientific, are not simply the opinions of a few; but sucb conclusions are substantially adopted by the leading geologists everywhere. And, although antiquity so oxtreme for man's existence on earth may shock some preconceived opinions, it is none the less certain that the rapid accumulation of new facts is fast familiarizing the minds of the scientific world to this conviction. The monuments of Egypt have already earried us far heyond all chronologies heretofore adopted; and when these barriers are once overleaped, it is in vain for us to attempt to approximate, even, the epocb of man's creation. This conclueion is
not based merely on the researches of such archæologiste as Lepsins, Bunsen, Birch, De Longpérier, Humboldt, \&c., but on those, also, of strictly-orthodox writers, Kenrick, Hincks, Osbum; and, we may add, of all theologians who bave really mastered the monuments of Egypt. Nor do these monuments reveal to us only a single race, at this early epoch in full tide of civilization, but they exhibit faithful portraits of the same African and Asiatic races, in all their diversity, which hold intercourse with Egypt at the present day.
Now, the question naturally springs up, whether the aborigines of America were not contemporary with the earliest races, known to ng, of the eastern continent? If, as is conceded, "Caucasian," Negro, Mongol, and other races, existed in the Old World, already distinct, what reason can be assigned to show that the aborigines of America did not also cxist, with their present types, 5000 years ago? The naturalist must infer that the fauna and flora of the two continents were contemporary. All facts, and all analogy, war against the supposition that America should have been left by the Creator a dreary waste for thousands of years, wbile the other half of the world was teeming with organized beings. This view is also greatly strengthened hy the acknowledged fact, that not a single animal, bird, reptile, fish, or plant, was common to the Old and New Worlds. No naturalist of our day doubts that the animal and vegctable kingdoms of America were created where they are found, and not in Asia.

The races of men alone, of America, bave been made an exception to this general law; but this exception cannot be maintained by any course of scientific ressoning. America, it will he remembered, was not only unknown to the early Romans and Greeks, but to the Egyptians; and when discovered, less tban four centuries ago, it was found to be inhahited, from the Arctic to Cape Horn, and from ocean to ocean, by a population displaying peculiar physical traits, unlike any races in the Old World; speaking languages bearing no resemblance in structure to other languages; and living, everywhere, among animals and plants specifically distinct from those of Europe, Asia, Africa, and Oceanica.
But, natural as this reasoning is, in favor of American origin for our Indians, we shall not leave the question on such dehatable ground There is ahundant positive evidence of high antiquity for this population, which we proceed to develop.
In reflecting on the ahoriginal races of America, we are at once met by the striking fact, that their physical characters are wholly independent of all climatic or known physical influences. Notwithatanding their immense geographical distribution, embracing every variety of climate, it is acknowledged hy all travellers, that there is
among this people a pervading type, around which all the tribes (north, south, east, and west) cluster, though varying within prescribed limits. With trifling exceptions, all our American Indians hear to each other some degree of family resemblance, quite as strong, for example, as that seen at the present day among full-blooded Jews; and yet they are distinct from every race of the Old World, in features, languages, customs, arta, religions, and propensities. In the language of Morton, who studied this people more thoroughly than any other writer:"All possess, though in various degrees, the long, lank, black hair; the heavy brow; the dull, sleepy eye; the full, compressed lips; and the salient, but dilated nose." These characters, too, are beheld in the civilized and the most savage tribes, along the rivers and sea-coasts, in the valleys and on the mountains; in the prairies and in the forests; in the torrid and in the ice-bound regions; amougst those that live on fish, on flesh, or on vegetables.

The only race of the Old World with which any connection has been reasonably conjectured, is the Mongol; hut, to say nothing of the marked difference in physical characters, their languages alone should decide against any such alliance.
> "The American race difers essentially from all others, not excepting the Mongolian; nor do the feeble analogies of language, and the more obvious ones of civil and religious institutions and arts, denote anything beyond casual or colonial communication with the Agiatic nations; and even these noslogiea may, perhnps, be accounted for, as Rumboldt has suggested, in the mere coincideace arising from similar wanta and impulaes in nations inhabiting similar latitudes." ${ }^{561}$

No philologist can be found to deny the fact that the Chinese are now speaking and writing a language substantially the same as the one they used 5000 years ago; and that, too, a language diatinct from every tongue spoken hy the Caucasian races. On the other hand, we have the American races, all speaking dialects indisputably peculiar to this continent, and possessing no marked affinity with any other. Now, if the Mongols have preserved a language entire, in Asia, for 5000 years, they should have likewise preserved it here, or to say the least, some trace of it. But, not only are the two linguistic groups radically distinct, but no trace of a Mongol tongue, dubious words excepted, can he found in the American idioms. If such imaginary Mongolians ever brought their Asiatic speech into this country, it is clear that their fictitious descendants, the Indians, have lost it; and the latter must have acquired, instead, that of some extinct race which preceded a Mongol colonization. It will be conceded that a colony, or a nation, could never lose its vocabulary so completely, unless through conquest and amalgamation ; in which case they would adopt another language. But, even when a tongue ceases to he
spoken, some trace of it will continue to survive in the names of individuals, of rivers, places, countries, \&c. The names of Moses, Solomon, Dayid, Lazarus, Isaac and Jacob, are still found among the Jews everywhere, although the Hebrew language has ceased to be spoken for more thau 2000 years. And the appellatives Mississippi, Missouri, Orinoko, Ontario, Oneida, Alabama, and a thousand other Indian names, will live for ages after the last Red man is mingled with the dust. They have no likeness to any nomenclature in the old World.
In treating of American races, our prescribed limits do not permit us to go into details respecting the infinitude of types which compose them. Our purpose at present ie simply to bring forward sach facts as may be sufficient to estahlish their origin and antiquity. The broad division of Dr. Morton, into two great families, which contrast in many pointe strongly with each other, is sufficiently ninute, viz.: "The Toltecan nations snd the Barbarous tribes." This claseification is somewhat arbitrary; but it is impossible, in our day, to establish any but very wide boundary-lines. Here, as in the Old World, wars migrations, amalgamations, and endless causes, have, during several thousand years, disturbed and confused Nature's original work; and we must now deal with masses as we find them. In fact, our main object in alluding at all to tbe diversity of types among the aborigines of America, is to give another illustration of a position advanced elsewhere in this volume. We have shown that the major divisions of the earth, or ita different zoological provinces, were populated by groups of races, bearing to each other certain family resemblances; notwitbstanding tbat, in reality, these races originated iu nations, and not in a single pair; thus forming proximate, but not identical species. The Mongols, the Caucasians, the Negross, the Americans, each constitute a group of this kind. In our chapters on the Caucasian races, for example, we have shown how the Jews, Egyptians, Hindoos, Pelasgians, Romans, Teutons, Celta, Iberians, \&c., which had all been classed under this common bead, can be traced, as diatinct forms, heyond all human chronology. Tbe same law applies to the American races. Although every tribe has some characters that mark it as American, yet there are certain sharply drawn distinctions, among some of these races, which cannot be explained by climatic influences. The Toltecan, and Barbarous tribes, taken separately, en masse, afford a good illustration, for they differ essentially in their moral and physical characteristics. The most prominent distinction between these two families results from comparisou of their craniological developments. Dr. Morton, whose collection of human crania is the most complete in the world, bestowed unrivalled attention on

American races, and has given actual measurements of 338 Indian skulls, in which the two great divisions are almost equally represented.

1st. The Toltecan Family - comprising all the semi-civilized nations of Mexico, Peru, and Bogota, who, there is every reason to believe, were the builders of the great system of mounds found throughout North America. Of 213 skulls, Mexican and Peruvian, 201 belong to the latter-each having been obtained from the oldest burialgrounds and through the most rehable sources. On these heads, Morton makes the following striking comment:-
" When we consider the inatitutions of the oid Peruvians, their comparatively advanced civilication, their tombs and temples, mountain-roads end monolithic getemays, together with their knowledge of oertain orramental arts, it is auprising to find that they possessed - brain no larger than the Hottentot or New Hollonder, and fer below the barbaroas bordes of their own race." [We have shown, in our remarks on anstomical charactere of races, that the Hottentot has a brain on tbe average 17 cubic inches leas than the Teutonic race -- the latter being 92, and the former 75 cubic inches.] "For, on measaring 155 crania, nearly all derived from the sepalchres joit mentioned, they give but 75 cabic inches for the arerags bulk of brain, while the Teutonic, or highest developed white race, gives 82 cubic inchefs. Of the whole number, one only attains the ospacity of 101 cubic inches [the highest Teutonic in Dr. Mortor's collection is 114 cubic inches] - and the minimum sinks to 68 ; the smallest in the whole aeries of 641 measored crania of. all nations. It is important to remark, slso, that the sexea are neariy equally ropresented: viz, 80 men and 75 women

The mean of twenty-one Mexican skulla is seventy-nine, or five cubic inches above the Peruvian average; but the authenticity of this series is not so well made out as the other, and it may be too small for the establishment of a very correct mean.

2d. The Barbarous Tribes, - The semi-civilized communities of America seem at all times to have been bemmed in and pressed upon by the more restless and warlike barbarous tribes, as they are at the present day. We now see the unwarlike Mexican constantly pillaged by daring Camanches and relentless Apaches; who, since the introduction of bosses, have become most fearful marauders, scarcely inferior to the Tartars or Bedouins of Asia.

On this series, collected both from modern tribes and ancient tumuh the most widely separated by time and apace, Morton remarks : -
"Of 211 cranis derived from the varlons sonrces enumerated in this section, 161 bove been meagured, with the following renalts: the largest cranium gives 104 cabje inches the smalleat, 70 ; and the mean of all is 84 . There is a disparity, bowever, in the male and female heads, for the former are 96 in nulmber, and the latter only 65.
"We have here the surprising fact, that the hrain of the Indian, in his savage state, is far larger than that of the old demi-civilized Pertivian or ancient Mexican. How are we to explsio this remarkable disparity hetween civilizstion and bmrbmism? The largest $\mathrm{Pe}-$ ravien brain measures 101 cobic inches; and the antamed 8hawnee rises to 104; and the average difference between the Peruvian and the aqvage is nine cuhic inches In favor of the latter. Something may be attribated to a primitive difference of stock; but more, perhaps, to the contrasted activity of the tho races." [Here Dr, Morton might appear to endorse the
theory that cultivation of the mind, or of one set of faculties, can give expansion or incrensed gize of brain. There is no proof of the truth of such a hypothesig. The Teutonic races, in their barbarous state, 2000 yeass ago, posqeased briing as large as now ; and so with other races. - J. C. N.]

Taken collectively, the American races yield an average mean, for the whole 338 crania, of only seventy-nine cubic inches, or thirteen below that of the Teutonic race.
The general law laid down by-craniologista, that size of brain is a measure of intellect, would seem to meet with an exception here; but it is only apparent. A very satisfactory solution of the fact will be found in Mr. J. S. Phillipg's Appendix to Morton's memoir on the Physical Type of the American Indians; ${ }^{\text {se }}$ also, in Mr. Qcorge Combe's Phrenological Remarks, in the Appendix to Morton's Crania Americana. The appendix of Mr. Phillips, published after Morton's death, alds some new materials, which the Doctor had not time to work up before his demise. The additional crania make a little variation from the means or averages ohtained by Morton, hut too slight to influence the general conclusions. Mr. Phillips's closing observations are so well expressed that we are sure the reader will prefer them entire, to wit; -
"The average volume of the brain in the Barbarous tribes is ehown to be from 83$\}$ to 84 cubic inches, while that of the Hexicane is but 79, and in tbe Peruvians only 75; thus exhibiting the apparent anomaly of barbarous and uncivilized tribes possessing larger brains than races capable of considerable progress in civilization. This discrepancy deserves more inveatigation than time permita at present; but the following viewa of the sabject may make it sppear lese anomalous: -
"The prevailing featares in the oharacter of the North American savage are, stoicism, a severe cruelty, excessive watchfulnese, and that coarse bratality which regults from the eatire preponderance of the animal propensities. These so outweigh the intellectas portion of the character, that it is completely aubordinate, making the Indian what we see him - e most uniatellectua! and uncivilizable man.
"The intellectual tobe of the brain of these people, if not borne down by such orerpowering animal propensities and passions, would doubtless bave been tapable of much greater efforta than any we are acquainted with, and have enabled these barberous tribet to make some progress in civilization. This sppears to be the cerebral difference between the Mexicans and Peruvians on the one hand, and the Barbarous tribes of North Americe on the other. The intellectual lobe of the brain in the two former is at least as large as in the latter - the difference of volume being chiefly confined to the occipital and basal portions of the encephalon; so that the intallectual and moral quelities of the Mexicana and Peruvians (at least as large, if not larger than those of the other group) are left mort free to act, being not ao aubordinate to the propensities and violent passions. This view of the subject is in accordance with the bistory of these two divisions: barbarou and civilieable. When the former were assailed by the European settlers, they fought desparstely, but rather with the cunning and ferocity of the lower animala, than with the system and courage of men. They could not be subjugated, and were either exterminated, or continued to retire into the forests, when they could no longer maintain their ground. Had their intellect been in proportion io their other qualities, they would have been most formidsble enemies. With the Mexicans and Peruviany the case hbs been the reverse. The original inbabitants of Nexico were entirely rubjugatod by the Aztecs, who appear wove been a
amall tribe in comparison with the Mexicans; and then they were all conquered and ensiared by a mere handful of Spaniardh - although the Mexicans bad the adpantage over the barbarous tribes of concerted action, some discipline, and preparation, in which the latter were greatly deficient. The Mexicans, witb small braing, were evidently inferior in resolution, in attack and defence, and the more manly traite of character, to the Barbarous races, who contested every inch of ground until they were entirely outnumbered. And at the present time, the Camanches and Apaches, though a part of the great Shoshonee division (one of the lowest of the races of North America), are coatinually plandering and destroying the Indians of Northern Mexico, who scarcely attempt resislance.
" Viewed in this light, the apparent contradiction of a race with a smaller brain being superior to tribes mith larger braing, is so far explained, that the volume and distribation of their respective brains appear to be in accordance with such facta in their history as heve come to our ksowledge."

Again, Mr. Phillips remarks, of the Indians of the United States, that he has "grouped them, on a large scale, into familics, according to language; and the result of measurement of the volume of brain is strikingly in accordance with the ascertained character of the different groups thus constituted. His arrangement is - 1st, Iroquois; 2d, Algonquin and Apalachian; 3d, Dacota; 4th, Shoshonees; 5th, Oregoninns. Of the first division (the Iroquois), he ohserves: -
"The average intertial capacity of the cranium in this group is about $8 \frac{1}{2}$ inches higher than the lowest typeas, and $4 \frac{1}{2}$ inches higher than the average-being $88 \frac{1}{2}$ cubic inches. This result is atrikingly in keeping with the fuct that they were 80 cotmpletely the masterspirits of tbe land; that, at the time of the first settlement of this country by the white race, they were so repidly aubduing the other tribes and nations around them; and that, if their career of conquest had not been cut short by the Anglo-Samon predominance, they bede fair to have conquerad all within their reach."

He then states the measurements and characters of other families, in all of which the morale and physique most strikingly correspond.

These facts afford rery instructive material for reflection. We here behold one race, with the larger, though less intellectual brain, sabjugating the unwarlike and half-civilized races; and it seems clear, that the latter were destined to be either swallowed up or exterminated by the former. Who can doubt that similar occurrences had been going on over this continent for many centuries or even thousands of years? There are scattered over North America countless tumuli, which it is beheved were built by races different from the savage tribes found around them on the advent of the whites, and an impenetrable oblivion rests upon these earth-works. There are many reasons for supposing that these mound-builders were either 'identical with, or closely allied to, the Toltecs; and, that they were driven south or exterminated hy more savage and bellicose races, such as the Iroquois: for the traditions of the Mexicans point to the North as their original country.

At the present day, we see in Ameriea large settlements of Spaniards, French, Germans, \&c., as well as Indians - all speaking their
own langunges; yet who douhts that in a century or two the Indians will he extinct, and the others swallowed up in the Anglo-Saxon tongue and type? Then, when the ethnographer shall undertake to analyze the population, what can he learn of the history of races that first overspread this continent, or what light upon the origins of lost or ahsorhed autocthones can he draw from the European dialects spoken by their destroyers? What will be the condition of this country two or three thousand years hence, we may ask, when we see Europe pouring its population into it from the East and Asia from the West? We can reason on the things of this world mercly from what we see and know; and we must infer that a succession of events has heen going on for ages, during ante-historic times, similar to thoee we encounter in the pages of written history. Human nature never changes, else it would cease to be human nature.

Now, how are we to explain these opposite intellectal and physical characters in the two great families of America, except hy primitive craninl conformations, each aboriginally distinct? Certainly, no known facts exist leading to the conclusion that any particular mode of life can change the size or form of brain in man; while, on the contrary, we have abundant reason to be convinced that the size and form of brain play a conspicuous part in the advancement and desting of races. The large heads, in many instances, having emerged from barbarism (Teutons, Celta, for example), within historical times, have reached the bigher pinnacles of civilization, and everywhere outstripped and dominated over the amall-headed races of mankind.
It is interesting here to note that the ancient Egyptiane and Hindoos, who in very early times reached a considerable degree of civilization, had, like the Mexicans and Peruvians, nueh smaller heads than the savage tribes around them. ${ }^{50}$ Each of tbese people give an internal mean-capacity of eighty cubic inches, whicb is hut one inch above the average of American races. The Negro races, exclnsive of Hottentots, yield an average of eighty-three inches.
If the Jews have bived during 1500 years in Malabar, the Magyara 1000 in Hungary, the Parsees as many ages in India, the Basques or Iberians in France and Spain for more than 3000, without material change - and, if the Anglo-Saxons and Spaniarde have lived throngh ten generations in America without approximating the aboriginal type of the country, it is a reasonable inference that the intellectual and physical differences of the Toltecan and Barbarous tribes are not attributable to secondary canses, either moral or physical.
Mr. Squier makes the following philosophical remarks : -

[^72]easily accounted for as the result of accident, or, at most, of local infasions, which were withont any extended effect The entire number of common words is said to be one hundred and eighty-seven; of these, one hundred and four coibcide with words found in the languages of Asis and Australia, forty-three with those of Lurope, and forty with those of Africa. It can hardly be supposed that these facts are sufficiant to prove a connection between the four handred disleate of America and the various languages of the other continent it la not in accidental coincidences of sound or meaning, but in a comparison of the general struoture and charecter of the American languages with thooe of other countrias, that we can expect to find similitudes at all conoluative, or worthy of remark, in determining the question of a common origin. And it is precisely in these respecto that we discover the strongest evidences of the esaential peediarilies of the American languagea: here they coincide with asch other, and bere oxhibit the most atriking contrasis with sill the others of the globe. The diversitian which have eprung up, and which have resulted in so many dialectical modifications, as shown in the numberless rocsbularies, furdish a wide field for inventigation. Mr. Gallatin draws a conclasion from the circumatance, which is quite as fatal to the popular hypothesis, rerpeoting the origin of the Indians, as the more sweeping conclusion of Dr. Morton. It is the leagth of time which this prodigious subdivision of languagea in America mast bare required, making every allowance for the greater changes to which unwritten Ianguages ara lisble, and for the necesenry hreaking up of nations in a hentar-state into seperate commanities For theso ohanges, Mr. Gallatin claime, we must have the very longest time which we are pertmitted to assume; and, if it is considered nacessary to derive the American races from the other continent, that the migration must have taken place at the earliest easigaahle pariod,
"The following conclusions were advanced by Mr. Drponceau, an early an 1819, in substantially the following language: -
"1. That the American langages, in general, are rich in worda and grammatical formas and, that in their complicated construction the gremlest order, method, and regularity preveil.
" 2, That these complicated forma, which he calls polyeynthetio, sppear to exist in all these languages, from Greenland to Cape Hera.
" 3. That these forms differ essentially from those of the ancient and modern languagea of the Old Hemisphere." 36

The type of a race would never change, if kept from adulterations, as we have shown in the case of the Jews and other peoples. So with languages: we have no reason to believe that a race would ever lose its language, if kept aloof from foreign influences. It is a fact that, in the little island of Great Britain, the Welch and the Erse are still spoken, although for 2000 years pressed upon by the strongest influences tending to exterminate a tongue. So with the Basque in France, which can be traced back at least 3000 years, and is still spoken. Coptic was the speech of Egypt for at least 5000 years, and still leaves its trace in the languages around. The Chinese has existed equally as long, and is still undisturbed.
"An effort has been made by Mr. Blackie, Professor of Greek in the Univeraity of Edioburgh, to reform the promunciation of Oreek in that Univeraity. He in teaching his stadents to prononece Greek as they do in Greece, ingisting that it is not s dead, but o living language - as any one may see by looking at a Oreek newepaper. Prof. Blackla gives an extract from a newspaper printed last year, at Athens, giving an account of Kat sath's risit to America, from which it is evident that the Ingruage of Homer lives in a stato of purity to which, conaidering the extroardinary darstion of its Utarary existance (2500
years at least), there is no parallel, perhaps, on the face of the globe After noticing a fow triling modifications, which distinguigh modern from ancient Greek, he atates, as a fact, that in three columns of a Greek newspaper of the year 1852, there do not certainly oceur three words that are not pure native Greek - ao very atightly hea it been corrupted from foreigu nources." ${ }^{3}$

Although the nations of Europe and Western Asia have been in constant turmoil for thousands of years, and their languages torn to picces, yet they have been moulded into the great heterogeneous Indo-European mass, everywhere showing affinities among its own fragments, but no resemblance to American languages. The subjoined extract from a paper of Prof. Agassiz admirably expresses new and most interesting views upon the natural origin of speech:-

[^73]To which may be added the fumiliar instance, that, although the Negro has been domiciliated in the United States for many generations amoug white people, he nevertheless, whether speaking English, French, or Spanish, preserves that peculiar, unmistakeably-Negro, intonation, which no culture can cradieate. So, again, who ever heard the
voice of an Indian uttering English, and could not instantly detect the articulations of the Red man?

A review of the preceding facts shows conclusively, we think, that the Natural History of the American ahorigines runs a close parallel with that of races in other countries. We have made but two divisions; but it is more than probable that each of these familics, instead of springing from a aingle pair, have originated in many. But we have discussed this point elsewhere, and need not reopen it here.

Let us now glance at the history of those aboriginal races which made the only approach towards civilization. It is true that our materials are very defective in many particulars, yct enough remain to lead ethnologists to some important results.

No trace of an alphabet existed at the time of the conquest of the continent of America; hut some tribes possessed an imperfect sort of picture-writing, from which a little archæological aid can be derived; though we are compelled to look chiefly to traditions, which are often vague, and to the light which emanates from the physical characters, antiquitice, religions, arts, sciences, languages, or agriculture.

The decided structural connection which exists among the various Indian languages has been regarded as sufficient evidence, not only of the common origin of these languages, but of the races speaking them. The venerable Albert Gallatin, who devoted much time and talent to American ethnography, says:-
"All those who have investigated the subject appear to bave agreed in the opinion thas, however differing in their rocabularies, there is an evident similarity in the strocture of all the Americun Ingguages, bespeaking a common origin." 367

Now, we are not disposed to deny tbe close afinity of these languages, but we cannot agree that this affords any satisfactory proof of unity of their linguistic derivation. The conclusion, to our minds, is a non sequitur.

Let us assume, with Agassiz and Morton, that all mankind do not spring from one pair, nor even each race from distinct pairs; but that men were created in nations, in the different zoological provinces where history first finds them. The Caucasians, Mongols, Indians, Negroes, were, for example, created in large numbers, or in acattered tribes. What, let us ask, would necessarily he the result as regards types and languages? Various individuals of these tribes, having no language, would soon come in contact, either through proximity, or early wanderings. Unions would soon take place, and there would he a fusion of types, so as perhaps to change, more or less, each original ; just as amalgamations have taken place among all historical nations, and are now going ou in every country of the glohe.

So with languages. As soon ns individuals came in contact, they
would necessarily commence the first steps towards forming a speech, as birds instinctively sing and dogs bark. The wants, and range of idcas of these tribes, would, for a long time, be very limited, and their vocabulary, thus formed, very meagre. The aboriginal races of America, though not identical, display a certain similarity in their physical and intellectual characters, as species of a genus in the animal kingdom possess certain physical characters and instincts in common; and it is probable that their primitive languages wonld, in consequence, more or less, resemble each other. This view is strengthened by the fact of general resemblance amongst American crania. But nothing in human anatomy can be more striking, than the wide differcnce in the conformation of the skalls of American and African races.

If two distinct races, created on incommunicable continents, had been left aione, originally, eacb to form its own languages independently of the other, is it not presumable, a priori, that there would accrue a much greater similarity among the tongues of the one race, on the same continent, than between these tongues and those spoken on the other continent by the other race? Expecially, when the physical and moral characteristics of the former differ radically from those of the latter?

As, then, the crania of American races resemble each other, while differing entirely from those of African races, so do American and African languages differ from each other in strueture and vocabulary; although both are in harmony with the varions dialects spoken on their respective coutinents by races osteologically similar.
Whether the above proposition be true or false, all languages which, in their infant state, came together, would necessarily become fused into one beterogencons mass. Let us illustrate this point a little farther. Suppose that, five thousnad years ago, a country had existed large as Europe, covered by a virgin forest, and that the Creator had scattered over it tribes, bearing tbe type of the old Teutonic stock - each of whom commenced at ouce in forming a language - what would be the result in our day, after 5000 years of migrations, wars, amalgamations? Can any one doubt that these languages would be fused into one whole, quite as homogencous ns those of the aborigines of America? When we reflect that there is every reason to belicse that this continent has been inhabited for more than 5000 years, such case becomes a much stronger one. Niebuhr, in one of his letters, expreses views very similar. ${ }^{36}$.

[^74]langage; each of which femilies probably bad originally formed a langrage peculiar to itself. This lset ides belongs to Reinhold. By this I explain the immense variety of langaagea among the North American Indians, which it is absolutely jamposible to refer to any common soarce, but which, in some cases, have respolved themselves into ono lengroge, os in Nexico and Pern, for instance; and aleo the number of aynonymy in the earlieat periods of languages. On this account, I maintain that we mast make a very cantions use of differencey of language as applied to the theory of races, and have more regand to physical conformation; which latter is exactly the catme, for instacce, in moet of the Indien cribea of North Americe I helieve, farther, that the origin of the human race is nat connected with any gived place, but is to be sought everywhere over the face of the sarth; and that it is an iden more worthy of the power and wiedom of the Creator, to ansume that be gave to each zone and each climate its proper inbbbilants, to whom that $\quad$ one and climate would be most auitable, than to assume that the buman epecies has degenerated in such innumershle instanoes."

Wiseman approaches the subject from a different point of view, offering another explanation for the dissimilarity of languages. He maintains that there are affinities among all languages, which can only hc explained by original unity, hat acknowledges, on the other side, certain radical differences, which are only to be explained hy a miracle. He says, in Lecture second:-

This view of the enigma would he much the most agreeahle to many readers, inasmuch as, hy the ohtrusion of an unwarranted physical impossihility, it gets clear of that radical diversity of languages which philology has not yet been able to overcome. Such reasoning, however plansible at the time when it was written, will not stand the test of criticism in the year 1853. The facts revealed to us hy the suhsequent discoveries of Lepsius and others, require a much higher antiquity for nations and languages than the Cardinal had any idea of; and which is entirely irreconcilable with the Jewish date for the "confusion of tongues" at Bahel, to which he plainly points. If that confusion of tongues in Genesis were even taken as literally true, it could neither have applied to all the nations of the earth, nor, particularly, to those inhahiting parts of the world anknown to Oriental geography in the time of Moses or Abraham; and this owing to exegetical reasons hercinafter set forth.

Clavigero, whose ability and opportunities confer upon his authority especial weight, gives the following chronology, derived from data ohtained through Mexicans:-
A. D.
The Toltecs sarived in Anainuac, or the country now called Mexico, migrating from the North ..... 048
They abandoned the coantry ..... 1051
The Chichemecs arrived ..... 1170
The Acholchusna arrived about ..... 1200
The Mexicans reached Tula ..... 1296
They founded Mexico ..... 1825

Here, then, we have the dates of successive migrations of these Toltecan races, from the seventh to the fourteenth century; and, although much doubt exists with regard to the accuracy of some of these dates, no one who investigates the subject will deny tbat they are sufficiently close for all practical purposes, and may be taken as the basis of chronological calculation. Clavigero, Gallatin, Humboldt, Prescott, Squier, Morton-in short, all authorities, are substantially agreed on this point. These Toltecan races, who it seems inhabited, though perhaps at different epochs, almost every portion of the present territory of the United States, must have been pressed upon by causes now unknown to us, and forced to migrate from their original abodes. They sought an asylum in the southern countries - Mexico, Central America, Peru; and here gave birth to the semi-civilization found at the time of the Spanish conquest. Gallatin, however, thinks it most probable that the Toltecan races and their civilization commenced in the tropic, and spread towards the north. Over an immense territory, bounded by the Atlantic and Paeific, the Gulf of Mexico and the Great Lakes, are seattered those countless mounds, on the origin of which the savage tribes surrounding them for the last three or four centuries have not even preserved a tradition.

[^75]From this single State, constituting but a small fraction of the surface over which they are scattered, may be formed some iden of the enormous number of these remains and of the ante-historical population which constructed them. These tumuli were of several distinct kinds, viz., sepulchral and sacrificinl; dikes, fortifications, \&c. Squier's investigations lead him to aver:-
"The features common to all are elementary, and identify them aspertaining to one grand aystam, owing its origin to a family of men moving in the same genersl direction, ucting under common impulees, and intuenced by similar canaes."

These mounds, from their number and magnitude, present indigputable evidence of the existence of very large agricultural populations. How many centuries were these people increasing, migrating, and concentrating, around so many thousand widely-scattered nuclei?

How long was it before they possessed a density and command of labor requisite for such structures? How long, after building such national monuments, did they live around, before abaudoning them? Were they not the same people who migrated into Mexico and Central America from the seventh to the thirteenth century a.c.? Surely, any reply to this view of the subject alone, in connection with the physical type of the race, must carry them back to timeed contemporary with the Pharaobs of Egypt.

Too valuable to be mutilated, a long extract from the standard work before quoted is here introduced.

- The antiquity of the ancient monuments of the Misaissippl Valley has been made the subject of incidental remark in the foregoing chapters. It will not be out of place here to allude once more to some of the facts benring upon this point of course, no attempt to fix their data accurately, from the circumstances of the case, can now he successful. The most that can be doge is, to arrive at approximate reaults. The fact that none of the anci-nt monuments oecur upon the latest formed terraces of the river-velleys of Ohio, is one of much importance in its bearing upon this queation. If, at we are amply warranted in believing, these terraces mark the degrees of the subsidence of the strenms, one of the four (wbich may be traced) has been formed siace those streams have followed their present courses. There is no good reason for supposing that the mound-bailders would have aroided building apon that terrace, while they erocted their works promiscuously upon all the others. And if they had built opon it, some slight traces of their worke would get be visible, bowever much influence one may assign to disturhing causea-overfows, and shifting channels. Assuming, then, that the lowest terrace, on the Scioto river, for example, has been foroned since the era of the mounds, we must next consider that the excarating power of the Western ripers diminishes yearly, in proportion as they approximate towards a general lesel. On the Lower Miasiasippi, where alone the encient monuments are sometimes invaded by the water, the bed of the atream is rising, from the deposition of the tagterials brought down from the upper tribataries, where the excavaing process is going on. This excarating power, it is calculated, is in an inverge ratio to the square of the depth that is to eay, diminishes as the equare of the depth increases. Taken to be approximately correct, this rale estahlishes, that the formation of the iatest terrace, by the operaLion of the same causes, must have occopied much more time than the formation of any of the preceding three. Upon these premises, the time since the streams have flowed in their present courses may be divided into four periods of different lengths - of which the lafest, suppored to have elopsed since the race of the mounds Rourished, in much the longest.
"The fact that the rivers in shifting their chanaels bave in some inatances encrosched upon tbe superior terraces, so as in part to destroy works situated upon them, and afterwarls receded to long distances of a fourth or half a mile or upwerds, is one which should not he overlocked in this connection. In the case of the 'bigh bankworka,' the recession hes been nearly three-fourthy of a mile, and the intervening terrace or 'bottom' was, at the period of the early settlement, covered with a dense forest. This recession and subsequent forest growth mast of necessity have taken place since the river enorosched upon the ancient morks bere alladed to.
"Without doing more than to allude to the circumatance of the exceedingly decayed atate of the gkeletons foupd in the mounds, and to the amount of vegetable accumulations in the ancient excavations and sround the ancient works, we pass to enother ract, perhape more important in its bearing apon the question of the entiquity of these works, than any of those presented above. It is, that they are covered mith primitive forests, in no may distinguishable from those which surround them, in places where it is probeble no elesrings
were ever made. Some of the trees of these foreste have a positive tutiquity of from six to eight hundred years. They bre found burrounded with the mooldering remains of others, nadoabtedly of equal original dimensions, but now fallen and almost incorporsted with the soil. Allow a reasonable lime for the encranhbment of the foreat, after all the works were sbandoned by their bailders, and for the pariod intervening batween that event and the date of thair construction, and we are compelled to anaign them no inconaiderable antiquity. Bat, as already obserred, the foresta covering these works correspond in all respects with the surrounding forests; the same paristies of trees are found, in the same proportions, and they have a Ule primitive abpect. This fact was remarked by the late President Farbisos, and was put formard by him as one of the strongent evidences of the high antiquity of thees works. In an addrees bafore the Histrical \$ociety of Ohia, he said: -
" " The procesa by which natore reatores the forest to its original atate, after being ance cleared, is extremely slow. The rich lands of the West are indeed soon corered agsin, bat the character of the growth is entirely diferent, and continues so for a long period. In several pleces upon the Ohio, and upon the form which I occapy, olearings were made in the first setllement of the country, and subsequently ahandoned and suffered to grow ap Some of these new forests are now, sure, of fifty years' growth; hut they have made 0 little progreas towards attaining the appearance of the immediately contiguous forcst, at to indace any man of reflection to determice that at least ten times fifty yeara must elapse before their complete asaimilation can be effected. We find, in the ancient works, atl that variety of trees which give such unrivalled beauty to our forests, in natural proportione The first growth, on the same kind of land, once cleared and then abandoned to nature, on the contrary, is nearly homogeneous, often etinted to one or tro, at most hiree, kinds of timher. If the ground bas been cultivated, the yellow locuat will thickly spring up; if not cultivated, the black and white walnut win be the prevailing growth. . . . Of what immense age, then, must be the works so often referred to, covered, as they are, by at least the aecond growth after the primitive-forest state was regained!'
"It is not undertaten to easigna paried for the asaimilntion here indicated to take plece. It must, however, be mearared by conturica.
"In reepect to the extent of territory occupied at one tifue, or at accoesaive periods, by the ruce of the mounds, go fer as indigated by the occurrence of their monaments, litte need be asid, in addition to the observationa preaented in the firat ohepter. It cannoth however, buve escaped nolice, that the relics found in the mounde-composed of materials pecoliur to places separated an widely as the ranges of the Alleghanies on the cast, and the Sierrus of Mexico on the west, the waters of the grest lakes on the north, and those of the Gulf of Mexice on the south - denote the contemporaneous exiatence of communication between these extremes. For we find, side by side, in the same mounds, native copper from Lake Superior, mica from the Alleghanies, shella from the Guff, and obsidinn (perhapa porphyry) from Mexico. This fact seems to conflict geriously with the bypothesis of a migrution, either northward or southward. Further and more extended investigations and obsercstiong may, neverlheless, aerve satisfactorily to setile, not only this, but other equally interesting queations, connected with the extinct race, whose name is lost to tradition itself, and whose very existence ia left to the sole and silent attantations of the rude, but of imposing monuments, which throng the vallegs of the West."

A dispassionate review of the evidences thus cursorily presented, in support of the contenporaneousness of American races with those first recorded on the monuments of the eastern world, when taken together, ought, we think, to satisfy any unprejudiced mind. Nor can anything be twisted out of tbe Jewish records to show that, at the time wben many races were already formed in the old Levant,
at least one distinct type of man did not exist on the Western Continent. But, to our minds, stronger than all other reasonings, not excepting the antithesis of languages, is that drawn from the antiquity of skulls.

The vertical occiput, the prominent vertex, the great interparietal diameter, the low defective forehead, the small internal capacity of the skull, the square or rounded form, the quadrangular orbits, the massive maxillæ, are peculiarities which stamp the American groups, more especially the Toltecan family, and distinguish them widely from any other races of the carth, ancient or modern.

As before remarked, these characters are seen to some extent in all Indians: although the savage tribes exhibit a greater development of the posterior portion of the brain than the Toltecs-thus supplying, in Natural History, the link of organism which assimilates the Barbarous septs of America to the savage races of the Old World.

An interesting fact was mentioned to us by an American officer, of high standing, who accompanied our army in its march through Mexico during the late war. Although his head, which we measured, is helow the average size of the Anglo-Saxon race, he told us that it was with difficulty he could find, in a large hat-store at Matamoras, a single hat which would go on his head. Hats suited to Mexicans are too bmall for Anglo-Saxons: a fact corroborated by ample testimony. Throughout the winter season, in Mobile, at least one hundred Indians of the Choctaw tribe wander about the streets, endeavoring to dispose of their little packs of wood; and a glance at their heads will show that they correspond, in every particular, with the anatomical description just given. They present heads precisely analogous to those ancient crania taken from the mounds over the whole territory of the United States; while they most strikingly contrast with the Anglo-Saxons, French, Spaniards and Negroes, among whom they are moving.

It is impossihle to say how long human bones may he preserved in a dry soil. There are some curious statements of Squier, and many more of Wilson, ${ }^{,{ }^{11}}$ respecting the harrows of the ancient Britons, where akeletons have been preserved at least 2000 years:-

[^76]From the ruins of Nineveh and Bahylon we have hones of at least 2500 years old $;^{375}$ from the pyramids ${ }^{544}$ and the catacombs of Egypt,
both mummied and unmummied crania have been taken, of still higher antiquity, in perfect preservation; and numerous other proofs might be brought forward to the same effect: nevertheless, the skeletons deposited in our Indian mounds, from the Lakes to the Gulf, are crumbling into dust through age alone!
Speaking of the mound-builders, it is said: -
"The only skull incontestably belonging to an individual of that race, which"has been recovered entire, or sufficiently well preserved to be of value for purposes of oomparison, was taken from the hill-mound, numbered 8 in the map of a section of twelve miles of the Scioto Valley."

## Squier's account continues:-

"The circumstances under which this skull was found are, altogether, so extraordinary as to merit a detailed account. It will be observed, from the map, that the mound above indicated is situsted upon the summit of a high hill, overlooking the valley of the Scioto, about four miles below the city of Chilicothe. It is one of the most prominent and commanding positions in that section of country. Upon the summit of this hill rises a conical knoll, of so great regularity as almost to induce the belief that it is itself artificial. Upon the very apex of this knoll, and covered by the trees of the primitive forests, is the mound. It is about eight feet high, by forty or fifty feet base. The superstructure is a tough yellow olay, which, at the depth of three feet, is mixed with large, rough stones; as shown in the accompanying section, (Fig. 197).
"These stones rest upon a dry, calcareous deposit of buried earth and small stones, of a dark black colour, and much compacted. This deposit is about two feet in thickness, in the centre, and rests upon the original soil. In excavating the mound, a large plate of mica was discovered, placed upon the stones. . . . . Immedistely underneath this plate of mica, and in the centre of the buried deposit, was found the skall figured in the plates (Figs. 198, 199). It was discovered resting upon its face. The lower jaw, as, indeed, the entire skeleton, excepting the clavicle, a few cervical vertebrw, and some of the bones of the feet, all of which were huddled around the skull, were wanting.
"From the entire singularity of this burial, it might be inferred that the deposit was a comparatively recent one; but the fact that the various layers of carbonaceous earth, stones, and clay were entirely undisturbed, and in no degree intermixed, settles the question beyond doubt, that the skull was placed where it was found, at the time of the construction of the mound. . . .
"This skull is wonderfully preserved; unaccountably so, unless the circumstances under which it was found may be regarded as most favorable to such a result. The imperviousness of the mound to water, from the nature of the material composing it, and its position on the summit of an eminence, subsiding in every direction from its base, are circumstances which, joined to the antiseptic qualities of the carbonaceous deposit enveloping the skall, may satisfactorily account for its excellent preservation."

A twofold interest attaches to the mound (Fig. 197), of whieh we offer a sectional tracing. On the one hand it indicates the pains

Fig. 197.

bestowed by ancient American man upon the dead; thus evincing considerable civilization : on the other, the central tumular position in which this unique cranium was discovered, establishes an anteColumbian age for its builders, and segregates it entirely from the ruder sepulchres of our modern Indians.

We present a vertical and a profile engraving of this ancient skull, one exceedingly characteristic of our American races, although more

Fia. 198.


Fig. 199.

particularly of the Toltecan; having already stated that the Barbarous tribes possessed more development of the posterior part of the brain than the Toltecs. An examination of this skull will elicit the following characteristic peculiarities - forehead low, narrow, and receding; flattened occiput; a perpendicular line drawn through the external meatus of the ear, divides the brain into two unequal parts, of which the posterior is much the smaller; forming, in this respect, a striking contrast with other, and more particularly the Negro, races. Viewed from above, the anterior part of the brain is narrow, and the posterior and middle portion, over the organs of caution, secretiveness, destructiveness, \&c., very broad, thus lending much support to phrenology: vertex prominent. [These peculiarities are confirmed by the numerous measurements of Dr. Morton, and by the observations of many other anatomists, as well as our own. Identical characters, too, pervade all the American races, ancient and modern, over the whole continent. We have compared
 many heads of living tribes, Cherokees, Choctaws, Mexicans, \&c., as well as crania from mounds of all ages, and the same general organism characterizes each one. - J. C. N.]

Any South-African race, compared with an American Indian, would exhibit a contrast almost as salient; but a Bosjerman (Fig. 200) from the Cape
of Good Hope answers our purpose. Osteologically, they are as distinct from each other as the akull of a fossil hyena is from that of a prairic wolf; at the same time that each human cranium is emphatically typical of the race to which it appertains.

But, if comparison of an antique American cranium (Fig.198) with the skull of a modern Bushman (Fig. 200), evolves instantaneously such palpable contrasts, still more extraordinary and startling are those which resile when we compare either or hoth with one of the primeval "kumbe-kephalic," or boat-chaped skulls (Figs. 201, 202),

Fia. 202.

exhumed from the pre-Celtic caims of Scotland. ${ }^{\text {ne }}$ Can anything human be more diverse than the osteological conformation of the most ancient type of man known in America from that of the primordial Briton? Be it duly noted, too, that while, on the American continent, the earliest cranium resulting from Squier's researches is every way identical (as we shall demonstrate hercinafter) with crania of the Creeks, and other Indian nations of our own generation, men of this kumbe-kephalic type occupied the British Isles long prior to the advent of those brachy-kephalic races, who were precursors of the old Celts; themselves, in Britain, antedating all hiptory! Of this fact Wilsow's Archaology of Scotland furnishes exuherant evidences; to be enlarged upon hy us in dealing with "Comparative Auatomy."
Hamilton Smith and Morton havo contended that no teat is known hy which fossil human are distinguishahle from other fossil bones of extinet species. ${ }^{3 /}$. The question, to say the least, is an open one; although none can aver that there are not human fossils as old as those of the mastodon and other extinct animals. The following extract from Morton's memoir is intereating, taken in connection with the American type:-

[^77]It seeme clear, that the Indians of America are indigenous to the soil; hut it does not follow, that in ancient times there might not have been some occasional or accidental immigrations from the Old World, though too small to affect materially the language or the type of the aborigines. There are several quite recent examples recorded, where boats with persons in them have been blown, from the Pacific ialands and other distant parta, to the shores of America; and in this way may be explained certain facts, connected with language, which have been adduced as evidence of Asiatic origin for our Indians. But we protest, in the name of science, against the notion that any of these ancient possibilities have yet entered into the category of ascertained facts. On the contrary, all known anatomical, archeological, and monumental proofs oppose such hypothesis.

Possible, also, is it that the Northmen discovered this country several hundred years before Columbus, and held intercourse with it as far as Labrador; yet they have left no trace of tongue nor vestige of art.

Agricultare is acknowledged on all handa to have incited the first steps toward civilization, and, for some most curious facts on this head, the reader is referred to Mr. Gallatin's paper. ${ }^{\text {s8 }} \quad$ Was the agriculture found in Ameriea by the Whites, introduced at an early epoch from abroad, or was it of domestic origin? This question has excited
much conjecture, and is an important one, as it necessarily involves the origin of American civilization. The following facts are certainly very significant : -

1. All those nutritious plants cultivated and used for food in the other hemisphere, such as millet, rice, wheat, rye, barley, and oats, as well as our domestic animals-horses, cattle, sheep, camels, goats, \&c., were entirely unkaown to the Americans.
2. Maize, the great and almost sole foundation of American civilization, is exclusively indigenons, and was not known to the other hemisphere until after the discovery of America. ${ }^{37}$

The kind of beans by the Spaniards called frijoles, still cultivated by the Indians in Mexico and Central America, is indigenous to our continent, and even now unused in the other.

If these facts be conceded, as they lave heretofore been by all naturalists and archæologists, it will not be questioned that the agriculture of America was of dornestic origin, as well as the semi-civilization of any Indian cultivators. These premises alone estahlish a primitive origin and high antiquity for the American races.
Inquiry into their astronomical knowledge, their arithmetic, dinision of time, narnes of days, \&c., will show that their whole system was peculiar; and, if not absolutely original, must antedate all historical times of the Old World, since it has no parallel on record. The Chaldeans, tbe Cbinese, the Egyptians, and other nations of the Eastern hemisphere, had divisions of time and astronomical knowledge more than 2000 years в. c.; nevertheless, among ancient or modern Indians, there rernains no trace of these trans-Atlantic systems.

[^78]Ac. The Mexienns distinguinhed every one of their days of the period of twenty days, by a specific anme-Cipacti, Ehecath 8 Ec . ; and every day of the period of thirteen days, by a nomerical order, from one to thirteen." ${ }^{39}$

These can be neither called weeks nor months - they were arbitrary divisions, used long before the Christian era, and no doubt long before the Americans had any idea of the true length of the solar year. This they arrived at with considerable accuracy, but, as we bave reason to believe, not many centaries before the Spanish conquest. With regard to the origin of the astronomical knowledge of American races, tbere bas been much discussion. Humboldt has pointed out some striking coincidences in the Mexican modes of compating time, names of their months, and similar accidents, with tbose of Tbibct, China, and other Asiatic nations; which (were pbilology certainty, and old Jeauit interpretation safe, would look very mueb as if they had been borrowed, and engrafted on American systems at a comparatively reeent period. On tbe other hand, he has laid stress upon some of the peculiarities especially distinguishing the Mexican calendar, and whicb cannot be ascribed to foreign origin sucb as the fact already mentioned, that the Mexicans never counted by mouths or weeks.

> "What is remarkable too [says Humboldt], is, that the calender of Pera affords indubitable proofs not only of atronomical observations and of a certain degree of astronomical knowledge, hat also that their origin was independent of that of the Mexicans. If both the Mexican and Peruvian calendars mere not the resuit of their 0 wa independent observations, we muat bappose a douhle importation of astronomical knowledge - one to Peru, and another to Mexico - coming from difierent quartere, and hy people posesssed of different degrees of knowledge. There is not in Pert any trace of identity of the names of the lags, or of a resort to the oomhination of two series. Their months were alternately of twenty-nine and thirty days, to which eleven days wert added, to completo the year."

Now, if the Mexican calendar differed, "toto calo," from that of the Peruvian, it follows that their respective origins were distinct; and if neither, as Humboldt indicates, was constructed upon a foreign or Asiatic basis, how are any suppositions of antique intercoursc between the two hemispheres justified by astronomy? Why, if the Peruvians did not borrow from the Mexicans, (their contemporaries on the samo continent,) should they not have taugbt themselves, just as the Mcxicans did their ownselves, systems as unlike each other as they are separated by nature, times, and spaces, from every one adopted by those types of mankind, whose physical structure is from tbese Americans utterly diverse?

Some of the astronomical observations of the Mexicans were also clearly local: the two transits of the sun, for instance, by the zenith of Mexico, besidea others.

Assuredly the major portion, then, of the astronomical knowledgu of the aboriginal Americana was of domestic origin; and any of the
ferv points of contact with the calendars of the Old World, if not accidental, must have taken place at an exceedingly remote period of time. In fact, whatever may have come from the Old World was engrafted upon a aystem itself still older than the exotic shoots.
But, if it atill he contended that astronomy was imported, why did not the immigrants bring an alphabet or Asiatic system of writing, the art of working iron, mills, wheel-barrows (all, with remembrance even of Oriental navigation, unknown in America)? Or at least the seeds of millet, rice, wheat, oats, barley, \&c., of their reapective botanical provinces or countries? Ales! suatainers of the Unity-doctrine will be puzzled to find one fact among American aborigines to support it.
In conclusion, we have but to sum up the facts briefly detailed, and these results will be clearly deducible, namely : -

1. That the continent of America was unknown not only to the ancient Egyptians and Chinese, but to the more modern Hebrewe, Greeks, and Romans.
2. That at the time of its discovery, this continent was populated by millions of people, resembling each other, possessing peculiar moral and physical cbaracteristics, and in utter contrast with any people of the Old World.
3. That these races were found aurrounded everywhere by animals and plants specifically different from those of the Old World, and created, as it is conceded, in America.
4. That these races were found speaking several hundred languages, which, although often reeembling each other in grammatical structure, differed in general entirely in their vocahularies, and were all radically distinct from the languages of the Old World.
5. That their monuments, as seen in their architecture, sculpture, earth-works, shell-banks, \&c., from their extent, dissemination, and incalculahle numbers, furnish evidence of very high antiquity.
6. That the state of decomposition in which the akeletons of the mounds are found, and, ahove all, the peculiar anatomical structure of the few remaining crania, prove these mound-builders to have heen hoth ancient and indigenous to the soil; hecause American crania, antique as well as modern, are unlike those of any other race of ancient or recent times.
7. That the ahorigines of America possessed no alphabet or trulyphonetic system of writing-that they possessed none of the domestic animale, nor many of the oldest arts of the Eastern hemisphere; whilst their agricultural plants were indigenous.
8. That their system of arithmetic was unique - that their astronomical knowledge, in the main, was indubitably of cis-Atlantic
origin; while their calendar was unlike that of any people, ancient or modern, of the other hemisphere.

Whatever exception may be taken to any of these propositions separately, it must be conceded that, when viowed together, they form a mass of cumulative testimony, carrying the ahorigines of America back to the remotest period of man's existence upon earth.

The entire scope of argument on these subjects may be presented in the vigorous language of LordKaimes; expressing ideas entertained by himself and the anthors in common, although more then seventynine years interlapse between their respective writings : -
"The frigidity of the North Americans, men and women, differing in that particular from all other savages, is to me evideace of a separate race. And I ato the wore confirned in that opinion, when I fiad a celebrated writer, whose abilities no person oalts in question, endervoring in pain to ascribe that circumatance to moral and physieal eausea. Si Pergama derira defindi pouset.
"In coneluding from the foregoing facta that thero are difforent racea of med, I reckon upon strenuons opposition; not only from men biaseed against what is net or uncommon, hut from numberlesa aedate writers, who bold overy distinguishing mark, faternal as woll ws exterasl, to be the effect of soil and climate. Against the former, patience is my only ehield; but I cannot bope for any converts to $a n$ ne opinion, without removing the arguments urged by the istter.
"Among the endless number of writers who asertbe atpreme afflescy to the climate, Vitruvius shall take the lead. 3 . . .
" Upon aumming up the whole particulars mentioned above, would one hesitate amoment to adopt the following opinion, were there no counterbalaocing evidence: viz., 'That God crested many palra of the human race, differing from each other hoth eiternaliy and interally; tbat he fitted these palre for different olimatets and placed each pair in ita proper climste; that the peculiarities of the original pairs were preserved entire in their deacendants - Who, haring no essintence but their natural tajents, were left to gather knowledge from axperience, and in particular were lell (esch tribe) to form a language for juclf; that aigus were sufficient for the original pairs, without any luggage but what nature suggests ; and that a languge was formed gradually, as a tribe locreased in numbers and in different occupations, to make apeech neoessary!' But this opinion, bowever plausible, we are not permitted to adopt, being taught a different leason by revelation : viz., That God created but a single pair of the human speoies. Though we canoot douht of the eathority of Moses, yet his accouot of the creation of man is not a little puzzling, as it seems to contradict every one of the facts montioned above. According to that accounth different races of men were not formed, bor were men framed originally for differsat climates. All men must have opoken the smme language, tix., that of our first parents. And What of all seems the moat contradietory to that acconat, is the aspage ateto: Adam, as Noses informs us, was.endaed by hia Maker with an eminent degree of knowledge; and be certeinly must beve been en excellent precoptor to his children and their progeny, among Whom be lived many generaliona. Wbence then the degeneracy of all men unto the anvage atate: To account for that dimal eatastrophe, mankind muat have raffered some terrible convulsion.
"That terrible convalsion is revesled to us in the history of the Tower of Babel." ${ }^{\text {Hs }}$. . .
Babylon's 'Tower (it is known to cuneiform students of the present day) did not exist before the reign of Nebdchadnezar; who huilt it during tbe seventh century $\mathrm{B} . \mathrm{c}^{356}$ As the edifice does not concern Ethnology, we pass onfard.

## CHAPTERX.

## Execrpta

## FROM MORTON'S INEDITED MANUSCRIPTS.

[Althoder not in the mature shape in which Dr. Morton habitually submitted his reflections to the scientific world, and destitute, nlas! of his own improvements, a contribution, so valuable to that study of Man which owes ite present momentum to bis genius, must not be overlooked in "Types of Mankind." With their joint acknowledgments to Mrs. S. Geo. Morton, for the unreserved use of whatever autographs tbeir much-honored friend intended for eventual publication, the authors annex two fragmentary essays. Overcome by illness, the Doctor withdrew from bis library on the 6th of May, 1851; leaving these, among other evidences of an entbusiasm for science whicb death alone could stife. The authors take the more pleasure and pride in embodying such first rough-draughts, fresh as they flowed from his mind - not unstadied, but unadorned. Dr. Morton is here beheld in bis office, writing down with characteristic simplicity, wbile disturbed by professional interruptions, the resulte of his incessant lahor and meditation, coucbed in the language of truth.]
[MANUBCRIPTA.]
> "On the Size of the Brain in Various Races and Families of Man; with Ethnological Remarke. By Samull George Morton, M.D.: Philadelphia and Edinburgh."

The importance of the brain as the seat of the faculties of the mind, is preëminent in the animal economy. Hence the avidity with which its structure and functions bave been studied in our time; for, although mucb remains to be explained, much has certainly becn accomplisbed. We havo reason to believe, not only that the brain is the centre of the whole series of mental manifestations, but that its several parts are so many organs; each one of whicb performs its peculiar and distinctive office. But the number, locality, and functions of these several organs are far from bemg determinea: nor
should this uncertainty surprise us, when we reflect on the slow and devious process by which mankind have arrived at some of the simplest physiological truths, and the difficulties that environ all inquiries into the nature of the organic functions.

In studying ethnology, and especially in comparing the crania of the several races, I was struck with the inadequacy of the methods in use for determining the size and weight of the brain. On these methods, which are four in number, I submit the following remarks:

1. The plan most frequently resorted to is that which measures the exterior of the head or skull within Farious corresponding points. We are thus enabled to compare the relative conformation in different individnals, and in this manner obtain some idea of the relative size of the brain itself. Such measurements possess a great value in craniology, and, we need hardly add, are the only ones that are available in the living man.
2. The plan of weighing the brain has been extensively practised in modern times, aud with very instructive reaults. Haller found the encephalon to vary, in adult men, from a pound and $a$ half to more than five pounds; and the Wenzels state the average of their experiments to range from about three pounds five ounces to three pounds ten ounces.*

The experiments of the late Dr. John Sims, of London, which, from their number and accuracy, deserve great attention, place the average weight of the recent brain between three pounds eight and three pounds ten ounces, or nearly the same weight as that obtained by the Wenzels. Of 253 brains weighed by Dr. Sims, 191 were adults from twenty years old to seventy, and upwards; and of the whole series, the lowest wcighed two pounds, and the highest an ounce less than four pounds. $\dagger$

Prof. Tiedemann, of Heidelberg, a learned and accomplished anatomist, has pursued the same mode of investigation. After giving the weight of fifty-two European brains, he adds that
"The weight of the brain in an adult Europesn varies between three ponnds two ounces and four pounds six ounces Troy. The brain of men who have distinguished themselvea by their great talents are often very large. The brain of the celebrated Covier weighed four pounds, eleven ounces, four drachme, thirty grajus, Troy; and that of the diatinguisted surgeon, Dupuytren, weighed four pounds ten ounces Troy. The brain of men ondowed with but feeble intellectual powers, is, on the contrary, often very omsil, particulariy in congenital idiotismus. The femalo brain is lighter than that of the male. It varies between two poonds eight ounces and three pounds eleven ounces. I never found a femade brain that weighed four pounds. The femele brain weighs, on an average, from four to aight onnces less than that of the male; and this difference is already perceptible in s new-born child" ${ }^{\text {+ }}$

[^79]Sir W. Hamilton adds, that in the male about one brain in seven is found above four pounds Troy; in the female hardly one in an hundred.

These results are highly instructive, and furnish the average weight of the cerebral organs at the time of death; but whoever will examine the valuable tables of Dr. Sime, will observe that various circnmstances may affect the weight of the brain, without, at the same time, modifying its size; viz.: extreme sanguineous congestion; fluids contained in the ventricles; interstitial effusion; extravasation of blood, and softening and condensation of atructure. These morbid changes sometimes take place rapidly, while the absolute bulk of the brain remains unaltered. Again, the plan of weighing the encephalon nust always be a very restricted one; and is not likely ever to be practised on an éxtensive scale, except in the Caucasian and Negro.
3. Another, but indirect, mode of ascertaining the weight of the brain, has been practised by Sir William Hamilton, who "examined about 300 buman skulls, of determined sex, the capacity of which, by a method he devised, was taken in sand, and the original weight thus recovered."

Respecting the process employed in these experiments I am not informed; and I agree with Dr. Sims, that the weight of the braincannot be determined by ascertaining the capacity of the cranium, by any method, however accurate in itself.

Nore recently, Prof. Tiedemann bas performed an elaborate series of experiments to determine the comparative weight of the brain in the difficent buman races.

[^80]The results obtained hy Prof. Tiedemann, like those of Sir William Hamilton, possess a great value in researches of this kind; yet, unfortunately, they are not absolute either as respects the size or weight of the brain; for it is evident that the second of these objects could only be obtained hy employing a medium of the same density as the brain; and as to capacity, no method had, at that time (1897), been devised for obtaining it in cubic inches.
4. Seeing, therefore, that the several processes just described are not absolute, but only comparative in their rcsults, without affording

[^81]either the true weight or true bulk of the brain, I solicited my friend, Mr. John S. Phillips, to devise some more satisfactory method of obtaining the desired object; and this has been entirely successful in the following manner.

A tin cylinder was made, about two inches and three-fourths in diameter, and two feet two inches in height, standing on a foot, and banded with swelled hoops about two inches apart, and firmly soldered to prevent accidental flattening. A glass tube, hermetically sealed at one end, was cut off so as to hold exactly five cubic inches of water by weight, at $60^{\circ}$ Fabrenbeit. A float of light wood, well varnished, two and one-fourtb incbes in diameter, with a slender rod of the same material fixed in its centre, was next dropped into the tin cylinder. Then five cubic inches of water, measured in the glass tube, were poured into the cytinder, and the point at which the rod on the float stood above the top of the cylinder, was marked by the edge of a file laid across its top. And, in like manner, the successive gradations on the float-rod, indicating five cubic inches each, were obtained hy pouring five cubic inches from the glass tube gradatim, and marking each rise on the float-rod. The gradations thus ascertained were transferred to a mahogany rod, fitted witb a flat foot, and these were again subdivided by means of compasses to mark the cubic inches and parte.*

In order to measure the internal capacity of a craniam, the larger foramina mast be first stopped with cotton, and the cavity then filled with leaden shot one-eighth of an inch in diameter, poured into the foramen magnum. This process should be effected to repletion; and for this purpose it is necessary to sbake the skull repeatedly, and, at the same time to press down the shot witb the finger, or with the end of the funnel, until the eavity can receive no more. The shot are next to be transferred to the tin cylinder, which should also be well sbaken. The mahogany rod being then dropped into the tin eylinder, with its foot resting on the shot, the capacity of the cranium will be indicated by the number observed on the same plane with the top of the tube.
I thus ohtsin the absolute capacity of the cranium, or bulk of the brain in cubic inches; nor can I avoid expressing my aatiefaction at the singular accuracy of this method; inasmuch as a skull of 100 cuhic incbes capacity, if measured any number of times with reasonahle care, will not vary a single cubic incb.

On first using this apparatus, I employed, in place of shot, whitepepper seed, which possessed the advantage of a apheroidical form

[^82]and generin uniformity in the size of the grains. But it was soon manifest that the utmost care could not prevent considerable variation in several successive measurements, sometimes amounting to three or four cubic inches. Under these circumstances, but not until all the internal capacity measurements of the Crania Americana had been -made in this way, I saw the neeessity of devising some other medium with which to fill the cranium; and after a full trial of the shot, have permanently adopted it, with the satisfactory results above stated.* Tbese remarks will explain the difference between the measurements published in the Crania Americana and those ohtained from the same skulls hy the revised method. $\dagger$

In'an investigation of this nature, the question arises - At what age docs the hrain attrin full development? On this point, there is great diversity of opinion. Professor Sümmering supposes this period to be as early as the third year. Sir William Hamilton expresses himself in the following terms: "In man, the encephalon reaches its full size about seven years of age. This," he adds, "was never before proved." The latter remark leads us to infer that this able and laborious investigator regarded his proposition as an incontestable fact. Professor Tiedemann assumes the eighth year as the period of the brain's maximum growth.
Dr. Sims, on the other hand, inferred from an extended series of experiments on the brain from a year old to upwards of seventy, that "the average weight goes on increasing from one year to twenty; between twenty and thirty there is a slight increase in the average; afterwards it increases, and arrives at the maximum between forty and fifty. After fifty, to old age, the brain gradually decreases in weight." These ohservations nearly correspond with those of Dr. Gall, hut are liable to various objections.
Dr. John Reid has also investigated this question on a large scale and with great carc. After weighing 253 brains of hoth sexes and of various ages, he arrives at the conclusion that the encephalon arrives at its maximum size sooner than the other organs of the body; that ite relative size, when compared with the other organs, and to the cutire body, is much greater in the child than in the adult; and that although the avernge weight of the mule brnin is absolutely beavier than that of the female, yet the avcrage female brain, relative to the whole body, is somewhat beavier than the average male brain. Finally, he observes that his experiments do not afford any support to the proposition that the encephalon attains its maximum weight at or near the age of seven years. On this latter point, which is of

[^83]great importance in the present inquiry, I shall offer a few remarks. -The most obvious use of the sutures of the cranium is to subserve the process of growth, which they do hy osseous depositions at their margins. Hence one of these sutures is equivalent to the interrupted structure that exista hetween the shaft and epiphysis of a long hone in the growing state. The ahaft grows in length chiefly by accretions at its extremities; and the epiphysis, like the cranial suture, disappears when the perfect development is accomplished. Hence we may infer that the skull ceases to expand whenever the sutures become consolidated with the proximate bones. In other words, the growth of the hrain, whether in viviparous or in oviparous animals, is consentancous with that of the skull, and neither can be developed without the presence of free sutures.*

From these considerations, and from many comparisons, $\bar{I}$ cannot admit that the hrain has attained its physical maturity at the age of seven or eight years; neither is there satisfactory evidence to prove that it continues to grow after adult age. It may poseihly increase and decrease in size and weight after that period, without altering the internal capacity of the cranium, which last measurement will always indicate the maximum size the encephalon had attained at (the) period of ite greatest development; for in those instances in which this organ has heen ohserved in a contracted or shrunken state, in very old persons, the cranial cavity has remained to all appearance unaltered. $\dagger$

We know that at, and often before, the age of sixteen years the sutures are already so firmly anchylosed as not to he separated without great difficulty, or even without fracture ; whence we may reasonably infer that the encephalon has nearly, if not entirely, sttained its

[^84]growth; and I have therefore commenced my expericaents with this period of life. I am aware that it cannot be as asfely asumed for the nations who inhahit the frigid and temperate zones, as for some inter-tropical races - the Hindoos, Arab-Egyptians, and Negroes, for example; for these people are proverbially known to reach the adult age, both physically and morally, long before the inhahitants of more northern climates. But, if the average period of the full development of the brain could be ascertained in all the races, it would, perhaps, not greatly vary from the age of sixteen years.
It is evident that this age cannot be always positively determined in the dried skull; yet hy a careful comparison of the teeth and sutures, in connection with the general development of the cranial structure, I have had little difficulty in keeping within the prescribed limit.

In classing these skulls into the two sexes, I have been in part governed hy positive data; hut is the greater number this question has been proximately determined hy merely comparing the development and conformation of the cranisl structure.

- I have excluded from the Table the crania of idiots, dwarfs, and those of persons whose beads bave heen enlarged or otherwise modified by any ohvious morbid condition. So, also, no note has been taken of individuale who hlend dissimilar races, as the mulatto, for example - the offspring of the Caucasian and the Negto. Those instances, however, which present a mixture of two divisions of the same great race, are admitted into the Table. Such is the modern Fellah of the Valley of the Nile, in whom the intrusive Arab is engrafted on the Old Egyptian.
The measurements comprised in this Memoir have been derived, without exception, from skulla in my own collection, in order that their accuracy may at any time he tested hy myself or by others. I have also great aatisfaction in stating, that all these measurements have been made with my owa hands. I at one time employed a person to assist me; hut having detected some errors in his numbere, I have been at the pains to revise them all, and can now therefore vouch for the accuracy of these multitudinous data.
My collection at this time embraces [*] humau crania, among which, however, the different races are very unequally represented. Nor has it been possihle, for reasons already mentioned, to subject the entire series to the adopted measurement. Again, some of thesc are too much hroken for this purpose; while many others are embalmed beads, which cannot he measured, on account of the presence of bitumen or of desiceated tissues.

[^85]
## [MANUSCRIPT B.]

## (Origin of the Human Species.)

Before proceeding to an analysis of these materials, I purpose to make a very few remarks on the origin of the Human Species as a zoological question, and one inseparably associated with classification in Ethnology.

After twenty years of observation and reflection, during which period I have always approached this subject with diffidence and caution; after investigating for myself the remarkable diversities of opinion to which it has given rise, and after weighing the difficulties that beset it on every side, I can find no đatisfactory explanation of the diverse phenomena that characterize physical Man, excepting in the doctrine of an original plurality of races.

The commonly received opinion teaches, that all mankind have been derived from a primeval pair; and that the differences now, observable among the several races, result from the operation of two principal causes:

1. The influenee of chmate, locahty, civilization, and other physical and moral agents, acting through long periods of time. The manifest inadequacy of this hypothesia, led the late leamed and lamented Dr. Prichard to offer the following ingenious explanation.
2. The diversities among mankind are mainly attributable to the rise of accidental varieties, which, from their isolated position and exclusive intermarriage, have rendered their peculiar traits permanent among themsclves, or, in other words, indelible among succeeding generations of the same stock.

The preceding propositions, more or less modified and blended together, are by many ethnologists regarded as adequate to the explanation of all the phenomena of diversity observable in Man.

If, however, we were to be guided in tbis inquiry solcly hy the evidence derived from Nature, whether directly, in the study of man himself, or collaterally by comparison with the other divisions of the zoological series, our conclusions might be altogether different: we would be led to infer tbat our species had its origin not in one, but in many creations; that these were widely distrihuted into those localities upon the earth's surface as were beat adapted to their peculiar wants and physical constitutions; and that, in the lapse of time, thees races, diverging from their primitive centres, met and amalgamated, and bave thus given rise to those intermediate links of organization which now connect the extremes together.*

[^86]In accordance with this view, what are at present termed the five races would be more appropriately called groups. Each of these groups is again divisible into a smaller or greater number of primary races, each of which has itself expanded from a primordial nucleus or centre. To illustrate this proposition, we may suppose that there were several centres for the American groups of races, of which the highest in the acale are the Toltecan nations - the lowest, the Fuegians. Nor does this view conflict with the general principle, that all these nations and tribes have had, as I have elsewhere expressed it, a common origin; for by this term is only meant an indigenous relation to the country they inhabit, and that collective identity of physical traits, mental and moral endowments, language, \&c., which characterise all the American races.*

The same remarks are applicable to all the other human races; but in the present infant state of ethnological science, the designation of these primitive centres would be a task of equal delicacy and difficults.

It would not be admissible in this place, to inquire into the respective merits of these propositions; and we shall dismiss them for the present with a few hrief remarks.

If all the varieties of mankind were derived from a single aboriginal type, we ought to find the approximation to this type more and more apparent as we retrace the labyrintl of time, and approach the primeval epochs of bistory. But what is the result? We examine the venerable monuments of Egypt, and we see the Caucasian and the Negro

[^87]depicted, side by side, master and slave, twenty-two centuriea before Christ; while inseriptions establish the same ethnological distinctions eight hundred years earlier in time. [ ${ }^{3 /}$ ] Abundant confirmation of the same general principle is also found on the numberless vases from the tombs of Etruria; the antique sculptures of India; the pictorial delineations of the earliest Chinese annals; the time-honored ruiss of Nineveh, and from the undated tablets of Peru, Yucatan, and Mexico. In all these localities, so far removed by apace from each other, and by time from us, the distinctive characteristics of the humen races are so accurately depicted as to enable us, for the most part, to distinguish them at a glance.

We earnestly maintain that the preceding views are not irreconcileahle with the Sacred Text, nor inconsistent with Creative Wisdom as displayed in the other kingdome of Nature. On the contrary, they are calculated to extend our knowledge and exalt our conceptions of Omnipotence. By the simultaneons creation of a plurality of original stocks, the population of the Earth became not an accidental result, but a matter of certainty. Many and distant regions which, in accordance with the doctrine of a single origin, would have remained for thousands of years unpeopled and unknown, received at once their allotted inhahitants; and these, instead of being left to atruggle with the vicissitudes of chance, were from the beginning adapted to those varied circumstances of climate and locality which yet mark their respective positions upon the earth.*

## I. THE CAUCASIAN GROUP.

Tab Trutonic Racb. - I ase this appellation in the comprehensive sense in which it has been employed by Professor Adelung; for the great divisions established by this distinguished scholar, though based exclusively on philalogical data, are fully sustained by comparisons in physical ethnology. Of the three great divisions, tbe Scandinavian lice chiefly to the north of the Baltic sea; the Suevic and Cimbric on the eoath.

1. The Susvic nations embrace the Prussians on one hand, the Tyrolese on the other; while between these lie the Austrians, Swiss, Bavarians, Alsatiqns, and the inhahitants of the Upper and Middle
[^88]Rhine. These nations once extended into the north-eastern section of Europe, wheuce they were driven by the Sclavonic tribes.
2. The Cimbic nations occupy western Germany, and among many subordinste families, embrace the Saxons, Frisians, Hollanders, \&
3. The Scandinavian race is regarded hy Adelung as a mixture of Suevic and Cimbric trihes. It includes the Danes, Swedes, Goths, and Icelanders; for although it is a disputed question, whether the Goths carme from Scandinavia, or from the northern shores of the Baltic sea, the evidence preponderates in favor of the former opinion. Tbe Vandals, however, appear to have been atrictly a Suevic people.

Of these great divisions I posess but twenty-three skulls, of which twenty-one are used in the Table. Of this number, all but one have been obtained from hospitale and institutions for paupers, whence we may infer that they pertain to the least cultivated portion of their race. The proportion of males to females is twelve to nine.

The exception alluded to above is the skull of a Dutch gentleman of noble family, who was born in Utrecht, received a good education, was of convivial hahite, and died at an early age, in the island of Java. I particularize this cranium, because it is by far the largest in my whole series; for it measures 114 cubic inches of internal capacity. Contrasted with this is a female Swedish head, kindly sent me, with several others, by Professor Retrius of Stockholm, which sinks to aixty-five cubic inches. Between these extremes the mean or average is ninety.

The anglo-Saxons. - The next division of the Teutonic race is the Anglo-Saxon; that remarkable people who have made their way with the sword, but marked their track with civilization. At an early period of the Christian era, Angli and Saxones, two powerful tribes, occupied the country between the Cimbrian peninsula, (now called Jutland,) and along the weatern shore of the Elbe to the termination of this river in the Baltic sea. These people commenced their piratical incursions to the coast of Britain in the fourth century, and were masters of the island as early as A.D. 449. They found it chiefly inhabited by the native Britons, who were Cblis; but these latter people had been for nearly 400 years under the dominion of the Romans, who had largely colonized the country; and so complete was this aubjugation, tbat the Latin language was the colloquial speecb of all Britain at the fall of the Roman empire, excepting among the Picte of the coast of Scotland.* From the period of the Anglo-Saxon invasion, the population becarne a blended mixture of the Celtic, Pe -

[^89]laggic, and Teutonic races, among which the latter soon took the preponderance, aud gave its language to the british Islands. The Norman conquest added another physical element of the Teutonic stock.

This fusion of three families into one, varying in degree in differcnt sections of these islands, has given rise to a physioguomy varying in several respects from the Teutonic caste; while the cranium itself is less spheroidal, and more decidedly oval, than is characteristic of that people.

I bave not hitherto exerted myself to ohtain crania of the AngloSaxon race, except in the instance of individuals who have been signalized by their crimes; and this number is too small to be of much importance in a generalization like the present. Yet, since these skalls have heen procured without any reference to their size, it is remarkable that five give an average of 96 cuhic inchcs for the hulk of the hrain; the smallest head measuring 91, aud the largest 105 cahic inches. It is necessary, however, to observe, that these are all male crania; hut, on the other hand, they pertained to the lowest class of society, and three of them died on the gallows for the crime of marder.

The Analo-Ambricans conform, in all their characteristics, to the parent stock. They possess, in common with their English ancestors, a more elongated head than the unmixed Germans. The few cranis in my possession have, without exception, heen derived from the lowest and least cultivated portion of the community - malefactors, paupers, and lunatics. The largest hrain has heen ninety-seven enhic inches; the smallest, eighty-two; and the mean of ninety accords with that of the collective Teutonic race. The sexes of these seven akulls are, four male and three female.

Two or three circumstances connected with the ethnology of the Anglo-American race, seem to call for a passing notice on this oceasion.

Mr. Haldemann has observed that when, in the last century, the color of the American Indian was supposed to be owing to climate, it was boldly ineisted that the descendants of Europeans in this country had already made some progress in a change of color. Since that timo an hundred years bave elapsed; yet, I presume that no sensible person will maintain that they have hrought with them any confirmation of the postulate in question.

Dr. Prichard has heen informed that the heads of Europeans in the Weat Indies approach those of the aboriginal Indian in form, independently of intermixture. On this point I feel qualified to express an opinion. I passed three months in the West Indies, and visited
eight of the islands, when slavery was everywhere in rogue (1834); and $I$ can unhesitatingly declare that $I$ saw nothing to confirm this assertion, which I regard as wholly idle and gratuitous. The only difference that occurred to rae was, that the better class of English women had hecome paler, or whiter, and thinner, on account of the great and constant heat of the climate, and consequent neglect of exercise.

The observations of Dr. Pinkard, an intelligent English author,* correspond entirely with my own. He relates that be saw in the Island of Barhadoes (where I myself passed six weeks), an English family that had lived there through at lenst six generations; "and yet," he adds, "one would suppose them to have been horn in Europe, so fine was the skin, so clear the complexion, and so well formed the features." Similar remarks have been made respecting the Mexican Spaniards, and the colonists of South America generally.

Although hut - skulls are included in the preceding Teutonic geries, yet, when we take into consideration their variety and authenticity; and the fact that they bave heen collected without regard to size, I have no hesitation in assuming ninety cuhic inches for the average of the brain in the Germanic family of nations; and I am further convinced that this standard is the higbest among the races of men.

We should reasonably look for a preponderating brain in a race that is not more remarkahie for its conquests and its colonies, than for the extent of its civilization; a race that bas peopled North America, reduced all India to vassalage, and is fast spreading ittelf over Polynesia, Southern Africa and Australia; a race that is destined to plough the field of Palestine, and reap the harvests of the Nile.

The Sclavonic Race.-It is remarked hy Dr. Prichard, that our acquaintance with the Germanic nations dates back tbree centuries hefore Christ; but the history of the Slavonic trihes begins nine centuries later. They are ohviously the descendants of the ancient Sarmatians, and, among many emaller nations, at present embrace the Russians, Poles, Lithuanians, Bobernians, and Moravians.

I mach regret that my cranial series possesses hut a single example derived from this race,-the skull of a woman of Olmutz eent me by Prof. Retzius, and which measures only -- cubic inches. I record this deficiency in my collection, in the hope that some person interested in pursuits of this nature may be induced to provide me with materials for making the requisite comparisons. My impression is, that the Sclavonic brain will prove much less voluminous than tbat of the Teutonic race.

[^90]The Finnish Racr.--Among these pecple I consider the true type to be preserved in the Western Finns-the aboriginal inbabitants of Scandinavin, the predecessors of the Teutonic nations; for the Estbonians, the Tehudic tribes of Middle Russia and Permia, and, above all, the Ugrians of Siberia, have lived so long in contact with the Mongolian races, that they often present a very mixed physical character.* We should, therefore, be cautious in grouping these communities into a supposed cognate race, merely from analugies of language, which, however important as aids in ethnology, are often no better than blind guides. $\dagger$

I am the more particular in making these remarks, because the Madjars of Hungary have been classed, not only with the Finns, but even with the Bashkirs and Votiaks of Siberia, opon no other grounds than those just mentioned. $\ddagger$ But mark a single admitted fact: the Tchudish tribe of Metzegers speaks the Turkish language, and, for this reason, has been by some writere actually classed with the Tartar races, with whom they were supposed to be affiliated! And, since the stronger often gives its language to the weaker mee, is it not most probable that the Basbkirs, Votiaks, and other tribes have derived their language, by adoption, from the contiguous Tchudic population?

Again, the present Madjars of Hungary entered that country in the middle of the ninth century, not to take possession of an uninhabited region, but to mingle with a numerous existing population; whence their characteristics, both of mind and body, must have undergone a remarkable ehange, and become bighly improved.

History indieates the cause of these changes when it tells us, that when the Madjars arrived in Hungary they at once formed political alliances with the German princes, in order to cbeck or expel "the common cnemies of both nations, the Sclavonian races." It is to be inferred, as a matter of course, under these circumstances, that the intrusive Madjars formed social connexiona, not only with the Sclavonians, whom they reduced to suhjection, in the heart of Pannonia, bat also witb the surrounding German commonities; and, in this

[^91]manner, the blending of dissimilar stocks has produced the modified race so favorably known in the modern Madjar.
For the only skull I possess of this race I am indehted to Prof. Retzius, of Stockbolm. It is that of $a$ woman from the parish of Kerni, in Finland. It has all the characteristics of an unmixed European head, and measures eighty-six cuhic inches of internal capacity.

The Pelagaic Race. - Every one knows that the Pelasgic tribes were the ahoriginal inhahitants of Greeee; that they, in the progress of time, and for unknown reasons, changed their name to Hellenes, and were thus the ancestors of the Greeks.

The Pelasgic occupation of Greece ascends into "the night of time." They may be regarded as the indigenous possessors, the autocthones of the soil. Indeed there is reason to believe that there was a civilization in Pelasgia long hefore that which history attributes to the Hellenic race, though generally attributed to the progenitors of that poople; for a priest of Sais assured Solon (b. c. 400) that the Saitic writings accounted for an antecedent Grccian epoch of 8000 years; and that Greece had moreover possessed a great and beautiful city yet 1000 years earlier in time.*

Statements of this kind, which were once rejected on account of their seeming extravagance, now claim a respectful notice when viewed in connexion with the new lights of chronology. We are, indeed, compelled to acknowledge a great antiquity for a race that could produce the divine morality of Hesiod 900 years hefore Christ.
I do not use the term Pelasgic with ethnological precision, but in this designation place the Greeks and Romana, and their desceudants in various parts of Europe - Greece and Italy, and, in more isolated examples, in Spain, France, and Britain. In the same category I place the Persians, Armenians, Circassians, Georgians, and many other kindred trihes, together with the Greco-Egyptians.

Of four adult Circassian crania hrought me hy Mr. Gliddon, two are malc and two female. The former we may suppose, from appearances, to have been associated with a full share of manly beauty, and measure ninety and ninety-four cuhic inches of internal capacity; the femalc heads measure seventy-nine and eighty; whence we obtain eighty-six cuhic inches as the mean of all. One of these skulls, that of a woman who had passed the prime of life, is remarkable for the larmony of its proportions, and especially for the admirahle conformation of the nasal bonea.
I possess, through the kindness of Mr. Gliddon, two female Parzee skulls, which, though armall, present a heautiful form. One measures eighty-nine cuhic inches, the other only seventy-five.

[^92]It is a highly interesting fact, that whenever the ruling casto is represented in the statues and bas-reliefs of ancient Persia, the physiognomy always conforms to the Pelasgic type. A remarkable example is seen in the head of the first Darius (в. c. 500), sculptured on the Tablet of Behistun, and copied by Major Rawlinson. [Supra, Fig. 44]. Of the same character are the antique headi of Persepolis, Teheran and Chapoor. But we no sooner enter Assyria than the type is wholly changed for those in which the Sernitic features are dominant, as seen at Nineveh, Khorsabad, and other places.

The arts have hecome the handmaid of ethnology; and it may be regarded as an axiom in' this science, that the older the sculptures and paintings, the more perfect and distinctive are the cranial types they represent. Again, there is no evidence to prove that any one of the ancient races, simply as such, is older than another.

Of four adult Armenian skulls, three pertain to men; and the average size of the brain is but eighty-three cubic inches. I have felt some hesitancy in admitting these skulls in this place, for two reasons: 1st, because their characteristics incline almost as much to the Arab type as to the Pelasgic; and, 2dly, because the term Armenian is not always used in a strictly national sense in the East, but is applied to a class of merchants, whose ethnological affinitice must be often very mixed and uncertain. But, inasmnch as these erania are inserted in my original Table, I will not now displace them.

Greek and Greco-Egyptian Heads. - Mr. Combe describes several ancient Greek skulls he had seèn, as of large size, with a full development of the coronal and frontal regions. The head, in classic sculpture, is often small in comparison with the whole figure; whence the remark that a woman proportioned like the Venus de Medicis would necessarily be a fool. The asme disparity has been noticed by Winkclmann in the Farnese Hercules ; but in the Apollo Belvidere, [infra, Fig. 339] the perfect type of manly heauty, the head is faultless.

Whether this smallness of head was a reality among the Greeks, or only a conventional rule of art, has been a disputed question; but we may affely adopt the latter proposition. There can be no doubt, however, that the ancient Pchasgic was smaller than the modern Teutonic brain; and the proofe, which are derived, not from Greece itself, but from Egypt, are contained in the following section:

Of 129 embalmed heads in my collection, 22 present Pelasgic characters, and of these 18 are capable of measurement. Some of them present the most beantiful Caucasian proportions, while others merge hy degrecs into the Egyptian type; and I am free to admit that, in various instances, I have becn at a loss in my attempts to classify these two great divisions of the Nilotic series. Hence it is that nine
skulls, which in my original analysis were placed with the Pelasgic group, I have, on a further and more elaborate comparison, transferred to the Egyptian series.

The Greeks were numerous in Egypt even before the Persian inFasion, b. c. 525 , and their number greatly increased after the conquest by Alexander the Great, nearly 200 years later (в. c. 332). When the Romans, in turn, took possession of the country thirty years before our era, the Greeks had already enjoyed nainterrupted communication with it for five centuries. Their colonies were 300 yeare old; and it is, therefore, by no means surprising that the Egyp-tian-Greek population, which chiefly inhabited Lower Egypt, should be largely represented in the catacombs of Memphis. They are fewer in proportion in Theban sepulchres; and yet fewer as we ascend the Nile; and are hardly seen in the cemeteries of the rural districts. The peaceful occupation of the Delta by the Greeks, for a long period of time, must necessarily have caused an interminable mixture of the two races, and fully accounts for that blended type of cranial conformation so common in the catacombs.

It is further remarkable that these Greco-Egyptian heads, which I have scparated from the other Nilotic crania by their conformation only, and consequently without any regard to size, present an average of eighty-seven cubic inches for the size of the brain; or, no less than scven cubic inches above that of tbe pure Egyptian race, and but three inches less than the average I have assumed for the Teutonic nations. Yet, no one of this eeries is of preponderating size; for the largest measures but ninety-seven , cuhic inches, while the smallest descends to seventy-four.*

Again, if we take the mean of the whole twenty-eight crania embraced in tbe present division, we find it to he eighty-six cubic inches.

The Celtic Racr.-The Celts who, with the cognate Gauls, at one

[^93]period, extended their tribes from Asia Minor to the British Islands, are now chiefly confined, as an unmixed people, to the west and southwest of Ireland, whence have been derived the six cranis embraced in the Table. These range between ninety-seven as a maximum and seventy-ight as a mininum of the size of the brain; and the menn, which is eighty-seven cuhic inches, will prohably prove to be above that of the entire race, and not exceed eighty-five.
France, Spain, and parte of Britain, partake largely of Celtic blood, but so variously blended with the Teutonic and Pelasgic branches of the Caucasian group as to form a singularly mixed population. If a series of crania could be obtained from the old Provincial divisions of France, they would constitute a study of extreme interest; for those of the northern section ought to conform in a marked degree to the German type, from their long intercourse (since A. d. 420) with the Franks, Burgundians, Visigoths, and other Teutonic trihes. Those in the south would present a greater infusion of the Roman physiognomy, with some Greek traits; while the intermediate communities would retain a marked preponderance of their primitive Celtic characteristics. For Cæsar restricts the true Continental Celts between the Garonne on the south and the Seine on the north: for although the genuine Gauls were a Celtic people, many German tribes bore the same collective name among the Romans, in the same way tbat all the nations of the far North were designated Scythians.
Europe was successively invaded by the Celtic, Teutonic, and Sclavonic races. The Celtic migration is of extreme antiquity, yet there can be no qucstion that they displaced preëxisting tribes. Among the latter may be mentioned the Iberians of Spain, who are yet represented by a fragment of their race - the Basques or Euskaldunes of Biscay.

The Indostanic Family. - No part of the world presents a greater diversity of buman races than the country which hears the collective name of India. Exotic nations have repeatedly conquered that unfortunate region, and to a certain degree amalgamated with ita primitive inbahitants. In other instances, the original Hindoos remain unmixed; and heside these, again, the mountainous districts still contain whit may he called fragments of trikes which have taken refuge there, in remote times, in order to escape the sword or the yoke of strangers.
That peninsular India was originally peopled, at least in part, hy races of very dark and even hlack complexion, is heyond a question. These people are stigmatised as Barbarians by their conquerors, the Ayras - a fair race, with Sanscrit speech, whose primal seats were in eastern Persia. They now occupy the country between the Himalaya
mountains on the north, the Vindya on the south, and between the Indian ocean and the Bay of Bengal.* In this region, called AyraVarta, or India Proper, live those once-powerful tribes which it has taken the English more than half a century to subdue. The occupancy of India by these Persian tribes dates, according to M. Guigniaut. from the year 3101 before Christ, when also it is supposed the division of castes was instituted. [ ${ }^{3 \boxplus}$ ]

Of thirty-two adult Indostanic skulls in my collection, eight only can be identified with trihes of the Ayra or conquering race; nor even in this small number is there unequivocal proof of the affinity in question. The largest head in the series, that of a Brahmin who was executed, in Calcutta, for murder, measures ninety-one cubic inches for the size of the hrain - the smallest head, seventy-nine. Two others pertain to Thuggs, remarkable for an elongated form and lateral flatness. The mean of these Ayra heads is eighty-six cahic inches.

Contrasted with this people, and occupying the country adjacent to the Bay of Bengal, are the Bengalees - small of stature, feeble in constitution, and timid in disposition. They are obviously an aboriginal race, upon whom a foreign language has been imposed ; and are far inferior, both mentally and physically, to the true Ayras. Weak and servile themselves, they are surrounded by warrior castes; and perhaps the most remarkable feature of their character is the absence of will, and implicit obedience to those who govern them.
Of these child-like people, my collection embraces twenty-four adult crania, of which the largest measures ninety cubic inches; the smalleat, sixty-seven ; and the mean of all is but seventy-eight.

All the Caucasian families of which we have spoken, belong to that vast chain of aations called Indo-European, in consequence of their having one common tongue, the Sanscrit, as the hasis of their varied languages. This is also the Japetic race, and it extends from India proper in one direction to Iceland in the other.

The Semitic Family. - This group includes the Chaldeane, Assyrians, Syrians, and Lydians of antiquity, together with the Arabians and Hebrews.

The immense number of Jews in Egypt, even after the Exode (b. c. 1528 ), and especially during the Greek dominion of the Lagide, $\dagger$ would lead us to search for the embalmed bodies of this people in the catacombs; and hence it was no surprise to me to identify, with considerable certainty, seven Semitico-Egyptian heads, in all of which

[^94]the Hebrew physiognomy is more or less apparent, and in some of them unquestionable. This identity is further confirmed by the fact, that tbe Jews in Egypt adopted the custom of embalming at a very early period of time (Genesis l. 26). And again, the two nations appear to have fraternized in a remarksble manner; for Adad married the sister of Pharaoh'e wife, and one of Solomon's wives was the daughter of an Egyptian king, who is supposed to have been Osorkon. [8*] To these facts we may add the marriage of Joseph, at a far earlier period of history, with a daughter of the priest of Heliopolis. For these reasons, I repeat, the Hebrew nation should he largely represented in the catacombs.

Five of my embalmed Semitic heads are susceptible of measurement, and give the low average of eighty-two cubic inches - the largest measuring eighty-eight; the smallest, sixty-nine.* In these crania, and also in others of exieting Semitic tribes, I have looked in vain for the pit deseribed by Mulder as situated on the outer wall of the orbit at the attachment of the temporal muscles; and consequently there is no trace of the corresponding elevation, also deseribed hy him, within the orbitar cavity.
I have had hut little success in procuring the cranis of the modern Semitic tribes; and for the tbree that I possess I am indebted to Mr. Gliddon. Of these, two are Baramks or Barmecide Arabs; the third, a Bedouin. The largest measures ninety-eight cubic inches; the smalleat, eighty-four; and the moan is eighty-niue; but if we take the average of these eight Semitic heads, ancient and modern, it will be eighty-five inches.

I also received from Mr. Gliddon three additional skulls, frorn Cairo, which he was assured were those of Jews; [ ${ }^{20}$ ] but their form has induced me to class them, perhaps erroneously, with the Fellahs of Egypt. $\dagger$

Ter Nilotic Racr. - In this designation I include the ancient Egyptians of the pure stock, and the modern Fellahs.

For the extensive series of Egyptian skulls in my possession, I am indebted to the kindness of Mr. Gliddon, Mr. A. C. Harris of Alexandria, in Egypt, Dr. Cbarles Pickering, and Mr. William A. Gliddon. Of these 129 embalmed heads, 83 present the Egyptian conformation; and of the latter number, 55 are capable of being measured.

I may here repeat a previous remark, that aome of theas crania present hoth Pelasgic and Egyptian lineaments, and thus forma transition between the two races; but I have classed them in one group or the other, according to the preponderance of national char-

[^95]acters. In the great majority of ingtances, however, the Egyptian conformation is detected at a glance.

The Egyptian skull is unlike that of any other with which I am acquainted. This opinion, which I long since announced,* has been fully confirmed by suhsequent comparisons, and especially by the receipt of seventeen very ancient and most characteristic crania from tomhs opened in 1842, at the base of the Great Pyramid, hy Dr. Lepsius. $\dagger$

It may be ohserved of these crania (for the rest of the series has heen elaborately described in the Crania Egyptiaca), eleven at least are of the unmixed type, and present the long, oval form, with $s$ slightly receding forehead, straight or gently aquiline nose, and a somewhat retracted chin. Tbe whole cranial structure is thin, delicate, and aymmetrical, and remarkable for its small size. The face is narrow, and projects more than in the Earopean, whence the facial angle is two degrees lese, or $78^{\circ}$. Neither in these skalls, nor in any others of the Egyptian series, can I detect those peculisrities of structure pointed out by the venerable Blumenhach, in his Decades Craniorum; and the exteraal meatus of the ear, whatever may have been the form or size of the cartilaginous portion, is precisely where we find it in all the other races of mon. The hair, whenever any of it remains, is long, curling, and of the finest texture.

On comparing these crania with many fac-similes of monumental effigies most kindly sent me by Prof. Lepsius and M. Prisse d'Avesnes, I am compelled, hy a mass of irresistible evidence, to modify the opinion expressed in the Crania Exgyptiaca - viz.; that the Egyptians were an Asiatic people. Seven years of additional investigation, together with greatly increased materials, have convinced me that they were neither Asiatics nor Earopeane, but aboriginal and indigenous inhahitants of the Valley of the Nile or some contiguous region $\ddagger$ peculiar in their physiognomy, isolated in their institutions, and forming one of the primordial centres of the human family.

Eggyt was the parent of art, science, and civilization. Of these she gave much to Asia, and received some modifying iufluences in return; but nothing more. Her population, pure and peculiar in the early epochs of time, derived by degrees an element from Europe and Asia, and this was increased in the lapse of years, until the Delta hecame a Greek colony, with an interspersed multitude of Jews.

Effigies and portraits of Egyptian sovereigns and citizens are yet

[^96]preserved in monumenta that date back 5000 years,* and they conform, in all their characteristic lincamente, with the heads from the tombs of Gizeh and other Nilotic sepulchres.

Of the fifty-five Eggptian heads measured in the Table, it will he seen that the largest measures but ninety-six cuhic inches of internal capacity, the smallest sixty-eight; and the mean of them all is but eighty. This result was announced in the Crania Agyptiaca, and has been confirmed hy the numerous additional measurementa made since that work was puhlished. Yet, on computing, by themselves, the fifteen crania from the ancient tombs of Gizeh, I find them to present an average of eighty-four cuhic inches. The persons whose bodies had reposed in these splendid mausolea, were no doubt of the highest and most cultivated class of Egyptian citizens; $\dagger$ and this fact deserves to he considered in connexion with the present inquiry. To this we may add, that the most deficient part of the Egyptian akull is the coronal region, which is extremely low, while the posterior chamber is remarkably full and prominent.

The Fellahs. -The Arab-Egyptians of the present day constitute a population of more than $2,500,000$; and that they are the lineal descendants of the ancient rural Egyptians, is proved hy the form of the skull, the mental and moral character of the people, and their existing institutions, among which phallic worehip is, even yet, conspicuous. Clot-Bey has drawn a graphic moral parallel hetween these two extremes of a single race, by showing that both were soher, avaricious, insolent, self-opinioned, satirical, and licentious. Contrasted with these defeets in the old Egyptians, were the many household virtues, and that genius for the arts which has been a proverb in all ages.

When the Saracenic Arabs conquered Egypt in the seventh century of our era, an unlimited fusion of races was a direct and ohvious con-

[^97]sequence; but M. Clot-Bey has judiciously remarked, that the Araba, nevertheless, present but a feeble element in the physical character of the great mass of people:-
" D'ou il rérulte que l'Rgeption actuel tignt besicoup plus, par ses formes, par can carno-
tère, et par sea marars, dea anciens Eggptiens que des revilables Arsbe, dont on ne trouve
le type pur qu'en Arabie." "

The skull of the Fellah is atrikingly like that of the ancient Egyptian. It is long, narrow, somewhat flattened on the sides, and very prominent in the occiput. The coronal region is low, the forehead moderately reeeding, the nasal bones loug and nearly atraight, the cheek-bones amall, the maxillary region slightly progathous, and the whole crainial structure thin and delicate. But, notwithstanding these resemhlances between the Fellah and Egyptian akulls, the latter possess what may be called an osteological expression, peculiar to themselves, and not seen in the Fellah.

The Fellabs, however, do not appear to be the only descendants of the monumental Egyptians; for they exist also in Nuhia, and westward, in isolated communities, in the heart of Africa. Of such origin I regard the Red Bakkari, so well descrihed hy Pallme. [sa ] So, also, the proper Lihyans, the Tuaricke, Kahyles, and Siwahs, who, on the testimony of Dr. Oudney, and the more recent ohservations of Dr. Furnari, possess at least the physical traits of the Egyptian race:-

[^98]There are other reasons for supposing that the Lihyan and Nilotic nations had a cognate source, though their social and political separation may date with the earliest epochs of time.

A few words respecting the Copts. Almost every investigation into the lineage of these people results in considering them a mixed progeny of ancient Egyptians, Berahera, Negroes, Arahs, and Europeans; and these characteristica are so variously blended, as to make the Copts one of the most motley and paradoxical communitice in the world. The Negro traits are visible, in greater or lese degree, in a large proportion of this people, and are distinctly seen in the three akulls in my poseession. The two adult heads, which, on account of their hybrid character, are excluded from the Table, measure respectively eighty-five and seventy-seven cuhic inches for the size of the hrain, and consequently give the low average of eighty-one.
From the preceding ohservations it will appenr that the Fellahs are the rural or agricultural Egyptians, blended with the intrusive Arabian stock; hut the Copts, on the other hand, represent the descend-

[^99]ants of the old urban popalation, whose blood, in tbe lapse of ages, has become mixed with that of all the exotic races which have domicilisted themselves in the cities of Egypt. The mercenary licentiousness of the Copts is proverbial even at the present day.

I sball conclude these remarks on this part of the inquiry by observing, that no mean has been taken of the Caucasian races collectivels, because of the very great preponderance of Hindoo, Egyptian, and Fellah skulls over those of the Germanic, Pelasgic and Celtic families. Nor could any just collective comparison be institated between the Caucasian and Negro groups in such a Table as we have presented, unless the small-brained people of tbe latter division (Hottentots, Bushmen and Australians) were proportionate in number to the Hindoos, Egyptians, and Fellahs of the other group. Such a comparison, were it practicable, would probably reduce the Caucasian average to about eighty-seven cubic inches, and the Negro to seventyeight at most, perhaps even to seventy-five; and thus confirmatively eatablish the difference of at least nine cohic inches between the mean of the two races.

## II. THE MONGOLIAN GROUP.

The learned Klaproth, in his Tableau de l'Asie,' has shown tbat before the year 1000 of our era, the Mongols were inconsiderable tribes in the northwest of Asia, and hence have erroneously had their name given to the most multitudinous of the five great divisions of the human family; but from an unwillingness to interfere with the generally adopted nomenclature of ethnology, I have used the word Mongolian in the comprebensive sense of Buffon and Blumenbach. It embraces nations of disaimilar features, among whom, bowever, there is a common link of resemblanee that justifies the classification for generic purposes. Hence we group together the Chinese, the Kamtschatkans, and the Kalmucks.

I possess but eigbt Mongolian crania, and of these seven are Ohi-nese-ton small a number from which to deduce a satisfactory result. The largest of them measures ninety-one cubic inches, the smallest seventy; and thes give an average of eighty-two. They are all derived from the lowest class of people; and it is not improbable that an average drawn, at least in part, from the higher castes, would approximate much more nearly to the Caucasian mean, perhape to eighty-five cubic inches.

By tbe kindness of Prof. Retzius of Stockholm, I posscss a single akull of a Laplander-a man of aboat forty years of age - whose brain measures no less than ninety-four cabic inches. The charactar-
istics are obviously Mongolian, to which race the Lappes unquestionably belong. Dr. Prichard has produced philological evidence in proof of an opinion maintained by himself and some other learned men, that these people are Finns, who bave acquired Mongolian features from a long residence in the extreme north of Europe. Yet, it mast be remembered that, in former ages they lived much farther south, in Sweden, and side by aide with the proper Finns; wbence has, no doubt, been derived any visible blending of the cbaracters of the two races, and some affinities of language which are known and admitted by all.

This is a vital question in ethnology; and, although we have already made some remarks upon it, it may be allowable in this place to inquire how it happens that the people of Iceland, who are of the unmixed Tentonic race, have for 600 years inhabited their Polar region, as far north, indeed, as Lapland itself, without approximating in the smallest degree to the Mongolian type, or losing an iots of their primitive Caucasian features.*

A recent traveller, $\dagger$ equally remarkable for talent and enterprise, has briefly emhodied the facts of this question in a manner sufficient to decide it in any unprejudiced mind. He declares that the Finns and Laplanders "have scarcely a single trait in common. The goneral physiogromy of the one is totally unlike that of the other; and no one who has ever seen the two could mistake a Finlander for a Laplander." The very diseases to which they are subject are different; and he quotes the learned Prof. Retzius of Stockholm for the fact, that the intestinal parasitic worms of the one race are different from those of the other. Finally, they differ almost as widely in their mental and moral attributes.

But, to show how little mere philology can be depended on in this and other instances, in deciding the affiliation of races, we may adduce the researches of the learned Counsellor Haartman. This eminent philologist has shown that the Carelians, who, from analogy of language, have hitherto been grouped with the proper Finnish race, belong to a totally different family, which invaded the region of the Lake Ladoga, and gave their name to the conquered country. This race, he adds, had a language of,its own, which was lost in the course

[^100]of time, "and has been superseded by the Finnic, from the overpowering inflaence of the neighboring tribes."* Such evidence needs no commentary.

## III. THE MALAY GROUP.

Besides the true Malays, the Malay race is composed of people of dissimilar stock; whence the opinion of M. Leesson, that those of the Indian Archipelago are a mixture of Indo-Caucasians and Mongols. That this amalgamation exiets to a certain extent, there is no question; and in other instances they are variously blended with the indigenous or Oceanic Negro. Hence the origin of the Papues of New Zealand, who are the littoral inhahitants of that continent.

Independently, however, of these mixed breeds, two great families are conspicuous - the Malays proper and the Polynesians - and to these pertsin the twenty-three heads embraced in the Table.

The true Malays have a rounded cranium, with a remarkable vertical diameter and ponderous structure. The face is flat, the cheekbones square and prominent, the osea nasi long and more or less flattened, and the whole maxillary structure strong and salient. The twenty akulls in my pobsession have been collected with ethnological precision, and so much resemble each other, as to remind us of the remark of M . Crawford-that the true Malays are alike among themselves, but unlike among all other nations.
The largest of this series of skulls measures ninetyfeven cubic inches, the smallest sixty-eight; and they give a mean of eighty-six : a large brain for a roving and uncultivated people, who possess, however, the elements of civilization and refinemeat.
Of the Polynbilan Family I possess but three crania that can be measured, and they give a mean of eighty-three cabic inches. An extended series wonld probably show a larger average; but the brain of the Polyneeian, if measured from skulls obtained to the eastward of New Zealand and the Marquesas islands, will prove smaller than that of the true Malay.

[^101]
## IV. THE AMRRICAN GRGUP.

I have hitherto arranged the numberless indigenous tribes of North and South America into two great families: one of which, the Totecan, emhraces the demi-civilized communities of Mexico, Bogota, and Peru; while the other division includes all the Barharous tribes. This classifleation is manifestly arhitrary, hut every attempt at subdivision has proved yet more so. Much time and care will he requisite for this end, which must be based on the observations of D'Orhigny for South America, and those of Mr. Gallatin for the Northern [division of the] continent.

These subdivisions, after all, must he for the most part geographical; for the physical character of the American races, from Cape Horn to Canada, is essentially the same. There is no small varicty of complexion and stature; but the general form of the skull, the contour and expression of the face, and the color and texture of the hair, together with the mental and moral characteristics, all peint to a common standard, which isolates these people from the rest of mankind. The same remark is applicahle to their social institutions and their archæological remains; for Humboldt has shown that the latter are marked by the same principles of art, from Mexico to Peru;* and Mr. Gallatin has decided, heyond controversy, that while their multitudinous tongues are connected by obvious liaks, they are at the same time radically different from the Asiatic or any other languages.

Mr. Gallatin finds this analogy among the American languages to extend to the Eskimaux - and he accordingly separates them from the Mongolian race, and regards them as a section of the great American family. This view may possibly be sustained by future inquiries; bnt the mere fact that the Eskimaux and the proximate Indian tribes speak dialects of one language, is of itself no proof that they belong to the same race. Thus, we may reasonahly suppose that the Asiatic nomades, having amrived on this continent at various and distant periods, and in small parties, would naturally, if not unavoidnbly, adopt more or less of the language of the people among whom they aettled, until their own dialect was finally merged in that of the Chippewyan and other Indians who bound them on the south.

When, on the other hand, famine, caprice, or a redundant population, has forced some of these people hack again, across Behring's Strait, to Asia, they have carried with them the mixed dialect of the Eskimaux; whence it happens that the latter tribes and the Tebutch-
chi possess some linguistic elemente in common: but here the analogy ceases abruptly, and is traced no farther.*
My collection embraces 410 skulls of 64 different nations and tribes of Indians, in which the two great divisions of this race are represented in nearly equal proportions, as the following details will show.

Tab Toltrcan Family.-Of 213 skulls of Mexicans and Peruvians, 201 pertain to the latter people, whose remains have been selected with great care by the late Dr. Burrough, Dr. Ruschenberger, and Dr. Oakford. To the latter gentleman, I am under especial obligations for his kindness in pergonally visiting, on my behalf, the venerable sepulchres of Pisco, Pachacamac, and Arica. These cemeteries, at least the last two, are believed not to have been used since the Spanish conquest; and they certainly contain the remains of multitudes of Peruvians of very remote, as well as of more recent times.
Every one who has paid attention to the subject is aware, that the Peruvian skull is of $\mathfrak{a}$ rounded form, with a flattened and nearly vertical occiput. It is also marked hy an elevated vertex, great interparietal diameter, ponderous structure, aalient nose, and a brond, prognathous maxillary region. This is the type of cranial conformation, to which all the tribes, from Cape Horn to Canada, more or less spproximate. I admit that there are exceptions to this rule, aome of which I long ago pointed out, in the Crania Americana, and others have recently been noticed among the Brazilian trihes by Prof. Retzius.

This rounded form of the head, во characteristic of the Ameriean nations, is in some instances unintentionally exaggerated by the simple use of the cradle-board, in common use among the Indians. *** But on the other haud, whole tribes, from time immernorial, have been in the practice of moulding the bead into artificial forma of singular variety and most distorted proportions. These were made tbe subject of the following experiment. * * *
[The] indomitable savages who yet inhahit the base of the Andes, on the eastern boundary of Peru, will no doubt prove to have a far larger brain than their feeble neighbors whose remains we have examined, from the graves of Pachacarnac, Pisco, and Arica.

If we take the collective races of America, civilized and savage, we find, as in the Table, that the average size of the brain, as measured in the whole series of 338 skulls, is but 79 cubic inches.

In connexion with this subject, it may not be irrelevant to ohserve that the human cranial bones, discovered hy Dr. Lund, in the eaveru near the Lagoa do Sumidouro, in Brazil, and seemingly of a strictly fossil character, conform in all respects to the aboriginal American

[^102]conformation;* thus forming a striking example of the permanence, we might say, immutability of the primordial type of organization, when this has not been modified by admixture with intrusive and dissimilar races.

I bave no doubt that Man will yet be found in the fossil state as low down as the Eocene deposits, and that be walked the earth with the Megalonyx and Paleotherium. His not baving been hitherto discovered in the older stratified rocks is no proof tbat he will not be hereafter found in them. Ten years ago, the Monkey-tribes were unknown and denied in the fossil state; but they have since been identified in the Himalaya mountains, Brazil, and England. $\dagger$
[End of Morton's HSS.]

[^103][Unavailable, owing to its unfinisbed condition, the Table mentioned in the foregoing Memoirs is necessarily omitted. We cannot abstain, notwithstanding, from recalling the reader's attention - first, to the unqualified emphasis with which Dr. Morton's postbumous language insists upon an aboriginal plurality of races; and secondly, to the clear presentiments (engendered by his extensive researches in Comparative Anatomy) that our revered President of the Academy of Natural Sciences avows respecting the eventual discovery of Man in a fossil state.

Palmontological investigation had not fallen within the specialities of either author of this volume; and, in consequence, embarrassment was long felt by both, whether to mould what materials they possessed, concerning fossilized humanity, into a Chapter, or to relinquish a task in itself so indispensable to the nature of their work, no less than to the right understanding of Man's position in Creative history. The anthors' hesitancy ceased when an accomplished friend, familiar with geological and other acientific literature, volunteered a digest of the most recent discoveries: nor will the general reader fail to be aurprised, as well as edified, through the perusal of Dr. Usirr's paper; which, with many acknowledgmenta on the part of J.C.N. and G. R. G., is embodied in the ensaing pages.]

## CHAPTERXI.

## GBOLOGY AND PALAONTOLOGY, IN CONNECTION WHTH HUNAN ORIGINS.

## [Cominibotid by Winian Dereb, M. D., or Mobily.]

Every discovery in modern science tends to enlarge our ideas of the Universe, and to prove that the date of ite creation is as far distant in the past, as the probable consummation of its destiny is remote in the future. Sir William Herschel has shown that there are stars in the henvens so distant, tbat tbe light hy which they are visible to us has been myriads of ycars in its passage to the earth; and the wonderful powers of Lord Rosse's telescope bave not, even yet, penetrated to the circumference of the starry sphere. It is the glory of astronomy to have demonstrated that the planetary bodies may retain their pre-
eent movementa undisturbed through a coming etemity; while chemistry illuatrates the perpetual antagonism of the two great departments of organical nature on our globe, by which the vital properties of the atmosphere have been preserved for ages, as they may continne forever, unimpaired; and, finally, geology informs us that the earth has been, from the beginning, the theatre of constant and progressive changee, having for their object the fitting it for the support of the various races of beinga which, in regular auccession, have been its inhabitants.
Tbe firat great change in the condition of the earth was the condensation of its surface to a solid state, and the contraction of the newly-formed crust during the process of cooling; by which the Plutonic rocks of our'system, the granite, porphyry and basalt, were formed in unstratified and crytallized masees. These underlie all the other rocks, and are sometimes forced up through them by the irresistible power of central heat. Their great eminences were separated by valleys filled with seas,(through the condensation of the circomambient vapors), along whose bottome the stratified rocke were formed by the deposition of varions mineral matters resulting from the disintegration of the primitive formations. The metamorphic rocks were thus formed; and, after becoming solidified by the heat of the cooling mass below them, were finally upheaved by the central force, and composed immense masses in different parts of the globe. Most of the considerable mountain ranges belong to this system. They rest upon a basement of granite, and have been thrown by the upheaving forees into positions inclining at all angles to the horizon. The upturned edges of these primary strata in many places show a thickness of fifteen or twenty miles - they were formed entirely from sediment produced by the disintegration of the hardest rocks, and by the gradual action of the elements; while their deposition, consolidation and elevation must have required periods of time which the mind shrinks from contemplating.

The Koran declares that the world was created in two days; and "Omar the Learned," for asaigning a longer period, was obliged to fly from his country, to escape the disgrace of recanting bis opinions. Happily, we live now under a more enlightoned dispensation.

In these rocks we find no traces of organic remaina to show that the earth was yet inhabited by living beings. But the creation of the earth consisted of a long succession of events, each occupying a distinct geological period, and leaving indelible records of its history in the solid crust of the globe. The creation of organized beinge exhibits a similar succession - each race appearing as soon as the earth was prepared for its reception, continuing so long as the same state of
things existed, and vanishing wben the improvement of the earth had rendered it fit for the maintenance of a higher type of living creatures. All living creaturea were exactly adapted througb their organization to the peculiar localities they were placed in. They perisbed when the conditions necessary to their well-being were cbanged or ceased to exist.

In the next series of strats we find the earliest traces of those tribes of organized beinge which occupied the primeval earth, and bave left the monuments of their existence in the rocks whicb form their tombs. These primary fossiliferous strata are entirely of marine origin, having been formed at the bottom of the ocean; and they contain the remains of marine animals only. The types of these animals are easily recognized - they include representatives of all the great departments of the animal kingdom - but the species and even the genera are entirely lost. The animals, bowever, all belong to the lowest divisions of the different classes. Thus the radiata are represented by zoophytes, crinoides and polyps - each the lowest in their respective classe日. Mollusks, in like manner, exhibit only the lower types; articulata are mostly confined to trilobites; and fishes of the lowest forms are the sole representatives of the vertebrata: there are here no reptiles, no birds, and no mammals.

These primary strata are many thousand feet in thickness, and the organic remains imbedded in them, though belonging to a few species, show that animal life already existed in immense profusion, and extended over wide-fpread regions of the globe. They flourished for countless generations, and their remains are found reposing in earth's earliest sepulchres.

In the next stage of the earth's history we have the Silurian system. Here the forms of life are more varied and abundant-species are multiplied; fishes now make their appearance in nambers and varieties corresponding with the improved conditions for their existence; and sea-plants are found among the fossils of this era. In the old red sandstone, the same orders are continued; new fishes are still more abundant, and all the silurian species have already disappeared. These fossils, again, are entirely distinct from the corresponding species of the carboniferous era which succeeds them. Not a single fisb found in the old red sandatone hes been detected, either in the silurian systern on the one side or in the carboniferous on the other. Tbroughout all subsequent geological eras similar changes took place, and new species replaced the old at every new formation. In proportion as the earth approached its perfect state, the organic types became more complex; but the types originally created were never destrofed, they have been preserved through every succeeding modification and improvement, up to their highest manifestation in man. Regarding
only the great, predominant groups of animale, M. Agassiz has classified the "Ages of Nature" as follows:-1. The primary or Palæozoic age, comprising the whole era preceding the new red sandstone, constituted the reign of fishes. 2. The secondsry age, up to the chalk, constituted the reign of reptiles. 3. The tertiary age was the reign of mammals; and the modern age, embracing the most perfect of created beings, is the reign of man.*

A more minute classification would give us, aince the first appearance of organized beings, not less than ten or twelve great groups of animals specifically independent of one another: so many. entire races have passed away and been successively replaced by others; thus cbanging repeatedly the whole population of the globe.

The fossiliferous strata have been estimated to be eight miles in thickness. They were formed, like the metamorphic rocks, at the bottom of the sea, by sedimentary deposits, and afterwards upheaved in their consolidated form by central heat. Such a process, doubtless, must have been very slow : e.g. the hydrographic hasin of the Tigris and Euphrates is 189,000 equare miles; and the alluvial deposit along the course of those rivers, in the centre, is about 32,400 square miles in extent. The average rate of encroachment on the sea, at their mouths on the Persian Gulf, is about a mile in thirty years. During its season of flood, the Euphrates transports about one-eightieth of ita bulk of eolid matter; and the earthy portion carried by the Tigris past the city of Bagdad, was ascertained by Mr. Ainsworth to be onehundredth of its bulk, or about 7150 pounds every hour. $\dagger$ But these rivers are insignificant compared with the Ganges, which hourly carries down 700,000 cabic feet of mud; or the Yellow river, in China, which transports $2,000,000$ feet of sediment to the sea. Our own Mesha-sebe, "the Father of Waters," though purer than either of the rivers we have named, has already formed a delta 30,000 square miles in extent, and is yearly sweeping to the aes, from his many tributaries, the enormous amount of $3,702,758,400$ cabic feet of solid matter. Yet, notwithstanding auch immense deposita, it has heen estimated that, if the sediment from all the rivers in the world were spread equally over the floor of the Ocean, it would require 1000 years to raise its bottom a single foot ; or about $4,000,000$ of years to form a mass equal to that of the fossiliferous rocks: and if, instead of merely the present extent of the sea, we include the whole surface of the globe in such estimate, the time required must be extended to $15,000,000$ of years. $\ddagger$ When we consider that these atrata were formed at the

[^104]bottom of the sea, and thence upheaved by the operation of natural causes; and that in many cases this process has been more than once repeated; we may claim a very respectable antiquity for our planet, since such changes must have required a duration wholly incalculable.

We have seen that every great geological change was accompanied by the disappearance of existing species and the introduction of new: while the present geographical distribution of planta and animals coincides with the rise of those strata constitating the surface of the globe. All has been successive and progressive; plants and animals were produced in regular order, ascending from simple to complex; one law has prevailed from earth's foundations to its superficies; and thus our present species are autocthonoi, originating on the eontinents or islands where they were first found. Man himself is no exception to this law; for the inferior races are everywhere "glehæ adscripti."

Each of these orders of living heings occupied the earth for an appointed time, and gave way in turu to higher organizations. Fishes ruled over the primeval waters: as land gradually formed itself, they made way for the great amphibious reptiles. Just as fishes represent the first vertebrata of the sea, so reptiles are their earliest representatives on land. Reptiles presided over the formation of continents, and next came tho hirds. As huge reptiles of the sca were succeeded by the marine mammalia-the cetaceans-so, on the land, when mountain chains were thrown up and dry plaing formed, leaving extensive marshy horders, monstrous wading birds, which have left bnt their footmarks behind them, succeeded the reptiles, and were followed in their tarn by the amphibious mammals. Each epoch of the land, as of the sea, (whilst our "earth formed, reformed, and transformed itself,") was marked by the appearance of suitable inhabitants, necessary to the great plan of crestion in preparing the globe for the reception of mankind.

The tertiary formation extends over most of Earope, and comprises those famous goological basins which are the sites of its principal cities, London, Paris, and Vienna; while, in America, it emhraces nearly all the level region of the Middle and the Southern States. Its fossils comprise a mixture of marine, fresh-water, and land species, occurring in such succession as to show extensive alternations of sea and land; and giving reason to beliove that large portions of the present surface of the land werc covered with immense lakes, like Erie or Ontario. The animale of the tertiary period, while entirely different from those of the secondary, were similar to those now existing: marine animals no longer predominated in the creation - the bigher orders of land animals had now appeared. The same adrance is visible in ail the great departments of animated nature. Of the radiates, the
mollusks, and the articulata, the lower forms have entirely disappeared; and the tertiary species are frequently almost identical with those now living: among vertebrata, the enamelled fishes of the earlier epochs bave heen replaced by those with scales like the living species; and, in a word, the whole tertiary fauna resembles our present.

Another important change is noticed in the relative distribution of animals and plants. In the early history of the earth, the asme animais were spread widely over the face of the globe; nearly the whole earth was covered with water, and a uniforn temperature everywhere prevailed: none but marine animals existed, and there was nothing to prevent a great uniformity of type. In the tertiary era everything had altered - the earth's surface was varied with islands and continents, with mountains and valleye, with hills and plains; the see, gathered into separate basins, was divided by impassable harriers. Here, accordingly, we find another great step towards the present condition of organized nature on the earth's surface: not only have higher orders of animals appeared, hut they are confined within narrower limits. The fossils of the tertiary syatem, in different regions, are as distinct as the present faunm and fiorm of those countries Each portion of the land, as it rose above the deep, became peopled with animals and plants best adapted to its occupancy; and the waters necessarily partaking of the physical change, the marine species which swarmed along the shores underwent a corresponding modification.

The earth was now inhabited by the great mammifers, whose conatitution most nearly resembles that of mankind: where they existed, assuredly, man could have existed also. They approximate to humanity in their intelligence, their senses, their wants, their paseions, their animal functions; and when they had " multiplied exeecdingly," we may auppose that man would not be long in making his appearance. Here we meet for the first time with fossil monkeys; the type whose organization most closely assimilates to tho human. It is only within a few years that fossil monkeys have been discovered, and their supposed ahsence was formerly cited as a proof of their recent origin. Monkeys, in atill prevalent aystems of creation, are supposed to have heen coeral witb, or at least hut little anterior to, man; the absence of their organic remains being considered as astisfactory evidence that both men and monkeys were mere creations of yesterday! Fossil monkeys, nevertheless, have been found in England, France, India, and South America. In India, acveral different species have turned up in tertiary strata, on the Himalaya mountains. The French fossils, found in fresh-water strata of the tertiary era, belong to the gibbon or tailliess ape, which stands next, in the scalc of organization, to the orangs.

The Anerican specimen, brought from Brazil by Dr. Lund, is referred to an extinct genus and apecies peculiar to that country. And the Eagliab fossils, belonging to the genus macacus and an extinct apecies, exhumed from tbe London clay, were associated with crocodiles, turtles, nautili, besides many curious tropical fruits.*

Only a few foseil quadrumanes bave as yet been discovered; but a single one is sufficient to establish their existence. The number of animels preserved in rocky strata may bear but a amall proportion to those which have been utterly destroyed. Thus, in the Connecticut sandstone, the tracks of more than forty species of birds and quadrupeds have been found distinctly marked. Some of these birds must have been at least twelve or fifteen feet high; and yet no other vestige of their existence has been discovered. They were the colossal residents of that valley for ages; they have all vanished; and had it not been for the plastic nature of the yielding sand whereon they waded along the river's banks, they would not have left even a footprint behind them. May there not be other creatures which have left no trace whatever of their existence? $\dagger$

In each of the great geological epochas, life was quite as ahundant as at the present day. All departments of the Animal Kingdom had their representatives, and some of them were even more numerons then than at present. Those immense tracts formed by zoophytes, and the incomprebensible masses of microscopic shelle, would almost seem to favor the theory that the whole earth is formed of the dethris of organized heinga. Fowsil fishee are far more plentiful than thoir living representatives; and more shella have heen found in the single hasin of Paris than now exist in the whole Mediterranean. $\ddagger$ The remains of the giant reptiles show their eruberance; and now-extinct species of mammals must have at least equalled in numbers, as they far exceed in size, their living successons. Perhaps the most atriking example is seen in the inexhaustible multitude of fossil elephants daily diacovered in Siberia. Their tusks have been an object of traffic in ivory for centuries; and in some places they have existed in such prodigious quantities, that the ground is still tainted with the smell of animal matter. Their hage akeletons are found from the frontiers of Europe through all Northern Asia to its extreme eastern point, and from the foot of the Altai Mountains to the shores of the Frozen Ocean - a surface equal in extent to the whole of Europe. Some islands in the Arctic Sea are chiefly composed of their remains, mised with the bones of various other animals of living genera, but of extinct species.8

[^105]In whatever way we may account for the series of geological changes thus corsorily enumerated, they must have required immense periods of time; and we have Mr. Babbage's anthority for saying, that even those formations which are nearest to the surface have occupied vast periods, probably milions of years* It is only with these latest formations, however, that we ahall have any immediate concern.
The Diluyiom, or drift, as now called, is almost oniversal in extent (except within the tropics); and is marked by deposits of clay and sand; and erratic blocks or boulders of all sizes, from common pebbles to masses thousands of tons in weight, occur at all levels ap to the summits of lofty mountains, where no agency now in operation could have placed them. The drift abounds in fosen remains of animals; such as the elephant, mastodon, rhinoceros, hippopotamus, and other large mammalia: genera which, now living ouly in warm climates, mnst have then existed in England, France, Germany, and other northern countries. These animale were destroyed by the same inundations which left the deposits we call drift: yet the works and the remains of man have been found among them! These dritt-formations are of immense antiquity, being in this country older than the basin of the Mississippi; and may be regarded as the last great tranaition in the earth's geological history.

All formations of the drift do not belong to one and the same period; nor were they produced by the same causes. According to the glacial theory of Prof. Agassiz, the climate of the northern hemisphere, which had been of tropical warnth, became colder at the close of the tertiary era. The polar glaciers advanced towards the sonth, leaving the marks of their passage in the ground and upon striated surfaces of rocks and mountains, whilst distrihating on every side the blocke and masees they had entangled in their course: which last, with the finer detritus, were swept far and wide by torrents occasioned by the melting of these glaciers.

At other times, a andden elevation of monntain-chains from beneath the surface of the sea, produced violent inandations of surrounding countries, and transported boulders and drift in every direction. The Alps furnish illustrations in point. They have been heaved up since the deposition of the tertiary strata; for those strats are found capping their summits or lying in their mountain-valleys; wbile the "drift" is seen scattered in all directions- on the range of the Jura, and over the plains of Lomhardy. Blocks of granite, 10,000 cubic feet in size, have been found in the Jura mountains, 2000 feet above the Lake of Geneva. The rock in Horeb, fron which
the leader in Israel miraculously drew water, is a mass of syenitic granite, six yards square, lying insulatod upon a plain near Mount Sinai. There are displays of the drift in our owa country, on a magnificent scale, but as our object does not require, nor our limits allow, more than a mere reference to this as an interesting stage in the earth's antiquity, we pass on.

Last comes the Aluvviom; that is, the formation along the margins of rivers and the deltas at their mouths, and the deposition of those superficial coverings of soil which have taken place since the earth assumed its present configuration of sea and land. Of the antiquity of the older formations, foseils have afforded unerring information; each set serving as medals to mark the epoch of their existence. The alluvium must be judged by comparison, and all we ahall attempt is, to show that the earth, in its present condition, has been the babitation of man for many thousand years longer than people commonly suppose.
It appears, from recent observations,* that the hydrographic basin of the Nile (within the limits of rain), is about $1,550,000$ square miles, and the whole habitable land of Egypt is formed of the alluvial deposits of the river. The Delta is of a fan-like form, narrow at its apex below Cairo, and spreading out as it extends towards the sea, until its outer horder is about 120 miles in extent. The same immense deposits are still carried annually to the aea, yet the Delta has not perceptibly increased within the limits of history. Tanis, the Hebrew Zoan, at a very remote period of Egyptian annale, was built upon a plain at some distance from the sea; and its ruins may still be seen, within a few miles of the coast. The lapee of more than 8000 years, from the time of Ramses II., has not produced any great increase in the alluvial plain, nor extended it farther into the Mediterranean. Cities which atood, in his day, upon the cosst, and were even then referred to the gods Osiris and Horus, may still be traced at the same localities; and Homer makes Menelans anchor his fleet at Canopus, at the mouth of the Egyptus or Nile. $\dagger$ In short, we know that in the days of the earlieat Pharaohs, the Delta, as it now exista, was covered with ancient citieg, and filled with a dense population, whose civilization most have required a period going back far boyond any date that has yet been asaigned to the Deluge of Noah or even to the Creation of the world.
The average depth of the Gulf of Merico, between Cape Florida

[^106]and the mouth of the Mississippi, is about 500 feet. Borings have been made near New Orleans to a depth of 600 feet, withont reaching the bottom of the alluvial matter; so that the depth of the delta of the Mississippi may be safely taken at 500 feet. The entire alluvial plain is 80,000 aquare milea in extent, and the smallest complement of time required for its formation has been estimated at 100,000 years.* This calculation merely embraces the deposits made by the river since it ran in ite present channel; bnt such an antiquity dwindles into utter insignificance when we consider the geological features of the country. The bluffe which bound the valley of the Mississippi nise in many places to a height of 250 feet, and consist of loam containing shells of various species still inhabiting the country. These shells are accompanied with the remaine of the mastodon, elephant, and tapir, the megalonyx, and other megatheroid animals, together'with the horse, ox, and other mammalia, mostly of extinct epecies. These blufts must have belonged to an ancient plain of ages long anterior to that through which the Mississippi now flows, and which was inhar bited by occupants of land and fresh-water shells agreeing with those now existing, and by quadrupeds now mostly extinct. $\dagger$

The plain on which the city of New Orlosns is built, rises only nine feet above the sea; and excavations are often made far below the level of the Gulf of Mexico. In these sections, several successive growthe of cypress timber have been brought to light. In digging the foundations for the gas-works, the Irish apadesmen, finding they bad to cut through timber instead of soil, gave up the work, and were replaced by a corpe of Kentucky axe-men, who hewed their way downwarde through four successive growths of timber - the lowest so old that it cut like cbeesa. Abrasions of the river-banks ahow similar growths of aunken timber; while stately live-oaks, flourishing on the bank directly above them, are living witnesses that the soil has not changed its level for ages. Meserra. Dickeson and Brown have traced no less than ten dietinct cypress foreats at different levels below the present surface, in parts of Louisiana where the range between high and low water is much greater than it is at New Orleana. These groups of trees (the live oaks on the banks, and the succesesive cypress beds beneath,) are arranged vertically atove each other, and are seen to great advantage in many places in the vicinity of New Orleans.
Dr. Bennet Dowler $\ddagger$ has made an ingenious calculation of the last emergence of the site of that city, in which these cypress foresta play

[^107]an important part. He divides the history of this event into three eras:-1. The era of colossal grasses, trembling prairies, \&c., as seen in the lagoons, lakes, and sea-coast. 2. The era of the cypress basins. 3. The era of the present live-oak platform. Existing types, from the Balize to the highlands, show that these belta were successively developed from the water in the order we have named: the grass preceding the cypress, and the cypress being succeeded by the liveoak. Supposing an elevation of five inches in a century, (which is about the rate recorded for the accumulation of detrital deposits in the valley of the Nile, daring seventeen centuries, by the nilometer mentioned by Strabo, we shall have 1500 years for the era of aquatic plants until the appearance of the first cypress forest; or, in other words, for the elevation of the grass zone to the condition of a cypress basin.

Cyprese trees of ten feet in diameter are not uncommon in the swamps of Louisiana; and one of that size was found in the lowest bed of the excavation at the gas-works in New Orleans. Taking ten feet to represent the size of one generation of trees, we shall have a period of 5700 years as the age of the oldest trees now growing in the basin. Messrs. Dickeson and Brown, in examining the cypress timber of Lonisiana and Mississippi, found that they measured from 95 to 120 rings of annual growth to an inch : and, according to the lower ratio, a tree of ten feet in diameter will yield 5700 rings of annual growth. Though many generations of such trees may have grown and perished in the present cypress region, Dr. Dowler, to avoid all ground of cavil, has assumed only two consecutive growths, including the one now standing: this gives us, as the age of two generations of cypress trees, 11,400 years.

The maximom age of the oldest tree growing on the live-oak platform is eatimated at 1500 years, and only one generation is counted. These data yield the following table:-
"Goological Chronology of the lant amergence of the present sife of Nete Orkeans.


Each of these aunken forests must have had a period of rest and gradual depression, estimated as equal to 1500 years for the duration of the live-oak era, which, of course, occurred but once in the series. We slaill tben certainly he within bounds, if we assume the period of sucb elevation to have been equivalent to the one above
arrived at; and, inasmuch as there were at least ten such changes, we reach the following result : -


In the excavation at the gas-works, above referred to, barnt wood was found at the depth of sixtcen feet; and, at the same depth, the workmen discovered the skeleton of a man. The cranium lay beneath the roots of a cypress tree belonging to the pourth forest lerel below the surface, and was in good preservation. The other bones crumbled to pieces on being handled. The type of the cranium was, as might have been expected, tbat of the aboriainal Aubrican Race.

If we take, then, the present era at . . . . . 14,400 years,
And add three subterranean groups, each equal to the living (leaving out the fourth, in whieb the skeleton was found), . . . . . . . . 48,200

We have a total of . . . . . . . . . . . 57,600 years
From these data it appears that the homan race existed in the delta of the Missisippi more than 57,000 years ago; and the ten subterranean forests, with the one now growing, establisb that an exuberant flora existed in Louisiana more thata 100,000 years earlier: so that, 150,000 years ago, the Mississippi laved the magnificent cypress forests with its turbid waters. $\dagger$
In a note addreseed to our colleagues, Nott and Gliddon, April 19, 1853, Dr. Dowler says: -
"Since I sent you the 'Tableaux,' several important dibcovaries have been made, illustrative and confirmatory of its fondsmental principles in relation to the antiquity of the homan race in this delta, es proved by works of art underlying, not only the live-oak platiorm, but also the second raige of subterranean cypress stamps, exposed during a recent excaration in a cyprese basid."

The cypress trees of Louisiana, and the antiquity olaimed for them bere, naturally remind us of the longevity of other trees in connexion with the antiquity of the present cra. The baobab of Senegal, as is well known, grows to a stupendous size, and is supposed to exceed all other trees in longevity. The one measured by Adanson was thirty feet in diameter, and estimated to be 5250 years old. Having made an incision to a certain depth, he counted 800 rings of annual growtb, and observed what thickness the tree had gained in tbat period; the average growth of younger trees of the same species was then ascer-

[^108]tained, and the calculation mode according to the mean rate of increase. Baron Humboldt considered a cypress in the gardens of Chapultepec as yet older; it bad already reached a great age in the reign of Montezuma, and is supposed to be now more than 6000 years old. If we could apply the criterion-scale of Dickeson and Brown, some of these trees might prove to be older still. These gentlemen counted 95 to 120 rings of annual growth in the cypresses of Louisiana, and say, moreover, that the ligneous rings in the cypress are remarkably distinct, and easily counted. Now the cypress measured by Humboldt was 401 feet in diameter. A semi-diameter of 243 inches, multiplied by 95 , the smaller number of rings to an inch, would give 24,036 years as the age of one generation of living trees. The harder woods are of very slow growth, and some of the huge mahoganies of Central America must be extremely oid. The courbaril of the Antilles reaches a diameter of twenty feet, and is one of the bardeat timber trees; and the ironwood, from the same data, may be ranked among the patriarchs of the forcst.

Travellers have often heen deterred from attempting to ascertain the age of remarkable trees by the apparent hopelessness of the task. To fell one of these giants of the woods was evidently impossible, nor was it an easy matter even to make such a section as wonld facilitate the calculation. This difficulty is now, bappily, to a great extent removed, and scientific travellers can hereafter obtain measarements of the largest and hardest trees in the places of their growth. Mr. Bowman has devised an instrument something like a surgeon's trephine, which, hy means of a circular saw, cuts out cylinders of wood from opposite sides of the tree, and thus furnishes the moat satiafactory results.*

Having drawn the general reader's attention to a few geological $\dagger$ and hotanical evidences of the incalculable lapse of time required for the exiating condition of things upon our globe, let us endeavor to raise a corner of the voil which ohscures human sight of epochas anterior to ours. Where our alluvial rivers flowed, where our present vegetation flourished, where our mammiferous animals abounded, science cannot assign, a priori, a reason why all our different specics of mankind should not abo have existed coetaneously. Cuvier (says Schmerling most truly,) does not contest the exiatence of man at the epoch in which gigantic species peopled the surface of the earth. $\ddagger$ We content ourselves with lesser quadrupeds:

Fossil Dogs.-The dog has been the constant companion of man in

[^109]all his migrations to distant regions of the earth, and has suffered from the same injuatice which ignorance metes to his lord. The wise Ulysees has been ruthlessly referred to a consanguineous origin with the Papuan and the Hottentot; and the noble animal that died from joy on recognizing his master (when all Ithaca had forgotten the twenty years' wanderer), is left to choose a dcacent from the savage wolf or the abject jackal, and must perforce share its parentage with

> "Mongrel, puppy, whelp, and hound, And cur of low degree."

The monuments of Egypt have also shed new light apon the historical antiquity of both men and doga, ahowing that the different races of each were as distinct 5000 years ago as they are to-day; and we now propose to inquire whether geology does not confer upon doge a still more ancient origin.

Few questions in the history of fossil animale are more difficult to solve than that of dogs; for the differences hetween skeletons of the dog, the wolf, and the fox, are ao trifling as to be almost undistinguishable. Indeed, some perceive no difference between them except in point of size. Consequently, when we meet with a fossil of the dog speciea, we are at a loss whither to refer it; and ao strong are vulgar prejudices against the antiquity of everything immediately associated with man, that it is almost certain to be called a wolf, a fox, a jackal, or anything else, sooner than a common dog.

It does not appear that any canidæ bave yet been found in the oolite, the earliest position of mammal remains; they are rare in the tertiary atrata, and are chiefly met with in the caves of the pliocene, in the drift, and the alluvium.

Owen says that fossil bones and teeth extant in caves, and their association with other remains of extinct apecies of mammalia found in the same state, carry back the existence of the canis lupus in Great Britain to a period anterior to the deposition of the superficial drift. In the famous Kirkdale cave, Dr. Buckland discovered bones of a fossil canis associated with those of tigers, bears, elephants, the rhinoceros, hippopotamus, and other animala which Cuvier pronounced to belong to extinct species. Fossil bones of a species of canis, similarly associated with extinct animals, turned up in the cave of Paviland, in Glamorganshire ; and the Oreston cavern furnished other examples. In all these cascs it was difficult to designate the species of canis the iossils belonged to, and the Dog was never allowed the benefit of the doubt.
Cuvier, Daubenton and De Blainville inform us, tbat the abades of difference in canine skeletons are so slight, that distinctions are often more marked between two individual dogs, or two wolves, than between
the various species. But, in spite of these difficulties, recognizable remains of the true dog, canis familiaris, have been frequently obtained. Dr. Lund discovered fossil dogs larger than those now living, in the cave of Lagoa Santa, in Brazil; associated, as we have elsewhere stated, with an immense varicty of extinct species of animals, and in a position whose geological antiquity cannot be doubted. In this ease the dog was partner with an extinct monkey; and a similar association has heen found in a stratum of marl, surmounted by compact limestone, in the department of Gers, at the foot of the Pyrenees. Here the bones of a true dog were found, in company with the reliquir of not less than thirty mammiferous quadrupeds; including three species of rhinoceros, a large anaplotherium, three species of deer, a huge edentate, antelopes, and a species of monkey about threc feet high. This fact is the more interesting, bccause fossil monkeys are almost as rare as fossil men in the fauna of the tertiary era; and, until recently, their existence was quite as strenuously denicd. In the catalogue of the casts of Indian fossils, recently presented to the Boston Society of Natural History by the East India Company, we find two crania of canine animals from the Sivolik Hills, but have no information as to their species.

Dr. Schmerling has deseribed several fossils of the true dog, which evidently belonged to two distinct varieties, notably differing from cach other in size, as well as from the wolf and fox, whose bones, together with those of bears, hycnas, and other animals, reposed in the sarne locality. Cuvier, spenking of the bones of a fossil nnimal of the genus caniz, found in the cave of Gaylenreuth, says that they resemble the dog more than the wolf, and that they are in the eame condition with those of the hyenas and tigers associated with them: " they have the same color, the same consistence, the same envalop, and they evidently date from the same epoch." Cavier does not positively declare these remains to be those of the dog: he observes the caution which he exhibited, in 1824, when asked whether human bones had yet been discovered and proved to be coeval with those of extinct mammalia - "Pas encore," was his simple reply.

In the quarries of Montmartre, Cuvier found the lower jaw of a species of canis, differing from that of any living species, and which wo have the right to say belbnged to an extinct species of dog. M. Marcel de Serres has described two species of dogs from Lunel Vieil. One he supposed to resemble the pointer, and the other was much amaller. Tbe caves of Lunel Vieil are situated in a marinetertiary limestone. In some dogs, the frontal elcration of the skull exceeds that of the wolf, and this characteristic is useful as a distinctive mark. The skull of a small variety of dog, with this mark well
developed, was obtained from an English bone-cave, and sobmitted to Mr. Clift, who pronounced it to belong to a small hull-dog or large pug.

Our domestic dog has the last tuhercular tooth wider than that of the wolf; which fact, together with slighter structure of the jaw, shows the dog to he less carnivorous. The teeth of the cave-dogs differ only in size from those of the common dog, being larger; and it appears almost certain that many of the fossil dogs were of a greater size than any of the varieties now common among us. This circumstance, together with their general similarity of structure, has doubtless led to their being alnost universally designated as Woxves. We read of wolves being constantly found in a complctely fossilized atate, associated with numerous extinct animals, and even with man himself; and considering the difficulty of distinguishing skeletons of the wolf from those of the dog, we have no douht that many of these fossils belonged to man's natural companion - the dog.

Marcel de Serres observes, in reference to the large size of the fossil dogs which came under his ohservation, that they bear a stronger resemblance to the animal such as we may suppose him to have heen hefnre he came under the influence of man, than most of our-domestic cancs. Their stature is intermediate between the wolf and the pointer, their muzzle is more elongated, and all the parts of the skeleton are proportionally stronger. But there is no ground for assaming a specific unity among these fossil dogs, any more than among the domesticated races. A carcfnl examination of tbe hones found in the caves has shown the existence of different sizes, and probahly of diffcrent species; and iuasmuch as we find, in the same caves, remains of animals which have suffered the greatest influence from man, e.g. the horse and ox, so we may reasonably infer that these dogs themselres have been contemporancous with man; especinlly because no vestiges, either of domestic animals or doga, have cver been found in countries uninhahited by mankind since the earliest human tradition. The srigantic size of fossil dogs appears less formidable to us than it probably did to M. de Serres, since Rawhinson has figured an enormous dog, from the sculptures of Nineveh, as large as the largest of the extinct animals, and Vaux assures us that a similar species is still living in Thibet. [Infra, Chap. XII.] Moreover, the skeleton of an immense dog was recently found in a cave at the Canarice, with remains of the extinct Gunceres, and thence taken to Paris: Here, however the man may have met his death,

> "His faithful dog still bears him company."

Very distinet traces exist, then, of at least four types of dogs, in rossilized atate: the Canary dog, the pointer, the hound, and the bull-
dog, together with a smaller animal, supposed by Schmerling to have been a turaspit. As we know some of these races to be hybrids, the list must be still further enlarged; for there can be no doubt that many other fossil canidæ appertained to different species of dogs. These species enjoy a very respectable antiquity; sufficient, we think, to destroy the claims of the woff or the jackal to their common paternity: especially, when to our list of species is added the fossil dog discovered by Mr. W. Mantell, in the remote region of New Zealnad, associated with the bones of the Dinornis giganteus. We have no doubt that Max himself existed contemporaneonsly with these fossilized animals, and that both enjoyed an associated antiquity upon earth which bas not yet been generally conceded, but cannot much longer be denied. As the hound, baying in our American woods, announces the presence of the hunter, so we may rest assured tbat a palmontological "fidus Acbates" noiselessly implies the proximity of fossil Man himself.

Human Fossil Remains have now heen found so frequently, and in circumstances so unequivocal, that the facts can hardly be denied; except by persons who resolutely refuse to believe anything that can militate against their own preconceived opinions. Cuvier remarked, long since, that notions in vogue ( 30 years ago) upon this subject would require considerable modification; and Morton left among his papers a record of his matured views still more emphatically expressed:-
"There is no good reason for doubting the existence of man in the fossil gtate. We have already aeveral Fell-authenticated exsmples; and we may bourly look for others, even from the npper stratified rocks. Why may we not yet discover them in the tertiary deposita, in the cretaceons beds, or even in the oolites i Contrary to all our preconceived opinjong, the letter atrats heve already afforded the remains of aeveral marsupial animals, which have surprised geologista almost as much as if they had discovered the bopet of man himself."

Human bones, mixed with those of lost mammifers, bave been found in several places,-in England, by Dr. Buckland, in the famous cave of Wokey Hole, at Paviland, and Kirkby. The question, whether an equal antiquity should be assigned to such remains with that of extinct inferior species accompanying them - or, in other words, whether man lived at the same time with rbinoceroses, hippopotami, hycnas, and bears, whose entire species have disappeared from earth, bequeathing but their fossil remains to tell us that they once existedwas one of mighty import; and Dr. Buckland, Oxonian Professor, was loth to admit that these remains, buman and animal, belonged to beings which had been swept from existence by the same catastrophe. Instances of human fossils had often been reported, but they

[^110]were always treated with contemptuous neglect. A fossil skeleton, found in the schist-rock at Quebec, when excavating the fortifications, excited but a moment's incredulous attention; and the well-known Guadaloupe skeletons were pronounced recent, in a manner the most snmmary. Human bones are known to have been found in England, under circumstances which rendered their fossil condition probable; but, owing to prejudice or ignorance, they were cast aside as worthless, or buried with mistaken reverence. In some instances, they were used, with the limestone in which they were imbedded, to mend highwass; and at all times were disposed of without examination, or apparent knowledge of their scientific importance. There is an instance, recorded by Col. Hamilton Smith, which, whether true or not, will serve to show a culpable indifference on this sulject. A completely fossilized human body was discovered at Gibraltar, in 1748. The fnct is related in a manuscript note, inserted in a copy of a dissertation on the Antiquity of the Earth, by the Rev. James Douglas, read at the Royal Society, in 1785 . In substance, it relates that, while the writer himself was at Gibraltar, some miners, employed to hlow up rocks for the purpose of raising batteries about fifty feet above the level of the sea, discovered the appearance of a human body; which they blew up, because the officer to whom they sent notice of the fact did not think it worth the trouble of examining! One human pelvis found near Natchez, by Dr. Dickeson, is an undouhted fossil; yet we are told that ferruginousoxides aet upon an os innominatum differently than upon bones of extinct genera lying in the same stratum, lest natural incidents might give to man, in the valley of the Mississippi, an antiquity altogether incompatible with received ideas: and Sir Charies Lyell accordingly suggests a speedy solution of the difficulty, by saying that a fossilized pelvis may have fallen from an old Indian grave near the summit of the cliff. Attempts have been made to throw douht upon every discovery of human fossils in the same manner; and the greatest ingenuity is exhilited in adapting adequate solutions to the ever-varying dilemmas. In the case of the fossils hrought from Brazil, a human skull was taken out of a sandstone rock, now overgrown with lofty trees. Sir Charles Lyell again had recburse to his favorite Indian burying.ground; although this time it had to be sunk beneath the level of the sea, and hecome again upheaved to its present position. But, supposing all this to he true, what an antiquity must we assign to tbis Indian skull, when we remember the ancient trees above its grave, and reflect upon the fact that hones of numerous fossil quadrupeds, and, among others, of a korse (both found in the alluvinl formation), must he of a more recent origin than the human remains!

Human fossil remains have been most commonly found in caves connected with the diluvium, usually known as ossuaries or bonecaverns. These caves occur, for the most part, in the calcareous strata, as the large caves generally do, and they have been, in all the instances we shall cite, naturally closed antil their recent discovery. The floors are covered with what appears to be a bed of diluvial clay, over which a crust of stalagmite has formed since tbe clay bed was deposited; and it is under this double covering of lime and clay that the bony remains of animals are discovered. As the famous Kirkdale eavern may serve as a general type of caves of this description, we will here give a hrief eketch of it: -

The Kirkdale cave is situated on the older portion of the oolite formation - in the coral-rag and Oxford clay -on the declivity of a valley. It extends, as an irregular narrow passage, 250 feet into the hill, expanding here and there into small chambers, hut hardly enough anywhere to allow of a man's standing upright. The sides and floor were found covered with a deposite of stalagmite, heneath which there was a bed from two to three feet thick of sandy, micaceous loam, the lower part of which, in particular, contained an innumerable quantity of bones, with which the floor was completely strewn. The animals to which they belonged were the hyena, hear, tiger, lion, elephant, rhinoceros, hippopotamus, horse, ox, three species of deer, water-rat, and mouse-appertaining wholly to extinct species. Tbe most plentiful were hyenas, of which several hundreds were found, and the animals must have heen one-half larger than any living species. The bears belonged to the cavernous species, which, according to Cuvier, was of the size of a large horse. The elephnats were Siberian mammoths; and of stags, the largest equalled the moose in size. From all the facts ohserved, Dr. Buckland concluded, that the Kirkdale cave had been for a long series of years a den inlabited by hyenas,* who had dragged into its recesses other animal bodies whose remains are there commingled with their own, at a period antecedent to that submersion which produced the dilavium; hecause the boncs are covered by a hed of this formation. Finnlly raised from the waters, but with no direct communication with the open air, it remained ondisturhed for a long series of ages, during which the clay flooring received a new calcareous covering from the droppings of the roof. Such is a general description of the bonc-caves: but it does not apply to all of those which contained human fossils, as we shall presently see.

Apart from the geological formation they are found in, the only

[^111]method of judging of the age of bones is, by the proportions of animal and mineral matters which they retain. Where animal matter is present, the bone is hard without being brittle, and does not adbere to the tongue; when nothing but earthy matter remains, the bone is both brittle and adhesive. If we wish to be more particular in ou examination, we treat the bone in question with dilnte muriatic acid: the fossil bone, dissolving with effervescence, is reduced to a spongy flocculent mass: whereas the recent bone undergoes a quiet digestion, and after the removal of all the earthy matter, the gelatine still retsins tbe form of the entire bone in a fibrous, flexible, elastic, and translucent state. If both solutions be treated with sulphuric acid, we obtain the same insoluble sulphate of lime from each.

Col. Hamilton Smith mentions several instances, occurting in England, where human bones were found kneaded up in the same osseous breccia, or calcareous paste, with those of extinct animals, whercin the most rigid chemical examination could detect no difference between them. In 1833, the Rev. Mr. M'Enery collected, from the caves of Torquay, human boncs and flint knives amongst a great variety of extinct genera - all from under a crust of stalagmite, reposing upon which was the head of a wolf. Caves have becn opened at Oreston, near Plymouth, in the Plymonth Hoc, and at Yealm Bridge, in all of which human bones were found, mixed with fosail animal remains. Mr. Bellamy subjected a piece of human bone, from the cave at Yealm Bridge, to treatment by muriatic acid, ascertaining that its animal matter had almost entirely disappcared; while the metatursal bone of a hyena, from the same cave, still retained auch an abundance of animal matter that, after separation of the carthy parts, this bone preserved its complete form, was quite translucent, aud had all the appearance of a recent specimen. Pieces of human boue, from a sub-Appenine cavern in Tuscany, (probably not less than twenty-five or thirty centuries old, and which had all the appearance of being completely fossilized and even converted into chalk, when subjected to the searching powers of such muriatic-acid test, revealed their recent origin. And human hones from the Brixham cavera, in England, were in like manner pronounced recent, though it was evident that they had been gnawed by hycnas or other beasts of prey. Not far from the cave whence these were taken, the thoroughly fossilized head of a deer was picked up. This test was alwo fairly tried in the case (to be presently cited) of sundry human fossils found in the Jura. MM. Ballard and de Serres compared then with some bones taken from a Ganlish sarcophagus, supposed to have been buried for 1400 years, hut the fossil bones proved to be much the more ancient.
It may be granted, that Dr. Buckland was justified in concluding
from the instances which came under his observation, that whenever human bones were discovered mixed with those of animals, they must have been introduced at a later period ; but even Cardinal Wiseman admits that there are cases of an entirely different character.*

The cave of Durfort, in the Jura, has been examined nad described by MDM. Firmas aud Marcel de Serres. It is situated in a calcareous mountain, abont 300 feet above the level of the sea, and is entcred by a perpendicular shaft, twenty feet deep. You enter the cavern by a narrow passage from this shaft, and there find human bones in a true fossil state, and completely incorporated in a calcareous matrix. A still more accurate examination, attended with the same results, was made, by. M. de Serres, of certain bones found in tertiary limestone at Pondres, in the department of the Hérault. Here MI. de Cristollea diacovered human bones and pottery, mised with the remains of the rhinoceros, bear, hyena, and many other animals. They were imhedded in mud and fragments of the limestone rock of the neighhorhood; this accumulation, in some places, being thirteen feet thick. These homan fossils were proved, on a careful examination, to have parted with their animal matter as completely as those bones of hyenas which accompauied them; and they furthermore came out triumpbantly from a comparison with the osscous relics of the long-huried Gaul, ns just related.

A fossil human skelcton is preserved in the Museum at Quebec, which was dug out of the solid schist-rock on which the citadei stands; and two more skeletons from Guadaloupe are deposited; one in the British Museum, and the other in the Royal Cabinet at Paris. Tbe skeleton in the Britiah Museum is headless ; but its cranium is supposed to he recovered in the one found in Guadaloupe by M. L'Herminier, and carried by him to Charleston, South Carolina. Dr. Moultrie, who has descrihed this very interesting relic, says that it possessea all the characteriatica which mark the American race in general. $\dagger$ The rock in which these skeletons were found is described as being harder, under the chisel, than the finest statuary marble.
Dr. Schmerling bas examined a large number of localities in France and Liege, particularly the "caverne d'Engihoul;" where bones of man occurred, together with those of animals of extinct species: the human fossila heing found, in all respects, under tho same circumstances of age and position as the animal remains. $\ddagger$ Near these relics, works of art were sometimes disclosed; such as fragments of ancient urus, and vases of clay, teeth of dogs and foxes pierced with holes

[^112]and doubtless worn as amulets. Tiedemann exhumed, in caverns of Belgium, humau bones, mixed with those of beare, clephints, hyenas, horses, wild hoars, and ruminants. These human relics were precisely like those they were associated with, in respect to the changes either had undergone in color, hardness, degree of decomposition, aud other marks of fossilization. In the caves of France and Belgium, we ofter find, in the deepest and most inaccessible places, far remote from any communication with the surface, human bones baried in the clayey deposit, and cemented fast to the sides aud walls. On every side, we may aec crania imbedded in clay, and often accompanied hy the teeth or honcs of hyenas. In hreccias containing the hones of rodents and the teeth of horses and rhinoceroses, we also meet with human fossils.
There are many other cases on record, of human remains being found associated with animal fossils, hoth in England and on the Continent. As well at Kitely as at Brixham, such associations have been noticed; and there can he little douht that human fossils exist in caverns and formations beneath the present level of the sea: e.g. at Plymouth and other places, where remains of elephants have been washed ap by the surf.
In the caverns of Bizé, in France, human bones and ahreds of pottery turned up in the red clay, mixed with remains of extinct animals; and on the Rhine, they have heen found in connection with skulls of gigantic hisons, uri, and other extinct species. The cave of Gailenreuth, in Franconia, is situated in a perpendicular rock, its mouth being upwards of 300 fect ahove the level of the river. Those of Zahnloch and Kuihloch are similarly elevated; and the latter is supposed to have contained the vestiges of at least 2500 cavern-bears; while the cave of Copfingen, in the Suabian Alps, is not leas than 2500 fect ahove the sea. These caves contained collections of human and of animal remains; while their elevation places them above the reach of any partial inundations. Ossuaries in the vale of Kostritz, Upper Saxony, are more interesting, because they have heen more carefully studied. They are situated in the gypsum quarries; and the undulating country ahout them is too elevated to permit of their deposits having bcen influenced, in the least, by thoso inundations which are made to answer for such a multitude of sins. No partial inundation could possihly have disturbed them since the present geological arrangement; nor were there external openings or indications of any kind revealing the existence of an extensive cave within. The soil as the usual ossiferous loam, and the stalagmite rests upon it as in other caverns. Beueath these depositg, human and animal fossila have been discovered, at a depth of twenty feet. These deposits
were first described by Baron von Schlotheim, who concludes his account with tbese remarks:-
a It is evident that the human bones could not have been baried here, nor have fallen into fissures during battles in ancient times. They are few, completely isolated, and dotached. Nor conld they hape been thus mutilated and lodged by any other accidental cause in more modern times, inasmach as they are always found with the other animal remains, noder the same ralstions - oot constituting connected skelewns, bit gsthered in various groups."

Besides those of man at different periods of life, from infancy to mature age, hones of the rhinoceros, of a great feline, of hyena, horse, ox, deer, hare, and rabhit, were found; to which owl, elephant, elk, and reindeer relics have since been added. Specimens of the human fossils are in possession of the Baron, of the Prince of Reuss, Dr. Schotte, and other gentlemen residing near the spot; and Mr. Fairbolme, who visited Saxony expressly to eatisfy himself of the facts by a careful examination of the locality, brought specimens to Eugland, which be presented to the British Museum. It is worthy of heing noted here, that the sbove bones were not all entombed in caverns or fissures, but that some human fossils were dug out of the clay, at a depth of eighteen feet, and eight feet helow the remains of a rhinoceros.* Enough has thus been said upon fossil Man disinterred accidentally in that Old World which, in natural phenomena, is actually younger than the "New."

Crossing from Europe to our own continent, we behold, in the Academy of Sciences at Philadelphia, a fossilized homan fragment, surpassingly curions, if of disputed antiqnity: -
" Dr. Dickeson presented another relic of yet grenter interest: vix., the fossil $O_{8}$ innominalum of the hamen subject, taken from the above-mentioned atratam of blue cley [near Natchez, Miseisaippi], and aboat two feet below the skeletons of the megalonyx and other geners of extinct quadrapeds ; . . . that of a poung man of aixteen jears of age." $\dagger$. . .
"Ten of theee interesting relics [of the fossil horse], conginting of five superior and infeHor molars, Dr. Dickeson relates, were obtained, together with remains of the megalonyr, urne, the os hominio innominaium fosrile, don, in the vicinity of Nstohen, Misasaippi, from a atratum of temacions blne alay, underlying a dilurial deposit" $\ddagger$
Aware of the critical ohjections to this fossil put forward by Lyell, we neither affirm nor deny its antiquity hy mentioning that Morton, and other palmontologists, did not consider these demurrers conclusive: nor is much geological erudition requisite to comprehend that, under the atmospheric conditions in which a horse and a bear could inhale the hreath of life, a human mammifer might equally well have respired it with them.

[^113]How comes it tbat, with the exception of bricf notices by Morton, the subjoined unequivocal instance of American fossil man has been generally overlooked for a quarter of a century? His fossil bones were discovered by Capt. J. D. Elliott, U. S. N., and are now in the Academy of Natural Sciences at Philadelphia: eight fosailized haman relics, besides
" A specimen of the rock of which the mound in composed, and in which the ofreletons are imbedded. It consisis of fragments of shells united by astaincic matter."

Dr. Meige philosophically remarked, twenty-six years ago : -
The present apecimens are particularly intereating, inasmnch as they belong to the American continent, and as adding another link to that chain of teatimony concerning the earty occupation of this soil, of which the remains are 80 few and unsatisfactory, but of which pnother link, a strong enalogue existe in the Island of Guedslonpe, is good meature neglected or disregarded, on sccount of itn lonelineas or want of connection with similer fects."*

Here, then, is one "homo Diluvii negator," to be conpled with Dr. Dowler's sub-cypress Indian, who dwelt on the site of New Orleans 57,600 years ago.

The next most important and valuable contribution to this department of knowledge, in every point of view, bas been made by the distinguished Danish naturalist, Dr. Lund, who has given an interesting account of the calcareous caves of Brazil, so peculiarly rich in animal remains. He discovered buman fossils in eight different localities, all bearing marks of a geological antiquity. In some instances, the human bones were not accompanied by those of animals. In the province of Minas Geraes, buman skcletons, in a fossil state, were found among the remains of forty-four species of extinct animals, among which was a fossil horse. This learned traveller discovered both the homan and the animal reliques under circumstances which lead to the irresistible conclusion that all of thern were once conternporaneous inhabitants of the region in which their several vestiges occur. With respect to the race of these fossil men, Dr. Lund found that tho form of the cranium differed in no respect from the acknowledged American type; proper allowance being made for the artificial depression of the forehead. The peculiarity in the arrangement of the tecth has been noticed elsewhere.

In a cave on the borders of a lake called Lagoa Santa, Dr. Lund again colleeted multifarious human hones, in the same condition with those of numerous extinct species of animals. They belonged to at least thirty different individuals, of every age, from creeping infancy to tottering decrepitude, and of hoth sexes; and were evidently de-

[^114]posited where the bodies lay with the sof parts entire: immense blocks of stone with which Nature had partly covered then, bearing unanswerable testimony to the great revolutions which the cave had undergoue since their introduction into it.

These bones were thoroughly incorporated with a very hard breccia, every onc in the fossil state. A single specimen of an extinct family of apes, callithrix primavus, was found among them; but large numbers of rodenta, carnivora, and tardigrades, were intermixed promiscuously with the human fossils. All their geological relations unite to show, that they were entomhed in their present position at a time long previous to the formation of that lake on whose horders the caveru is situated; thereby leaving no douht of the coexistence, in life, of the whole of the beings thus associated in death. These facts estahlish not only that South America was inhalited hy an ancient people, long hcfore the discovery of the New Continent, or that the population of this part of the world must have preceded all historical notice of their existeace: they demonstrate that ahoriginal man in America antedates the Mississippi alluvia, because his bones are fossilized; and that he can even houst of a geological antiqnity, because numerous species of animals have heen hlotted from creation since American humanity's first appearance. The form of these crania, moreover, proves that the general type of races inhahiting America at that inconceivahly-remote era was the same which prevailed at the period of the Columhian discovery: and this consideration may spare science the trouble of any further speculation on the modus through which the New World hecame peopled hy immigration from the Old; for, after carrying hackwards the existence of a people monumentally into the very night of time, when we find that they have also preserved the same Typs hack to a more remote, even to a geological, period, there can be no necessity for going ahroad to seek their origin.

Thus much information, upon fossil man in America, was common property of the authors of this volume and the writer, until March, 1853: and such, in substance, were the consequent ethnological deductions in which they coincided. However convinced themselves, in regard to the real fossiliferous antiquity of the os innominatum unearthed by Dr. Dickeson from the bluffs near Natchez, they were aware of the conditions ohnoxious to its special acceptance as evidence in court; and would, therefore, have cheerfully resigned, to their fellow-continentals of South America, the honor of exhibitiug the oldcst human remains upon the oldest continent, hat for an unanticipated event, which enahles North America to claim (in human palmontology at least) a republican equality.

Prof. Agasaiz, during March and April, favored Mobile with a

Course of Lectures; the sixth of which (concisely, but admirably, reported in our "Daily Tribune"*) bore directly upon the themes discussed in Types of Mankind. The suhjects of the present work were passed in daily review, while the Professor bojourned amongst us. We need not recapitulate the obvious advantages its readers in consequence derive. Its authors and the writer consider the following abstract to be, in all senses of the word, a memorandum :-
"Respecting the fossil remains of the buman body I possess, from Flarids, Y can only atate, that the identity yith human bones is beyond all question; the parts preserved being the jaust uith perfert leech, and portions of a fool. They were discovered by my friend, Count F. de Poortales, in a bluff upon the shores of Lake Monroe, in Florida. The mass in which they were found is a conglomerste of rotten coral-reef limestone and shellh, mostly ampollaris of the same species now found in the St John river, which draing lake Moaroe. The question of their age is more difficult to answer. To understand it fully, it must be remerrbered that the whole peringala of Floride hes been formed by the aucoessive growth of corl reefs, added concentrically from north to aouth to those firat formed, and the aconmulation between them of decomposed corale and fragments of shella; the oorais pravailing in some parts, as in the evergledes; and in othars, the abolls, as abont St Augratine and Cape Sable. In all these deposits, wo fnd remains of the enimels now living along the consts of Florids, sometimea buried in limestone as hard and compsot ne the rocks of the Jarassic formation. I bave masses of this coral rock, containing parts of the akeleton of a large sea-turtie, which might be miatsken for turlle-limentone of Soleare, from the Upper Jura. Upon this marine-limestone formation and its inequalitian, fraab-water lakes have been collected; inhabited by animels the epecies of which ere now still in existence, as are alsa, along the shores, the marine animals, remsins of which may be found in the coral formetion. To this lecastrine formation helongs the conglomerate containing the hamen bones montioned above; and it is more than I oan do, to establish, with precision, the date of ite deposition. This, howerer, is cortsin, that Upper Florids, as far south as the headwaters of the St John, constituted already a prominent peninands before Lake Okeechobee was formert; and that the whole of the southern extremity of Florids, with the everglades, hen been added to that part of the continent since the basin has bean in exiateace, in which the conglomerate with haman bones bea been acoumalatiog. The question, then, to settle, (in order to deternine the probable age of thla anthropolthic conglomerate, is, the rate of increase of the penimanls of Floride in ite southward progresa: remembering that the nouthernmost extremity of Florida extenda for more than three degrees of latitude sonth of the fresh-water syatem of the northern part of the peninanla. If we assume that rate of growth to be one foot in 4 centary, from s depth of seventy-five feet, and that avery successive reef hes added ten miles of extent to the peningule, (which esoumption is doabling the rate of increase furnished hy the evidence we now have of the additions forming apon the reef and keys soulh of the mainland,) it would require 185,000 years to form the soathern half of the peninsole + Now, asemming further-which would be granting hy far too muchthat the surface of the northern half of the peninsula, already formed, continued for ninetenths of that time a desert wasle, apon which the freeh waters began to accamulate before the fossiliferons conglomerate could be formed, (though we bave no right to asaume that it stood so for any great length of time) there would atitl remain 10,000 yeara, during which, it ahouid be admitted, that the mainland was inhabited by man and the lend

[^115]and fresh-water animals, restigen of which have been buried in the deposits formod by the fresh waters covering parts of ite surface. So much for the probable ago of our conglomerate. . . .
L. Acabstix"

MaN, absolutely fossilized, exists therefore in North America.
We have shown that the alluvion of our river beds and deltas possesses an antiquity, which would permit of the existence of man upon the earth at a much more remote period than has been commonly assigned to him. We have given instances of his exhamation also in the fossil state. The human fossils of Brazil and Florida carry back the aboriginal population of this continent far beyond any necessity of hunting for American man's foreign origin through Asiatic inmigration: and the body of one Indian beneath the cypress forests at New Orleans is certainly more ancient than the lost "tribes of Jspael," to whom the American type has been rather fancifully attributed,

Man's vast antiqnity can now be proved, moreover, by his works as well as by bis fossil remains. Aatbentic relics of human art have been, at last, found in the diluvian drift. This drift, with its beds of rolled stones, the detritus of older rocks, its masses of sand and gravel, and the traces of its passage over mountain and plain in almost every region of the earth, is vulgarly regarded as furnishing irrefragable evidenco of the Noachian deluge; as, indeed, every remarkable geological appearance was supposed to prove the universality of that visitation. The numerous bones of the elephant, the rhinoceros, and other extinct species of quadrupeds, occurring in this deposit, were commonly denominated "antediluvian remains," and assumed to be unquestionable vestiges of the "world before the flood!" Among auch remains, in deposits clearly belonging to the diluvial epoch, traces of human industry are revealed, of án indisputable character. For these revelations from an carlier world we are chiefly indebted to the zeal and liberality of M. Boucher de Perthes, who has given us an extraordinary work on the primitive industry of man.* In 1835, M. Ravin $\dagger$ published n description of a "Pirogue Gauloise," found under the turf at Estrebwuf on the Somme; and in the same year M. Picard described an omament made of the teeth of the wild hoar, and some very ancient axe-sheaths, \&c., disclosed in a similar situation near Picquigny. These researches, interrupted by the death of M. Picard, were subsequently resumed by M. Boucher de Pertbes; who pursued them until 1849, when he published the result of his truly ardnous labors.
M. de Perthes caused numerous excavations to be made in the Celtic

[^116]burial-places, and in dilavian heds, over the departments of the Somme and Seine; hesides examining all suhterranean localities hrought to light hy the works of civil and military engineers, during a period of ten years. He did not succeed in finding fossil human remains in the diluvian deposits, hat he has produced what he considers their equivalent: because, among relics of elephants and mastodons, and even helow these fossils, at a depth where no archæologist had ever suspected traces of man, he discovered weapons, utensils, figures, signs, and symhols, which must have been the work of a surpassinglyancient people.

Besides his researches in the diluvian heds, he opened many mounds and barial-places, Gaulish, Celtic, and of unknown origin, some of them evidently of extreme antiquity : and he describes anccessive beds of bones and ashes, separated from each other by strata of torf and tufa, with no less than five different stages of cincrary urna, belonging to distinct generations, of which the oldest were deposited below the woody or dilavian turf. The coarse structure of these vases, (made by hand and dried in the sun,) and the rude utensils of bone, or roughly-carved stone, by which they were surrounded, together with their position, announce their appertaining, if not to the earliest ages of the world, at least to a far more remote antiquity than bas usually been assigned to such ceramic remains.
"In the various excavations made in the course of these inquiries, we become sequainted with suecessive periods of civilization, whish correepond with the writton bistory of the country. Thas, after passing through the first stratom of the soil, we come to relica of the middle ages; and then meet, in regular order, with tracea of the Roman, the Gallie, the Celtic, and the dilurian epochs. It is alwayt in the neigbborhood of lakes and rivers that we find veatiges of the most numerous and meient jeople. If their banks were not the earliest sesta of baman habitations, they were prohsbly the most constant, and when once settled were seldom afterwards deberted. This was owing to water, the first necesanry of life, and aurest pledge of fertility; and to the sbondence of fiah and game, so indispensable to a hunting people. We may edd, that all ancient people had a superatitiona reverence for great waters, sud made them the favorite resorts of thair gods. On the benks of their rivers they deposited the ashee of chiefs and relatives, and there they desired to be buried theraselves. The posseasion of these banks was, therefore, an object of general ambibinh and beeame the continual rubject of war and conquest. This expinins the cocomulation of relics which sometimes covers thom, and which, on the benkf of the Somme and the Beine, conducte us from the middle ages, through the Bomen and the Gaoligh goile, beck to the Celtic period." ${ }^{*}$

We have nothing to do now with the comparatively-modern history of the Gauls; the excellent works of MM. de Caumont and Thierry may be consulted on that subject : our business is with the Celtic soil, the cradle of the people, the earth trodden by the primordial popalation of Ganl.


#### Abstract

"Here we natumully inquire, who were these myaterious Celta, thase prioutive inhabitants of Cenl ? We are told that this part of Earope is of modern origin, or at lenst of recent population. Its annals scarcely reach to twenty centories, and even its tradicioss do not exceed 2500 years. The various people who have occupied it, the Galls, the Celts, the Be!gians, the Veneti, Ligurians, Iberians, Cymbrians, and Soythians, have left no vestige to whioh we can assign that date. The traces of those nomadic tribes who ravaged Gaul scarcely precede the Chriatian era by a few centaries. Was Gaul then a debert before this period! Was its aun less genial, or its soil less fertile \% Were not its hills as pleasant, and its plains and valleys as ready for the barvest ( Or, if men had not yet learaed to plough and sow, were not its rivers filled with fish, and its forests with game? And, if the land abounded with everything calculated to attrect and aupport s population, why should it not have been inhabited! The absenoe of grest rains would irdicate that Gaul, at thig period, and even mach later, had not attained a bigh degree of civilization, nor been the seat of powerful kingdows; but why ahould it not have had ita towns and villagea? or, rather, why should it not, like the steppes of Russia, the prairies and virgin foreats of Amerios, and the fortile plains of Africs, have been overren from time immemorid by tribes of men, saragos perhaps, bat, nevertheless, nuited in families if not in nationa?"


Those circles of upright stones, of which Stonehenge is the most familiar example, are admitted to he of great antiquity, but no one can tell how far back that antiquity may extend. They are found throughout Europe, from Norway to the Mediterranean; and they must have been erected by a numerous people, (being faithful exponents of a general sentiments) since we find them in so many countries. They are commonly called Celtic or Druidical, but it would be hard to say on what authority; or, in what circumstances and for what parpose those mysterious Druids erected them. Having neither date nor inscription, they must he older than written language; for people who can write never leave their own names and exploits uncelebrated. The ancients wero as ignorant on this suhject as ourselves; and, at the period of the Roman invasion, the origin of those monuments was already shrouded in obscusity. Neither Roman historians nor Christian chroniclers have been ahle to throw any light upon their unknown founders. Even tradition is silent. Political or religions monuments, they were probahly the first temples, the first altars, or the first trophies vowed to the gods, to victory, and to the memory of warriors; for among all people the ravages of war were deified before the benefits of peace: man bas always venerated the slayer of man. The people who erected them are entirely forgotten; and they mast have been separated from the living generations by an extreme antiquity, as well as hy some great and overwhelming social revolution, prohably involving the entiro destruction of their nation. Being unable, then, to attrihute these monuments either to the Romans or the Gauls, sciolists have ignorantly termed them Celtic or Druidic; not because they were raised originally hy Druids, hut hecause they had been used in the Druidical worship, though erected for other uses, or dedicated to other divinities. In like
manner did the temples of Paganism afterwards serve for the solemnities of Christianity.

We have cited the example of these Celtic temples as a standard of comparison; for, if their antiquity is so extreme as to be entirely lost out of our sight, what date shall we assign to human works found at a considerable distance below their foundations? In the same soil upon which these druidical monuments stand, but many feet beneath their base, numbers of those stone wedges, commonly called Celtic axes, have been discovered ; and these, with other similar instruments, only varying in the finish of their workmanship, according to the depth at which they are found, have been collected at different levels, even as low down as the diluvian drift.

The annexed cut represents a section of an alluvial formation at
Fig. 208.
Alluvial Depositgs at Portelette, showing the Atrangement of the Soil and the Sepultura.

$\oiiint$ Indicates the level of the actual waters of the Somme, whose depth is three metres.
I. Alluvial formation.
II. Vegetable soil - covering transported earth or rubble.
III. Calcareous tufa - porous, and containing compact masses.
IV. Muddy sand - blue, and very fine.
V. Turf - containing Celtic antiquities; indicated by $=$.
VI. Muddy sand.
VII. Detrital diluvium - rolled silex, sto.
VIII. White chalk.

Portelette, on the Somme, where some beautiful specimens of Celtic axes were obtained. At a depth of nine feet, a large quantity of bones was found; and one foot lower, a piece of deer's horn, bearing marks of human workmanship. At twenty feet from the surface, and five feet below the bed of the river, three axes, highly finished, and perfectly preserved, turned up in a bed of turf. Some axe-cases of stag's horn were also discovered in the same bed. Near these objects was a coarse vase of black pottery, very much broken, and surrounded with a black mass of decomposed pottery - there were also large quantities of wrought bones, human and animal. The entire bones were those of the boar, urus, bull, dog, and horse; but none of man. In another locality, in the neighborhood of Portelette, the skall of a man was found. Here was evidently a Celtic sepulchre. The axes were entirely new, bearing no marks of use, and were doubtless votive offerings. This case is only cited to show that the same kind of utensils extend from the comparatively recent Celtic back to far remoter diluvian and antediluvian epochas. We annex sketches of the deer's-horn axe-cases (Figs. 204 and 205), because in the more


Coltic buck-horn "Axe-Cases." a
ancient excavations none were discovered. Fig. 204 is an axe-case made of the horn of a "stag of ten," and is six inches in length, two inches

[^117]wide at one end, and a little more than one inch wide at the other. Around the opening intended to receive the stone, a line has been drawn by way of ornament. The axe is of grayish ailex, polished along its whole length, and is three inches long, and one inch and a half wide. At the upper end of the case, broken remaine of a large wild boar's tusk were firmly driven into the horn; while the axe itself was very loose, and seems always to have been so-the looseness being increased by its amooth polish. It was evidently intended to be thrown, or detached from the case, whenever a blow was struck with it. The handle of this axe was twenty inches long, made of oak, and in a tolerable state of preservation; but became reduced onehalf in drying, by crumbling and splitting off in flakes. Carelesely worked, it had been hardened at both ends in the fire. This was the only wooden handle found - some being of hone, and many others ontirely decomposed.

Fig. 205 was an axe-case and axe similar in most respects to Fig. 204, except its handle of horn.

A great variety of other instruments, made of deer's horn, occurred in this and other alluvial excavations; but as our main concern is with those of higher antiquity, we must pass them by withont notice, and proceed to the diluvian vestiges.
In tbe gravel-pits of ${ }^{\text {Wenchecourt, }}$ on the Somme, M. de Perthes found a number of stone axes and other works, associated with the remains of extinct animals. The character of this formation is marked by erratic blocke and the organic remains wbich it contains: the erratic blocks being here represented by houlders of asandatone, and by massive flints, which have been visibly rolled and rounded, despite of their weight. Its organic remains are chiefly those of the elephant, the rhinoceros, hippopotamus, bear, hyena, stag, ox, uras, and other mammelia, of races either extinct or foreign to the present climate, belonging to the diluvian epoch. In the post-dilavian or alluvial formations already spoken of, only living or indigenous species are met with; and the human bones are mixed with scoris, worked metals, pieces of pottery, and other vestiges of the civilization of the period to which these buried men belonged. The alluvia, whatever be the materials whicb compose them, are easily recognized through tbe horizontal position of tbeir beds. Such regular stratifications do not exist in the Diluvial formations. Here different sands, gravels, marls, broken and rolled flints, everywherc scattered in disturbed beds, and repeated at irregular distances, announce the movement of a great mass of water and the devastatiog action of a furious current. Indeed it is scarcely possible to be deceived in the diluvial cnaracter of these formations, or to confound them with a posterior
deposit. Everything announces the diluvial origin of these beds at Menchecourt: the total absence of modern relics and of any remains of recent animals; the large lumps of silex; the scattered boulders; the pure sands (yellow, green, and black), sometimes in distinct layers, at other times mixed with the silex whose couches, descending to a great depth, rise again immediately to the surface of the soil. Such is the character of these formations; wherein we meet at every step the traces of an immense catastrophe, especially in valleys where the diturian waters had precipitated the ruins accumalated in their course.*
M. Baillon, speaking of this locality, says:-
"We begin to find bones at the depth of ton or twelve feel, in the gravel of Menahecourt; but they are more pleatifal at eightean or twenty feet deep. Among then are bonee which wore braised and broken before they were eatombed, and others whase angles here been rounded by friction in water; bat neither of theee are found as deop as those which romain entire. These lest are deposited at the bottom of the grevel bed; they are whole, being geither rounded nor broken, and were probsbly articulated at the time of their deposition. I fond the whole hind $\log$ of a rhinoceros, the bonen of which were otill in their proper relative position. They must have been conneeted by ligemente, and aven covered with muscles, at the time of their destruction. The reat of the skeleton of the seme animal lay at a small distance. I have remarked that whenevar wo meet with bonea disposed in this manner - that is to say, articulated - wo also find that the sand has formed a hard agglomeration ageinat one side of them."

Subjoined is a list of the mammifers discovered by M. Baillon in the sands of Menchecourt: namely, elephant, rhinoceros, fossil horse (of medium size and more slender form than the living species), felis spelea, canis speleus, hyena, bear, stag, and bos bomhifrons of Harlan. A scale from the neck of a great crocodile was also exhumed from gravel of Menchecourt, being only the third instance in which traces of that saurian had been found, thus associated, in Earope: once at Brentford in England, once in tbe diluvial heds of the Val d'Arno, and once at Menchecourt. $\dagger$

We have said that, among these diluvian remains, (amid bones of elephants, rhinoceroses, and crocodiles, under many beds of sand and gravel, and at a depth of several feet below the modern soil,) veatiges of human industry had been met with; and we now give a section of the locality (Fig. 106) from which flint axes, agglutinated with a mass of bones and sand, were procured. These axes were taken from the oseiferous beds; one at four and a half metres, or nearly thirteen feet, and the other at nine metres, or ahout twenty-seven feet, below the surface. The character of the soil and of the superposed layers of compact sand, free from any appearance of modern detritus, forhids a supposition that they could ever have reached such a depth through accident since the formation of the bed itself, or hy any infiltration from

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## 

Pia. 208.


| Modern, or Aluroial. | I. Soperdinal vegetable oarth - hampa <br> II. Lower vegetable - argilleceous, |
| :---: | :---: |
|  | III. Brawn cisy. |
| Diluvian, or | IV. Upper bed of ailax - rolled and broken, with l |
| Clymimen of | te marl and rolled chalk, in |
| Bromgniza, | fragments. |
|  | V. Compect ferraginous |

a saperior level: because, in such cases, some trace must have been left of their occurrence. No donbt exists that those axes had lain in the same position ever since the foseilized bones were there, or that they were brought thither by the same causes.

Many other excavations.were examined, as opportunities occurred; snd stones bearing unmistakeable evidence of human workmanship were discovered so frequently in the drift, as to eetablish the fact beyond sll room for question. The occurrence of similar axes in sepulchres of the Celtic era, might otherwise sapport the idea that they had found their way by subsidence from apper to lower levels; but the character of the formation, as before remarked, renders such contingencies highly improbable, if not impossible; and it seems much more likely that old diluvian remains were diacovered by a more modern people, who adopted these ancient tools in later funebral ceremonies. But it is not necessary to assume either hypothesis: the same wants would suggest similar utensils. Forme, venerated as symbolical of any religious rite or sentiment, are very permanent, especially among a rude people: and, whether we suppose the more ancient race to have been entirely destroyed, and aucceeded by another after a catastrophe, or the same type to have continued through that long period which mast have elapsed between the diluvian and the Celtic epochas, the circnmstance that the same instruments are found in both positions is not attended with any insuperable difficulties. Indeed, Indian axes, discovered by Mr. Squier in our Weetern mounds, are so precisely similar in form and material to those we have been describing, that one should not be much surprised at seaing them adduced, by some sapient advocate of the unity of human races, as decisive proofs of the Celtic origin of American Indians.

The annexed cuts (Figs. 207 and 208) represent different sections

| Clymien | $\left\{\begin{array}{c} \text { Limana-de } \\ \text { tridiqua. } \end{array}\right.$ | VI. Marly clay, with broken filnts, white extortally. VII. Marly and, containlog bones of memmifers. |
| :---: | :---: | :---: |
|  |  | VIII Beds of rolled chalk, in pinform fragtente, mixed with riliceous grovel. <br> IX. White clag. |
| Limonetry of Brongniarl. | Claycy and | X. White sand. |
|  | sandy. | XI. Oriy eady olay. |
|  |  | XIL Clay and sand, oobry, in veins. |
|  |  | XIIL. Pure gray olay. |
| Chymian detritic. | andy. | XV. Alternato beds, alighty obliqas, with abeles and dilavien bones. |
|  | ty. | XVI. Lower bed of finte, rolled and broken. |

of a bank at Abbeville;* after excavations made by military engineers, while repairing the fortifications of the place. Here, in a bed of gravel some eight feet below the surface, fossil bones of an elephant were found; and, immediately below them, a flint knife; while at a still lower level, stone axes were discovered.
The existence of human works in Gallic diluvian drift, appears to be proven. Similar works have also been found in the alluvium of the same localities: and, inssmuch as the best geologists say that each of these formations may have occupied myriads of years, it will be interesting to trace connexions between the two periods. This we shall now attempt by an examination of some rude mementos of those ancient times entombed in mother earth. In later Celtic sepulchres, (besides stone axes, of regular shape and high polish,) numerous utensils wrought from deers' horns were discovered, of which we have given specimens when treating of axes.

- 1sx. Section or Diluvian Beds at the Ramparts or Abbeviliz.

Fig. 207.

I. Recent. - Thickness 6 feet.
a. Vegetable mould.
b. Rubble.
II. Diluvian formation (clysmien Br.).
A. First bed $-1 \frac{1}{2}$.

1. Yellow sand-argillo-ferruginous.
2. Silex, rolled and broken, mixed with gravel.
3. Green sand.
B. Sezond bed-détritique $\mathrm{Br} .-9 \cdot 00$.
4. Masses of silex, rolled and broken, mixed with gravel and ferruginous
sand. Below this mass the silex tends to form oblique beds.
5. The same silex, forming a large band in green sand.
38 8. The same silex, forming sinuous veins in black sand, colored by carbon from the decomposition of lignite.
6. Vein of white sand, containing a layer of silex and bands of clay.
7. Veins of green sand- 16 .

三. Celtic instruments found in the diluvian mass.

An instance of the early use of deers' horn, (mentioned by Dr. Wilson in his Memoir on the pre-Celtic races of Scotland, read before the British Association for 1850,) may be here cited. Remains of a fossil whale have recently been exhumed in Blair Drummond Moss, seven miles above Stirling bridge, and twenty miles from the nearest point of the river Forth where by any possibility a whale could be naturally stranded. Nevertheless, a rude harpoon of deers' horn', found along with the cetaceous mammal, proves that this fossilized whale pertains to, and falls within, human historical periods; at the same time that it points to an era subsequent to man's first colonization of the British Isles.

Sketches of other instruments, made of the same material, equally illustrate the rude state of Celtic arts. Fig. 209, made of an antler and part of the horn attached to the head, was used as

2nd. Transverse Section - Abbeville ramparts.
I. Recent.
a. Vegetable earth.
b. Transported earth.
II. Diluvian formation (clysmien Br .).
A. First bed.
11. Mixture of rolled silex and clay.
2. Lumps and oblique veins of white sand, mixed with gravel and silex.
8. Bed of ferruginous diluvian grit. Sand agglutinated by a cement of hydrated iron.
B. Second bed. (Détritique Brong.)

1. Masses of rolled silex, mixed with gravel.
2. Sinuous band of silex (rolled) in black sand.
3. Mass of silex and gravel, in brown ferruginous sand.
E Celtic instruments contained in the mass of silex, covered with ferruginous sand; one set $8 \frac{1}{2}$ metres below the surface, the other at 5 metres 60 centimetres.
[^119]Fig. 209.


Celtic hammer, of buck-horn.*

Fig. 210.

a hammer; and Fig. 210 is eridently intended for a pickaxeMany other specimens, equally rude in design and execution, were found in these alluvial deposits; but, notwithstanding the most careful search, no traces of worked bones have been ever discovered in the diluvial beds; except in two doubtful instances, where fragments of fossil deers' horn appeared to show some traces of workmanship.

Among the weapons used by ancient people, axes have always been, if not the most common, at least the best known. We have spoken of those found in the Celtic sepulchres, and will now give sketches of a few of them. Figs. 211, 212 and 213 are Celtic axes. The first is composed of silex, the second of jade, and the third of porphyry: they are all of elegant form and perfect polish. This is the prevailing form; though the instruments vary in size from eight inches down to two inches and a half in length, with a proportionate width.

Fra. 211.


Fig. 212.


Fig. 218.
 An elegant little jasper axe (Fig. 214) is of the smaller size.

Serpentine is another common material, from its beautiful appearance and facility of workmanship: chalk and even bitumen are also frequently found moulded into the typical form. The subjoined (Figs. $215,216,217$ ) appear to have been intended for amulets. Fig. 215 is of grit, two inches long, containing a rude representation of a human face, and pierced so as to be worn as an amulet. Fig. 216 is

[^120]$\dagger$ Idem, Plate XIII.
of black basalt; and Fig. 217 , which is more of the typical shape, is made of white marble, ornamented with small has-reliefs, and pierced with holes for suspension as an amulet, or
 to facilitate fastening in a case. Several other specimens of different aizes, material, and finish, bot all of the same general form, were found in the Celtic sepulehres, whieh it is unnecessary to our purpose to enumerate or describe.

Besides the axes, numbers of flints, wrought in the form of knives, were found in the Celtic depositories, and instruments of both kinds were also discovered in the dilavian deposites; the only difference between the Celtic and diluvian remains lying in the finenese of the workmanship, as the form and material were in both cases the same. Figa. 218, 219, and 220, represent axes from the diluvian deposites; and here it may be as well to remark, once for all, that the word axe is merely a conventional term, applied generally to all stones of a pecaliar typical shape, and is not intended to convey the idea that those instruments were always used as weapons or as mechanical tools, as we shall take occasion to explain.
Figa. 221, 222, and 223, are sketches of Celtic knives; and Figs. 224,225 , and 226 , are corresponding instruments of the diluvian epoch.


[^121]

Besides the axes and knives, there were atill other apecimens of wrought silex and sandstone, which appear to have been used as symhols or signs connected with the rites of religion. Some of thees were probably the original forms or models of the Celtic stones, so widely known; viz., cromleche, dolmenz, lichavens, \&c. They certainly have the same shapes, and it is not easy to assign any other use or origin to them. Generally pyramidal or cubic in form, they are foand, with little variation, from the oldest diluvian to the Celtic period,

Fia. 227.


Fia. 220.


Fio. 228.


Fia. 290.


Draidical Monuments. $\dagger$
and even down to near the Roman times. They are represented in Figa. 227, 228, 229, and 230.

We should remember that many of the instruments we call axes were prohably used only in sacrifices, and some, perhaps, merely as votive offerings or amulets; being too small, and made of materials too fragile, to have been of any use either as weapons or as tools. Moreover, they were fitted so slightly to their cases, that they must have become detached whenever a hlow was struck, and would thus have been left in the wound, or, in case of sacrifice, would have dropped into the hole of the dolmen made to receive the hlood of the victim. This soperstition atill exists among some savage tribes, who, in their human sacrifices, always leave the knife in the wound; and may perhaps be traced in the practice of Italian bravos, with whom it is a point of professional honor to leave the stiletto sticking in the body of the murdered man.
"The triangular axe wat probably a form consecrated by custom among those rude tribes, like the creseent among the Turks. Being never employed as an instrument of death, except in sacrifices; whon the sscritice was connummated, on funereal occesions, it woold be deposited near the urn containing the ashes of the chief they wished to honor, or under the altar of the god they would propitiate. At any rate, the permanence of so rude a atste of art during so many ages, or perhaps so many bandreds of ages-from a period of unknown antiquity, separsted from bistorio times by one of the great revolutions of the earth - and disappearing, not gradaslly, but suddenly; and elther by desth or conquest; to be aucceeded by remains of the Roman ern-indicstes the existence of s people in a state of berbarism from which they would probsbly never have emerged. Inhabiting a country fall of lares and foresta, they may have resembled the Indians of North Amerios; or, to beleot a more nncient ersmple, we may compare them to the nomadio tribes of Asis and Afriea ; the Tartars, Moagols, and Bodonins. The daration of their atationary state defea all speculstion; since the moat ancient traditions, eapecially of the pestoral Arsbs, reprebept them procisely as we see them to-dsy, and there is no aengible difference between the tent of Jacob and thet of a modern Shèjkh."*

The supposition that these pre-Celtic populations of Europe may have resembled our North American Indians is exceedingly just, so long as similitudes are restricted merely to social habite, superinduced on both eontinents by the same natural causes; but that the aborigines of Europe were not, in any case, identical physiologically with the trans-Alleghanian mound-builders, has been already exemplified [supra, p. 291]. This leads us to the "Pre-Celtic Annals of Scotland" - one of those sterling works, replete with solid instruction, that reflects infinite honor on the "native heatb," which Dr. Danibl Wilson has recently exchanged for a Canadian home. Whilst heartily welcoming such an accession of science to our continent, we lack space to do more than present the learned archæologist's reaults in the concisest form. Caledonia, in ages anterior to any Celtic traditions, appears to have been successively occupied hy two types of man (heretofore unknown to historians), distinct from each other 20

[^122]less than from their Celtic destroyers; and this long prior to the Roman invasion of Britain. The most ancient of these extinct racea, viz., the "Kumbe-kephali" (or, men with boat-shaped skulls), flourighed during the earlier part of the "Primeval or Stone period;" and their successors, the "Brachy-kephali" (or, short heads) lived towards the latter part. Both became more or lese displaced by intrusive Celts, during the suhsequent "Archaic or Bronzs period;" while these last gradually gave way before the precursors of Saxons, Angli, Scoti, Norwegianes, \&c., who usber in the "Tentonic or Iron period." Place the Roman invasion of Scotland in the year $80 \mathrm{~A} . \mathrm{d}$., and at what primordial era did Caledonia's aborigines begin? - With this exordium, let Caledonian archæology speak for itself: -
"Of the Allopylian colonists of Scendinovis, Professor Nillson tessigas to the moat ancient the ahort or braohy-kephalio form of cranium, with prominent parietal tabers, and broad and fiattened occipul. To this aboriginal race, he conceives, sucoeeds another fith a eraninm of a more lengthened oval form, and prominant and narrow oocipat. The third race, which Scandinavian antiquaries incline to regard as that of the bronte or firat metallio period, in characterized by oracium longer then the first and brander than the meeand, and marked by greater prominence at the sides. The last, Profossor Nilibon considers to have been of Celtio arigin. To this ancceeded the trae Soandinavion rece, and the firat workere of the ustive iran ors. . . .

Fia. 281.


Pra, 282


"Fortuasialy s fer akulls from Ecotiah to muli and cists are preserted in the Musoums of the Scotinh Antiquaries and of the Edinbargh Phrenolagical Acciety. 4 comparison of these with the specimens of cranla drewn by Dr. Thuram from examples fond in en sacient trmaler ofmetory at Lamel Hill, bat York, belleved to be of the Anglo-Sexpm period, abuadantly proves an essential dififarence of races. $\dagger$ The latter, though belonging to the superior or dolicho-kephalic type, are amall, very parly developed, low and nartow in the forehead, and pyramidal in form $A$ striking feature of one type of cranis from the Ecotidith bsrrows is a square compuct form. . .
"No. 7 [Figs 281 and 232] Was obtained from a olat disoovared under a large caira at Nother Urqubart, Fifeabire, in 1885 . An mecount of the opening of several cairns and tomali in the same district is given by Lien-tenant-Colonel Miller, in his 'Inquiry respecting the Site of the Battle of Mons Grampins.'t Some of them oonthined urns and burnt booes, ornamante of jet and shale, and the like early rolice, while in others were found implementa or weapons of iron. It is selected bero as

[^123]$\dagger$ Fataral History of Man, p. 188.
$\ddagger$ Arohrool. rol. ir. pp. 48, 44.
asother example of the same olces of crania . . . The whole of these, more or lesa, nearly agree with the lengthened oval form described hy Profesar Nillson as the second race of the Scandinavisn tumali. They have mostiy a singularly narrow and elongated occipat: and with their comparatively low and narrow forehead, might not inaptly be deseribed by the familiar term boat-ahaped. It is probable that forther inve日tigation will estsblish this an the type of a primitive, if not of the primeval native race. Though they spprosch in form to a superior type, falling under the firat or Dolicho-kephalic clase of Professor Retnius's erraogement, their capacity is gederally small, and their derelopment, for the most part, poor; so that there is nothing in their cranial chartcteristice inconsitcent with auch ovidence as seems to essign to them the rade arts and extremely limited knowledge of the Britinh Slone Period. . .

Fio. 288.

"No. 10. Old Steopid, Mortrons"
"The skull, of wheh the menguremente are given in No. 10 [Figs. 288 and 284], is the eame here referred to, preenented to the Phrenological Museam by the Rev. Mr. Liddell. It is a very striking example of the British Brachy-kephalic typa; squars and compeot in form, broad and ahort, bat well balaroed, and with a good frontal dovelopment. It no doubt pertained to some primitive chiof, or archpriast, ange, it may be, in conncil, and brswe in war. The aite of hil place of aepultare hes ohriously bean shoten for the seme reasons Which led to ite eolection at a leter period for the erection of the belfry and beacon-tower of the old borgh. It is the nost elerated epot in the neighborhood, and here his ciat had been laid, and the memorial mound piled over it, which doubtless remajned untouched so long as his memory was cherished in the traditions of his paople. . . .
"Few as these examples are, they will probably be found, on farther investigation, to belong to a race entirely distinct from those provicusly described. They correspond very nearly to the Brachy-kephalic crania of the supposed primesal race of Bandinaria, doactibed by Profesaor Nilloon as short, with prominent parietal tubers, and broad and Gattened occiput. In frontal development, however, they ere decidedly euperior to the previous clast of crania, and euch evidence an we possess seems to point to a rery different auccession of races to that which Scandinavian ethnologiats now recognise in the primitive history of the north of Eorope. . . . .
"So far as appears from the table of mensurementis, the following laws would seem to be indicated:- In the primitive or elongsted dolicho-kephalio type, for which the distinctive tille of rombe-kephalic is here suggested - the parietal dismeter is remarkably small, being frequently exceeded by the vertioal diametor; in the seeond or brachy-kephalic class, the parietal diameter is the greater of the two; in the Celtio crania they are nearly equal; and in the medieval or true dolicho-kephalic beade, the parietal diameter is again found decidedly in excess; while the preponderance or deficiency of the longitudinal in its reletive proportion to the other dismeters, furnishes the most characterlstio features referred to in the clasaification of the kumbe-kephalio, hrachy-tophalic, Celtic, and dolioho-kephalio types. Not the least interesting indicstions which these resulte afford, hoth to the ethno-
logist and the arehmologist, are the evidences of nadure primitive races in Ecotand prior to the intrusion of the Celtee; and also the probsbility of these races haring succeeded each other in a different order from the primitive colonists of Beandinavia of the former fact, viz., the existence of primitipe races prior to the Celtex, I think no doubt ean be now entertained. Of the order of their soocession, and their exact abare in the changee and progreasipe development of the native arts which the archmologist detects, we still atand is need of further proof. . . .
"The peculiar characteristic of the primeval Bcoltish type appears rather to be a narrow prolongation of the occiput in the region of the cerebellum, auggesting the term already applied to them of boat-ahaped, and for which the name of Kumbetephate may perbape be conveniently employed to distinguigh them from the bigher type with whioh they are otherwise apt to be confounded. . .
"The peculiasity in the teeth of certain classes of encient cranis abeve referred to is of very general application, and has been observed as common aven among British sailors. The cause is obrions, resulting from the similarity of food in beth canes. The old Briton of the Anglo-Roman pariod, and the Bazon both of England and the Soottiah Lothiang, hed lived to a great extont on barley bread, oaten cakes, parched peas, or the like fare, prodncing the same results on bis teeth as the hard ses-hiscuit does on those of the Britinh asilor. Buch, however, is not generally the case, and in no instance, indeed, to the same extent in the skalls found in the earlier Britiah tumuli. In the Scottish examples described above, the teeth are moatly very perfect, and their crowns not at all worn down. . . .
"The inferences to be dra wrom such a comparison are of considersble value in the indications they afrord of the domestic hahits and social life of a race, the last surrivor of Which bes mooldered naderaeath his green tumulus, perchance for centuries before the ers of our earliest anthentie chronicles. As a menns of comparison this characteristic appearance of the teeth manifeatly furnishes one means of discriminatiog between an early and as atill earlier, if not primeval period, and though not in itself conclusive, it may be found of considerable ralie when taken in connexion with the other and still more obvious pecnliarities of the cranis of the earliest barrows. We perceive from it, at least, that a very deeidrd chenge took place in the common food of the country, from the period when the native Briton of the primeval period pursued the chase with the fint lance sod arrow, and the spear of deer's hora, to that comparatively recent period when the Baxon marauders began to effect settlements and build hoases on the scenes where they bad ravaged the villages of the older Britisb natives. The flrst class, we may infer, attempted little cultivation of the eoil. . . .
"Viening Archmology as one of the most ensential means for the elacidation of primitive history, it has been employed here chiefly in an attempt to trace out the anmals of our country prior to that comparatively recent medieval period at which the boldest of our historians have heretofore ventured to begin. The researches of the ethnologist carry us back somethat beyond that epoch, and confirm many of those conclusions, eapecially in relation to the cloge affaity between the native arta and Celtic races of Scotand and Ireland, at which we have arrived by maang of archeological evidence. . . . But.we have found from many independent sources of evidence, that the primeval history of Britain must be sought for in the annals of older races that the Celtre, and in the remains of a people of whom we have as yet no reason to believe that any philological traces are discoverable, though they probably do exist mingled with Iater dialecta, and especially in the topographical nomenclatare, adopted and modified, bat in all likelihood not entirely saperseded by later colonista. With the earliest intelligible indicea of that primeral colonization of the British Isles our arcbeological record, begin, mingling their dim historio annuls with the last giant traces of elder worlds; and, as an essentially independent element of historical research, they terminate at the point where the isolation of Scotlend ceases by its being emhraced into the unity of medieval Christendom." *

* Wilson: Areheol. and Prebist. Annals of Scotland; Edinb. 1851; pp. 163-187, 695-6.

Neither in Scotia nor in Scandinavia, then, any more than in Gallia, are lacking mute, but incontrovertible testimonies to the aboriginal diversity of mankind, as well as to human antiquity incalculably beyond all written chronicles. Ere long, "Crania Britannica, or Delineations of the Skulls of the Aboriginal Inhabitants of the British Islands, and of the Races immediately succeeding thern," will vouch for existing evidences of the same unanswerable facts in England. The forthcoming work of Doctors Davis and Thurnam promises -


#### Abstract

" Not merely to reprodace the most lively and forcible traits of the primeval Celtic bunter or warrior, and his Roman conqueror, succeeded by Saron or Angle chieftnins snd settlers, and later still by the Vikings of Acandinaris; but also to indicate the peculiarities which marked the different tribes and races who bave peopled the diversified regions of the Britah Islanda."


We conclude this imperfect sketeh with renarks, truthful as they are eloquent, of M. Boucher de Perthes, on the subject of these preCeltic resuscitations:-
" My discoveries may eppear trifling to some, for they comprise tittle anve crumbling bonea and rudely scuiptored stones. Here are naither medala nor inscriptions, neither basreliefn nor statues - no rases, elegant in form, and precious in material - nothing but bonea and radely polished flints. But to the observer who valuea the demonatration of a truth more than the possession of a jewel, it is not in the finish of a work, nor in its marketprice, that its velue consists. The specimen he considers most beantiful is that which afforda the grealeat help in proving a fact or realizigg e prevision; and the flint which a collector would throw aside with contempt, or the bone which has not even the value of a bone, readered precious by the labor it has cost him, is preferred to a Morrhine vase or to its weight in gold.
"The arth, even the most simple, those which seem born with nature, have, like uature berself, had their infancy and their vicissitudes; and indastry, properly so called - that is, the indispensable arts - bas alreys preceded the onnemental. It is the same with men as with animain; and the farst nightingale, before he thought of ainging or of eporting, sought a branch for his rest and e worm for food: be was a hunter before he became a musician.
"However great the nomber of ages which shroud the history of a people, there is one method of interrogsting them, and ascertaining their atanding and intelligence. It is by their works. If they have left no apecimens of aTt, it is becsuee they have meraly appeared and vaniahed; or, even if they have continued stationary for any time, they must have remained weak and powerless. Experience proves that this total absence of monupents only exists among a transplanted people - among races who have been cast upon an abnormal soil and under an unfriendly sky, where they lingered out a miserable existence, alwas liable to momentary extinction. But among a people who bad a country, nad whom blavery and vice tad not entirely brolalized, we may aiways find some trace, or at least some tradition of art, evanescent perhaps, but etill sufficient to recal by a last reflection the physiognomy of the people, their social position, and the degree of citilization they had attained when that art was cultivated.
"Among these apecimens of primitive indastry, some belong to the present, and illustrate the material life; while others clearly refer to the future. Such are the arms and amulets which were intended to accompany their owners into the tomb, or even to follow them beyond the grave; for, in all ages, men have longed for an existence after death. In these tokens from the tomb - these relies of departed ages - coarse and imperfect as they appear to as artistic eye, there is nothing that we ahould despise or roject : lost witnesses
of the infancy of man and of kie first footsteps apon earth, they present us with the only remains of nations who rebred no colamns nor monaments to record their existence. In these poor relics lie all their history, all their religion: and from these few rade hierogiyphica must we evoke their existence and the revelation of thair customs. If we were engaged with Egyptians, Greeks, or Romana, people who have furnished ne with ohefb-cenvre which still serve ss our models, it would be irkoome to examins the encient oak to find whether it bsd fallen before the tempest or the axe, or to argee whether the angle of a slone had been suoothed by the band of man or the action of running water. But when the soil tre explore has no other sigos of intolligent life, and the very existence of a people is in question, every veatige beoomes history. It is essy to conceive thet of all the works of man in those ancient deposits, ouly such inatrumonis of atone shonld remain. They alone were ahle to resist the ection of time and decomposition, and above all of the witera Which put the whole in motion. All these flints bear marks of mutual cononssion and inceasent friction, which silex alone conld have resiated. The time when they were deposited where We now find them, was no donbt that of the formation of the bank itself; it must be beperated from our epoob by an immense period, perhaps by many revolations; and of all the monuments known upon earth, these are doubtieas the moat ascime."
W. U.

## CHAPTER XII.

HYBRIDITY OF ANIMALS, VIEWED IN CONNECTION HITH THE<br>NATURAL HISTORY OF MANKIND.

[By J. C. N.]
The subjects embraced in this and the succeeding Chapter appertaining more to my individual studies than the rest, the reader will perceive that I generally speak in the first person; at the same time that every recognition is due to my colleaguo (G. R. G.) for material aid in the archæological department. Withont further preface let me remark, that the importance of Hybridity begins to be acknowledged by all anthropologists; bccause, however imposing the array of reasonings, drawn from other sources, in favor of the plurality of origin, may scem, yet, so long as unlimited prolificuess, inter se, of two races of animals, or of mankind, can be received by naturalists as cvidence of specific affiliation, or, in other words, of common origin, every other argument must be abandoned as illusory.

We are told that, when two distinct species are brought together, they prodace, like the ass and the mare, an unprolific progeny; or, at most, beget offspring which are prolific for a few generations and then run out. It is further alleged, that each of our own domestic animals (such as horses, doga, cattle, sheep, goats, hoge, poultry, \&c.)
is derived from a single Mesopotamian pair; and that the varieties of these, springing up spontaneously in diverse climates differ as widely as do the races of men. Hence an argument is deduced in favor of the common origin of mankind. The grand point at issue is here fairly presented: hut reasons exist for dissenting from the ahove foregone conclusions.

In 1842 I published a short essay on Eybridity, the object of which was, to ahow that the White Man and the Negro were distinct " species;" illustrating my position by numerous facts from the Natural History of Man and that of the lower animale. The question, at that time, had not attracted the attention of Dr. Morton. Many of my facts and arguments were new, even to him ; and drew from the great anatomist a private letter, leading to the commencement of a friendly correspondence, to me, at least, most agreeable and instruetive, and which endured to the close of his useful career.

In the essay alluded to, and several which followed it at short intervals, I maintained these propositions:-

1. That mulatlocs are the shorlest-lived of any clags of the human race.
2. That mulatioes are internediate in intelligence between the blacke and the whites.
3. That they are less capable of undergaing fatigut and hardahip than either the blacks or wites.
4. That the mulatto-woman are peculiarly delicate, and sohject to a variety of chronio diseases. That they are had breaders, bad narges, liable to abortions, and that their children generglly die young.
5. That, when mulattoet intermarry, they are less prolific than when crossed on the parent stocks.
6. That, when a Negro man married a white woman, the offspring partook more largely of the Negro type than when the reverge connection had effect
7. That mulattocs, like Negroes, although unecelimated, enjoy extraordinary exemption from yellow-fover when broaght to Charleaton, Sayanaah, Mobila, or New Orloans.

Almost fifty years of residence among the white and black races, spread in nearly equal proportions throngh South Carolina and Alabama, and twenty-five ycars' incessant professional intercourse with both, have satiefied ine of the ahsolute truth of the preceding deductions. My observations, however, during the last for years, in Mobile and at New Orleans, where the population differs essentially from that of the Northern Atlantic States, have induced some modification of my former opinions; although still holding to their accuracy so far as they apply to the intermixture of the strictly white race (i.e. the Anglo-Saxon, or Teuton,) with the true Negro. I stated in an article printed in "De Bow's Commercial Review," that I had latterly seen reason to credit the existence of certain "affinities and repulaions" among various races of men, which caused their hood to mingle more or less perfectly; and that, in Mobile, New Orleans and Peneacola, I had witnessed many examples of great longevity among
mulattocs ; and sundry instances where their intermarriages (contrary to my antecedent experiences in South Carolina) were attended with manifest prolificacy. Seeking for the reason of this positive, and, at first thought, unaccountable difference between mulattoes of the Atlantic and those of the Gulf States, observation led me to a rationale; riz., that it arose from the diversity of type in the "Caucasian" races of the two sections. In the Atlantic States the population is Teutonic and Celtic : whereas, in our Gulf cities, there exists a preponderance of the blood of French, Italian, Spanish, Portuguese, and other dark-skinned races. The reason is simple to the historian. Our States along the Gulf of Mexico were chiefly colonized hy emigrants from Southern Europe. Such European colonists helonged to types genealogically distinct from those white-skiuned "Pilgrim Fathers" who landed north of Florids. Thus Spain, when her traditions begin, was populated principally by Pberians. France received a considerahle infusion of the same blood, now almost pure in her Basque provinces. Italy's origins are questions in dispute; but the Italians are a dark-skinned race. Such races, hlended in America with the imported Negro, generally give birth to a hardier, and, therefore, more prolific stock than white races, such as Anglo-Saxons, produce hy intercourse with Negresses. Herein, it occurred to me, might be found a key to solve the enigma. To comprehend the present, we must understand the past; because, in ethnology, there is no truer saying than, "Colum, non animam, mutant qui trans mare currunt." This sketch indicates my conceptions. I proceed to their development.

Bodichon, in his curious work on Algeria, maintains that this lberian, or Basque population, although, of course, not Negro, is really an African, and prohably a Berber, family, which migrated across the Straits of Gibraltar some 2000 years before the Christian era; and we might, therefore, regard them as what Dr. Morton calls a proximate race.

The Basques are a dark-skinned, hlack-eyed, black-haired people, such as are often encountered in Southern Europe; and M. Bodichon, limself a Frenchman, and attached as Surgeon to the French army during fifteen years in Algeria, holds, that not only is the physical resemhlance between the Berbers and Basques most striking, but that they assimilate in moral traits quite as much; moreorer, that their intonations of voice are so similar that one's ear cannot appreciate any difference. Singularly enough, too, the Basque tongue, while radically distinct from all European and Asiatic languages, is said to present certain affinities with the Berher dialects. The iatter opinion, however, requires confirmation.

Subsequently to my incidental notices, Dr. Morton took up the entire question of hybridity, with his accustomed zeal; publishing his first two articles on it in Silliman's Journal, 1847; after which he continued a series of papers, in the Charleston Medical Journal, down to the time of his death in 1851 . I attach little importance to my own lahors on this suhject, beyond that of attracting Dr. Morton to its investigation. None more than myself can bonor him for the glorions triumph which his publications on this theme acbieved for science. My object, tben, being solely to place the question before the public as it actually stands, I shall use not only Dr. Morton's ideas, but his language, freely, throughout this chapter; merely extending to the races of men those principles of hybridity wbich Dr. Morton chiefly confined to known intermixture among the lower animals.

Hybridity, heretofore, has generally been treated as if it were a unit; whereas its facts are as susceptible of classification as any other series of physiological phenomena. For the terma remote, allied, and proximate species, there will be frequent call; and, in consequence, the reader is requested to look back (supra, p. 81) in this volume, to understand the meaninga which, in common with Morton, I attach to them. Finding that the definitions customarily given of "species" apply as readily to mere varieties as to acknowledged species, the Doctor proposed the subjoined emendations:-

[^124]It is believed that the series of facts berein embodied will establish the natural existence of the following degrees of hyhridity, viz. : -
18t. That in which bybrida never reproduce; in other worde, whate the mixed progeay begins and onde with the flrat croses.
2. That in which the bybride are incapable of roproduaing inter es, but multiply by anion with the parent stock.
8d. That in wich animala of unquestionably distinct species produce a progeny which is prolific inter sa.
4th That which takes pleof between alosely proximate apecies - among mankiod, for example, and among those domestio mimals moot amential to homan wants and happiness: here the prolificecy is unlimited.
There is, moreover, what may be called a mized form of hyhridity, that ceritainly has exerted very great influence in modifying some domestic animajs; and which cannot be better expressed than in the language of Hamilton Smith : 一
"The adranoes towards hybrid canes me alweyt mede by the domestic apecies to the wild; and when than obtained, if kept by itself, and the crose-breed gredually becomea atenile, it does not prevent repested intermistare of one or the other; and therefore the armishlon of a grest propertion of alien blood, whieh may egain be crossed npon by other hybrids of another coorce, whether it be © wolf, pariah, jeokal, or dingo." 3x

Mankind, zoologically, mast he governed by the amme laws which regulate animale generally; and if the above propositions apply to other animals, no reason can he adduced in science why the races of men should he made an exception. The mere prolificacy, whether of human or of animal races, cannot therefore he received per se as proof of commou origin in respect to either.

After the lapse of so many centuries, or, to repeat Prichard's language, chiliads of years, since the last Creation, it would he strange indeed did not many difficalties surround the question of hybridity: hat one thing seems certain, viz., that es regards unity or plurality of origin, mankind, together with all our domestic animals, stand on precisely the same footing. The origin of our horses, dogs, cattle, sheep, goats, hogs, \&c., no less than that of humanity, is wholly unknown; nor can science yet determine from how many primal creative centres, or from how many pairs, each may have originated. Our Chapter I., on the Geographical Distrüution of Animale, has detailed (what is now conceded hy naturahists whose authority is decisive), that, so far from a supposititions common centre of origin for all organized beings on our glohe, there are in reality many specific centres or zoological provinces, in which the fanas and flora of each are exclusively peeuliar. ${ }^{24}$ The present volume estahlishes, through evidences varied es they are novel, that history finds the different races of mankind everywhere under cireumstances which lead irresistihly to the conclusion, that hamanity obeys the same laws which preside over the terrestriel distrihution of other organized heings.
"A priacips! cause [well observes Jaequibot] of varieties among domestic animals is, the blending of dissimilar apecies among themselves; and it is this powerful agency which bas contributed in the lergent degree to obecare and entangle the question of the verietiea of men and of domertio animals."

Passing over, as non-essential to the point immediately before us, the numerous examplea illustrative of hybridity, in Dr. Morton's first and second degrees, we shall throw together a few of the more prominent instances of his third and fourth, in their direct bearings upon the plurality of the human apecies, in order to exemplify the question at igsue.

## Equina Hyprids.

The genus eques (harse) is divided by Cavier into five specien; viz. : the horse (equys - eaballus); the dsigguetai (eq. hemoniss); the ass (eq- arisus); the zebrs (eq. zebra); the couggge (eq. quaceha); the onagga, or danw (eq. montanus).

So far es experimente prove, these all breed freely inter as; bat the degress of fortility among their 7erous hybrid offepring, are matters yet to be determined.

Our common males, or progeny of the ase end the mare, 源e the best known hybrids, and they are nevor prolific with each other; bat thert are efow inatancea reoorded where males have produced offopring when crossed on the perent whock: such nceidents being, as oren Herodotus observed, 300 mort common in hot ollmatas than in cold.

## The Hinny-

Offapring of the horas and ahe-ass-is rarely seen in the Divited States (bat, we are cold, is more frequent in Egypt, aod in the Levant; phere some hionies are said to be even handsome): beiog a small, refractory, and (for draught) a comparstively useless animal, there is no practical objoct in our breeding them. I heve seen one example in Mobile, very like a dwarfed, mean horse. The borse's likeness here greatly predominsted: the head and eara wfre stanall, and precisely like its father's; the lega and feet were slender and emall, like those of the mother; and the tail, as in the as8, was lank, with little hair. In the common male, the head, on the contrary, resembles the ass. Judging by this example alone, it would seem as if the type of the sire predominated In hybrids. Sacb probsble ? m , according to my ohservations, applies in some degres to the bumen hybrid. Ex. gr., wben the pare white mes is croseed od the Negress, the head of their mulatto child ordinarily resembles moce the father than the mother; bat where s Negro man has been ooupled with s white woman, in thalr offspring the color, the features, and the hair of the Negro father grestly preponderate. We cannot state, from obeerration, what may be the grade of intelleot in the latter hyhrid; but in a common mulato the degree of intelligence is absolutely higher than in the follblooded Negroen. About this deduction no dispate existe among medical practitionera in our Southern States, where means of verificatiou are pecularly sbondant.

Not only do the female ans and the male onagge breed together, but a male offepring of this crosa, whe a mare, produces an animal more doclle than either parent, and combining the best physical qualitien, auch as strangth, speed, ko.; whence the ancients preferred the onagge to the ees for the production of mules. ${ }^{3 n}$ Thie opinion, Mr. Oliddon abys, is atill prevalent in Egypt; and is acted opon more particularly in Arahia, Persia, 80., where the gour, or wild ase, still roams the denert. Cavier had seed the cross between the ass and the zebrs, as well as betwoen the female sehra and the horse.

An important point should he horne in miod, viz. : that the ass is not the proximate, or nearest opecies, of the genas equa, compared with the borse; but that place Cuvier asigns to the ey. hemonius. Bell and Gray are even disposed to place the ase in dis-
tinct genus. If, therefore, it wers desired to experimentalize fairly, with the riow of producing a prolific bybrid, the true horae should be coupled with the eq. hemoniur in a proper climate, and under favorable conditions. This experiment, as far as we tnow, not having been properiy tried, analogy warrants the anspension of a negative.

From the unlimited productiveness among the different races of borses, it bas been boldly inferred that all horses bave sprang from a solitary phir, popsessing a common Mesopotamian origin, and therefore constituting a aingle species; bat an nefomption without proof, wbile valid reasons support the contrary, may be summarily dismissed. The elabornte and skilfal resestches of Hamilon Smith have thrown strong doabts over this superannusted ides of equine unity. He separates horses into five primitive stocks; which appear to constitute " distinct thougb oscillating species, or at least races, separated at so remote a period, that they claim to have been divided from the earliest times of our present zoology." ${ }^{307}$ Bo trae is this, thet alrendy two distinet species, if not more, of fossil horaes exist in geological formstions of this Continent, independenty of the others familiar in European palsontology. 30

About horses, Morton's later MSS. enshle as to quote the following textaally :-
"After an elsborsto and most instractiva inquiry into the natoral history of the horse, Col. Hamilton Smith has arrived at the following conclasions, thich we prefer to give in his own words: 'That there ran a period when equide of dincinot forms, or elosely-approximating apecien, in races widely different, wandered in a wild state in separate regions, the residue of an anterior animal diatribution, perhaps upon the great mountain live of Central Asis, where plateaux or tsble-lands, exoesding Armenien Ararst in olevation, are still occupied by wild horses; thet of these some races still extant have been entirely subdued; auch for erample an the Tarpans, the Kirguise and Pamere woolly white race, and the wild borses of Poland and Prussis; that from their similarity, or antecedent unity, they were constituted so as to be fusible into a common, single, specific, but very rariable atock, for the purposes of man, under whose fostering care a more perfect animal was bred from their mixture, than any of the preceding, singly taken. These inferences appear to bo supported by the ductility of all the secondary charactera of wild and domestio horaes, which, if they are not admitted to constitate in some cases apecifio differences, where art wo to find those that are enfficient to dialinguish a wild from a domestic apecies \& And with regand to different, though oscillating apecies, why should the oonclusions be unsatisfactory in horsea, when in gosts, sheep, wolves, dogs, and other apecies, we are forted to accede to them 9'" seos

Some of these races atill flourish in a wild atate on the table-Lands of Central Asia; st the ssme time that sll have united to form, in domestication, very mixed and variable types.

A aingular fact, which I bave never seen noticed, is worthy of mention. The thorough-bred rece-horse is rarely, if ever, bebeld of a cream, or a dun color, or piobald My attention, directed to this point for more than twenty years, as yet meets with no example; nor, through ioquiry among turf-men, heve I been able to hear of a single case where the pedigree wha well anthenticated. Horaen of the above colors are exceedingly common in the United Btates; far more so, as I know from personal obeerpatioo, than in Engisod or France; and the only solution that ocenrs to me is, the anpposition that the early Spevish emigrants may have brought over to A merica some breed of borses, distinct from the Arsbian stoek of Engtand, or from ang of the racen of France and Delgiom.
"When Cmear invaded Britain he found there a race of indigenous ponies, with bughy manes and tails, and of a dun or aooty color, with the black atrenk oo the spine which marks the wild races of northers Europe. This wariety mas knona in a wild alate for centaries after, and in every part of the island. This horse was subsequently amigranted with the Roman and Saxon breeds, whence a great diversity of eire and
color in our own times.400 These native British horses were the encestora of the ponies now called Shetland, Scottish, Galloway, and by various other names." 40 .

Naturalists remark that those animsis, such ws the ass, the compel, the dromedary, llama, \&c., upon which the most gengible ressons are based for alleging a community of spesies, do pot run into those endless and extreme varieties ohservahle in dogs, borses, eattle, incep, goats, or hogs.

## Bovine Hybrids.

The ox tribe oceupy, among naturalists, a poaition identical with that of the horee; many of our beek authorities contending for plarality of apeciea. The origin of anr raried domestic races is mholly unknown, and the domestication of cattic antedates the enrliest Egyptian monuments, together with the writer of Genesis [i. 24, 25, 26, ] him: self. The bison or American buffelo and our sommon catile produce bybrid offspring Which is omprolifio infer se; but these hybrids reproduce without limit when coapled with the parent atocks; and this again faraishes another ondeniable degree in the history of bybridity.

## Caprine and Ovine Hybrids.

The weight of authority, as vicloriously proven by Dr. Morton, decidedly favors plurality of species for our domestic goats and sheep. I shall not tax our readers with the detaile of the disconsaion, which they can find in the Charleston Ned. Journal are (between bis dispasaionate science on the one band, and the captious garrulity displayed by doginatism on the other) : but one of the most note-worthy examples of a prolific hybrid anywhere to be found in the range of nstaral history, must not be paseed over; viz.: the offisprigg of goate and sheqp when coupled together. The gost and the sheep being, not merety distinot epecies, but distinct ganera, the exsmple therefore becomes the unore precions, fhilgt its authenticity is irrefragable: sustaining, farthermore, the authority of Baffon and Cuvier, for the fertility of such hybride, which are not only ferile with the parent stocks, but inter re. ${ }^{403}$
Another instance of hybridity, not less curious, and perfectly attested, is that of the deer and ram, quoted by Morton from Carl N. Hellenius, published in the Memoirs of the Royal Swedish Academy of Stockholm. After going through his experiments in detail, Hellenius concludes with the following summary:-
"I bave thus, from this pair (female deer - cerrur capriolus, and the male sbeep - odis aries), obtained seven offprings: vix.,
"Four from the ram and deer - two of each sex
"Two from the deer's frst bybrid male offepring, vix., by crassing this latter animal with the Finland ewe; and by croseing this same male with the female offroping of the dear and rem.
"One, a ewe, by pairing the Finland ewe with one of her own progany, from the first hybrid male derived from the deer and ram."

Hellenins furthermore gives a copious narrative of the form, fleece, and mised habits of these animals, which were alive, healthy, and vigorous, when the account was published, and may be so still.

It is clear, from this unmistakeable testimony of Ifellenius, tbat a mixed race of deer and eheep migbt be rendily produced and perpetuated by bringing together many pairs; precisely as is done daily with the goats and sheep of Cbili alluded to by the well-known naturalist and academician, M. Chrvbrol. Here we obtain a prolific hybrid
again, from distinct genera; and, what is singular, the female progeny resembles the mother, and the male the father. Another fact to show the absurdity of queralous arguments drawn by the misinformed from "analogy."

The old and standard authority of Molina, in his Natural History of Chili, bastains the recent assertion of Chevreul, ${ }^{\text {ow }}$ in the Journal des Savans, as to the fact that the inhabitants of Chili, for a long time have been in the habit of crossing goata and sheep expresely with the vicw of improving their fleece in a hybrid progeny, whose prolificacy knows no limits.

## Camblline Hybrids.

Linners, Fischer, Ranrani, H. Smith, Lession, Dameril, Destazrest, Desmonlina, Qaatrefages, Bory, Pleming, Cavier, and all well-read neturallite of the present generation, regard the camel and dromedary as distinet apectes, and admit their prolificacy inter se. Buffon, in whose day Oriental mathers were little koown, denied that they are diglinct species, simply on the ground that they are prolific. The Arabian camel and dromedary, no less than the camdus bactrianus, are figured on the monuments of Nineveh, at leant 2500 years ego, precisely as we see them now. Oor Fig. 15 (eupro, p. 126) exhibits the aingle-hamped specias ; and the rest are easily verified in the folio piates of Botte and Flandin, and Layard.
The following is extrected from one of many communications obligingly made to the authors hy their honored friend Col. W. W. S. Buiss, U.S. A.; in whose person knowledge the most diversified and accomplishments of the highest order were eomhined with that military science and cool bravery which won universal admiration on the hlood-stained field of Buena Vista. Alas! his eyes were closed by the writer's hands on the 5th of August, 1853.
"Eversmann, who is known as an inveatigstor of Natoral History in Boohara, remarks that three different species of camel are found there, all of which copulste together and bring forth prolific young.
"1. Ain is the two-hwmped bactrian (eamaluar bactrianke), with long wool.
"2. Nar is the one-humped eames, which Byersmann cally cameluf dronedariur, but wbich is camelur oulgarm, the common Arabing amel; for the dromedary in oniy a particular breed, not a particular apecian
" 6 . Lcy is the mame given to a camel with orto hurap, larger than the above, and taving quite orisp, short, dark-brown wool.
"The copulation of camele, asya the above-nemed naturalist and traveller (Eversmana), takes piace in Buoharei in March and April, and between camela and bactrians, as well as the third race: its products are again prolific, self-propagsting, foals. We might from his, as Buffon and Zimmerrann have siready done, infer the unity of genas and mere varieties of species; hat apart from this, the namber of humps at least eeems to be no essential fndication of epecies; for, says Everamann, it cannot be determined beforeband whether the progeng of sucb crossing of races will have one or two humps : they are always bastards, and not of a pure species." "as
Suanne ffybrids.
We dismisa this eomewhat obseare theme by merely atating that, according to the best naturaliste, austained by Dr. Morton's critical esssye, the peight of euthorits in favor of plarelity of species predominates here also. So it does again, in respect to Feline Bybrids.

## Canisb Hybrids.

No question, perhaps, in natural history bas caused more controversy than that of the origin of domeatic dogs. Our highest authorities have expressed most opposite opinions, and many are the important points yet at isaue. Nevertheless, the last three years have accomplisbed much towards settling sundry pugnacious dilettanti, if not all scientific disputes. Some writers have derived all our dogs from the wolf: thus assigning to Noah's unaccountable predilections in hehalf of a tame lupine pair ("species" unrecorded) the present existence of byenas, jackals, foxes-laughing, or round-backed; hig, or little; white, black, red, gray, or blue - as well as every kind and size of dog, from a Muscovite "muff-dog" to the colossal St. Bernard; now eaten by Chinamen and Sandwicb Islanders; driven by Esquimaux; kicked by Maslim orthodoxy; whipped in English humts; fondled by Parisian dames; abhorred by thieves and vagranta, if loved by shepherds, sportsmen, wagoners, and hostlers, besides all other honest men with their prattling cbildren, universally since the Flood.

Othere assert that dogs are animals absolutely not descended from the wolf, and also that they comprise many distinct species, created in many different zoological regions; whilst others, again, believe that all living dogs proceed from intermixtures of wolf, fox, jackal, and hyena - in short, from any canider, except from canks.

As facts now stand, the opinion of Dr. Morton may probably be deemed the most correct. His convictions are, that the origin of domestic dogs is at least threefold : viz. -

1at Prom aeveral apecies of lupins and rupine animblo.
2d. From rarions apecies of wild doge.
8d. From the blending of these together, with perhaps occasional admixtare of jeckes, under the infnence of domestioation.
$\Delta$ subject so replete with ecientifio interest in its general connections with other departments of natoral hiatory, and especially on account of ita bearings on the physical history of man, renders it imperative that facts should here be presented somewhat in delail; and I shall again intermesve without reserve the langugge of Dr. Morton.

Martin, in his Hintory of the Dog, justly remarked that "the name wolf is a vagre one, because there are various spegies of wolves in Egrope, Asia, and Americs; and further, if each of these apccies hes given rise to a breed of dogy in the different countriea where they are found, then, an all domeatic dogs promiscuously breed rogether, the adrocste of the non-edmixtore of epecies in plunged into a dilemme." 408
M. de Blainville, speaking of the experiments of Bnffon on dogs and wolves, ndopts the ides of distinct epecies for these animals; thereby lesving the inference that alf dogy are not descendsats from one primitive atock. The great naturalist tented the question 80 follows:

1st. He bronght together a cur-dog and a ahe-molf. The result of this union was a litter of forr pups - two male, and two female. No dificulty occorred in procuring this crose.

2d. A male and a female of the Arst genaration were coupled; whence four pupd of which two lized to maturity : a male and a female.

3d. The second gederstion being crossed, a third generation of seven pupa wen the consequaence.

4th. A female of the third generation, crossed by her aire, gave birth to four pupr, of which one male and one female lived.
Buffon sent two of sach bybrids to M. Le Rai, Inspector of the Park at Versailles Here they bred logether, producing thres pups. Two were given to the Prince de Conde - but of these no secount remsins. The third, retained by ML Le Roi, was killed is a boar-bant. The fother of these whelps was then mated with a sbe-walf, Who bore three pupe. Here the report closes. 67
"I hsve seen, in Moscow," says Pallas, " bbout twenty opurious animals from dogs and black wolves (c. lycaon). They are, for the most part, like wolves; exeept that they carry their Lails higher, and have a kind of hoase barting. They multiply among themselves; and some of the whelps are grayibh, rusty, or even of the whitish bue of the Arctio wolves." we Crosses of this kind have been known from remate antiquity, and are ealled colf-dogs (e poneranus). One of them is figored on an Etrabcan medal of the reoond or third oentury before Christ. Orid, descriting the pack of Acteon, enamerates some thirty dogs, whioh appear to represent many differeat breeds; and he is carefol to observe that one of them (Napt) sprang from at wolf; while another (Lycisea) is erideatly the dog which Pliny refers to timilar mixed bloods,

Dy a froal dog, is meant s domesticated dog which has ron wild. Numberless are the instances of this kind, where dogs bave become wild and mulliplied; but in no inalance, save through lupine admixture, have dogs ever been brought to resemble wolvea The dog of New Holland, called the dingo, is a reclaimed lopine, or wild dog. It it still found abandantly in the Fild stato in that conntry. Some nataralista consider the dingo to bo a distinct apecies, or an sboriginsi dog; others, a periety of the common dog. Australis, it should be remembered, passesses an exclasive fasas and fora; and the canis dingo would seem to be the aboriginsl canine element pertaining to this special noological provisce. The dingo, wild or tame, preaerree its own physied characteristica when pure, but breeds freely with other doge.
Syatems of zoology mostly limit our North American wolves (exolusively of those of Mexico and Califoraia) to two speciea - cania luptse and canis katran. Bat there ia litte reason to donbt that the groy exolf of Canads and other northern parts of this continent, is a different species from any of the Old World. Richardson adopts for it the dame of $C$. cecidentalis, and jong sgo hesitated sbout its relation to the $C$. lupur, because they differ both in conformation and character. Townsend describes tbe giant wolf as a distinct species, by the name of C. gigat; and Peble makes the eame digtinction.

While the doge indigenous to North America, according to Morton, are derived from at least two species of wolves, which he considers, in common with Gray, Agessiz, Richardson and others, to be peculiar to our continent, the Europenn race felthongh in some instances largely crossed by another nolf) is for the most part deroid of any sach lupine mixture. The domestic doge of Europe, when they assume the feral state, cannot be mistaken by naturalista for wolves. Besides, it will be proved further on, that the dog, the wolf, the jackal, and the hyena are figared as distinct animals on the mongments of Egypt, in company with many diferent races of doge, as far back as 8500 years before Christ.

Dr. Morton held the Indinn dogs of North America to ho derived from at least two distinct epecies of wolves; that these teo species have combined to form a ibird, or hybrid rece, snd that this last unites again with the European dog.

Sir John Richardion travelled over more then 20,000 miles of the northern regions of Americs; traveraing $30^{\circ}$ of latitude, and npwarde of $50^{\circ}$ of longitude; occupied for neven years in making observations. To him are we mainly indebted for the following feets: -

## The Esquimaux Dog (C. familiaris, Desm.)

"The great resemblance which the domesticated dogs of aborigioal Americans bear to the wolves of the same country, was remarked by the earliest settlers from Europe, and bas induced some nstaralista of mach observation teconsider them to be merely helf-nmed wolves. Without entering at all into the queation of the origio of the domestic dog, I masy state that the resemblance between the wolves of those Indinn nations who still preserve their ancient mode of life, continues to be rery remarkable; and it is nowbere more so than at the very northern extremity of the continent - the Esquimatr doge being not ouly extremely like the grey wolf of the Arctic Circle in form and color, but also pearly equnling them in size." 49
This famed Arecio vogager and naturslist adds, that he saw a family of these wolves, when playing together, occasionally carry their hails curved upwarda; which seems to be the principal character which Lingwas eupposed to digtinguiah the dog from the wolf.
Capt. Parry relates that his officers, seeing thirteen wolves in a single pact; mistook them for Eqquimanx doga ; bo completo was the regemblance. He observed, that when the wolf is tamed, the two animala will readily breed together. 10
From these and other facts familiar to natoralists, it would appear that the Eequimand dog is a reclaimed northern wolf (canir octidentalis).
"The common American wolf," Richardson observes, " somatimen ahows a remarkable diversity of color. On the banks of the Mackenzie I saw five goong wolves leaping and tumhling over each other with all the playfalness of the pappies of the domestic dog, and it is not improbsble that they were all of one litter. One of them was pied, another entirely black, and the reat showed the oolora of the common grey woive日.".

So vartable, however, are the exteral charactery of the latter animal, both as to size and color, that naturalists beve endeavored, at diferent timen, to estahlish no Iess than five apecies in the northern part of Amarios alone. Two of these, however ( $C$, ater and C. nubilus), are generally regarded as mete varieties of the common grey wolf. Hence, it would naturally follow, that the domestication of these several varieties would develop a correaponding differance between oar northern Indian and the more Arctic doga of the Esquimaux; although both kinds may claim, in part, the same apeoific origin. Speaking of the wolves of our Sashatohewan and Copper-mine rivers, Richardson atates:-
"The resembinace between the northern wolves and the domestic dog of the Indians is so great, that the sise and strength of the wolf sems to be the only diference. I have more than once miataken a bend of woives for the doge of a party of Indians; and the howl of the animais of both species is prolonged, and ao exactly in the same key, that even the practiaed ear of an Indian fails at times to discriminate between them,'ill At certain seasons they breed freely with the woif, while, on other occasions, both male and female wolvea devour the dogs at they would any other prey."
The Hare-Indian Dog (C. familiaris lagopus).
The author just quoted obserrea, that similitadea between this animal and the prairie-woif ( $C$. latrans) are " so grest, that on comparing live specimens, I could detect no difference in form (except the emallness of the cranium), nor in the fineness of the for, and the arrangement of ite spots and color. In fact, it bears the same relation to the pratrie-wolf, that the kaquimeax dog does to the great grey woil ( $C$. occidentali)." $4: 2$

Like the cognate wolf, these doga vary considerably in color, size, and shapa; 000 those on the Mackenzie river being so remarkably amall, as to bave been somatimes compared to the Aretic fox. In the Mandan country the doga are Iarger; and are likeWhe assimilated by gay, the Prince de Wied, and other travellers, to the prairie-woif.
" Daring my resldence in the Michignn Territory, in the gear 1881-92 (wrote Dr. J. C. Finise to Dr. Morton), I on aeveral occeaions ahot the Ojibeway or Indian doge, by
mistake, for the prairie-molf, and supposed that I bow it well; bat, after the frequent mistakes I made, I became very asatious wbout ahooting them, lest I should kill more dogs. They were the common doge of the Ojibevay, Pottamatamie and Olame tribes."

The North American os common Indian Dog (C.familiaris Canadernis).
"By the above tite," eays Richardson, "I wish to deagrate the kind of doga which is most generaly cultivated by the native triben of Cenads and the Hudson Bay countries. It is lntermediate, in efze and form, between the two preceding varieliec; and by those who congider the domestic races of doge to he derived from wild animals, this may be termed a cross between the praine and gray wolves."

In the Appendix to Capt Back's Nerratye, Dr. Rlchardson aubsequently observer, that "the offtrping of the wolf and the Indisn dog are prolifio, and are prised by the voyagors as besels of draught, being mach atronger that the ordinary dog." ais "Thit feet is corroborated," Frites Mortod, "by my friend Dr. John Erank, who has revently passed some time in the Mandan country, where the doge, however, sppear to to derived from the prairie wolf; and he aspares me, that frequent and appontaneons intercourse between these doge and the wolf of that country (which is now almost exelasively the conis actidentalie, or common gray wolf,) is a fact known to every one."

Agein, the canis Mericestu, or "Tichschi" of the Mexieans, by Humboldt said to be very much like thls dog of the northern Indians, is abso apposed to derive its parentage from a woil.

The interwixture of these two species was indeed manifest to the sente perceptions of Rishardson himsel?, who remarhs, that it "feems to support the opinion of Buffor, lately advocated by Desmoulins, that the dog, the wolf, the jacknt, and corsac, are, in fact, but modifications of the asme species; or, that the races of domesic dogs ought to be referred, each in its proper conatry, to a oorreaponding indigenous erild species; and that the speoles than domesticsted have, in the courre of their migrations in the train of man, prodncod by their various crosees with each other, with their offspring, and with their prototypes, a still further increase of different races, of which abront fifty or sixty are at present culdvated."

Such doctrizes accord with thet adopted by Morton, who ooncladea sis notice of wolf-doge as follo'ws: - "The natural, and to me very ansvoidable, conclunion, is simply this, that two species of wolves (acknowlodged to be distinct from each other hy all soologista) have eeoh been trained into a domeatio dog; that these doge bave reprodaced not only witb each olher, but with the parent stocka, and even with the Erropean dog, until \& widely-ertended hybrid race has srisen, in which it is often impossible to tell a woll from a dog, or the doge from each other."

We extract entire Morton's observaLions concerning

## Aboriginal American Dogs, from vulpine and other sources.

"Besidee the two indigenous rolf-doge of the North, of which we have eporen (the Hare-Indion and Esquimaux racee), and the thind or mired apealen (the common Indian dog), the contipent of Americe ponemeen a namber of other aborigipal forms, which terminate only in the inter-tropical regione of South America. One of these was observed by Colvmbus, on lending in the Antillee, A. D. 1482. 'Thase,' says Bufion, 'bed the bead and earn very long, and rasmbied a for in apparanca.' They me celled Aguara dogs in Mexioc, and Alcos in Pera.
" 'There are many species,' sdds Juffon, ' Whicb the natives of Oniens havo called dogs of the woods (chien des boit), becanse they are not yot redaced, like our doge, to e state of domeatication; and they are thas rightly named, beecule chay breed togather with domestic races.'
"The wild Aguaris, I halieve, are clessed, by most naturalints, with the fox-tribe; but Hamilton Smith has embraced them in a generic group, oalled daticyor, to which he and Mertin refer four apecien. The latter zoologist sum up a baries of aritical
inquiriea with the following remarks:--1 It is almoat incontestably proved, that the aborigioal $\Delta$ guars tame doga, and othera of the $\Delta$ merican continent, mbich, on the diacovery of ita different rogions, were in anbjection to the sarage or semi-civilised pations, were not onty indigenous, bat are the descondants of several wild Aguare dogs, exist ing cotemporary with thamsalves, in the moods or plains; and granting that a European race [as is the case sidee] had by some chance contributed to their production, the case is not sllered, but the choory of the blending of eparies confirmed.' " at

Dr. Tchudi, one of the mast diatinguisbed zoologitet of the present day, has paid especial sttention to the oharsoter and history of two damesticated dogs of Soath Americs, which be regerds es distinct epeoies: -

## 1. Canis Inga (Perro-dog, or Aleo).

The dag to which Tchudi gives thle name is the same that the Perurans possessed and worshipped before the arrival of the Spaniards, and is found in the tamuli of those people of the oldest epoch. It is so inferior, howerer, to the exotic breeds, that it in rapidy giving way to them, add an unmixed individual is now seldom seen; and they present "the ondetermined form of the minture of all the breeds that have been imported from Earope, and thas assame the shape of cur-doga, or of a primitive opecies." 45

We have siready seen that the Aguara, or fox-dogs, of North Ameries mingle freely with the indigenous doge of this continent. The following fecte are equally corions and valosble:-

## 2. Canis Caribaus.

Desmarest has given this, name to the bairless dog, which, as Homboldt remakks, wha found by Columhus in the Antilles, by Cortes in Mexico, end by Pisarro in Porn. Desmarest, if we mistake not, supposes this dog to be desoended from the c. cancrivorus, a native apecies, which, secording to Blainville, belongs to the aection of true wolves. But Rengger, who had ample opportunities of deciding this question, regsrda it as an ahoriginal wild dog, which the Indians hape reduced to domestiostion; and he adde, in explanatiod, that it does not readily mix with the Earopeas eppecies, and that the Indisn tribes haye, in their respective laoguages, a partionlar name for it, but none for any domeatio animal of exotic derivation. 1 ss

This animal much resemblea the Barbary dog (cani Egyptiacu); but there is no ground bat reeemblance for sapposing them to be of common origin.

Here theo, once more, we may recoguize two aboriginal dogs-one seemingly derived from the fox-tribe, or at least from fox-like wild dogs; the other, from an unknown source: yet both anite more or lesa readily with the exotio stooks, producing a hybrid race, partly peculiar in appearance, and partly resembling the mongrel races of Europe.

The Rev. Mr. Daniel states that Mr. Tattersall "had a terrier bitch which bred by a for, and the produce aguin bad whelps by doge. The woodman of the manor of Mongewell, in Oxfordshire, bad a bitch, his constant atlendant, the offopring of a tame dag-fox by a shepberd's cur, and athe again had puppies by a dog. These are auch sathentio proofe of the continuapce of the breed, that the for may be feirly added to the other supposed original stocks of these faithful domestics." 417

Dr. Morton states that his friend Dr. Woodhouse, who bad been mach in Texas and on the frontier, had proven, hy a comparison of skulls, skine, \&c., that "the Coyotte, or jackal, of Texas and Mexico is a perfectly distinct epecies, to which Dr. W. gives the name of canie puator." They breed readily with Europeac and Indian doge - this fret is notorions.

The jeckol conpled wilh the domestio dog, produces also a fertile offispring; yet thay mast be conceded to be a distinct species. Huster records an example where the hybrid produced six pape; and one of these agala brought five paps when lined by a
terrier dog. There is no difficulty in producing or keeping up euch a mixture; but there is no practical object in perpetuating it To what extent the blood of the jerkal was originally mingled with dogs, and how far it has influeneed our present typan, cannot now be determined, althongh we should imagine that the trace is loet.
"It seeme rarely to bappen that the male offspring is truly intermentiste in charscter between the two parents. Thus, Huater mentions that in his experiments, one of the hybrid pups resembled the woil much more than the reat of the litter; and we are informed by Fiegamann, that of a Iitter lately obtained at the Royal Monagerie at Berlin, from a white pointer and a she-walf, two of the cubs resembled the oommon wolf-dog; bat the otber was like s pointer, with hanging ears." 419
Facts enough, and authorities enough have already been given, to prove, we think, to any unprejudiced mind, a plurality of origin for the numerous canine species, whose blood has become mingled in our domestic dogs. If tbis point be conceded by scientific men-to whom alone we appeal - an immense stride is at once made in the Natural History of Humanity; because, zoologically speaking, mankind and canida occupy precisely the same position. Grant tbat different species may produce offepring prolific inter se, and the dogma of the unity of human families can no longer be sustained, either by facts, or by analogies derivable from the rest of the animal kingdom. Science, we are persuaded, will grant this truth ere long.

## MONUMENTAL HISTORY OF DOGS.

Whatever doubts may still linger in the reader's mind as to the diversity of canine species, wo feel confident that they must give way before the new facts we are now about to present. Like the races of men, many races of dogs can he traced back, in tbeir present forms, on the monuments of Egypt, from 4000 to 6000 years anterior to our day; and, inasmucb as there is no evidence that dogs did really all proceed from one stock, or that their different types, such as greyhounds, mastiffe, turnspits, \&c., can be trausformed into each other by physical causes; and, again, considering that all these canine types did preserve, side by side in Egypt, their respective forms for thonsands of years, these animals must be regarded, by evcry naturalist, as specifically distinct.

Substantiating our doctrine with reduced fac-similes of these monumental doge, we shall thereby enable the reader to form his own conclusions.

## Herroolyphic fot "Dog"-(Canis Lupabter 8).

The dog was one of the figurative and fymbolic forms used by the primordial Egyptians in their bieroglyphid writings; and may be traced on the inscriptions of the monumeats from the earliest to the latest Two forms were nged, whioh seem to have been caten from very distinct races; and these, again, were totally unize the beantifal grey-hound which is often sęen upon contemporary monnments. 41 .

Hiaroglyphic writing had attained its full perfection at the IVth dynasty, add we possess abundent legoods of the thirty-fith century e. c. ; bat the indention of writing, us every hierologist declares, mast inevitably antedate these monuments hy many centuries; ascending certainly to the time of Masss, s.c. 8883 ; and, pictorially, to ages anterior. The pure bieroglyphios represent things in their appropriste abapes and colort; which things are all indigenous in Egyph to the axclacion of any element foreigo to the Nile. Among them is this hieroglyphic (Fig. 235) for "dog," which, like every other primitive sign, continued to mesn "dog," down to the extinction of hieroglyphical writing, about the ffit oentary after c . Thus, one epecias of the common dog, at

Pic. 235.
 least, existed in Egypt 1600 years hefore Osher's deluge; to eny nothing of the Archbishop's fahulous ers for the world'e areation.
This (Fig. 225) is called a fox-dog by Dr. Morton; not to be confounded, however, with the "fox-hound" of English kennels. It is found in the catacombs ombelmed in great numbers throngh verious parts of the country; and appeara to bave been "t the parent stock of the moders red wild" (or Pariak) "dog common at Cairo and other towns in Lower Egypt" These doga, Clot Bey observes, lead a nomudio life, and are inverishly withoat individual masters. They are also found, semi-wild, on the confines of the desert. An intereating account of these Nilotic canidm may be consulted in Mertin's History of the Dog - and he properly regards them as a diatinot epecies, that, we may add, bay oome down unaltered from immemorial time.

A timilar - Te dare not esy the ame speeies proveils throughout Barbery; and the Levant, from Greece and European

Fin. 236.


Fetsian Whd Dog. Tarkey, through Asia Minor, Syria, Palestine, Aseyria, Persia, into Hindogtan. They belong to ciric communities, rather than to any particular person. If taken yoang jaro domestic feeping, when adult they inotinctively abandon the boase; and, if grateful for kiodnesses, they will obey no meoter ; but hang aroand the looalitien of their birth, neither enticeshle into familiarity, nor expulenble from the precincts of their oarliest associations. They are the actadengers of oriental citien; and Maslim charity, whilat ahuddering st the anclean rouch of a dog's nose, recognizes their atility, and proteote them by municipal lawe an well as by allmentary legacies. If love for their buman aequaintances be not veciferous, their hatred ro strangers in intensely so: and it is in the attitade of aunoying intruders that the annexed wild dog of Perria (Pig. 286) is represented.

Dr. Pickeriag, in the letter from Egypt to Morton before cited [oupra, p. 245], after viering these semi-wild doge with the criticel ege of a naturslish, aptly remarks:"By the way, the doge hare 1 find all of one bred, -the same, if my momory serve me, with mammied akall presented by Mr. Gliddon [1840] to the National Institate at Weahington :- vith apright eare, and vory mach of a jackal, or amall wolf, in appearance, - often, even in color. They bark, however, as I can well athoth, like other doge ; - and if this be, an alleged by some, s matter of education, there geems to be here no denger of the loss of the art"

## The Grey-hound

Is a very common animal throughoat all Eantera nations, and presenta great divergencies of external form. Several narieties, probsbly three, are seen on the monaments of

Pia. 287.


Grey-hound.

Egypt; and the specimen here delinested (Fig. 287) is from oes of the tombs of the IV th dynanty, 8400 yeara b.c. 40 Thjs deg is cotemporary with the hieroglyphic dog, and next to that is the oldeat form of grey-hound wo possess. There are now extant only thit mosuments of the IVth, Vth, and VIth dynesties in detail, and very few of other dyncsties to the XIth inelusive; or we shoald, in all probability, have beheld portrayed many other varieties of doges Agein, it is quite by norident that dogs are figured st all in the early pyramid deys; beasuse the Egypling arlist was not exhiblting a gallery of Natural Hiatory in these painted sepolohrea, but merely introducing, with the likenesa of the deceased proprietor, those thinga the lattar had loved during hin lifetime; among them the portrait of his favorite gryyhound. When arriped at the XIIth dynanty we find a reryo riab collection, because we happen to bave stumbled upon the tomb of a great dog-fasaie. It is worthy of remark, however, that although the Egyptars have aocidentally reprasented almoot the whole faum of the Nile on the monuments, jet there were some cotmmon animels whjoh never appear in scalptores now extant - an the wild asa, the wild bour, be Some doga beve likewise bean left out, beanuse there was no ohject in drawing them Martin (Hist. of the Dog) informs us that a simitar variety of grey-hound is very common still in Agis and Africs ; and Mr. William A. Oliddon, who hes spent years in the Indian Archipelego, informs me that a curl-tailed groy-hoood of tbis form is quite common among the Dynzs of Borneo, and among the aborigival inhabitants of the Malayan peninsula. They make good hanting doga. Color-dark brown, with bleck apote

The species of grey-hound glven in the above sketoh is often repeated on the monamests of the IVth, Vth, and VIth dynasties, with precisely the seme characters-long, erect ears, curled Lail, \&c.; only the tail in some apecimens is much sborter than in othera, having evidontly been out.

Fia. 288.al


Fic. 289.42


Hyene.

For the ingtraction of orthodox nataralista, who derive all canida from the Noachian pair of wolves, we suhmit the grendsire (Fig. 288) of the said lopine couple, who wes alive in Egypt 3400 years b. c.; together with one of their byena uncles (Fig. 239); and a jackal (Fig. 240)-their cousin in perbaps the fertysecond degree.

The scarcity of documenta from the IVth to the end the XIth dynasty, compels us to descend to the XIIth -$2400-2100$ years $\mathbf{~ B}$, c. Here we stand, not merely at a point whiob in several centorien before the birth of Abraham; bat, at a dey wher, if
the deluge occurred at B. c. 2348, the Egyptians, besides the wolves, hyenas, and jackals, in a wild state, possessed many kinds of dogs running about their houses, along with the common dog and grey-hound, preceding; whereas Noar's seamanship, several hundred years afterwards, could only reecue one pair of wolves from drowning on the summit of Mount Ararat, thousands of feet above the line of perpetual glaciers.

The subjoined specimen (Fig. 241) of another species, is from the tomb of Roti, who kept his kennel admirably stooked, during the XIIth dynasty. This dog is beautifully drawn and colored on the monument, and $t$ is one of the most superb canine relics of antiquity. Mr. Gliddon informs me that this is not only the common gazelle dog of Nubia at the present day, but that their ears are still cropped by the natives in the same way; as Prisse's draving attests. 426

We have not been able to find the portrait of an ancient rough hound, alluded to by Hamilton 8mith; but here (Fig. 242) is the modern rough-haired grey-hound of Arabis, probably the same; and which will be interesting to the reader as a contrast to the other grey-hounds: it bears all the marks of a distinct species; but resembles the Laconian breed.

Another variety of grey-hound is said by Morton to be represented with rougher


Fic. 242. ${ }^{123}$
 hair, and bushy tail, not unlike the modern Arabian grey-hound.

A grey-hound exactly like the English grey-hound, with semi-pendent ears, is seen on a statue of the Vatican at Rome.

Martin, whose work is full of instructive matter, says - " Now we have, in Modern Egypt and Arabia, and also in Persia, varieties of grey-hound closely resembling those on the ancient remains of art; and it would appear that two or three varieties exist one smooth, another long-haired, and another smooth but with long-haired ears resembling those of a spaniel. In Persia, the grey-hound, to judge from specimens we have seen, is silk-haired, with a fringed tail. They were of a black color; but a fine breed, we are informed, is of a slate or ash color, as are some of the smooth-haired greyhounds depicted in Egyptian paintings. In Arabia, a large, rough, powerful race exists; and about Akaba, sccording to Laborde, a breed of slender form, fleet, with a long tail, very hairy, in the form of a brush, with the ears ereot and pointed closely resembling, in fact, many of those figured by the ancient Egyptians. In Roumelia, a spaniel-eared race exists. Col. Sykes, who states that none of the domestieated dogs of Dukhun are common to Europe, observes that the first in strength and size is the Brinjaree dog, somewhat resembling the Persian grey-hound (in the possession of the Zoological Society), but more powerful. North of the Caspian, in Tartary and Russia, there exists a breed of large, rough grey-hounds. We may here allude to the great Albanian dog of former times, and at present extant, which perhaps belongs to the grey-hound family." 227

The grey-hound can thus be distinctly traced back in several forms for 2000, and in one for more than' 5000 years; and there is every reason to believe the Egyptian class embraced at least two, if not more, distinct species. Unlike all other dogs of the chase, they are almost destitute of smell, and pursue game by the eye alone. This deficiency of smell is connected with anatomical peculiarities, which must not be overlooked; because you cannot, by breeding, give a more powerful organ of scent to a grey-hound, without changing the animal into something else than a grey-hound.

## The Hound.

Like the grey-hound, the blood, stag, and fox hounds, present many forme; and it is imposaible, at the present day, to asy whether they are varieties of one species, of whether they are derived from seversl primitive opecies. As far back an hithory can trace hounds, there seems to heve been seversl very diatinct animals of this hind. Our Egyptian monuments abound in huntingecenes, in which hounds are represented in pursnit of wild enimals of various kinds. These acenes are drewn oftentimes pith great spirit; and the trathfulaess of the delineations cannot be questioned, becanse they are' perfectly true to mature at the present day, as will be seen by the subjoined drewingr.

Fia. 248.


This lessh of hound (Fig. 248) presents two maietios of the African blaod-honad; one with orect, the other with drooping ears. They be longed to Rori's hantingestablishment, eboat the 22 d century before Christ, at Be-ni-Hassen.

In Rosellini's calcred copy of the same corple, hero roduced in tise, the off-dots is painted brick-dust; the near one is in light cheatnut, with black patches.

Another of the same cboice breed (Fig. 244), in full gase.

Fia. 244.4~


Fio. 246.431


Fta. 245.40


A fourth (Fig. 245), in the ect of slayigg a gaxelle.
Hore is a noble brace (Pig. 246), With the antelope they beve captared, and their groom, retorning to the kennel.

This (Fig. 247) is a veritty of the same hound, peasivaly aweiting his dinner, about 4000 yeara ago.

Fio. 247.*


These hounds are a few specimens, selected from the several works of Lepsius, Rosellini, and Wilkinson. We could easily add a hundred more, not less characteristic. It is truly wonderful to compare these delineations, commencing as far back as the XIIth dynasty (twenty-third century b. c.), and extending down for 1000 years, with the common fox-hound and stag-hound of the present day - still more, with the African blood-hound.

In the Grand Procession of Thotigs III. ( $1550 \mathrm{~B}, \mathrm{c}$.), several of them are associated with the people and productions of the interior of Africa. ${ }^{433}$ Again, in a later tomb at Gourneh, near Thebes, figured by Champollion. Dr. Morton says - "If we compare the oldest of these delineations, viz., those of Beni-Hassan, with the blood-hounds of Africa lately living in the Tower Menagerie in London, we cannot deny their identity, so complete is the resemblance of form and instinct." 434
"On reading Mr. Birch's 'Observations on the Statistical Table of Karnac' (p. 56), I was much pleased to find this hound designated, beyond all question, in a letter of Candace, Queen of Ethiopia, to Alexander the Great, in which the former, among other presents to the Macedonian king, sends 'ninety dogs which hunt men'-canes etiam in homines efferacissimos nonaginta. And, that nothing may be necessary in explanation, the Queen further designates them as 'animals of our country.'"

The same blood-hounds, therefore, of which tribute was sent from the Upper Nile, in the sixteenth century b. c., had preserved their blood pure, down to b. $\mathbf{c} .825$, just as it is found at this day, in the same regions, after 8400 years.

## Turnspit (C. Vertagus.)

Wilkinson, Blainville, Martin, and all, I believe, are agreed upon the identity of this dog. The portrait (Fig. 248), and others of the same well-marked character, are faithful representatives of the modern turnspit, which is still common in Asia and Europe.

The figure above is from the tomb of Rori, at Beni-Hassan, in the twenty-third century before Christ.

To the same ante-Abrahamic age (the XIIth dynasty) belongs this slut (Fig. 249), who stands under her master's chair, in his tomb at ElBersheh, Middle Egypt. She is another species, but we hesitate in ascribing to it a name: although the common-dog of the Nile approaches nearest to the design. ${ }^{137}$

Not only have we various other forms of dogs on the monuments of Egypt as far back as the XIIth dynasty, which, to our mind, cannot, from

Fia. 248.435


Fig. 249.438
 mere outline drawings, be satisfactorily identified with any of our European or American races; but, as we have shown, there also exist, in abundance, representations of wolves, jackals, hyenas, and foxes, each and all of which have been supposed to be progenitors of our domestic dogs-just as Noail is said, by the same school of naturalists, to be the father of Jews, Australians, White-men, Mongols, Negroes, American aborigines, \&o.

## Wolves.

As this animal has, by the majority of old-school naturalists, been believed to be the original parent of all dogs, we

Fig. 250.438

shall introduce here one specimen (Fig. 250) of a group of four Egyption wolves, figured by Lepsius, from tombs of the IVth dynasty (about 8400 years в. c.). These Nilotic animals, which are different in species from European, are repeatedly seen, on sculptures of every epoch, sometimes chased by dogs, at other times caught in traps; in short, accompanied by so many corroborating circumstances as to leave no doubt that they were nothing but wild wolves. They are often depieted on the same monuments with dogs, ever perfectly contrasted.
Bull-dogs (C. Moloseus.)
The term molossus has been rather vaguely applied by writers; but the type of the bull-dog is well understood. It is akilfully portrayed on a piece of antique Greek sculpture in the Vatican. M. de Blainville (in his Osteographic, Canis, p. 74), states that the form and expression of the head are perfectly characteristic, even to the peculiar arrangement of the teeth. This species, too, is yet the common dog of Albania.
Mastiff (C. Laniarius). .
We have nowhere yet met with this dog on the monuments of the Nile, although it must have been known to the Egyptians, through their constant intercourse with Assyria, in early times. The magnificent original of the sketch here given (Fig. 251)

Fig. 251.40
 was taken from the Birs Nimroud, or Babylon, age of $\mathrm{Ne}-$ buchadnezsar, ${ }^{40}$ and would do houor to a prince of the present day. [His duplicste, we might almost say, is still alive; and belongs to my excellent friend Mrs. Jenkins, at Richmond, Va. -G. R. G.]
Alexander, in his march to the Indus, received presents of dogs of gigantic stature, which were no doubt of the same family as the Thibetan mastiffs. To these dogs Aristotle applied the name of leontomyx; and they are figured on two ancient Greek medals - one of which, that of Segestus of Sicily, dates in the fourth or fifth century b. ©. ; the other, which is of Aquileia Severa, Dictator of Crete, is about two centuries later.41
Shepherd's Dog (C. Domesticus).
This dog, being (if a Scotch or English "shepherd-dog" be meant) altogether alien to the Nile at this day, is not figured on Egyptian monuments; but is doubtless very ancient in Europe. The earliest effigy, also mentioned by Aristotle, is preserved on an ancient Etruscan medal of unknown date, but probably as old as our Ninevite mastiff.

These remarks on the different species of dogs, faithfully delineated upon ancient monuments, might be very easily extended; but I have set forth enough to establish that the natural history of dogs and the natural history of mankind stand precisely in the same position. In whatever direction an inquirer may turn - wherever written history,
monuments, analogies, or organic remains, exist to direct us - in every zoological province upon earth, I repeat, a specifically diverse fauma is encountered, in which distinct species, as well of mankind as of doga, constitate a part.

The earliest monuments yet published by Lepsius are those of the IVth dynasty; and from these we here already have borrowed the "hieroglyphic" or fox-dog, the prick-eared grey-hound, the blood-hound, the turnspit, with other species; together with the wolf, the hyena, and the jackal. The Egyptian fox has not fallen under our eye at this early epoch, although it is seen on later monuments. Notwithstanding that the monuments of the earliest times do not exhibit every form of dogs that existed at the subsequent XIIth dynasty, their absence is no argument why these multifarious species did not exist from the very beginning; and while all the canine forms just mentioned must ascend even beyond the date of Menes, (which Lepsius places at the year 3893 в. c.,) science can perceivo no reason to doubt that other unrecorded varicties of canidee are quite as ancient as those of wbich fortuitous accident has preserved the pictorial register down to this day.

Conceruing fossil dogs, the terrestrial vitality of which antedates Egyptian monuments by chiliads of years, Dr. Usher's enumeration (supra, Chap. XI.) of the numerous varieties discovered in geological formations, all over the world, precludes the necessity for saying more now, than that certain forms of true canider are primordial organic types; and, hence, utterly independent of alterations produced, in later times, hy domestication.
Logical criticism will allow that, if specific differences among dogs were the result of climate, all the dogs of each separate country should be alike. Such, notoriously, is not the case; for the reader has just beheld several specics of dogs, depicted (at various epochs, during 4000 years of coeval existence) on the monuments; which species are not only now seen in Egypt alive, but are permanent, always and everywhere, in other countries of climates the most opposite.
Indeed, "like begets like," to use dog-fancy terms; and a terrier is a terrier, and a dingo a dingo, all the world over, else language has no meaning; and wherover climatic action may be hostile to the permaneney of either type, it does not transform the one into the other, nor into any species diverse from each : it kills them both outright, or their offspring within a generation or two. Thus, Newfoundlands perish within very limited periods after transplantation from American snows to African suns. Their ehort-lised whelps are as likcly to become kittens as to be changed, by climate, into bullpups. An interesting exception, neverthelcss, should be observed:
viz., where dogs, becoming wild, retum to a state of nature, they have, in the course of time, resumed very different types; say, shepherd's dog, Danish dog, grey-hound, terrier, and so on. "In other words, they constantly tend to recur to that primitive type which is most dominant in their physical contitution; and it is remarkable, that in the Old World this restored type is never the woup, although it is sometimes a lupine dog, owing to the cause just mentioned.'"

Where opposite types of dogs are bred together, and their hybrid progeny becomes again intermingled, all sorts of mongrel, degenerate, or deformed varieties arise ; such as pugs, shocks, spaniels, \&c.; which Cuvier calla "the most degenerate productions;" and they are found, by experience, "to possess a sbort and fleeting existence-the common lot of all types of modern origin." Such deformities arise in nature everywhere. There is one instance of dwarfish canine malformation, 4000 years old, in Lepsius's plate ${ }^{\Delta 4}$ of the XIIth dynasty; and embalmed monstrosities of other genera were found by Passalacqua.

[^125]In the words of Jacquinot, whose "Anthropologie" ${ }^{43}$ is the ablest work on Man yet put forth in the French language, let me close these few, out of infinite, analogies in the animal kingdom, which space confines to the foregoing paragraphs on dogs. "Il est indubitable que les variétés du chien appartiennent a plusieurs types primitifs."

The facts aboye detailed eatablish, conclusively, that Hybridity is not a "unit;" or, in other words, they prove that different degrees of affinity exist in Nature, to be taken into account in all inquiries into the prolificacy of diverse "species." Equally certain is it, that climate and domestication affect animal apecies differently: some of them becoming variously modified in form and color - as horses, cattle, goats, sheep, fowls, pigeons, \&c.; while others, to considcrable extent, resist such physical influences - like the ass, the huffalo, the elk , the remdeer, pea-fowls, guinea-fowls, and so forth.

Now, it is equally singular and true, that these identical species, whence Natural History deduces very strong reasons for helieving
them to be derived from many primitive stocks, are those which undergo the greatest changes; whereas, on the contrary, other species, which equally good reasons induce us to regard as simple-that is, derived from one primitive stock-are precisely those in which the experience of ages chronicles the amallest alteration. This law (if it be such) seems to apply not mercly to the lower animals, but also to mankind. In America, for example, wbere the autocthonous population has been isolated, very little variety is found among Iudian tribes; whereas, in Europe, Asia, and Africa (more particularly in and around Egypt and India), we encounter infinite diversitics among hurnan beings, manifested in every form and by all colors.

The perplexing anomalies that beset this investigation may be illustrated by the following resumé, in which I have incorporated some very interesting facts, published by Dr. Alexander Harvey in the London Monthly Journal of the Medical Seiences: "4

Inatances are sufficiently common among the lower animals where the offopring exhibit, more or less distinculy, in addition to the characters of the male by which they were begotten, the pecaliarities also of a male by which their mother bad at some former period been impregnated:-or, as it has heen otherwise expressed, where the peoulinrities of a male animal, that bed once beld fruitful interconese with a female, are more or leas distinctly recogaised in the offopring of subsequent connections of that female witb other males. It is interesting to inquire whether this is a general lavin animal physiology; and if it be, whether, and how far, it is modified in its operation in differsat animala, and under diferent circumstances: and it is of atill more immedisto interest to us to inquire whetber, or noh, the fact extenda also to the human species. The fagin bearing upon this suhject may be most convéniently noticed-lat, in relation to the lower animale; 2 d , in relation to the humen species.

1. In tho Bruse Creation. - A young shestnut"mare, aeven-eighthe Arabian, belonging to the Earl of Morton, was covered in 1815 hy a quages, which is a specien of wild ass from Afrise, and marked nomewhat like a xehra. The mare was covered but once by the zebra; and, after a pregnancy of eleven months and foar days, gave hirth to a bybrid which bad diatinet marks of the quagga, in the shape of its besd, black hars on the legs end shouldere, de. In 1817, 1818, and 1821, the same mare, which bad become the property of Sir Gore Onaeley, wes covered by a very flos bleok Arahisd horse, and prodnced successively three foalh, all of which bore unequivocal marks of the quagga- A mare belonging to Sir Gore Oubeley was covered by a sebra, and gave birth to a striped hybrid. The year following the asme mare wet covered by s thorough-bred borse, and the next anoceeding year by enother horse. Both the foak thus produced were striped: i e., partook of the characters of the zebra. It ia stated by Haller, and also hy Becker, that when a mare has had as muke by an ass, and afterwards a foal by a horse, the foal exhibits traces of the asa. We can ourselves vouch for the truth of similar facts. A rest number of males are bred in the United States, from the ass and the mare; and wo heve Proquently seen colts from horses, out of maren, which had previously bad mulen; many of them were distinolly marked by the sas.

In theae canes, the mares wore covered in the fret instance by animals of a different apecias from themselves. Bat cases are recorded of maren covered in every inslance by horaes, but by different borses on different onoseions, whers the offspring partook of the cbaracters of the horse hy which the impreguation was first effected. Thus, in several forls in the royal stad at Hampton Court, got by the horse Actoon, there were quequivocal marks of the borse Colonel-the dams of theae foals had been bred from by Colonel the
previoun yebr. Again, a colt, the property of the Earl of Suffeld, got by Laurel, so resembled another borse, Camel, "that it was whispered, nay even asserted at New Markot, that he must bave been got by Camel." It was ascertained, however, that the mother of the Lanrel colt bad benn covered the previous year by Camel.
It has often been observed, also, that a well-bred bitch, if she have beea joppregated by a mongrel dog, will not, olthough lined subsequently by a pure dog, pear thorongh-bred pappies in the next two or three litters. Tbe like occurrence bas been noticed with the sow. A sow of a peculiar black-and-white breed was impregnated by a boar of the wild breed, of e deep chegtnat color; the pign produced were duly mixed, the oolor of the boer in some being very predominant. The sow hoing efterwards pat to a bour of the eame breed 20 ber own, some of the produce were observed to be marized with the cheatnat color that prevailed in the former litter : and, on a subsequent impregantion, thotboar being still of the same breed as the sow, the litter was also observed to be slightly staiaed with the obestont color. What adds to the value of the fact now stated is, that, in the course of masoy years' observation, the breed in queation wes never known afterwards to prodace progeny bering the amallest tinge of chestrat color. We may here remark that it is only in a state of domestication that naimals produce offspring of various colors. When left entirely to the operation of natural causes, they never exbibit this sporting of colors; they are distinauished by varions and often beautiful ahades of color; bat then ench species is true to ith ofn family type, even to a few hairs or mall parts of a feather. It is needleas to repeat examples of thene facts - they are familiar to all rearers of animaln; emong oattle they are of every-dsy occurrence. There is another fact worlhy of notica. It is well moma to cattle-breeders, that the term of atero-gestation is much influenced by the sire-thecalves of one bull will be cerried longer in utero then those of another.
2. In the Human Speries. - There are equally dibtinct breeds of the boman family as of any of the lower animale; and it is affroed thnt the buman female, when twice married, bears occseionally to the secoad husband childrea.reeembling the first both in bodily strocture and mental powers. Where all the parties are of the same coior, this atstement in not so easy of verification; but, where a woman has had children by two men of different colors, such as a black and e white man, it would be coraparatively ensy to observe whether the offipring of the latter connexion bore any reaemblance to the former parent. Count Strieleoki, in hia Physical Fintory of Van Diemen's Land, asserts that, when a native woman has had a ohild by a Buropean mste, "sho loos the pooer of comecption, on a reneval of intercourse, with a mala of her own race, retaining only that of procreating with the white mer." "Hundreds of instanoes (say the Count) of this extreordinary fact are recorded in the writer's memorends, all oceurring invariably under the ame circamstances, amongst the Hurons, Seminoles, Red Indlans, Yakies (Binalos), Mendose Indians, Aurioos, South Sea Ealandert, and natives of Net Zaaland, Now Gouth Walea, and Van Diemen's Iand; and all tanding to prove that the sterility of the female, whioh is relative only to one and not to another male, in not nocidentel, hut follows lawi as cogent, though as mpaterious, at the reat of those conneoted with generation." In this sweeping asaettion the Count may have been miatalear: a traveller could hardiy have had opporinnities for ascortaining a feat, which it must require years of careful obserpation to confirm. It is certain that no tuch thing exists between the whitef nad Negroes; the two racen with which we are the moat familiar; becanse examples are of frequent occurrence, where a Negreas, after having had a child by a white man, hea had a family by a hashad of ber own color.

Instances are cited, whare a Negro woman bore mulatto children to a white man, and aftermards had hy a black man other children, who bore a strong resemhlanoe to the white father. both in features and complexion. It is supposed by tome, that the influence, exerted on the geacrstive bystem of a female of one race by sexual intercourse with the male of another, may bo increased by repeated connexions; and Dr. Laing informs us of the case of an English gentleman io the Weat Indies, who had a large family hy a Nogro woman, and where the chiddren exhibited soccessively, more and more, the European featores and complexion. I have living with me a bleck woman, whose first child was by a white man:


#### Abstract

she has had aix abildren since, by a black hubbend, who are perfecty bleck, and anlke the first father; yet, it is a singular fact that thase cbildren, though atrongly-marked Nogroes, bear no family likeness to either father or mother-their physiognomy is as distinct as that of any tro families of the seme race. The children of a second husband may resembla the first gufficiently to attract attention, even where there is no atriking contrast of color; thug Dr. Hartey cites a onse where a lady was twice married, and bad isone by hoth husbands. One of the children by the second marriage bears an unmialakable resemblance to ber motber's first hushand; and what makes the likeness more disceraible is, that there was a marked difference in fenturea and general appearance between the two basbands.


The chain of facts hercin by this time linked together, aside from many more of identical force that might easily be added, proves conclusively that prolificacy between two races of animals is no test of specific affiliation; and it therefore follows, as a corollary, that prolificacy among the different races of men carries with it no evidence of common origin. On the other hand, if it can be shown that the Ias of hybridity prevaila between any two human races, the argument in favor of plurality of apeciea would therehy be greatly strengthened.

I think that the genus homo includea many primitive speciea; and that these species are amenable to the same laws which govern species in many other genera. The species of men are all proximate, according to the definition already given; nevertheless, some are perfectly prolific; while others are imperfectly so-possessing a tendency to become extinct when their hybrids are bred together. At the beginning of this chapter I referred to my own observationa, made some years ago, on the crossing of white and black races: and my investigations since that time, as well as tbose of many other anatomiats, confirm the views before enuncinted. So far as the races of men can be traced throogh osteography, history and monuments, the present volume eatablishes that they have alwaya been distinct. No oxample is recorded, where one race has been transformed into another by external cauces. Pernanence of type must therefore be regarded as an infallible test of specific character. M. Jacquinot rery dexterously remarks that, according to the theory of unity of races, a mulatto belongs to a "species" as mach as any other huraan being, and that the white and black races would be but "varicties."

When two praximate species of mankind, two races bearing a general resemblance to each other iu type, aro bred together - e.g., Teutons, Celts, Pelaggians, Tberians, or Jews-they produce offspring perfectly prolific: althougb, even here, their , peculiarities cannol become so entirely fused into a homogeneous mase as to obliterate the original types of either. One or the other of these types will "crop-out," from time to time, more or less apparently in their progeny. When, on the other hand, species the most widely separated.
such as the Anglo-Saxon with the Negro, are crossed, a different result has course. Their mulatto offipring, if still prolific, are but partially so; and acquire an inherent tendency to run out, and become eventaally extinct when kept apart from the parent stocks. This opinion is now becoming general among observers in our slave States; and it is very strongly insisted upon by M. Jacquinot. This skilful naturalist (unread in cis-Atlantic literature) claims the discovery as original with himself; although erroneously, hecause it had long previously heen advocated by Eatwick and Long, the historians of Jamaica; by Dr. Caldwell; ${ }^{\text {ws }}$ by Professors Dickson and Holbrook, of Charleston, S. C. ; and hy numerons other leading medical men of our Southern States. There are some $4,000,000$ of Negroes in the United States; about whom circumstancer, personal and'professional, have afforded me ample opportunitics for observation. I have found it impossible, nevertheless, to collect such statistics as would be satisfactory to otbers on this point; and the dificulty arises solely from the want of chastity among mulatto women, which is so notorious as to be proverbial. Although often married to hybrid males of their own color, their children are begotten as frequently by white or other men, as by their husbands. For many years, in my daily professional visits, I have been in the habit of mecting with mulatto women, either free or slaves; and, never omitting an opportunity of inquiry with regard to their prolificacy, longevity of oftispring, eolor of parents, age, \&c., the conviction has become indelibly fixed in my mind that the positions laid down in the beginning of this chapter are true.

Hombron and Jacquinot bave asserted ou their own authority, as well as upon that of others, that this law of infertility holds also with tbe cross of the European on the Hottentot and Austraian.

[^126]The official reports published by the British Parliament confirm this statement as to Australia.
French and Spanish writers have maintained that, when the grade of quinteroon is arrived at, the Negro type is lost, and that such man becomes no longer distinguishable from the pure white. In some of the Weat India Islands this grade of slave by law becomes free. Now, it must be rememberel that the Spaniards, and a certain proportion of the popnlation of Frunce, are themselves already as dark as any
quinteroon, or even a quadroon; and thus it may readily happen that very few crosses would merge the dark into the lighter race: but, when the Anglo-Saxon and the Negro are brought together, no such result has been perceived, or hinted at, in the United States, where the latter amalgamation is going on upon an immense scale. Slaves of Southern States, seduced by delusive representations, are constantly making attempta to escape to free States ; and would succeed without difficulty in most cases, were it not for their color: yet they have rarely, if ever, beeome so fair through white lineage as to escape detection. I am not sure that I ever saw at the South, one of such adult mixed-bloode so fair that I could not instantaneously trace the Negro type in complexion and feature. When we bear in mind the length of time during which the two races have been commingling in the United States, how are we to explain this fact? Tbe only physiological reason that may be assigned is this: the mulattoes, or mixedbreeds, die off before the dark stain can be washed out by amalgamation. No other rational explanation can be offered.

Mr. Lyell speaks of some mulattoes he met with in North Caroline, whom, he says, he could not distinguish from whites; but, if any such examples exist, among the multiform crosses between Anglo-Saxons and Negrocs, they must be extraordinarily few; because my balf centnry's residence in our slave States should have brought me in contact with many instances. However, an Englisbman, coming from an island where a Negro is a "rara avis," and running through the United States at Mr. Lyell's speed, could not become familiarized with these various grades, and therefore his eye might well be deceived. The great geologist certainly made many other decidedly erroneous observations in his American tour; quite innocently we all admit.
M. Gerdy claims (Traite de Physiologie) that primitive human species have all disappeared through amalgamations; giving a most erudite rehearsal of the wars and migrations which have influenced races, from the earliest times downwards: but it is a hard matter to wash out blood; and we oppose the fact, that the representatives of many original types still live: sueh as the Greeks (heroic type), the Basques, the Jews, the Australians, the Indians, and, above all, the Egyptians.
M. Jacquinot, whose ability and great opportunities for investigation add much weight to bis authority, lays down the following conclusions:-
"1. A tpecice, or race which represents it, is primitive, when all the individuala that oompose it present the same physical characters, anme color of skin, anme type of face, same conformation, same kind of halr - notwithatanding the varieties of physiognomy of individuals, which vary to infinitude in sll species.
"In a species, eccording to Cavier, 'the childrea resemblo the father and modicr, ats much as these resemble eesh other.'
> " 2. It is impossible, no matter how we produce croeses between speojes or ruces on the globe, to obtain a product which repreeents exactly one of the primitive types ; that is to asy, we shall dever be able to construct, with all the pieces, a Negro, an American, a German, or a Celt.
> " 3. The species will soparate from the primitive type, and will become the more eltared by crosges with other species, in proportion as tho individuals which compase it differ from each other, and an the types are more numeroos.
> "4. The greater the differences among individals, the less the epecies which have produced them will be near (poinines) to ench other, and bice verat." wr

The laws governing hybridity have as yet been but imperfectly studied. Some points of vital 'interest, connected with the crossing of races, have passed by without notice; for example, the relative influence of the male and the female on progeny. The physical characteristics of the common mule (offspring of the ass and mare) are well known. It partakes of the characters of both parents; but in tbe form of the hond and ears, as well as in disposition, it inherits more of the ass than of the horse. The bardeau, or hinny (offspring of horse and she-ass) partakes, on the contrary, mucb more of the peculiarities of the horse - the head being small, closely resembling the borse; the ears short; the disposition rather that of the horse; and the voice is not a bray, but the neigh. The mule and hinny are almost as much unlike each other as the horse and ass. How far this rule may he applicable to other infertile hyhrids, I am not prepared to say.

Where proximate specics are lired together, the abore rule, based upon equidx, applies with less force; e.g., the dog and wolf, or different species of doge. I have seen pups from the cross of the eur-dog and wolf, which presented an intermediate type; but the following appears to show that a different breed of dog may produce a divergent result:-
"In tho recent experiments of Wiegemann, in Berlin, of the offepring of a pointer and sbe-wolf, two remambled the father, with hagging eare, while the other was like $A$ woifdog." +1

When the grey-hound and fox-hound, the fox-bound and terrier, are coupled, their offepring partake rather of the half-and-half type.

We are unable to declare what shades of difference may arise from the manner of crossing canine males and females. A grey-hound poosesses great speed, has a peculiar shape, and pursues his game by sight alone; heing so destitute of amell as to he incapable of trailing it. The fox-hound, on the contrary, tracks game almost solely by scent, has little speed, hut great endurance. Now, when fox-hound and grey-hound are bred together, their offspring is intermediate in form, in speed, in sense of smell, and in every attribute. Such law, I believe, holds with regard to all cloge, when thorough-bred.

Some years ago, I was intimate with a gentleman who owned a
fine pack of fox-hounds. Wishing to retain the sense of smell, and at the same time procure more speed, he commenced by crossing them with grey-hounds; and continued crossing until he obtained a stock of but one-eighth grey-hound, which doge gave him all the qualities desired.

Now it would appear, from sundry facts already set forth under our "Caucasian" type, that even proximate species are not invariably governed by the same laws. Some species produce an intermediate type, like the dogs just cited; while others possess a tendency to reproduce each of the parent stocks. We may instance the white and gray mice, the deer and ram, no less than the fair and the darkskinned races of men.

During a professional visit (which interrupted these lines) to the house of a friend, Mr. Garland Goode, my notice was attracted by some curious facts respecting the crossing of races. Among his slaves he owns three families, all crosses of white and black blood, as fol-lows:-

1st. A moman, three-fourths white, manried to a half-breed mulatto man. She kad four children; the two enst and the last of which weve ovan more fair than the mother. The other prosented a dark complexion - that of the fother.
2d. A mulatto woman, half-breed, married to a full-blooded Negro man, not of the jettiest hue, although bleok. They had thirteen children; of whioh moet were eren bleoker than the father, while two exhibited the light complexion of the mother.
8d. A mulatto man, married to a vary bleok Negrees. They bad twelve ohildran; and here again the majority of the children were coel-black, whereas two or three were an light in complexion as the father.

With respect to these examples, it is evident that, in the first case, white-blood predominated in the parents. In the two latter, the Negro blood was paramount. Thus, in three cases, the law of bybridity seems clearly to bave heen called into action. The children had a tendency to run into tbe type of the predominant blood: because, in the first example, white-blood preponderated in the children; in the two last, black-blood. Now, I do not consider this rule to he constant; but such examples are common. Mr. Lyell has again, in these matters, made statements upon exceptions to rules, and not, assuredly, upon the rules themeelves.

Observations are wanting to settle many of the laws that govern the mixing of human epecies. In the United States, the mulattoes and other grades are produced by the connection of tho white male witb the Negress; the mulattoes with each other ; and the white male with the mulattress. It is so rare, in this country, to see the offspring of a Negro man and a white woman, that I have never personally encountered an example; but such children are reported to partake more of the type of the Negro, than when the mode of crossing is
reversed. I am, however, told that the progeny derived from a Negro father presents clanricteristics different from those whero the male parent of mulattoes is white; and consequently I suspend decision.

Our ordinary mulattoes are nearly intermedinte between the parent stocks; governed, apparently, very much by laws similar to those we have instanced in the grey-hound and fos-bound. They are, however, as hefore stated, less prolific than the parent stock; which condition is coupled with an inherent tendency to run out, so mucb zo, that mulatto humanity seldom, if ever, reaches, through subsequent crossings with white men, that grade of dilution which washes out the Negro staio.

While speaking of dogs, we hinted, that the brain and nervors system, in auimal nature, are so influenced hy croseing, as to make instincts and senses partake of intermediate characters. The aame law applies to haman white and black races; for the mulatto, if certainly more intelligent than the Negro, is less so than the white man. His intelligence, as a generni rule, augments in proportion to the amount of white-blood in his veins. This is invariably the case in the United States. In Mayti, mulattoes govemed until exterminated by the blacks; and it is the mulatto element which now dominates, and always will govern in Liberia, until this experimental colony be annexed by Anglo-Snxons, or annibilated hy native Negroes. Comparisons of crania alone substantiate this view, upon anatomical grounds; the past ratifies it, upon historical data: future Liberian destinies, if deduced from such premises, are not exhilarating. Again, in Africa itself, all Negro empires are ruled by the superior Foolah races.
It may he received, I think, na a fact, that in white races the intellect of children is derived much more from the mother than the father. Popular experience remarks, that great men acldom heget great sons; and it is equally true, that dull women do not often produce intelligent children. On the other hand, the mothers of great men almost invariably have been distinguished by vigorous natural intellects, whether cultivated or not. Now, it is singularly noteworthy, in connection with the above phenomena, that this doctrine scems to be reversed where black are crossed with white races. The intellect of a mulatto, child of a white maie and $a$ Negress, is cer tainly superior to that of the Negro; and I have pointed out, when speaking of the mule and bardeau, that the form of the head is giten by the sire. Space now precludes my doing more than suggest inquiry into a new and interesting point, unfortuantely not illumined by Morton's penetration.

Again and again, in previous publications, I have alluded to the fallibility of arguments drawn from analogy alone, while insisting
that no true analogies can be said to exist. Every animal, from man to the worm, is governed hy apecial physiological laws. Let me notice, en passant, the curious fact, that natural giants and dwarfs are next to fahulous in the animal kingdom, although frequent enough in the human family; subjoining an extract from one of my earlier articles on hybridity :-

[^127]Our chapter on Geographical Distribution alludes to one peculiar effect in the crossing of races, ns illustrated by the blacks and whites in our Southern States: viz. - how the smallest admixture of Negro blood is equivalent to acclimation against yellow fever, heing almost tantamount to complete excmption.

Much passes current, among breeders of domestic animnls, about the improvements of breeds by crossing them; and similar idens have been suggested hy many writers, as applicable to the human family; but the notion itself is very unphilosophical, and could never have originated with any intelligent naturalist of thorough experionee in such matters. It is mind, and mind alone, which constitutes the prondest prerogative of man; whose excellence should be measured hy bis intelligence and virtue. The Negro and other unintellectual types have heen sbown, in another chapter, to possess heads much smailer, hy actual measurement in cuhic inches, than the white races; and, although a metaphysician may dispute about the causes which may have debased their intellects or precluded their expansion, it can not be denied that these dark races are, in this particular, greatly inferior to the others of fairer complexion. Now, when the white and black races are crossed together, the offspring exhibits throughout a modified anatomical structure, associated with sundry characteristics of an intermediate type. Among other changes superinduced, the head of a mulatto is larger than that of the Negro; the forcheal is more developed, the facial angle enlarged, and the intellect becomes manifestly improved. Tbis fact is notorious in the United States; and it is historically exemplified by another: viz., that the mulattocs, although but a fraction of the population of Hayti, had ruled the island till expelled by the overwhelming janlousy and major numerical force of the blacks. In Liberia, President Roberts boasts of but ono-
fourth Negro blood; while all the colored chiefs of departments in that infant republic hold in their veins more or less of white-blood; which component bad been copionaly infiltrated, prior to emigration from America, into that population generally. If all the whiteblood were suddenly abstracted, or the flow of whitening elements from the United States to be stopped, the whole fabric would doubtless soon fall into ruins; and leave as little trace behind as Herodotus's famous Negro colony of Colcbis, or the more historical one of Meroe. From the best information procurable, we know that there bas been a vast deal of exaggeration, among colonizationists at home, abóat this mulatto colony of Liberia abroad; nor, much as we shonld be gratified at the success of the experiment, can we perceive how any durable good can he expected from it, unless some process be discovered by which a Negro's head may be changed in form, and enlarged in size. History affords no evidence that cultivation, or any known causes but physical amalgamation, can alter a primitive conformation in the alightest degree. Lyell himself acknowledges:-

[^128]To persons domiciled in our slave-States, it is really amusing to bear the many-toned hosamnahs aung in Old England and in New England, over the success of the Republic of Liberia; while the world. abakes with laughter at Frenchmen for attempting a republic, or any other stahle form of government shoft of sbsolute despotism; as if Negroes were a superior race to the Franco-Gauls!

Rohespierre gave, in palliation of bis cruelties, that you could not reason with a Qallic opposition: the only way to silence it being through the guillotine. It would be a curious investigation to inquire, what was the type of those turbulent apirits? I bave little doubt that each despot of the hour would be found to have been one of those dark-skinned, black-bsired, black-eyed fellows, depicted so well [oupra] by Bodichon; and if the imperial government were simply to ehop off the head of every demagogue who was not a blond white-man, they might "get along" in France as tranquilly as in England, Germany, and the United Statcs. Dark-skinned races, history attests, are only fit for military governments. It is the unique rule genial to their whyaical nature: they are unhappy without it, even now, at

Paris. None but tbe fair-skinned types of mankind have been able, hitherto, to realize, in peaceful practice, the old Germanic system deseribed by Tacitus - "De minoribus rebus, prineipes consultant; de majoribus, omnes"-omnes, be it understood, signifying exclusively white men of their own type.

If these remarks be true in basis, it is evident, theoretically, that the superior races ougbt to be kept free from all adulterations, otherwise the world will retrograde, instead of advancing, in civilization. It may be a question, whether there is not already too much adulteration in Europe. Spain and Italy, where the darker races are in the majority, continue still behind in the marcb. France, althougb teeming with gigantic intellects, bas been strugghing in vain for sixty years to found a stable government - ber population is tainted with bad elements; and wherever Portuguese or Spanish colonies attempt to compete with Anglo-Saxons, they are left astern, when not "annexed." It is the strictly-white races that are bearing onward the flamheau of civilization, as displayed in the Germanic families alone. Sir Walter Scott declares:-
"The government of Spain, a worn-out despotism, lodged in the hands of a family of the lowest degree of intellect, was one of the worat in Europe; and the atate of the nobility in general (for thore were noble exceptions) seemed searcely lete degraded. The incestaoca practice of marrying within the dear dogrees of propinquity had long existed, with ita usal consequences: the dwarfing of the body and the degenernoy of the understanding." Al To which Mr. Percival Hunter adds, that "writera on lunaey attribute the insanity, or rather the innate idiooy, so frequent among certain Bootch families, to the old natioual practice of never marrying out of their clan." ${ }^{40}$

The civilization of ancient Rome, acbieved by a very mixed race, although grand in its way, was, neverthcless, characterized throughout by cruelty, a certain degree of harbarism and want of refinement.
These crude clements of the laws of hybridity - laws by no means clearly defined in anthropological science - derive some illustration by contrasting the aristocracies of Enrope. In England, where intermarriages between impoverished nobles of the Norman stock with wealthy commoners of the homogeneour Saxin, and where elevation of plebeians to the peerage, reinvigorate the breed, such patrician classes comprehend more manly heauty (Circassia, perhaps, excepted) than exists in the same number of individuals throughout the globe.

[^129]and reparded the oupporters of party with the honors of the crown. At every general election a batch was made: eight peerages were created in 1790 ; and in 1794 , when a Whig defection to him took place, ten were created. Sir Egerton Brydges, a very accomplished man, bof as a geneslogist and a man of letters, published a special pampblet on the point in 1798. He undoubtedly expresged the viems of the ariatocratio party when be sad -
" In every parliament I have seen the number angmented of buay, intriguing, pert, low members, rho, without birth, education, bonorable epployments, or perhaps eren fortune, dare to obtrude themaelvea, and push out the landed interest.'
. . . "What then is at present the portion of genuine aristocracy in the House of Lords? Calculations have been made by genealogiats on this anhject, of which we shall ayail ourselves.
"The learned author of the Origines Gerealogica analysed the printed peerage of 1828 , and found that of 249 noblemen 35 'laid clain' to baving traced their descent beyond the Conquest; 49 prior to $1100 ; 29$ prior to $1200 ; 82$ prior to $1300 ; 26$ prior to $1400 ; 17$ to 1500 ; and 26 to 1600 . At the same time 30 bad their origin bat little before $1700 . .$. Here then we bave a result of one-half of the pecrage being at all events araceabie to a period antecedent to the Wars of the Roses. But of these a third only had emerged at all out of insignificauce during the two previons centuries.
"Sir Herris Nicolas fixes as his standard of pretension in Family, the having been of consideration, baronial or knigbtly rank, that is, in the reign of Queen Elizabeth; and applsing that teat to the English Peerage in 1830, found that ome-third of the body were entitled to it.
"There still remains in the male line, up and down England, a considerable namber of landed families of very high antiquity; but the gradasl decay and extinetion of these is the constant theme of genealogista. Hear old Dugdale in the Preface to his Baronage in 16.5.
"He frst speaks of the Roll of Battle Abbey, and says of it : -- 'There are great errors or rather falsities in most of these copies. . . . Such hath been the subtilty of some monk of old.' But, speaking of bia lahora, generally, be has these more remarkable words: -
" 'For of no less than 270 families, touching which this first volume doth take notice, tbere will hardly be found above eight which do to this day conlinue; and of those not any yhose estates (compared with what their anceators enjoyed) are not a little diminished. Nor of that number (I mean 270) above trenty-four whe are by any younger male branch descended from them, for sught I can discover.' "aso
Hence ethnology deduces, that the prolonged superiority of the English to any other aristocracies is mainly due to the continuous upheaval of the Saxon element: and, at such point of riew, the social nepirations of Lord John Manners would seem to be as philosophical as his poetic effusions are unique:-
"Let arts and manners, laws and commerce, die; Bat leave ua still our old nobility!"
So, again, in Muscovy. German wives and Teutonic officers have metamorphosed the old Tartar nobility into higber-castes than Ivan and his court would have reputed to be Russian. On the other hand, tbe recreant crew of conti, baroni, marchesi, in Spain, Portugal, Italy, Sicily, and parts of Southern Europe, inciude some of the most abject specimens of humanity anywhere to be found. The physical canse of this deterioration, from the historical greatness of thcir auccstral names, is said to be-"breeding in and in." Now, this may be true enough, as an uppareut reason; hut is there mot a lateut one? History shows tbat
the families most degraded (in Portugal especially, where the lowest forms are encountered,) are compounded of Iberian, Celtic, Arab, Jewish, and other types - pure in themselves, but bad in the amalgam. Pride of birth, for centuries, hns prevented them from marroing out of the circle of aristocracy. With rare exceptions, they are too mean in person to he accepted by the white nobility of Northern Europe. The consequence is, they intermarry with themselves; and, as in other mulatto compounds, the offspring of such mongrel comminglings deteriorate more and more in every gencration. They cease to procreate, and there are somo hopes that the corrupt breed is extinguishing itself. The Peninsular war, and the still more recent Don-Pedro-experiences, left on the mind of every foreign legionary concerned, the sentiment that, "if you take a Castilian, and strip him of all his good qualities, you will leave a respectable Portugnee." It is precisely the same with the Perotes, Greek aristocracy of Istamhoul: on whom read Commodore Porter's "Letters from Constantinople, by an American." Such aro unsolved enigmas in the roughhewn conceptions we can yet form of human hybridity.

It seems to me certain, however, in human physical history, that the superior race must inevitally become deteriorated by any intermixture with tho inferior; and I have suggested elsewhere, that, through the operation of the laws of hybridity alone, the human family might possibly become exterminated by a thorough amalgaration of all the various types of mankind now existing upon earth.
Sufficient having been said on the crossing of races, I sball close this chapter with a few remarks on the propagation of a race from a single pair, or what in common parlance is termed "breeding in and in." It is a common belief, among many rearers of domestic animala, and one acted upon every day, that a race or stock deteriorates by this procedure, and that improvement of breed is gained by crossing. Whether such rule be constant or not, with regard to inferior animals, I am unprepared to aver-some authors having cited facts to the contrary. Science possesses no criteria by which it can determine beforehand the degree of prolificacy of any two species when brought together; and so differently are animals affected by physical agents, that actual experiment alone can ascertain the comparative operations of climate upon two given animals when moved from one zoological provinee to another - some becoming greatly obanged, others hut little, and man least of all. Recurring to our definitions of remote, allied, and proximate "species" [supra, p. 81], let us inquire what are the data as respects mankind.

Will any one deny that continued intermarriages among blood relations are destructive to a race, both physically and intellectually?

The fact is proverbiai. Do we not eee it most fully illustrated in the royal families and nohility of Europe, where such matrimonial alliances have long heen customary? The reputation of the House of Lords in England would long since have been extinct, had not the Crown incessantly manufactured nobles from out of the stardy sons of the people. Cannot every one of us individually point to degenerate offspring which have arisen from family intermarriages for mere property-sake?
In early life, I witnessed a most atriking example, in the upper part of South Carolina, where my father owned a country-seat. Almost the entire population of the neighborhood was made np of Irish Covenanters, who had moved to that country hefore the Revolutionary war. They had intermarried for many generations, until the same hlood coursed through the veins of the whole of them; and there are many persons now living in South Carolina who will hear me out when I atate, that the proportion of idiote and deformed was unprecedented in that district, of which the majority in its popnlation was stupid and dehased in the extreme. I could mention eeveral other striking examples, beheld in higher life, hut it would he painful to particularize.
And do not the instincts of our nature, the social laws of man, all over the civilized world, and the laws of God, from Genesis to Revelations, cry aloud against incest $f$ Does not the father shrink with horror from the idea of marrying his own child, or from seeing the bed of his daughter polluted by her brother? Do not children themselves ahudder at the thought? And can it be credited, that a God of infinite power, wisdom, and foresight, should have heen driven to the necessity of propagating the human family from a single pair, and then have stultified his act by stamping incest as a crime? m
I do not helieve that true religion ever intended to teach a common origin for the human race. "Cain knew his wife," whom he found in a foreign land, when he had no sister to marry; and although corruption and sin were not wanting among the patriarcha, yet nowhere in Scripture do we see, after Adam's sons and danghters, a brother marrying his sister.
It is shown, in our Supplement, that many of the genealogies of Genesis have been falsely translated, and otherwise misconstrued, in our English Bihle; and that the names of Abraham's ancestors represent countries and nations, and not individuals. Moreover, nowhere in Genesis is the dogma of a future atate hinted at: and its uncient authors could have had no object in teaching the modern jdea of unity of races, when those writers themselves possessed no clear perceptions apon "enlvation" hereafter.

In my remarks, five years ago, on "Universal Terms," reproduced and extended in this volume, I showed that the only text in the New Testament which refers directly to the unity of races, is that in Acta, where St. Paul gays, that God "hath made of one blood all nations of men." I hold that no ecientific importance should be attached to this isolated passage, inasmuch as the writer of Acto employed universal terms very loosely; at the same time that he knew nothing of the existence of races or nations beyond tho circumference of the Roman Empire.

Dr. Morton, in one of his letters to me (Sept. 27, 1850), shortly before his demise, thus emphatically expressed himself: -
"Formy ofn part, if I could beliseve that the haman race bad ite origin in incest, I should think that I bad at once got the olue to all nogodiness. Two lives of Catechism would explain more than all the theological disonseione since the Christian era. I have put it into rhyme.
" $Q$. Whance cato that ourse we cail primeval sin?
" $A$. From $A$ dam's children breeding in and in."
The reader can now appreciate some of the contradictory phenomena that perplex the investigator of human Hybridity. I have purposely set them hefore him in juxtaposition. . To me they appear irreconcileahle; unless the theory of plurality of origin he adopted, together with the recognition that there exiet remote, allied, and proximate, "species," as well of mankind as of lower animals.

Having speculatively alluded (supra, p. 80) to a possible extermination of races in an unknown futurity, I would here briefly justify such hypothesis hy saying, that Nature marches steadily towards perfection; and that it attains this end through the consecutive destruction of living heinge. Geology and paleontology prove a succession of creations and destructions previously to any effacements of Man; and it is contended hy Hombron and other naturalists, that the inferior races of mankind were created before the superior types, who now appear destined to supplant their predecessors. Alhcit, whatever may have been the order of creation, the unintellectual races seem doomed to eventaal disappearance in ail those climates where the higher groups of fair-skinned families can permanently exist.

The entire race of the Guanches, at the Canary Islands, was exterminated by the Portugnese during the thirteenth and fourteenth centuries; not a living vestige remaining to tell the tale. Some of the pre-Ccltic inhabitants of Britain, Grul, and Scandinavia, seem to have shared a similar fate: $16,000,000$ of ahorigines in North America have dwindled down to $2,000,000$ since the "Mayfower" discharged on Plymouth Rock; and their congeners, the Caribs, have long been extinct in the West Indian islands. The mortal destiny of the whole American group is already perceived to he running oat, like the aand
in Time's hour-glass. Of 400,000 inhabitants of the Sandwich Ielands, far less than 100,000 survive, and these are daily sinking heneath civilization, missionaries, and rum. In New Holland, New Guinea, many of the Pacific islands, and other parts of the world, the same work of destruction is going on; and the lahors of proselytism are. vain, save to hasten its accornplishment.
"Pourquoi cela?" asks Bodichoncs " $h$ is becaube their social state is a perpelual strift against humanity. Thas, marder, depredstions, incessant useless atrifes of one againgt another, are their natural gtate. They practise bamen sacrifices and molifationg of men; they are imbued with bostility and antipathy towards bl not of their race. They maintain polygamy, slarery, and submit women to labor incompatible with female organization.
"In the eyes of theology they are lost mea; in the eyea of morality vicious men; in the eyes of humanitary economy they are non-prodacers. From their origin they heve not recognized, and they still refuse to recognize, a supreme lat imposed by the Almighty; viz.: the obligation of labor.
"On the other hand, all nations of the earth have made war upon the Jctes for 4000 gears: the Egyptians, the Aesyrians, the Greeks, the Eomans, \&ce; - Christians and Xfehommedans by tarna; with innumerable cruelties, phytical and moral: nevertheless, that race lives and prospers. Why? Becanse they have everywhere played their part in the progress of civilization.
"True philanthropy (insista Bodichon) should not tolerate the existence of a race whose natiouality is opposed to progress, and who constantly straggle against the general rights usd interesta of humanity."
Omnipotence has provided for the renovation of manhood in countries where effeminacy has prostrated human energies. Earth has its tempests as well as the ocean. There are reserved, without doubt, in the destinies of nations, fearful epochs for the ravage of human races; and there are times marked on the divine calendar for the ruin of empires, and for the periodical renewal of the mundane features.
"In the midst of this crash of empires (eays the philosophical Vrarx), which rise and fell on every side, immatable Nature holds the balance, and presides, ever diapassionataly, orer such events; which are but the re-estsblishment of equilibrium in the syatems of organined beings."
J. C. N.

## CHAPTER XIII.

## COMPARATIVE ANATOMY OF RACES.

[By J. C. N.]


#### Abstract

"Cranioram inquam quibus ad gentilitias varietates distingsendas et definiendas nulls alis hamani corporis pars aptior videtar, cum caput osseam (praterquam quod animm domicilium et officins, imo vero isterpres quasi et explanator ejus sit, utpote aniveres physiognomize basin et firmamentum constituens) stabilitati suæ maximam conformationis et partium relativm proportionis varietatem janctam habeat, undo characteres nationum certissimat dsummere lised."

Blitamiach.


Is examining the physical organization of races, the anntomist of the present day possesses many advantages over his predecessors: his materials for comparison are far more complete then theirs; and the admission now generally made by anthropologists, that the leading types of mankind now seen over the earth have existed, independently of all known physical causes, for some 5000 years at least, gives quite a new face to this part of the investigation.

It has been shown in preceding chapters that permanence of type must he considered the most satisfactory criterion of specific character, both in animals and plants. The races of mankind, when viewed zoologically, must hare been governed by the same universal law; and the Jew, the Celt, the Iberian, the Mongoi, the Negro, the Polynesian, the Australian, the American Indian, can bo regarded in no other light than as distinct, or as amalgamations of very proximate, species. When, therefore, two of these species are placed heside cach other for comparison, the anatomist is at once struck by their strong contrast; and his task is narrowed down to a description of those well-marked types wbich aro known to be permanent. The form and capacity of tbe skull, the contour of the face, many parts of the skeleton, the peculiar development of muscles, the hair and akin, all plesent strong points of contrast.
It matters not to the naturalist how or when the tope was stamped upon each race; its permanence makes it specific. If all the races sprang from a single pair, notbing ehort of a miracle could have produced such changes as contenders for "unity" demand; because (it is now gencrally conceded) no chuses are in operation which can
transmute one type of man into another. If, as for centaries it was supposed, the races became actually transformed when tongres were confounded at Bnbel, I presume this was effected by an instantaneous fiat of the Almighty; and when done it was "ipso "facto" irrevocable. No terrestrial causes, consequently, could reverse His decree; nor, afterwards, metamorphose a white man into a Negro, or vice versa, any more than tbey could cbange a horse into an ass.

However important anatomical cbaracteristics may be, I donbt whether the physiognomy of races is not equally so. There exist minor differences of features, various minute combinations of details, certain palpable expressions of face and aspect, which language cannot describe : and yet, how indelible is the image of a type once impressed on the mind's eye! When, for example, the word "Jew" is pronounced, a type is instantly brought up by memory, which could not be so described to another person as to present to his mind a faithful portrait. The image must be seen to be known and remembered ; and so on with the faces of all men, past, present, or to come. Although the Jews are genealogically, perlaps, the purest race living, they are, notwithstanding (as we have shown), an extremely adultemated people; but yet there is a certain face among them that we recognize as typical of the race, and which we never meet among any other than Chaldaic nations.

If we now possessed correct portraits, even of those people who were contemporary with the founders of the Egyptian empire, how many of our interminahle disputes would be avoided! Fortunately, the early monuments of Egypt, Assyria, Greece, Rome, kc., and even of America, afford much information of this iconographic kind, which decides the early diversity of types: but still, science is ill-supplied with these desiderata to afford a full understanding of the subject. Our first glimpse of human races, though dating far back in time, does not (we have every reason to believe with Bunsen, reacb heyond the "middle ages" of mankind's duration.
The very earliest nonumental record, or written history, exhibits man, not in nomadic tribes, but in full-grown nations horne on the flood-tide of civilization. Even the writers of the Book of Aenesia could not divest their imaginations of the ides of some civilization coeval with the creation of their first parents; because the man, A-DaM, gave names, in Paradise, "to nll the cattle," ${ }^{46} \mathrm{BeHaiMaH}$; which implies either that, in the cosmogenical conception of those writers, some animale (oxen, horses, camels, and so forth,) had heen already domesticated; or, writing thousands of years subsequently to animal domesticity, they heedlessly attrihuted, to ante-historic times past, conditions existing in their own days present. They
could not conceive such a thing as a time when cattle were untamed; any more than arcbrology can admit that anybody could describe events prior to their occurrence.
[This is no delusion. Open Lepsius's Denkmätr, aod upon the copies of monuments of the IVth Memphite dynasty, dating more than 2000 years before Moses, (to whom the Pentatouch is ascribed, you will bohold eattle of many gemert-bulls, come, calves, oxem, oryxes, donkega (oo hortse or canchi) - together with dogs, sheop, goath, garelles; bendes birds, such as gaces, ctaxes, ducks (no common fowle), isires, sic.; the whole of them in a state of entire bubjection to man in Egypt; and none represented but those animain irdigenoas to the Nilotic zoological centre of creation.

Wherever we may turn, in adeient annala, the domestication of overy domerticable aximal has preeoded the epoch of the ohronicle through which the faot is made mown to as; and atill more extroordiary, there are not s dozen quadrupeds and birds that man has lamed, or anbdued from a wild to a prolifically-domestic condition, but were already in the latter state at the age whan the document sequainting us with the existence, anywhere, of a given domestic animal, was regiaterad. In these new questiona of monamental moology, Greece, Etraria, Rome, Judea, Hindostan, end Eorope, are too modern to require notioe; because none of thair earieat historians antedate, while Bome fall centuries below, Aolomon's era, в. c. 1000 . Verify, in any lexicoss, upon all cases but Jevinh fabled-antiquity, and no exception to thia rule will be found angtainable against bistorical criticism. The monaments of Aargia, whoae utmost antiquity may be fixed wr about 1800 m. c., only prove that every tameable animal repreanted by Chaldeane (single and dorble bompod camelk, alephanta, race, inclanive) whe already tamed at the epoch of the soulptart. Egeptian soology has been cited. Chinese, ${ }^{68}$ (in this respect the ouly detailed), proves that, in the times of the ancient writer, the domestication of aix animals; vix.: the boree, or, fowl, bog, dog, and aheep was ascribed to Fou-ri's semi-hletorical ert, about 8400 years before Christ
When Columbes reached this country, A. D. 1492, he foand no anlmals allen to our American continent, and noce undowesticated that man conld tame; and, when Prasaro overturned the Inca-kingdom, the llama had been, for conndens ages, a hamed quadrapod in Pera.

Grompoi St. Hilaise is ona of those anthorities seldom oontroverted by naturalista. These, in ecobstance, are hla words: --

There are forty apocier of animals redaced, at this day, to a atate of domeatioution. or these, thirty-five are now cosmopolitan, as the horae, dog, or, pig, sheep and gost. The other five bave remalned in the region of their ortgin, like the llama and the appaca on the piateanx of Bolivic and Pera; or bave been transplanted ouly to those countries which moat approximate to thelr original habitats in cellmatiocondicions; as the Tongousian reindeer st BL Petersbarg. Out of the thirty-6ve domesticated opecies poseassed by Europa, thirty-ona originate in Central Asia, Europe, and North Afrion Only four opecios have been contrinuted by the two Americas, Central and Sonthern Arrica, Anatralis and Polynesis; although these portions of the globe contain the major number of our zoological types. In consequence, the great bolk of tamed animals In Earope are of exotio orgin, Hardly any are derived from countries oolder than Franae: on the oontrary, almost the Whole were primitively inhabitante of warmer olinstes. 90

Wo than arrive at the great fact, that the domeatication by man of all domeatic animala antecedes every history extant; and, measured chronologically by Egyt's pyramide, most of these animals were already domesticated thiry-ife centaries b. c., or over 5800 yeard ego. Indeed, the fret atep of primordial man towards civlisetion must have been the anbjection of animals nusceptible of domesticity; and, it seeme probable, that the dog became the frot inetrument for the subjagation of other genera. And, while thene preliminary advances of incipient man demand epoches so far remote as to be inapprocisble by oiphers, on the other hand it in equally astounding, thet modern cirilization has scarcoly reciaimed from the aspage atate even half-a-dozen more animals than were already domesticated at erery point of our globe when hiatory dawas.

Consequently, inasmuch as all these domestications, together with the perfecting of those arts and eciences that enabled king Cueors to build the Great P'gramid, occupied Egrptian humanity unnumbered ages before the IVth dynasty, or prior to b. c. 8400, we may well consider that the carliest monuments of Egypt represeat hut the " middle ages" of humanity, and not mankind'a commencements. - G. R. G.]

There was, then, a time before all bistory. During that blank -period, man taught himself to write; and until be had recorded his thougbts and events in eome form of writing - hieroglyphics, to wit -his existence prior to that act, if otherwise certain, is altogether unattainable by us, save through induction. The historical vicissitades of each human type are, therefore, unktown to us until the age of written record began in each geographical centre. Of these documentary annals some go back 5300 years, others extend but to a few hundreds. Anatomy, however, possesses its own laws indepeldently of history; and to its applications the present chapter is devoted.

A minute and extended anatomical comparison of races, in their whole structure, would afford many curious results; but such detail does not comport with tbe plan of this work, and would be fatiguing to any but the professed anatomist. It is indispensable, however, that we should enter somewhat fully into a comparison of crania; and it may be safely assumed, as a general law, tbat where important peculiarities exist in crania, others equally tangible belong to the same organism.

While engaged on this chapter, I had the good fortune to welcome Prof. Agasais in Mobile, where he lectured on the "Geographical Distribution of Animalg," \&c. The ingtruction derived from his lectures and privste conversation on these themos, I here take acession to acknowledge.

Prof. Agassiz's researches in embryology possess most important bearings on the datural bistory of mankind. He states, for ingtance, that, during the frotal state, it is in most enses impossible to distinguish between the apecies of a genus; but that, aftor birth, nimale, being goterned by specifio lawe, adrance each in diverging lines. The dog, wolf, for, und jackaI, for example - the different species of ducks, and even dacks and geese, in the foctal state-cannot be dislinguisbed from each other; but their distinctive characters begin to develop themselves soon after birth. So with the races of men. In the foetal btate there is no criterion wherehy to diatinguish even the Negro's from the Teulon's anatomical etracture ; bat, after birth, they develop their respective characteristica in diver ging lines, irrespectively of climatio influences. This I conceive to be a most important law; and it points strongly to apecife difference. Why ahould Negroes, Spadiards, and Auglo-Saxons, at the cod of ten generations (although in the fetal state the same), still divergo at birth, and develop specific charactere? Why should the Jews in Malaber, at the end of 1500 yearg, obey the same law : Thet they do, undeviatingly, has heen aiready demonatrated in Chapter IV.; and while this sheet is passing through the press, a letter from wy friend Dr. J. Barased Davis (one of the learned authors of the fortheoming Crania Dritarnica), opportanely substantiates my former statement:-
"I find you have come to the same conclusions respecting them [the Jews] as myself. See ing that tne most atriking circumstonce adduced in the whote of Prichard'e work was that of the change of the Jews to black in Cochin and Malabar; and finding Lawreace to suate

D-, Claud. Buchanan's evidence altogether on the other side, I was induced to inquire into the matler, and settle where the trath lay. I therofore wrote my friend Mr. Crawfard, the author of the 'Indian Archipelago' and various other valuable works on the East, who cleared up the mystery at once. He anid, he had often seen the Jewa of Malaber serving in the ranks of our Sepoy regiment at Bombay, and that they are as black as the Hindoos of the same country, whe are amongst the darkest people of India; that, although they have preserved the religion of Moses, they hape intermixed with the natives of the country extensively, and it is probeble, heve litule Semitio blood in their veing. He cayg, be knew Dr. CT. Buchansn, who spent his Indisa life in the toren of Calcutta, except the single journey in which he ssw the Indisn Jewe and Christians of Bt. Thomas." Little value can in consequence attach to this worthy churohman's ethnological authority.

Another of the preceding ohaptera (IX.) demonatrates how the aborigiaal Americans present, everywhere over this cantigent, kindred types of apeoific cberagter, which they have maintained for thousands of years, and which they would equally maintain in any other country.

Prof. Agassiz also asserta, that a pecaline conformation characlerires the brain of an adalt Negro. Its development never goes beyond that developed in the Caucesian in boyhood; and, besidea other singularities, it bears, in several particulara, a marked resemblance to the brain of the orang-oulan. The Profeseor kindly offered to demonstrete those cerehral charscters to me, but I wes unsble, during his stay at Mobile, to procnre the brain of a Negro.

Although a Negro-brain Fas not to be obtained, I took an opportonity of eubmitting to M. Agassiz two native-African men for comparison; and be not only confirmed the distinotive marks commonly enumersted by anstomists, but added others of no lese importance. The peculiaritles of the Negro's head and feet are too notorious to requise specification; although, it must be observed, these vary in different African tribes. When examined from behind, the Negro presents aeveral peculiarities; of which one of the mest striking is, the deep depression of the spine, owing to the greater carrature of the ribs. The buttocks are more flattened on the sides than in other races; and join the ponterior part of the thigh almost at a rigbt-angle, instead of a carre. The pelvis is narrower then in the white race; which fact every surgeon accostomed to applying trasses on Negroes will vouch for. Indead, an agent of Mr. Sherman, s very extenaive truss-manufacturer of Nem Orleans, informs me that the average circumference of adalt Negroes round the pelvis is from 26 to 28 inches; whereas whites measure from 80 to 86. The scapula are shorter and broeder. The mascles baye shorter bellies and longer tendones, an is seen in the calf of the leg, the arms, ko. In the Negreas, the mammse are more conical, the areolm mach larger, and the bbdomen projects af a hemirphere. Such are some of the more obrious divergences of the Negro from the white types: others are oupplied by Hemunn Brimeratri, Professor of Zoology in the University of Halle, ${ }^{600}$ whose excellent researches in Brasil, daring foarteen months (1850-'1), were made upon emple materials. Space limita me to the following oxtrict :-
*If we inke a profle riew of the Earopean face, and aketch its onllines, we ehall find that it can be divided by horizontal lines into four equal parts : the first enclosing the crown of the head; the second, the torehead; the tbird, the aose and ears; and the fourth, the lips and chin. Io the antique statues, the perfection of the beauty of which is justly admired, these four parth are exactly equal; in living individuals slight deriations occur, bat in proportion as the formation of the face is more handsome and perfect, these sections approach a mathemstical equality. The vertical length of the head to the cheeks is measured by three of these equs! parts. The larger the face and smaller the head, the more unhnadoome they become. It is expecially in this deviation from the normal measurement that the bumno features become coarae and ugls.
"In a comparison of the Negro head nith this ideal, we get the surprising result that the Fule with the former is not the equality of the four parts, bat a regular increase in length from
above downeard The measorement, made by the help of drainge, ahowed a vary cotsiderable difference in the four bectione, and an increase of that differenoe with the age. This latter peoaliarity is more siguifanat then the mere inequality betreen the foar parta of the head. All soologiats are extere of the great differepoe in the formation of the hoads of the old and the young orang-aztans The oharacteristio of both is the large sire of the whole face, partioularly the jev, in comperieon with the akall; in the young orang-outan, the extent of the latter exceeds that of the jow; in the old it is the rovernes, in consequence of a beries of large toeth having taken the plooe of the earlier manll onen, which reeemble the mill-teeth of timan In foot, in all ment, the proportion between the akull and face ohenges with the matarity of life; but this ohange is not to considersble im the European as in the African I have before me a very exect profle-drawing of a Negro boy, in which I find the total height, from the orovn to the ohin, four inchen; the npper of the four seotions, not quite nine lines; the aecond, one inch; the third, thirtern lines; the foorth, fourteen and ono-quarter lines. The drawing in aboat three-quarters of the natural siso; and, nocordingly, these numbera ahonld be proportionstely increased. The etrongly-marked head of an adult Caffre, a cant of which is in the Bertin Muserm, showis much greator ddference in ith proportions 1 have an eraot draving of it, reduced to trothirda of the natoral size, and I find the various geotions as followe : - the first is 11 linees; the necond, 18; the thiri, 15; and the fourth, 18 lines. This would give, for a foll-sited hoed of $7 \frac{1}{4}$ loches, 154 liness for the orovn; $10 \frac{1}{2}$ for the forehend: 22if for the part inctuding the nose; and 27 lines for that of the jawi and teeth In a normal Earopena head, the height of which is sapposed to be $8 \frac{1}{2}$, esch part generally measorss 2 inches, while the remeloing i mey be variously distrihuted, in fractions, throughout the whole.
"Any difference of mesurement in the European seldom surpaseas a few lines, at the mont: it is imposabile to find a oase of natural farmation where the difference between the parts of the head smounts, as in the Caffre, to one inah. I woold not asterh, thet this enormous difference is a lav in the Negro race. I grant, that the Caffe bas the Negro type io ils excesaive degree, and cannot, therefore, bet taken as a model of the whole African race. But, if the normal differenoe only amounts to half that indicated, it atill remsiza so much larger then in the Europeac, as to be a very signiferant mark of diatinction between the races, and an important point in the settlement of the question of their comparativo mental faculties.
"The pecallar expresajon of the Negro phyaiognomy dependa apon this difference between the four meotions The narrow, fat orown; the low, alating forehead; the projertion of the npper edgee of the orbit of the eye ; the ahort, filt, and, at the lower part, broed nose; the prominent, bat allghty torned-ap liph, whigh are more thick than earred; the broad, retreating chin, and the peculiariy amell eyee, in whioh so little of the white eyobell can be seen; the very small, thiok ears, which stand off from the bead; the short, criop woolly hair, ted the black oolor of the ekin - bre the most marked peculiarities of the Negro hasd and face. On \& close examination of the Negro races, similar differenoen will be found among them, as among Europenna. The western Africans, from Guinea to Conga, have very short, turned-op lips. They are ordinarily very ugiy, and rapresent the parent Negro type. The southera races, which inhabit Loanda and Deoguele, bave a longer nose, with its bridge more elevated and its winge contracted; they have, however, the full lipg while their hair is somewhat thicker. Some of the individuals of these races have tolershly good, agreeable faces A pealiar arch of the forebead, above ita middle, is common among thers. $\rightarrow$
"In the enstern part of Southern Africe, the natives have, instead of the concave bridge of the nose, one more or less convex, and very thick, flat lips, not at all turned-up. The Negroes of the East are commonly more light-colored than thone of the West; their color tends rather to brown than to black, and the wings of their noses are thinner. The peoplo of Mozamhique are the obief representalives of this race - the Caffres also belong to it TLo nose of the Caffre is shorter and broader than that of the others, hat it has the convar bridge. The short, ouriy bair showe no essential devintion. The derk, browniah-black
egebell, which in hardly distlnguinheble from the puppl, remsins conotant. The white of the eje hus in all Negroes a jallowish tinge. The lipe are alwaye browr, pever red.colored; they hardly differ in color from the akin in the neighborhood; towards the interior edges howerer, they beoome lighter, and essume the dark-red fleab-oolor of the inside of the mouth. The teeth are very trong, and are of a giotening whitanest The tongue is of a iarge sixe, and remarkable in thicknees. The ear, in conformity with the nose, is surprislogly emall, and is very anlike the larger, fate ear of the aper. In all Negroes, the external border of the ear is very manh ourred, especielly bebind, which is quite different in the ape. This ourrature of the ear in a marked peodlarity of the human apecies. The ear-lobe to very amall, although the whole ear in exceedingly fexhy.
"The omell ear of the Negro cannot, however, be called bagdiome; its subetance is too thiok for ito sise. The whole ear glven the imprescion of an argan that is atunted in ite growth, and ite apper part standa off to a great diatance fram the head."

It may be objected against perfect exactitude in the above minatix, that races run insensibly into each other; but I contend, on the other hand, that gradation is the law, as illuatrated in our Chapter VI.
Looking for a point of departure, in this brief anatomical comparison of types, one naturally turns to Egypt, where the most ancient and satisfactory materials are found: there lie not only the embalmed bodies of many races, deposited in catacombe several thonsand years old, bat all anatomical facts deducible from these are confirmed hy those characteristic portraits of races, on the mouuments, with which our volume abounde.

And here it is, that homage is more especially due to our great countryman, Mobton, whose Crania Americane and Crania Agyptiaca created eras in anthropology. His acumen, in this department of science, is admitted by those who have atudied his works; for, beyond all other snatomists, he enjoyed the advantage of possessing, in soveral departments, the most complete assortment of akulls in the world. His collections of American and Egyptian crania, especially, are copious, and of singular intereat.

In 1844, Dr. Morton had received " 137 haman crania, of which 100 pertain to the ancient inhabitants of Egypt." $6:$ Seventeen additional of the latter reached his cabinet in the same year; ta the more interesting as they were taken from tombs opened by Lepsius around the pyramids of the IVth dynasty; and, in some iustances, may bave been coeval with those early sepulchres. Throagh the enthusiastic coöperation of his many friends, about twenty-three more mummied heads ${ }^{* / 4}$ were added by 1851: so that his stadies were matured over the crania of some 140 ancient, compared with 37 akulls of modern Egyptian races. Such facilities are as nnexampled as the analytical labor hestowed apon them by the lamented Doctor was conacientiously severe. Possessors of his works, correspondence, and inedited manuscripts, my colleague and myeelf can now speak unhesitatingly upon Morton's testamentary views.

Morton very judiciously remarked, that the Egyptian catacombs do not always contain their original occupants; for these were often displaced, and the tombs resold for mercenary purposes; whence it happens that mummies of the Greek and Roman epochas have been found in those more ancient receptacles, which had received the bodies of Egyptian citizens of a far earlier date. This I conceive to' constitute one of the greatest obstacles to investigation, for, save in four very probable instances, there is no positive eridence that he possessed a single mummy-head beyond the tentb century s. c., although there are tombe that date more than 2000 years earlier, to which some of the Doctor's specimens doubtless belong, even if the proof be defective.

We have shown through the portraits on the monuments that the popalation of Egypt was already a very mixed one in the IVth dynasty; which Lepaius places at 3400 в. c. Dr. Morton confirms this conclusion by his anatoraical comparisons. In the Chania Efgyptiaca be referred his series of Egyptian skulls to "two of the great races of men, the Caucasian and tho Negro:" subdividing the Cancasian class into three principal types, viz.: the Pelazgic, the Semitic, and the Egyptian.
Referring to his work for specification of the others, I confine my ohservations to the last.

[^130](Berber) population: that this stock soon became intermingled with Arab and other Asiatio races of Somitic and Pelaggic type. Therefore, little confidence oan be reposed upon any very minute clagsification of such a mixed people. Ot craniological ability to diatinguish a pure Pelasgic, Semitic, or African besd, ss a gencral rule, I do not doubt; but blended types must ever preaent difioulties. It in enough to know that we possess portraits of Pelaggic, Semitio and Egyptian types $\}$ and that the truthfolness of these portraits is attegted by the cranis of the catacombs.

With all his acuteness and experience in craniology, it is clear that Dr. Morton felt himself much emharressed in making this classification. He has several times modified it in his different published papers; and it is seen above, that in his Egyptian form of crania, he "includes many of which the conformation is not appreciahly different from that of the Arab and Hindoo."

To oxemplify how much caution is necessary in classifications of this kind, it may be proper to refer to Morton's earlier opiniou, that the Austral-Egyptians were greatly mixed with Hindoos, wbose cranis he thinks he can designate; adding, "That there was extensive and long-continued intercourse between the Hindoos and Egyptians is beyond a question," \&c. Now, so great has been the advance of knowledge within the last five years, that, were Dr. Morton now alive, such doctrine would no longer be advocated by bim; because it is generally conceded by Egyptologists-our best authorities-that facts are opposed to any such intercourse, until after the Persian invasion, B. c. 525 .

Dr. Morton classified the crania procured (1838-40) from each locality for his cabinet by my colleague Mr. Gliddon (then our Consul at Cairo), into the following series: -

Firat Serien, from the Memphite Necropolia:


On the frat eeries, Morton remark: - "A mere glance at this gronp of akulls will satisty any one aoccotomed to comparisons of this hind, that most of them possess the Caucasien traits in a most atriking and unequifocal manner, whether we regard their form, sire, or fachal ongle. It is, in fact, questionable whether a graster proportion of heautifully moulded beads wonld be found among an equal nomber of individuals taken at random from any axisting Earopean nation. The entire series oonsists of sixteen examples of the Polasgio, end aryen of the Egyptian form; a aingle Semitic head, one of the Negroid rariesy and ane of mixed conformation. of the antiquity of these remaing there can be no question," 80

Reasons are then adduced for assigning a high antiquity to some of these heads, and, as relates to Mosaic contemporaneousness, they are certainly substantial; but still, science is very exacting; and I doubt that many more than the following ean ascend to times anterior to the Hyksos period, say not earlier than B. c. 2000.

Excluding all bitumenized skulls, which, Bircr has eatablished ${ }^{465}$ cannot be older than Egyptian conquests of Assyria, sixteenth century before Christ, the question stands open in favor of four: viz. -
C. - Three from the front of the Brick Pyramid of Dashour. Being in woollen wrappers, and desiocated rather than embalmed, they correspond with the human fragments found in the Third Pyramid, which, by Bunsen, ${ }^{466}$ are attributed to King Menkera. These may be of the Old Empire.
E. - One from Toora, on the Nile. There are grounds for supposing that the rectangular saroophagi, at this locality, contained the bodies of quarry-men who cat stones for the pyramids.

Another criterion, in behalf of antiquity for these four crania, is the great diminution of animal matter; but, with regard to all the rest, probabilities militate against an age beyond the New Empire; and they range, consequently, from the sixteenth centary before Christ downwards.

Besides the want of any positive data for the remainder, we have the fact stated by Morton, that the great majority of them do not correspond with the Egyptian type in form, size, or facial angle; as will be explained when I speak of the Internal Capacity of Crasia.

Fig. 252.


One head (Fig. 252), with Dr. Morton's commentary, will explain hisidea of the Egyptian type.
"The subjoined wood-cat illustrates a remarkable head, which may serve as a type of the genuine Egyptian conformation. The long, oval cranium, the receding forehead, gently aquiline nose, and retracted chin, together with the merked distance between the nose and mouth, and the long, emooth hair, are all oharacteristic of the monumental Egyptian."

The Crania AEgyptiaca ${ }^{467}$ here presents an "Ethnographic Table of 100 Ancient Egyptian Crania," arranged in the first place, according to their sepulchral localities; and, in the second, in reference to their national affinities - but, while preserving the subjoined comments, I prefer the substitution (overleaf) of a later and more extended synopsis.

[^131]twentieth of the whate is composed of hesds in which there exista a trace of Negro and other exotic lineage; that the Negroid conformation exists in eight instances, thos constitating abont one-thirteenth part of the, whele; and finally, that the series contalna a single unmixed Negro." [Vide, ante, p. 267, Fig. 193 - the Negress.]
I have already mentioned, that, subsequently to the appearance of the Crania Egyptiaca, a second lot of antique akulle arrived from Egypt. They had been collegcted by Mr. Wm. A. Gliddon, frorn some of the Memphite tombs opened by the Prussian Mission, in 1842-'3; and, although these heads may be a secondary or tertiary deposit in these sepulchres, which contained fragments of coffins and cerements as late as the Ptolemaic period, yct among them, as Morton has well observed [supra, pp. 318, 319], there are, very probably, some specimens of the olden time. Mr. W. A. G. took the precaution to mark, upon those skulls identifiable as to locality, the cartouches of the kings to whose reigas the tombs belonged; and the hoary names of Assa, Shors, and Abiv (Heraku), ${ }^{4 *}$ earry us back to the IVth and VIth dynasties, or about 3000 years before Christ

The reader may be gratified to perase a condensation of Morton's digest (October, 1844) of their craniological attributes; and I havo the mors pleasure in reproducing his words, as they may ho unknown or inaccessible to the majority of ethnologists.
"The following is an ethnographic snalysis of this series of ersais: -
Egyption form...................................................................... 11
Egyptien form, with traces of Negro lineage............................. 2
Negroid form....................................................................... 1
Pelesgle form............................................................................... 2
Bemitic form............................................................................... 1
$\overline{17}$
" Rayazce.-1. The Eyyptian form is admirsbly charscterized in eleven of these heeda, and correnponds in avery partioular with the Nilotto phyaiognomy, an indicated hy monumental and beptolohral evidencea in my Crania Agyptiaca; vis., the amall, long, and nerrow head, with e somewhat receding forebead, narrow and rather projecting face, and delieacy of the Fhole osteological atractare. No bair remains, and the bony mestus of the car corresponds with that of all other Caucasian nations.
" Two other heads present some mixture of Negro liseage with the Egyptian. . . .
"Of these thirfeen creoje, eleven are adult, of which the largest hes an internal eapacity of 93 oubic inches, and the smallest 76 - giving a mean of 86 cubio inches for the size of the brain. Thin measurement exceeds, by only three cubic inches, the average derived from the entire aeries of Egyptian heads in my Crania Agyptiaca.
${ }^{4}$ The facial angle of the adalt heeds gives a mean of $82^{\circ}$; the largest rieing as high 2 a 86 ${ }^{\circ}$, and the smalleat being 780. Two other beads are those of children, in whom the Egyptian conformation in perfech, and these give, reapectively, the large facial angle of $89^{\circ}$ and 910. The mesh adalt angle is greater than that given hy the large series measured in the Cramia Esyptiaca. . .
-1 2. The Negroid head, ss I have ulsewhere explsined, is a mixture of the Caucasian and Negro form, in which the lettor predominates. . . . This head stroogly resembles those of two modern Copts in my possession. It gives 81 cabic inches for the aise of the brain, sod a facial angio of $80^{\circ}$. . . .
"Of two Pelaggic heads, one is perfect, and well characterized in most of its proportions. It has an internal capacity of 93 cubic inches, and a facial angle of $80^{\circ} \ldots$.
"The solitary Semitic head bas rather the common Arab than the Hebrew east of featurea It measures internally 87 cubic inches, and has a facial angle of $79^{\circ}$.
"The ages of the individuals to whom these seveateen akalla pertained may be procimately slated as follows: $5,7,18,20,20,25,30,40,40,40,60,50,50,50,50,50,55$."
"The result derived from this egries of crania sublain, in a most gratifying manner, those obtained from the greater coliection of 100 skulls sent me from Egypt, by my friend Mr. $\mathbf{G}$. R. Gliddon, and which have afforded the materials of my Crania Agyptiaca; and, withoat making further comparisons on the present occasion (for 1 design from time to time to resume the subject, as facts and materials may come to my bands), I shall merely aubjoin my Ethnographic Table from the Crania Legyptiaca, so exteoded sa to embrace all the ancient Egyplian shalls now in my poseesaion.

Ethnographic Table of one hundred and seventeen Ancient Egyptian Crania.

| Sepulchral Loralldes. | No. | Fsyptin. | Pelaggic | Semitic. | 31xed. | Negrold. | Megri | 14-2 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Memphis................... | 26 | 7 | 16 | 1 | 1 | 1 | $\cdots$ | ... |
| Ghizeh...................... | 17 | 11 | 2 | 1 | 2 | 1 | $\ldots$ | -. |
| Masbdeh ................... | 4 | 1 | 1 | $\cdots$ | $\cdots$ | 2 | $\cdots$ | 4 |
| Abydos..................... | 4 | 2 | 1 | 1 |  |  |  |  |
| Thebes ..................... | 55 | 30 | 10 | 4 | 4 | 5 | ... | 9 |
| Ombos .................... | 3 | 3 | $\cdots$ | ... | $\cdots$ | $\cdots$ | $\cdots$ | $\ldots$ |
| Phileo ....................... | 4 | 2 | 1 | $\ldots$ | ... | ... | 1 | $\cdots$ |
| Debod ...................... | 4 | 4 | ... | ... | $\cdots$ | ** | ... | ... |
|  | 117 | 60 | 31 | 7 | 7 | $\theta$ | 1 | 9 |

## Ifternal Capactity of the Cranium.

The part of Dr. Morton's work bearing this superscription, I regard as one of his most valuable contribations to science, and it demands a close examination.
"As this messurement," says he, "gives the gize of the brain, I have ohtained it in all the crania above sixteen years of age, unleas prevented by fractures or the presence of bitamen within the 始ulls; and tbis investigation hes confirmed the proverbial fact of the general smallness of the Egyplian head, at lepat as observed in the catacombs south of Yesphis. Thas, the Pelasgic crania, from the latter city, give an average internal capacity of 89 cuhie inches; those from the ssme group from Thebes, give 86. This result is somewhat below the average of the existing Cancesian nations of tbe Pelasgic, Germanic, apd Celtic families, in which I find the brain to be about 93 cahic inches in bell. It is elso interesting to observe that the Pelasgic brain is mach larger than the Egyptien, which last gives an average of but 80 cubic inches; thas, 68 we shall hereafter see, spproximating to that of the Indo-Arabian nations" 66
"The largest head in the series measures minety-seven cubio inches: thin ocears three times, and alpaya in the Pelasgic group. The amallest cranium gives bat sixty-eight cubio inches; and this is three times repented in the Egyptian hends from Thehes. Tbis last in the smallest cravium I bape met with in any nation, with tbree exceptions - 8 Hindoo, 4 Peruvian, and a Negro."
Morton then reduces his measurements of 100 ancient Egjptian crania into the subjoined tabular form:-


An examination of this table again brings to view the fact that the Pelasgic heads (which are foreign to Egypt, and possibly belouging to some of the socalled Hykshos,) predominate at Memphis; the point which invaders from Asia would first reach,- and where they would be most likely to settle in ancient, no less than in present, times. The Pelasgic are here as 14 to 7, compared with the Egyptian form.
[Thus, Cairo, on the eastera hank, has hut replaced Memphis on the weatera; at the eame time that Tanis (Zoan), Bubastis (Pibeseth), and Heliopolis (On), owing to their proximity to the lathmus of Suex, ever thronged with Asiatio foreigners. Here too, after the pyramidal period and the XIIth dynasty, was the land of Goshen-also, the shepherdceapital, Avaris; the frontier province whence issued, with Israel's host, that GouM-ERaD (exnctly the name as Goum-d-Arab), "Arab-levy," 400 mistranalated " mixed maititude;" and the scene of incestant Arabian relation, from Necho's canal down to Omar's, from the wata of Sesoatris down to Mohammed-Ali's. In Coptio times this eastern province, now the Sherqueyeh. was the Tarabia (the-Araby); in Saracenio, the Khauf; 471 and here, at this day, the modern Fellahs bre almost pare Arabe.-G. R. G.]

At Thehes, higher up the river, the reverse is observed; the Egyptian form prevails over the Pelasgic in the proportion of 25 to 5 . It is evident, also, that the size of the brain in the Pelasgic heads is much greater than that of the Egyptian type; aud at Ombor, and Debôd in Nuhia, the crania are still much smaller than those of the Egyptians. Such facts afford much plausibility to the idea, that the Pelasgic, as Dr. Morton terms them, or at least some large-headed superior race, had come into Egypt across the Isthmus of Suez, had
taken possession of the country, and probably drove multitudes of the native Egyptians before their invading swanms. These Pelaggic hends, as before stated, resemble greatly the population of ancient Hellas, of the heroic age; and instead of migrating to Greece from Egypt in ancient times, similar tribes may have branched off from their original abode in Asia direct to the Peloponnesus. The latter view is atrengthened by the fact that, in Greece, there are no traces of Nilotic customs, hieroglyphic writing, style of art, \&c.; which would have been the case had that conntry been colonized by Egyptians.

These anatomical deductions, then, establish conclusively that, in proportion as we ascend the Nile through Middle Egypt, the Asiatic elernents of the ancient crania diminish, to become replaced, after pase ing Thebes, by others in which African comminglinge are conspicuous. Craniology, therefore, testifies to the accaracy of Lepsius's opinion, that the Hyksos invasion forced a large body of the Egyptians to emigrate to, and sojourn for a long period in, the Nubias. ${ }^{10}$

One grand difficulty, however, still remains with regard to the origin of the Egyptian type, as formerly underatood, but since difavowed, by Morton. Thousands of paintinge and sculptures on the monuments prove that ancient Egyptian faces often present a strong resembiance to the Grecian profile; but, according to the preceding table, there is a difference of eight cubic inches in the size of the crania of the two races! Were not the Egyptians, then, such as are represented on the monuments of the XVIIth and succeeding dynasties, a mixed Pelaggic and African race?

To the authors of this volume, in common with Morton's amended views, as before and finally set forth [oupra, p. 245], the Eggptians had heen once an aboriginally-Nilotic stock, pure and simple; upon which, in after timea, Semitic, Pelaggic and Nubian clements became engrafted.

Our comments on monumental iconography [Chapters IV., V., VII., VII.] have demonstrated that almost every type of mankind, of northwestern Asia, northern Africa, with some of sonthern Europe, is portrayed so faithfully, as to leave no doubt of the primitive existence of distinct races; some of wbich we are enabled to date back to the IVth dynasty, or 3400 years b. c. 'But' it has been objected that the drawing of the Egyptians was imperfect or conventional, and therefore not to be relied upon. Such assertions, if again obtruded at the present day, would merely argue small acquaintance with the laws of Egyptian art; ${ }^{\text {th }}$ because, however false mny he the canonical position given to the ear, however defective the non-foreahorteniag of the eye, I defy Benvenuto Cbluiny himself to carve
profiles more ethnologically-exact than those bas-relief effigies we possess, in myriads, from the IVth down to the XXIId dynasties. But, I proceed to give copies of various crania from the catacombs; which most triumphantly coufirm all preceding asseverations concerning the accuracy of these Egyptian portrait-painters. The materials are drawn mainly from the collection of Morton, which I have examined carefully for myself. These heads, too, having been 'obtained in Egypt, direct from the tombs, by one of the authors of this volume, I can speak authoritatively, because all attendant circumstances are known to me.

[^132]Fig. 258.

"A beantifully-formed head (Fig. 254), with a forehead, high, full, and nearly vertical, a good coronal region, and largely-developed occiput. The nasal bones are long and straight, sud the whole facial structure delicately proportioned. Age between 80 and 85 years. Internal capacity 88 oubic inches; facial angle $81^{\circ}$. Pelangic form." ${ }^{475}$
"Skull of a woman of twenty years (Fig. 255)? with a beautifully-developed forehead, and remarkably thin and delicate structure throughout. The frontal suture remains. Internal capacity 82 oubio inches; facial angle $80^{\circ}$. Pelasgic form." ${ }^{478}$
"Head of a woman (Fig. 256) of thirty, of a faultless Caucasian mould. The hair, which is in profusion, is of a dark-brown tint, and delicately curled. Pelasgic form," from Thebes.

The following series (Figs. 257, 258, 259, 260, 261), illustrates the Egyptian form.

Fia. 256.477


Fig. 254.


Fig. 255.



"An elongated head, with a broad, receding forehead, gently squiline nose, and retracted chin, together with the marked distance between the nose and mouth, and the long, smooth hair, are all characteristics of the monumentel Egyptian."
Of the Semitic form, foregoing chapters have supplied many portraits. One, out of numerous mummied crania, will suffice to illustrate its existence in the sepulchres of Egypt.
"This head" (Fig. 262), says Morton, " possesses great interest, on account of its decided Hebren features, of which many exemples are extant on the monuments" of Egypt; and we have already compared it with those of Assyris [supra, p. 116.]
"The colossal head" from Nineveh proclaimed the existence of a higher order of Chaldaic type upon Assyrian sculptures. The reader will be gratified to observe how faithfully ancient Chaldæa's tombs testify to the exactitude of her iconographic monuments; at the same time, he will perceive how art and nature conjointly establish the precision of modern anatomy's deductions.

The following sketch (Figs. 263 and 264) is a faithful reduction of an Assyrian skull, recently exhumed by Dr. Layard, from one of the ancient mounds, and now deposited in the British Museum. Its fac-simile drawing has just been most kindly sent me from England, by Mr. J. B. Davis, F. S. A., one of the authors of the Crania Britannica (a great work, which is shortly to be published). I have no history of the skull, beyond the facts aboverstated; but it is believed to be the representative of an ancient Assyrian. Speaking of the drawingy, Mr. Davis says in his letter to me, "they are of the exact size of nature, and very faithful representations of the cranium."

It is much to be regretted that we have as yet no series of ancient skulls from Nineveh and Babylon, as they would throw great light upon the early connection between the racea of Egypt and Assyria.

This skull is very interesting in several points of view. Its immense size confirms history by showing that none but a high "Caucasian" race could have achieved so much greatness. The measurements taken from the drawing are -

Longitudinal diameter, 74 inches.

| Transverse | " | $5 \frac{8}{8}$ | " |
| :--- | :---: | :---: | :---: |
| Vertical | " | $5 \frac{1}{4}$ |  |

It is probable that the parietal diameter is larger than the measurement here given; because, possessor of only front and profile views, I think these may not express fairly the postesior parts of the head. There are but two heads in Morton's whole Egyptian series of equal size, and these are "Pelasgic;" nor more than two equally large throughout his American series. Daniel Webster's head measured -longitudinal diameter, 77 inches; transverse, $5 \frac{3}{4}$; vertical, $5 \frac{1}{2}$ : and comparison will show that the Assyrian head is but a fraction the smaller of the two.

This Assyrian head, moreover, is remarkable for its close resemblance to several of Morton's Egyptian series, classed under the " Pelasgic form." It thus adds another powerful confirmation to the fact this volume establishes, viz., that the Egyptians, at all monumental times, were a mixed people, and in all historical ages were much amalgamated with Chaldaic races. Any one familiar with crania, who will compare this Assyrian head with the beautiful Egyptian series lithographed in the Crania Egyptiaea, cennot fail to be struck with its resemblance to many of the latter, even more forcibly than anatomists will, through our small, if accurate, wood-cuts.

To vary these illustrations, while confirming the deductions already drawn, I borrow two admirably-preserved heads (Figs. 265 and 266)

Fig. 265.

from Champollion-Figeac, ${ }^{48}$ who has reduced them from the folioplates of Napoleon's Description de $l^{\prime}$ 'Egypte. Fig. 266 yields the perfect Egyptian type.

From the mummy itself, now possessed by the University of Louisiana, at New Orleans, (and which I have personally scrutinized,) I present the most valuable specimen among all known to me; inasmuch as it is one of the extremely rare instances where the date of a deceased Egyptian can be positively determined by documentary evidence.


Portrait (Fig. 267) of the Mummy of Gor-thorin-Ausich, "Chief of the Artificers," who died in the "Year $X$." of the reign of Osorkor III. $A$ man between thirty and forty years of age, who was alive in the year B. c. 900 ; or, before a single stone yet discovered at anciens Babylon was inscribed whth cuneatic oharacters. Here is the history of its transmission to this country :-

In 1845, Mr. Gliddon intimated, from Paris, to his friend Mr. A. C. Harris, the most influential resident in Egypt, his desire to procure a series of funereal antiquities to illustrate his Lectures in the United States. The letter fortunately overtook Mr. Harris during one of this gentleman's archopological visits at Thebes; where accident enabled him to obtain one admirable mummy, from the well-known Werda, in perfect condition. It was conveyed in his own yacht to Alexandria, with a dozen other human mummies collected at Thebes, Abydos, and Memphis, intended for Mr. Gliddon.

In 1846, after fruitless efforts to ship them, four were sequestrated at the Alexandrian Custom-house: Mohammed Ali, since 1885, having forbidden the exportation of Antiquities by any but agents of European powers. ${ }^{484}$ An official application, made by the United States' Consul to the Vioeroy failed; and, in 1849, these four mummies were found to have perished, through damp, in the Custom-house. Happily, Mr. Harris had preserved the most valuable specimen at his own residence.
In 1848, after Mohammed Ali's superannuation, permission to export Mr. Gliddon's colleotion was refused by Ibraheem Pasha. On his death, 1849, Mr. Harris's personal claims upon the courtesies of the Government obtained leave from Abbase Pasha; and the mummy, (with two others divested of their coffins), was forwarded to Liverpool, where the influential complaisance of Messrs. Baring Brothers obtained their transhipment to the United States, free of examination at the Quarantine and Custom-house. At New York, similar facilities were accorded to Mr. R. K. Haight; and, after five years of disappointments, Mr. Gliddon received these specimens in November, 1849.
Opened at Boston, June, 1850, in the presence of two thousand persons, by Prof. Agassiz, and a committee of sixteen of the leading physicians, these coffins yielded the embalmed corpse of the Theban Priest Got-thothi-Auner, (latinice, "Dixit Thoth, vivat!") who died In the tenth year of King Osorkon III., early in the ninth century b. c., or about 2750 years ago. The amusing equivoque of gender that occurred at its opening received satisfactory
elucidation in the " Letter from Mr. Gliddon about the Papyrus found on the Boston Mummy," pablished in the Boston Evening Transcript, August 21st and 22d, 1850. A copy of this article is appended to the mummy, which, with all its documentary cerements, now lies open to inspection at the Anatomical Museum of the Louisiana University.

Fao-similes of all the hieroglyphical insoriptions on this mummy were forwarded by Mr. Gliddon to Mr. Birch; and the only material emendation of the former's readings, added by this erudite hierologist, is, that the legend on the papyrus designates the corpse as that of the "Chief of the Artificers of the abode of Ammon," i. e. Thebes.

Submitted, at Philadelphia, to the scientific sorutiny of the late Dr. Morton, this mummied body was not only prohounced to be "unequivocally identified with the reign of Osorkon III., by finding the cartouche or oval of that king stamped, in four different places, on a leather cross, placed diagonally on the thorax in front;" but the same' anthority also declares, "there are 180 embalmed Egyptian heads in the collection of the Academy, but none of them can be ever approximately dated; whence the great interest that attaches itself to the present example." 428 And finally, on the 28d of January, 1852, the whole of these archwological facts have been confirmed, at New Orleans, by the personal investigation of Monsiear J. J. Ampère, whose opinions in Egyptology are decisive.488 Mr. Gliddon pointed out to me, on this corpse, the only absolute confirmation, he says, of Scripture, with which long studies of Egyptian lore have made him personally aequainted. All male mummies comply with the ordinances of Genesis xli. 14; and with Gen. xvii. 11; Exod. iv. 25but Got-thotin's illustrates the acouracy of Exszasl's description of an "Egyptian"-xvi. 26; and xxiii. 19, 20.

These Figs., 268 and 269, are copies of the mummy-asses. The froce of the inner one is gilt; but bitumen had obliterated the legends.

That the influx of Asiatics into the Valley of the Nile commenced long before the foundation of the Empire under Menes - that is, prior to в. c. 4000 - there can be no further question; and that amalgamations of foreign with the Nile's domestic races commenced at a pre-historic epoch, is now equally certain. Hence it is evident, that it must be often impossible to define some crania of these blended Egyptian races with precision, so great is the intermixture of primitive types. The facts however, drawn by Morton from the monuments and crania, prove, that the Egyptians-proper possessed small, elongated heads, with receding foreheads, and an average internal capacity of 80 cubic inches. Such view is fortified by the resemblance of this type to the modern native races of Egypt and surrounding countries ; as the Fellahs, the Bedawees on both sides of the river

- and in the western oases, the Nubians, Berbers, \&ic. Their skulls have been already figured [supra, pp. 226, 227].


## African-Negro Crania.

Our Chapter VIII. has already shown that Negroes are faithfully delineated on the monuments of the XVIIth dynasty, or B. c. 1600 --1700 ; and that, although we produced no positive Nigritian portraits

Fig. 270.487


Bushman.
Fic. 271.488


Mozambique.

Fig. 272.480
 of earlier date, yet it is conceded that Negro tribes were abundant, along the Upper Nile, as far back as the XIIth dynasty; and ergo, they must have been also contemporary with the earliest settlers of Egypt.

Although Negro races present considerable variety in their cranial conformations, yet they all possess certain unmistakeable traits in common, marking them as Negroes, and distinguishing them from all other species of man. Prognathous jaws, narrow elongated forms, receding foreheads, large posterior development, small internal capacity, \&c., characterize the whole group craniologically.

A few examples suffice to give the reader a good idea of their prominent characteristics, and will enable him to appreciate cranial distinctions between the varied Negro and other African types. (See Figs. 270-275.)

It cannot fail to be noticed that the Caffre and the Ashantee exhibit far higher conformations than the rest; in accordance with recent historical
events. They approach the Foolah "gradation."

Fig. 274.01


Fig. 275.42


Mummied Negress.

Figure 276 is the portrait of a celebrated Hottentot female, which (seemingly, to Europeans) presents an extraordinary deformity. Some writers affirm that her bump, or hump, is an accidental freak of nature, or a peculiarity resulting from local causes. It is furthermore asserted, that such posterior development cannot be characteristic of any special race. But, while all these explanations are nullified by the fact that, around the Cape of Good Hope (and among Hottentot and Bushman races alone) similar retrotuberance is still quite common, it should not be forgotten that the proclivities of exotic Dutch Boors, combined with the action of local aborigines, have already modified the Hottentot and Bushman, and consequently divested both, to some extent, of their pristine uniformity. Rimter [supra, p. 380] shows that Arabian single, and Bactrian double-humped camels (although distinct "species"), when bred together, produce offspring sometimes with one, at others with two humps; and as the Hottentots are now a very mired race, why should not the bump, once undeviatingly characteristic of the good old race, be frequently absent, or else diminished in volume, in the present generation?

That the laws governing the phenomens of Nature, if as yet

Fig. 276.498


Hottentot Venus. often inscrutable, are nevertheless perdurable, may be exemplified, monumentally, even through instances of idiocy or lunacy. Rosellini's plates, compared with Egyptian mummied skulls, and examined by the keen eyes of such comparative anatomists as Morton, furnish evidence that the natural deformities of humanity were appreciated, thousands of years ago, by Nilotic art; because the "sagacity of the Egyptian artist has admirably adapted this man's (Fig. 278) vocation to his intellectual developments, for he is employed in stirring the fire in a blacksmith's shop." 494

Fig. 278.


Sculptured Fool.

Fig. 277.


Mammiod Idlot.

## Ockanic Racks.

Geographers divide our globe into Europe, Asis, Africa, America, and Oceanica This last region has been subjected to many systematic divisions by different writers; but M. Jacquinot's are both simple and comprehensive:-

[^133][Ethnogrephic knowledge of the whole of them does not antedste the sintenth centary. Thas, the ardstence of Maley tribes wes unknown to Earope befort their dietovery by Lopes de Seqqeirs, in A. D. 1510, followed by Albuquarque about 1518. Hicronemians were fith seen by Ferdinend Magelheens in 1620 ; Polywaios by Ray Loper de Filleloboe in 1548 , and by Alvaro de Mendage in 1695: Thile Abel Jenaen Teamen, in 1642-8, sailed aroand Yen Diemea's Lend, eseing " no people, but some amoake," and aftartards hed tome of his men killed by natives of New Zealend-which seems to be the fret historio notioe of $A \boldsymbol{u}$ tralian families. When we reoollect that the meond "vogage aronnd the world" wat not undertaken by Franois Drate hefare the year 1657, sse it will be oomprohended at once how very recent is the information which ethnology poseesess of Malayn, Polynenian, and Australian types; whose separsto existenoe, noverthelest, must be as ancient as that of the animals and plants of their reapeotire prorinces of arestion-G. B. G.]

As every claseification of these races is wholly arbitrary, and inasmuch as any attempts at emendation would here be futile, I shall merely select for illastration a few of their more prominent types. We have shown, from the monuments of Egypt and other sources, that various distinct races of men atood, face to face, 5000 years ago, and that no physical causes have eince tranaformed one type into another. We may, therefore, reasonably assume that these Ocennic races have ever been contemporary with others elsewhere, and were created where originally found by modern navigators. There is a more or less intimate connection, it is asid, among most of the Polynesian tongues; bat the Australian, whose type is altogether peculiar, Prichard declares, "is the only one whose language is known to be distinet."

## Australians.

Australis comprises such immense superfictes as to desorfe the aame of a coutinent; and, consequgntly, ita inhabitanta present conaidersble diversity of types. This is inferred from the contradictory accounts of travellers, who have described theon at diferent geographical points. It should be remarked, that the nadves of Anstralia, Van Diemen's Lend, Mer Uuinen, avi sowe other of these inlands, elthough difering in many particulate, are at mon
black in complexion as to have been termed Oceanic Negroes. They partake of the cranial conformation of African Negroes; displaying, like them, narrow, elongated heads, defective foreheads, small internal capacity, projecting jaws, \&c.

Capt. Wiless, commander of the late U. S. Exploring Expedition, thus describes them:-
"The natives of Australis differ from any other race of men in features, complexion, habits, and language. Their color and features assimilate them to the African type: their long, black, silky hair has a resemblance to the Malays. The natives are of middle height, perhaps a little above it; they are slender in make, with long arms and legs. The cast of the face is between the African and the Malay; the forehead unusually narrow and high; the eyes small, black, and deep-set; the nose much depressed at the upper part, between the eyes, and widened at the base, which is done in infancy by the mother, the natural shape being of an aquiline form; the cheek-bones are high, the mouth large, and furnished with strong, well-set teeth; the chin frequently retreats; the neck-is thin and short. The color usually approaches a deep umber, or reddish-black, varying much in shade; and individuals of pure blood are sometimes as light-colored as mulattoes. Their most striking distinction is their hair, which is like that of dark-haired Europeans, although more silky. It is fine, disposed to curl, and gives them a totally different aspect from the African, and also from the Malay and American Indian. Most of them have thick beards and whiskers, and they are more hairy than the whites."

Jacquinot, of the French Exploring Expedition, gives a very similar description, except that "leur couleur stait d'un noir fuligineux assez intense." 47
M. de Fbeycinet, who passed considerable time at different points of the country, describes these tribes in the same manner. He says: "The people everywhere assimilate. Their color varies from intense black to reddish black. Their hair is invariably black and smooth, though undulating, and never has the woolly appearance seen in other races." 48

"This man (Fig. 279), whose name was Durabub, was killed in a fray, after having pimself killed two savages of a hostile tribe, A. D. 1841. His skull (adds Morton) is the nearest approach to the orang type that I have seen. Etst. 40. J. C. 81."

Fig. 281 is from $l a$ Baie Rafle, coast of New Holland; taken from the Atlas of Du moutier.


Fig. 282.502


Fig. 282 - "Natif d'A mnoubang, Ile Timor."
To these heads from New Holland and the Island of Timor many others might be added, from the various works on the Physical History of Mankind. Our series, however, supplies fair specimens of these races, who represent the lowest grade in the human family. Their anatomical characteristics are certainly very remarkable. While, in countenance, they present an extreme of the prognathous type hardly above that of the orang-outan, they possess at the same time the smallest brains of the whole of mankind; being, according to Morton's measurements, seventeen cubic inches less than the brain of the Teutonic race. In my own collection I have a oast of the head figured above in Morton's catalogue; and, decidedly, it exhibits more of the animal than of man.

## Tasmania, or Van Diemen's Land.

It is certainly an extraordinary fact, that this comparatively-small island, merely separated from Australia by a narrow channel, should be occupied by people of entirely diffe-
 rent type. The tribes of New Holland, it has been just set forth, are more or less black, but possess fine, straight and silky hair; while their neighbors of Tasmanis are thus described by Capt. Cook: -
"The oolor of the people of Van Diemen's Land is a dull black, and not quite so deep as that of the African Negroes. The hair is perfectly woolly. Their noses, though not flat, are broad and full. The lower part of the face projects a good deal."

The reader can seleot from the following 4 samples (Figs. 283-286) which he considers the worst expression of the most inferior grades of hamanity.
Fig. A from Martin, and B from Dumoutier, compare well with the heads of Australians; and not less disagreeably.

## Papuas, of New Guinea.

New Guinea is the largest of all these islands after New Holland. Numerous navigators, the old as well as the living, have described this people at various localities on the coast

The tribes appear everywhere to be substantially the same: skin more or less black, features Negro, hair woolly and formed into enormous tufts.

This (Fig. 287) is a fair specimen of the inhabitants of New Guinea, which not only presents the Negro complexion, and features like the Australian, but also the woolly hair. We may consider this skull an average type of the Papuan race.

## Harfours, or Alforians.

In Malaysia, under the names of Harfours, Alfours, Haraforas, \&c., have been designated the inhabitants of the

Fig. 287. ${ }^{507}$


New Guinea-man. interior of the large islands, or mountain regions. But great diversity exists in the type of these families; and much confusion in descriptions. They seem generally to be a true Negro race, of the lowest order; and from their position in the interior, no less than from their degraded condition, they are, most probably, the true aborigines of many of these islands, who have been iriven back by immigrants from other islands. Jne skull (Fig. 288) sufficiently represents them.

I shall not overload our pages with detailed descriptions of the various Oceanic Negro types inhabiting the smaller islands. Msterials lack for satisfactory anstomical comparison. There is to be found in print very little to aid the craniologist, beyond the magnificent plates of Dumontier, from which we have extensively borrowed; but his text has not yet been published; nor do drawings alone farnish the information required. All travellers and every anatomist agree, however, in placing these Oceanic Negroes at the bottom of the scale of races; and, at the same time, the Alforians are described as totally different from every group of

Fia. 288.508


Alfour. Negroes on the African continent.

Therefore, the supposition of any community of origin between these Australasians and the true Nigritians - neither of them migratory races, and widely separated by oceans would be too gratuitous to merit refutation. So also would be any hypotheses based upon climatic influences, when the zones of their respective habitats are as opposite in nature, as the races of Malaysis are distinct from those of Africa, and, at the same time, geographically remote.

## Polynesian Race.

An elaborate account of this race may be found in Prichard's "Physical History of Mankind;" but I rely more particularly on the later work of M. Jacquinot; inasmuch as it is, in every respect, deserving of confidence and admiration: coming, besides, from a naturalist who has scen these tribes in their various localities:-
"The Polynesian race is well marked and distinct; it inhabits all Malaysia and the greater part of Polynesia, comprising the numerous islands separated by d'Urville under the name of Micronesia.
"The general characters of this race may be thus given:-Skin tawny, of a yellow color washed with bistre, more or less deep; very light in some, almost brown in others. Hair, black, bushy, smooth and sometimes frizzled. Eyes black, more split than open, not at all oblique. Nose long, straight, sometimes aquiline or straight; nostrils large and open,
which makes it sometimes look fist, especially in women and children; in them, also, the lips, which in general are long and curved, are slightly prominent. Teeth fine; incisors large. Cheek-bones large, not salient; enlarging the face, whioh, nevertheless, is longer than wide."

Blumenbach describes the cranium thus:- "Summit of the head slightly contracted; forehead rather convex; cheek-bones not prominent; superior maxillary bone rather projecting; parietal protuberances very prominent."

Jscquinot declares that these characters are constant in all the individuals of the Polynesian race ; and he says his description is confirmed by Forster, ${ }^{509}$ Moerenhout, ${ }^{510}$ Ellis, ${ }^{511}$ Quoy et Gaimard, and others.

Most authors recognize three distinct races among the Polynesians : independent of those just described, they designate the inhabitants of the Carolines, or Micronesians, and the Malays; but M. Jacquinot regards this division as unfounded in nature. That there is considerable variety of types in these scattered islands is admitted; and the question reduces itself to, whether these islanders are really of one stock or of several. Anthropology perceives no reason for supposing that they are all descended from one pair; and I therefore regard them as a group of proximate races, like the numerous other groups already signalized on the earth's superficies. They have been separated, by some writers, on philological grounds; but I hold it to be a demonstrable, even if not demonstrated fact, that zoological characters are far more reliable than mere anslogies of language; which (critically examined) are frequently less real than fanciful.

After surveying the Polynesian race in detail, through all the islands, from the Philippines to New Zealand and the Sandwich, Jacquinot concludes:-
"Thus this race is found spread from $20^{\circ} \mathrm{N}$. lat. to $50^{\circ} \mathrm{S}$. lat.; that is to say, it ocenpies a space of about 8500 miles of latitude by 4500 of longitude. Certainly, within these extremes, the climate offers numerous variations. Some of these islands are fiat, others mountainous; some are very fertile, others sterile; and, notwithstanding all these circumsfances, the Polynesians remain the same everywhere. They are all in the same degree of civilization, of industry and intelligence; their color is not more dark under the equator than without the tropics-and everywhere we find some more brown than others.
"We repeat that, before such facts fall all theories respecting the influence of atmosphere and of climate.
"They prove also, in the clearest manner, that the Polynesians cannot be a hybrid race; because, if it were so, they could not preserve, in the numerous islands, a homogeneousness of character so perfect; there would necessarily be mixed breeds in different degrees, and showing every shade and grade. The Polynesian race then is primitive."

The original of Fig. 289


Fig. 290.
 died in the Marine hospital at Mobile, while under the charge of my friends Drs. Levert and Mastin ; and the skull was presented to Agassiz and myself for examination, without being apprised of its history. Notwithstanding there was something in its form whioh appeared unnatural, yet it resembled more than any other race the Polynesian; and as such we did not hesitate to class it. It turned out afterwards that we were right; and that our embarrasement had been produced by an artificial flattening of the ocoiput; which process the

Islander, while at the hospital, had told Drs. Levert and Mastin was habitual in his family. The profile view displays less protaberance of brain behind, and the vertical view more compression of occiput, than belongs generally to his race; but still there remains enough of cranial characteristics to mark his Polynesian origin; even were not the man's history preserved, to attest the gross depravity of his animal propensities.

The first of these heads (Fig. 291) is an ancient Guanche from the Canary-Isles; and, though out of place here, is one of Dumoutier's series.Besides being itself interesting, it contrasts still more powerfally with American aborigines.

The other five (Figs. 292-296) are Polynesians from different islands, presenting a strong family likeness to each other-reced-- ing forehesds; elongated heads; projecting jaws, ponderous behind, \&o.

Fig. $291 .{ }^{512}$


Fig. $292 .{ }^{513}$


Nouke-Hivalav.

Fia. 298.514


Tailian.
Fig. $295 .{ }^{516}$


Fejee-Ielander.


Tonga-Islander.
Fig. $296 .{ }^{517}$


Sandwich-Iclander.

I have pursued the Oceanic races, somewhat in detail, from the Indian seas across the whole extent of the Pacific Ocean to the shores of America; where another group of races, of entirely different type, remains yet to be described. My object in this tedious voyage has been, to place before the reader such material as might enable him to judge whether there is any proof, in this geographical direction, of migrations from the Old to the New World, that could account for its primitive manner of population. We have beheld, during our Oceanic travels, very opposite types in localities near to each other,
as well as many distinct languages; and we have seen the same type as that of the Polynesians scattered throughout all climates, and yet speaking dialects of the same longuage.

It now remains to he shown that, (with perhaps some very partial exceptions along the Pacific coast, ) the types of America are entirely distinct from those of Oceanica; and that American langrages, civilizations, social institutions, \&c., are utterly opposed to Oceanic influence, while differing, too, amongst each other. It is from the so-called Polynesian and Malay races that many writera have derived the population of America; yet in no two types of man do we find cranial characters more widely different. The hends which we have copied from the Attas of M. le Docteur Dumoutier, (who accompanjed M. Jacquinot in the Exploring Expedition of 1837-'8-9-'40, of the Astrolabe and Zelee, sent out by the Freach government, ) were all taken by the daguerreotype process, either from nature or from plastercasts; and are therefore not only beautifully executed, but perfectly reliable. To the eye of the anatomist, these heads will be found to present a most striking contrast with those of the ahoriginal Americans which we are about to produce. It is much to be regretted, however, that we have not complete measurements of these Oceanic heads, their various diameters, internal capacity, \&c., after the plan adopted by Morton; hut I presume such essentials will appear in full, when the text is published. It will he observed, furthermore, that the American heads differ more widely from all the Oceanic crania than they do even from those of the Chinese or true Mongol races, whence our American Indians are still supposed by fabulista to be derived. The Oceanic races, including even the Sandwich Islanders, when compared with our Indians, exhibit crania more elongated, more compressed laterally, less prominent at the vertex, and more prognathous, in type. American races, I shall render evident, are strongly distinguished by the very reverse of all these points, in addition to their own greatly-flattened occiput. Whilst running the eye, too, over Dumontier's long series of Oceanic heads, I was struck by one remarkable difference: viz., the greater amount of hrain behind the meatus of the ear than in the skulls of the aborigines of America; and the reader will notice vertical linea, rendering this fact obvious.

## Ambrican Group.

The author of Crania Americana separated [supra, p. 276] the races of this continent into two grand divisions: viz., the Toltecan and the Barbarous tribes. That luminous paper - Inquiry into the Distinctive Characteristics of the Aboriginal Race of America ${ }^{518}$-amply
justified the traveller's adage, that "he who has seen one tribe of Indians, has seen all."
"The balf-cled Faegian, shrinking from his dreary winter, bas the same characteristio lineaments, though in an exaggerated degree, as the Indians of the tropical plains; and these, again, resemble the tribes which inhabit the region west of the Rocky Mountaingthose of the great Falley of the Misaiseippi, and those, again, which ekirt the Eskimaux on the North. All possess alike the long, lank, black hair, the hrown or cinnamon-colored akin, the hesry brow, the dull and eleepy eye, the full and compreesed lips, and the salienth but dilated nose. . . The same conformity of organiration is not less olviaus in the osteological atructure of these people, as seen in the square or rounded bead, the flattened or vertical occiput, the large quadrangular orbite, and the low, receding forehead. . . . Mere exceptiona to a general rale do not alter the peonliar physiognomy of the Indina, which is as, ondeviatingly charactariatio sa that of the Negro ; for whether we see him in the athletio Charib or the stunted Chaymes, in the dark Californian or the fair Borrot, he is an Indian atill, and cannot be mitcaken for a being of any other yace."

And, above all anatomists, Morton bad the best rigbt to prononnce. We have seen [supra, p. 325] how his unrivalled "collection embraces 410 skulls of 64 different nations and tribes of Indians."

Time, moreover, from ante-historical - nay, even from geological epochas, down to the present hour, appears to have wrought little or no change on the physical structure of the American aborigines. Dr. Lund's commanication to the Historical and Geographical Society of Brazil, ${ }^{519}$ on the human fossil crania discovered by him in the Province of Minas Geraes, added to the published decisions of Dr. Meigs on the Santas fossilized bones, with those of Dr. Moultrie on the Guadaloupe fossilized head, settle tbat matter conclusively [supra, pp. 347, 350]: nor do the last-discovered fossilized jaws with perfect teeth, and portions of a foot, from Florida, now in the possession of Prof. Agassiz, negative this deduction; although such vestiges, still imbedded in conglomerate, may not be cited in the affirmative. Lund's language, as rendered by Lieut. Strain, J. S. N., is unequi-vocal:-
"The question then arices, who were these people? what their mode of life? of what reoe? and what their intellectund perfeotion! The answers to these questions are, happily, less difficult and donbtful. He examined rarions cranias, more or less perfect, in order to determine the place they ought to occupy in the syatem of Anthropology. Tbe natrowness of the forehead, the prominence of the 2ygomatic bonea, the masillary and orbital conformation, all aseign to these cranis a place among the characteristles of the American race. And it is known, anys the Doctor, in continastion, that the race which approximates nearest to this is the Mongolian; and the most distinctive and salient character hy whisb we diotinguish between them, is by the greater depression of the foreheed of the former. In this point of organization, these ancient cranis show not ouly the peculiarity of the American race, but this peculierity, in many instances, in an excessive degree; even to the entire disnppearance of the forehend. Fo must allow, then, that the people who occopied this country in those remote times, were of the same race at those who inhabited it st the time of the conquest. We know that the haman figures found acalptared on the ancient monaments of Mexico represent, for the grestor part, e eingular conformation of the heas being without forehead - the craniom retreating beckwerd, immediately above the sapar-
cillery arah. This anomely, which is generally attributed to an artificial diafigoration of the head, or the taste of the artint, now admits a more netural explanation; it being now proved by these nuthentic docamenis, that there really existed on this continent a rave exhibiting this enomalons oonformation. The skeletons, which were of both aexes, were of the ordirary height, although two of the men were above the common stature. Theso heads, eccording to the reoeived opinions In Craniology, could not have oceupied a high position in intellectual standing. This opinion is corroborated by finding an instrument of imperfect construction joined with the akeletons. This instrument is simply a smooth stone, of about ten inches in circumference, evidently intended to bruise seeds or herd tubstamese.
"In other esveras he has found other homan bones, which showequally the charteteristics of fossila, being deprived of all the gelatinous parts, and consequently very brittle and parous in the fracture."
Finally, the "Peruvian Antiquities" of Rivero and Tschudiso corroborate the above acientific view, viz., that the artificial disfigarement of the skull among the Inca-Perivians and other South American families, owes its origin to the prior existence of an autocthonous race, in whose crania such (to ue, seemingly) a deformity was natural: and thus the contradictory materials which induced Dr. Morton at first to deem this peculiarity to be congenital, and afterwards so exclusively artificial, hecome reconciled; while due regard is preserved to his truthful candor and craniological acumèn.


Of the fow forms of the head smong the old Peravisas, which were produced by artificisl means (as eatablished by Morton, in Elhnograpky and Arehaology of the American Aborigina, 1846), spece restritta me to one example (Fig. 297), on which the " course of every benduge is is every Instance diatinetly marked by correspondIng earity of the bony structure; " and noother form (Figs 298, 299) is monnmentally illustrated through Dex Rio's Account of Palenque. $\frac{02}{}$
The learned antiquarlet, Divero and Tsahadi, whoee rasearches astablifh that theso grotesque forms are primeval, no less then congenilal (being exhibited even in the fatke among Peruvien mammise), do not appear to have been aware that Dr. Morton

Fia. 298.


Fig. 298.
 hed already clapaified the four variaties of such distortions, in papar published five years previously to their work(

The compreasion of the head practised by various Indian tribes, al. though it ceuses distartion of the oramium in different dirpotions, doen not diminish the volume of the brein. This singular fact'was ennounced many years ago by Itof. Tiedemann, and has since heenabindantlycon-

Armed by the multiplied observations of Morton. From the measurements of twenty-six Peruvian crania, all extremely distorted, some elongated, others conical, and others again flattened on the forehead and expanded laterally, he obtained a mean of 76 cubic inches, or one inch more than the Peruvian average. From twenty-one native skulls from Oregon, all more or less distorted by artificial means, he obtained a mean rather below the average of the barbarous tribes; but from the whole of his measurements of distorted crania, as derived from the Peruvian and Nootka-Columbian series collectively, he found the average volume of the brain to be 79 cubic inches, or precisely the mean of the whole American group of races. I may add that, as mechanical distortion of the skull does not lessen the volume of the brain, neither does it appear to affect the intellect:

These points established, I would remark, that the most striking anatomical characters of the American crania are, small size, averaging but seventy-nine cubic inches internal capacity; low, receding forehead; short antero-posterior diameter; great inter-parietal diameter; flattened occiput; prominent vertex; high cheek-bones; ponderous and somewhat prominent jaws. Such characteristics are more universal in the Toltecan than the Barbarous tribes. Among the Iroquois, for instance, the heads were often of a somewhat more elongated form; but the Cherokees and Choctaws, who of all modern Barbarous tribes display greater aptitude for civilization, present the genuine type in a remarkable degree. My birth and long residence in Southern States have permitted the study of many of these living tribes (a hundred Choctaws may be seen daily, even now, in the streets of Mobile), and they exhibit this conformation almost without exception. I have also scrutinized many Mexicans, besides Catawbas of South Carolina, and tribes on the Canada Lakes, and can bear witness that the living tribes everywhere confirm Morton's type.

One might, indeed, describe an Indian's skull by saying, it is the opposite in every respect from that of the Negro; as much as the brown complexion of the Red-man is instantly distinguishable from the Black's; or the long hair of the former differs in substance from the short wool of the latter.

[^134]

Fig. 802.


Creek Chief - Prole View.

Fig. 805.


Mound-ballder - Profile View.

Fig. 804.


Vertical Flow.

Fig. 806.

vertical View.
to show, through faithful copies, that the type just attribute to the American races is found among tribes the most scatteredamong the semi-civilzed, and the barber-ous-among living as well as among extinct races; and that no foreign race has intruded itself into their midst, even in the smallest appreciable degree: availing myself of some of the original woodcuts of the Crania Americana, placed by Mrs. Morton's kindness at our disposal.

## Peruvians, from Temple of the Sun.

This head (Fig. 807) from the Cemetery of Pechacamac, is characteristic of the ${ }^{-}$American type, as will be seen at a glance : the parietal and longitudinal diameters being nearly equal; the vertex prominent.

Fig. 808.


Longitudinal diameter, 6 inches; parietal, $5 \cdot 9$; frontal, $4 \cdot 4$; vertical, 5. Internal caparity, 77 eubio inches.

Fig. 310, from the Inics Cametery, is perfectly typical of the ract.

Longitudinal diamater, e.5 isches; parietal, 5.5; fronial, 4.6; verticel, $5 \cdot 6$. Internal capseity, 68.5 oubio inches.

Morton supplies the measurements of twentythree adult skalls of the "pure Ince race," from the cemetery called Pechacamso, or the Temple of the Sun, nest Lims; obtained and presented to him by Dr. Raschenberger, D. S. N. As this sepulchre wes reserfed for the exelugive use of the higher clesa of Peruviana, it is reasonable to Infer that the atrulla thence disinterred belonged to persons of intalligence and distinction; al-

Fig. 810.020


Puataith though I aln aware that Rivero snd Tschudi express donbts that eny of these asa have belonged to royal Pornvian pertonages, on

The largest cranium of this series yields an intarnal oapecity of 89.5 cubic inchea, whidh is a fraction ahort of the Caucasian mean; while the amallest mesaurea but 60 . The masa of the whole is bat 78 cubic inches.

The following examples of Mexican heads suffice to ehow the identity of the two races.

This (Fig. 811) is a relic of the genoine Toltecan stock, hating beau exhumed from an ancient cemetery at Cerro de Quesilas, near the dity of Mexico. It was accompenied hy nomerous aptique vessels, weapons, so., indicating a personage of distinction This cranium was brought from the city of Mexico by the Hon. J. R. Poinaett, and by him prosented to the Acedemy of Sciencey of Pbiladeiphil

Lougitudinal diameter, $7 \cdot 1$ inches; pa rietal, 6-7; fronial, 4.4; vertical, 5.2. Interoal capacity, 83 cubic inches.

A remarkably-well characterized head (Fig. 818) from an encient tomb near the city of Mexico, whenee it wat exhumed with - great variety of an-


Fia. 818.529


Moxleen-Vorticel Fiom.

Fig. 814.


2n7\%.
tique ressels, mesks, orasments, \&o. It is preserved in the colleation of the American Philosophical Society. The forehend in $10 w$, but not very receding; the face projecte, and the whole craniam is extremely anequal in its lateral portions I hed aluost omitted the remark, that this irregularity of form is common in and peonliar to American crania

Let us now track the American type into the Barbarona racel Among the Lroquois and some other tribes of both North and South Americe, beads of more elongeted form are oocasionally met with; bat the type truly characteristic predominates largely among the Crecks-under which appellation were embraced most of the tribes of Alabams, Georgia and Floridn. Having personally examined many of these nations, I can vouch for bis fact. Fhile Prof. Agassiz was in Mohile last spring, I look occesion to point out this cranial uniformity; and his critical eye detected no exception in at least 100 living Choctav Indiens whom we oxamined togetber is and around the city. The moders Creak etiff [rupra, Fig. 802] affords satiafactory evidence.

## Seminole (Creek Tribe) and Dacota (Sioux).



Fio. 817.


Samloole-Beck Fiew.


Decote-Proill FIner.

Eeminole mar rior (Fig. 815) slain at the batte of SL Joseph's, 30 mile below 8t. Anguntine, in June, 1896, by Cept Jastin Dimmick, U. 8. Artillery. Longitudinel diameter, 7.3 in ; parieta 1, 5•9; frontal, 4-6; vertical, 6.8. InLernal eapecity, 98 cubic incbes.

Fig. 818 is the kead of a Sioux Whatior; very eharscteristic of histribe. Longitudinal dismeter 8.7 inches; parietsl, 67 ; frontal, 4.2; vertical, 6.4. Internal capucity, Bo cubic inches.

Reference to the Crania Americand will show that examples might be greatly
maltiplied, to prove that our Indian aborigines are everywbere comprehended under one group. I have already spozen of the aucient mounds and the mound-builders; beve shown how namerous and widely-extended they are, and that they all belonged to the great Toltecan family. In addition to the cranium disoovered by Squler-\{Fig. 198], I subjoia two more of these mound-ghula, selected from points separated by immense discance.

## Skull from a Mound on the Upper Misisisippi.

Bkull (Fig. 819) Leken from a mound seated on the high bluff which overlcoks the Mlsaissippi river, 150 miles ebove the month of the Missouri. There were mix mounde, pleced over ench in a right line, commencing with $B$ cmall one, only a few feet high, and tarmbnating in anothor of eight or ten feat elevation end twenty in diameter. This akull wes obtained from the fith mound of the series. It is a large craniom, very fall in the vertical dinmetar, and broad between the parietal bones

Longitudinal dismeter, 7.1 inches; paristal, 5.8 ; frontal, 4.8; vertion, 5.5. Internal cspacity, $85 \cdot 5$ subio inohes

## Skull from a Mound in Tennessee.

This craniam (Fig. 821) was axhamed by the late diatingrinhed Dr. Troost, of Neshville, Tennessee, from a mound in that Btate, at the junction of the French, Broad and Holston rivers. Many other mounds are found in this section of oonntry. This akull is remarkable for its vertioal and perietal diameters, flatness and eleration of the occipat The fecial angle is also unusabilly Fia. 821. great.

Longitudinal dismeter, $8 \cdot 6$ lnehes; pariethi, $5 \cdot 6$; frontal, 4.1; vertical, 5.6. Internal eapacity, 87.5 cabic inches.

To the reader have thas been submitted specimens of American skulls, from parts of the continent the most widely separated - some cmania collected from the Toltecan, some from the Berbarous tribes of the present times, and others from ancient moonds and burialplaces: and, although there are sundry minor varieties in the forms of crania - a few exceptions to the general rule, yet the type which I
laid down as characteristic of this people, largely predominates over all others. It is everywhere peculiar, and bears no resemblance to any known nation of ancient or modern epochas throughout the world.

Mean Results, selected from Morton's Tabli. 54

|  | $\begin{aligned} & \text { Tolteonn ns } \\ & \text { tons, including } \\ & \text { skulls from the } \\ & \text { mounde. } \end{aligned}$ | $\begin{aligned} & \text { Berbarous ne- } \\ & \text { toos, with } k \text { knils } \\ & \text { from the Valley } \end{aligned}$ of the Ohlo. |  | Flat-head tribe of Columbla River. | Andent Perca- rians. |
| :---: | :---: | :---: | :---: | :---: | :---: |
| $\left.\begin{array}{c} \text { Facial an- } \\ \text { gle } \end{array}\right\}$ | $75^{\circ} 85^{\prime}$ | $76^{\circ} 13^{\prime}$ | $75^{\circ} 45^{\prime}$ | $69^{\circ} 30^{\prime}$ | $67^{\circ} 20$ |
| $\left.\begin{array}{c} \text { Internal } \\ \text { capacity } \\ \text { incu. in. } \end{array}\right\}$ | 76.8 | $82 \cdot 4$ | $79 \cdot 6$ | 79.25 | 78.2 |

## Mongol-Americans - Eskimaux.

The Polar family, which are identical on both continents, display one of the strongest possible contrasts with the aboriginal Americans; and no one can compare the cranis of the two, and suppose that one continent was populated from the other through the Eskimaux channel. In fact, the Eskimaux are confined to a polar zone, as well in America as in Asis.

Dr. Morton obtained, from Mr. George Combe, four genuine Eskimanx skulls, of which figures are grouped below (Figs. 828-826). The eye at once remarks their narrow elon-
 matic arches, the broad, expanded cheek-bones, and the full and prominent occipital region.
"The extreme
Fia. 828.


Esklmaux.

Fia. 325.


Rekimaux.

Fig. 824.


Eskimaux.

Fia. 826.


Eskimaux.
elongation of the upper jaw contracts the facial angle to a mean of $78^{\circ}$, while the mean of 8 heads of the 4, gives an internal capacity of 87 cubic in., a near approach to the Caucasian average." ${ }^{535}$ The diagrams here given will enable the reader to make his Eskimanx comparisons still more in detail. Fig. 823 is "from Davis's Strait, the largest head in the series, and the best frontal development. The nasal bones are
soflat as to be scarcely perceptible." "On this skuil (Fig. 824) is whitten the brief memorandam 'Found in the snow, by Capl Parry.' In overy particalar, well-chamaterized Eskimaux bead." Fig. 825 was "found by Mr. John Turnbull, Eargeon, upon Disoo Ialend, coast of Greanland, in the summer of 1825." And "this gkull (Fig. 826) was obtained at Icy Cape, the northwest extremity of Americe, and is marked, from A. Collio, Esq., Sargean of H. M.'s ehip Blossom.' "

Nothing can be more ohvious then the contrat between these Eskimsax heads and thoee of all other tribes of this continent. They are the only people in Amerios who present tha sharactera of an Aaiatio raee; and, being bounded closely on the soalh by genuine aborigides, they seem pleced bere as if to give e practicel illastration of the irrefragable distinctmeas of races; together with an example, that modifications of human types are independent of any physical cansea but direct amalgaroation.
M. Jecquinot not ouly regards all the Americen races (exclative of the Rekimana) an one race, but as a branch of the anme race an the Polynesians. He is very positive in this opinion, and rests it solely opon reaemblance of type; at the same time acknowledging that, to the present day, no affinity between the languages of America and Polynesia has been discorered. 53 l It is with relactance that we differ from an authority we prixe so highly; bat, spart from the strange circumstance that M. Jsequinot wes unaequainted Fith Morton's labors, we do so on materials fornighed hy M. Damoutier, who was his conpagmon de boyage; for which we refer to our remarin upon Polynesian arania. No anstomist, who has exsmined Dr. Morton's collection, or Ilved, as I have done, for balf a centary among Indian tribes, can sabeotihe to the opinion of M. Jacquinot; who does not appear to have bestowed edegante conalderation opon American oraniology, nor, indeed, upon our Indian questions genarally.

Ethnography is yet maware of its resources. The London "Timee" of the 8th of October, 1858, publishes the despatohes of Commander McClare, to the British Admiralty, through which the exdstence of Arefic mer is announced, flourighing in a higher latitude than any other Eikimsax heretofore known: -"Yod will, I am certsin, be very happy to learm that the Northwest Pessage has been discovered by the Investigator, which event way decided on the 26 hh October, 1850 , by s sledge-party orer the ice, from the position the ship was frozen in. . . We have bean most highly favored, . . . in being able to extend our search in quest of Sir John Franklin over a very large extent of cosst, which was not hitharto known, and found inhabited by a nomerous tribe of Esquimain, who bad never ere our arrival seen the face of the white man, and were really the most simple, interesting people I ever met-living ontirely by the chase, and having no weapons except those used for that object. The fiercer passions of our nature sppeared onknown: they gave me t pleasing idee of man freah from his Msker's band, and oncontaminated hy intereourse with our boasted civilization. All those who traded with the -Company were foand the greatent reprobates."
Annexedare given, by way of contrast, but without comnent, two skulls (Figg. 327, 328) of the most promisent Asiatfo types: vis., the Tartar, and the Mongol, which will shothow greatly modern races differ; notFithstanding the


Cblsese-Moarol
Turler.
amalgamations which have been going on for several thousand years. Theso races an, anqueationebly, antedsto the foundatian of the Kgyptinn Empire-proving how difficult it is to obliterate e type

Thus far, in the Comparative Anatomy of Races, I have permitted myself to cull but a few of the more ealient facts touching the races of Europe, America, Africe, and Oceanica, and already are my prescribed limita exhansted. Asta, with a population incomparably the most numerons of any division of the globe, and presenting an infinitude of widely different types, must be abandoned; although no terrestrial sphere afforde a richer and more interesting field of research However, I can scarcely regret the omission - regarding our side of the case to be sufficiently well made out

All the types of mankind known to history or monumental researches vanish into pre-historical antiquity; and investigation shows that this remark applies with full foree to the Mongolian gronp of Asia. Tartar races are distinctly portrayed on the monuments of the XIXth dynasty of Egypt; and a reference to our chapter on Cbronology will prove that the Chinese Empire, with the same Mongolian types now seen, togetber with their peculiar language, institutions, arts, \&c., were contemporary with the Old Egyptian Empire. Such facts confirm the only rational theory: viz., that races were created in each zoological province, and therefore all primitive types must be of equal antiquity.

Patrire, whose work is the only veriteble key to Chinese bistory and literature yet put forth in Earopa, admirsbly remarks: - "Or all historical phenomens that atrike the human understanding, and whtch it seeks to comprehend when wishing to embrace the whole of univeral life, as well an the general development of humanity, the moat curious and the most extraordinary is easuredly the Indefinite existence of the Chinese Empire Like the great river of Egypt, which veila to travellert one-bulf of its course, the grand empire of High Asis has only revealed itself to Europe ofter trapersing an unknown region of more than forty ages of existence. It wae during our Middle Ages - epoch of profound

Fra. 820.500
 darkness in the Weas, and of immense movement in the East - that the noise of a colossal empire at the exiremity of Asia reached European ears, simaltaneously with the clangor of those Tartarian armies which (like an arrlanabe) then began to fall opon our pariostricken Ocaldent" so

But the deficiency of Mongolian akwhe, compplained of by Morton, may, in pert, be counterbalanced throngb Chinese iconogrophy. The following selectiona are made merely with ubs view to illuatrate Mongolian permenence of type.

A portrait (Fig. 829) of the Miad - taph "sons of the uncultivated fields" - the onsubdued and aboriginal savage tribea of Chins; whose existence recedes to the satio-
historical times of $\mathrm{Fo}-\mathrm{HI}$ (в. с. 8400), and descends to the present day, in various wild and mountainous regions of the empire, as well as among the hills near Canton. They have ever been reputed, by the Chinese, to be untameable, and, in this respect, resemble the sborigines of America. Paravey says he copied this figure from a Chinese work of 2400 plates, now in Holland.

Portrait of Khoung-Eou-Tsed (Fig. 830), Confucius ; born 551 years B. c.; whom the Chinese venerate as the "most saintly, the most sage, and the most virtuous, of human Institutors." His face, while Sinico-Mongol, possesses the massive lineaments of a great man.

Another form of Chinaman is beheld in the historian Sse-ma-Thsian (Fig. 881), who, born B. c. 145, composed the grand history of the Empite, in 130 books.

The work of Pauthier is illustrated by an infinitude of Chinese likenesses of all ages; and it is so very accessible in form and price, that we refer our readers to the original for proofs that, with the exception of the pig-tail introduced by the Tartars, the Chinese have not altered in the 4000 years for which we possess their records.

The subjoined (Figs. 882-885) are authentic Chinese portraits 543 of the ancient foreign people at the four extremities, or four cardinal points, of the Empire: -

Fig. 382 - "The men of Tai-ping (at the east) are humane, benevolent."

Fig. 333 - "The men of Tan-joung (at the south) are sage, prudent.
Fig. 384 - "The men of Tai-moung (at the west) are faithful, sincere"-Indian nations.

Fia. 382.


57

Fig. 330. ${ }^{511}$


Fig. 831.42


Fig. 838.


Fto. 385.


Fig. 835 - "The men of Koung-thang (at the north) ars wat Like, Toliant" - Tartar netions.

I have merely to remark, on these foreigaers, that they represent varieties of the Mongol type, auch as naturally belong to that centre of human creations; referring the reader to Pauthier"s aketch of the "Relations of Foreign Netions with Chins," ${ }^{4} 4$ nad to Jerdot's "Tablesu synoplique, chronologique, et par Rece," sef for the best specification of meient Mongol-Tartar mubdirigions.

I conclude these few words on crania with some comments upon the following Table, taken. from Morton's printed Catalogue (Philadelphie, 3d edition, 1849) : -

Tabxy, shozing the Size of the Brain in cubic inches, as obtained from the mearmemont of 628 Crantia of varioss Races and Families of Man.


Some classification of races, however arbitrary, seems to be almost indispensable, for the sake of conveying clear idens to the general. reader; yet the one here adopted by Dr. Morton, if necepted without proper allowance, is calculated to lead to grave error. Like Tiedemann, he has grouped together races which between themselves possess no affinity whatever-that present the most opposite cranial characters, and which are doubtleas specifically different. In the "Caucasian" group, for example, are placed, among so-called white races, the Hindoos, the ancient and modern Egyptians, \&c., who are dark. Our preceding chapters have shown that this group contains many diverse typea, over which physical causes have exercised very little, if any influence.

[^135]stracture from the Teuton as is the Hottentot: and we might jurt as well cians reindeer and gaselles together as the Tenton and Hindoo, the Negro and Hottentol Cnn any nataralist derive a Peravian from a Circassian a Papuan from a Turk !

Dr. Morton's colleotion of crania, though extraordinarily copions in some races, is very defective in others; snd, althoagh his mesauroment doublesa approximste aufficiently to the truth to prove a wide difference in the form and size of cranis, yot they are by far too few to afford perfectiy accurate edmeasarements. The firsh, or Teutonic group, for example, gives a mean of ninety-two onbic inches; and this avernge is based on the measurement of but thirty skalls; whereas 800 might not suffice to evolve a fair average of Germanio cranial developments
In these anatomion! statistics the science of anthropalogy is wofully delcient; nor can the racuum be filled without the universal concurrence of phytiologists. Norton's cabinet, the largest in the world, fails to eapply adequate materiels. In African, American, and Egyptian, types, it leaves little to be desired; bat the grest ethnographer himself frankly calls attention to its requirements: "For example, it contains no skolls of the Eskimar, Fuegians, Californisas or Braxilians. The distorted heade of the Oregon tribes are also but partially represented; while the long-headed people of the Iske of Titicacs, in Bolivis, are altogether wanting. Stulls also of the great divisions of the Caucasian and Mongolian raced are too few for satisfactory comparison; and the Slavonic and Tehadic (Finniah) netions, together with the Mongol tribas of Northern Aaia and China, are arnong the efpecial desiderath of this collection."ste

Nevertheless, it is with some feelinga of national and professional pride that 1 remind the reader how an American physician, unsapported by any gorernament, and amidat incessant devotion to a most arduous practice, who "commenced the stady of athnology in 1830" withont a single crunium, hes bequeathed to posterty above 840 human skalle, and above 620 of the inferior animals, so thoroughly illumined by his personal labors, thet in the absence of fresher materiale, science must panse before she hazarde a doubt apon any regalt at which Samour Gronor Mostos had matorely anived.

Deploring the absence of these cranial desiderata, the idea occurred to me that such deficiency might, in some degree, be supplied by hatmanufacturers of various nations; notwithstanding that the information derived from this source could give but one measurement; viz.: the horizontal periphery. Yet this one measurement alone, on an extended scale, would go far towards determining the general size of the brain. Accordingly, I applied to three hat-dealers in Mobile, and to a large manufacturer in Newark, New Jersey, for statements of the relative number of each size of hat sold to adult males. Their tahles agree so perfectly, as to leave no doubt of the circumference of the heads of the white population of the United States. The three houses, together, dispose of about 15,000 hats annually.

The following table was ohligingly gent me hy Mesers. Fail and Tates of Newark; and they accompanied it with the remark, that their hats were sent principally to our Westera States, where there is a large proportion of German population; also that the sizes of these hats were a little larger (nbout one-fourth of an inch) than thoge sold in the Southern States. This usefal observation was confirmed by the three bat-dealera in Mobile. Our table gives-1st, the numher, or size of the hat; 2 d , the circumference of the bead corresponding; 8d, the circumference of the bat; and, lastly, the relative proportion of each sold out of twelve bets.


All hata largor than these are celled " extra sires."
The everage sise, then, of the cranis of white races in the United Btatea, is about 22 f inches ciroumference, incloding the bsir and sealp, for which abont $1 \frac{1}{2}$ iaches shoald bo deducted; lesving a mean horixonial periphery, for sdult males, of 21 inches. The measurements of the parent Tentonio races in Germany, and other nations of Europe, would give a larger mean; and I have reason to believe that the population of France, which is principally Celtic, would yield a smaller mesn I hope that others will arall themselves of better opportanities for comperison.

Dr. Morton's measurements of sboriginal American reces presents mean of but about 102 inches; and thia mean is substantislly confirmed by the fect stated to me by my friend, Capt. Bcarbitt, U. S. A. [espra, p. 289]. Although his hend meagures but 22 inches, it whe with great difficulty that he found one bat anid several handred to fit him; thus proving thet the Abglo-American mean is equal to the marimum of the Mexican Indians; who are hero, st Metamorss, more or less mired, too, with Spanish blood.

Hamilion Smith itates: - "Fe have personally witnessed the issue of military chacoa (eaps) to the Second Fest India regiment, at the time when all the rank and file were boaght out of slave ahips, and the sergeanta slone being part white, men of color, Negroes from North America, or bern creoles: and it was observed that starcely any fitted the heads of the privates excepting the two amallest eizes; in many cases robust men of the standard helght required padding an inch and a balf in thioknees, to it their cepa; while those of the non-commiesioned officers were adjusted without any edditional aid."s7

My own experience abundantly proves the correctness of these facte in the United States; and my colleague, Mr. Gliddon, who resided two yeare in Greece, 1828-30, informe me that he saw hundreds of the Greek regulars, at revieme, drills, or on guard, who wers compelled to wind 4 handkerchief around their heads to prevent their newly-adopted chacos, made for English soldiers, falling over their noses. The modern Greek head, Uhe the Armenian, is somewhat anger-loafed, owing to early compression by the turhan.

The lergest skoll in Dr. Morton's collection gives an interan capacity of but 114 cabic inches; and we know that heady of this size, and even larger, are by no means uncommon in the Anglo-Saxon race. Dr. Wyman, in his post-mortem examination of the famed Daniel Webstar, found the internal capacity of the cranium to be 122 cubic inches: and, in a private ietter to me, he says, "The circomierence was measured outaide of the integuments, before the scalp was removed, and may, perhaps, as there was much emaciation, be a little less than in heaich." It was 237 inches in circumference; and the Doctor states that it is well known there are several heads in Boston larger than Mr. Wehster's.

Mr. Araold, a very intelligent bat-dealer in Mohile, writes me in a note as follows: " Frequently I have calls for the following sixea (measured from head)-24, 24i, and, about once a year, 25 inches."

I have myelf, in the last few weekt, measured half-a-dozen heads as large and larger then Webster's; while a reference to Morton's tahles will show that in his whole Egyptian group only one reacbas 97 inches internal eapacity; and, ont of 388 nborginal American sknlla, but one attains to 101 , and another to 104 cabio inches.

It has been easerted by Prof. Tiedemann of Heidleberg, that the brain of the Negro is as large aa that of the White races; but Dr. Morton has refuted this opinion by a mase of facts which cannot be overthrown. He has, moreover, thown that Tiedemano's own tables contradict such deduction.

Tiedemenn adopted the oommon error of grouping together, nuder the term Cawcariara, all the White races (Egyptians, Hindoos, \&c.); no less than all the African durk races ander the unscientific tarm of Negroes. Now, I have shown, that the Egypuans and Hindoon porsees ahout treire cubic inches less brain than the Teutonio raoe; and the Hottentota sbout eight inches less than the Negro proper. I affirm that no reason can be asaigned why the Hottentot and Negro sbould be claseed together in their crsnial measurements; por the Teutod with the Hindoo. I can discover no date hy which to asaign a greater age to ape type thon to another; and, unlebs Professor Tiedemann can overcome this difficulty, ho has no right to assume identity for all the races he ia pleated to include in each of his groups. Mummies from catuoombe of Egypt, and portraits from the monumenta, exhibit the seme disparity of sixe in the heeds of races who lived 4000 yesra ago, sa among ady hyman species at the present dey.

As Dr. Morton tabulated his skulls on a somewhat arbitrary basis, I abandon, that arrangement, and present his facts as they stand in nature, allowing the reader to compare for himself.

Size of the Brain in Cubic Inehes.

| hatig. | I. C. <br> Mean. | 1. 0. <br> 3een. |
| :---: | :---: | :---: |
| Modern White Rater; Tentonic Group. | 92 | 92 |
| Pelasgio ........................... | 84 |  |
| Celtic .............................. | 87 | \% 8 |
| Semitic... | 89 |  |
| Anciant Pelasgic... | 88 |  |
| Malnys ............................... | 85 |  |
| Chinese .............................. | 82 | $\}^{882}$ |
| Negroes (African) .................. | 83 |  |
| Indostanees ......................... | 80 |  |
| Fellahs (Modern Egyptians)...... | 80 |  |
| Egyptians (Ancient)............... | 80 |  |
| American Group; <br> Tolteosa Family $\qquad$ | 77 |  |
| Berberous Tribes................... | 84 | 3:9 |
| Hottentots.. | 76 |  |
| Anstralinus | 75 | $\} 75$ |

Absolute measurements arrny themseltes into a sliding scale of seventeen cubic inches, hetween the lowest and the highest races. Here we behold cranial measurements as history and the monuments first find them; nor can such facts be controrerted.

Let me again revert to tho question of hybridity, in connection with endeavore to obtain accurate cranial statistics. The adulteration of primitive types, at the present day conspicuous among many races of mankind, renders precision, in regard to the commingled inhabitants of various countries, frequently impossible; especially wherever the dark-skinned races of Europe, and the lower grades of humanity elsewhere, have co-operated in mutual contaminations. Of the latter, our own continent supplies two deplorable regions, from whicb real philanthropy might take waming. Tsebudi's "Travels in Peru" furnishes a list of the crosses resulting from the intermixture of Spanish with Indian and Negro ances in that country. The scttlement of Mexico by Spaniards took place at the same time, and the intermixture of races has been perhaps greater there than in Peruvian colonics. Mexiean soldiers present the most unequal characters that can be met with anywhere in the world. If some are
brave, others are quite the reverse - possessing the basest and most barbarous qualities. This, doubtless, is a result, in part, of the crossings of the races. Here is Tschudi's catalogue of such amalgamations in Peru:-

Parent.
c* Whits father and Negro mother
White father and Indian mother
Indian father and Negro mother
White father and Mulatto mother
White father and Mestiza mother................ Creole - pale, brownish complexion
White father and China mother................... Chino-blenco.
White father and Cuarterena mother............ Qaintero.
White father and Quintem mothar.............. White.
Negro father and Indian mother ................. Zambo.
Negro father and Malatto mother ............... Zambo-Negro.
Negro father and Mestirs mother................ Mulatto-oscuro.
Negro fathar and Cbina mother ................... Zambo-Chino.
Negro father and Zambs mothar ................. Zambo-Negro-- perfectiy black.
Negro father and Quintara mother............... Mulstto - rether derk.
Indian father and Mulatto mother............... Chino-oscoro.
Indisa father and Mestiss mother ............... Mestizo-claro - frequently very heautiful
Indian father and Chino mother.................. Chino-coln.
Indian father and Zambe mother ................ Zambo-claro.
Indian father and Chinn-oholer mother......... Indian - with frizsly hnir.
Indian father and Quintera mother.............. Mastixo - rather brown.
Mulato father and Zamba mother............... Zambe - $\quad$ miserable race.
Mulato father and Mestiza mother ............. Chino - rather clear complexion.
Mulatto father and China mother................ Chino - rather dark.
Children. Mulatto.
Mestiza
Chino.
Cuarteron.
"To define their characterintics correctly," adds the learned German, " would be imposelble; for their minde partake of the mixture of their hiood. As a general rule, it may be farig said, that they nnile in themoelvea all the faolts, without any of the virtues, of their progenitors; as men, they are generally inferior to the pure races; and as members of eociety, they are the worst class of citizens."

In Pera, be it also observed, these mongrel families are produced by the interminture of two distinct types (Indians and Negroes) with a third (Portuguese sad Spaniardo), which I havo shovn to have been slready corrupted by Raropean comminglings, previously to their landing in Sonth America. After alt, in the United States, the bulk of mulato grades is occasioned solely hy the union of Negro with the Teutonic atock - Indian araalgamations being so unfrequent as to he rarely seen, asve along the frontier.
This leads me to substantiale previous remarks on Liberis "Gov. Roherts, of Liberia, - fair mulatlo, and Ruaswarm, of Cape Palmas, ars clever and eatimable men; and we have in these two men unanswerable proofs of the capscity of the colored people for selfgoverament.
"The climate of Western Africs cannot he considered as untholesome to colored coloniats. Every one mast pass [owing to the unacelimated evotic blood in his coint] through the acclimatIng fever ; but, now that more conveaient dwellings are erected, so that the sick may be properly attended to, the mortality has considerably decreased Once well through this sickness, the [mulatlo] colonist finds the climste and the eir suitable to bis constitution; not so the pritr man. The residence of a few years on this const is certain death to him."
go far Commodore M. C. Perry, U. S. N., in his report on Liberis. Nises Frederika

Bremer adds, with that cbarming simplieity so peodiarly Evedinh (Jenny Lind, Ole Bell,
 peary as if Liberia and Sierra Leone woold become the nurneries from which the new civilization and more beautiful futare of Africa wonld proceed. I oannot beliere but that these [mulatto] plants from a foreign lund must, before that time, andergo a matamorphotio mast become more African,"us

The most inveterato enthropolagirt coald not better foreshedow Liberian desinies:

And, as concerns the "beautiful" likely to arise in Africa when the half-civilized mulatto becomes re-absorbed into the indigenous Negro population, let me add, that, were authority necessary at this day to rebut the good-natured Abbé Grégoire's testimony in favor of mulatto-poesies, (and such posies!) ethnography might begin with Mr. Jefferson's. His Notes on Virginia contain this sentence:-
${ }^{4}$ Never yet could I find tbat a Black had nttered a thanght above the level of plain gerration; never inw even an elementary trait of painulg or of sculptare."

I have looked in vain, during twenty years, for a solitary exception to these characteristic deficiencies among the Negro race. Every Negro is gifted with an ear for music ; some are excellent musicians; all imitate well in most things; but, with every opportunity for culture, our Southern Negroes remain as incapable, in drawing, as the lowest quadrumana.

As before stated, the plan of this work does not permit a complete anstomical comparison of races; and I have merely solected such illustrations an I deem tafficient wo demonstrate plurality of origin for the human family. A fet othere are subjoined, with a brief commentary. The "Caucasian," Hongol, aod Negro, constitate three of the most prominent groups of mankind ; and the vertical riews of the following crania (Fige. 886-338) diepley, at a glance, how widelg separated they are in conformation. How they differ in eixe and in facial angle has been already shown So uniform are thoeo cranial characters, that the genuine types cas at once be distingulahed by a practised eya.

If, as we have reiterated times and again, those types depicted on the early monuments of Egypt have remained permanent through all subsequent ages - and if no causes are now visibly at work which can transform one type of man into another - they must be received, in Natural History, as primitive and specific. When, tbercfore, they are placed beside each other (e.g. as in Figs. 336-838) such types apeak for themselves; and the anatomist has no more need of protracted comparisons to seize their diversities, than the school-boy to distinguish turkeys from peacocks, or pecaries from Guinea-pigs.

Our remarks on Afriean types have shown the gradations which, ever ascending in caste of race, may be traced from the Cape of Good IIope northward to Egypt. The same gradation might be followed through Asiatic and European ruces up to the Teutonic; and with equal accuracy, were it not for migrations and geographical
diaplacements of these last, to which aborigines in Africa have been less suljected.


Although I do not believe in the intellectual equality of races, and can find no ground in natural or in human history for such popular credence, I belong not to those who are disposed to degrade any type of humanity to the level of the brute-creation. Nevertheless, a man must be blind not to be struck by similitudes between some of the lower races of mankind, viewed as connecting links in the animal kingdom; nor can it be rationally affirmed, that the Orang-Outan and Chimpanzee are more widely separated from certain African and Oceanic Negroes than are the latter from the Teutonic or Pelasgic types. But the very accomplished anatomist of Harrard University, Dr. Jeffries Wyman, has placed this question in its true light: -
"The organizstion of the anthropoid quadromana jastifiea the naturalist in placing them at the head of the brate-oreation, and placing them in a position in which they, of ail the animal series, shall be nearest to man. Any anstomist, however, tho will take the trouble to compare the akeletons of the Negro and Orang, cannot fail to be struck at sight with the Fide gap which separate them. The difference hetween the craniam, the pelvis, and the conformation of the upper extremities, in the Negro and Caucasian, sinks into insignificance when compared with the vest difference which exists between the conformation of the same parts in the Negro and the Orang. Yet it cannot be denied, however wide the separation, that the Negro and Orang do afford the points where man and the brute, when the tolality of their organization is considered, most nearly approacb each other." sua

The truth of these observations becomes popularly apparent through the following comparative series of likenesses. There are fourteen of them; and, by reference to the works whence they are chosen, tho reader can verify tbe fidelity of the major portion. For tho remainder, taken from living nature, the authors are responsible when vouching for their accuracy.

Fia. 389. - Apollo Belvidere, 533


Fia. $340{ }^{558}$


Greek.

Fig. 841. - Negro. 55


Fia. 842.35


Creole Negro.

Fia. 843. - Young Chimpansee. ${ }^{\text {.58 }}$


Fia. 344. 588


Young Chimpansea.

Fia. 346.561

Fig. 845.599


Orang-Outan.

Fia. 847.500


Ohimpanseo.

Fia. 849.


Moblle Negro, 1853.

Fia. 851.


Negro, 8200 years old [mprac, ppre 250-281].


Fia. 348.5e2


Hottentot from Somerset.
Fia. 350.


Moblle Negro, 1853.

Fia. 852.


Nublan, 8200 years old.
(459)

It will doubtless be objected by some that extreme examples are here selected; and this is candidly admitted: yet, each animal type has a centre around which it fluctuates-and such a head as the Greek is never seen on a Negro, nor such a head as that of the Negro on a Greek. Absolute uniformity of type is not a law of Nature in any department: in the gradations of species, extremes meet, and are often confounded.

Morton's manuscripts supply an extract which shows, that "skeptical physicians" are not the only honest men who cannot descry unity of human origins in Nature's phenomena:-

[^136]
## Intblebct.

I had intended to puhlish an entire chapter on the "Comparative Mental Characters of Races;" hat our Part I. hae already swelled beyond its prescribed limits; and, in consequence, although this field is a broad and fertile one, I must he content with a few brief remarks. It has been admirably observed hy Dr. Robert Knox, that

[^137]It is the primitive organization of races, their mental instincts, which determine their characters and destinies, and not blind hazard. All history, as well as anatomy and physiology, prove this.
Reason has heen called the "proud prerogative of man" - being the faculty which disunites him from the hrute creation. Metaphysicians propose many definitions of instinct and of reason; and learaed tomes have been written to sbow wherein the one differe from the other: and yet no true mental pbilosopher will contend that the tine of demarcation can be drawn, nor can he point out where animal intellect ends and that of man begins. Even Prichard admits that animale do reason, and I might quote observations of the ablest naturalists to support him; but the following résumé suffices.

[^138]emorde from their primitive wild progenitors. The races of men are goveraed by similar Lava. 'Intelligance, ectivity, embition, progresaion, high anstomical development, charaoterixe some racea ; atupidity, indolence, immobility, saragism, low anstomioal doralopment distinguish others. Lofty civilistion, in all oases, has been achieved solely by the "Caucasian" group. Mongolian races, anve in the Cbireas family, ln no instance have reeched beyond the degree of semi-civilization; thile the Black races of Africa and Oceanica, no less than the Darbarous tribes of America, have remained in ntter darkness for thousands of years. Negro races, when domenticated, are susceptible of a limited degree of itmprovement; but when released from remtraint, as In Hayt, they sooner or later relapse into berbsrism.

Furthermore, certain sevage types can naither be civilized nor domesticsted. The Darbarour raves of Amerios (excluding the Toltecs), althoagh nearly as low in intellect es the Negro races, are eseentislly untameable. Not merely bave all attempta to civilize them failed, but eleo erery endeavor to ensleve them. Our Indien tribes aubmit to exterminotion, rather than wear the yoke under which our Negro blaves fatlen and multiply.

It has been falsely asserted, that the Choctase and Cherokes Indians have made great progress in civilination. I assert positively, efter most ample investigetion of the facts, that the pure-blooded Indians are everywhere unchanged in their bahils. Many wbite persons, setting among the above tribee, have intermarried with tham; and all such trumpeted progress existh among these Fhites and their mixed breeds alone. The pure-blooded asvage still stulks untamed through the forest, or gallops atheart the prairic. Can any one call the name of a single pure Indian of the Barbarew tribes who - except in death, like a wild cat - has done anything worthy of remembrance?

Sequoyar, alias George Guess, the "Cherokee Cadmus," so renowned for the invention of an alphabet, was a half-breed, owing his inventive genius to his Scotch father. My information respecting these Cherokee tribes has been obtained from such men as Governor Butler, Major Hitcbcock, Colonel Bliss, and other distinguished officers of our army - all perfectly conversant with these bybrid nations.

While, on the one hand, it mnst be admitted, tbat animale possess a limited degree of reason, it is equally true, on the other, that the races of men also bave their instincts. They reason, but this "reason," as we term it, is often propelled by a blind internal force, which cannot be controlled. Groups of mankind, as we have abundantly seen, differ in their cranial developments; and their instinets drive tbem into lines diverging from each other - giving to each one its typical or national character.

The Egyptiens, the Aasyrians, the Jewa, the Greoks, the Bomans, the Celts, the Chineae, or the Hindoos, bave not been solety guided by simple reawn. Esoh type possessed, at the! start, mental intinct, whiob, driving reason before it, determined ench national character. The earliest civilisation known to ut is that of Bgypt; and from this foundation, it is commonly said, all more modern civilizations aro derived. Of this, bcience is by no means cerlain. From Egypt, the stresm is supposed to have flowed steadily on, throogh Assyria, Palestine, Tyre, Pertia, Greece, Rome, Ganl, Germany, Aptin, Britain, until it crossed the Atlantio to our Pederal Uaiod. Certnin it is, that Western Europa has rifted the bonds of berbarism only within recent historical times Europenn races, notwithatanding, possessed those eranial developmenta, and thoes moral ingtinets, which forced them to play their parts in the grand dram, an acon as the light penetrated to them, and that forme of government and stebility became secured. The Celtic and the Germanio racen required no
gradual "expansion of brain," through ouccestive educaled grearations. Created with the fallest "expansion," they only awaited apportunity to praclize it. Bat, what has beon the bistory of the derk races? When the atream originating in old Oriental civilization bounded actross the Ausutic, instead of emulously kinking of its glorions maters, the aborigines of America have auccumbed benesth ita eddy, as though it achaled an epidemic pestilence.

The Black-African races inhabiting the South of Egypt have been in constant intercourse with her, as we prove from the monuments, during 4000 years; and yet they have not made a solitary step towards eivilization - neither will they, nor can they, until their physical organization becomes changed. With our verbal reservations about the term "Caucasian," [supra, p. 247,] the following paragraph, from the trenchant pen of Thbodorb Parker, apeaks incontestable truths:-

[^139]It is vehemently maintained, that mankind must be of common origin, because all men are endowed with more or less of reason, with some moral sense, and are impressed with the idea of responsibility to a Supremo Being; but the very statement of such proposition carries with it tho conviction that it is simply an hypothesis, unsupported by facts. No line can be drawn between men and animals on the ground of "reason," and more than one of the savage races of men possess no perceptible moral or religious ideas.
If the Bible had been so construed as to leach that there were, from the beginning many primitive races of men, inetead of one, the psychological grader would doubtless hate been regarded by everybody as presenting the plainest analogies when compared with the apecies of inferior animals. It would bave been allowed at once; that beings so diatinet in physical charactera should naturally present diversity of mental and moral traits All the apecies of equide exhibit cerrain hahita and inatinote in common, whilat differing in othert Amongst carcivora, the felines - such as lions, tigers, panthers, leoparde, lynyes, cats present a unity of moral and iotellectnal obaracter, so to say, quite as atriking as that dirplayed by the buman family; and, eciedtifeally apeahing, there is just as mach ground, at this point of vier, for saying that all the felines are of one " opecies," 4 all the various types of mankind.

Nor can any valid argament be dramn from erenence in a God, or in a fature atata There exists among buman races not the slightest unity of thought on these recondito pointa. Some believe in one God; the greater number in ranay: some in a fature atate, whilst others have no iden of a Deity, nor of the life hereafter. Many of the Africad, end
all of the Oceania Negroes, as miscionaries loudly proclaim, possess only the crudeat and most grovelling superstitions. Sach tribes entertain merely a confused notion of "good spirits," whose benerolence relieves the sarsge from any fatiguing illustration of his gratltade; sad an intense dread of "bad spirits," Whom he spares no clumsy sacrifice to propiLiate. Dld apace pertith I could produce bintorical testimonies by the dozen, to overthrow that postulate which clefms for aundry inferior types of men any inherent recognition of Divine Providerce - in iden too exalted for their cerebral orgenizations: and which fa fondly attributed to them by untravelled or unlettered "Caucsaians;" whose kind-hearted simplicity hes not realized that diverse lower races of humanity actually exist uninvested by the Almighty with mental facuicies adequate to the perception of religious seatiments, or abstract philosophies, that in themselves are exclusively "Caucasian."

Men and animals are naturally imbued with an instinctive fear of death; and it is perhaps more univerasl and more incense in the latter than the former. Man not only abuddera instinctively at the ides of the grave, but his mind, developed by culture, carries him a step farther. He shrinks from total annihilation, and longs and hopea for, and believes in, another axistence. This conception of a futare oxistence is modified by race and through education. Like the pre-Celtes of ancient Europe, the Iadian is atill buried with his stone-beaded arrows, his rade amulets, his dog, \&c., equipped all ready for Elysian hnotiog-fields; at the asme time that many o white man imagizes a heaven whers be shall have nothing to do but sing Dr. Fatts' hymas around the Eternal throne.

It matherg not from whatever point we may choose to view the argument, unity of races cannot be logically based upon peychological grounds. It is itself a pure hypothesis, which one day will case to attract the eriticism of ecience.
In a Review by Geo. Combe of Morton's Crania Americana,ses may be found a most interesting comparison of the brains of American aborigines with the European. Comparisons of any two well-marked types would yield results quite as striking. A few extracts are all we can afford from an article that, commanding the respect, will excite tbe interest of the reader.
"No adequately-ingtructed naturaliat doubts that the brain is the organ of the mind. But there are two queations, on Wich graat difference of opinion contiones to prevail : 1. Whether the size of the brain (health, age and constitution being equal, has any, and If eo, Fhat infuence, on the power of mental manifestations ! 2. Whether different facoltien are, or are not, manifested by particular portions of the brain."

I believe that all scientific men concede that brains below a certain size are always indicative of idiocy, and that men of distinguished mental faculties have large heads.
"One of the most singular features in the bistory of this continent is, that the aboriginal racef, Fith few exceptions, have perished, or constantly receded, before the Anglo-Saxon race; and have in no inatonoe [pot even Cberokee] either mingled with them as equala, or adopted their manners and sivilizstion."
"Certain parts of the brain, in all clagses of animals [says Cuvier ${ }^{600}$ ] are large or small, eccording to certain qualities of the enimals."
"If then there be reason to helieve that different parts of the brain manifegt different mental faculties, and if the gize of the part infuence the power of manifesiation, the neceasitg is rery evideat of taking into considerstion the relative proportions of different parto of the brain, in a physiolegical inquiry into the connection between the crania of nations and their mental faculties. To illastrate this position, we present exact dratings of twu easts from natare; one (Pig. 858) is the brain of an Ameriean Indinn; and the other (Fig. 864) the brain of an European. Doth casts bear evidence of eompression or fastening
out, to some extent, by the pressure of the plaster; but the European brain is the fiatter of the two. We have a cast of the entire head of this American Indian, and it corresponds closely with the form of the brain here represented. It is obvious that the absolute size of the brain (although probably a few ounces less in the American) might be the same in both; and yet, if different portions manifest different mental powers, the characters of the individuals, and of the nations to which they belonged (assuming them to be types of the races), might be exceedingly different. In the American Indian, the anterior lobe, lying betwean

Fia. 858.


Fig. 354.


AA and B B, is small, and in the European it is large, in proportion to the middle lobe, lying between B B and CC. In the American Indian, the posterior. lobe, lying between C and D, is much smaller than in the European. In the American, the cerebral convolutions on the anterior lobe and upper surface of the brain, are smaller than in the European.
"If the anterior lobe manifest the intellectual faculties - the middle lobe, the propensities common to man with the lower animals-and the posterior lobe, the domestic and social affections - and if size influence the power of manifestation, the result will be, that in the native American, intellect will be feeble - in the Earopean, strong; in the American, animal propensity will be very great - in the European, more moderate; while, in the American, the domestic and social affections will be feeble, and, in the European, powerfal. We do not state these as established results; we use the cuts only to illustrate the fact that the native American and European brains differ widely in the proportions of their different parts; and the conclusion seems natural, that if different functions be attached to different parts, no investigation can deserve attention which does not embrace the size of the different regions, in so far as it can be ascertained."

Prof. Tiedemann admits that "there is, undoubtedly, a very close connection between the absolute size of the brain and the intellectual powers and functions of the mind;"asserting also that the Negro races possess brain as large as Europeans: but, while he overlooked entirely the comparative size of parts, Morton has refuted him on the equality in absolute size.

The above comparison of two human brains illustrates anatomical divergences between European and American races. Could a complete series of engravings, embracing specimens from each type of mankind, be submitted to the reader, his eye, seizing instantaneously
the cerebral distinctions hetween Peruvians and Australians, Mongols and Hottentots, would compel him to admit that the physical difference of human races is as ohvious in their internal hrains as in their external features.

Let us here pause, and inquire what landmarks have been placed along the track of our journey. The reader who has travelled with us thus far will not, I think, deny that, from the facts now accessible, the following must be legitimate deductions:-

1. That the rerface of our globm is naturally divided into several soological provincet, each of which is a distinct contre of creation, posessing a perulicr fauna and fora; and that every opecies of animal and phant was originally asigned to its. appropriato province.
2. That the human family offers me excoption to thin general lave, bed fully corformt to if: Mankird being dividrd info several groups of Races, eoch of which constituter a primitive eloment in the fauna of its peculiar provisce.
3. That kistory afforde no aviderce of the tranuformation of one Type into another, nor of the origination of a new and Psemanext Type.
4. That certain Typet have been perkanant through all reeorded tiane, and despite the maat opposite mowal and physical infilences.

5. That certain Types have ezinted (the same as now) in and around the Valky of the Nite, from ages antaior to 8500 years B. ©., and consequerthy long prior to any alphabetic chronicles, sacred or prafane.
6. That the ancient Eyyptians had already clastified Manhinh, at krown to thern, into roun Races, previounty to any date aerignable to Moses.
7. That high antiquity for dintinct Races in amply nutained by binguistic researches, by pryehological hintory, and by anatomical characteritica.
8. That the primeval exitence of Man, in videly aparate portiont of the globe, is proten by the dincovery of his oweoms and indudtral remains in alluvial deposits and in diluoial drifte; and more especially of his foevil bonet, inbedded in various rocky atrata along with the vestiges of extinet opecies of animale.
9. That prollficact of diatinat species, inter ae, is now prood to be no tent of common ortain.
10. That thone Racer of men most aparated in phyrical organization - ouch as the blacks. and the whitis - do not amalgamale porfectly, but obry the Lawe of Hybridity. Henco
11. It follows, as a corollary, that thers exith a Grwia Howo, embracing many primordial Types or "Specties."

Here terminates Part I. of this volume, and with it tho joint responsibilities of ite authors. It remains for my colleague, Mr. Gliddon, to show what light has been thrown by Oriental researches upon those parts of Scripture that bear upon the "Origin of Mankind."
J. C. N.

## P.ART II.

CHAPTER XIV.

## THE XTH CHAPTER OF GENESIS.


#### Abstract

"Conailium igitar fait tractatui de Paradino pro appendice aubnectere breas expositionem decimi capitis Geneseos de homani generis propagatione ex atirpe Nox. Ex quî non veteres modo sed at nowitios interpretes homen ignoratione a sacri Seriptoris scopo mepe aberase paterct. . . . . Itaque hoc restal rijeum, it ad ascram anchoran hoc ent ad Scriptoram confuginmus: Qub mon solum in genero dotet omner homina ex ont aanine esse editor, nempe ex Adamo in creatione, et poet dilacian ex Noâ et tribus filiis, sed et recenset nepotes Nom, et qui popali ax tingulis ortom duxerint"





## Preliminary Remarks.

Two centuries intervene, as well as many thousand miles of land and water, between the complction of Bochant's unenrpassable labors and the seemingly-sudacions resumption of his inquiries in the present volume. The suthor of Geographia Sacra would smile, with more complacency perhaps than some of our readers, did be know that the edifice raised by his enormous crudition, in old scholastic Belgium, had been taken to pieces stone by stone; and, after a scrutinizing, but frugal, rejection of time-rotted superfluities, has been reverentially rebuilt, in the piny-woods of Alahama, on the rough, though beauteous, shore of Mobile Bay.

It is with some regret that, in order to compress their work into a portable tome, the authors lop away unsparingly the evidences of studies to which many months were conjointly and exclusively devoted: but, at present, they must content themselves with the briefeet synopsis of results. Their references indicate the sources of all emendations proposed - by far the greater hulk of which (with the sole exception of Michalis's criticisms of seventy years ago) ${ }^{s 68}$ arise from discoveries made by living Egyptologists, Hebraists, Cuneatic-students,
and similar masters of Oriental lore. These references will establish, that, in tho conscientious application of enlightened learning to the Hebrew Text of Xth Genesis, commentarics of the genuine English evangelical school have ever played an insignificant part. Where the latter sometimes happen to be right, their facts are taken - generally at second-hand, and mostly without acknowledgment-from Bochart: and wherever, more frequently, they are wrong, they have eithet ignored his text or the very-accessible criticism of Continental archaologists. Of trivial value in themselves, such popular commentaries possess less weight in science; and, having wasted their own time in hunting through dozens of them for a new fact or an original ohservation, the authors will spare tho reader's hy leaving them unmentioned.

> "Prisorsm mendax commenta est fabula patum, Sincerrmque nihil, nil sine labe fuit.
> Sordiour er ittis densa es ealigine lucem Eruere, humane non fuit artia opus.
> Desperata alis unur tentare Bocrantvs Aurus, et ignotas prinum inire sian."
"The ethnographio chart ${ }^{6 E}$ contained in the tanth chapter of Gebenis, presents," says Dr. Eadie, "a brood and inferesting field of investigation. It carries uabsok to a dim and remote ors - Then colonization was rapid and extengive, and the princes of successive bands of emigrants gave their names to the conntries which they seized, acoupied, and divided among their followers. This ancient record has not the appect of a legend which has arisen, no one can tell hor, and received amplifestion and adornment in the course of ages. It is nither a confused nor an unintelligible statement. Ite sobriety roaches fof its sccaracy. As ite genealogy is free from extravagance, and as it presenta facts without the music and fiction of poetry, it must not be confounded with Grecian and Oriental mythe, which is so shadowy, contradictory and baseless - a region of grotesque and cloudy phantoms, where Phylerahs are exalted into demigode, borr of Nymph or Nereid, and claiming nome Atream or Biver for their aire. The founders of nations appear, in auch fables, as giants of superbumen form - or, wandering and reckless outcasts and adventurers, exhibiting in their nature a confused mirture of divine and human attribates; and the very ammes of Ourancs, Okeanos, Kronos, and Gaea, the occupants of this illusory cloud-land, prove their legendary character. In this chapter there is, on the other hend, nothing that lifts itaelf above valgar hamanity, nothing that might, nothing that did not happen in those dis. Lant and primitive epoche. The world must have been peopled by tribea that geve themselves and their respective regions those geveral names which they have borne for so many ages; and what certaisly did thas occur, may have taken place in the method eketched in these Mosaic annals. No other aceount is more ilikely, or presents fower difficulties; and, if we eredit the inspiration of the writer of it, we shall not ouly receive it as authentic, but be greteful for the information whidh it containg. Modern ethnology does not contradict it. Many of the proper names occurring on this roil remain onchanged, as the appellations of races and kingdoms. Others are found in the plural or dual numher, proving that they bear a personal and nations! reforence ( $G e \mathrm{ck} . \mathrm{x} .18$ ) : and a third class heve that peouliar termination whioh, in Hebrat, signifies a sept or tribe (土. 17)." 50

The above seholar-like definition of what Dr. Hales styles "that most venerahle and valuable Geographical Chart, the tenth chapter of Genesis, ${ }^{m}$ indicates the ahsolute impossibility of ohtsining satisfactory
glimpses of a large portion of humanity's earlicst migrations without discussing, at the very threshold of inquiry, that antique document. Apart from this fundamental classification of some hnman primordial wanderings, bootless indeed would be attempts to follow the cobweb threads of our own ancestral creepings, backward from Americn to Europe, and thence to their primitive European or Asiatic startingpoints. Every aboriginal tradition wo Anglo-Saxons cherish, is but ${ }^{n}$ ray of morning light, flitting though it be, projected from the Aurora of our Eastern homes.


#### Abstract

"The Oriat, with ber immene reoolleations that touch the eradle of the world, wh this itself tonches the credie of the sun, with her seas of sand, beneath which nations lie forgotien, endures still. She preserces, yet living in her booom, the fret enigme and the first traditions of the haman race in bistory as in poetry, in religions menfealetions as in philosophical speculations, the Bast in ever the antecedent of the West We must therefore soek to know her, in order to booome well coqueinted with ourselven." $5: 2$


But, before the historical character of this E(hnic map can be appreciated - before our unhesitating acceptance of it as a witness demonstrably credible - its antiquity, its nature, and its authorehip, are indispensable points of preliminary inquiry.

The authors of the present work, impressed with the necessity of using the Xth chapter of Genesis as a "ground-text" for a large section of tbeir anthropological researebes, coincided in the opinion that nu "Arcbæological Introduction to its study" ought to preface their adoption of its data. In consequence, it was decided, that the labor mvolved in such undertaking sbould be allotted to that one of the writers whose Oriental specialities naturally indicated him as performer of the task. Too complex in nature, no less tban too hulks in size, to serve for a chapter in the text of "Types of Mankind," this Archeological Introduction now becomes a Stpplement to the work itself; thereby preserving its orn unity; at the same time that to the reader it is equally accessible, being bound up in the same volume.

The perusal, then, of the Supplement is recommended to the reader previously to bis further continuation of this work; because the paragraphs upon Xth Genesis, hereto immedintely following, are projected under the impression that such will be the natural course.
Which taken for granted, we place before us Cahen's Genese, ${ }^{\text {sin }}$ for the Hebrew text of Xth Genesis, and procecd to its eritical dissection. The method we shall adopt, if at first sight novel, will be found strictly archmological. It would be unphilosophic to set forth with any theory as to age, authorship, or true place, of this document, in the arrangement of the canonical books. These points can reaile solely through exegetical analysis of the document itself; whichwritten in the equare-lether Hebrew character (not invented prior to
the third century after c .); divided into words (a system of writing not introduced in the earlicst Hebrew MSS.- tenth century after c.); punctuated hy the "Masora" (commencing in the aixth, and closing ahout the ninth century after c.); and aubdivided into verses (not begun hefore the thirteenth century after c.) - now presents itself to our contemplation.

## Section A.-Analysis of the Hebrew Nomenclatore.

Omitting, for the present, any comment upon verse 1: "Behold the generations of the children of Noah, Shem, Ham, and Japheth; they bad children after the deluge " - our point of departure is verse 2. "The children of Japheth," eldest of the three brethren; whose descendants, upon grounds to he justified hereinafter, we denominate

## Ispetids, or White Races.

[ Before proceeding, let me mention that, after our Gerealogical Tabla mas in type, Prof. Agassiz favored me with the lonn of by far the most Important work I have ever met with on Japethic questions: vis., Voyage autour du Caseane, ches hes Teherkesses at Abkhases, en Colchífe, en Georgic, en Armenie, et en Crimés ${ }^{574}$ par Fazdebtc Debors de Mostprabex. Extreme was my eatisfaction to perceive that our rerule not only had been anticipated, but that they vere so aceurste as to demand no alterations of the Table. Following the profound researchea of Omalites dy Hallot, sis and of Count John Porocers, bss the permona: explorations of M. Dubois supersede everything printed od "Caucsoian" bobjects, I have made the freest ase of his ethnological inquiries, as will he peroeived under each Japethic, name; but it is not in my power to convey to the reader adequate lnowledge of the maps with which this magnificent folio Atlas is profusely adorned. On these, the successive diaplacements occasioned by the migrationa, \&c., of ancient "Caucasiens" are so skilfully shown, that one's eye eizes instentaneously some 2500 years of hintory. To take GoMeR, or Kimmeriaw, as an example. Deginning in the


Now, on sach mapp, the transplantations of these Kimmerians cen be followed, alwost sta. tion hy atation: so minutely, that one might infer that GoMol-ians became known to the Hebrew geographer after they had abandoned the northern Tauride to the Scythians, b. c. 893, and had eettied about Paphingonia, on the nouth-eastern side of the Blact Sea And so on with all the Iapetides of Xth Genesis. It need hardly be sad that, in common with Bochart and ourselves, Dabois perevives nations and countries, and not individuala, in the Hebreve ahart -G. R. G.]


1. 1- 1 - GMR - 'Gombr.'

Basentially Indo-Germanic, this name, as well as all those of Japothites, is imesolvable into Semitish radicels; and its Hebrew loxicographic affities, such es to 'complet, conoume,' \&c., are rabbinical, spurious, and irrelepant.
(1 Chron. i. b, 6) -"Gomes, and all his bordes-" (Ezek. muxiii. 6). In Homer and in Diodorus, $\mathbf{x}$ ı $\mu$ pepior ; in Herodotus, Boaropos $\mathbf{E}$ t $\mu \mu$ ifitas. In Josephas the Gabata are called 「opapus; possibly also understood in the Scytho-Bactrisa Chomari, Comari, of Ptolemy. These are, andonbtedly, the Gomerians, Cimmerians, Crimeans, who, under the various forms of Cymr, Kymr, Kumaro, Cintri, Cambri, and Galata, Gaeth, Gauls, Keite, Celts, figare as a branch of Celtic migrations in later Eurapean hislory. If Celtic migrators be considered anterior to the age of Xth Genesis, we should not besitate in adopting the Gernanic Sigambri, Sicambri; or the Gambrivii, or the Gamabriuni, as memorials of 'Gomer.' Ravilingon evolves 'Taimri' from the cameatic legends of Khorsahad.

The name GiMeRian, in endies forms, is acattered from Asia Minor to Scandinaris, for the following historical reason. About the year s. c. 638 , the scytho-Khacirs erpelied the Kimmerisns from Kimmericum. One set of sugitives sought naylum in Weatern Europe; while the other akirted the eaatern shores of the Black Sea; and, setting in and aroand Pbrygia, became known to the writer of Xth Genesis. Bochert bud happily remartsed "Itaque omnibus expensis terra Gamer mibi videtor ease Phrygia, cujus portio est regia Katakkaryim." This word signifes the " bwnt-district:' and Dubois thoroughly establighes that the volcanic nature of auch Kimmerien localities explains all their mythic associations with the infernal waters, Styx, Pbegethon, Cocytus, Acheron, \&c., which cluster around the naphtha-springa and mod-volcanoes of the present Iénikale.
The Tauric Chersonesus, north of the Black Bea, would seem to have been the extremest geographical boundary assumed by the Hebrow writer; and by os simple transposition of letters, GMR (GRiMea) is atill apparent in the name of this early Kimmerina balting-place, viz.: the Crimea.57

## 2.

Indo-Germanio, or Scythic; and, therefore, not the Hebrem " be who coners and disolves." (Gen. x. 2; Chron. i. 5; Ezal. muxvii. 2; muxix. f).
Magog is not associated with Goo ontil the times of Exekiel, during the Captivity, from about 'the 30 tb year' of Nabopolasaar, 695 日. c. down to 572 b. c. (Ezek. i. 1; xuxix. 17). In the post-Chriatian bat uacertain age of the writer of the Apocalypee (between A. D. 95 and the Council of Laodices, which rejeated it as apocryphal, 360 369, A. d.,) 'Goa and Na000' appear together as nations (Ret. xx. 20); wherean, seven to eight centuries previously, Coo, "the Prince of Rhos, Meshech and Tabal," would seem to have been underatood as the proper name of a king. King James's version (Ezek. yxyviii. 2, 8, \&o.), by "Chief prince of Meshech and Toubal," effacea HAS (i. e. RHos; the river Araxes, and the nation Rhox-Alanj, or Alains), and perpetnateen an error delected by Bochart 200 years ago.
arab tradition, under the appellacives Yadjoos and Madooos, prolongs the union down to the aepenth century after Christ; with the commentary, that they are two nations descended from Japheth; Goo being attributed to the Turks, and Macoo wo the Gucian, the Geli and Gelm of Ptolemy and Strabo, and our Alani
In ancient Greek and Latin, Tyas, Gygan, read nlso Gug-as, signified giana; and oriental legend associatod giants with Scythians in the north of Asil Manog han heen assimilated to the Masaggeta (perhaps Mana-Getm, Huwion-Getm, of Mount Afariss) \#bo are to Gete what Magoo is to Goo; the prefixes of ma and masoa being considered intensitives to indicate either the most honored brapch of the nation, or the whole nation itaelf. Tacitus and Pliny mention the 'Chaucorum genter' and the Chauci, among powerful tribes in Germany at their day; and Goo may underlie these migrations
Eekeiel groups Goa with Rhas, Toubal and Afshech; and, inagmach as Roxalani, Tibareni, and Moschiu, no less than the transplanted Crimeans (Gomar), were geographically located in Asin Minor, between the Black Sea and the Caspian, the hahitats
of them ell lay in that region By Strabo, the country of Oog-arene (Gog-airanian? aìr = man ; 'man of Catc-Laus' ') is placed near that of the Moschi. Josephus renders the name of Magoo by Seythiant ; and Jerome, "Magog ense gentes Scythicas fmimanes et innumerahilea, quex trana Canosaum montem et Møotidem paludem, et prope Caspium rosre ad Indiam asque tendantar."

But, ingenious as thay are, such etymologiea become henceforth saperfluous through Dubois's excellent eaggentions. The Hebrem word is Ma-GUa. The firat syllable refers to the Moiala, Mates, Mates, Meoterr tribes of the Barmateb, royal-Medes, SauroMadai, (i. e. Tauric Mediens, transplanted from the Tauras to the east of the Caspian,) of the Sea of Axof. The second syllsble, GUG, is simply the Indo-Germanio word Khagh, 'mountain' (ss in the celebrated diamond, Koh-m-noor, 'mountain of light'); which has been preserved in the Hellenizel name Kauk-asos, or Cauc-sens, from the time of Herodotus, a. c. 480; en also in the "inscriptlon de Périsades, premier arohonte du Bosphore, en 849 avant J -c." Having thus fixed GUG to a 'mountain,' Cauc-asos, the root of asos in instantly recognised in the national name of the Oscc, Oseeth, Yases, Ades, Asi; whence the continent of 'Asia' derives ita European designation. These Ossed, or As, are tracoable in the ancient Jazamatas, or Yas-Meotes, as perfectly as in the moders Jasiget, Yarygkes (or Yar-Djike), 'Jaz-Djiks'; who now call themselves Tcherkesses, by us corrupted into 'Cirosssisns.' They bave been likemiae termed Oosni, Acian, Ahas, and oven Kergis, by the old travellers ; and while the first syllable
 Abkh-Ates-mountaineers, it hass been borne to Ataland (land of the Ass) no less than $\omega$ Asgard (eity of the Ase), in old Scandinaria. In this manoer ably sume ap Dabois, "As far back as biotory mounte, she finds within the angle circumscribed between the Casc-asus, the Palus Méolis, and the Tanais, an Axia-proper, inhahited by a people, "AS,' of Indo-Germanic race:" and we discover, in the Ma-iotes of the 'moantain' Cauc-asus, the long-loat and myatified nation, Ma-GOG, of Xth Genesis.
Thua, this collective name of Maooo designated one of many barbarous Caucasien bordes, roaming of yore between the Euxine and the Caspian, including, probably,

- Qothic amid Bcythic families; and Goo bas leff, oven to thia day, besides the living Osses, a trail still visibie in the very etymon of his andient bomestend, the CAUC-Arian moontains. ${ }^{\text {57 }}$


## 8. 'ص-MDI- 'Madai.'

Indo-Germanic, or Seythle. Not Hehrew, 'coreriog,' 'cont', \&e.
The LXX transcribe Mabou, in lieu of mado. The Persien word madhya, the 'middle,'
its aupposed derivation. Herodotra nounted seven nations, and eays their ancient name was Arioi, the 'braves'; that in, Ariu, 'Arlans.' It is probable, howerter, that the root air, which in Scythic tongues means ' man,' may have been mesimilated to Ari, 'lion,' in the elien speech of Somitio nations. The name is apread over a ynat area, from Arhon, 'Armenis,' through Irdn, 'Persis,' to the conquaring Aryas, Ayras, of Hindostal.

In primitive timas, the origines of all nations ware personified; and, secording to Strabo, Medus, won of the mythologicel Jasom and Medea, was the progenitor of the Medes. The name Madad oceara in the seventh centary, written in Aesgrian coneiform, on eculptares from Khorsebad; and Rawhiason trenecribee Modiya from the innumerable legends of Bohiston and Persepolis, deciphered througb his soomen.

Rage 'Medie,' was oalled Ruka by the Egyptians of the XVIIIth dyuasty; and perhapa Matai is Media itself.

The name Mede atill surrives in Hamadan (Eobatans), just an that of Arian (Aria, Arii) in the HaRA of 1 Chron. r. 2 . .

They are the Neches: and forther reference to Scriptoral or to clasgical passagea, is their case, is superfluous. ${ }^{50}$
4. "Y-IUN-‘JAVAN.'

Indo-Germanic; and not from the Hebrew, 'mud', or 'oppreceor.'
In this instanoe, the Masoretic point (not added to the Text until after the firth ctrr tury of our era), and the modern Jewiah reading of $V$ for U , alone obscure a name whose literal meaning springa out at firat glance.
"The harbarians called all Greeks by the dame of Ioniann," esays the Scholient oo Aristophanes: and the Greeks revenged thembelves by temaing all other people burbariart.
 to be distinguisbed from the later luarc, ecocording to Palleanion. Herodotuf resounta how the Atherians, previously called Pelangi, received the name Ionian, from ION, som of $\bar{X}$ uthur ; the traditionary ancestor of the Ionien race.

In Danirl xi. 2, where King James's version rendera Gretia, the original has IUN; hut the age of this document not ascending earlier then i. c. 175-160, in the reige of Antiochus Epiphanes, we go back to the 27th Mareb, B. c. 198, date of the coronation of Ptolemy Epiphanes at Memphis, recoeded on the Raveta Stone; where the wotd cingrouns, in Greck, is rendered, on the correaponding demotic and himoghpphic texts, by IUNiN: s name given by Egyptians to the Greeka at every ege, back to the earliest recorda we poseess in which Ioniant are meationed - documents anterior to Xth Get esia by some centaries, because ascending to the XVIIIth dynasty.

Upon the Assgrisi monuments of Khorsahad, the same name, Jaocsin, is read by cuneiform echolars, as early as the eighth century s.c.; and opon the Persian secolptures of the Achemeniden dynarty, in the sixth century $\begin{aligned} & \text {. c., the Greaks, se YONA, }\end{aligned}$ or Ionia, frequently appear.
Javanar, or Yavanas, is the Hindoo appellative of the Greeks, in the "Lams of Manou," who thersin are classed among the Soudrat, or 'degenerates'; and, although the fabuloas antiquity of those Eanscrit records bas suank far below the preteasions of the so-called Hosaic, their compilation certainly ascends to the foarth ceatery of our ere, if not beyond. While, finally, among the Arabe, ancient and moders, Poonda to the generic name for Greeks in general, and Ionians in particalar.
Dy IUN, or Ionian, the writer of X'th Gencrin seeme to clana the Greeks collectively, as far as they were known to him; and Ionia, on the western coagt of Asis Minor, is the approxlmate limit of its geographical applioation.80

## 5. '

Indo-Germenic. Not the Hebrow, ' be who is conducted,' \$ce.
The LXX place before Thubal another son of Japheth, called Elima; bat Isaian, by exiling "those who escape" to "Tubal end Javen, the states afar off," shows that, in the ides of the writer of the second (or aparioas) part of the oracles ascribed to this prophet, Thubal ranked among distadt northera nations of the gentile vorld. Conneeted, in Rzekiel, alwayt with Heshech, by whom Tubal is immediately followed in Xth Gemeris, these two aations of the "uncircumoised" mast have lain close together in Hebrew geography.
Iboia, from the roota raz, and orep, 'beyond,' or, so to any, 'the yonderer,' whes the name of an Asistic conatry east of Colohie, sonth of Cancenas, west of Albania, and north of Armenis ; in short, corresponding to Georgia of the preseat day; clessically denominsted Imeriti. The sabatitation of a for $\boldsymbol{M}$, at once chenges the Imeriti into the Io riti: to which profining the antique particle r , we obtain the t -1barenes of Herodotas and Straho: a denignation equivalent to ultra-Caneasians. The word Sterian, in the sense of 'yonderer,' was given to meny remote nations by aliens to the formere' sutoethonous traditions.
Identifed as the Trdapnvor of Strabo, who, by Herodotug, are located with the Hoamki
they seem to have been aubject to Gog, Cadc-Aous, in the daye of Ezehiel, and to have sapplied slaves and braxen yeasels to the baxenta of Tyre.

Through the common mutation of a for y , Tubal in fixed among the Tibareni, (about Pontua, on the south-east of the Black Ben, in the neighborbood of Colchis,) from antebistorical times down to the Cbristian ers; and it is in vain, therefore, that Spanish orthodory, in efforts to affiliste its ancestry with some Genesiacal worthy, (confounding the Celto-beres with the lberians of Asie, should claim Tobal as progenitor of Spaniards.
"The identity of Thobel, or Tubal, with the Georgians," holds Debois, whilst subatantating Hoahart, "is nowadays well recognized; becasse Flavius Josephas expresaly saye, that Tubal represented the Iberinas of his time, the Iberisns of Pliny, of Strabo, of Procopias, who are the Georgians of our day. The transition between Tubal and Iberia is the Tibarmi of Herodotue. This name has never been, among the Georgians themeelves, that of the nation; they give themselves the generic name of Karthies: but it has remsined in their capital Tbalimi, our TiBis." The root vesp, oter, 'cltra' probably underlies Tibar-eni, and its Hebracized form of TolbeL; as well in the Hispanian Ileres, as in the Caucasian Iberians - both being a "people beyond." fal
6. $7^{7}$ ص-MSK - 'Mesiech.'

Indo-Germanic. Not from the Hebrew, 'drawn with forco,' \&o.
Erroneously substituted for the Shemite Mash (in 1 Chron. l. 17), and confounded with the Arabian Meseq (in Psalm cm.), by the forty-seven translators of King James's rersion; mere analogy of anond has led some commentators to behold in Mesirece the parent of the Murovikes, incarnated founder of the city of Hoscosol At the same lime that the Arsbic vernion transcribes Rhorastan?

As above atated, "Tuhal and Meahech" were deemed cognate astions by tha writer of Xtb Generis and by Ezekiel; confirmed by Herodotus - Mooxovs pav nat Tsfanfrous; and the concurrent testimony of Mela, Pliny, Stephanus, and Procopius, places the Morxol, or Merxan, on the Moachian range, adjacent to Iberis, (Tubal,) Armenia, and the Colchide, between the Black and Cespian sens; acill called Hesidji-ddgh, or 'Meshecbmountaine,' by the recent Turks. The Miset of Rawlinson's cuneatic ingeriptions ?

More ancient than olasaical, Hebraical, Asayrian, or other extant annals, is the name of Meanecr. Early as the age of Rames II., in the fourteanth - fifteenth century B. c., or prior to the fugacious era of Moses, (evea supposing the Xth chapter of Generis to proceed from his individuality,) the Haaru, [Masii, Moschii,] whose cogromen is still preserred in "Mons Masius" of the Taaras chain, are chronioled on Egyptian papyri, insoribed in days contemporsary fith Ramben's reight
'Moskbes' is the Georgian appellative for the people of Moskhike, or Moschic. They were a mixed popelation of primitive Phrygians (Thargemosians) and Medes, on the sonthern alope of Caucsaus; who in elasaical geographies, as the Monunicoi, Horyncei, Morchici, sre always neighbors of the Colchians, the Tibartni, the Khalybes, \&o.; while Exekiel, as above shown, groups together, in the Land of Gog (i. e., Ceucasus), nacicus under the avay of the "Prince of Rhos, Meshech, and Tabel;" that is, the Araxians, the Heakhes, and the Iberians - inhabitants of that monntainoustegion.

Mz8BECH and Hachi are identified, sea,

## 7. תירם - TtIRS - 'Tiras.'

Indo-Germanic. Not hebraically, 'demoliaher,' \&o.
Occurring hut twice, no light ans be gathered upon thin appellative from other Diblical soarces than the context of Gen. x., and its repecition in 1 Chron. i. 5.

The Armeninn historian, Moses Cborenensis, remarks - "Oar antiqnillea agree in regarding Tiraz not as the son of Japhath, bat as his grandson."

Epac, 'Threcias' is unanimously reputed to be the ethnologloal aynonyme of Thirat ;
and the river Tıpas, 'Tyrah,' of Ptolemy, flowing into the Euxine, now celled Dmienter, to be its geographical, an Thura, Mars, was its mythic, correspondent

TIRoas, and Troat, in weatern Myais, so closaly resombling each other, it is mot impossible that the Trosd is intended by the Hebrow writer; eapecially since the Tanci Were perbape of Thracian origin: but no ressonable objection can be raised to the usual attribution of Tiras; and Thrace, the Thraces, or Thraciane, may be anfely assumed as the " uitima Thule" of Hebrew knowledge, townals the north, in the time of the writer of Xth Geren ; whose dim horizon in that direotion wes daubleas similer to thet of the Egyptians during the XVIIIth dynaty. Smootris (in this nerrative, Remses 1I.) had puahed his conquests into Thrace, mocording to Herodotas and cmited olnsaical tredition, Thriksu, 'Thrscisns,' are recorded in hiaroglyphies at the rained temple north of Esneh, aloong the conqueate of PLolemy Evergetes I. w

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## 8. '1コכשK - ASKNZ - 'Ashernaz.'

Indo-Germanic; and, althongh traced to a 'fint that distile's so alien to Hebrew, that even Rabbinical philologera abandon it as "obeoure." In consequence, some perceive the parent of the Germans !

Oriental Jeme call these of their co-religioniets who are atited in Germany duhkenazim, which has been confounded with the ASKNZ of Xth Genesi; whereng the real source of thie mistake lies in their intonation of the Indo-Germanio name, Saconach, Sarcmak, old form of our word Saxon.

ASKIN, ISQIN, in meny dialoctic verieties, is the national pame of the Barper ; and inatmuch as nobody seems to know whence they came to Bisasyen neighborhoods, Te pans on this suggestive similitude es cautionaly as it was given to us.

Repeated in 1 Chron. i. 6, the "Eingdomg of Ararah Minni, and Askeharaz," aeem to have been limitrophic in the time of Jeremiah - 629 to 588 в. c. - and henco the province termed Aaikinems hy Strabo has been looked upon as its equivalent

The Phrygians appear to have been anciently called Areasians; and footprints of this migratory name are tracesble throughoat Dithynien vicinities, in Sinur-A ecanime, Ascanius-lacus and amnis ; sod likemise in Lesser Phrygis - Areania, and AscerirInrulc. Ascaxius, son of Aneas, hore the original patronyme from Trons to Latium Dordering on the Black Set, thete Ascanian similarities receive nataral explamion through Pliny, "Pontus Euzinur, quoudnm AXENUS; " and Ebfam, the Eurinc, or Black Sea, preserves a mnemodic of Ascaniant and Ashtenay.

Raminson perceives anslogies between Askenaz and the Arsakas mentioned in cunelform inseriptions of the Kimroud obeliak, the date of which is mow asnigned to abeut 860 в. с.
"Pontus," anys Bocharh "olim Ascenax, Grwee 4 Kwos, quasi inhospitalis dietas;" which weara vory much the gaiae of an Hellenje play opon a foreign word. Polocti; followed by Dubois, "flads the Askhanaz (Rheginians of Flavius Josephue) in the My sian-Askanians, who came from Great-Mysis, and eatablished themselves in the Phry gia of Olympus: it was a Germanic colony." May not ASKN, as Ascanian, or as Eurise be an adjective to $a Z$, the $A s i$ ?

Suffice it for our purposes, to accept the southern cosst of the Ewnine as one of the prigtine hehitats of a people ceiled Asurinaz.se4
9. C - RIPTt - 'Riphath.'

Also Indo-Germanic; not 'medicine,' nor 'pardon.'
Owing to the alight distinction betwean the letters 7, resh, B, sod 7, daledh, D , of the modern aquarelettar charsoter in which the Hebrew text is written, some copyist has
bequeathed to us a dilemma - whether the Riphath of Gan. x. 8, shonid be Diphath, or the Diphath of 1 Chron. i. 6, Riphath! Commentaiort agree, however, in preferring Riphath; and, wbile some, following the pseudo-Josephas, have identified the name with Great Britain, there are many olaimants for France! The LXX read Piqaf, in Xth Genesis.

Josephus reatricts the name to Paphlagonia; in which country Mela places the Riphaces.
Hown Niphutes (saowy), in Armenis, through the substitution of y for a, bas learned defendera Bat the Pixgaca ara, the Riphair montibur, and the Rhipacas placed by Ptolemy where no mountains exist, near his imsginary sonrese of the Tensis, or Don, are the favorite localities chosen for Riphath.

To this view there are weighty objections. If the Monten Rhipai, or Hyperborei, he $^{\text {he }}$ the Ural chain, they were too remote oven for the vision of geographers who wrote at least nine centuries lator than the author of Gen. x . Tbe mere accidental analogy of a proto-sylable-RIP-een with RIP-aTt - when the second radically differs, (the ouly ground apon which the bypothesis resta, cannot be allowed as negative proof agsingt simpler reasons; eapecially when the geographical position of the Riphesa mountains, save as the tenebrous hyperborean limit of Greek goognosy, is utterly anknown.

The writer of Xth Qencris must have had some reason, more or less scientific, for the order in which he mapped out the nstions he enumerates. In the prenent instance, among the "affilintions of the Cimmerian," or Crimen, he places Riphath hetween the Euzine (Ashkenas) and Armenia (Togarma); confirmed by Latin writera $\quad$ bho atation the Rhibii enst of the Eaxine.
"Riphath," adds Dubois, from the anthentic researohes of Potocki, "is the veritable ond most ancient name of the people Shlave. Herdese and Honorioted are but translations of a Sclavonian word whioh aignities honored, diatinguiabed." The Iatina added 4 letter to Enztes; which, becoming Venetes, Veredes, Vendes, Vinides, and Wende, was the title of those Fordo-Shlaves from whom descended the ancient Prungians, together with the present Lithuanians, and whence Venice inherita her name.

Paphlagonia for the coustry, and Riphaces for ite inhebitanta, corroborated by the opinions of Jonephus ond Nels, aufliciently define the position of Flphatz.

## 10. התרמה-TtGRMH - 'Togarmah.'

Indo-Germanic, or Scythic ; not ' whioh is all bone'!
"They of the bouse of Togarmah traded," in tbe fairs of Tyre, "with horses, borsemen, and mules," in the time of Eretich xxrij. 14; snd, besed upon this text, Mases Chorenensia derives the Armeaians, Georgians, \&c., from Thaboaxos, gradmon of Noah.

Its classical bimilltudes are visible in tbe Troemi, Trogmi, aboat Pontas and Cappadocia; and, at the Council of Chalcedon, there was a bisbop, reapuedre, of the Trogmades. Josephun makes Aram, Hiryas, and Khouh, adjacent to Togarmah.

The deme of Armenia now is Arhan, identical with IRAN, Iriana, origisal cradle of Pertiana
Tho "History of Georgis," compiled in the reign of Vakhtang V., King of Karthli, in 1708-21, is one of the mrest works. Dubois trapglatea aome curious axtracte of its commenoement:--" According to these traditions, the Armenlans, the Georgians, the inbabitanta of Rasi (Arran), of Morakani (Chath, Chíroan, and Mougan), of Herrethi (Cakheih), the Leagiens, the Mingrelians, and the Caucasians, all deneend from the eame father, who wan cslled Thaloanos. This Thargamos wan the son of Tarchio, son of Avanan, bon of Jophet, son of Noak, and wan a meliant man." Like Moses of Chorene, in the fift contory, Vakhuang wished to bitch his local traditious on to Biblical origina. The former bistoritan matumorphosed the namet Zrowar, Didar, and Habe.
doath (which he found in an old Cbaldman volume), into "Bhem, Ham, and Japheth ;" and the race of Habedosth, Mrrod, Sirath, and Thaklath, became, in his pious hands, "Gomet, Thiras, and Thorgomas!" "It wis thas that he reconciled the secred vith the profane, and that the Maik of the ancient Chaldean volume, son of Thaklach, wan raperimposed upon Thorgomss, as a descendant of Jspheth." History abounds vith simitar fraqduleat genealogies. Thos, skilfally observes Jardot, "Rabid-ed-Deen, Fizir of the Emperor Gazan-Khàn, has left at the commencement of the fourteenth centory, upon the origin of the Hongole, erroneons notions, which Areb, Turkish, and Persian historinns have copied; nad even Aboo 'l-Ghszee, Qovernor of Kharizm, in 1654. Misguided by a false religious mentiment, Reabid-ed-Deen attoohed the antique tradiLions of the nomed hordes of Asin to those of the Jewn, as preserved in the Korin: Japhet, son of Noah, traneported himself to the East, and it in from him that descend ahe prople of those countries, aftervards partitioned between two brothert, Tatar-Kadn and Mo-goub-Khan. All this recital is fahalons, and does not correopond with any of the eccounts fursished by the Chinese." Even in our dey, the "Canceaisu" missionary is stipended to instit into the ill-furnished crasis of African Hottentate and Australien Papuas the fond hope that they are positively and lineally descended from Has !

The Turks did not approach the Eaphrates from their aboriginal hive on the confinea of Chins antil ahout 1000 A. D. : and coasequently all ascriplions of the name Togarmach to them seem to he lingaistically and historically fallacions. Whether in the appellative 'Turcomen' there be any demonstrable connexion, we will not 'aver or deny. Dut the Armenians, a primordial people upon their netive mountiass, eall themselves "the house of Thorgom;' and there is no good reason to suppose that Armaniz is not.Togatimat. 3 \%

## Gen. x. 4.- בגי - BeNT-IUN - "Affiliations of Ionia."

## 11. אלישה-ALISH - 'Eliseah.'

Indo-Germanic; not, 'God that givea belp.'
Elisa, 'Elis,' on the const of Peloponnesas, one of the earliest historical settiements of Greece, divides with Hellas the hoaor of being catalogred in Hebrow geography. The former, 'Edas, or the Elide, would seem supported by Enre. xxii. 7-"blue and purple from the isles of Elishat;" purple-bearing shells heving been abuudant, ancieatly, on the Laconian shore. The letter, "Eגhat, whence "EAnyrs became the national name for Greeks, does not oppear to have posecssed, in the times of Homer (whose dispated ere cannot be muoh removed from that of the writer of Xth Gonesis), the panHellenic extension it had sequired ahout the fifth centary s. ©., when Herodotas and Thacydides fourinhed : having previously been restricted to a district and town of Thessaly. But, adds Grote, no sooner do we step beyond the "first Olympied, 76 B. c., our earliest trustworthy mark of Grecian time," than the quickeands of mythical legend engulph the criteris by which the relationship of faels can alone be decided. Thus, to the Judaio compiler of Xth Generi, IUN, Jonia, would seem to have been the parept of ELiBaH, Elis, or Hellar. On the contrary, Orecian tradition reverses the order; and Iomia, in Asia Minor, beoomes an affintion of Hellcs, about 1050 geara в c. There is no $S h$ in Greek alphabets, and consequentiy that articniation was foraigu 0 the people. The author of XLh Generit wrote $A, L, I, B, H$, in the unknown alphabet he need. Eliseab, is not older than the Mabors Rebbis. The IXX read 'KAczi.

Bither riew, however, establishes a close affinity between Konians and Hellenes, or Eteans; and Grgetz in general, as well along the ghores of the Moren as on the isles of the Arobipelago, would adequately repreaent the geograpby of Alist; but, is riev of restricted knowledge (and no $S h$ ), it seems more probable tbst SENet and Sa/ia, in Ania Minor, were the nation and country intended by the writer of Xth Gacent. ©

## 12. *า ת - TtRSIS - 'TaRSHish.'

Indo-Germanic (?), or Semitic (? ); not, 'contemplation.'
Perhaps, in endeavoring to attain the exact point of view of the anthor of Xth Genesis, this is the most enigmatical problem left to modern solution; although commentators of the present day slide overits difficulties, and range themselves under one of two schools: the first of which claims Tartessus on the Spanish, the second, Tarsus on the Cilician coast, to be the true locality.

The question is so far important, that in it is involved the occidental limit of the geographical knowledge of the Hebrews at the time when Xth Genesis was compiled; and, as customary, modern orthodoxy, which discovers the Chinese in the SINIM of Is. xlix. 12 - the Negroes in KhaM, Ham, of Gen. x. 1 ! and the "ten lost tribes of Israel" in the American aborigines, contends for the widest interpretation.

Scriptural texts require the word Tarsisisi to be classed under three categories : -
A. - Tarsus, Tapros - now Tarsous, on the coast of Caramania - an ancient city on the river Cydnus: birth-place of Paul, and sepulchre of Julian. Between T/aRSIS of Xth Genesis, or other passages of the text, and TaRSoS, there is no difference, philologically, except a "mater lectionis," or vowel, which, in palmography, is vague. The Masoretic points, like the Greek tonic accents, are unauthoritative, beyond indiosting the traditionary phonetism of post-Christian writers in either tongue: and the Hasora commences only six centuries after Christ.

The amphibious adventure of Jonah, which, the Rev. Prof. Stuart says, "plainly savors of the miraculous," might possibly indicate the Spanish Tartessus, as the correspondent of Tarshish during the uncertain, but recent, age at which this prophetio book was composed - a treatise that must not be confounded with the scientific and more ancient document - Xth Genesis.
[The NaBI, 'Josar,' rebelled against IeHOuaH's command, "go to Nineveh," and therefore encountered the fate from which Perseus delivered Andromeda, viz.: that of deglutition by "a great fish," or monstrous cetus- the Whale: which became a sempiternal emblem of icthyophagy, when, assuming the forms of Cepheus and Cassiepea, it ascended to the heavens, or, as Glaucus, descended to the sea. In 1850, a paragraph, started in the New York "Sunday Messenger" by Major Nоar, went the rounds of the religious and profane newspapers throughout the Union. It asserted that the portrait of the Prophet Jomar had been found on the walls of Nineveh! Here he is (Fig. 855).

Ovarts, Oannes (of Berosus) as IOANes; and
 Jonah, 'Jonas,' as IONAS; both being i-ON-es $=$ 'the sun' -were identified long ago with Dagon, DAG-ON ; i. e. the "sun in pisces," incarnated in this Assyrian fishgod. -The same mythe lies in Aurgatis, or Derceto, and especially in those Christian forgeries called the " 8ibylline verses," beneath the acrostical ixpós.

I should not hesitate, but for the above proternaturalities, in reading the Tarsus of Cilicia as the destination of the ship whereupon Jonah took his passage, and "paid the fare," on an obedient voyage from Joppa to Nineveh, (as a convenient route anciently, before steam-navigation, as now "comteris paribus"), for compliance with the "tetragrammaton's" behests: but he spitefally "rose up to flee unto Tarshish, from the presence of ADONAI"; and, in consequence, while Jonah was righteously punished for his obduracy, it seems that his intention was to escape through a western, in lieu of proceeding in an easterly, direction; and therefore Tartessus of Hispanis, or elsewhere so long as Jonah could realize a contrary, would appear to have been the country for which the vessel cleared, and wherein dwelt her consignees. - G. R. G.]
B. - Taricatus, Tapenocos, probably \& Phenician emporiam, whother among the Tartesit in the vicinity of the present Cadiz, or at some other point within the Mediterranean, lay unquestionably in Spain. Hither Solomon'and Hiram diapatched their commercial navies ( 1 Kinga $1.22 ; 2$ Chron ix. 21); and thence, about the time of the Bahylonish captivity (Ezekiel xxvii. 12; Jeremiah x. 9), silver, tion, iron, and Vead, were imported, through Tyre, into the Levant. The presence of silver, fin, and lead, upon Egyptian mumbries of every nge back to the XVLILh dynaty, eatablishes, beyond dispute, epochas far earlier than those of any Hebrew writers, Moesa inclusive, for relations of trade between the Nile and Fhatever wesken regions, probably Spain, whence tiose articles were introduced: so, no douhts on relative nntiquity need arise apon Ibering Tartasus. It corresponds perfeotiy to Taruhinh in later parts of Hebrew anasls. But there is a third element in the diecuasion, antmown to Anglo-Samon divinity, which it is due to our conlemporary Michel-Angelo Ianci, Profeseor of Sacred Philology at the Vatican, not to overlook.
C. - Tarsis does not proceed from Tur-sur ; but from the old Eemitic root ranas, preeerved in Arahic, meaning 'to wet,' to lave.' With the primetal feminine article I pretixed to it, Tarshish means 'land laved by the sea,' that is, the sea-shore; and, in consequence, "vessels of Tarshioh" often signifies coastert, irrespectively of any geogrtr phical attribution. For example - we should read, "thon breskest the coartingvestels" (not ships of a place called Tarahinh, " with an eart-wisd." ( Pa . ylviii 7.) Again, "The kings of maritime stales (Tarahiah) and of iniand regions ( Nin ) shall prosent offerings." (Pr. lxxii. 10.) And finslly, not to digress here on that most prolife theme, the mistranslations consecrated in King James's Fersion, compare "Shebe and Dedan, and the merchanis of Tarshiah, with all the young lions (1) thereof"- (Ezek. xxyiii. 13) - with Lanoi's lucid Italian rendering: "The inhabitenta of the atrong places of tera-firma, Sabe and Dedan, and the maritime merchandisers and their colonigis mill say to thee" - (Gii abiatori de' forti lwoghi di terra ferma, Saba e Dedate it mereatanti mariltimi e iloro coloni diranno a to.)

This derivation of Tarshish, from T-rarac, bears apon the geographien inquiry so far as conceras the marine position of a territory to which the name is applied.

The following parsages are note-worthy in our discussion: -
1st. - (2 Chron. 1x. 86.) Jehoshephat "joined himeelf with him (Ahariah) to make shipe to go to Tarshiah; and they mede the ahips et Etaion-gaber." Now, this aranal lay near Elath, on the Elenitic arm of the Red Sea, not far from Akaba; and therefore, in those days, the Jews were pot likely to have intended a circomnavigation of Africe to resch Tartessur in Spain! Nor is it probsble that, after building galleje a enormous cost on the Red Ses, the Hebrows contempiated transportation beekwards over the Ifthmas to lamech them again on the Mediterrenean.

2d - ( 1 Kings xxii. 48.) But we leara that "Jehoahaphet made shipt of Tarshinh to go to Ophir for gold : bat they went not; for the ships were broken at Etrion-gaber." What other construotion bat "consting voyagea" will ruit Tarehinh, in the former pass aget What other than "coasting veseols' could go by sea from Alahe to Ophir (on the Persian Gulf, as we shall seef, it the latter ?

Here, then, withoat queation, Tarahish refirs to "caesters," or " maritime merchnndizers," builing down the Red Bes towarde India, and not to Spain.

8d. - (2 Chron. ix. 21.) "For the king's (Bolomon) shipe went to Tarahich with the gervants of Huram ; every three years onoe came (beck) the shjps of Tarahish, hringing gold and eilver, SAiN-HaBIM (teeth, of elephanta 9), KUPhIM (apes), and TaKIIM (peacocks?)," The paraliel passage 1 Kinga $x$ 22, enumerates the same articles, bat has "feet of Tarshish." So, "cossting vessele," and not a locality, seems intended hy both writors. This is confrmed by Qesenius, who says that "a ahip of Taration" meent "eny large merchant vessel in general."

All the articics named, with one exception, might have been imported equally well from the Afriean const of the Gates of Herculea, opposite to the Spanigh Tartenes, as
from Bonthern Arabis, Ophir, so.; beonuse elphante aboonded in Berbary, even in Boman times; while "Aper-hill," at Gibraltar, even now corresponds to the opposite Atlantic rango, where apes are as common as Afriesn babooss in Arabia; whence the leiter aro brought now-a-diys to Cairo.

But the exeeption excludes Spain, and all Northera Africa. The aingular TiK, pointed Thut, Hhe its homonyme Taobk, and Taods, in Arabic, Turkish, \&e., is considered to mean 'peacock.' If so- and there is no ectual impossibility that auch a " rars avia" should have bean brought via Arabis by the coasting trade - India ia the country of peacoeks; and therefore these birds were not procurable at Tartessus, in Epain, 1000 ytars $\boldsymbol{q}, \mathrm{c}$.

Peacock are not impossible; bat a new reading is oubmittef, equally destructive of Spanish Thatessii in these terts.

It is certain that cocks and hass (the common fowl), ss well as geses, are never mentioned in the canonical writings of the Hebrews. Nor fowte in authentio works of Homer; dor by Herodotus. The Phareonio Eyyptiant knew not the oommon fowl; using gease, ducks, and these birds' eggs, instead. But one instanoe of posslbly a "cock's head," and thiat e stuffed specimen, cocure on Nllotic monumente. It is in the "Grand Provession" of tribates ta Thotmes III., as Pickering first indicated. Etrascan These, being of later manufecture, are oo exception to the rale that the common forl had not rasched Europe, or Anis west and north of the Euphrates, or Alrica, before the conquests of the $A$ chemminas, B. o. 640 , downards. It is also positive, that the centres of creation for this hird are Indo-Chinese and Austriasian; and that, like peacocks, they hed to be imported inta Arobia from India Now, in Arabio, s ack is called 'Dejk,' DiK. Stripped of the modern Masors, the Hebrew Ford is TiK, or DiK. May not the common fowl, in llen of peacock, be alluded to in the inbore paegages? It is as probsble ss pheasant, proposed hy others; and about the same ages ( $\mathbf{B} . \mathrm{c} .1110$ ) white pheasant, probsbly from Caffaria, were received at the coart of Thing-trang, in Chine; ecocording to Peuthier.

Bochart, following Eunehius's aageris \% of "Ienprs - the Iberiang of Spain - and the generality of Bnglinh commentatars, fix upon Tartasus as ths equivalent for Tarshinh of Xth Gencris. Continental orientalists of oar day lean wowerds the Cilicien Tharrif, Tareu; apon the earlier anthority of Josephus, and of Jonsthan, the Chaldee paraphrast And, whout dogmatixing in the least npon either view, the order in which Ionio affilistions succeed each other - Eolia, Tarshish, Kittim the Cyprians, and Rhodanim the Phodiena - coupled with the geographical proximity of Rhodes and Cyprus to Tarooss, on the Caramanian coast, seeme confirmotory of those opinions which select Tarsus, in Cilicis, the locality indicated by the writer of Xth Geresis for Tabagisf. There is mo digicalty with regard to the antiquity of Cilician Taraous; becanse Mr. Birch read, long ago, "This is the vile slave from Tarsus of the see," inscribed in hieroglyphics, during the thirteenth centary B. C., over o captive of Ramies III. 50

## 18.

Language uncertain. Not, 'they that bruise,' or gold; nor, 'hidden," \&e.
Three Mediterranean countries have been aupposed by commentatars to be figared hy the various etymons of this word: Italy, Macedonia, and Cyprat; besides many "ialands." The first, resting solely upon the fanciful analogies of Kerua, in Latiam, and Karos, a river near Cume, although supported by the erudition of Bochart, may now he dismissed without ceremong.

Kittim, as Maretis, after Alezander's conquests had made Macedonia renowned, is the acceptation in which it appears in two lateat books of the חebrews - Daniel (xi. 80) and 1 Maccabeen (i. 1); equally canonical in archealogy.

The books belonging mainly to the period between Alexander (B. c. 330) aod tho Babylonish captivity - esy, from Hilkieh's tigh-priesthood, about s. c. 680, down-

Werls-give to Kittim as wder extension than can well bo dednced from Xth Genesis; for Jeramish (ii. 10) and Erekiel (xivii. 6) speatr of the states or "inles of Kiestin ; " the latter with raference to workn in ivery thence imported. Greeoe min celobrated for chryselephantine manufactores, certainly in the 80th Olympied, 660 b. c., and perhaps before.

In the Hebrey toxt of the doubtfal parts of Istiah (lx. 19), Tharshiek (Taraus), Phul (probsbly Psm-phylia), Lasd (Lydla), Thubal (Pephlggonia), Janan (Ionis), and Kittiet, are grouped together; hence their proximity is infersble.

Josephas sdopta the Oriental form of personlfestion when he rolates that "Katrisar: ponsessed the island of Kethima, which now is called Cyptus; and from this, by the Hebrews, all Lelanda and maritime plaoes are termed Kethim."

Heoce, modern researchee onite apon the islend of Cypries as the entro-point of probabilitee - Citime, xurioy rohts, of Ptolemy, a city in Cypras, now Kiti; and the Phonnoiso Citiaci, applled by Cieero; justifying the adoption. Confirmed, moreover, by Boeath's Greek insariptions, whorein 'טת Earitys; a Kitiar, or Cypriote.

But the true porilion of Kititse, as Cyprus, is now fixed by "coins of the anonymons kinga of Cittiom; " do less than by a ouneatic inseription of the time of the Assyrian king Sargon (recently found at Larnies, and conveyed to Berlin), which carries the name beck to the eighth centory 日. C. Egyptian monuments, elucidated by Birch, enable us to behold it again in bieroglyphice of the thirteenth centery a. c., where the "Chiof of the Khita, as a living captive," surmonnts one of the prisoners of Hamsea III. Nor is this oar earliest record; beceute the KeFe, portrayed in the "Grand Procession" of Thotmet III. [rupra, p. 169, Fig. 82], are eaid to come "from the iales in the bes," i e. Cypras ; and, again, "Khefa (Cyprus), Khita (Kettimi)," standa registered in the scniptures of Amunoph III, at Soleb. Bo the people, and their islend, are as oid as the XVIIIth dywaty, or the sixteenth century a. $c$.

The inhahitants of Cyprus in particalar, and of the adjacent coaste and islands in general, are undoubtedly the KiThIM (Gypriots) of the later projector of Xth Generiea conclusion ratifed by their propinquity to the nation immedistoly succeeding. ${ }^{3} 0$

## 14. רדגים - DDNIM - 'Dodanim'; plural of Dodan.

Between Dadanim of Xth Geneais, and Rodanim of 1 Chron. i. 7, a literal discordanee, produced hy the error of some unknome transcriber, leaves the decision for posterity (as Cardizal Wisemen deoleres in respeot to 1 Trim. iii. 16) to " reat on what judgment it can form amid ao many conflicting statements!" Who, from the text alone, can tell -hether we muat read Rodanim in Xth Genesis, or Dodanim in 1 Chroniclea? In consequence, conjecture bas had full seope; and Bochart's ingenions assimilation of the river Rhodanuf, Rhone, bas been seized apon bya atendard Anglienn divine (Biehop Patrick, to wit), who beholds in France the country of the Rodanis! "Our old chroniclers," says Champolion-Figenc, "equally rohast etymologists as sble critics, do they not found the realm of A子ance by Francus, one of the sons of Heator, saved expresaly from the ssok of Troy I $^{\prime \prime}$ The Hungarisns asased Attila to descend from Nimrod in a atrajght line; the Danef, from the Danai issuing from Dodona, crossed the Danubr, to which they gave their name, and finally settled in the country they named Danemark!

Dodanim possesses advocates; and of course Dodona, in Epirus, site of Gracis's most ancient oracle, at once buggesta that the Dodonai must be the people interded. Nor, except its remotesess from the neighhorbood of other proper usmes whose geography is tolerahly positive, ean a negation be absolutely demonstrated

However, the Sbmaritan Pentateuch, reading Rhodiane whert the LXX have Podu, affords a preponderating voto in favor of the $\mathbf{R}$. And, other conditions being equal, this fixes attention on the isle of Rhodes; by excluding the possibilities of D. Its early Grecian ocenpancy; its locstion between Cyprus and EElia; and their common sfliation from Ionis; enpporit the view that Rodes, the roseate ieland of the Rhodiant Was the habitat of the Genesiacal Rodarix. 8 (

## Hamide, or Swarthy Races.

- BNI-KhM — "Affiliations of Ham." - Gen. x. 6.


## 15. כושו-KU8-'Cosi.'

By the LXX, and in the Vuignie, this mord, whenever translated, is made to figare under the Greek form of Actcozia, Ethiopia. Through Cruden's Concordance, it appears that Cush is transcribed in King James's Version as if in the primary Hebrew Text the name had occurred only five times: whereas, if we reatore to its relative passagea in the Text the original KDS, in every instance where in our version we find its sopposed equivalents, 'Ethiopia,' 'Elhiopian,' 'Ethiopiana,' it will be peretived that Cuh it repeated, $(5+34=)$ thirty-nine times in the canonieal Hebrew Sariptures.

It may occur to a aimple believer in plemary inspiration to inquira, why, and upon what principle of logic or philology, the translators of our authorized version- ${ }^{4} \mathrm{By}$ Her Majesty's epecial command - sppointed to be read in Chorches" - Look upon themseives the suppression of the Hebrew word KUSh thirty-four times, and its preserration only fipa? How happens it, that strict uniformity was not adopted; and that they did not either sabstitute Ethiopia all the way through, or preserve the original Kush in every instance; according to the consiatent method of Caben, in his much more securate transintion: To answer such queries is beyond human power, beceuse the aforesaid translators did not know themselves: but some expladation may be found in the fact that, little versed in Hebrew literature, the Aftyfour revisers, in 1603, followed the versions, and not the Text; as onr Part III. thoroughly esteblighes.

Investigation must first be directed towards the Hebrew triliteral KUS. It translation by the Greek word Ethiopia is a secondery inquiry. D , KUS, are ita radicale; and mast have been its components, at whatover time, and in whatever alphabet, anterior to the Hebrew squarc-letter (not invented until the third century after c.), the Xth chapter of Genesis was first written. The diacritical points, added by Lhe Masoretes affer the sirth centary of our era, make itn gonad KUSA; whilst, as regards its original Hebrew phonetism, the terminsl Sh is (Chaldaically) likely, and we edopt it in the form KDSh.

What did KUSA signify, in the mind of the compiler of Xth Genesis? There is not one per mil of our contemporary divinity-atudents who will not glibly reply - "Ethipia, to be sure - Africa, sbove Egypt"!
[Five years have pessed since the authors of the present volume denounced such answer to be simply ridicolous (J. C. N. : Biblical and Phytical Hintory of Han, 1849, pp. 138-146;-G. R. G.: Otia EXyPtiaca, 1849, pp. 16, 188-4). Detween replies so diemetrically opposed there can be no reconciliation. One of the two must be sbeolutely faise. Amoag the many, however, who have felt themselves called upon to contraveno our assertions, not having hitherto met with one person really acquainted with the Hebrew alphabet, we may be excused by Hebraists from recogaizing as "Biblical authorities" those teachera who (even the articulations of $N, J, j$, being to them onhnown) are yet ignorant of the A, B, C, of Scriptural innguage, meacings, and history.

It was the authors' intention, when projecting "Types of Mankind," to publigh an investigation of Ethiopian questions, anfficiently copious and radical as to leave few deductions ungrounded; and their MSS. were preparod accordingly: but, bo much extrs apace has been occopied by Part I., that "copy," to the extent of some 200 of these pages, must be suppressed for the present The reader will, in consequence, be lenient enough to accept dry references, in lieu of logical argument If "truth" be the ohjeat of bis search, we feel confident thet our bihliographical indicen will at ady rate place such reader oo the eagiest route of verification. - G. R. G.]

Bochart's words show that Fe Fere not the Arat, by more than 1000 gears, to claim
"Arebis" for KOEh, instead of "Ethiopia" "Chas alii Ethiopism, elii Arabiam explicant. Priorem interpretationem prater Lebraos fere quotquot sint, etiam Greci sequuntur, et vulgntus interpres, et Phijo, et Josephus, et Eusebias, et Hieronymus, et Eugtathius in Hexmmeron, et author Chronici Aloxandrini, et choras patrum vinersue.
 id est Ethiopism. Posteriorem è veteribus, quod scinm, solus Jonathan, in cojos paraphrasi Gen. x. 6, pro Hebrmo Chus est rrjvi drabia. ... Ex iis qum hactenus ì nobia disputata sunt, credo constare luce clarius Chusemos is is locis bahiterse que ouprs indieauimas, nimirom stpra Egyptum ed Rubri maris ainom jotimum, in parte Arabia Petraze et Felicis."

Circumscribed within s fow pagee, our part limits itself to the prodaction of auch atoms of new data as have been stinined gince Boohart's day : beginning with the four rivers of Eden.
"The name of the oecond river, Gibon; that which encompasseth the tand of KUSh" (Gen. ii. 18) - part of the Jehovistic, and consequently later cocoment-may be dismissed from the discusaion; because, relating to ante-diluvian epochas, its geography is unknow. It there over was en universal Deluge, all lend-marks were necesaarily obliterated. If thera was not, as bome geologitta now maintain, the Bercshith (from Gew. i. 1 to Gen. vi. 9, rabbinical division) ceases to contrim history ; and, when not accepted in the allegorical sense maintained hy learned Christisn fathern, muat be abandoned, by science, to thsumaturgical ingennity; while the KUSh of Gam. ii. remains to be sought for "pear the isle Utopin of Thomas Moras ULopis! expressive name! - invented by the astirical Rabelais (Pantagruel), and aftermards epplied by the great Chancellor of England (Sir Thomea Mort) to the beazuful land (Oceasa) of which he dreamed-this Greek noun seems mede expresely to indicate the sole degree of latitude ander which the poetic marvela of the grand Atanantic inland (and of the four rivers in Eden) coald bave over been produced. It bas been believed," conlinues Martio, the sbleat critio upon Piato, "that it [the river Gitan] might he recogrized in the New Worid. No: it belongt to another world, which erists not within the domain of epace, but in that of fancy."

In the geographical nomenclnture of Xth Gecesis, KUSh is the "son of Kham;" a neme epplied to Eyypt and her colonial affliations: of whioh some are African, and others, such es Cancanites, indisputably Asiatic. To whith continent did the Hebrems refer the name KUSh ;

In 1657, Welton, the upright and most proficient compiler of Biblia Polygbotta, inveighed ageingt the notion that KUSA could be the African " Ethiopia;" citing the best scholars of his day to the same effect. So, again, Beroslüus, Bochart, and Patrick, following the Targum of Jonathen, the Chaldee paraphrast - third to eighth centory after Christ - render KUS $A$ by Arabia, on the suhjoined, among other grounds:-

1st. Moses' wife is terised a KUShean (Num. xii. 13). Taipors was a daughter of Jethro, the Cohen (priest) of Midiun (Erod. ii. 16, 21; iii. 1); and Midianites boing Arabians, here KUSh is Arshia. No other wife is given to Moses in the Pentateach; nor can any supernaturalist so torture the plain worda of iss text as to prove, to a man of common aense, that Moses ever visited Ethiopia above Egypt. The Abbe Glaire, Doyen de le Sorboone, Those two volumes - models of erndition and style that protestsat divines would do well to imitato-lie before us, pever resorts to such pitiful subterfoges.

2d. "I will make the land of Mitaraim a waste of wastes, from the tower of Syena even unto the frontier of KUSh" (Ezek. mix. 10). Syene being Assoudn, at the first cararact, on the Eorder-line of (Ethiopis) Nubia and Egypt, the writer cannot mean "from Ethiopia to Ethiopia," but from Syene to KUSh, beyond the Isthmus of Sues, on the north-easters frontier of Lower Egyph and consequently here indicatea Arocia.

Modern reasarchen furnieb more critical light In the Arst place, Dr. Wells sustains, and, to a cortain extent, demonstrates, that the word KUSh refers exclusively to the Asistio "Ethiopia," and never to Arrican localities; summing op his reasonings with, "the ration of Cash did firet settle in Arabia; and the word is, generally, to be so underatood in Scripture." In the second, believere in the unity of all mankind's descent from "Noah and bis three sons," must concede that Nimrod, and mnny other affliationg of KDSh, settied in Absyrian vicinities; even if offebools did afterwards cross through Arabia into Africe, and there, owing to "effeots of climate," originate Nigritian reces; beginning with the comparatively higb-osate Berber, and descending • dowa to the lowest grade of Bozieman-siwayg along \& slidiag scale of deterioration, from the valley of the Nile to the Cape of Good Hope-where, onfortunately, 200 years of oconpancy have not yet tranamated Datob Boers finto animale different from those left behind them in Holland and Fianders.
The taxt moat triomphantly quoted to prove the Africso hypothens is Jerem. xiii. 23.-"Can the Ethiopian ebango his skin, or the leopard his epots?" A giance at the Hebrew shows that here, as in other instances, the Afty-four rerisers of King James's version blindly copied the LXX, or the Fulgate; because "Can the KOShean change his skin" leares the question yague until the reas applieation of KOSh be determined. The same proelivity leada many divines to dite another texs, from the so-called "Song of Solomon," in behalf of their negrophile theories. -." I (am) black, bat comely. . . . Look nat upon me, beosore I (em) black, beeanse the sun hath looked upon me: my mother's ohidren were angry with me; they made me keeper of the rineyards; (bat) mine own vinejard have I not kept." (Cont. 1. $\overline{6}$, B.) The absence of notes of interrogation in Hebrev palmagrapby, coupled with the pbilological inanity of modern translatore of this ancient erotio ballad, perpetastes a delasion, removeable by Landi's rendering: - "I (am) browned, bat oomely. . . Look not [disparagiogly] apon me that I (am) browned ["fosce" = tumny, dark], becanse the sun has tanned me: the sons of my mother [i. e. my step-brothers] becoming free to dispose of me [nccording to Oriental usage], posted me (as) enstodian of vines; my own vine, have I not guarded [tuken care of ] it?" Beeides, as it bas been remarked on the above interrogatory of Jeremiah, -"If Caph means a Negro, then we have revetation to prove that climate will not change a Negro into a whitemen; if it means an Arah (dark) Canossian, then it will not ohenge e white man into a Negro!'一 Indeed, the akra-high-church orthodoxy of a living Raglish divine, and profound, whilst fantustic, Orientalist, unhesitutingly endorse日 this critioll wiew.-"Among the great land-marks of national descent, none, it may safely be affirmed, are surer, or more permanert, than thase physical resieties of form, countenance, and color, which distioguish from each other the various races of mankind. . . . In Arabia, one of the earliest seats of postdilurisn colonisation; a country rarely violated, and never oocopied, by a foreign conquaror; and peopled, in all ages, by the same primitive tribea, . . . pecaliarity of form and feature may be jastly reecived, in any apecific or authentic example, as evidenoe of identity of origin, litule, if at all, short of demonstration. This principle we are enabled, by Bcripture, to apply as an index to the Arab tribes descended from Cush, and especielly to the pasterity of his firat-born, sebn."
If we had penned the above paragraph ourselves, we could not have embodied mure forcibly Morton's decisive opinions on those "primordial otganic forms," which are perpetasted to this day, bs the Ret. Charlea Forster, B. D., justiy remarks, among "the varions races of mankind."
Atter the citation of "Can the Curkite change his skin ?" the geographer of Arabia proseeds:-"This indedible characteristlo of race would seem to identify with the families of Casb the inhabitants of the southern cosst" of Ambis. "Now, since the Cuahites generally were distinguished by the darkness of their akin, and the Sebsim (Iac. xlv. 14), pertioularly, were noted for the procerity of their stature, if we find, In Arabia or its vioinity, a ree aniting both distinctive marke, the probshility cer-
rainily in pot a low one, that, in that race, we recover a portion of the family of Beba" In testimony whereof, the reverend suthor quotes Barokhardt's description of the Dowaser tribe of Arabs - "very tall men, and almast black" - as well as pasagea from Chesrey, Niebuhr and Wellsted, corroborating the dark complexion observed by these authoricative travellers among Bedawees of the Persian Galf; to whom we coald add multitudes, were they needed.

Having indicated to the reader sufficient sources to sobstantiate the existence at this dey, in Sonthern Arabia, of tribes dark enowgh to juatify Jeremiab's simile (riii. 28), Fo might proceed at once to the identification of KUBh in its geographical affliations. Inasmuch, however, as one of the objects of the present work is to bring the arobeological and othnographical facts contained in Hebrem literature from out of a deplorable mysticiam into the domain of saience, there are other scriptoral pananges that eltim priority of analysia
1st. Isaiah (xi. 11) 一"from Absyris, and from Egypt, and from Pathros, and from KUSh, and from Elam, and from 8hinar, and from Hamath, and from the ialandia of the sea." Circumscribed within the geographical limits to be eatablished for the Hebrew writers, Southern Arabis is here the equivalent of KUSh, becauge, otherwiac, an immense peninsola, very familiar to them, would be omitted.

2d. Tsaiah (xviii 1, 2) - the prophet in Palestine bere apostrophises Egyph Fe hmve given Rosellini's rendering in Part III., and need merely now remark that "The rivera of KUSh" have no relation to the Nile, nor to "Ethiopis" sbove Egypt, but aro the correns Agypti, the "streamleta of Mirraim"-tbe Besor, Cory", now "Whidee esArish; " the winter-broak, or Styl, which divides Paleatine from Egypt at Rhiuccorurn Indeed, this is, and has ever been, the beundary-line; the extremest Weat; beyond which, towerds Afries, the word KDSh never pasees, in the geography of the earlier Hebrews: and, from that occidental line, it stretches backwarda to the Eaphrates and its lower lerrilories south-enst of Syria The tarm "earlier" Hebrews is used advisedly, to distinguish tbose parts of their literature that belong to timee preceding the Captivity, from others composed during and wher, when KUSh may have poeseased a less restricted sense.

The most formidable ohjection to the Asiatio reatriction of KDSh would seem to originate from 2 Chronicies (xiv. 9, 12; xvi. 8), where the rout of "Zerah the KUSiene"" with a miltion of combatants, by Ass, is detcribed - events attributed to the yenr 941 日. c. But thin bas been sbly overthrown by Wells, sustaiaed by the later work of Forater; who sbows that Geror, whither Zerah the KUSAean fled, "lay on the border of the Amelekites and Ishmebites, between the kingdom of Judah and the wildernesses of Sbur and Paran;" and, consequently, the scene lies in Arabia, and Zorah was some marsuding potentato, probably Sheyikh of a powerful Arab horde, Thoge forsy was repelled into the " land of KOSh," Southern Arebis, Fhence he came. Sarsou8, moreover, (the claseical transcription of Zerak-us, ) was a proper mame among Fiushear dynastiea descended from Nirsood, and also in Arabian traditiona. To the Egyptologist, in consequence, the now-preposterous identification of Zerah the KU8keas with OSORKON (as oSaRKon, or SRK), becond hing of the XXIId dynasty of Bubastites, hes long ceased to be of interest, because this text has no relation to Egyptian, any more to "Ethiopian," events.

The narrow circle of geography oomprehended by ald ancient nations situato around the Mediverranean as late as the Perrian period, in the sixth century B. c., 0 which the Hebrews form no exception, forbids any such deduction as Jewish acquaintance with Nigritia. That analogy and comperison of the literal texts do not requite KUSA to be sought ont of Sonth-westera Aaia in general, and Arabia in particalar, in any Seriptursl passages, could bo sbown teit by text, did spece aliow. The "onve probadi" of the contrary may now be left to "le théologien" - for, as Latronne philosophicaliy obserted, "ici le role de l'hegiographe cammence; celvi de l'arohélogue finit." "Le théologien," neatly deolares Cahen, "en traduisant, ne perd jumais de rue son égliso,
son temple, an syaagogue; borné par cet borizon, il alloage, raccourci, taille, entretaille, contretaille, les pensées de son anteur, jusqu' ì ce qu'elles aient la dimension voulue pour entrer dans l'enceinte escrée. Tel est $k$ faire du theologien; nous me le blamons pas; shais ce n'est pas le nôtre"

The reader, who may be pleased to verify the exactitude of the following results, will be enabled to do so through the references appended to this condensation of a complete chapter of our work, which lack of room compels as to cortaid,

In hieroglyphics coeval with the XIIth dynasty at least, or 2200 yeara b. c., an African nstion, situate immedintely sonth of Egypt , always bore the following deeig-

Pia. 366.509
 pation, in one of many dialectic forms - as "KShI, barbarian country"; or spelt KASh, KeSh, $\mathbf{X i B h}$, or KSh; with or without the terminal I.

The human portraits, wherever acoompanying this name on the monnmente, are invariebly Africams, but more gederally of the dark mahogeny-colored Nubian than of the jet-black Negro type.
We contend that this proper neme, which, indigenons to African Nubia, weas ascribed by the anclent Eggptiang to Nubians slone, has no relation (except throagh fanciful reaemblances, produced in modern times, through corrupt pocalizations of Rsbbia on the one band, end of Copts on the other,) to the Hehrew word KUS, conventionally pronounced Kuhh, which, to the Jewt, meant "Southern Arabia," and no conntry or nation out of Asia.

To render this clear, one must commence with a query - When, and how, was the Old Testament trenslated into Coptic 9 Quatremère, sustained by the old Coptologiste, claima, "que la Bible avait êtê tradaite sur le texte hebrea en langue Égyptienne." De Wette and the Hehrew exegetists aver, that "the origin of these versions (Memphitie and Sahidic) ls probably to be referred to the end of the third and the beginning of the forrth centary; for at that time Chriatianity seems firat whave been extended to the Egyptian provinces [it bad not even than rasched the temple of Oriris at Philm]. Both follow the Alexandrian veraion, but it is doubtful which of the two is the oldeat"

The question is somewhat important, inasmach as opon it hinges whether the Copts followed the LXX's Greek mistranglation of Aisioria, or the original Hebrem word KUS. There can be little doubt that sach tranglators imitated the Alexandrian Veraion, and not the Text; and substituted Ethaush and Koush for "Athiopia." Champolion givee P-KA-N-NGHOOSH, NEOOOSH, and ETHADSH, from various Coptic topographical MSS., as syongmes for the Greek Aswarta, the Arahic el-Jabesh (Abybsinia), and the valgar Ethiopia; while Lenorment states - "the Coptio books employ the same expression ( Kourch) that is frequently met with in its altered form, Ethouch." Peyron and Parthey establish the seme fact; bat Lanci's deeper philology traces Ethaosh into two Semitic redicals, heet $=$ 'form,' and abes $=$ 'to-be-black."

Champollion's Gromanaire, Dietionnaire, and Notios Descriptions, prove that the great master, whose discoveries were made through Coptic, always transcribes the ancient hieroglypbical KSh hy the modern Coptio form of Kousch, or Khoosh. Hence, it has been univerasily taken for grnated that Champollion's Coptio trunscript of the old hieroglyphical African name of KiSh is identical with the Hebrew Asiatic KUS - that both are comprebended ander the Greek maltranalation of "Ethiopia" by the LXX -and thus Arabs and Nublans, the Arshian Peninana and the Upper Nile, Hamitic and Semitic distinct roots, bave hecome jambled up into "confasion worse confounded!"

Now, it to happens that the old bieroglyphical KSh is never written with a medial ' $u$,' which is a radical "mater lectionis" in the Hebrew EU - a atrong point of digaimilarity to begin with. On the former word, Birch had critically remarked - "The term Kash is a flactuating and oncertain territorial appellation: it is supposed to be the Kugh of Scripture, the Thosh or Ethosh of the Copts, which, after all, is merely
"the frontier.'" We have oiready [rupra, pp. '250-9] furnikhed abundent extructs from Mr. Birch's more recent definitions of KBh'a localitiem above Egypt

But, in addition to the perplexing difficulues of archaic Egyptian end Hebrew names, and the anachronisms of modern philologers, there is a third element of medley, on which it bebooves us to sey o few words: vix., Ethiopia, and Ethiopiann. Indeed, it in the prevalence of misconceplions upon the latter which lies at the botiom of mistakea concerning the former.

Already in 4. D. J657, the scholarship of Wojton protested against "Ethiopisn" delusiong, with a citation from Werer - " Graci $\boldsymbol{x}$ Lhiopiam dedueant ab atio atmo, aro, et 84 , brds, facies, arpectus, quia a solis vicinitate its aruntur et torreator, ut atro sint colore." Hence it is immediately perceived that Ethiopian, meaning simply a 'san-burned-face," possessed at one time a geperic application to the color of the haman skic, and not an attribution to one spacific geographical locality. During Homeric ages, by AlBiod, the fair-skinped Hellones merely meant a foreigner darker than themselves; and, by 4 iecidxa (the existeace even of true Negro races being then utterly unknown to the Greeks) early Grecian geographers underatood (not our modern "Ethiopis" nbove Eggpt) the countries of all noarthy AsisLic and Barbaresque pations - Persiank, Ascyrians, Byrians, Arabe, Phcenicians, Canaanites, Jews, Bgyptisne, Carthaginians, and Libyacs - espscially those sitasto along the const of the Mediterranean from the Orontes to Jopps.

This fact has been established beyond all oontroversy by the vest erudition of a Letronne, a Raoul-Rochette, and a Lenormant.sol Its etymological truth can be verified in any Greek lexicon; while it is adopted, although not with sufficient mrobeological rigor, in the popular cyciopedias of Anthon and Kitto.

Want of space alone oompeis us to suppress many pages of extracks from the three first-named safans; through which it would become demonstrated that aithre, in all writers down to the fifth century D . c., meant nothing more than "visages brales"; that is, "sop-burni-facer." Dy Fay of example, take Memnon, who by Hexiod is termed
 odorus, Asschylus, and Herodotus, affirm that he was an Asiatic demigod, probably from Shusan, or Chusitan, on the confines of Pergia. Now, Hesiod neror meant that modera interpreters should underatand that Hemnon was "Ling of the Ethiopiant"of our Ethiopia above Egypt! The peet mroto that Nemnon was "ling of the berretfaces;" that is, bis followers were a dark-skinned people, such as the Curkite-Arabiang are on Persian confioes to this day. It is the asme in Homer's "Eestern and Feotarn Athiopiams" - again the same in Herodotus's Ethiopians, enrolled in the Persian army of Xerxes ; some of whom were Abiatics, and others Africans - and, not to enumerale instances by the dozen, it is the same in Alimn's Indians (Hindoos), whom he terma Ethiopians also. In all these cases, the writers meant "sun-burred-faces" of the socalled "Caucasinn" type: and it is hut the inanity of modern litteratewrs whicb sacribs any of the above CEthiopians to countries sonth of Egypt.

However, the time came, (bifter the Pergian coaquest, B. c. 625 , and hardly befare Ptolemaic days,) that Greek geographers, baving discoverad that thare was a ree "nigro nigrior" whose habitat lay south of Egypt, began to restrict Fehiopia and Fithopians ta the mahogany-colored Nubians and to the jet-bleat Negroes; and it is in this, the later specific, not in the older generic, sense, that scientife geographers underatand a name rhich, without auch reservation, is as vague as Indichs (East add Weat Indies, and Amerioan 'aborigines!); as Scythian (from the Himanays to the Baltic!) : or, as that wretohed term "Cancenian,"

Now, it was during the prevalence of auch geographical miscanceptiong-when Africa meant little more than Carthagininn and Cyronaio territories along the feea of Berbary; when Asir signified Asia Minor $\rightarrow$ in the interval betweba Eratosthones the first geiedtific geographer, and Strabo the aecond --whilst Hindostan was lermed Ethiopia, or vice-tersa-pending the notions that the Nile and tha Indus Were one and the same
stream; and that a circumambient acean surrounded what little of a fat and stationary earth was koown to Alexandrian science:-during such, and hundreds of similar cosmographionl views since proved to be false, it Fes, we repest, that the Jewe of Alexandria, (haying forgotien not oaly their parental Hebrem, but even the Chaldee dialect suhsequently ecquired through the Captivity,) caused the books of the Old Testament to be tramalated into Greek; in the form preserved to us under the mystic No. LXX, bod by ua consecrated as the Sepfrogint: translations flootuating in date between в. c. 260 , and д. C. 180.

Books of different origing, translated at different epoehne, and by different persons, necessarily teem with imperfectiona; nor can uniformity be expected from literary labors under those eircumstobees, and in zuoh oncritical times. Geographioal criticism was certainiy not a paramoint object with any of these "uninspired" translators. They never foressw arohmological discnesions that ooonr now, 2000 yeara after their dey, in a langage not formed for 1600 years later, by a distindt people, (whose infantine tradiliona nitain not their Alexandrine lifetmes, and on a Continent ( 6000 miles from Alexandris) whose existence wes still andreamed of, oven sixteen centaries after the origival Sqpotagint MSS. were completed. In consequence, some of the Fellenizing Jews, or Judaizing Hellenes, when they met with the Hebrew word KUSh, simply tranacribed it into Greek characters as Eobs, KCO, or Eac: others translated KUBh by Atotoria-a word at that time equaily spplitable, etymologicaliy in the nanse of 'sum-burned facer,' no less than geographically, to India, Persia, Arabia, and the $N u$ bias, indifferently to ith Asiatio or African association. And this explains why, after 2000 gears, the imeginary annctity of Hebrew and Greek words, accidentally preferved in recent MSS., or through Latin and other re-tranalations, and despite innumerable recensions, ensbies us yet to admire in King Jamea's veraion the English transcript of Cush only five times, snd its Alezandrisn substitote, Ethiopia, some thirty-four [ubi supra]; at the same time that, in the far elder and original Mebrew Text (copies of which, only about 600 yeara old, have come down to us), Providence permits our counting the triliteral KUS $h$ in about forty different places.

Under these circumstances (notoriously acceseible to anybody who cad read English), to quote the Septuagint anthorilntively on doablfol relations of "Ethiopia," as if it bod applied to Africs erclugively at the time when this Greek literary work was in progress, may be excesdingly praseworthy on the part of profeasional hagiographers, but, arehaologically, is "vor, et prateres nihil," leaving the radical ispue untouched.

Bat there is yet one more rack of confasion to he indicated, apon wbich the adopters of Wilford's Puranic delasions, Faber's fantagtio reconciliations, and Delafield's American extrapeganzas, bave always eplit It occurs when, through disregurd of philology and palmography, they prefix an 8, or other sibilant, to the Hebrew KUSh; and, reading \&KUCH, Serthi, Exoted, \&ce, make this patriarch the father of Seythians, Saca, Saxons, Scotchmen, and even of American Indians? One blushes to treat such sbsurdities seriously in A. D. 1858. Nevertheless, the disesse is inveterate with many Writers "立qui il me manque rien que la critique;" and it behooves un to note our "caveat," hecause, as Bibbop Taylor aajs, "it is impossible to make people anderstand their iguorance; for it requires knowledge to perceive it, and therefore be that can perceive it hath it not."

A dry recapitulation of the results of stadies, that could not be presented in full under half this volume, logetber with refereaces through which the reader may verify enactness, is all that the anthors can now offer on the kieroglyphical KSh, the Hebreve KUS, and Greek A!Adria.

1st. That the KeS $h$ were Africen aborigines - probably similar to the Bardbera of tbe present doy; bat wero not NAHSI, Negroes.

2d. That their habitat, from the XYIIth dynasty downwards, was closer to Fgypt than that of any other Africans - probably Lower Nuhia, because the KeSh aro the Arst people encountered in Egyptian expeditions above Phils,

Bd. That their name, still preserved at Tutzig in Kïh, Fac never KoSh, bat KeBh Kioh, or Kash.
[Lower Nubis, neareat to Egypt, woald seem to have been the residence of the Kith, or KeSh, anciently; just as we find a similar people, the Burdbea (who present striking similarities), there now. A curious little fact comes in opportunely to enpport this position. Tbe rains of the ancient town of Tutri, or Tusis, the military station "Dodecaschoenb," ara identified in the modern Gerf Hussènn A Coptic papyras, found there in 1818, established that its former name was Thosh; and the similarity of this word with "Ethsush," the Coptic form of "Ethiopis," or Komet [ubi supra], was long ago pointed out by Wilkingon, who escerkined, moreover, that the present Nubian name of $T u t$ tis is Kıse.]
dth. That this appeilstive, $\boldsymbol{K}_{\text {eSh }}$, in hieroglyphics, refers to a special Nabian people, without the silghtegt relation, linguistically, geographically, or anthropologically, to Tirhaka, beyond the fact that, like his pharaonio predecessors, he conquered and roled over them [oupra, p. 264, Fig. 186.]
bth. That the Africen KeSh of the bieroglyphies are totally distinct from the Aeintio KOSh of the Hebrem writers, and are never implied by the latter in this term.

6th. That the confusion, still prevalent on this sahject, proceeds from an infoffieient examination of old Hebref ethnic geography on the one hanu, and of Egyptinn records on the other, after starting with i fundamental error as to the Greek word "死thiopia."

7th. That KUSA of Xth Genesis decotes Arabia in its widest sense, and Arabin tribes of dark complexion,

8th. That, except perbaps in two or three donbtfal iostances, in the iater biblieal hooks, where geographical precision is ascrificed to poetic license, the biblical Ford KUS $h$ never crosses the Red Ses into Africn; and, even if it be sometimes coupled by a conjunction to $P$ hut, and to Lad, it never embraces those races we term Negrothe context, in every case, being susceptible of more rational exegesis.

9th. That KUSh in Hebrev is radically distivet from the Nubian KeSh of hieroglyphics, as well as from the $K$ ioh of our present day.

10th. That KOSh is not Exodat, Skuth, or Seot! does not inclnde Scythic, IndoGermanic, Tariar, Moagolian, or other races outlying the boundary of ancient Hebrew geograpby.

11th. That, excepting as regards ita application to Asiatic tribes of dark compiecion, KOEh cannot be readered by Aifioxta, in the tense in which this Greek word wes ased during Ptolemsic times at Aloxnndria, and by ourselves, without leading to equivoque; but, if we reshore to "Athlopis" its old Homeric meaning of "sun-burnt-facedpeople," tbere is no doubt that the KUSh, mentioned in parallel ages by Hebrow writers, were sometimes included among the Eastern, i. e. Asiatic, Sthiopians of Hesiod, Homer, and Herodotus.

12th. That, in erchaic anthropology, Ethiopian is as regre an adjective (without specific warning, on the anthor's part, of the meaning he stiaches to it) as Scythian Indian, or Caucaaian, and therefore had hetter be avoided by ethnographers.

13th. That the Coptic KHOUSH, and Thaush, or Ethosh, belong to post-Christinn dsys, and represent "Ethiopis" in the corrupt sense in whioh the Hebrew name KUSA was already anderstood by the Hellenistic Jewa called the LXXX, and by Josephan The former word, meaning dark, was naturaly applied by Egyptian (Copts) Jacobiea to African families and localities sbove the firgt estarsct of the Nile; the lattar, meaning "the frontier," and also (through dialectic matations of K and Th ), being a homonyme of KHOUS $n$, wes a natoral trangeript of "Ethiopis;" a neme which, from similarity of sound as mach as from identity, in Coptic days, of association with Africa above Egypt, had been proviously given to the Nubias hy Alexandrian writers.

14th. Finglly, that, ualegs worde and names are restricted to the acceptation in which they were used by each writer in his own age, the natural listory of bomanity,
grestly dependent as it is upon historical phenomena, can never rise to the level of a positivencience; and that sublime sentence, "the proper study of mankind is man," mouthed by rote without perceptions of its lofty import, and atill overlaid by theslogical clap-trap, will never reach practical realization.

To us, therefore, KUSh of Xu Genesib means Asia geographicalls, Arabiz topygraphically, and the dark Araba ethnologicelly. We pass on to claseify KUShear afflistions, in hopes that they will jontfy our d priori assamptions. 0 on

## KUSh as Arabian.

We bave shown in the foregoing retume that, amid geographical pargonifications of the Hebrews, KUSh was Asiatic geverally, no lese than Acryrian and Arabian espepecinlly. In consequence, it seema rational to seek for KUShean origins among Arsbic traditions, and Arab localities.

And here it is that the Recherches Nouvelles of Volpey take precedence over all those made during the first quarter of the nineteenth centarg. Volney: "Un dee hommes les plus pénérants de ce $\begin{aligned} & \text { iècle. . . . Si, parmi nous, Volney a profité des ecrits de }\end{aligned}$ Richarl Simon, ce n'est pas parceque Volney était imbu des principes de l'école matérialiste, mais à cnuse de l'instínct scientifique qu'il possedait profondément et qui, dnas ses écrite, s'est souvent fait jour, en dépit même de ses préjugés philosophiques." Orthodoyy can find no faylt with the words of Lenormant, whose riewa are eminently catholic, even in archmology. We gladly follow his example, when taking departore, in Arabian inqniries, from Volney. Nevortheless, since the peace of 1815, multitudes of scientific Europeans, profoundly versed in Arabic lore throagh arduous studies, or far more adventurous travels, bave given to Arabian researohes a propulaion similar to that received, sidece 1822, hy Egyptian, and, since 1848, by Asagrian Primue ink pares among the above, whether in the cahinet or on the road, ranks M. Fulgence Fresnel. Than his opinion French and German echolarghip at this day recogaizes noze tigher: because, in addition to a mind disciplined by thiry years of devotion to this apecinlity, no man, in Arabian inveatigations, bas yet enjoged M. Fresnel's facilities of actual ohservation. We select him, then, as our standard authority on KUSh, and Cushices: supporting it by the concurrence of discinguiabed Orientalists to whom his publications are familier.

The arbitrary Ptolemaic repartition of the Peninsuln into $H_{\text {appy }}$, Dereft, sad $P_{e}$ traan Arabia, has long ago leen abandoned by geographers. To the Arubs those foreign divisions were unknown. Into the varied districts designated by such alien names, old Arab tradition recognizes the introdaction of three racea, forming three diatiact nationalities; whose several origins being lost in the night of time, Mohammedan writera tave appropriated, throngh the Koran, Hebrew genealogies in the absence of history; so that it is now impossible to separate much of the exotio from the autocthonous. These three divera stocks of primitive Arabian nations, i. c., aRall, Western men - according to Ehn-Dihhiyah, followed by Fresnel and Jomard - were,

1st. The ARDA, or Abibah, Arabs par excellence-subdivided into nine tribes, claiming descent from Iran (Aram of Ger. x. 23), bon of Shem: from whom the semiEgyptian, semi-Hebrew, farimael is said to have learned Arabio:

2d. The MOUTA'ARIBA, naturalized and not pure Arabs; whoes geoealogies ascend to Qurix (Joktan of Gen. x. 26), sod of Heber, son of Salah, son of Arphaxad, son of Shem.
3d. The moustanriba, still less puro arabs; degcendante of Ighiabl, gon of Abrabam and Hagar.
Theye, in general, sre reputed to be the surviving Arabs; in contradistinction to the lost tribes of Ad, Thamood, \&c. \&c., destroyed for their impietien, hetween the times of "the prophet Hoos" (Heler of Gen. x. 24) and Abraham. "Dut the epirit of that entire table (Gen. x.), in which names of people, cilies, and lands, are personided.
leads us to conclude," says Gesenius, "that Meber was not an bintorical, but ondy a mythical personage, whose name was first formed from that of the people Thin was, doubtless, the cese with Ion, Dorus, and Eolus."

None of the above nations, however, attribute their deacent to an Hamitic affilintion through KUSh : and Hyde susiains that the Cushites migrated from Churisin, or Susiana, to the shores of the Euphrates and Porsien Oulf; whence it is probable their offishoots spread over Southern Arabis, and evertallly crossed the Bed Sea, in common with Arabs of the Semitic atock, into Abyssinie and otber Upper Nilotic proriaces.

With the Ishmaclitioh tribes of Arsbis, as they are not incladed in Xth Genesis, our inquiries bave litlle to do. Their distribation has been worked up, es completely as the subject admits, by Forter; although the attentive comparisont of Fresnel resalt in bat nine or ten nominal identifications of Arah tribes mentioned in the Bible, while ebove forty biblical tribes are manting in the lists of the Arsbs. The parely Semitigh families of Xth Genesia are allotted their own places in our Enany. To detertaine KUShite oecopstiod of Arabia is our bbject, now that, except is "вun-לurned-facer," they had no relation to African "Ethiopis," at the remote age of our biatorical barizon.

No one will dispote that, in the idea of the writer of XIth Genesie, the amblialions of Seiec, Hax, and Japhety, catalogued in the Xth, assembled, when "the whole ecark Wes of ome language," on the plain of Shinar (Gen. xi. 1, 2), whence they were dipersed by miraculous interposition. Among the number was KCSh, the father of Nympod; and consequently Aaia, on the banks of the Euphrates, was the primitive sterting-plnce of himself and children, viened as men. Conceding to orthodoys their departare thence towards Africa, Arabia was inevitably their road and halting-place. The only differences between debaters are questions of time: our riew lieing that the KOSheant remained there for indefinite agea, and that their African emigrations were partial, us well as chronologically recent; to be demonatrated, anon, by the Arabian concentration of their several descendents.

The many acriptural citations of our preceding remarks establish that KUShiles were gtill in Arabia at a far later period: a notable inatance being Zerat the Cwaite, in the time of Ass; to place whom in Africe, becsuse the $L u b t m$ and $C u m h m$ ara united in 2 Chron. xiv. 8, when the Cushim alone are recorded in the bistorical narrative (a Chrof. siv, 8-14), merely to accumulate proofs that no confidence can be given to either eceonnt at all, is, to eny the least, incnutious. The KUSherns were yet in Arsbis, bt the cime of Jereminh's (xiii. 28) interrogntory, "Can the Cushean change his skip?" which cortrabt, we have shown, applies to the dark Arsbian tribes, ahounding in Arabia then at now. But, dest our application ahould be considered dubious, this fact mast be cantomplated froma more philosophic point of vien.

It is acknowledged by the highest ethnologieal students of our generation, Prichard, De Brotonne, Jacquinot, Bodichon, Pauthier, and others, that wherever in AustralA biatic latitades, Hindostan for esample, tradition yet pierces through the gloom of Lime, the dark, or black, families of mankind (spesimens of whom also survive there to our day) hape invariably preceded colonizations by the Whites, or higber castes It in also claimed by Karrick, Bonsen, De Brotonne, and Lenormant, that the great Hamisie migration westwards throngh Arsbia antedates the Semilic: in other words, that KUShites were settled in Southern Arabia prior to the arrival of Bjourhomida, Joktanida, or Abrahamidx - Eemitish tribes, like the Hebre\#s, of fajrer complexion. The get doctribes advanced in this volume [supra, Chapler VI.] relative to the improving gredations of fype, in humanity's soale, then we consider each family of mankind, one by one. from the Cape of Good Hope to the Caucnsian mountains, show how a dark group of men ought to present itself in Arabia, the immediate Asiatic successors of the swarthy Egyptiana: Egypt-proper, according to ancient opinions, bow corrolorated by zoological facts, being far more Asiatic than African is its naturad bistory and phenomena. What group answera all these conditions bat the one to which, from imme-
morial time, the name of KUSh bas been appropriately referred ? Eren as late as the fifth century after Christ, Syrian authors, cited by Assemani, desigosted Fimyarite Arabs by the name of KUShites.

And this brings us to the point where Fresnel's discoveries establish the entity of a fourth groap of "Arebs," distinct from Semitish families, deling in Southern Arabia from ante-historical ages to the present hour.

Cersten Niebuhr, in 1768 , firet announced to Europe the positive exigtence in Soutberri Arabis of inseriptions. Which old Arsb anthors hed characterized as Humad, ' Fropped up,' and had considered enterior in age to Isiem, no lese than to the present Neskee and its parent the Cuphic writing of Mohsmmed'e dsy. De Sacy, 1805, with his usual scamen, ioveatigeted the subject; Seetsen, 1810; Gesenius, 1819; Kopp, 1822 ; and Hupfold, 1825 ; chiefly from Ethiopis (Abyasinian) data, advenced its study; until Wolisted, 1884, and Crittenden, (offieers attached to the Eest India Company's surveys, disoovered inscriptions of the highest intorest, cot in the old Himyaritio alphabet, at Him Ghordb, \&e

The kearned critique of our friend Prof. W. W. Turner would greaty simplify en expoeitory task, could we berein digrese upan these Himyaritic inscriptions, the earlieat date of which falla far below the Christian ern To his acathing refusal of "one particle of sympathy for Mr. Forater" riewed as tranalator (1) of the Himyaritic, we beg leave to edd onrs in respect to this gentleman's more recent "Sinaic Inscriptions-V Vice of Isracl from the Rooks of Binai"; and to apply Turner's juit strictures to both of the Rev. Mr. Forstar's fabrications. "His wholly false and inconcluaive method of deciphering the inecriptions, the bombsatio strain in which he dilates on his achievement, and nbove all the dibingenuous artifices by which be seeks to disguise the hollowness of his pretenaions, ronder bis perfornanoe [whother Himysritio, or Sinaic, or, Worse than either, bis last pseado-hieroglyphical!'] deserving of all the ridioule and censure it has met with." It is aufficient now to mention, that Hant's refutation also lies before us; together with the Recherches err lea Inacriptions Himyariquat de San'a, Khariba, Mareb, \&e., through which Freanel's claim to the reanscitation of ancient Hjmyar is universaly aciknowledged.
M. Freanel's IVth and V'th Letters to the Jownal Asiatigur, "Djiddah, Jan, and Feb. 1888," give a sprigbUy account of his rencontre with a "pirstical grammarian" yclept Houkheis; through whose and other fortuitons sids, be constructed the vocabulary of a atill living tongue, spoken at Zhafar and Mírbdt, in Southern Arabia; which apeech, now unintelligible to Semitio Arsbs, is celled $E h i l i$ by native speukers, and Mahri, or Ghrdni, by surrounding tribes. Thie extraordinary language, whose exiatence was unnuspected until 1888 by modern philologers, possesses thirty-four to thirtyfive consomant articulations, six pure voweh, and as many nasal-approximately, some forty-seven different sounds; anong which three are utteriy inexpreasible in any European alphebet; ad one is altogether too inhuman for any man hut a true Zhafarite io enunciate ! Of the twenty-aight articulations current during Mohammed's timo in the Hedjus, two have become superflaous in the vernacular Arabic (Ddrig) of Cairo; nevertheless the old Arsbic alphsbet of twenty-eight articulations is 200 poor, by nineteen phonetica, for tribes living at Mirbed and Zharar!
[They complotely deatroy, Freanel atates, "la symétrie du vigage." Even Moukhsin thought the facia! contortion ridiculons; though he told M. A. d'Abhadie that none of his tribe pronounced three of those letters on the lefl side of the mooth. "Pour rendre le son du_i it faut cbercher a prononcer un Z, en portant l'extremito de ia iangue sous les molaires supérieures do coté droit" mach is " Himyaritic euphony" : Having hambly endenvored, "in suld lagg syne" at Cairo, to imitate my friend M. Fresnel's attempta to rival Monklasin's mode of oral articulation, I was, and still am; at a loss to define the agonies of its intonation, otherwige than by reprinting how, "wbile (this letter) somewhat reserbbles 山e 'LL' of the Welsh, (it) ean be articulated only on the right side of the mouth - being acmething between 'LLF,' a whiotle and spry!" a. R. Q.]

Gesenjus had divided Semitish langnages, classified as they are too vegualy, into three main branches: -

1st. The Aramaan, spoken in Syris, Mesopotamis, end Babylonis Thin is agsin divided into Enest and West Aramean ; that is, the Chaldee and Syrian

2d. The Canaanitiah, or Bebrew, spoken in Palestine and Phesicia Of this the Punic is a degcendant.

8d. The Arobic, of which the Athiopio is a parallel branch. The 8amaritan in a mixture of the Hebrem and Aremman.

To the sbove, Fresnel's discoveries add a fotroh: viz., the "Ehkeelee" of the inhe bitants of Mirbat and Zhufar; one which be coneiders among the richeat and moat ancient in the world - slied to the Ethiopic, but more archaio; preserved in Arabia by a peculiar femily (long ant off from the rest of mankind by witd Bedawees of the Semitic stock, with whom, it is anid, the Zhsfrites never internantry)-desoended probably from the Homerite; in whose mame classical annelists bave preserved to 口s the original word Himyar (Arahice, Ahmar), 'the red-men,' as the distingnisbing tille of the once-great Himyarites of Saba nod Mariabe
"He who entera Zhafor Ifimyarizes," is an ancieqt Areb proverb, which nhowe that the Zhafêrites चere different, in some striking peculiarities, from Semitinh tribes, and that visitora were constrained "to opeak the language of the country;" as unintelligible even now to Ishmaelite aod Joktanide Arabs as the Baeque is to Frenchmen or Spaniards. Now, this tongue and the tribes that epeskit, are considered by M. Freszel to be the true relics of KUSh; owing as mach to the abondance of word foreign to Arbhic contained in its dialects, as to the siogoler charecteriatics of the epeakers themselves; whose antiquity at Zhafar reaches beyond all bistory. Tbe daring of Dr. Arnaud, (who, at Frescel's instigation, penetrated where no Europenn ever reached previousiy to 1844, and copied multitudes of Himyaritic inscriptions on the ruined edifices of Gana, Kharibe, and Mareb,) has confirmed, in all important respects, the existence of these buman vestigies of KUShites in their earileat Arsbian homestend "even anto this day": and the men, their language and monumente, baring now been found, our resalts on XHh Genesis may be finally tabulated as followe: -

1st. That by KUSh the Hebrew chorographer meant dark tribes of Southern Arabis, who probably ishabited that section of the pecinsula prior to immigrations of strictly Eemitish Arabs. They are the Homerita of Greek and Roman mriters; Hinyarites of Arat bistory; remnents of whom, speaking Ehtli, atill residing at Mirbat and Zhefer, are living witnesgen of the indelihility of primordial types.

2d. That other compilers of Scriptare corrohorata this view, and prove that in Hebrew geography the KUShm - bonoded at the extreme west by the "rivers of Cwh" on the Iathmos of Suex - epread across the peningula to the banke of the Euphrates; perhaps eastwardly to Chusirdan and Susiona. Their settlemente, as Forster bes shown with commendsble felicity, ley dotted aroand the Arabian coasta of the Red See and Persien Gulf; separated originsily from the intruvive Joktanides, (as the writer of Gen X. socurately remarks, v. 80), by a line drawn trom "Mesha, ns thou goest unto Sephar" - the former being the Zames Mons in Central Arabie of Ptolemy the geographer; the latter, Mount Sephar, at the extreme fouth-west of the peninsula, where in Ptolemy's time dweit the Sopharita; and where at Zhaftr, Fresul's resesrehen (unquoted by Porster) prove their Ehdili descendants to live stili.

3d. That before future hagiographers place KUSh in Africa, as the Hebrew name for Nigritian racea (of whom Cobi, soripturally and pbysically, is no more the father Lhan Abraham himeelf), inmight be well, perbaps, if they re-read their "Bibles" with a littie attention; and not perversely close their eyes to the new lights that Oriental science is contioually bbedding upon an ancient code which, Lanoi emphatically nod trathfuly obserres, " is the more honored and revered as thought dives into it to Hilustrate and comprehend ic."

As Southern Arabia, and as dark (himyar, 'red') Arebian tribea, KUSh tnkea his rightful position once more in Xtb Genesis. 50

## 16. מ- MTr MaRIM - 'Mizrain.'

Semitic ; but certainly not the Hebrew 'tribulation,' \&c.
As it stands, is the plural of MTsR. With the Masoretic points, added aince the mixth century after Christ, it is a dual, Mrrsanis, meaning the two MTsRs. In the singular, MTeUR, it is the name (hy modern matives referred wiao to the city of Cairo, ) through which Egypt is desiganted in the form Muss'в, not merely by her present Arabicized people, but by all Oriental nations: and there being no dispate to the application of MTsUR by Semitic races to the land of Egypf, from the present hoar back to the rumotest period for which we possens records, our geneaincal purposes would be serted suffiently on reading Egypt for MTsRamm, were it not for fooliah rabbinical notions, rulgarly current, that; misunderatanding the principie of Oriental personifiestions, atill treat of "dirraim" in Xth Gedesis as if he had been really a man, "son of Ham," another individoal! One might as reasonsbly maidain that all the Rumiat, or the "two Russias," mean a buman being actually resident in Muscovy! Pandering to no such historical falsehoods, we briefly set the reader on the "royal rond" to their refutation.

The earliest personiflcation of Natzur, the singolar of MTsRIM, is not in the Bible, but in Sancouiathon; a very ancient Phoenician writer, who flourighed (nove will difputo) some time before Philo Dyblfog, about the seoond century after c., translated into Greek guch fragments of bis worke as reach our day through Athenmus, Porphyry, Easebius, and other trasseribers. Whether Sanconisthon be a mythe, as some maininin, or whether such a person really lived and wrote between St. Martin's adopted era, 1400 s. D., and Philo Byblius's nge, is indifferent; so long as it remains historical, that ander the name "Sanconiathoo," we poesens nome aruive of Pbonician traditions antedating Christian harmonixings, that cannot have been written alphahetically, secording to the lavs of paleography, earlier than the seventh to tenth centery b. c., nor later historically than the second century after the Christian ers. We bave no hypothesis to suatain beyond eatablishing, through these fragments, that "Misor" was the ancestor of the Egyptian god Thoth, Hermes-Thimegitur (Her-Mes $=$ 'begoten of Horus') of the Greeks; and consernently, that this Grwco-Phcenician legend is our mogt valid anthority for making a man out of the "two Egrypt"- Dpper and Lower - personified in Xth Genesia by commentators an Mitziaim.

The context of $P_{2}$. cy. 28, (and wherever else in canonical Hebrow reeords the tina gular form MTrUR occurs, suffices to prove that, by MTsUR, each Jewish writer meant Egypt an a country. If the sidgular number, MTsUR, is Hebrem grammar and history, signifes merely a geographical locality, upon what principle can the daal or plaral forms of the same ford constitute a man

Amoog the maltitade of appellatives given to Egypt by other foretgaers, the present name Musa'n reappeara in the Phoenician Muapa t.anopected to be sa error of copyist for Musra - of Stephanus Byzantinus; in the Martacia of George the Syncellus; in the Megserdis of the Pergian "Bonadehesch-Pahlevi"; and to on haokwards to the Persepolitan cuneiform inscriptions of Darins, oarved at Bethistun early in the fifh century $\mathrm{B} . \mathrm{c}$., where it is orthographed M'udrige. Two centries earlier, the name MASR, or Madr (also Mesrahoonn), is obiselled in Assyrian cuneatics on the thresholds of Kborsabad, among the conquests of Asarhaddon, between s. c. 709 and 667 ; and it mey exist perhaps on older scalptures of the niath centary s. c., diseovered by Ravinson.

Albeit, 700 yesm s, 0 . are ample for our object; ingemach as they prove that a ringular form of the name N/uas'r existed in Asia, in days parellel with, and probobly anterior to, those passages in the Hebrsw Text where MTrUR is its bomonyme. Its dual or plaral representative in Xth Generis, MTrRIM, is either a later amplification, or menniag simply the Mus'ritet, people of Mius'r, Egypt, exciadea the supernatural iden that Mizbaic was a man.

In this conorete sense of Egyptian, wo And the correspondoat of Mirratm in the

Matpases of Josephus, and of the Symeellus; but the latter uses it in his preface to e document, the Old Chronicle, Fhich every scholar repudiates in some mode more or less decisive. Those who now pretend to accept the Old Chronicle, or the Latercuiun, as genuine Egyptian, blur over Letronde's blighting criticisms. The kand of Jadzizing Christinn imposture stands out undiggaisedly in the other portion of the Syacellus'a chrouography - where be commences his "Latercaius" with Mcotpap onat Minns Mestrain (for Mizraim) the same as Menes! That the first Pharaoh of Egypt, Menes, should be metamorphosed into MTsRIM, the Egyptians, of Xth Genesis, by a harmoniring monk of Byaantium some 800 years after Chrish, sad at least 4500 after the denth of Nenes, is not extraordinary, when one remembers the pions frends of a school in which the Syncellus was peither the first por the last ormament; but that Friters in our day should reason from such and similar Greak-chureb literary jugglerios, that Nitraim of Xth Geneais was a man, inglead of en Oriental personifiention of Egyt, merely proves sach writers to possess, as Bensan bas it, "littile learnjigg, or less honesty." Our note 5 indicates volume and page wherein completa deatraction of Td valaciv xpourav, 'the Chronicle of the old times, or events,' may be found; and we are content to follow in the wake of Letronne, Biot, Matler, Baruechi, Böch, Bunsen, Raoul-Aochette, Lepsius, Kenrick, Alfred Maury, \&o. - all of whom, more or lest earpeally, reject the Old Chroniels, uniting with Bansen's condemastion of it and "similio, que bominis sunt Cbristiani, parum docti, at impudentissimi."

All Grecian antiquity, from Homer to Strsbo, bas desigated Egypt by names in Which no form of Nitaraim plays a part; nor can it be yet said tinat any true eqnive. leat for the Semaitic Musa'r has been discovered amid the nomberless appollatives given to their own country by Egyptian hierogrammales. Learing esido old fanciful analogies thet might be retwisted out of Champollion's Grammaire and Dictiontaír, Dr. Hinck's ingeniotr TO-MuTeRI, 'Land of the two Egypts,' soll beneath the knife of Mr. Davyd W. Nash, who substitnted TO-MuRE-KHAFTO, 'the beloved land of the two Egypts.' Synoellus's "Mestreans " wen supposed by Lonormant to be a compound word - MES-n-RE, 'son of the sun': but, lot, this has not been fonnd as a proper name in hietoglyphics; and, 2dly, the word Mcarpace is but a modern Greek trentecriber's corruption (not of an Eggptian name, but) of the Febrem and foreign wond Mitare-im. Mr. Bircb's "Merter (Mitaraim), is red uuder thy sandels," is the nearest approximetion to Mus'r hitberto suggested; and aeves discaseion here of the verions Kebraical solutions proposed by Roselliai, Portal, or Lanci ; some of which would mdmirably explain why the Hebreves gave io Egypt the name of MTsRIM, but none of which prove that the Egyptian nativea ever reoognised such foroign desigantion - any nearer, philologioally, then "Americus Veapucius" might, by some etymologioal gladiator, bo wrenched out of our "Uncle Sam." We return, therefore, an in so many other inglances, to Champollion's fiat of forty yeare ago: ris., that Muse'r, MTaUR, ad MTsRIM, in all their forms, were prohably slien to the denisens of the Nile, but were names given to Egypt and Fgeptions by Sevitic popalations.

But one query remains, In the original ides of the writer of Xth Genesis, whs MTsRIM a daal or a plarali The arrviving ponotagted Text (written or printed in the post-Christisn aquari-Lefter) reads, danlistically, Afitorain; which woald correspond perfectly to the Pharmanic division into "two Egypta," Upper and Lower - preeerved still in the Saedd and Bahreyeh of the modern Felleheen. We would gubmit, notwithstanding, that the Hasoreto diacritical marks flast between A. c. 606, and the eleventh century (age of the earliest M88. extant); and therefore ruch minute contingencies as a dual or a plural become, archmologically spealdig, rather problemntical. For onrselves, We think the plural form, ffitrim, most natural - Int, because it in the Hehrew literal expression withoat the later and superfluous points; and, $2 d$, because the plural N1TaRix, as the Israelitish name for Egyptians, amply atiefied all chorographic and ethnological exigencies whensoever Xth Genesis was projected.
"Misrajim." Bochart declared 200 yenrs ago, "non est nomen hominis. Id non
patitur forma daalis"; wherefore, denying that there ever was a man called "Mizraim," we read simply, for MiTsRIM - the Egyptians.50T

## 17. - פוט-PhणT - 'Pнит.'

Hamitic; not the Hebrew 'fat,' ' despicable,' \&c.!
That this is Berbary - i. e., the Africen conat along the Mediterranean west of Egypt - no one donbts. Differences of opinion here resolve themselves into mere conjeotures as to opece.

The most salient feature of Phut, obsertable in Xth Genesis, is that this personificstion has no ehildeat - i. a, colonies, or affiliations; which, coopled with the vague demarcations of Phut in other Scriptnoni passages (Naham ili. 8), shows that to the Hebrews this name meant generally North-western Africe; embracigg families of man too remote to be deacribed. The word has since spread very extansively over Africa, if Foute, Fousa-Toro, Fouta-Bondou, Fouta-Djailon, 80., names of Fellatah States and tribed, be ite derivatives; as Fas, the kingdom of Fex, is, without question; nominally replecing the Regio Phutarir of Jerome's Lime; Ptolemy's city of Foutir; and Pliny'e river Phuth flowing in Manritania, tine country which Josephas considers the equivalent of Phuf. Indeed, thare is no lack of old names, throughout the Moghreb, (part of which containing "Putea arbs, Phul flamen, Phthia portus, Pybtis extrema," - $a$ an anciontly called Fruteya), like Phthamphu, Phthemphuti, Phaututi, \&c., to eatablish Phuc's existence at all recorded ages, close to the Loulint, Lehahtm, and similar Libyan designatiows in Xth Genesia

Bonsea reads Phut as Manritania; considering that tho river Phut of Pliny is equivalent to the Punt of hieroglyphics; the $x$ or $x$ left ont, as in Noph for Memphis, or Shishat for Sheshonk Bireh holds the hieroglyphicsl eign (which sacend in antiquity to the earlieat monaments) to mean the " nine bows. This word bas heen read Peti, nad supposed to be the Beriptarsl Phw, the Libyenn or Moors; but it must he observed that the hieroghphieal word Peti is always applied to a lerge unatrang how, in ethnio pames." Upon the eoneatle soulptures of Assyria, and among the conquesta of Asarheddon, De Sauloy has read - "Pepalum Pout, hos et genten federatas."

As "PheT-kah" or bow-counity, or ap "NiPhT - countries," determined by nind bove, this neme for the last quarter of a century has been identifled with Phut, (or rather, comfounded with the NiPhainT-true representatives of the Naphtuhhim of Gen. x. 18, ) in Egyptian sculptares of every epoch; and, without doubt, refera, in hieroglyphics, to Libyan families of Amanighs, Bhillouhs, \&c., that onder the present general denombation of Berbers atretch westwards from Lower Egypt to the Aclantic.

Deferring some oritical minatiex until we reach the Naphtukhist, our opinion on Phut Is, that in Xth Genesis it means those conntries now called Barbary; while in other biblical taxte it covers Hamitic effiliations along the Mediterranean face of Africa; to the exclusion of the more inland Negro races, by Hebrew ohroniclers momeationed. $s$ m
18. -

Hamitio ; not the Hebraw 'merohans,' 'tribalation,' to.
Upon no terreatrial persoalfication in Xth Geoesie, except Cush and Nixuod, has more theory been piled upon hypolhesis, than in respect to this luckless cognomen and the historioal nations that bore it.

Assuming that the Johovistic document of Genesis IXth Tas penned by the anme individuality who compiled the obsrt of Geneais Xth, orthodor commentators, from the Rahble and Fathers down to the uniaspired annotators of orir opn generstion, sorely ver thamselves with Noab's inebriate malediction -- "accursed be Kanatx. Let bim be aBD-ADDIM, slave of slades, to his brethren"-(Gen, ix. 2b) - Whereas, in the Text itself, Han the father, not Kanaan the son, was the graceless offender. In Heziod's

Greek version of the asme Chaldean mythe, bapless otpartc, Calur, had infinitely mare serious reasons for swearing at bis unnataral son Kpavas, Saturnus; while, es Caben hag duly noted on the Nouchian curge, "this is the fourth malediction thet ono encounters in Oenesis: the first being against a make, the seeond against the earth, and the third againat Cain."

Setting forth thence with a moral non-requitur, commentators next atiompt to justify B supposititious extermination of the guiltless grandson's innocent posterity, reeorded by "writer 2d"- "but of the citles of these people (the Canaerites), which IeHOtaH thy God gives thee for heritage, thon shalt apare nothing alive that breathes " (Deat. xx. 16). Yet, despite this and similar omnipotent injonctions to obliterste poor KNAAN, we find "writer 8d" (Jozh. Yy. 68) attesting bow "the children of Judeh could not drive out" the Canaanites from Lrael's holieat abodo, Jeraselem, eren "unto this day!" A faot explained by "writer 4th" (Jud, i. 10, 21), "beoanse (the Canmeniten) had chariota of fron"; at the seme time that "writer 5th" ( 2 Sasa. v. 7, 8, $\theta$ ) bearn witness that one band of Censanites maintained the atronghold of Mt Zion, Jewt, down to the reign of David. Even then, onacropulonaly heroic as that monarch was, he was constrained, throggh politice? exigencies, chronicled by "Writer 6th" (2 Sme xxiv. 18, 24), to bry from a Canamitish iand-holder, "Aratak, the Jebasite," the identical "threshing floor" on the site of which Solomon, according to "writer 7th" ( 2 Chros. iii. 1,8 ), erected a little paganish temple (smaller then ite duplicate at Ifierapolic) that, althougb only 90 feet long by 90 front, is eatimated to havo cost about $\mathbf{4 0 0 0}$ millione of dollars - United States' currenoy.

Other aticklers for plenary inspiration who, in direct contravention of the plain words of Genegis IXth (favoring the notion that Ham, and not bin son Cansan, wen acourged), contend that, in connequence of such malediction, Fam became the progenitor of black (Negro) races, may be set aside as entirely ignorant of Seripture. Pollowers of the learnel Dr. Cartwright's "Canaan idantifed with the Ethiopian" may be pleased to refer to the fac-simite portrait [strpra, p. 127, Fig. 19] for confirmation of \& doctrise which has the double misfortane of being physiologically and bietorically imposaible, as well as wholly enti-hiblical

We appeal to the sober asthor of Xth Oenesis for relief from such mental aberretions. His chotogrephy (constructed some time sfter Joshus the son of Nun, or Nas, had expelled such Canaanitieh tribes as sorvived maspace, or tolersted under the canqueror's yoke, along Lrrasl's rosds of maroh from Hount Sinai to Palestine) sthesth, ax post facto, that already in his time "the families of the KNAANI (had heen) dirpersed." (Gon. x. 18.) Large bediea of these peopie emigrated to Libye, mhere their nemes, traditions, and tonguea, exist to this day. Prooopins, in the airth contury ac. c , mentions an inscription Wherein Phemicions reoorded their flight into Africs, "from before the face of the brigand Joshue aon of Nane: " and in the fourth cantary, Bc Augustine, Bishop of Hippo, reinjes how, in hia diocese, "Our rustics, being asked whence they were, responded, Punjeaily, Chanani." Now, it is is fact as certain as any in history, that the Punic-Carthaginians, their parenta the Pbonicians, the Cananaites and the Hebrews, spoke one and the same tongue, bat with alight idiomatio provincialisms of difference. "The term ' $/$ ebrete lspgange' does not ooeur in the Gld Testament," says Gesenius, "though it muat have been oommon when part of it wes Fritten. Instead of this name, the language is usally termed the language of Canace (Isa. xix. 18)." So far, indeed, from Hebrew, as philological acionce nowadaye under stands the term, deserving honore, owing to its supposititious antiquity, ss the "lingua sancta" of Paradise (eccording to Usher, exactly $\quad$. $0.4002-8!$ ), it in pasitive that Abraham, greadfather of Iarsel, when he emigreted from "Ur of the Chaldees," epoke, not in Hebret, but, like bis Mesopotamian tribe, in an Aramaan dinlect. Igrael's deacendants, forgeting their mother-tongue, adopted afterwards, in Paiestine, the speech of KNAAN ; and, calling it "Hebrew," unwittingly sanctified the language of the "alave of sisyea," ingtead of that of the true Abraharides! During the Captinity, the

Jews agsin forgot Kanaanitioh "Hebrew." Retempered by some seventy yeara' sojourn In the Euphratio regions of their primitive origin, they brought beck with them a later idiom of that Chatdean lengusge which, modified by about 1600 years of time, was a lines! descendant of the pristine speech of Abrahsm, son of Tersh, son of Nahor, son of Serag, sod of Rea, an of Peleg; aon (that is, affitiation) of Eber - not a man, bat the geographical personification symbolized in Xth Genesis (21) by EBR, eber; s name which, like its Greek form, vezß and jts Latinized equivalent, Aberian, oHginally meant simply "the yonder land;" that is to say, Paleatipe; a country west of and beyond the river Euphraten! "Mebrews," as the foreign corruption of EBR, signifies nothing more than men from or of the other side - the Yonderers.

Every effort, therefore, made by orthodox Rabbis, Doctora, or Moolshs, Jewieh, Christian, or Mualim, to enhance the antiquity and holiness of the tongue they call Hebrew, only renders more venerable "the langage of KNAaN" : sud thus, by exalting as theologiana do, unintentionally, but positively, the "slave of slaves" above the chosen master, they enable the retributive justice of anience to make inbumanity and auperstition rindicate, in our nineteenth century, the memory of a much-injured people, who cailed themselves KNAaNI from ante-historical times down to a period far more modern than the Christian era-

The anceasing proclivity of the Israelites to adopt Canaanitish castoms and worship, to intermarry with Canaanitish femeles, to dwall in peace with or among them-despite denanciations attributed to Moses and the Prophets - no leas than the existence of Cananites everywher in Palestine after the Christian ers: these facts (erideat to every posseasor of a "Cuncordance of the Old and New Testaments") mereiy prove the strong natarsl affities of langunge and of pbyaical organiam common to both families. Nay, apart from sapernaturalistio caprice, the oaly satisfactory mode of justifying anch vehement declamations of batred towards KNAAN, found in the writings of Hebrew reformera, is to acknowledge frankly, that haman nature, rebelling against these homicidal proscriptions, often rendered them nugatory in practice.

Of the eleven effliations of KNAaN, only five, the Bethites, Yebousites, Emoritex, Ouirgasites, and IIvites, were established within the petty territory of Palestine. Add to these the Cancanites (possibly descendants of snother KNAAN) and the Pherisite, who were merely pessants; and we have the ecver peoples which the Hehrewa were anjoined to expel. (Deut. rii. 1; Jozh. iii. 10.) 'The desire was stronger than the deed, for the Jewa never entirely drove the Canaanites out, even of Jerusalem.

By classical bistoriana, the KNAaNI were known under the general name of torwas, Phenicians; and the LXXX often substitute the latter name where the Hebrew Text reads Karaanites. Herodotus and Later authora assure ub, that the Phaenicians came originally from the Persian Gulf; and the Kanaani, therefore, would not he indigenous to Palestine; bnt, nevertheless, they wore "already in the land" (Gen. xii 6) at the advent of the Abrahamida, and we regard themasa antoctiones.

Eusebius quotes Sancopiathon and his translator, Philo Bybling, for the fact that the Phoonicians called their country Xvd, a contraction of KNAAN. On Phonician coins the city of Laodices is called mother of Kanaan, Older than numismalic record, more ancient than Hebrew anamlists (Moses ont excepted), more positively nuthentio than ang souroe to which archeology can appat, are the Egyption monumeats of SetheiMeneptha I. and Ramsea II.; whereupon KANANA-land is frequently mentioned among conquered Asiatio nations, from the seventeenth - sixteenth century b. c. downwards. And it may assage prariency in those who fancy the KNAANI to have been African " ${ }^{\text {Ethiopions, }}$ " (though as " aun-burned-faces" they were certainly Asiatic,) to take another look at our portrait of a Conaanite, copied from seulptares anterior to the century in which the Mosaic Lawgiver is erroneously believed to have mritten the book called. Gencti-s portrait, wherein the features eatablish that (apart from Csnaan's priority of ppecth in the Lebraical "lingus sancta," as, eventially, "beatornm in coelis") the lies-

Hngrishable laws of type prove the KNAaNI, as history sleo testifies, to belong to the same zoological province of creation, though to a lower gradation of type, in the Abrebamida. Indeed, the root of KNA meanjing 'low,' and that of Abray, 'high,' one may perceive the real canse of early antipathy betreen the Canaaniter and the Abrahamida to lie in matual repuganaces between the indigenbus "low-lander" and the intruaive "high-lander."

Palestine, in its widest geographical, no less then in its restricted rabbinical sense, is writion history's oradle, and naturn history's birth-place, for KNAaN. $s$ om

## 19. סכא - SBA -- 'sebs.'

Porplexities sre here cecesioned by paleographical end phonetic differences between the letters $\mathrm{S}, \mathrm{S} h$, and S s.

Four separate nations or places, bs Bochart reminds us, art mentioned in Genenis by names transeribed through Seba or Sheba: viz. -

A, - Genesis $\mathbf{x .} 7$ - $\mathrm{KJJ.SBA}$, or Seba, affliation of KOBh.

C. - " $\quad$ 2

On these discrepancies Freszel bas wisely noted, that post-Mohammedan Arabs have lizewise forged genealogies to match some of those in Xth Genesis; at the rame time that different Hebrew annalisth often contradict themselves, no less then current Arebian traditions. Various are attempts at reconcilistion, to be consulted under oar references to Volney, Lenormant, Mank, Jomsad, and De Wetie; but, upon the whole, Forster's appear to be the most succesaful, viewed geographically. To us, nevertheleas, the only apparent difference between the four abovecited names is, that one (L) begina with the letter samey, S ; and the other throe (B., C., D.) with aheen, S ; that is, secording to the Masorete points added to the modern aquare-letter manuseripta after the sixth century; becsuse, those stripped awey, sheen remains Secan, or So.

Abrsham's grandchild, through Ketoura, the fourth ShBA (D.), is excluded from Xth Genesig, and, therefore, appertains not to our reasarches; except when noticing the coofuaion he produces in Arbian genealogiet. Nor, for similar reasons, do we speaulate on which of the four names might apply to the unknown region whence journeyed Solomon's "Queen of Sheba"; whom Josephas makes sovereiga of Egypt and Ethiopis; and whom the Abyssinians bave ever claimed sa their own; her illegitimats son, by Eolomon, heing the legendary progenitor of all their kings. The gifes which this "illustrious inquirer after trath" made to King Solomon \{ Kings x. 10; 2 Chron. ix. 9) - eatimated at $02,817,080$, of $\mathrm{U} . \mathrm{S}$. coinage; besides any quantity of apices and precious stones - are enlarged upon by Forater, who considers this ledy to bave been "Queen of Yemen" in Southern Arabia Indeed, "the offerings of the Queen of Sheba" are believed, by Mr. Wathen, to have enabled Rhamoinitas to build "the indestractihle masses of the pyramids " of Egypt. Hoskiss, of conres, appoints this nbiquitous dame Queen of African Meroe: but Fresnel, commenting upon ingcriptioas bronght by Dr. Arnaud from the FIrdm-Bilhif-s great ellipticse temple, considered to be the "Sanctuary of the Queen of Sheba"-seems to have determined her Yemenite locelity, as well as the name B-Almakah; by which, representing a form of Venue, bhe became subgequently deified by the Babmans. Oriental tradition has consecrated, elsewhere, the voyages of princesses, about the asme period that Sheba's queen and King Solomon Interchanged nffectionate courteaies. So struck, indeed, were the Jesuit missionaried with the resembleace between the jourrey made, aboat $1000 \mathrm{n} . \mathrm{c}$. , by ' a princess named Si-weng-mon, the Mother of the Festern king (who aflerwards went to Ching,
bearing presente to King Mou-wang") and Bolomon's "queen of Sheba," that these pietiste sopposed the Chinete sceount to be a mere traveaty of the Hebrew books of Kings or Chromizlas / The ers; many of the presenta; the miraculona facilities of transportacion over similnr immense distances; and the manner in whioh the "Mother of the Western King and Mon-wang abandoned themselves, even at the end, to all the deights of joy and songs," curiously correapond. Still more singularly;--the Chinese book, in which these partluelism are recorded, is called Chi-i (i. e. collection of what is negleeted) — name identical with the Hebrew Dibrd haiamim, and the Greek Paralipomena (thinge left out): in whioh latter volume, under our Engtioh designation of "Chronioles," the queen of Sheba's risit was registered, like the Chinese atory, hy far later scriben, until copies becsme malliplied ad infinitun, through the bleseing of movealle types.

Deeming, in common with the highest biblical exegetiste of our age, Solomon's "queen of Sheba" to bo leas bistorical than Mon-wang's, we are fain to leave her out of the argament; no lese than Josephas'a opinion that African Mrroé wan intended by eny "Saba" of Xth Genesis. Whiok donbts submitted, let 08 remember bow Pling escares us that the Sabceans stretahed from sen to sen; that is, from the Persise to the Arabian Gulf: and, inasmuch as four distinct nations of Arabia are recorded under the appallative $S e b a$, Sheba, Seeba, or Saba, it is uncertain whether any one of them ent be specially identified at this day. Nevertheless, they are all circumscribed hy the "Gexeeret-el-Arth," or Iste of the Arabs; and Seba (A.), the first of Cronesis Xth, as a KDShite affiliation, belongs to the kinaydr (red), or dark-ghinned race; - not improbebly now represented by the tribes at Mirbde and Zhafar, who still apeak the ofd Ehkicker tongua,

No ohjections militate againat Forster's alilfolly elsberated conclasion, "that the Seba or Sebaim of the Oid Tentement, and the Sahi or Asahi of (PLolemi) the Alexandrine, denote one and the same people; ${ }^{\prime \prime}$ and that "the tract of country between Cape Mussendom and the mountrins of Sciorm was originally the eest of Cushite colonies ; " becsase, an Forster's mape and reasonings establieh, Cape Musseadom was styled, by Ptolemy, "the promontory of the Asabi," near whith now liea the town of Cercas (Cushan of Hebrew writers); sad a littoral termed, by Pling, "the shore of Ham," Litue Hammeum, now Naham [Mo-KhaM i place of BAM]; mdjucent to which is a FFadee-Han, Falley of Ham ; prove thet, all around this ceotre, many local names, commemorative of KUShite eftlements, even get exist.

Not to dogmatize, we conceive that Oman, province of Soathern Arabia, buffices for the pristine habitat of our Seba (A.). 000

## 20. חוּלה - KhUILH - ‘Havilah.

Tro Mavilah, both spelt exactly the esme way, one KUShite (r. 7), and the other , Joklanide ( $\mathrm{v}, 29$ ), occurring in Xth Clenesib, their separstion is difficult: Without harasping ourselves aboat the third - "Land of KhUILH," in Gm. ii. 11 -which, being ante-dilurian, concerns not buman history.

Here again Forster is an excellent guide, becsuse he does little more than copy Bochert Absiguing to the Joktsnide Havilah the eeversl districts bearing this name in Yemen, he naturally seeks for the KUBhite Havilah about the Persien Gulf, fixing upon the Babreya islands as the pivot of inquiry; one of which adill retrins its original mame, Aval. "In order to illustrate the ancient from the modern rariations of the proper name Hwilah, we must begio," he senaibly observes, "by removing the dis. guise thrown over it, in our English veraion of the Dible, by its being there spelled wecording to the Rabbinical pronunciation. The Hebrew word, written Havilah by adoption of the pointe, without points would read $H$ uile, or Mauila;" and thereby its identity with the Huala of Ptolemy; the Huala of Niebuhr; the Aval, AGal, Huale,

Khau, Khall, Khaw, Khauldn, of modern Arabio, beoomes tranoparent to geacrid readers.

Thus, eviarging Bochart's ingenions comparibons, the rinar of the LXX; the Cinblasii of Dionybins (Periegetes); the Ebritaan mountains of Ptolemy, still cenlled Atral; the Chaulathet of Eraslosthenes, and the Ckaldai of Pliny; become resolved, by Forater, isto the powerful tribe of the Beas-Khated: Whope encempments dot the Perincole from Damascus to the Stralts of Bab-el-mendeb; from Mekte, on the Arebian coast, round to the Porsian Golf and Menopotamis ; often on sited where some remembrance of their parental Havilite appellatives ia traditionally preserved "umo thin dey."
"Be non à woro, slmeno $\theta$ ben troveto": end, in the prosent state of knowledge on Cantrsi Arabis - wonderfally amell, our nineteonth centary considered - if Cerlyle's "hammer of Tbor" might, perhaps, demodish Foreter's pioteresque edifice, we doubs that Thor himself ocuid ereot a subadtute more solid.

Albeit, otbnology may well be content when Arebis, and eapecially the shorea and iskands of the Persien Qulf, proserve so many reminisconces of three "Havilahs;" among which, througb clanest application of the "doctrine of chances," some loes habitation must atill exist for the sume and linagge of a KUShife KHaurhar.son

## 21. ספחת - SBTtH - 'Sabtah,'

What may have been the origin of the word Saba, which, sitaple or compoand, has been preserved in Arabia by Hamitio and Semitic affiliations, from primordial timea to the present, there appears io be po means now of ascertaining. Gesenias derives Sabaim from Thaba, the beavenly 'host'; which, as concerns the root Saba, mpeart somemhat ex port focto. Arab migration carried this name into Abyasinia, if the Sabes of Strabo be now represented by a town called Erabl; so too Josephas imaginea Meroe to have been called Saba, previously to ita adoption of the name of Cambyees's siater; bat Lepeias's Meroite discoveries prove the whole story to be fabalous. Bochart, cattiously, traced Sabatha, Sobota, of Pliny, through Sophtia, an isled in the Perxian Qulf, to the Massabathe on Median frontiert Plioy, however, any" "Atramuta quorum capnt Sobotale LX templa muris inc!adens"; which fires this city towerds Hadrameuh Of the three Arabian sites where nominsl remains of Subten are dow truceable, Volneg's edoplion of Boohart's index seems most appropriste: that of Pholemy's eity, Iapsa, Saphcta, Sabbatha-metropali, on the congt of the Pergign Gulf, in the provinct of Bahreyn; where the Sad Arabs roam at present, as Forater's maps confirm
"The Homerity," states the great hydrographer Jomard, "the Fadramite, the Curtramotile, the Sabai, the Sapharitim, the Omanite, the Maracites, the Mioieri, the Thamudeni, lived where nowedaje even are the people of Hemyar, the people of $\boldsymbol{H e}$ dramaut, the people of Saba (or Mariabs). the people of Dhafar, the people of Omas, those of Hahrah, those of Hfina, of Thamoud, end many other peoples, of which the name, any more than the existenoe, does not appenr to bave suffered from time." And it will manifest the paine now bestowed by Orientalists to discover these Arabin. locelitiea, to add Fresnel's anccessen : - "The famous emporium of Kana is decidedy identifed with Hisn-Ghorib" - and "the lown of Kharibel, discovered by M. Armaud, is the last term of (Etius Gallus's) Roman expedition (Caripeta)."
i Though we cannot yet place our finger on the exact spot, there ia no reason for seeking Sabtah elaewhere than among KUShite afiliations colonized on the Pergian Galf. If not found already, the place and its tribes will soon be recoverad by the zeal of Arebian explorers. 6

## 22. הער — RAdMH — 'Rasah.'

Dochart's ecoteqess had settied apon Prypa of the LXX; Rhegama of Plotemy; Refmapolis and Kolpos-Regma in Steph. Byzantinus. This name is asid by Strebo to aig-
nify 'Etrata'; which meaning eingularly corresponds to the narrow entrance of the Peirsian Gulf, on the Arbbian side of whicb Forater's maps $6 x$ Raamah, and ita two colonies Shuba and Dedan; slready groaped together by Esekiel (xrij. 20-22).

The inland province of Mahrah preserfes the phonelic elementa of Raamah; and there it is that, nt Mirbdt and Zhafdr, Freanel's diveoreries of the Ehketele tongee, called also Mafrec, establish the existence of a people, distinct from Semilish Arabs; sarvivors of the old Himyarite (red) atock: the dark-skinned Arabias of KUSAite lineage, represented by the awarthy Dowainir tribes, as reported by Burokhardi and Felisted.

These people were called Rhaminite and Rhabanita by Homas anthors; and Ramss, an Arsb port jast inside the Persian Gulf, perfecly answort to the site of Ramah catalogred among KUBhtc personifications in Xth Genesis.efu

## 28. סבכת - SBTtKA - 'Sabtechah.'

"Sabtaka is thrown by Josephus into Abysainian Ethiopia; by Bochert, into the Persic Carmanis, under pretext of resembling Samydake : these two hypotheses seem to us rague and without proofs. Sabiaka has no known trace." So far Volney.

Yet Bochart's suggestion of m for $M$ offers no palmographio difficulties; and if Samedake coold be identified, SaBeTAKe might be Sabteka, situate in Kermin, near the Porsian Gulf.
" The Sabatica Regio of the ancients, a distriot spparenty in the neighborbood of the Shat-al-Arab, is the only probsble vestige I can diseover," says Forster, "of the name or settiements of Sabtecha."

For par purposes, this excellent indication is anfficient Personifying some locality or people of KUShite origia, probably nesar the mouth of the Eapbrates, the chorographic genealogist of Xth Genesis fizes Sabteta among Arebians of swarthy bae.ort

## 

[Our \&BA second (B.), ubi suproi]
Wo have already otated the dificulties of distinguishing which of four Arabian SBAs - KDShit, Yoktanide, und Ketourite or Jokahanide - are asaigeable now to the chart of Xth đlenesis, more than twenty-seren centuries subsequently to ita projection; but each one, by every prosess of reasoning upon facts, is ciroumberibed within Arabion denominations. If, on the one band, thme has readered minuta disaections nagatory, on the other it aperes ut the trouble of aeeking eleewhere for bistorical lights.

Offheots of RanMan, "Sheba and Dedan" stand contiguounly, not only in Xth Genosis, bat in Exekiel (IxIviii. 18), and belong to the same neighborhoods; whilst Isaiah's KUSh and BeBA" (yiiii. 3), onited by s conjunction, eerves to fix Seba among the darkakinned Arebs, where the compiler of Xth Genesis had traced thin name's genealogical afinnitied. But, at whotover age (probably Endraic; i e., efter retorn from captivity) the fragmentery docaments now celled " Cenesis" were put together, "e sort of spirit of investigation and combination was aiso st work. We are indehted to this," continues De Wotte, "for the genealogiagl and ethnographical accounte oontajined in the Peotatench. They are desigued in sobor esgneat, and are not without some bistorical foundation, but are rather the result of tacy and conjeoture than of genaine historical invertigation. To teat the ecoureoy of the table of Genesis Xth, compare the following' pansaget':-

## Genctis $\mathbf{X}$.

7. "The sons of KUSh, Sebs, and Havilah, and Sabtah, and Reamah, and Sebterba. And the mons of Rasmat; Sheba and Dedan."

## Generi XXV.

2. "Abraham [descendant of Sh M ] took E wife . . . Kotournh; and abe bare him Zitarsn and JoLehan, Medan, and Midian, and Ishbak, and Sbuah: and Joxgian begat Sheba and Dedam."

Now, both texis concentrate "Sheba and Dedan" in Arnbia. Nevertheless, the anostentotious care evidently bestowed upon his chorography by the practical compiler of Xth Geneais, favors his euperior securacg, and therefore we toke bis "Shebe and Dedan" to be the true colonial settlements of KUSh.
This is corroborated by Ezekiel (xxvii 22) - "The marchails of Sheba and Rankas, they were thy merchante: they occupied in thy fiirs with ekief of all prica:" not merely referring to the rich prodnctions of incense, myrrb, gums, and aromatira, reised in and exported from this part of Arabise then as now, bot also to apiorzier of India and ite inlands passing in transit through Sabeas haoda: which, in Joeeph's time (Ges. nusvii. 25), were conveged by inland contuan-porige to Gilead, thenee Ahhmedites "with their camela bearing apioary and balm and myrrh," carried them to Exppt; and which "maritime merchendisera," under the name of Tarshish, had cossigned to the Rogal Firm of "Solomon, Hyram, \& Co." by "cossters" ap the Red Ses ; and dispatched oia Petres lhrough this house's faclors at Elsion-geber: (coet of transhipmenta, froights, camel-hire, ingurances, intarests, brokernges, commissions, and grattages, no less than amount of shares or profica, to as unknowi).

Forster skilfully comparea the Plinean accoont of Ruive Gallug's expedition, "in the words of Gallus himbelf; the passage being, to all appearance, er extrect from the report of that general to his master Augustus:"-_" Sabeos, ditissimos aylvarum fertilitate odorifeth, suri metellis, agrorum riguis, mellis ceroqae provesta:" and moreover relates hov, "On his arrival before Marsasber, the capital of the Rhamenite, Aline Gallus, the Roman geographer informs us, learned from his prisoners that be Wan within two days' march of the apice country:" the very productions far which the Prophat of the Captivity had given celebrity to "Sheda and Rasmat."

Hence, the geographer of Arabia succeeds in idenlifying the Saba of RaAmat among the "Saberi, with their capital Mar-8uabe or Sabe; whose locality is preserred and detormined, in ito modern topography, by the town of Sabbia, in the district of Sabid;" mapped by him towards the soath western extremity of the "Inle of the Arebs."
"A highiy valuable confirmation of the identity of the modern province of Sabie. and of its ancient inhebitents, the Rhamanite Sabreana, with the Cuskite Renmah and Shebs, arisea on our first refersnce to the 'Description de l'Arabie' [Carsian Niebuhr's]; Where we find, in the Djebal, another Sablia, a large town or village, peated in a district retainiog, to this day, the patianobal name of Beni $K$ herf, or the sons of Cuab. Another district, of the earme name, Beni Koin, is neticed by our anthor is the Tehama. In the former distriet oceara a village named Beit el Kbetei [houre of the KOBhite] A third amall district oonneote the name of Cueb twith that of hio soo Rasama; pamely, that of Beni Khani, in the prorince or department of Rema. The city of Kurma, south of Zume, M. Niebubr righty conjectares to have derived ite name and origin froto Cash : a conjeoture which reotives strong light and conffrmetion from a remote quarter, in the corresponding denomination of Doost al Kauma, harbor of the ancient Harilsh, near the head of the Persian Golf; the scknoviodjed site of the earliest Cuhite sethemente"-i. e., of the trae KUShim of all Irreelitish chrocidera ; affiliated from the personifiontion KUSh, by whioh name the conapiler of Xth Genesis ogured thooe stoarky ruces that dwelt ab initic axcotly where they do now, vis: in Soudhers Arabia.
More conclanive determinations, in primordine ethnologg, than in this case of Shede (B.), it would be bari to discover. and

## 25. [רך -DDN - 'Dedan.'

Leaving aside nice diecrimiastions between the daplex Shechas and Dedant, the one Famitio and the other Semilc, we rearark that, being a junior colong to Shede, in Rhemenite sfillietions, this Dedan, through analogy, might bo fixed in Arabs, as we havo moan in the proceding neme, even without the preaise words of Lsaish (ixl. 18):-"in
the woodiards of Arabia shall ye lodge, 0 ye travelling companies of DDNIM," Dedanians: Which obvistea the necessity for aeeking ont of the Peninsula.

But the precise locstion of the geographical son of Ranmah, and brother of the preoeding Shebs, is fixed at the city and district of Dadenc, just outaide Cape Mussendom, on the Iudian Ocean; and taking its natural station among KUSHite tribes of Southern Arabia does not nogessitate further research 000

Fith the exception of Nimrod (to be disonssed as the next ${ }^{\text {name), who, none will }}$ diesent, belonging to Asogrinn history, cen bave no possible relation to African theories, here closes the generiacal catalogue of KUShite affiliations.

The educated reader tho had followed us through Hebraical, Greek, Roman, Coptio and hieroglyphical sourees, has now beheld every "Ethiopinn" postulate on KUS $h$ fall, one by one, beneeth the kilfe of bistorical criticism. As one of the present authore indicated, ten years ago, and as beth partially confirmed at a subsequent date by their erversl researches, the KUSAites of Xth Genesis could have been then, as they are now, once for all, glaed permanently to Arabia: whence to detach them again will be a vain effort, should the reader be plessed to wield in tboir defence the wespons herein tendered him. That the present liresome undertaing was needed, the reader can satisfy bimaelf by opening any English Commentary on Soripture; and almost every English writer bht Forster; who, following Bochart, has consistently vindicated the Arabian clsims of Kwh, to the exclusion of African fables: whilst henceforward the Ethnogrepher may calmly pursue his inquiries without necessarily exclaiming, when he tambles upon the mistranslation "Ethiopis" in King James' version,

## "Hlo riper tet; banc to, Homane, cereto."

[To my learned predeoessors in KUShite inquiries, who bave uttered opinions without first employing arobwologid processen similar to those herein aubmitted respectfally to their considaration, I beg leste to quote Letronne:- "One regrets to see orudite and ingenions men, of ceal and perseverance most landable, thas waste their time in paravit of auch vin chimeras, in allowing themselves to be led astray by agsimilations the most whimaial and the most artitrery. One might may, in truth, that, for them, Winckelmapn and Fisconti bed never appeared on earth, so much do they deviate from the reserved and prudent method of these heroes of archmology; who, not pretending to knot in entiquity but that which it is possible to explain through the aid of authentio monamente and of certain testimonias, knew bow to stop, the moment they foll the ground fail benenth their tread. It is thereby that they arrived at so masy positive results, and not at simple 'jeux d' esprit' or of erndilion, that eannot sustain an lnatant's sorions examinstion. Oor new archeologigts proceed quite otherwise: they take a monameat perfectly obware [like 天thiopid]; they compare it with a second, with othird, and again with others that are not leas ao; and, Thon they bare pleced side by aide all thene obecwitice, they pleasantly figure to themselves that they bave crated Light. Upon a first conjecture, tbey place a second, a third, and a fourth. Then, upon this oonjecture, at the fourth generstion, they erect an edifice, sometimes of appesrance anfficiently goodiy, because it in the work of srebitocte who posaens talent and imagination. This edifice mey syen endure, so long as nobody thinks of poking it with the tip of a finger; bat the momeat that criliciom oondescends to notice it, she has but to whif theroan, and dowe it tambles like a csatle of caris."

To "nos edveranires," as the Abbe Glaire focetioully has it-viz: the biblical dunces in the United States, whose seal in opposing the long-pondered, long-published riema of Morton, Agaeair, Nott, Van Amrioge, myelf and others, has been more remarkable than literay conrtesy, I now tura round for my own part, (after sbattering their anti-Scriptural KDSkite illusions in regard to Africa end Nigritian families, for ever), and beg each indizidaslity to accept the folloming cilation; the more partinent as
it emanstes from one of thembelven: - "But $I$ confess that $I$ have some considerable dread of the indiscreat friends of religion. I tremble," wrote the Rev. Bydney Smith, "at that respectable imbecility which abofles amay the plainest truths, and thinks the strongest of all causes wants the weakeat of all aids. I abaddor at the consequences of Gixing the great proofs of religion upon any other basis, than that of the vider ispeatigation, und the most honest statement of facts. [Auree parole, 'golden words,' as Lanci woald any]. I allow such nerrous and timid friends to religion to be the best and most pious of men; but a bad defender of religion in so mach the more pernicioas person in the whole community, that $I$ most bumbly bope such friands will evines their zeal for religion, by ceasing to defend it; and remember that not every man is qualifled to be the advocate of a cause in which the mediocrity of his understanding may possibly compromise the dearest and must affecting isterests af eociety." And if, in consequence, I discard their Cuhtica snppositions, I can only oxcuse myself in the words of Strauss : - " Les théologiens trouveront anan doute que l'sbsence de ces mapponitions dans mon livre est pen chrétienne; moi (je) trouve que la présence de cee suppositions dans les leura est peu scientifique." - O. B. G.]
27. נמרך - NMRD - 'Nimrod.' '

Before ns etands the sixth and lagt affliation of KOEh - to whom the writer of XH Genesis devotes more space then to any other personification seoondery to the partantal "Shem, Ham, and Japhet"-inasmuch as Give of the modern and arbitary divieions of the text, called verser, are especially set apart for Nimrod and his derivitione Hence we may infer that, in the mind of that writer, Nimrod's honor and glory wers jnherent elements. Now, the ansociations, the names of aifier attributed to Nimrod, the lenguage spoken in different dialecta throughont the Mesopotamian vicinitiea of their sereral locations, and their geographical assemblage in Bahylonis and Assgria:-these considerations, we repest, even were other hintor' silent, would lead arebmology to gaspect strong Chabdean bisses on the part of the compiler of $X$ th Genesis; and would incrase the prohabilities, to be enlarged apon tre we close this discusaion, that Xth Genesis is either s transoript of an older Rabylonian composition, or else wea compiled by some Hebrew imbued, lise Daniel for axsmple, with "the learning and tongre of the Chaldeans."

Such, prims facie, would he the archmologist's deduction when, diseogaging himself from prejudices, so less then from traditions of comparatively reent origin, he had songht to evolve ficts from the letter of Xth Genesis itself: eapecially when to this text he adds the only other pasages, (except, of course, the abridged parallel in 1 Chron i 10), in which Nimrod's name oocurs throughout the canonical booke, (rix: Misal v . 6); wherein "the land of Assyris . . . and the land of Nimrod" ere Chaldaio aynonymes for the seme country.

Bat, when once the inquirer steps beyond these simple and nstarel limitations, what pyramids of falsehood and misoonception interrene to prevent clear understanding of the words of Xth Genesis ! and how baseless the fabrientions upon which these Pyrtmids rest!

A "mighty hunter," whose imaginary deeds in vencris are atill proverbial with modera " Nimrods," founds the grandeat citica. The traditionary builder of a metropolis called Babel-aAB-EL, "grte of the Sun"; like the Othoman "Sublime Porto" or the "Celeatinl Gstes" of Chinese aulocracy - "prasto" becomes constructor of the "Tower of Babel;" when, so far as the letier of Genesis Xth and XIth be concerned, neither Nimrod, nor his innocent father KUSh, (asve as two individuals out of "the Whole earth," Gen. xi. 1), were more guilty in such impiety than KUSh'z grandfather NOAH, who "Iived after the flood three hundred and fing yeara;" or then enybody else of the seventy-one or two pergong - fathers, sons, grend-children, great grand-children: uncles, hrothera, counins, and what ant - whose cognomins are enumerated in Xth Genesis.

Cramped within the factitions limite of biblical computation, English writers in particular, following neither Soripture nor trae history, but the Rabbis; and unable to reconcile apposed Noschio orthodozy with the audden rise of so-called "idolatry," have seized, with rapturous eageraess, opoc the earlieat writer who is conjectured to have known anything more on the subject than we do ourselves; and these authorities betold in Josephas's Greco-Jndaio hallacinations a clet to the enigma.
"It is pain we knop that Nimrod hecame mighty, even to a proverb, if the nature and means of his elevation oanot.be undershood; or thet Bebylon was the beginning of his kingdom, nuless we can find the mesas of learning for what purposes, and upon what principles, that city was establighed," reasons, aomewhat illogieally, the unknown author of four very scarce octavo volumes on this speciality, of in which we abortively bunted for a fact: so thet, never having encountered any orthodoz commentary on Nimmd in which principles of historical cricicibn were not more or less dieregarded, Fe are reduced to the necessity of attempting to oxamine for ourselves: notwithstanding that the sabjoined " vieps will douhtless excite astonishtant in some, sad displeasure in those wbo," svers Godirey Higgins, the great Celtic antiquary, "while they deny infallibility to the Pope, write, rpeak, and act, as if they possessed that ettribute."

To begin. Let as framkly disavow partialities, in the words whith His Eminenoe, Cardinal Wiseman, eptly borrows from the great Adelung:-" Ich habe keine Lieblingtmeinang, keine Hypothese zom Orunde su legen. Ich leite nicht alle Sprachen von Einer her. Noeb's Arebs ist mir eine verscblossene Burg, und Babylon's Schutt bleibt vor mir völlig in seizer Rube."

Through the common Oriental mutation of B for M, the Ford NMRD, of the Hebrew
 Tel name? Cuneiform researches, so far as we yet know, have thrown no monumental light on the aubject: but bieroglyphical do. Two Pbaraonic princes of the XXIId dycasty - between b. c. 986 and 860 - bore this appeliative: one, son of Osoreon II., speils his name NIMHOT; the other, son of TaHeloth II., NMURT: end, Mr. Dirch observes: - "As the Egyptians had no D, but employed the eame homophone of the $T$ to express this soend in foreign names, this name is unequivocally the Assy-
 in the Assyrian, and unlikely to have beex iatroduced into an Egyptian dynasty, except through intertnarriage with an Ansyriad bonse." Subsequent researches have not merely corroborated Mr. Birch's riews on the intimate allisuces between Egypt and Aasyria, during the XXIId dynasty, but Rawlinson and Layard have eatablighed that cuneatic writinge, and many other arts of Nineveh and Babylon, are long posterior to Egyptian bieroglyphics, and were the netaral sequences of Egyptian tuition.

Monumental evideace, then, cootaneous in regietration with the ovents recorded, camies the name NMRD, at a single bonnd, from its currency in pariance among the present natyes of Asayria (as applied to places, such ae Nimroud, Birs Nimroud, Nimrouddagh, \&c. sc.), beck to the tenth century s. c., in hieroglyphict: -an age anterior, probably, to that of the Hebrew oompiler, or tringlator, of Xth Genesia; but While this feot corroborates his accurscy, it serves to sweep awsy sundry rabbinicel and other cobwebs that bagg between our geaeration and the primeval origin of the mord itself.

What did NMRD, originally, mean' No reply osn be accepted that does not, in a question involving such raet ramifcations, first olacsify ita componenta adverhially, under distinct heads: -

1st. Philologically: -We know not why the translation "Lord" reasulta from arrowbeaded inveatigations, and therefore relinquish discussion, on that ground, to such coneatic philolognes as Ramlingon, Hincks, De Baalcy, and others of thenew school.

It may at once be mokowledged that Oriental traditions, of whioh the Thalencio

Mishna and Guemaras of the present Israelites are but ode rill out of many streams, concur in representing Nimrod as every thing baughty, tyrannical, and impions; but nothing can be produced to justify these gratuitous essumptions, earlier in date then Josephus; who merely bands us the rehbinical notions of his day (first centry after Christ), when he calls Ns $A_{\text {pult }}$ the leader of those who otrove to orect "Rebel's tower;" and, as such, that he rebelled againgt Divine Providence. Now, before speealating, in opposition to the exprese words of Genesis Xth and XIth, what may have been NMRD's performances on that deplorsble occasion, it ought to be first shown that the fragment termed "Genesis XIth, ver. 1-9," posseases real claims to be conidered historical. This being as much out of our power as of any body else at the present dsy, Josephus's moders viewb upon NMRD's primordisl rabellios eervo merely to illustrate the proneness of the boman mind to explain the impanaible by inventing the marvellous. So we lay them eside, beyond the only historical fact reaniting from Josephua, viz: that, in his age, NMRD was reputed to have bean a rebel.
Such being the unique source whence fow all later theoriea apon KUSh's herosiek, and his son's enormities, we desoend the main stream as we find it continned, "oven unto this day," by the Rabbis:- "According to the Talmud (tr. Chagiga, ch. ii.), the anme NMRD, Nimrod, is derived from MRD, marad, to rebel, because its writera soppose that he inducel mankind to rebel against God. This, however, Ens Eras does not seem willing to admich but bays - 'Seek not a cenuse for every (Seriptorel) name, where none is expresaly mentioned;' on which his commentetor (Ohel Joseph, in loco) remarke, if the name of Nimrod is derived frem the canse siated in the Talmud, it ought to have been, not NMRD, Nimrod, but MMRD, Hamred.' Bol, according to Simones (Omomast. V. T. p. 472), the name Nimrod is composed of NIN, offapring, and MAD, rebellion; so thit NIN M MRD mateng filiur rebellionir. A portion of the neme NiN eurvived in Ninss, onder which appellation he is known to historians as the builder of Nineveh. . . . He bagan to be a mighty one in the acth (Gen. x. 8). SSetuing himaelf up agginat the Omsipotent, and seducing mankiod froan their alleginnce to the Lord.' (Reshi.) The seored historian intonda here to point oat' to us the first heginning of those movemente and convalsions in acciety, which led to the formation of atates and dominions, especially to that of royalty [!]. And, inesmuch as these movemente led to the overthrow of the previons atave of things, the name of the man by whom these changea were firat introduoed, NMRD, Nimrod, from MRD, Narad, to rebel, is peonliarly expressive." 000

There is - excuse the phrese ! - a verdant lacidity aboat this series of non-seqtitart that jusdifies our tedious extrach. In it we porceive the chain of etidence, an lawyers would any, through which Christian commentatore obtain thair Arst notions apon NMRD - "evidence" upou which each canfounder erects his own favarito tower of BBL, confurion. "Nous en convenons," concedes the Ahbe Glaire; " We agree that the fable of the Titens has come relation to the history of the tower of Babel; but may not one oonolude from it that the Greek poeth wished to inifafe the legisiator of the Jews, and surpass (enchérir sar) the veracity and aimplicity of his recital?"

But, suppose somebody happened to entertain the ides that NMBD may not be derivehle from the Cascanitish root MRD at ill; what, if such cese were proved, becomes of Nimrod'a rebellious propensities?

To ascerlain this possibility, a philologist must riee abowe the level of rabbinical hermeneutics

He have seen that the word NMRD was a proper name among pharaonico-Aseyrian individuala in the tenth century s.c. - an age antorior to most if not to al parts of Hebre literatare extant in our day. This biayllsbic quadrilitoral poeasing to remain any longer mere Hehrew) merges into the vast circumferance of Shamitish tongueg, of Which Arabic is the most copious representative.

Now, foremost amid living Bemitic lexicographers, atands Michel-Angelo Lanci, and his views are supported by students equaily authoritalive in their soveral specialitiea.

The substance of their researehes is: - that the primeval speech whence all Semitinh tongues have eprang was, aborigizally, monosyluabic in its articulations, and therefore at most biliteral in its alphahetical expression; whereas, at the present day, these langusges, Hebraw and Arabio essentially, are Aisyllabic and triliteral. "As vowel sounds," holds a supreme suthority, Rawlingon, " are now admitted to be of secondery development, and of no real consequence in teating the element of apeech, the roote of which are almost univerally biliteral ; the Bahylonien and Aesyrian [in which langagges NMRD's name originsted] being found in a more primitive atate than any of the Semitio dialecte of Asis open to our researoh [most be older] ; inasmach as the roote are free from the subsidisry element which, in Hehrew, Arameen, and Arabic, has caused the fritical to be regarded as the true hase, and the biliteral as the defective one." Ahove one hundred examples are given by Lanci; proving bow those words Which rabbinical acholars $\quad$ appose to be primordial Hebrew radicats, (i. e. of three letters), are but a secondary formation along the scale of linguistic cbronology; beceuse suffixes, prefires, or medial elementa, have become superposed, or interplaced, opon or within a pristine monoryllable. There was, then, a time before the period when the law of trititerab becamie formed; and while on the one hand the Hebrew tongoe preserven abundant moncallabic reliquice of that remoter age, on the otber, the preponderance of bieyllabic roots in Jawish literature eatsblishes toat sach literature aroer after the law of trititerale had alresdy become prevalent. This later age oscillates, it is true, between 700 s. c., and some canturies previously; hut cannot, by incontrpvertibla ratiocination opod historical data, be carried back to Moacie days - foorteenth century b. c. -a linguistio point in which all Oriental philologers of the new eohool coincide.

2d. Arehaologieally.-NMRD, therefore, older on Egyptian monaments than any Hebrep writings thet have come down to un, was alrealy, in the tenth centory m . c., a matured importation from its native Assyria; where, doubleas, this proper name had existed long previously: being distinguished by the, probably-Chaldear, projector of the chert of Xth Geneais, as the earlieat traditionary founder of very ancient citiea. To explain by a tri-liternl verb, "MRD, iteelf ausceptible of reduction into an earlier monosyllable, the quadriliteral hi-syllahic proper name NMRD, although not absolutaly impossible, preseats many chances of lnvolving ita adrocates in anachronisms; and mast certainly would never have occurred to modern Orientalists, had it not bean for the rabhinical legend 'carreat in Joaephas's days, which, thousands of yeara after NMRD's age, and hundreds later than Xth Genesis, endeavored to recodeile Asayrian mythes with a Hieroaolymite doctrine of genesaical origins. We have seen above, that the deripstion of NMAD from MRD, to rebel, is considered speculative efen by Talmudists themselves; and, with Gesenius's Thesauru, the writer (G. B. G.) would undertake, upon legitimsto principles of Semitic palmogrephy,-such as the commonest matations of D for N ; B for M; L for R ; T, Th, B , or S , for D , ke. - to draw a dozen, or more, bappier, and quite as orthodox, sjgoifications for NMRD, Hebraically, than that ungrasmatically twinted from MRD, which takes litife or no account of the protogramme $\mathbf{N}$.

Hear Lanci's more reasonable etymology. Fo give it regretfully, becauge without the ingenious argaments by which the Professor defends it in his Paralipomeni, and coupled pith all the reseryations due to pbilological intricacies of this archaio nature. The word NMRD is nonsense when mrung oat from the verh MBD, to rebel. It is a compoand of two distinct monosyllables, NM and RD. The former proceeds from the radical, preserved in Arabic, NeM, "to apread a good odor:" the latter from RuD, "to be responsible." NiMRoD means, Semiticslly (whether auch whs ite pristine Assyrian acceptation or not), "ho-vhore-royal-actions-corretpond-to-chegood-ador (af hil fame)."

But, difficulties cease not hers I In King James's version, is in all its MS. anceswrs back to the IXX (where riyas mombtr, a hanting-yient, in ita wondroen parm
phrase), the next verse (Gen. x. D) BLates that NMRD Fan a "mighty hoter 1 " Opon this trapslation hang chiliads of commentariea Leaving them in aurpension, we again present Lanci's etymologiea
The Hebrew word TsID (tranelated hunter) is not in this case derivable from 8גm, s Auntman; but comes from the Arabian verb WAD ; instead of Arabied 8UD, Hebraicè TsUD, to hunt. Now, WaSaD mesns "to be frm," to poseces candintency and stability; which quality, applied to the veat domains essigned in Xth Oenesis to Nimrod, makes the words OiDoR-TsID mean "great-in-lamded-tenemente"; and not "rigorous in the chase."

What of Aspyrian mythology, on the question of Nimrod, may beeome exhumed eventually throngh cuneiform researches, it is useless yet to opeculate apon. In the present stato of science, Lanci's exegesia, grammatically as to Hebrem, philologically se to Semitish tongues, and far more semsibly in conneotion with the probsble meaning of the mriter of Xth Genesis, stands of issolf, quite as well as, if not better then, the modern rabbinical notion of a "hunter." [Always ready for my own part to surnender any hypothenis the moment ita irrationality is proven, I submit (for what I eomceive to inse been one of the intentions of the compiler of Xth (reneais) the following retransiation of his sentences, ecoompanied by notes to some extent juetificatory. G. R. G.]

The personge who wrote Xth Genesis is anknown. The language he adopted whe Conaanitish, afteryards called "Hebrem." The aga in which he flanrished is obseare: the ajphabet used by him etill more eo. His individual himes, beyond a suppoebble Chaldaic tendency, enter, as respeots onrselves, into the vast family of bamen conjor tures. The madia through which this document, Xth Geneais, has been handed dowh sre, in a scientific point of viev, suspicious. The vicissituden (even when reatricted to the Hebrem Teat) through wbicb the origiagl manuscript has passel, in order to reach our eye in printed copies of King James's versiod, are not few: becnase, tho oldeat Hebrew manascripts of Xtb Genesis now extant do not antedste the tenth century A. c.; the Manorele diecritical marks, upon which orthodox commentaries mainly repose, were not invented before 600 A. c., nor'perfected until some 800 yemrs ego; and, finally, the Ashouri, squareletter, aharacter of present Hebrow MSS. cannot powsibly asoend to the second centary of our ert. It will therefore be conceded that, before the personal idess of the brat editor of Xth Genesis conld bsve reached our individualities, some elements of uncertainty intervene; independently of errors of transcribers and of tranaletora, from Hebrev into Alezandrian Greek; from both of these lengouges into Latin; from the thrae, in onknown quantities, into English : an conditions of doubt that connot, nowaisys, arebwologioally (and neither bagiogrtpbically nor evaagelically) speaking, be sltogether dodged. Upon such historical conciderations, we opine, the algebraical cbances of mistikes, in respeot to Xh Oenesis, are rather wore numeroas than those of exactitude in interpretation: albeit, Hebraically, the subjoined ettempt at an Englisb reatoration ann withatend ariticism quite es well as, according to St Paul, "Jannes and Jembres withatood Mosea"

8d. Biblically.-Geberis X.
Verse 8. "And KUSA begat NMRD (Nin-Red =mewhose-royal-aetion-correppothd-to-thegood-ador of hi fame); he first began to be mighty upon earth:"

Fer. 9. "He was a great-landed-proprietor before (the face of) IeHOusH; whence the anying - "Iike NNRD, great-landeri-proprietor before (the fice of) IeHOuali:" "

Ver. 10. "And the beginning of his realm was BaBeL; and AReK, and AKaD, and KoLNeH, in the land of BhiNAAR."

Ver. 11. "From this land he himself (NMRD noderstood) went forth (fo) ASADR (Aaryria), and beilt NINUeH and FeKhoBoTt-AaIR nod KaLaKh."

Var. 12 "And ReSeN between NiNUeF and between KaLaKh; (he) the (Nineveh undertood) the great citg."
[The text, in perse 11, is ambiguous. It may be read, at in King Jamea's verion,
"Ont of that land went forth Asbur ;" bat auch readering leaves ont an easential member of the phrase, the word HHUA, 'he himself,' befort the verb "went forth," Which can only refer to the antecedent Nimed. On the other hand, es the literal text has "went forth Ashur," the preposition to must be interpolated; bat not altogether arbitrarily, because learned Hobraists aver that this praposition is omitted in $\boldsymbol{N u m}$. xxiv. 4, and in Deut. iii. l, and yet its interpolation is obligatory to make sanse.

Indifferent to either reading, I will merely mention that three new and distinet tramalations of Oenesis, hy eminent Hebraists (Ginire's, Cahen's, and De Bols's), read, "Nimrod went to Ashur (Assyris)" - that this lest riadicates such oxplenstion by unanswerable argumente, while moot of them quote high acholarship in itn favor: and, finally, that the Hebraical profundity of "N. M.," who defends this view in Kitto't Cyclopadia, is of more Qermenic bue, and consequently deeper in Hebrew, if not parhaps in "geological" lore, than that of "J. P. \&.," who opposes it Non nostrum tantas eomponere lites: which futare cuneiform discoveriea alone can setulo.-G. R. G.]

The probable ideas of the constructor of Xth Genesis on NMRD, may now be summed op: -

1At. That Nimrod was an effiliation of KhaM (Egypt?), brarthy, or red, raoe of menkind, through KUSAite, Arabian, lineage.

2d. That, onlike overy other proper name, after "Shem, Ham, and Jophoth," in Xth Genesis, each of which is a geogrephico-ethnologicel personffication, NMRD Is an indioidual; the only one in the whole ohapler. Whether an ectual hero, or a mythological pertonage, cannot be gathered from the toxt.

3d. That, whether "great in the chase" or not, neither Nimrod'a name nor hin deeds, nor any thing in Scripture, justifies our aspumption that the Writer of Xth Genesis did not entertain high respect for Nimrod's memory: on the contrary,

4th. This writer distinguishes NMRD from all his geographical compeers, as promipent "before IeHOnaH."

5th. That Nimrod was positively the earliest "great-lended-proprietor" known to the writer of Xth Gepesis; who agoribes to NMRD the foundation of eight of the proudest cities along the Euphrates and Tigris-Babel, Krech, Acead, Chaine, Nineerh, Rehoboth-Air, Kalah, and Resen.

6th. And, fivatly, that the practica! writer of Xth Gonesis in fonooent of the sin of causing those incomprebensible delusions abont NMRD, Fhich, commencing with Josephus's hypotheses, only 1800 years ago, pervade all biblleal literatare at the present day.

Two inferences might, bowever, bo drawn from the said writer's pecoliarities: One, that the document, being Jehovintic, belonga $\mathrm{t} \boldsymbol{0}$ later age then that immediately after Jobbas; earlier than which, as shown forther on, the mention of Canamitish expulsions rendera it arehwologically imposaihle to plece the writer: to the other is, thest the writer not only was better informed quon Babylenish traditions then (to judge by his silence) upon those of other countries, bat that he derived plessare from the elevation of the former above the resh. Would not this imply Chaldaean anthorehip?

Now, whather Nimrod wha originally a demigod, a hero, or a "hanting-giant;" Whether, bader sucb eppellative, lie associations with Ninus, Beina, or Orion; or (were we to "travel out of the racond," what we ahould firat examine), whether he was not another form of the Aseryrian Hercules, to bo added to those so skilfally illas* trated by Rapul-Rochette-these are opeculations foreiga to our subjeot, and we refrain from their present obtrusion.

The compilar of Xth Genesis, whose meaning we atrive to comprehend, was astiafied to ascribe to NMRD the foundation of four Babylonish and four Asryrian cities; and, although the positions of some of these eight are not yet so positively fixed as might be deaired, they group together in Mesopotamian ricinities; and thas the last atflistion or KUSA becomes placed in Asia-further removed from African "Ethiopia " then the whole, or eny, of bis geogruphical bretbren 09

## "Affliations of the MTsRDM," or Egyptians.

## 27. לודים - LUDIM - 'Ledim.'

We bave already seen that Nitraina, reed according to the Masorete punctuation, is a dual referable to the "Two Egypts," Upper and Lowar; but, stript of the points which, after all, aro bot recent and arbitrary embellisbmento, that NTaRim is a ploral, meaning the Hifs'rites or the Egyptians.

The writer of Xth Genesis, therefore, in his aystem of athnic geography, deemed thase personified off-shoote from Egypt to be so many colonien or emigrations from that principal atock; and as such, we perceive that be suffixes to each name the plaral termination IM; thereby testifying that be never foresew modern assamptions in King Jamea's veraion, luat the LUDs, the AaNMt, the LHBs, \&c., should have been men; one yclept Lud, another Ansm, and so forth.

As gradd-children of KheM ( $\mathrm{Ham}_{\mathrm{m}}$ ), the haary ithyphellic divinity of Eggpt, these outatreams class themeelves ander the generic denominstion of Hantic families; and thair habitats onght naturally to be soaght for in regions contiguous to their mecribed focus of primitive radiations: without disregarding either, thet the writer of Xth Genesis, by making them cotains of Palestinic Kanaanites, sud of Arabian KCShifes (all isoues from the seme Hamite source), never sapposed that they were, or coald eqer become, Nigritian races: upon which lagt "Type of Mankind" be, as well as every other writer in the Old Toscament, observes the ssme judicious silence menifested throughout the Text towards Tungouses, Erquimauz, Caribs, Patagonians, Papuagu, Oceanianc, Halays, Chinces and other haman rices; the discovery of whose terrestrial existence sppertaing to centaries posterior to the ciosure of the Hebrew canon, Xth Genesis incluaive, at some period notearlier than Alexander the Great, i. c. 382 ; nor posterior to $\mathbf{B}$. C. 180, when the LXX translations were prohebly complete at diexandria.

Heace, to jadge by existing nomenclatures of tribes and places, LUD appears both on the Ariatic and Lihyen fianke of lower Egyph. Thaf, on the Syrian frontier, afew miles enst of $\mathrm{Y}_{\mathrm{ef}}^{\mathrm{a}}$, lay the site of Loud, Lydda, Diospolis; inhsbited afternards by Beqjamites. So also Arsbico-Berber traditions comprise the LaOUTah among Sabina tribes of Yemen, repuled to have immigrated into Barbary. But, whether as exotics or terageniti, it is on the Lihyen aide of the Nile, prolonged on the sonthwestern littoral of the Mediterranean to the Atentio - dintricts cut off through the absence of camelr during primordial aget end by Shharan wastes, from contact with Nigritian families of remote pustral latitudes - that the LUDim bave left memorinls of aneient oecopency.
Miobalis long ago correoted Bochart, and auggested the probahilities that the Luday, situate near the river haud, in Tingitann, were the Ludins: Jatterly confirmed by Gräberg de Hemeo; who shows that the Oluti, Oloti, Louat, exist among Amaxirgh tribes in those Mauritanian neighborhoads to thia dey; still admitting, too, the nutional prefir aik " anos of," to their names (like Mac, Fit, 0 ', Ap, among ourseives), as they did of yore, when the Carthaginian Amon registered in his Periplus the Ait-o-
 the Ledayas of Spanisb writers are now succeeded by the Beni-Lord. There is bo lack of vestiges of primeval LUD to be met with in the very regions where unelogy would lead us to look for them; and it is surprising that high sathorities have altogether overlooked the facts.
[My former " Excersas (in Otia Ayyyptinea) on the origin of some of the Berter tribes of Nubia and Libya," suggested a ventilation of ame diaregarded echnological deto, preparetory to that of Xth Gedesis, which, after five years' suspension, I am now endesporing to acomptish. I then submitled authorities on two grand divisjons of Barbaresques - a noun not derived from Barbari, barbarians, but from the abarigi-
nal Africsa game of BRBR - the Shillouht, and the $\mathbf{T}$-Amanirgh or Amazirgb-r; both reedily tracesble through the Mariess, Macii, \&c., of Letin anthors, back to the Magus of Herodotus - G. R. G.]

To render perspicuous the viem we take of Barbareaque antbropology, it would he necasesry to enisrge here upon gederalitios before seratinixing each genesiacal name in detail; but space being wanting, we must curtail our MS. investigations.

Two haman families, the \$hillouhs and the dfarirghs, now celled Berbert, have lain, either aboriginally or from antiquity beyond record, scattored from the Cyrenaica and oases weat of Egypt, athwart the northwest fece of Africa to the Jfoghreb-al-Aka, or extremeat west, of Marocchlne territories on the Atantic; and formerly even to the Guarthes, now extinot In the Canary Isles. Estimated by Griberg de Hemeo at four millions of pepulation in Moroseo alone, these Berber fimilies present diferences as well as resemblances comparable to those vieihle between the French and the Belgians: they apeak dialects of the old "lingus Atalantices," subdivided lato Baber and Shilha; and intermarrying rarely between themselves, have also imbibed little or no alien biood through emaigamation with others.

Anciently they ocoupied exclanively that Atalantic sone of osses, littoral or inland, which lies between the Bahara deserta and the Meditermanen; now ealled Barbary; "Land of Beregre," Berberia: and the remoteness of their residence along that tract so far surpases historical negetion, that geology alone may decide whether the Berbers can have witnessed those epoches when the now-arid Sabirs was an inland sean In any caso, wo may suppase thal, in proportion as ins salhacustrine barriers to communication with Nigritian plateaux became deaiecaled, the Berber tribes, driven from the const by Penic, Kansanitish, Greek, Egyptian, and other early invaders, spread themselves southwards; and, whilat their former inveders have been replaced by aucceasive Roman, Vandal, Saracenic, Ottoman, and Fremch eatablishments, that they themselves gradoally crossed the Sahars ; and now, under the name of Tharicks, some offighoots of this mein Atalentic stook, modified by the facilities such passage has afforded them of poseensing Negreases in their hareems, roam along both benks of the Niger and around Lake Tchad,

Bat the moutherly expansion of Berber familise, except in partial and codjecteral ingtancen, is bounded chronologically by one great fach, overlooked though it be by most mriters ; which is, that, until the convel was introduced lato Barbery from Arabis, the Sabaran wildorne日s presented obstacles to nomsdism almost insnrmountable. Now, the camel was not imported into Barbary until Ptolemaio timet. Meationed in hieroglyphics only as a foreigner, and never used hy the Pharanio Egyptians, the earliest historical appearance of camels in Afries detes in the first centory i. c. The rulgar notion of eamei-diffaion over Barbary before the Prolemies, Is mowedays archmologically erraneons. 610

It therefore follows that, whenever Xth Genesis was compiled, the Barbaresque affilintions of the MTsRam conld not have penetrated to the latitude of Negro races, sonth of the Sahara, by any other ronte than up tha Nile - Negroea never having existed, in a stata of nature, north of the limit of tropical rains. This long journoy Wha not undertaken by the powerfol MTsFlm themselves mach before the XIIth dyaasty, sbout b. c. 2800: so that the LUDHm, for exsmple, like all their uncivilized brethret, driven away from the Nile by the Egyptians; restricted from soatherly progress by the Saharn and the, absence of cannel, from northerly by the Mediterraneso and the absetce of shipa (Berber habita being the reverse of nantical, and Tyrian privateersmen hovering on those cossts); were, down to Ptolemy Soter, b. c. 320 (as the utmost antiquity), confined in their nomadisms within Barbary between Egypt and tho Auantic litioral of Moroceo. The lowest higtorical aga possible for the compilation of Xth Genesia attaing to the Badraic rchool-the earlieat (if the document be Chaldaic) may sntedste Bros by ame conturies: but, loglally, the more remote the antiquity
claimed for this othnia geographieal chart, the lesa possibla, physically, becomen Intercoarse botween Berber tribss (athwart the gehare and withont caneels) and the true Negro reces of Centrel APrics.

Contegt with offering thin dilemma, we pass onwerd, and remark, thet the Bofbert were generically termed Mayi by the Lomans, and Moort by "moyen age" miten; Whilht, if wo edopt Egypt es the geographical pivot of ecoentric radiations, we elall find, that thase Mauritanisn Bebbert on the weat are to the Sgyptiast whet wo have
 piang, in its Homeric mense of san-byrned-facse. All of them were pastibly diatingaisbed by the red color on Nilotle monuments; and the term $H 0$ mitie would be, geneaiecally, ethnologically, and geographically, the best designation for these reces; were is mat for modern Negro thoories, which ignorance and charlatanigm have fointed opon that myetifed game we now tpell "Ham." "One almoat blurhes," Agasiz has mecas ticully obeerfed, "to ntace, that the Fathers of the Charoh, in Northern Africa, hare even more recently been quoted as evidence of the bigh intallectanal and monl developmonte of which the Negro race is sapposed to be ctapsio, and that the monarments of Egypt have been referred to with the asme view. But, wo cel, hevo mem who do not know that Egypt and Northern Africa have never beed inhabited by Negre tribes, but sltrayt by nations of the Cacagian race, any right to uxpreas an opinian on this question!"
[Five years ago, Luke Borke's Elhnokgical Jownal, and the wricer's Otia AEyppisch, pointed out seteral snologites between some names of twenty-five Berber tribes merlioned by Eba Kheledoon, and yarions other ethnic oognomint preterted by the writer of Xth Genesid. The former are certainly reliable, inagmuch as Bton Khaiedoon was Berber bimeelf and the historian of his nation: Who contesta their common descent from anch legondary ionrtes as Abraham, Golisth, Amelek, Afrikia, Mimyar, and other fabulons origina; claiming, bowover, that the Berbers "deacend from Kealoumx (Cas)uhim), son of Mitacily, son of Hay." So, aleo, through Mohammedan barmooixing, we meet, in the "Roaif t Sufa," with a similar exemple of pious genet Iogical frauds - "God bestowed on Ham nine wone: Bind, Siad, Zenj, Nomba, Kenach, Kush, Kopt, Berber, and Habesh!"

It will be seen, further on, that the Caslonim undoubtedly dwelt in Berbary when Xth Geasis was writted, as their deeoandanta do "anto thin day;" bat it need ecarely be insiated apon, with the reader of these pages, that Ebn Kheledoon, an Arabicired Berber, no jese than a most learoed and conseientious Muslim, naturally felt anviout to connect his own pedigree with that of the genesiseal Patriarobs, io hirn rendered orthodoz and respectable through the Eordn: and the fact that, overlooking the Hebrew plural terminations, he deemed Kracoupism (the Shillordif) to be a man, son of Mitaraim (the Egyptiana I), snother individual, indiestes his litersry eourees; whie it serves to illustrate what we have maintained elaewhere, vix. : that the Berbers (their own indigeoous tredition being unrecorded) eppropristad inatand the language and religious idens of their civilizers, the Arabs; who cortainly, when the Kordn wed corr posed, had never taken Barber origins into consideration.

Nepertheless, thin sentimental bias of Ebn Khaledoon does not toach the ereheological fact gained from his pages that, in hia time, the LAOUTE are recorded, an one of tweoty-five Berber tribes then inhahiting Barbary.
"Six hundred lineages of Berbers" - the enumeration of Marmol and of Len $\Delta$ tricsaus - resolved themselves, sbout the fifteanth centary of oar orm, inlo five maia stems; who, already imbued with longinga after Islamite roppeorabilities, said that their progenitors were Sahæans of Yemen: at the same time Leo edde the noteworthy remark, "subfurei eolorio ant." The bame quintuple division reappesse in the " quidquegentani Barbari" of Roman writers of the fourth century; which is importents becanse in estahlishea sa identleal quinary repsrtition of Bethers prior to Mohambeden impreaainus; and, although it doet not contradict, thlu feot ronders it less likely that pagens or
*mi-Christians ahouid have leaned towards an Arsbian origin, before religious motivea for such honorary sttribation existed in Betber minds. To trace whence Barbari or Berbers, from about 1400 years ago, through the "Misulani Sabarbares, Massylii" of Pliny; the Sabouboures of Ptolemy: and possibly, in some inslances, the Babiaboi of Strabo, Diodorus, and Herodotun: to reaolve the Zilka, Zitica, Zelis, Sainnsi, Zilacta, Margli, Tilokes, into the Masomisoucs = AMAZIG - Libyars, of the Mascosyli into AMAZIG-Shillowh; and then to dedace the Amaxighte of the present day from the Majocs of Herodotas, e. c. $480:$ - these are task mhich, foDowing chiefly Catiglione, Aave boen alramdy executed.

History, phitology, and analogy anlte, therefors, in obleblinhing that the T-Amasirghs, or real Berbers, distinct in that day from Astatios or Kegroes, existed, sbort the fifth centary घ. 0., in their own lend of Berberia, now oalled Barbary. With the oxception of their haring ambraced Inlam; exchanged the bow, for which they were selebrated long before that ege, for the mughet; added the eanel to the horpe; and appropristed Arabic words to make op for defleiancies in their native rocabulary; the Berbers of Mt. Atles are precisely the snme people now that they were twenty-five oestaries ago; dwelling in the same epota, apesking the same tongres, and called by the same names, as wo shall see presenty.

We are not propared to acoapt an opinion prononnoed by a man of seience eminently qualitied to judge ; Which, coopled with Forster's atteatetion [supra, p. 488] of the judelibility of calor at it criterion of type, when We reall how all Berbers "eubfusci coloris sumt," ought to poseese oufficient Wejghti.

There is but one acribibly indigonous race in Barbary, sayt Bodichon; fis., the GAE-TULLAN:-"Ainsi, Athantes, Atarantes, Lotophsgee, Occidentamx, Troglodytes, Maurusiens, Maures, Pharusiens, Geramentea, Angeliens, Paylles, Libyens, même Censriens, et touto cette moltitude de peoplea de quil lee anciens donnent l'afrique sepcentrionale poar patrie, as confondent en une senle et même race, le GÉTULIENNE." The Arsbe, foreigners in Berbary, oall the present descendants of this race "Berbere and Kabyles." Indeed, as tillers of the soil, i e., as homen animals brought into direct oencect with the earth of Barhary (rank with exbalations so mortiferous, oven now, to Enropeans), no type of humanity coald have outlived, not to esy fouriehed amid, the climatio and geological conditions of Atalantio Africe, but a fem farlonge from the sam-heach, axcept the Gatulich Por proofs, read Dr. Boudin's Letires orr CAlgarie.

Cut off from escape on the west by the ocesn; on the north by the Mediterrenean; on the south by the Gahers (ance eads alac), and, antil the Christion ors, by the abgence of carrest ; and on the east by the MTBRIM; these "quinquegenteni Berberi" have survived the extinction of the elephant, together with the deprescions of temperature consequent upan the deatracion of thelr primeval foresta: and, repagatant through natural comptitation to my alien institations bat those of the Kordn (construed after their own liberal fachlon), they remain now, what they were at their ankpown oft of eration, Gatulian, and nothing else.

Inquire of bintory.
Phœniais planted her mendards at the Carthaginian ports she occupied: Greece built ber atrongholds on the littoral of the Cyrensios: Rome, prostrating all, sent ber eagles further finto Africe than any Earopeans: Porris inscribed her westernmost tablet at Tripoli : Byasatinm, witer Belisarius's triampb, has been obliterated, even in name: Vandala, masteored in detail, or extingaished by climato more marderous to white racea than Numidian arrows, have panished, physiologically, like other haterogeneous foreiguera on the sea-board: Ottomen and Frank invadera still surround their temporary hevens mith bastions strongest towards the mainland; and French prowese over the Berber race is confined to the latter's preparations for the next raxia. The Saracene sone, themselves " gentes abbfusci coloris;" apostea of a genial polygamous religion;
apeaking dialecta of a tongue long familiar to Berberic ears through anterior Panic intercourse: - the Arabs, I repest, cognste with the Berbers in nomadic reatlessaness and social habits, have ridden over the Gasulans, through them, and aronad them: but whilat from the fret hour, a. D. 644, that the lances of Isilm pevetrated indo Berberic, the wise policy of its Arabien votaries associnted the native Berbers in spoils and benefits mutanlly agreeable; the Arab himself, after twelve centuries of Barbaresque sojourn, has become far more Berberized as a MOGHRABEE than the Berbert hore been Arabicized. And (asks the reader) What is the " ultima ratio" of all these saccesaive infuences mpon mankind's Atlantic type 7

Merely tbis: - that wherever the Gatulian hae not (he has in Morocco) revindicated his nationnl suptemacy, he rather tolerates Arsb encampments in the domains of his birth-right, than hoapitably weloomes Arahian presence by practical fasion. "Mohammed" is their moral bond of Berbereaque unity - their commen battle-cry. Implaceble detestation of Turks and Franchmen is the only chord of sympathy between $\hat{A} b d-e l-K a d e r ~(a l a v e ~ o f ~ t h e ~ P u i s e a n t), ~ t h e ~ h e r o i c ~ a n d ~ b e t r o g e d ~ S h e m i t e, ~ a n d ~ t h a t ~ m a l e t t o-~$ cross hetween Arabico-Berbers and Negresges, exhibited in a beartly individuality called "the Emperor of Horocco." Hatred to aliens - $\mathbf{t}$ angbody but one of themselves, \& Berber - is still the banner of Gasulian instincte.

If, then, Getulian populations cannot have originated through imegiasy importi-- tions of Negroce from the interior of Africa, wor from imagiasry colonixntions of whits races from Europe, whence ceme they?

History being impartially silent, oar alternative lies between Arabian immigrations as one possibility, and the autocthonous creation of Beriera for Barbary as the other. My own inquiriea lend no support to the scientific probsbilitios of the former contiogency. The lstter it is not my province to diseass. - G. R. G.]
Viesing, therefore, Gaculian families as "une race apart," we proceed to ascertain their relation to the chart of Xth Genesis.
Their present name is Berbers in Mancitanis, and Shillouls towards the Cyremaica
In Ebn Khaledoon's "Higtory of the Berbers," we bave already noticed that ane tribe of this race wan called LaOUTE, or Laotien. Cuting off the Arabic pleral Lerminstion, there remaine LAOUT; which, reduced to its simplest expression, vowela being vague, is LUT, or LUD; an appellacive, as we have shown, traceable in Barbaresque nomenciatures at all times, back to where history is lost

In Xth Genesis, the eldest-horn of the affistions of the MTsRim (or Egyptians), and who, therefore, in the ides of the writer, isaued first and went furthest from the suppoed parental bire, are the LODIM. Removing the Hebrem plaral suffix IM, there remains LUD. Al commentators anite in deeming Barbary the geographieal ephere of these emigretions.

To have shown that the Laouteh, LUDs, of Ebn Khaledoon, ean be no others then the Ludim, LUDs, of Xth Genesis, is likewise to prove that Gatulian families are included in that ancient system of geography, and that the LUDIM probsbly eccupied Hauriania. A conclusion which oar inquiries into the babitals of their frateral uffliations will fortify. In the meanwhile, we rejoice to learn from Gräberg de Hemso that the Ludaya tribe atill furnishes the Bultan'a hody-guard in Morocco, and that their river Tagases is get called Laud and Thaluda; at the same time that it is astisfactory to find such seholarship as Quatremère's sustaining how, "Dang les Loudea do Moise, je reconnais le grande astion des Lewata, la plus prisaante des tribus de race Berbete;" and thas ratifying our views upon the LUDim of Xth Geneeis. ${ }^{6}$,
28. D'ע - AáNMIM - ' AnAmim.'

Of conrse, this is a tribe which (plural termination IM cat off) was called AaNM.
Fiewed as Aanams the analogies falter, onless we adopt Bochart's speculative ides, that the Semitic word for wheq, GNM, he the root of this nome. The Nom-idiens,

Nomades, bave aiso furnished compnrisons; which we dispute not, because it is in Barbary that commentators locate the people called ANMm.
-Referring the reader to the "canges of verbal obscurity" in Oriental namea, ably set forth by Forstor and De Saulcy, there are few literal permulations more frequent than those of M and N : and bence it bas been long remarked, that ANM is but an anagrammatic form of AMN. Under such viem, the AMN-im become at once Amonians; and, from the ancient worahippers of the Egeptian deity AMN-Kncph, or NUM, st the "Oceis of Ammon" (now Seewah); through the Nasamonitie, Nasamones : to the Amonians, or the Garamantes, whether on the river Cinyphus near Tripoli, or on the $G \dot{\mathrm{I}}$; the transition in more rapid than the resuits may appear precise.
Castiglione gives solid reasons why the Haca-Ammonit or Lfaca-Amnii, should reter to Amazirgh-Ammonisas; which term he supposes became in Greek mouths Mfsammones, and thence Nas-ammones. Honce, the ANMm would naturally take their places among Berber tribes next to the LUDs, their kinsfolk.
The Nasamones of Herodotas and of later writers, read by Dirch Nahsu-Amonians (Negro-Amoniang!), were a very roting pradatory race; who carried their name ail orer Barhary: bat, withont insisting apon any one family in whone name AMN is a component, it is for objectors, after perusing what follows, to ahow that the Barbaresque Anamim of Xth Gedesis, cannot be represented by some offishoot of the GoetuLian atem yet atretching between the Sabara and the Mediterrasean.
For ourselves, while descrying the Anamim in the Berber trihe of "Enine," cninlogred by Ehn Khaledoon, we suggest that Â̂NM may underlie both the words "Nesnmones" and "Numidians;" and this for a reeson that no Orientalist acqusinted with hieroglyphical permutations will dieregard. Bunsen, following Ewald, proposed to read the name OUB, Chub [which nation Ezekiel (xyx. 5) associatee with "KOSh, and Phut (Barbsry) and $L u h_{m}$ (the $L_{\text {udayas, as shown sbove, No. 27) and all the mingled }}$ people,"] as if such name had been written aNUB; and thence to apply it to Nubia - a country, we have proved, altogether unmentioned by Hebrew writers. Volney bad perceived GOB ia the Barbaresque Cobbi of Pcolemy, and we adopt hie view as by far more natura, according to the context of Ezekiel. Nevertheless, Bonsen's very just remerk of the frequent suppression of the s before o or $\mathbf{x}$, in the trabafer of Hemilie into Semitio proper damea (c. gr., Surafone, Shishak), allowa us to behold the aNuM of A®NM-IM in the GNUM-diant of clesesical history. If, however, with Bochart, we
 wise NisI-ANuM-im; We observe that Nas means "people" in Semitish rongues, and thereby auch compound name becomes, in Engligh, "People of NUMidia;" or else, "People of (the oasis of) AMoN :" in either case, the Anamin of Xth Qenasie.
But Bochart declared that these tribes wero "Solinus's Amantes, and Pliny's Ifammanientes, peoples beyond the Greater Syrtis ;" and, reminding us that 7, Gar, meads "to inhabit" he disolosers at once the famed "Garamantes neur to the fouataing of the river Cyniphua." Now, let us add that this river is still called the Gir, or Gar, hy living descendants of these very Amantes, who once wore the Berber AAMaN-IM alluded to by the ancient Hebrem geographer. 612

## 29. ה' LHBM- - 'Lehabim.'

The firt orthodor English work we chanced to open, in quest of etymological meanings, has, "Lreabin, flames; or, which are inflamed; or, the pointe of a sword"" and just below, "Libyt, in Hehrev Lubim, the heart of the sea; or, a nation that has a heart!"
Let us seek elsewhere. Detaching the plural IM, through whicb the writer of Xth Genesis indicates that he meana a tribe, the singular number of whom is LHB, we realise instantaneously bow igooract of Hebrem were the forty-seven translators of King James's version. This may be at once seen by their writing "Mizraim begat Ludla, and Anamim," \&o., instead of "the Lade and the Anam" and so forth. Had
they even suspected that IM was siready a plaral rermination, they would not have doubled it by printing "Cberabime" for Cherubt, or "Beraphima" for Seraph! What ahould we think of the Freneth seholarahip of a person who wrole tablances?
That these people wers Lityann no commentator now doabth, slthough Bochert disseots; and that in LHB, the soft aspirste he, H, may be equivalent to sach vowels af $a, e, i, o$, , no palmograpbor will contest : nor that the LDBlan of 2 Chrom. (xii. 3 : x7i. 8), of Nahum (iii. 9), and of Danial (xx. 43), are the eame as the LFBm; eopocially in Nahom's text, where a conjonction conples thern io PhUT; tready ehown to have been a generic appellative for the whole of Barbary.

Anfin of the Howerio Greeke posessed a wider territorial extension then the Libya of the Romana; the former signifying lierbery in genersl; the latter the coast from Egypt to the Greater Ayrtis: hence we may iafer that the more procise informetion of Roman geogrephars rested upon better acquaintance with the loolitive whero the LHBs were domiciled. T-LIBI is the bomonyme in Coptio MS8; bat perimpe in atenso restricted to tribes on the immediate west of the Nile's slluvium; which also suggents the easternmost limit of Libyan encampments.

Amoog the Berber tribes enumerated by Ebn Khaledoon coour the LeFFaTaH; which word in Oriontal palmography is the same an LeHaB-atah; and its analogies with
 atock, with saffefent correapondences to resolve all theae oppelletives into the Arnadat, As Bavdan, of Procoping, about the aixth centory b. o.; not forgetting the Languantan of Corippus.

Any one investigating such subjects, without preconceptions, will recogaise in the LHBa of Xth Genesis a momadio population of Gathition reco, and of Barbarempue habitata. 973

## 30. -

Before commenaing annlyses that arise throngh net reacheitations of Egyphology, it is desirable to remind the remder of a principle that governe our philologien inguiries into 10th Generis. Kxtremely simple, it is still, ever where known, more or lese disregarded by rabbisical writers.

The genesisonl writer's claspifloation of nations is tripartise, ander the titular headinge "SAEM, Hay, and Japhetr;" and his liste, therefore, wnbenoe Somitic, Hamitic, and Japethic families; correaponding [supra, pp. 85, 86] to the gallow, the red, and the white colors given by Egyptisn ethnographers to auch varietien of man an were known to them about the sixcoenth centary $\mathrm{B} . \mathrm{c}$. : but the Hebrew map exelodes the Negro; which race, the fourth in the quadripartite ethnograpby of Thebes, is, on the monuments, printed black.

Arabian langanges are neoesarily reprosented in the proper pamet of mationa belonging to the Semitic atook; the Egyptian "sacred tongue" is the moot ancient and reliable nucleas for those of the Hamitic; while those of the Japelhic, almont a distisct world, mast belong either to the Indo-Germanic or to the Shythic clese of homap idioms.

To suppose that the "epeech of Eanaun" (mignamed Fabrov) can answer the parpose of an "open Sesasme" to the significations of all propari names in Xth Genetia, Which the writer himself has carefully segregated from each other into threa graupa of tongues, spoken by thret groups of humanity (in his day as in ours, from oach other entirely distinct), is one of those aberrations that no educated peraton of our geparation would bo likely to boast of if be reffected that, in cobsidering Halreve as a fitting hey to eny thing more than to one, the Sermitic, of these three linguistic portale, be would be af great a do!t as if he sugtained that Engioh might be contained in a Chinese radieal or in a Mandingo root.

No philologist at the present day, when be boholde in Xth Genesis the proper
name NPhTtKhIM, woald seek for ita explanation in a Hebrew vocabulary; becense a proper name belonging to the Hamitic group of langages ought first to be oxamined within the ephere of its own positive domicilistions; and it is only when these are wenting, or when comparative philology is the inveatigator's object, that speculative analogies of anch an antique cognomen may be hanted for in the modern Arabio Qamod, or other Shemitish lexiton.

In Coptic days, weodrding to aathentle M8S., the wertern akirte of Lower Egypt, on the sonth of Lake Mareotls, Barea, Mariouf, were called NIPAIAT; wheder, deducting the ploral prefix, NI, we obtain FAIAT as the Coptic vocnlization of the bieroglyphical root P-T; or PheT, meaning a bow; 4 we explained under the head PhUT. The oceupants of these localitios, slong the desert ridges from Marea to Priminhor (now Damanhoor) spoke a Berber dielech, and not pare Egyptian; in this, resembling the inhabitants of the nearest onsis, that of Ammon, or Seewah, who, slready in the time of Herodotus, 430 日. ©., were a mized "colony of Egyptians and Euhiopians," i. e., rus-burred-faces; "eubfasei coloris," like all Berber derivations. We have Bettled that the preceding affiliations of the MTARim occopied parts of Burbary, and belonged to bramchee of the great Gafalion trank. We shatl eee that others of the Hamitio brethren did so likemise. What, then, more natoral than to find, on the weatern flank of MTsR (Egypt) herself, the NIPHATAT nomads of that rece, speaking their national tongue, the Berber?

An usall, Champollion was the frat to carry back the NIPHAIAT of Coptic Christian literature to the ancient Pharaonis monumenta; confirmed by Rosellini, Peyron, \&e., and since universally acoepted by Egyptologists as desigastions of Libya and Libyans. Bat, vithoat doubting in the lenst the Barbaresque application of the word, whather in ite Coptio or in its hieroglyphical form, the original name Ph-T-kah sometimes ocears in the singular namber, "Dow-country," or plaral "Nine-bow-country." Now, the same distinction holds in Xth Genesis, wbere PhUT refers to Barbary es a whole; and NPhTKKhIM, in which the same radical PhT is preserved, to tribes of the same Hamitic stock. May we not assign "Bow-coantry" to Putr, and "Nine-bow-country" to the others" With this reserfation, Hengstenberg is right in seising upon Niphaiat as the probable representative of "Naphtachim." It is easy to prove this identity. The Mesorete punctaation, through which Naphtoukhm is its present phonetism, commands no reverence; being merely the rabbinical intonation, in the eixth and lecer centaries after Christ, of a forrign proper name antedating them, and the writer of Xth Genesis himself, by nnnumbered ages. All that science can now eccept are the six letters - NPhT/KhIM.

The hieroglyphical root is $\mathrm{Ph}-\mathrm{T}$; the later Copts added the medial rowels, and it became PhaisT : to make it an Egyptian plaral, the NI, or N, was prefixed, and NIPhsisT, thas formed, is aimply the-PhaiaT-s - the proper name, as above shown, of a Berber tribe on the weatera frontier of Lower Egypt. Ilut, Chempollion's Grammaire tells us bow, "in the graphical syatem, as in the Egyptian spoken Longue, the plaral dumber (of nouns) was expressed by the desinencet or terminations" - 0 D , or J : a that, Egyptologically, the name muat have beed orthographed NI-PhaisTC. Such Wes the word that presented itself to the researches of the sompiler of Xth Gedesis, When he classified the MTaRito "affliations of KhaM, nfter their families, ofter their tongues, ju their countries, in their netions" (Gen. x. 20). We have only to take the square-kettert which the later Jews substituted for his own (onknown) calligraphy, and, inserting the omitted vowels, write them below the older Egyptian form ...thus, Ni-PhaiaTD, $\quad$ to perceive that this diligent writer (not being conversant, Ni-Phaiat(-nKh-IM, $\}$ unhappily, with Nilotie syntaxis) bas suffired the Hebrew plaral, IM, to a proper name, NIPHAIATU, that wea already in its indigenous plural form when it reached the chorographic bareau of Jaruselem or Babyion Hence the fillowing conclusions:--

Ist. That Esyption tongoes and writiogs are older then Hebraical transformation of the name Nipkaiatu.

2d. That the people Niphaiatu eristed before Xth Genesis was writlen.
8d. That the Hebrev chorographer must have been unacquainted with the firgt eो ments of Hamitic tongues; else be conid not have appeaded bis own Senitic plaral, I to o foreign name that was already pluratized by ita national prefin NI, and suffir C a blonder to be paralleled in Euglith hy the valger Cockneyin of "post-'see " for part

4th. That, as a consequence, the principle laid down at the begioning of thin aecios. of exsmining Hamitic, Shemitioh, and Indo-Garmanic dames by their respective lat guagea, is both rational and usoful.

Bat, the less "inapiration" that in required for the construction of an ethis chart, the more sdmirable becomes the haman skill and toowledge which, its astquity considered, compiled such an excelleat synopsis of the nations existing within the geogrephical horison of its day.

The long-ahesed families of the NiPhaisTt (l-kh-(In) have been earthed, at lest, where Bochart indicated his "Napbtuh由i"; vis., aroond Mareotic prorinces on the confine of the MTsR1M, or Egyptians. They spoke Berber disleels, like the rest of their Barbaresque bratbren; and may be safely assumed as ranking among the eastornmos: rapresentstives of the great Oatulian reoe.

Nor are their vestiges wacting aitber in Arabic or in clasaical geographien The twelfth tribe eatelogued by Ebn Khaledion it that of the NoPhUSeE. T and $S$ being paleographiaslly identical, here is the Arabicized form of the same word, precisely : with its ploral termination eH, in lien of IN. The game nume resppears in the rixth century of our era, and therefore before Arab invasions, in the Nefuec, or Navesi; of the Lsin poet Corippus. And, to back assertions with suthority, one of the greatest liviag Orientalists of Prance, Quatramère, while commentiog an this passige of Xh Qenesis, records: " Len Naftouhit repondent, je crois, a une des tribas Berberes, celle des Nafzah, ou celle des Nafosuah" ${ }^{2}$.

## 81. פתרסים - PTtRSIM - ' Pathrustm.'

Again atands hefore us an Hamitic word, and again we apply to it our rules of dissection; after lopping sway the excreacent Hebrew IM, and thereby restoring this name to its native aimplicity - PTtRS.

Orthodox lexicography reveals to an inquirer how the Pataros mentioned by Eetkiel (xijx. 14; xyx. 14) means a 'moutbful of dew,' or 'persuasion,' or 'dilatation of ruin'!

The wonted acuteness of Bochart, two centuries age, peroeived that Pathrof, a diatrict in the Thebsid, would answer very well to the exigends of PTiRS; and the Coptic researches of Champollion and Peyron established that the western side of the Nie, at Thebes, bore the names of Patourcr (Phaturitea), Tathyrites, Palhurk, and Phatrows: prohably orthogropbed better by Perthey in Papithourts, because the name of Theder, "P-API," an the "Tho-ReeS," south-isad, is preserved in it. Bot with sll deferemee, and without absolutely denying that the compiler of Xth Genesis may have mennt Pathros in the Thebaid as the aite of his PTiRSim, we csanot assent to euch inference, for the following reearon:-
"Dato il ceso, e non concesso," that Moses, in the fourteenth century m. c., Whe the compiler of this chart - and orthodosy itelf claims no date more ancient - the MTs Rum in that age, the XIXth dynusty, hadrbeen apread over the Nile's alluvium, for above 2000 yeare, "from Afigdol to the Tower of Syene," and far more australiy soon after the XIIth dynasty. Consequently, they had left to any people but themselres nothing but the dereria on either fisok of the alluvials to roam along. Pathros whs merely a suburhan district in the "nome" of Thebes, then at the acme of her glory;
so that to construe the general meaning of Xth Genesis into such a paraphrase as, "out of the MTsRim went forth a colony and founded Pathror, whence sbont the seventieth fraction of all hamanity known to the Jews was called PTiRs7m," would be like baging (if for Theben we read London, and French for Hebrew) that "out of the Englidhonen went forth a colony and built Faterloo bridge, whence arose the grand nstion called "Vaterloos.'" Besides, Wilkinson bes critically noted, that Pathyris, or Tackyri, wee so eslled after the goddese Athyr; and meant "the belonging to ATHYR," 的 the protectrees of the western side of Thebes.

- The obstacles to anch interpretation increase just in the ratio that the compilation of Genesis Xth is hrought down to emore historical epoch. It is evident from the contert of the whole paragraph on the "affiliations of the MTsRm," no less than from the ultra-Egyptian areas on which each one of these affiliations is naturally fixed, that auch joformstion as the Hebrew writer posseased on the PTtRSIm had led him to understand this tribe as extraneous to Egypt; and he did not locste their babitata in Egypt iteelf, becanse this country wes already appropriated by the NTsRim . Quatremere, and before bim Golius, had perceived the phyaical impediments to the location of the PTtRSim in upper Egypt: - "Les Phatrousis ont éte, assez ordinairement, pris pour les habilante de la Thébaíde; mais cette conjecture ne me paraît pas admisaible. En effet, Misraim ayant etéle pare de l'Égypte inférienre se troupgient naturellement range parmi cee descendants, sans qu'il ñt necessaire d'indiquer d'une manière spécalale les habitants de telle ou telle partie de cette contrée. Si je ne me trompe, les Phatrousis du récit de Moise nous representent les Pharwiens, qui oceupaient nee partie de ce qu'on nomme ayjourd'bui l'Empire de Maroc."

This identification tallies with our views exsolly, In classical geographies the Pharusin lie about Mauritnain, east of the Autoboles; and tbese lant are identifed with the Berber tribes of the AIT-o-LOT, "sons of Lad;" whom we have already proved to have been the genesiacal LUDtm. A Persian origin has been ascrihed to tbe Pharuses since the time of Sallust; but probsbly upos no better authority than accidenta! resemblnace of the word Phats, coupled with traditions of Achemeniden invasions of the Cyrenaice; and its claims have been well contented by Lacroix. To behold the PTtSRim of Xth Genesis in the Pharksians of Barhary is ohnozious to no difficulties, heyond the inconvenient presence of the letter $T t$, "tar" in the Hebrew transcription of the namo; and this letter mag be the old Hamitic feminine article; which clinge to Berber words as tepacionaly es "atl" does to proper hames in Mexican languages. However, it bas heen shown sbove thet these people must bave resided beyond Egyplian territorial limits $;$ and as one of many brethren in geneaiacal pereonifications, the major part of whom are unquesionably Barbaresques, the PTiRSim muat lie to the west of Egypt also; and every rebsonable requirement seems fulfilled in the Pharusií.
[Albeit, let me revert to a former etymology in "Otin Egeptiaca;" which, while it does not conflict with a Pharusian derivation, exemplifies bow a compound Hamitie name has become Hebraicized: for, in Berber nomenciature, PhaARusiam, HaRuriant, NaURi, and their endless Gmotulinn homonymen, bil inflexions preceding the RA, or AUR, ore but demonstrative aggregations to that ompific monosyllable; whose birtbplace, according to D'Avezac, might lie among the "Divine AURita," and whose tomb is not yet constructed in HARocea!

The redaction I formerly proposed of PTiRSim was this:-Pi is the universal Hamitic mascnlice article the; Tt may be Tho or To, Coptic and bieroglyphic for vorld; RS, the Coptic RiS and bieroglyphic Ris, meaning the south; which connectedly read PiTtoRiS, the-word-south, or "the southern world."

This is a desigation appropriate enough to austral popalations; and if the PiTtoRIS-tm of Xth Geneais be lineal "affiations of the MTsRim," their name must be resolvahle into Egyptian roots. In any case, the Hebret writer added bis plural IM to a word nlready formed in Northern Africa centuries before bis day. G. B. G.]

Whilst submitting the above dubious solation as preforable to any dependent apon - apurious $M$ (asora, we novertheless consider the Pharwai of adeient Barbery to be the troc PTtRS9s of Xth Gonesia: confirming such opinion by two prophetic passagea; 1st - "They of Pharet (not Persians, but Pharcri) and of Led and of Phat Tere in thint army," sege Exctiod (xxii. 10) to the Tyrian mesters of Barbery: 2diy, Farial (ii. 11) proves that be regarded Pathras to be a land entirely distinct from Regpt, Fhen he wrote - "from Anojrin, and from Egypt, and fram PhTraRig, and froan Cash," se. ${ }^{\text {BL }}$

## 32. aים - KSLKhTM - 'Caslehim.'

The ground hers becomes less firm than that wherean we travelled in quest of the proeding tribes; not merely owing to the briers plented in our wey by commentatorns bat also from the embiguity of the tart of Xth Gonesis itself.
Let os commenee by inquiring into the latler, King James's version, verse 14, has: "And Cualuhim, (oat of whom oame Philintim,) and Caphtorim"; the plain Englith of which is, that a man ealled Philistim issaed from another called Carluhim. The commen and parentheses being the conjectoral panctuation and interpolation of King Jemes's trandators, we restore the tert to its primitive simplicity, as closely as our elien lengage permita, thas: "And (he) KSLKhIM from whom iscoed (the) PhLSTtIM and (tho) KPKTIRIM." Of thin the plain English is, that two familien, the Phr isfm and the Kaphtorm, issued from the family of the Kashenhm.

In paychological speculations, it may not he of the alightent consequence whether oither of thes families did, or both of them did not. Oor English Bible, es Taylor, the erudita transletor of Calmet, declares, after freely acknowledging its manifold misconotructions, "soffoes for all parposes of picty." But in matters of archeologion, and essentially of anthropographioal science, the English Bible is leas safe than any standerd translation of Homer, Harodus, Cicero, or Casar; as our "Introduction to Xth Genesis" ahundantly shown

The question whether the Carkukin were the progenitors of one or both families has amply oecapied theological pene, rabbinical as well as Cbristian; but we may mention that Rosenmíller, Cshan, and Qlaire, confinn our reading.

Let us endeavor to ascertain the affinities of the father-stock - the KSLKAML Ercepting the Ahbe Migoot, followery of the few errors rather than of the many traths of Bochart, hed disoovered, until latterly, nothing more apposite than thet semihistorical Egyptian colony of Colehians, planted by one of the Seasoride in a seelian of Mingrelis whence Jaeon hrought the golden fleece. Withont doubling the mythicoastronomical beais of the lettar event, Te summarily dismins the Coleniant, as a colony of Egyph for the very reason given by Herodotus in proof of their extraction: ril, that the former people wore "black in complexion, and woolly-heired," whicb ereryhody knowa the MTsRIM, or Egyptians, were nol

Now, the "Caucssian" Egyptiant being impossible procrestors for Negro Colchians, the former's "ohildren," according to $\bar{X}$ th Genesia, cannot bave been " woolly-haired blacks" either; and, inemmoh as the K8LKhIM were "sons of the MTeRim," they cannot have been the Negroes of Colchis. So we are compelied to look eleewhere.
 and Pathrumm - hsring already found comfortable homes among Gmonlian races in Barbary, it would seem unnatural if the gixth had not left some mementoes of coeral rebidence in the same regions, between the Sabara and the Mediterranean. Indeed, our Berber historiographer, Ebn Khaledoon, hes told os [supra] that his nacion "descends from Kesloudjim," whith name is but the Arabicired vocalizstion of K8LKh-im. He, therefore, reputed the latter to be a Barbaresque family; and, in consequence, we proceed to test their appellative by an LIamitic touchstone.

Ite protogramme $K$ is a dificulty, but one of two explanolions will remove it. The
first is philologiesl: vin, that all Orientalista know hom such articulations as Khs, KS $h, \mathrm{KS}$, glide into oue nnother acoordingly as they are enunciated by different tribes. Thus, in the very name before us, that which the native Berbera and Arsbs prononnce Shillowh, an exotic Spaniard, Mermol, writea Xilohes. The writer of Xth Genesis, tranacrihing a foreign name in the unknown Hehrew alphabet he need, from six to blank centeries before the present rywa-ietter character (in which we now have his text) Was invanted, -this Hebrew writer, we now repast, when he placed a sameq, 8 , immediately aflar the taf, K, probsbly meant the two letters to represent a Berber intonation of KS. In such oses, intarpolating rowels, we divide the word into $\mathrm{K} 8 \lambda \mathrm{iLouKh} h \mathrm{~m}$, and writing benesth it $\qquad$ $8 h i L_{o o H}-e^{2}$, we instantly reagalse the Sumbours, one of the grand duplex divisions of Gatulian families; the other being the Berbers [ubi mpra]. In the Bgyptian "sacred tongue" end character, anch bieroglyphical sigus as the "eieve," or the "garden," equally represent KS sod SH; and if, according to orthodox interpretation, an individanl yclept Castuhim was reslly son of a men celled MTsRaIM, the father's vernacalar and writing muat have regulated the child's laptismel nomen.

The mecond explanation is arclaeological; and althongh lese bkely, nay soperfuous after the preceding remarks, it is auhmitted so snother proof that the speech of the old MTsRIM, not having been the "lingas sancts" of Shemite families, serves to effect that which modern Hebrew never can eapire to: viz., a rational solution of the Hamficic word KBLKh.
"Every name determined by the sign kat . . . is the proper name of a prodinca or epuntry more or less extended." This is Champollion's law of bieroglyphical writing; and so familiar to anybody who has read an Egyptological work, that one feels aehamed to pile ap authortien.

If an ancient hierogrammateus had written the name of a people called Shillouh, he would have spelt it ShLUKh-rAB; that is, SHiLLece-country; the determinative for country being inseparable from a geographical term. It is, then, pessible that, on exportation to Jeruanlem or Babylon where Xth Generis was edited, the determinative kah may bave become transposed from the and to the beginoing of the word $\mathrm{S} h \mathrm{LK} h$, in order to suit the Chaldaic cuneiforss system of writing; in which "determinatives" always preede the proper name; just as, in Englinh, we ubually say country of the Suillouts in lieu of shilloci-country. We have only now to suppose that a Chaddaan original, written in coneiform, was transcribed by $n$ Hebrew emanuensis into the old alphabet of the Jews; and the copies of this transcription recast, ahout two or three bundred years a. c., into the modern sgrare-letter character - all things possible, and the latter event certain - to perceive that the initial $K$ may be the relic of the sigu "ksh," now incorporated into a name that (aupplying the vowele) we might read Kah-ShiLoKh, land of the Sallioute. To which name, inasmuch as the Hebrew writer knew that it referred to a people and not to a man, be added the plaral determinative IM, and thas has handed down to us a true sigaificstion of Kasluhim, in "conntry of the Sailcodie." Still, we prefer the former explanation, beoause it it the simpleat; and with these dem lights coctinue the inquiry.

The lasmed Swede, so long Consul-Genersl for his own and the Sardinian government at Tangiera, follows Eba Khaledoon with bie personal corroborative experience, when bo deems the Casluhim of Xth Oenesis to be mo others than the Shillouhs; already domiciled in Barbary previonsly to the intrusion of the firat Phenician colonists: indeed, be favors the opinion that they are autocthonea. The conclusions, drawn by this eminent acholar from actual Marocchine obserpation, derive support from another quarter; nor will Orientalists queation the vast profundity of Quatremere.

In his jadicione critique of Hitzig he observes:-"Qaant aux Kaslouhiu, j'y reconnaia les Schelouh qui, de nos joars encore, composent ine grande division de la nombreuse nation dont les membrés sont dénigoés, d'une manière abanive, par le nom de Berbares;
on conçoit que ces hommes, qui, dads tous les temps, se montrìrent avides de pillage, arnient, de bonne beure, parcouru l'Afrigue pour y excercer lears brigandages. Que, se trourant attiré par l'appât des richesses de l'Egypte, ils nient tenté one ipcursion dans cette contrée, et réussi ì s'en rendre maitres, la chose n'a rien d'improbable. C'est sinsi qu'à des époques plus récentes nous royons les Hazices, qai appartenaient ì la méme race, infester par leurs brigandagea l'Égyte et lea contrées voisineq."

The Shillouhe (sufficiently for the purposes of this esesy) have now been started in Morocco and followed to the confines of Egypl In these wildernesses some of their advanced posts still reside. At the famed oasis of Jupiter Ammon, or Second, the same phepomenon is witnessed at the present day for-which this oasis was remarkabe in the time of Herodotns, vix: the intermixture of Egyptien and Berber tribes. And just as its habitanta then spoke Coptic and "Ethiopian" diniects, so now their apeech is Arabic and Shilha; i. e., the tongue of the Shillowh; into which letter idioms Arabic continues to become the more and more absorbed, is proportion as from oanis to obsis ons journeys westwards; until, litule beyond words impressed with religioas sttributes remains of Arabic in the shoriginal tongue of the Shillouh votary of Lallm.

The KShiLoKh-im of Xth Geuesig resolve themelves, once for all, inco the Smin LOU日B: DNe of the twa main branches of the great Gatulian or Libyan family, race, or perbaps "species," of mankind. They iahabited Barbary when the ethnio chart of Hamitic stocks was compiled. They do bo 日till, in the nineteenth century a. c.bi6
33. פלשלשהי-PhLSTtim - - Prilistim.'

None will dispute that, according to the Text and the rersions, these people proceed from out of the KBhiLou-Kh-im. Ergo, the Philishm were of Berber stock, and mast have migrated from a Gatuling birthplace iato Palegtine: a land which, to this day, conscarates in its anme the remembrance of one of its earliest occupants, the Pailitrines.

Contrary to the general current of opinion, here we encounter, if the ethnic geneBlogies of Xth Glenesis are historical (as we conceive them to be), a migration from Northern Africa to Asia; that is, from West to East If we are to be told by "teologastri," that a man yclept Casluhim, on his way from Mount Ararat wo Moont Allas, was delivered in Palestine of another called Philistim, St. Auguatine will reply for as "credo, quia impossibite." Can it be shown when the "Philistines" were not in Palestine?

The PhLSTt-IM were in Palestine before the second Pylon of the temple of MedetactHaboo was erected at Thebes; else Rameses III. conld not have recorded, in the thir teenth century 1. .. ." "the POLISITE," among his Asiatic vanquished; by all hierologists recognized as the Philistines. They must hape been also settled in Palestine before the advent of the Abrahamida, whose presence the Pbiliatines never quietly tolerated; aud these Philistines were sufficiently powerful, at the time of the Exodes for Israel's eacaping helots to prefer wearisome desert march hy the Sinaic routo, lest, peradventare the latter ghould "see war: " if their valor had tested the rigbt of Fay through "the land of the PhLSTt-im, although that was near." And, in their uncompromising abhorrence of later Hebrew domination (which they successfully resisted until Nabuchadaexzar crushed alike the intruder and themselvea) the
 themalves, they seem never to have comprebended the legality of the charter tbrough which other strangers in the same land claimed its exclusive possesaion : nor did Jewish holders of this supernatural title-deed ever collect physical force adequate to an eviction.

Lenving aside, es Pundit fabrications, those Sonscrit apocryphas through which Wilford traced Paleatine to Pali-stan, "country of the Pali" (Hales's endaraement notwithstanding) ; and by no means preposseased in favor of any Sancrif etymology for descendarts of Hamitic Shillouhs in Palestine or elsewhere, ofter Qustremère's exposure of their impossibility - leaving aside all these Indomanias, we tars to the Abbb Mignot for some reasonable dorivation of PLST.

PLS, or Felesh, in Hebrew measas mud; and the same bisyllable resiles from the Groek $\pi n \lambda \frac{s}{}$, and the Latin Palus. Pelurium, frontier city of Lower Egypt, towards Palegtine (surrounded by marehes at the Pelusiac mouth), derived its foreigu name from its muddy situation; being called SIN, mud, in Ezekiel (xxx. 15, 16), and Teneh, mud, by the present Arabs. These coincidences, coupled with the fuct that the PLETt dwelt between Pelusium and Paleatine, led the ingenious abbe to see, in the miry neighborhoods of their abode, the origin of the name Philistine. On the other hand, Munt draws the name from FLS, to emigrate; being the senso in which the LXX underatood PLSTt-im, when they readered it by adxepuios. Nunk supports this hypothesis by the Ethiopic name of Jewish Abybinians, the Falasias, or emigranta, if their name be Semitic.
These appear to be the most rations! etymologies of many producibie upon the old system, before hieroglyphios were translated; or rather, in Munk's inslance, before rumors of Egyptian tranglations had resched an erudite Conservator of the Royal Library at Paris, even in 1845. Such attempts at solution must be abortive, because, revolving within a viciona and narrow circle of ideas, they all lean opon Hebraical explavations of that which the Hebraicized "language of Kanaan" cannot explain; and for the following reason:-

Upon Egyptinn monumente, at a Late long anterior to the compilation of Xth Genesis (never supposed by us to be Hotaic), the PLST $t$-4m are recorded. Their name is orthographed "POLISitE - men and women." Allowing vowels to be as vague in hieroglyphics as every one knows they are in Hedrev, here, notwithstonding, is a word of thres or four syllables, represented by at least four radical lettera, $\mathrm{P}, \mathrm{L}, \mathrm{S}, \mathrm{T}$; as well in the old Egyptian as in the very modern aquare-ktier calligraphy. To this primitive name the Jews added IM, in order to make their plural, PLSTt-im; the Philist-ines: which word by the Masora is read Phelecheth in the singular; the final letter "Lan" being inherent: that is, the T was already inseparable from the nome thas cbronicled at Thebes some three to more centuries before the consolidation of the Hebraw language iteelf; Laking Solomon's era as the earliest and the Captivity na the latest points for pure Hebrew literature. This historical fact thrust before them, rabbinical scholars must panse, and settle with comparative philology the vital question of bititerada and monosyltables, ere they can make Egyptologista concede that the triliteral FLS, or PLS, is the root, not of a Semitic, but of an Hamitic nomen of this Barharesque nfliation of the KSiLouKh-im; because, in the Hamitic "language of KNadN" (faleely called Hebrew) ; in cognate Derber tongues; and in old Ezgptian; the prefix $\mathrm{P}, \mathrm{Ph}, \mathrm{F}$, no less than ite Berber gradation into $O U, v a, v$, \& E ., is almost invarisbly the masculine article the, put before the noun it determines. We hold, therofore, that the hieroglyphical POLISiTE is "the-OLISiTE," or something similar; and while wo pretend not to know either the meaning or the vowelled phonatism of this noun, the presence of the article P hatchets away sucb fisbulous etymons as PLS. mud, or FLS. stranger. It remning for Derber scholars to discover nominal origins of the P-OLISiTE amoug families of the Gatulian race: our part contents itself with soggesting two indications aupplied by Quatremère: -

1st. Asbsod, Azocus, was one of the five great cities of Philistis. In the time of Neheminh (xiii. 23, 24), after return from Captivity, "the Jelos had married wives of Asbdod," and "their children spake half in the oppech of Arhdod, and could not speak in the Jews' language."

It is true that the Jews, (who, considering the sanctity of their lineage, have amasingly surpassed all nations in rapidity of linguistio matation,) in the days of Nehemiah spove Chaldec; but, it would apperr from the context that Hebreck, i. e. the "speecb of Kanana," was the tongue witicb their "Pasha" (PK $h \mathrm{H}$ ) sought to reinatil into them by means rebement, not to esy singular. "I contended witb them, and cursed them, and smote certain of them $\boldsymbol{m}_{1}$ and placked out their hair!" espa Nehemiah (iiii 26).

Now, Asbdod's inhehitants were PLSTt-im Even as lato as Nehtriah, e. c. 520-40, they bad preserved their own toogee in Paleating. What more natoral, what otherwise possible, than that an "sfiliation of the KSdiLooK $k$ s" should have spoken in some dialect of Berber:

2d. - The KShiLouKhs, in Xth Oenesis, are offshoote of the MTsBitas. Hear Qub-tremère:-"Quant \& ce qui concerne l'influence de la lagge Égyptienne arr celles dea Philistins, pous en trouvons un ventige remarquable. If existait, mar le rivage de le mer Méditerranée, un lien situé à peu de dintance de la ville de gaze, dont il formait le port. Ce lieu était nommó Maĩma. Comme il avitu sequis une grende importance, il fut, sous le règne der empereurs de Constentinople, eépert de l'6́véehé de Gara, et devint un siége épiscopal distinct. Ce nom, dont M. Hitzig echerebé l'étymologia dans la langee Sanscrite, appartient jadubitablement à la lengue do l'Égyple fn retranchant la terminaison grecque, il se compose da mot [Coptio and hieroglyphic] MA lies et de IOM mer, Cette demomination, qui déngge un liew moritine, convient parfailement à un port de mer:" and establishes the Hamitic veracalar of the people Who named it. Who cen theee people bave been but the Phidiotines who built Gara ?

Another conaiderstion. We hsve seen that Gatulian races, deeoendents of Khay, dark, ere "gentes subfusci coloris;" and also that whalf the popalation of the ousia of Ammon, who were not Egyptians, Herodotus gives the affal Greek name of "sun-burned-faces." Emigrents from auch stock into Pelestine were therefore physiologieally ararchy; and such were the PTSTi-im who founded Joppa, bettling along the const from the Suer Isthmus to Mt Carmel. Now, as Raol Rochetto ble skilfally establiahed, early Greek writers placed the ocelo-piscine adventure of "Perseus abd Androweda" at Jopps; "among the Etur-OPians," inhabitanta of that oity of Phrlistic. Had the PLSTtim not been, like all Berbers, of the swarthy reoe, Joppa would not have been included in Athiopia, "land of burnt-faces."

Sufficient has been said on the PLSTt-Im to show that the traditions colleeted in Xth Genesis aecurately ascribe these peoples' origios to Barbery. To reject this dedaction is to deny the validity of Xth Qenesis, backed as it is by every historioal desideratum; without reserring a shedow opon which contrary hypothesea have been erected through imagicary Sanecrit analogies that poseens, anthropologically spesking, about at moch relation to a man of Philistia, as to "the man in the moon."
"If, (saya Quatremère) af I bave attempted to eatablish, the Philiatines were originally of the west of Africa, it is probeble that their idiom, primitively, belonged in that apeech, improperly termed Berber, which is spoten oven to-day in northern dfries, from Egypt to the shores of the Atlantic ocean. One may believe that daring their domination ( 7 ) in Egypt, the Philistinea forgot their 0wn langage to adopt that of thin country, or made of the two idioms a berbarons misture. When they were eatablished in Palentine, seaing themselves aurrounded by nations that spote the Bemitic dialects, and with whom they had daily relntions, either as friends, or an onemies, they mast hare still more acbieved modificationa or corraptions of their lingua propria."

Through the "Aanela of Thotmes III," $\pm$ most scientific paper which reachea us while correoting tbeso pages, the entiquity of the Philistines can now be carried beck to the sirteenth centary e. o. Describing the hieroglyphicsl recorde of that Pheroh, Birch revesla how there took place "nother campaigu against the fortreas of Aranstu, that of Kanana, and the inad of Tunep; Kadesh was once more atacked, end the campaiga extended to Naharaina or Mezopotamia The Tansi, a Philistine tribe who were conquered by Remses III, the Palusata or Philistines, add the Gakbil or GabiImens, also contributed to the rent-rall, and the silver jug the work of the Kevan' refers to the celebrated metnllio works of the Cyprians." Here the reader will recognize various geographical and ethnic names alrendy mentioned in our present disquisiLion. Mr. Birch's aurpassingly-great essay will ahow him many more.

And tbis is all we have to say on "P-OLIBiTE-men and women;" - except that erthodon Hebrew diotionarien propose, by way of explenntion, "Ponistines, these that dwell in tillages !" ${ }^{17}$

## 84. כפפהרים - KPhTtRIM - 'Caphtorim.'

The first horn of a dilemme (previously ntated) displayt iteelf is the absolutely equivocal verse of the ethDic chart iteslf. Our constraction is, that the Caphtorm proceeded (like the Philistines) from out of the KShiLouKhs: bat if e Lanci were to ohject that every Mitsrite name, but that of the parenthetical Philionn, in preceded by the demonstrative ATh, and were to insigt that "W-ATt-KPhTtRIM" manns "and-all-KPhT/Rites," we ahoald yield at once that in the Text, the latier aro ans, not grandsons, of the MTsRIm. In mero hagiogrsphy $\pm$ distinction 80 minule is of no importance; but in esbnography it mates all the difference whether the KPhTtRum inened primarily from the Egyptians, or whether they aro a secondary formation from among the KShiLouKhs of Barbary; Gmitulinns who, like their brethren the Philistiner, abatpdoned thoir hirthplace, and went —... Whither? Nobody knowal

Bochart pointed ant a rosd to Cappadocia, along which English arthodong follows him as aheep do their leeding-rams - chiefly because, having fixed the Negra Cauluhim in Colchis on the Euxine, Protestant divinea consider that his hrother, or his son, "Caphtorim," naturally took lodginge next door. Our restoration of the KShiLonKhe to Barbary abatters that hypothesis, nules Cappadocia, like Colchis, can ahow to aome Halicarnasian a population also "black in complexion, and woolly-haired." Strabo tella us that the Leuod-Syrinns, white-skinded-Syrians, resided there. Michselis thought of Cyprus, wbich Volney rejecta; Calmet, firat Crete, and afterwards Cyprus, which seeond thanght is favored in Ritto's cyclopxedia by "E. M." Crete, bowever, is edoptod hy the Germanio scholarship of "J. B. R."; and, based upon aimilar soorces, hy that of Mank. One regrets to digtarb this happy uniformity; but, let a query or two be propounded - after recalling that, our proceding analy最a baving vindicated Barbary a the region, and Gatulian as the race, of seven "affilintions of the MTsRim," the aighth, our KPhTtRe, whether as offaboots of Shillouhe or of Egyptians, must have heen likewise "genten subfusci coloris"; speaking a dislect of Hamitic tongues; whoso birthplace was alao Northerd Africa.

1st How, in the rewote age of these ante-historica! migrations, could Berber races have got to Crete! By umvigation! Not imposaible, certainly; but, it is one thing to suppose s Mn. Caphtorim tacking bis frail hark, not along shore, but atraight ont 400 miles (agaitst Etesian gales) to windward, to the Island uf Cendin; and another to explain the embarkstion of a whole tribe of KPhTtRs, for aught we know, as namerous an the Phartarii or the Philistines. Such a royage, at auch nnosutical eposhes, is rather more diffcult to he conceived, in arehanalogy, than some mistake of a oopyist in mriting that neme which, as KTtR (save in the Text, vercions, and rahbinical commentors thereon), hes nerer yet been localized.

2d. What vealiges are there in Crete, or in her traditions, of any such Barbaresque visitstion? And why, after they had lended at Candis, did the KPátiRs abandon that aplendid islsnd en masse, and so thoronghly, thet not a auspicion of their sojourn is to be ionad in Cretan, in classienl, ur in Hamitic traditions !

When these two questions have receiped a reasonable answer, we nhall put our
8d, and last interrogatory - How comes it that, after all these improbibilities, the second voyage, from Crete to Palestine, is nurecorded?

It is troe that thres Lexta are quoted to identify the Philistines with Crete: - Exek. xxy. 16, "I will strateh out my hand apon the Philitines, and I will cat nff the EKRTA-Am." ZqPa. ii. 8 , "Wos unto the inhabitenta of the aesconst, the nation of the
 1 Sam. IIx. 14, 16, "We mede an invasion sonth of the KhRTt-im, . . . the land of the Philiotines."

Now, if the resemblance of KARTiI to Crete be the onjy reason for meking those Shillowh affiliations, called P-OLISiTE in bieroglyphics, navigate from Barbary to Candia, and thence to Palestine - if this be all, why the same palmographical anslogy might bring the KhBTtim from Khsertionm, the modera oity on the junctere of the

Blue and White Niles! Unluckily for Crete, these texta meraly show that KhRT-ine was another name - a nickname perhaps - for a sept of Philistinter in Paleatine. David's life-gunrls were composed of KhRTaI and PhLTa (2 Sam. viii. 18; 1 Chrorxviii. 17). They, with the GTII (2 Sam. xv. 18), made up a corps of "600 men." Now, the latter being citizens of Gath, the union of all three tribes into a cohort renders their homogeneity, as antive Paleatiniads, more than probable. But, node of these passages touch the Kaphtorm; whose name is distinct from that of the Kherehien.

But, it is anid, three other texis confirm the Creton theory: - Dest, ii. 23, "The $\boldsymbol{A}$ em that dwelled in villages an far as (Gazs?) $\hat{\boldsymbol{A} z a, ~ t h e ~ K P h T t h s ~ w h o ~ i s s u e d ~ f r o m ~}$ KPhTt R destroyed them and satablighed themgelves in their place." Jerem, rivii. 4 "IeHOusH will spoil the Philistines, the remnant of the country of KPhTt及" Aeor ix, 7, "The Philistines from KPATtR."

One must employ double-magnifying spectacies to see angthing more here than that Kaphtor was some place whence Philistines came (far, or near, unrevealed); bat, in what does all this concera the "Isiand of Candis"? Herodotus and Tacitur are quoted. The former merely says, that Creta was occapied by barbarous tribes until the time of Minos. This citation does not help Caphtorim out of the mire. The latter has "Judaos, Creta insuld profugos, novienima Libya insedise memorant." He speaks of Jeus, driven out of Casdia, taking refuge in Libya. What has that iscident to do with "Philistines from KPhTtR" in Palestine: Those who fancy that Hilzig or Movere, spite of their immense learaing, and dexterity in placing one Indo-Gemanio hypothesis alongside of another, have mended matters, will be edified by the perusal of Quatremère's critique of hoth. From it we tranglate: "It spemg me probahle that the Kreti inhabited to the south of the country of the Philistines, apon the aboree of the Mediterranean Sen, on the side which looks towards the frontiers of Egypl And a passage of Herodotus (iii. 5) comes perfectly in mopport of my opinion. According to the Greek biatorian, from Phœoicia to the environn of Kadytia [Jerasalem], the country is inhabited by Syriana, called Paletinians. From Kadytis to the town of Ienasos, the market-places appertain to the Arabs; thence after, to the Lake Serbodis, dwell the Syrians.' This curions passage demonetrates that to the south of the country of the Pbilistines there was a coast eufficiently considerable occopied by Arabs. Now, inasmuch as the passages of the Bible show os these Kreti establtehed in the same districta, I think they congtituted an Arab tribe that the love of gain had fired opon the shore of the Nediterranesn, that they (the Kreti) hed nothing in common either with the Philistines or with the Cretans."

Orthodor lexicograpby encourages a searcber with "Capiros-a aphere, s buchlen a hand, a palm, doves, or those that seck and inquire." We do, "at hive illm lachryme." The roots Ksh-P-TtoR might signify "the-Bull land"; but neither these, nor any othera hitherto offered, having furnished a clev to the genesiacal KaphTtoR-IM, we humbly place the name upon our "Table" coupled with the word "unknome."

Volsey, whose вcuteness of perception is beyond all praise, simply says, "les Kaph torim peuvent être les babitans de Gaza." Wherever may have been their abode in Palestine during later limes, Xth Genesis makes them so many affiliations of KhaN, the dark (red) race, through the Egyptians; and coasequently points to Barbary for their origin. Oor "Aftiliations of the MTsRim" now arrange themselvea es follows:

[All these families of mankind thas re-enter into the grand Gatulian group of Northwegtern Africs: of which anadry races, through prehistorical migrations, bad partially occupied Paleatine in ages anterior to the arrival of the Abrahamida. The surpasaing accuracy of the anoient compiler of Xth Genesis has now been triumphantly vindicated from a new quarter; and that which not a man of the ghostly achools, Whence iseued his raverence doctor amythe, bas ever possessed the knowledge to eppond rationally, hereia becomes comprehensihle through "Giiddon, eikeptical views of, - Index, p. 401." - G. R. G.] ${ }^{619}$

## "And KNAâN begat" (Gen. х. 15.)

35. |7'y - TsDDN - 'Sidon.'

One eapecial object of our Section A bas been achieved in the preceding pagee. It wha, to resoue the maligned "sffliations of KUSh," and the mystifed "pffliations of the MTeRim," from the sloughe of despond into which ecclesiastical hands had planged them. After fixing the former in Southern Arabis among the dark-red Jimyarief, and the latter in Barbary among the "gentes subfusci celoris" of Gatulian origin, we can now look down complacently upon the Egyptian alluvium of the Nila whether viewed as the true "Land of Khem" (the god), divine procerator of the Egyptian race; or as the "Land of KhaM," the swarthy people - as the centro-point, whither converge the rraditions and the anthropological similitades of Arahian Asis and of Barbaresque Africa. Our remsining objects will be satisfed by a catalogue of the other cognomina in Xth Genesis, according to the latest views of archneological science; beginning with TaIDoN.
The city of Sidon is the eimple meacing of our text; noten individual so christened: the viciasitudes of whose Sidosian inhabitants, "skilled in many arts," often lauded poetically by Homer, are eflehrated probaically in classic and hiblical dictionaries. Its local name weo Seyda wben the miter (G. R. G.) sojourned thero in 1829 and 1880. Orthodox philology replies to our query, es to the gignifcation of the word "Bidon - hunting, fahaing, Denison;" of which heterodory can accept but the second term in this instance; becacse the Semitio roots of sdyd, "to chase," here refer, as Trogos Pompeius tells us, to the icthyologio facilities of the locality; "nam pircen Phenices Aidon rocant." In ethbic classification Sidon derives prominence from having once been ( Gen. x. 19) the easternmost limit of Kanaanitish occupancy; and "after many yeara," continues Trogas, "the Philistinea of Aakslon drove out the Sidonians, who sought refuge on the rocky islet upon which they founded Tyre."
From Jubtin, the epitomizer of Trogas's lost volumes, we descend to Bochart, and edmire the subdued irony with which he disposes of commentatora upou the word TIDN: - " Quod nir qui in his literis paucos babuit mquales admirationem explicat vocem צדוח Sidon, non sine sdmiratione legi." The moat recent, and inoomparably the best qualifed archeologne who has journeyed ' 'round the Dead Ses and in the Bible

 400 stadia from Derytua, the Sidona of Antonine's Itinerarg, the Sydone of Peutinger'b Table, and, lagtly, the Civitae Sidona of the Pilgrim from Bordeaux. It woald be qaite useiens to argue this identity, which proves itself."
Conformahly to Xth Genesis, KNADN, parent of Sidon, wes an affiliation of Hak, but, "according to M. Movers, the Kanaanians, called by the Greeks Phanicians, were a people that appertained to the Senitic race; of which some tribes," says he, "at a time which preceded the commencement of our history, marched little by little, some coming from the north, hy way of Syris; othere, from the south, hy way of Arahis; ond, becording to all appearances, achieved, after several centuries, their establishment, in a permadent manner, in Palestive. Called Kanaanians, from the word Kanaan, KNAAN, which mesna a low land, by opposition to the term Aram, ARM, which
expreaned a high land, they composed, aceording to the recital of Moses, asingle people, bat divided into many mations," de.

To thla theory Quatremerre judicionsly objeoth, - that the opinion whioh ettribates a Sentitic origin to the Kamanites (aside from ita opposition to Xth Genesit, whith he considers of Mataic editorahip) reposen aniquely apon the reaemblance of the tonguo spozen by the Kananniten with the langages in vogue among other peopies to whom general consent now epplies the name of Shemilioh. He holds this basis to be ansafe; becanse all of the effisiations of Shem did not epeal one lagrego; notably the Elamites, of Porain; whose tongue differed ontirely from that of Arameatos or Arabe: at the same time, surrounded as the KNAANI over wero by Semitic influences, their langusge would necessarily imbibe such exotio idioms. Agein, it is hy quatremero considerod doubtifl; either that KNAAN means a low land, or ARM a high ope Indeed, one might add that the fobl N in Kanaon may be a later addition to an original root, KNA; sald to be the priatine name of the Phoiniket, Phanieians; which is probebly preserfed through another fertn, vis, ; Bend- $⿱$ NNK, "sons of Axar;" who were not "Glents," sa some commentatore imagine. Such diversities of seientite opinien are bere prearented to exhibit some problemata; not to solve them.

To wa the chert of Xth Genesis has proved a very trustworthy galde so fur. It asojgats an Hamitic origin to KNAAN ; and consequenty to the foundation of the city of Sidon. No facts known to us interfere with thin matural view. Droring the eighthnimih centuries m. c. the name of Sidon Wan already seniptured, aecording to RawلIosen and Layard, opon the monuments of Aesyria ; but the very oonjectural identity, elajoed by Osburn, of the BhaIRETANA, bieroglypbed on the Egyptinn reeorda of Ramees II., with the Sidonians, is now overthrown by Hinck's translation of a caneatio regiater of Gardanapslos, wherein the "Sharatixian" city beeomet oitnate "betveen Antioeb and Aleppo." We bave, moreover [rupra, p. 289, Fig. 289], identifed vith Egyptlan native soldiery of the royal guard the individual whom Mr. Osburn enopected to be a Sidonion None dispute, bowerer, that Sidon must bave been a " city" Thensoerer Xth Geneais was written, so we proceed to the next name.fe

## 86. $\Omega \Pi$ - К $\lambda T \boldsymbol{t}$ - 'Нетн.'

The Hittiter ere well known. Of them the patriarchal Abraham (Gar xxiii 9, 17, 19) purchased not a double eavern, called Machpelah; but "the field contracted for." Thus, under the magis wand of each echolarabip as that of the Vatitan Professor of Sacred Philology, maltitudes of mistranelsted Hebrew words are replaced by their bintorical meanings. -. " I hoechi," says Lanci, "diventano veneri, le doppie apelonebe spiegansi per contratti, j tortenti si cangiano in benefecii, le isole in popoli eatati, i topi in virili vergelle, le rohdini in puledri, le voragini in montagme."

In hieroglyphics, the KheT, variously euphonized, ocour so often, back to the ugo of Thotmes III, or the sixtesath century घ. O., that one need but refer to Mr. Bireh's critical papers for anthority. The "land of Kheta' among Egypliens seems to hare meant that part of Paieatine where wo find the Fittite of Scripture; bat the pame K heT also designated this very wide-spread people; who renppear, through Layerd'a researches, on the coneatic inscriptions of Absjris, as the Khatti or Khetta of Syria. To us, and to the writer of Xth Geneais, KheTt is not a mba, bat a peopia so callerise
37. יבוםי - IBUSI - 'Jebusits.'

In the book of Judges (xix. 10), s fisgitions act is reoounted, which chronologers asgign to ebont the year 1400 g . c. The dato seems too remots, but the earlier it is placed by commantatora, the more certain will be the crobeologieal deductions not abont to be dramb.

A Levite "rose up and departed, and eame over againat Jebne, whioh in Jerusalem ;" that in to sey, the plece had been known previonaly by the name of IBDS; but in the
time of the writer of Judges, was called Jarusalem, es a seoond name for one and the same locality; whence the Benjamites, who gave it this latter appellative, had failed to drive the Jeburites out "even unto this day." (Jud. i. 21.) So Joshua (xivil, 28), i. e. the book so-called, has "and 1 BUS which is Jerusalem ;" and without requiring forther information, the following text corroborates what precedes:--(1 Chron. xi. 4). "And Dasid and all Iarael went to Jerusalem, which in IBDS, where the IBUSim (were thea) the inhabitants of the land."

Heace it is certain, that BUS was a very ancient oity, on the site of which the exotic Israelites founded e more reoent one they pamed Jowalem-literaly, YeRuS, heritage, and 8 haLaiM, peace (in the dual) - written YeRushaLaiM, and signifying, cocording to Lanci, "She who inherits two-fold peace."

IBUSI, in Xth leneeik, mears therefore "a mar of, or belonging to, IBUS," a city; and not the imaginary son of a man of that name. Around this topographical ceatre clugtered the IBUSIm before the irraption of Larael'a hoste into Kanaan. There the Jcbusites manfully rindicated their nationality ontil David stormed their citadel, Mt. Zion; and here some of them remained long after their city was changed into Jerusalem, until the invader and the invaded were awallowed up hy the Babyloniang.
. Now, whether a tribe called IBUSim built a city and nemed it after a mythical ances tor, divine or human ; or whether the anterior name of a eity was adopted by a tribe, is what neither ourselves nor any one else can avor. Xth Genesis opeaks of an Ibobian; just as it speaks of an inhsbitant of any more celebrated but perhapa not more ancient city than IDUS, already in existence when Joahua entared Paleatina

Mr. Osburn's reading of "Jebasite," among the "thirly-meven prisoners of BeniHessan," has not survived criticism [rupra, p. 173]; bat M. De Sanley recognizes Gabusa, or Jebus, upon the old coneiform tablets at Lake Vac. We note a "man appertnining to the ciry of Jebue" in the IBUSI of Xth Geoesis, and pass onwards. ${ }^{201}$

## 88. '7ดx - AMRI - 'Amorite.'

Around balf the circamference of the Lake Aophaltum, and from the Jordan northward to Mt. Hermon, once dwelt a people "of atature bigh as cedars, and otrong as oaka " (Amos ii. 9), called the Ayonix: - cousins to the Emim, Raphaim, Zuaim, Zamrumm, Niphinm, and AnaHm; felsely rendered "giants" in the versions; alt, according to the Vulgate tradslatora, "monstra qumdam de genere giganteo" (Numb. xiii. 33) : some of whom were so tremendously tall, that Caleb's spies reported how "we were in our own eyef as grasshoppers, and such were we in their eges." Nevertheless, astonishing as such human proportions seem, those of a therough-bred Amorite sarpassed them all; sccording to the orthodox atream of Hebraical traditions mpplied by Cahen.
"When $\mathbf{0 g}$ (the Amoritioh king of Beshan) sam the Israelite camp, which had aix parasangg (twenty-four miles) of extent, he said: I single-handed will undertake the counbat with this people, that they do not to me as to Sibon. For this object he detached a mountain six parasangs (twenty-four miles) in breadth, and placed it on his besd to heave it upon the Inrelites. Ood cnused an insect to come, which, piercing the mountain through the middle, caused Og's head to sink thercin. He, wishing to disengnge bimself, could not manage it, becauge one of his teeth projected in front very coasiderably. Moses then seized an axe ten cubits (ffteen feet) in length, and jumping into the air to the beight of ten cubitg (Afteen feet), struck the giant on the ankle-bone of his foak On falling, the corpse of $\mathrm{Og}_{\mathrm{g}}$ touched the Iszaelite camp." $\mathrm{To}_{0}$ similar mbbinical stories Horace replied, "Credat Judmus Apella !" After all, in the Text, another and later writer, during whose day $\mathrm{O}_{\mathrm{g}}$ 's iron bedstead was still exhibited at Rabbath, found, hy actual measurement, that this "remnant of giapts" had alept within an areo of only thirteen and $t$ half feet by six (Deut. ill. 11).

Among Berber tribea, the mame OMARE, Atimare, reappears in Ebn Khaledoca's liat; but whether indigenously, or exotically through some ante-historical Kancanitiah or modera Arsbaflintion ( gons of Omar, or Aumer?), others may better determina

It is long eince that Rosellini pointed out among the early Atistic conquesrs of the XVIIIth dynasty, the "Land of Owat:" but Birch firat suspected this conntry to be thet of the Palestinic Amorite; a conclusion enforeed by Hincks, and derelaped by Osbarn. There is a question atill pending between bierologista and cuneiform decypherers in regard to the "citudel of ATesh" in the land of Amart, which leates it yer untertaid whether the river Amoor, "Jamartes," or the nation Amorite in Palestine, in intended. Nor bave the Paleatinic travels of De Eavley ascertained any ruins of a city called AMR, whence the AMORI of Xth Genesis might be derjved : althedgh nothing can be more precious to the etbnologist than the "Figure of a Maalite" dicovered by him on the "hybrid monument, in which the Egyptian and the Askgrian styies ara intermingled," at Redjom-bl-Asbed. Ignorance of Jadaic topography bere compela un merely to read an AMoR-ian; a toen of, or belonging to, the city, country, or tribe, of $\Delta \mathrm{MR}$. 69

## 39. 'גרגשׂ - GRGSI - 'Giransits.'

This, together with the two preceding and all the following affiliations of KNAdM, has the termination I (iod); which in Semitic tongoes commonly indicates the berdosp ing-to a place; for instance, Mus'r means Cairo; Mus'ri, a Cairine. In Xth Genesi, this adjunct to a geographical proper name has precisely the same grimmatical acreptation; and if acience cannot always find the place alluded to, the fault lies at the door of truvellera leen qualified than a De Sanley. GRGS-I signifies nothing more than a man belongingrto a locality once called GRGS; although ita Paleatinic sirastion still lacks a discoverer. Other hookg of the Hehrews are eilent on this name; which was all that remained of a Girgasite eved in the time of Jobephus, 1800 jears $3 g o$; onless "the country of the Gergesencs," mentioned by Hathere (viii. 28), contrined other persons than those "possessed with devils." 223

## 40. 'ソП — KhUI - 'Hгугте.'

A man "of, or belonging to," a place called KhU; now pronounced, through the modern Chaldee substitution of V for U, "KhsV," The KhUItes rank among the ot expelled Kanaanites; because Jobhua (xi. 19) auffered some of them to deceive him into © peace; and Solomon ( 1 Kings ix. 20, 21) exacted "bond-service" from othert.

We mast never forget, in viewing this oame and its fellow-nomina, that time, dibtance, foreigr and obsolete langnages now repated to be "sacred," combined with the singular mixture of scepticism and maryelloussess instilled into our midds by juvenilo edacation, lepd an enchantment to these Kanamitish people that would vanisb, did Wh now possess the bonor of their acquaintance. They all were petty tribes of a fer thousands, at most of fewer myriads of population; comprised within an area so verf inpignificant, that SL. Jerome, who travelled over Paleatine (which had previously included the whole of these nations, and other people besides), wisely deprecates statirtics: - " Pudet dicere latitadinem terre repromissionis, ne ethacis occasionem hlasphemandi dedisse videamur." That criticism which, precareor of Njebubr, the acthor of "Scienza Nuova," applied so successfully to early Roman, might equally well be adspted to early Jewish history-" What we may say about the poetic geogrophy of the Greeks guite the ancient geography of the Latins. Latium possessed, without douht, at the commencement, bat a petty extent; inasmach es, while employing two bundred and fifty years to conquer tweoty different peoples, Rome during that time did not
stretoh ont the frontier of her empire further than twenty miles round about." Among "the cities of the KhU-in" (2 Sam. xiv. 7) we cannot yet place a finger npoo that particular one whence hailed the "citizen" individualized in Xth Genesis, ${ }^{64}$

## 41. 'קרע - AáRKI - 'Arkite.'

A man of Arka, or Acra; a city the ruing of which are still been at Tel-Arka, mound of Arke, hetween Tripoli and Antaradus; but Akra must have beed already a city when Abar-sdan - pal and Temenehar I. recorded its capture in the eighth - minth century p. c.: else Rawlinson could not have discovered its cuncatio name.
[In former inquiries into the probable origin of some Berber names, that ceriainly present some Kanasnitigh coipcidences, I indicated the ERKYE of Ebn Khaledoon as bomonymous. That some Kandanitet sought refuge in Barbary is andoubtedly historical; that some Betbers did once occupy Kaman has been already shown. There is a strange blending of Gretulian and Arahian elements in Palestine anterior to the bdrent of the Abrahamida, underlying every record, which the sapposition of a crentive centre, distinct from that of Euphratic tradition, might possibly explain. G. R. G.]
42. ${ }^{\prime}$ ס-SINI - 'Sinite.'
$A$ man " of, or belonging to the town of SIN," not far from Acra, on the slopes of Mount Lebanon. This дeme reappears amoog Ebn Khaledoon's Berber tribes as the ZIN-ata.ens

## 43. 'דאוד - ARUDI - ' Arvadite.'

A man of Roteryda (as modern Syrians now desigaste the little is)and of Aradus', which town, with its continental neighbor Antaradus, was a famed Phenician emporium. Every lexicon explains the familiar locality; hut Osborn has the merit of indicating the people and their name bieroglyphed amid the conqueata of Sethei I., and Ramses II.; foarteenth-sixteenth centuries s. 0. ; and Rawlinson that of reading the caneiform inscriptions in which, during the eighth-ninth centuries $\mathbf{B} . \mathrm{c}$., the existence of Aradue is chronicled. 67

## 44. 'צ - T8MRI - ' Z8marite.'

A man of the Phœaicibn town of Simyta, not far from Antaradus, on the western spur of Mount Lehanon; afterwarda occupied hy the Benjamites, who probahly expelled its inhabitanta - the TsMR-im. A similar name occars among Ebn Kbaledoon's Defocts; but, heyond this phonetic and therefore uncerlain ansiogy, we here must emulate the laconic chorography, not merely of Xth laenesib, but of map-makers In general, having nothing to add to the investigations of Bochart. 6

## 45. 'KhMTtI -.. ‘Пamatmite.'

This in a man "belonging to a city" situsto on the Orontes at the eastern frontier of Palestico, now called el-मamah hy Syrians. Althougb later Greeks termed it Epiphaneia daring their dominion, the netives have alrays preberyed ite antique nomed. The LXXX properly wrote $\mathrm{E} \mu \mathrm{d} \theta$ : as did Absyrisas, six centuries before them, in cuneatic inscriptions deciphered by Rawlinson; while, at least four hundred yeara previously, Ramses III. bad hieroglyphed the Iamathiter among his Asiatic vanquighed.

Fe wond passingly notice that which, philologicaly apeating, is incontrovertible in regard to the Hebrev transcription of thia name. Tbe letier I, iod, bas been ahown above to be the demonstrative adjunct " of, or belonging to" a locality. Tt, tau, in all nencient Mamitic idioms is the feminioe article, the; prefixed or anfimed even now to abondant Berber nomina - ex. gr., T-Amarirgh or Amasirgh-T. These cut away,
the pristine monosylleble of KhaMaTiI is KhM; idenijeal with KhaM the name of Egypt; and also with KhaM the eon of Noab, personified symbol of all Mannitic families We have traced the Philiotioner to a Barbaresque source, allhough bistory datwas upen them in Paleatine. The writer of Xth Genesis, whose suthority bes been forrad 80 unexceptionably safe bitherto, makes $A K$ MaM-ite citizen on the frontier of Falestive descedd from KNAaN; the figurative son of KCS $h$ who was the figurative son of KhaM. The Ifamitic aricle T is suffized to the primitive biliteral name of a city, Those existence is carried back on Egyptian monuments to Mosaic epochas. There is no historical limit definable for the foondation of the city; none, most assaredly, for the antifuity of ita name. But, archoology may draw, from other data, inferences that appear astiffactory : before congidering which, jugtice to the memory of homen great. ness auggesta a citatiod : -
"The man who hat anticipated by a cantury the movements of mind towards modern sciences; who has raised ap questions which, down to him, were connidered to be resolved or to be insolubla; who has carried the investigations of a criticism the mas intrepid into docaments by all antiquity respected ; who never bent himself before established prejudice; who has accomplished the double enterprise of dastroying and of reconstructing universal hishory; who has treated upon all the sciences witbout being acquainted precisely with any one, and who bequeathed to each of them some fecund teaching; the man who has almost divined all the discoveries of the nineteenth century; who, appertaibing to an age [1722] and to a country [Naples] wherein thought was never freo, seomed to ignort that the saying of every thing to every body, was to expose himself to he comprehended by nobody; the man whose genius recalls the mighty intellects of Plato and of Aristotle, degeryes to be followed step by step in the development of his glorious intelligence and in the viciesitndes of his long and unhappy life." That man wan Vico. In "eatablisbing the Principles" of historical criticism, he laid down, for the j07th Fule: "the commencements of nations preceded the commencements of cities." A hagiographer smilen at ite infintine simplicity let os raise a laugh at his.

We have been that, Sidon, Bers, Arka, Sin, Aradur, Simyra, and Mamath, ware citial. We know that the terminal letter I, iod, to six of thete aeren names, prodpces, in Semilic idioms, exnctly the same effect that our addition of an English "ian " changes them into a Sidon-ian, an Ibus-ian, an Ark-ian, a Sin-ian, an Aradian, a Simyr-ian, and n Hamathoion. Ergo, theso peoplo derive thair appellatives from citica; built, of course, before men could hail from them. What now - let as torn round and ast the emiling querist, on his face augmente ite longiţude while diminishing its risihle latitude, -That now becomen of your fables about those men called Sidon, Ibuz, Arka, Sin, Aradur, Simyra, or Hamath, whom your schools have dired to fud in Xth Geresis, es sons, forsooth [!], of another fabulous humen being your philologers spell "Cautan"?

But, there is yet another deduction which the reader will draw at once from these premises, viz. : - that, inasmuch as a man could not be a Ifamathian before the city of Hamath was built, the fact that the writer of Xth Geneais epeaks of a Khr.NaTi, or Jamathian, proves that the document called "Xth Genesis" was witten after, probably long after, this city had existed; and, tberefore, that he (tbe writer sforesaid) never dreamed that modern logopoists would metamorphose his rities into so meny human beings.

The age of the foundstion of all these cities receding beyond historical chronology. we have said enough on the Hamathian and his compeers: hat, white taking leare of the cities included in the terrestrial area called KNAAN, we litevise bid farewell to every commentator who perpetuates rablinical superatitions about "Carann" and bis gigantic progeny. "These," says the chorographer of XLb Genesis, on cloaing his Hanitic list - "These are the affiations of KhnM [i. e., the swarthy], anter their familiss, sfter their tongues, in their countries, and in their nations." (Gen. $x$ 20.)

Nolhing can be plainer, nor more acientifically concise. In our jourcey fron Rabylon
through Soathern Arahia, and roand by the shores of the Brgthrean (red), Bdomite or Red Ses, the dart Fimyarites (red) have accompanied us, over the Suez Ithmus, into Egypt - the triee "land of KhiM" (derk); its ancient name preserved in Chem-mia-sbode of the red people, "par excellence." Thenoe, towards the weat along Barbary we see the prolongations of the same Famitic (dark) families, "gentes subfuaci coloria," otretching between the Baharn desert and the Mediterrspean, as far as Meuritanis: whilet, towerds the east, through Palestine, we behold the wreoke of an aboriginal population, linked by traditions and primitive speech to Egypt and to Barbary, "tinged with the red of Gpotulian blood," and Hamutic under avery aspect. $\mathrm{en}^{0}$

We naxt take up the "Afiliations of gacy,"

## "And unto SheM (there was) issue." (Gen. x. 21-Hebrew Text.)

46. עילם- Аа́̆LM - ' Elam.'

Preceding generations have bent their intelligencies towards the elvcidation of Shemitioh subjects with more real, sad therefore with more succeas, than towards that of Jepethic or of Hamitic problems.

Owing party to the fortuitous preservation of this family's chronicles in grenter completeness then thoee of any people except the Chinese; still more, to the ehsence, until this century, of those immortal diseoveries epitomixed in two nanes, "Ceampollion and funtinsox"; and, beyond any other stimulant of researeh, to doctrinal biases in favar of a select line that, under the name of Hehrews and Araba, tracen its pedigree backwards to a biliteral SM - owing, we repeat, to these historical eccidente, we happen to knOW a Littie more ahout some of SM's poaterity, their annels, babitatr, and associstions, than we do concerning other leas respectahle, becanse unrecordel, "Typer ol Mankind."

According to Ainsworth, geologist to the Euphrates Expelition, Elymair, conatry of the Elymat (the capital city of whicb was also called Elymaio when clessicsl history first dawns upon its geography), was a Persian province, situate to the south of Medis, between the river Tigris and the Persian Appeninea, sloping downwards into Susiana and to the Persian Gulf. Tradition, through Polyhios and Strabo, agcribes to its Elymaas inhabitents a northern origin; and Josephus calis them "the founders of the Persians": with whom they are often confounded in later Hebrew anpals; for Pergia and Persepolis are both called Elam (1 Haccab, ri. 12; 2 id. ix. 2). They were, however, in the day of Abraham, already oceupiens of a kingotom called Elam (Gm. ziv. 1,9); so thet when, more then a tbousand years later, the compiler of Xth Genesis registered AAILM on his ethnic chart, be naturally mennt the country which had been so called from times immemorial befors him.

This conntry (generally, if improperly, incladed in the sestions of territory comprebended by the term Shariana), is full of ancient cuneiform remsina; both of the Persian and of the older Aseyrian period: but, in 1848, one class of the cuneatio ineoriptions there discovered, owing to "the number of new characters whicb they exbibitcharactera for which no conjectural equivalent can be found aither in the Bebylonian or the Assyrian alphabet" - was denominated Elymaan by Rawlinson, being monoments distidet from their neighbora,

Under these circumstances, until $\mathrm{Ha}_{\mathrm{w}}$ linson or his emulous competitors ahall breathe upon these "dry bones" of Elymais, "and say onto them, 0 ye dry bonef, bear!" it is beet pot to hazerd opinions on the anknown, which the next mail from Europe may perhaps render clear as day. We therefore merely indicata a diecrepancy at present evident between modern philological and historical resulta and the Semitioh genealogy of AAILM-ais, in Xth Genesis. According to the latter, the AAILM-ites ebould have epoken a dialect of the Aramazan class of lnoguges: bat, secording to the former, es interpreted by Lenormant, Quatremere, Movers, and others, the affrities of

AaILM, cognate if not identical with the Perbiang, are Arian. It seema to us, however, that Löwenstern's solution is satisfactory. He shows how the primitive Elamites were of Semitio extraction, but that, in after times, Bcythic conquerora superimposed in Elam their extrnneous blood, tongues, sud traditions; as the reader can rerify in this author's learned papers. In the meanfhile, Le Saulcy has read upon cuneatic inscriptions of the age of Asar-haddon, eighth century b. c., that this monarch was "rex populi Assur," and "rex populi Elam": aod this is conformed by Lejerd's Second Expedition, for "Sepnecherib apeaks of the army which defended the workmen being attacked by the king of Elam and the king of Babylon."

Our confidence in the compiler of Xth Geneais atands unshaten. If, as we have proved, his tahulation of the distant Hamites is so correct, how much better mast a Chaldzan chorographer have been acquainted with the legendery origina of a Bemitish AaILM-cis 9 an

## 47. '7w - ASUR — 'Asshur.'

While admitting the equirocal nature of the tert of Gerchis $\mathbf{x}$. 11, we have giren reasons [supra, p. 509] for reading - "From this land (Shinar) he bimself (NiMRoD) went forth (to) ASUR (Assyria) and huilded Nibeveh," \&c. Such lesson indientes that we have now before us a geographical name.
"It would be strange," crilically remarks De Sola, "if AasDR, a son of Sheti (Gen. 1. 22) were mentioned bmong the descendants of Cham, of whom Nimrod was one. It rould be equally strange if the deeds of Ashor were apoken of (in rerse 11) before his birth and degcent had been mentioned." The writer of Xuh Gebegis, a plain sensible man, compiling the Assyrian department of his chart not imposeibly in ASLR itself, wat not likely to have committed guch a needless aunchronism. Lat us examine another text.

King Jaraes's version, Genesis ii. 14—"And the name of the third river is Hiddekel: that is it which goeth toward the east of Assyria" This text has opportunely received recent ventilation at Paris, in discussions between De Longpérier, an Orientalist a profound in biblical as in all archaic lore, and a learned dogmatist, M. Hoeffer. The ante-diluvian river, miswritten Fiddekel in our version,"is, in the Text, H-DK $L_{4}$ theDiKLe - a pame that, through variona listorical transmutations, such es DiGLa, DidJLeh, TiGLe, and TiGRE (Tigrdm, in Persepolitan inecriptions), is inherited by un io its euphonized Lativ form - the TIGRIS.

The Text therefore reade literally - the Trasis, "ipae vadens KDNTt (ante) ASCR;" Parisian dehate turned upoo the meaning of KDMTt; by Engliah interpreters rendered "East;"-- a translation which, if true, (as dogmetism had maintained,) woold place the city of Nineveh, built in the land of ASUR (Gen. x. 11), on the west bank of that river; supposing almays that the river lay to the east of it (Assyris). And thus "Holy Scripture" was trinmphantly quoted to prove thas, inesmuch as Ninereh Fias situate trest of the Tigris, the fast exhumalions of Botta, Layard, Plece, and Rewlinson, on the castern bank, which people fondly supposed to bave been exeected in ente-dilnvian Assyria, not hsving been made on the site of Nineveh at all, the whoie of these discoveries, in regard to Nincoeh, fell to the ground!

But, Mrs. Rich and St. Jerome naively tell us - "It is one thing to write hitiony, and another to write prophecy under the immediale effect of inspiration" If "a prophet is not without honor, but in his own country, and among bis own kin, sod in his own house" (Mark vi. 4); that is, among those mortals who happen to know him best; - the anfortunate scholar allnded to can bope for little elscmhere; since $D$ e Longpérier eatshlighed:-

1st. That Herodotus has powhere connected the Tigris with Absyria
2d. That neither the Septuagint, nor the Valgate, any more than the Hebrew Tert, jnatifies such a reading es "East" in Genesis ii. I4.

3d That KDMTt here meaning simply "en brant vers," the trae eignifeation of
this passage must be, to English, "the Tigris, flowing in front tozards (say opposite) Assyria."

Our digression introdaces another difficulty. Between the land of ASUR in IId Generis, and ASUR in Genesis Xth, rolla the Flood; which, contrary to the nophistries of the Rev. Dr. J. Pye Smith, we wholly egree with the "Friend of Moses," and the mriter of Genesis VIIth, in considering to have been universal. If geology, in the XIXth centary after Christ, distarers phenomena which prove Diluwian momentaneous miverenlity to be impossible, 80 much the worse for geologista. But to attribute to Hebrew enthors living long anbequently to the XIXth century s. c., the intrepid conceptions of modern geology, is to commit a most gross historical anachronism; besides inventing a doctrine utteriy irreconcibable with the plain squareletters of the Hebrew Text We woold therefore merely inquire of the orthodor geologist whether he conघंders the land of ABUR, slong which ran the river Tigris before the universal Flood, to hsve been specified (by Moses) proleptically or retroleptically? His reply would onlighten us upon one of two propositions. If this Hebrew "scholar add statesman," as the Friend of Doses terms him, had hefore his eyes, as some maintaia, cerlain docaments writteo by ande-dilavian patriarchs, then ABUR, in such manuscripls, mnet have been the geographical appellative of a country existing before the Flood; which country, after the waters had passed a way, emerged as ASUR, along with its river Tigrin, on the same terrestrial area, in order to be catalogued hy the writer of Xth Genesis among other countries existing in his later day. Or, if Moses was enlightened upon events enterior to bis lifetime through "Divine inspirstion," then we pobsess the authority of the Moat High (through Moses) for sustajining that, ASUR, baving beea the geogrsphical name of a country yeara before the Deluge, and senturies before "Asaor, son of Sgex," was born, the writer of Xth Genesia was right in mapping the "land of ASUR" as a country, according to its ante-fluviatile acceptation in Cenesis ii. 14 - в coantry, too, wherein the masterly geological researches of Ainsworth coald discoper no traces of any Noachian Flood. That which remains certain is, that ASUR was already a country, eccording to the letier of Scripture itself, whensoever, or by whomaoever, or wheresoever, Xth Genesis was mritten; and, for our reaearches, "for as, that is enough." - " That you should wish to call Moses author of the Pentateuch, or Espmas the restorer of this anme work, 1 do not objech," philosophically wrote SL Jerome.

The name of ASDR, in unpuactuated Hebrew, becomes AShUR through rahbinicgl marks; and pasaing through different dialects and ages, as ATtUR, ATUR, ATURia, AthURA, ASSCRia, \&c., it is now written Aasyria by curselves. But, while modern Chaldee Jews bave preseryed in Athour the correspondent of Ashour as intonated by their forefathers, cunbiform ocholars heve discovered, in the land of ABAUR itaeli, the indigenous name, petroglyphed Asour, upon innumerable records disinterred from the mounds of Khorsabed and Nimroud.

Kings of the "country of AAUR" are now well-known personages to readers of Botia, Layard, Ravilizen, De Longperier, De Saulcy, Hinoke, Birch, Grotefend, Lämenatern, Oppert, Norris, Vaux, Endie, or Bonomi : nnd having been found upon sculptures coeval with the epoch of Jehu, king of Israel, ABUR was already the name of Assyria early in the ninth centary e.c.: an age, we think, nearly parallel with the ompilation of Xth Genesis. Tbese now-familiar topics need no panse; but some of those thinga which are less eo demead notice in tracing ASUR to ith primesal source. Haplinson finds in Assarac, (Asasrak, Asserah,) "god of Aaryria" - the deified proto-patriarch of that land - called in the inscriptione "father of the gods," "\&ing of the gods," "great ruler of the gods;" whose mythological aharacteristice nre those of Kronoe or Saturn. "I should suppoee him, an hend of the Pantheon, to be represented by that particular device of a teriged figure in a circle, which Wha subsequently adopted by the Persians to denote Oumusd, the chief deity of their religious system." And me may now leave bagiography to rejoice over poasible connections between the divide Assarac and Ashur the son of Shry, among those of other gonealogies of Xth Genesis; which doo-
ument Rawlingon does pot comeider anything more than "en historical representatuan of the great and lengthened migrations of the primitive Asiatic race of man." More recentiy we leard from Lajard bow - "Asshur, the king of the circle of the great gods," heads the list of the thirteen great gods of Anyrie, at Nimroud. At Debglon, however, the god Marduk is termed "the grest lord," "lord of lorde," "eider of the gods," \&c.; and Ashar no longer sppears, being the god of upled Assyrin, and not of the Babylonisn plains.

The cuneiform documents npon which AShUB figures as a nitive mythologenal personage approach in antiquity the cra of Moses. The hieroglyphical records in which A-su-ni occurs as the Egyptian name of Aayria, murpasy, by two hundred yeara, the ege of the Hebrew lswiver, beasase Birch dieoovera it apon ineoriptions of the time of Amanoph III [aupra, p. 138, fig. 82]. Space now prevents the demonetration that, among its rarious aymbolical meanings, A-SUR aignifies aleo "the-Bwilland;" bot the -riter (O. F. G.) will publish the ressons oleawhere. In the interim, to the maibor of Xth Genesis, $\triangle$ SAUR meant the country by us celled Aasyia - nothing more nor less.w

## 48. 7 7

"Abphayad (ARPhaKSaD: Bept. 'sppajed), the ton of Sbem, mad father of Balah; born one yenr after the Delage, and died b. c. 1904, aged 488 yeard (Gen xi. 12, \&c.)."

## Requieseat in parel

Such is the terge ohituary notice, -unaccompanied by the customary poetical regrets, or geperd invitation to atrend the foneral, $-\infty$ divinity atudent encounters when, seeking for instruction ahout the Bavior's genealogy, he opens Kitto's cyclopredia or Taylor's Calmet (the best Engliah biblical dictionaries) at the name Arpiaxad: and this is all. A noble cenotaph! We close those devout, not to say laborious, compendia, and tura to Volney's Recherehes Nouvelles.
"A finh people of Sem is Araf-Kashd, represented in the canton Arra-Packitiv of Ptolemy, which is a mountainous country, at the south of be Lake of Fan, whence stream forth the Tigris and the Lycus or great $Z a b$. Thin name signifies boundary of the Chaldaan, and seems to indlcate that tho Chaldæans, before Ninus, had extended themselves eyen thither. This Araph-Kasid, aecording to Josephus, was father of the Chaldeans; according to the Hebrew, he prodaced SHzLAB, whose trace, a city, and country, is found in the Salacha of Ptolemy. Bhelaif produoed Eber, fatier of all the peoples on the other side of the Euphrstes; but if we find him on this side, relatively to Judea, we have the right to eay that this antique tradition comes from Chatdame" Our analyses of Xth Genesib entirely corroborate Volney's deductions of its Chaldaio derivation; and justify Lenormant'a orthodor enlogies of him as "en dea hommes les plus penétrants de oe aldele." Prom the latter wa take the following note"Josephus bad made, before Michenis, of Aphazad, the father of the Casdia or Chaldeans. M. Bohlen explaina Arrapachitir by the Sanscrit: Aryapakschata, the country bordering upon Aria. This etymology is not unworthy of attention."

There is little to be added to Volney's definition; and that little confirms him ARPh-KaSD $\rightarrow$ after dividing ioto two worde that which in the Hebrew ancient Teri (Synagogne rolla) runs letter after letter, "continuê aerie," along the whole lipe yields us, as Michaelis first suggested, ARFA, the Arsbic for botmdary, and KASD, Chaldean. The atymology is in unison with Arsmanan orgines; and Aphaxad wa the brother of Aram: weile Bochert's identification of it with the propince of ArapeChitio of Ptolemy's geography also stands; but perbaps not with "nam quod Josephos et alil volunt Chaldfea olim ab eS dictos A rphazadeos mersm somninm est."

It is etrange how Oriental tradition clinge to the vicinities of Ararat as the monttainons birthplace of Chaldaic races. There we find the Heden (Eden) of Genesis IId, and "the house of Eden" extant in the time of the prophet Amos (i. 6); while another writer tells us how "Haran Canne, and Heden, have made traffic with what came from Seba, and Assyris learaed thy traffic " (Exek. xxiii. 23).

There, too, was the Haiasdan of the Armenians: and there the Hadéneche which Zoranster ennobled by the titte of the "pure Iran" becanse his birthplace was at Ourmi, on the horder of Lake Ourmish. "Thera," continges Dubois, "is the entique native-land of Arpacsed and of the Hebrews: and their patriarob Abrabam, like Zoromster, was born at Our, on the ahorag of Laky Ourmiab, in Chaldax There touches also Iran, Arhan, the had of Perainn mythes." In which comeotion let ng likewise add, that the river Akhoartan, whose sonrces lle on the mame ohain, still bears the name or ARPA-Tchar. But we raggest e malioration.

Abpiakisd, es a combry in Xuh Genesis, is the parental ajaree, through the province of Salecka, of Ebere, the gronderer; anid from the latter, acoording to the other document (Gen. xi. 18-26), eprang Abhatay, progenitor of the Abrahomida; born probebly at $O_{u r}$ Kardim, " Ur of the Chaldeen," whence they leaned "to go to the land of Kenêen." It in truo that Mr. Loftus considera the enormous rains of Werka to be the real "Ur of the Chaldees," now traditionally celled "the blrthplace of Abrahsm;" nor would the eatabligbment of this fact reault in any further eltorstion of our riew than by proving (what is vary likely) that ABPhn-KaSD was a different place from AUR-KaSDIM. The name "Chaldman" is alao ancient enough, baving been found in euneiform on the monumente of Nineveh

Be all this as it may, there still remaing one " Vr of the Chaldeen," AUR-ESDIM in the text, which is anquentionsbly, as shown by Ritter and by Ainsworth, the preaent city and diatrict of Urhoi, now Offa, or URPAA (celled, in Greco-Romen timet, Chaldaropolis, Antiochio, Calizhoe, and Edesa), in Didrbeltr. Allowing very common mutations of vowelg, we behold in Urfa, or ARPha, ARPha-KaSD, "Orfa of the Chaldaan," the shsolute molution of ARPGaxad, no lees than the earlieat geographical source of the Abrahamides.

Thua, at every atep, the chorographic exactitude of Xth Genesis is vindicated; and ARPhakaSD, no more a fabulous human being, regains its legitimate beritage among the countries of the earth. To the "late Mr." Abphaxad, "aged 438 years," Wo repeat our valedictory, "requieacat in pace!" ero
49. לוד-LUD - 'Lod.'

The bigh road from Nineveh, in the land of ASUR, Assyria, conducta a traveller towards Asia Minor, through ARFA-KASD, Chaldaan-Orfa, into Lydia;-m nama which, in its Greek epelling of Avda, foithfully transcribes the Hebrew LUD-ia.

This country derives its name, according to traditions collected by a native of A sis Minor, Herodotes of Halicarasssas, from Lydua, son of Atys; whose crown passed into the keeping of Hercales. This legend indicates the ante-hishorical groand we tread upon; and probably the intrasion of Hellenio fieraclida upon an nboriginal Lydian population, afflieted with the Shemites. The recest explorations of Fellows and the Lycian monnmente now rescued from perdition, establish, in the most convincing manner, the trensitions of art in all its symbolism, through Agis Minor, trom Assyria to Greece; and the mytbe of the Assyrian Hercules serves as a faithful thread through the mazes of this labyrinth : Wbich mythe, Grote observes, exhibits but the "tendency to universal personification"-being merely "Motar, Saga - an universal manifestation of the human mind."

But, from the premises, one deduction is solid, riz.: that Herodotus, than whom in Lydian questions there is no higher authority, makes Hercules succeed Lydus - the personified land of $I$ ydia, Now, inasmuch as the mythe of Hercules antedates all chromology, it follows that Herodotus, who says that Lydus preceded the Ifiratidar, looked upon the nutocthonons name and traditions of Lydia es atill more remote from bis own day; в. c. 484-480. To us, therefore, the Halicarnassisa's testimony, upon the antohistorical affairs of his native Asis Minor, would ipro facto outweigh any notices of

Lydia issuing from the "School of Esdras" in" Palestine (foreiga to Lydiba blood, language, and traditions), should the latter contradict him: which, happily, they do not
The compiler of Xth Genesis, educated, as we now begin to feel sassured, amid the "learning of the Chaldees," attributes no affliations to the geographical locality he designates LUD; any more than, in bis classification of the renior Hamida (ver. 6), be ascrihes deacendents to PKDT; which, we have aeen, is Barbary. This engenders the supposition that he knew little beyond the names of either; end thet just as to him, composing his ethnic chart in some Univeraity of Chaldma, PhDT sppeared $\boldsymbol{v}$ be the most western geagraphical range of Hamitic migrations, ao LED probably seemed to lie among the most portherly of Semitic. As auch, then, the daly registered them in his jnestimable chorography.

Some centuries prior to the age of this venerable digest, the Lydian are mentioned in Egyptian hieroglyphics. In the Asiatio conquents of Bethei-Meneptha, and of Rambes II., to say nothing of later Pharsohs, associated with Yonian, Riphaass, and other well-known famblies of Asia Minor, we find the oft-recurring "Land of Luderm"" or "land of the upper Luden," and " of the lower Luder." This eatablishes the existence of Lydia and of $L_{y d i a n s}$ at the XVIIIth dynasty, fourteenth-sixteenth centurien b. c. ; in days anterior to and coeval with Moses; i. e., much earlier than the compilation of Xth Geneais. But (to avoid Mossio conflictions with Egyptian records) it is best perbaps to ascend a fer generations beyond modern diaputes apon the era of the Hebrew "scholar and statesmen;" when by pointing out LUD and Lydians in chronicles appertaining to the anterior XVIIth dynasty, Fe show that Amonoph II., Tholmes III., and Amusoph III., successors of that "new king over Egypt thich knew not Joseph" (Ex. i. 8), could not rendily have heard of Moses's Lyding geography before the great lawgiver was horn. Poaterior in epoch to the former, and anterior to the latter diguitary, these Pharmohs of the XVIIth dynasty knew nothing about either Joseph or Moses.

Nor is history wanting to support the early spread of Egyptian arsan into Asis Minor; for besides a confused aggregation of evente of different ages to be met with in every classical lexicon under the head of "Besostris," we have the suthentic cacount of Tacitus that the Priests of Thebes read to the Emperor Germanicor, from hieroglyphical inscriptions, how "Ramesa overcame Libys, Ethjopia, the Medes and the Persians, Bactriana, and Scythia, and held sway over the lands which the Syrians, Armenians, end peighboring Cappadocians, inhabit from Bithynia op to the Lgcian Sea."

We cannot quote authority for the discovery of the name LUD in coneiform mitings; unless Ludenu he the same as the " Rutennu" of the "Grand Procession of Thotren III." [supra, p. 159], which Dirch fixes, in hieroglyphical geography, "north of the Great Sea," and compares with the Assyrian king Bargina's prisonera at Khorsabad.

However, LUD, being identical with Lydia, onters, like the resi, as a geographical appellative into the catalogae of Xth Genesis; and the cyclopedic notion that, from a man called LUD, "the Lydians in Asia Minor derived their name," ranke among the clildiah postalates helonging to an age of which acience now hopefally disecras "the heginning of the end." 64
51). ארם - ARM — 'Aram.'

Orthodox lexicography informs us that Abam means "highness, magnificance; other wise, one that deceives, or their curse." In this instance the erudition of "N. N." compensates for the meagre article by "J. P. S." in Kitto's cyclopsedis.

It has been shown already that Quatremere donhts Mover's derivation of ARM; Which the latter considers to mean a high land, in juxtaposition to KNAaN, a los land Still, the objection assigned by the former is inconclusive, because RM does actually aignify high; and with the primeval masculine article aleph, A, prefixed, A-RM is the-high. Cerinin it is, also, that the geographical hrolher of Arpha-Kasd, "Otfa of the

Chaldman," and of Lydia, must he Bought for along the eame Tauric uplands of Asis Minor; where ARM lay emong the "mountains of the east" (Numb. xxiii, 7). In Punic, also, the same word means high; for M. Judas reads on Numidien coins, Juba mDUK melkat $=$ " Jobe, highness of the realm."

Diociorus's Apppa 8pm or Arimi Jfontes, saggest themselves at once; although authorities disagree upon their locstion, in Phrygia, Lydia, Mysia, Cilicio, or Syria: but Strabo and Josephas inform us that the Greeks called Syrians those people who called themselves Aramatans: and when Homer and Hesiod wrote, the aptpot extended to Phrygia, Which they termed Arimaïa. Syria, therefore, in its widest scceptation, seems best to correspond to ARM, hecange the latter merges into Afesopotamia; and in Pliny and Pomponius Mels the name of Syria is applied to provinces even heyond the Euphrates and Tigris.

As the grand contre of Shemition fanilies, Syris still preservea the name of SheM in its Oriental appellative; being known to Syrions and the populations around them by no otier tide than BaR-Eo-ShaM, land of Shem, Arab geograpty explaing this coincidence by reasons worthy of athention. Syam means the left hand, and Yexres (Yemen in Arabie), the right; as, face directed to the East, an Arabian worahipped the rising sun; or looked back to ARM en the traditionary birthplace of his ancestry before, by emigration to Arsbia, they bed acquired the right to call themselves aRB, vetern-men. Damascus, Ef-Shdm el-kebect, "tho great Sham," may perhaps he the focus of these ancieat radiations: for its identity with Aram is marked in the passage --"The ARsMians of Damasels came to succor Hadadezer king of Sobah, \&c. (2 Sam. viii. 6. 6) - the versions generally substituting Syrians for Aramaans.

So extensive was the range of ARM in sncient geography that, to diatinguish its divisions, a qualifying name was generally appended to it: thus, Sedeh-ARM, the "field of Arsm," Padan-ARM, the "plain of Aram," and ARM-Naharam, "Aram of the two rivera," refer to parls of Mesopolnmia: ARM-Damanhk mas a Damascene territory; ABM-Sobah, probsbly Cilicis; ARM-Haakah, enst of the Jordan; and ARM-beth-Rekhtub, on which authorities vary. ARMI, an Aramaan, is a Syrian in one scripteral text ( 2 Kings v. 20), It is a Mesopotamian in another (Gen. xiv. 20).

Aramaan was the speech of the petriarchal Abrshamida, when abandoning ARPhaKaSD, or its equivalent AUR-KaSDtm (Chaldeas Orfa, or Ur of the Chaldees), they arrived in the land of Kndusn; where, forgetting their ancestral idiom, they adopled and mistamed Hebrew "the language of Kanaan," or Phanicion.

Thus, from Arsbis Deserta to the confines of Lydia, from Byris, over Mesopotamia, to Armenin, do we meet with ingnite reliquice of Aram: without being able, sfter four or five thousand years of migrations, to mark on the quickands of $A$ ramean geogrsphy any more specific locality for ARM, than Brais in its most extended senge.

Hieroglyphical researches do not sid as to a more definite ascription of ARM. In the Vaticnn Museum, the atatue of a prieat hears the inscription - ${ }^{\mathrm{w}}$ His majesty, King Darius, ever living, ordered me to go co Egypt, while his majesty was in ARMA": sopposed to be Asmytia. Nor, in Persepolitan cuneiform records or in those of Asayria, has any more pasitive identification of ARM heen discovered and puhlished than what may exist in Armina, Arama, \&c., considered to be Armeaia - a country io whoge name ARM is also preserved.

The writer of Xth Genesis may or may not have had more precise viewa upon ARM; Which he aet down with its parollels, Assyria, Offa, and Lydia, on his invaluable chart, and theo proceeded to tabnlate those tribes of the Semitio stock that looked back upon the land of ARM as their birthplace. 6

## "And the affiliations of ARM."


In Gen. 1. 23, the four mames after AMM are oalled BeNI-ARM; i. e., " sons of

Aram"; but, in 1 Chron i. 17, the anind four are catalogred as BeNI-shem; that is, "sons of Shem."

Hence one of two conclugions is aubmitted to hagiography. Either the writer of Chronicles followa a diferent geneslogical list from that of Xth Oenesis - in which case we are at a losn to which document to ascribe "plenary inspiration"-or (as Te maintain with every Oriontalist) the word BeNI (sons) does not menc, whether in the former or in the lather text, the boat fide offepring of a man called Alay, or of a man called Sury ; but gimply a general affliation; buch ea in Euglish we comprehend by Wilkin-son; or by Fizz-Gorald, Me-DoDald, $O^{\prime}$-Brion, $A p$-Shentyn, \&c.
aUTs, frst of the four, cannot well heve been Shem's aon and grandion at one and the asme time; unless it be claimed thst Shem wedded his own daughter: an escape not provided for in either tert; and if it were, what becomes of Aram'a paternity? Agin, ad imaginery human being celled SheH could not phyaically have been progenilor of a coundry called Akax. Common sense, however, besed upon the epirit of familiar Oriental peranifications, finds no contradiction between the authors of Xth Genesis and of 1 Chronicies; to whom aUTs and bie three figurative brethrea, as BeNI, "anfism tiona," were colonies or emigrant from an eapecial land termed ARaH ; itgelf clasaifed generically smong countriea occupied by Shemitioh families.

This erample, we prasume, suffices to ahow the absurdity of seeing huran iadiridaals where the writer of Xth Genesia catalogued naught but countries, cities, and tribes, after the symbolical names "Shem, Ham, and Japheth." - But, our difficulcies end not here.

## Gencsie X.

V. 23-Abd sons of AltaM, 1 UT , and K $\hbar U L$, and GTtR, and Mash.

Athird aUTs occurs among the deacendants of Esau (Grm, xxxil. 28).

## Genesio XXII.

V. 20 -- Milcah has aleo given sons to Nahor thy brother.
4 $21-40 \mathrm{~A}$ s his first borm, and BEZ his brother, and KMUAL, Futher of AReM.
" 22 - And KaSD-(i, e, Chaldaa) \&e.

With three distinot personifications (above exhibited), each called $\& \mathrm{UTa}$, it is next to impoasible for a commentalor to avoid equiroquea; and the country, or tribe, of one aUTs may be erroneously essigned to cither of the two others; even withont supposing mistakes in the two later genealogical ligts: which discrepancies, howerer, do not otherwise concern us. Xth Genesis, in every instance, hes atood the test of critical geography heretofore; and errors in this case are ours, not its venerable compiler's.

Nepertheless, in the recond list (Gon. xiii.), aUTs becomes the uncle of ARAM; whereas in Xth Genesig be is the latter's mon: while KaSD, Chesed, (singular of KasDIM, Chaldeane, unmentioned by the former author, figares, in the latter's list, among the deacendants of Narof, Abraban's brother.

It is to the land, ealied aUTs in Xth Genesib, that Job'e residence lo generslly assigued, owing to ita proximity to Cbaldera; Therefore the latcer pasange indicates a eoundry, rather than a tribe - bat in no case a man.

These triple chances of error, above notioed, compel arcbacology to be extremely wery in deoiding to whioh of namerone Arabian resemblances of name we are to attribute the aUTs of Xth Genesia-or really " land of 4UTs." Bochart ingenionsly guessed Lhe Esita, Ausilit, Autile, of Ptolemy, in the Syrian desert towards the Euphrates; where the Idumean Arabs Beni-Tamin bsve dwelt; to whom Jeremiab exclaims "Rejoice thee, danghter of Edom, who livest in the land of a VTa ." Lenormant follows Xishalis in selecting Damascus.

In Arab tradition, $O 2 z z$ was the parent of the lost Addite tribes; and, assuming this wild legend to be historical, by dint of mistransintions Forster has mised a fabric of deluaion exceeded only in extravagance hy tho same enthusiagtic divine's Sianic inecrip-
tions! It is in the ill-advised Appendiz to his excellent Geography, entitied "Hadramotic Inscriptions," that this erudite Orientalist loat bis balance when supposing that, in these very modern IIntyarite petroglyphs, he found himself "conversing, as it were, with the immediate descendants of Shem and Nonh, not through the doubtful medium of aucient history, or the dim light of Oriental tradition, but in their omn records of their own annals, 'graven with an iron ped, and lead, in the rock for ever!'" He translates the gecond line of Wellsted's short inscription as follows: "Avs assailed the Beni- $\lambda c$, and hanted [Lhem] down, and covered their faces mith blackness."

Heppy, indeed, though not perheps to the pious extent of the Rev. Mr, Forater, ehould we be to recognize 4 DTs in these ingcriptions; hut some trifing obstacles iaterveve. Suppose, forinstance, thet the Hadmmeutic inscription (No. 4), read into Arabic, ghould say nothing of the kind? Ex. gr., that which Forster translates " $A$ wo asesiled the Beni-Ac," \&c., should be, according to Hunt, "the effeminate gouthe are adorned and perfume their garments and strat proudly"! And suppose, that the language in which these inscriptions of Hisn Ghorìb are rritten, being the old Ehhèelee or Cushite tongue, does not admit of their being transeribed directly iato Arabjo idioma at all! Fresuel, the Himyarite discovercr " par excellence," gives the same inscription (No. 4), in Arabic letters, hut bas ventured no translation. Theae auppositions Forster, go far as fe can learn, hes never taken notice of; but goes on translating anything and everything into an Arabic "sui generis," with the same serene composure that Father Kircher, two centaries ago, read off at aight ( 1 ) those identical Sinaic inscriptions on which Forster has ?atterly exercised his orthodoxy without mentioning the lahors of his Heroulean prolotype.
aUTs, under these circumatances, remeins on our bands. Probabilities fsvor the Asita, Ausitis, of Ptolemy the geographer; and Joh's "Land of aUTs," on the Arsbian frontier of Chaldme, seems to inswer best to the Arameon analogies of Xth Genemin aUTs, we infer, was a tribacs

## 52. חול-KhUL-‘Hol.’

We eulipen the reader with orthodox lexioography as we proceed - "Hol, pair, infirmity, bringing forth children, samd, or expectation!"

Most anthorities abandon KhOL in despair: but Orotius indicated that a CceloSyrian city called Cholla by Ptolemy might represent KhUL; and Bochart noticed the frequenoy of this mord in the Armenisn localities of Chotha, Chotuata, Cholimma, and Chotobetere; whish last might be as Heilecio corruption of KhDL-Beth, "hoase of KAUL." Recent researches favor the adoption of the "land of Futeh," in whisb is the Lake Buich, at the north of Palestine. ${ }^{6}$

## 53. 7กม - GTtR - 'Getirer.'

Korsbic tradition execrates the memory of "Tharnowd, son of Gatelce, son of the Aram," among ante-historical tribes distinguished for their idolntry: bat mothing can exceed the pagueness of these legends.

Gadara, the metropolis of the Peras, east of the Jordsn, and ane of the cities of Decapolis, has been essumed to represent GTtR. Here the rell-twown miracle of the "swine" is said to have been performed. Thers are many other places whose names, with the slightest modifoations, answer equally rell: among them, Katara, a town and district plated by Ptolemy on the Persien Gulf, safficiently important to have beeome the bishopric of Gadara.

Gaddir, in Kanasnitish dialecta (wecording to Miny end Solinus, also in the "Punics lingun") meaning a bedge, limit, boundary, or "a place walled-round," rendera the confusion atill more perplexing; for in countries traversed by Phenician caravans, and occupied by their factora, any form of GTtR is an likely to have signified frontier or station, as to be derived from the tribe called $\mathrm{GT} / \mathrm{R}$ in X tb Genesia, 6

## 54. HD - MS—'Mash.'

Besides the digcrepancy, above removed, between Xth Genesis and the parallel in 1 Chronicles (i. 17), in regard to the affiliations of these fonr names from Sbem, or from Aram; here is another, that cannot be explained save through an error of some copyist. Who can really tell whether we should transpose MSEh into Ith Genesis, or MS into 1 Chronicles! [Supra, p. 4i3.] Two reasons, bowever, seem to juscify the

- accuracy of the former text: one that a MSK is already mentioned among the " sons of Japheth" (ver. 2); and therefore the repetition of a similar nnme amid the Shenites is improbable: the other that the chart of Xth Genesis is the "editio princeps," of older and more standard nuthority than the hooks cailed Chronicks.

The Afure, on the peninsuln of the Pergian Gulf whereon now atands the derivative city of Muscat - the Mataci Arabs in Mesopotamia; the Nasani near the Euphrstes; and the Aassonita of Yemen; might entice inquiries: but, we think their habitats someWhat distant from the localities where Aramaan trihes appetr to group; especially as MSA, Massa, descended from Ishmael (Gcr. xxy. 14), may well assert its right to the latter linenge.

We cannot amend the old view of Bochart and of Grotiug, that this Aramenn tribe arrives sbout Mt. Nasius; along Xenophon's river Nasca; in the Hasioni of Stephanas, and perhaps the Noscheni of Pliny; all of which point to Upper Mesopotamin as the camping-ground of Mash.6a

## "And ARPha-KaSD engendered SLK $h$, and SLK $h$ engendered aEBR" (Gen. x. 24).


Orfa in Diarrbeklr has heen elrendy demonstrated to be the fountain-soarce AphaKasd, "Chaldman Urfa," and no other than the true AUR-KaSDLM, "Cr of the Chaidees; " whence fow the earliest traditions of the Abrahamides.
aEBR, the yonderer, third in descent, seoms to show either that a dispineement had taken place before the name itaclf could well bave been assumed; or that the appellative "yonderer" is an ex post facto attribation-the consequence of a migrstion that had proviously Laken effect.

Detween these two names, Orfa as a fixed geographical poink, and Eber "fe who has gone beyond," staods SLKh; transcribed Salah in king James's version: perhaps in this instance with more propricty then according to the vigar Menoretic Shelah; Which is suggested us the marginal reading.

Sela of Ammianas Marcellinus, or Sele of P'olemy, a city in Sasinna, has received the concurrence of many commentators. Others consider SLEh unknown. If Folaey's suggestion of the city and territory called Salacha by Ptolemy be not the most probsble haltiog-place of the EDERi when they had left Chaldean Orfa, the ignorazce of every body consoles us for ours, 60

## 56. עבר - EBR, or rather éiBR - 'Пeber.'

[The impossihility of transcrihing the letter Gnain of the Hebrevis, fin of the Arabs, into any Europesn alphabet, bas been noticed by me long ago. Al a general principle, I follow the rules of Lane in these suhstitutions; but unieas a Europenn hears the sound of ain orientally articulated, his imagiation can reatize ite phowelinto ar little as his adult voice cen enunciate it. - G. R. G.]

Etymologically, EBR signifeg "one of the other side," or "the yorde-land $;$ " milet ERRL, a "yonderer," or "a man from the other side," has precisely the same rodical an the Greck Yrtp, Latinized into Iber (Iberes, Iberian); equivalent to trans, witra, te.
"HEBER (עבר, one of the other side; SepL "Eßtp and -E $\beta 4$ ), son of Salab, wto
became the father of Peleg at the age of 34 yearg, and died at the age of 464 (Gm. $x 24$; xi. 14; 1 Chron. i. 25). His name occurs in the geneslogy of Christ (Luke iij. 36). There is nothing to constitute Heare an hiderical personage; but there is a degree of interest condected with him from the notion, which the Jews themselves entertain, that the name of Hebrews spplied to them, was derived from this alleged anceetor of Abraham. No hitorical ground appeers why this name abould be derived from him rather than from any other personage that occurs in the oatalogue of Shem's descendants; hut there aro so mach stronger objections to every other hypothesis, that this perhaps is still the most probable of any which haya get bean atarted."
If the authors of this rolume had written the above scientific expost, it would have heen seized upon as another instance of "skeptical views" (asve the mark!); but the initiels "J. N." appended to the sbove article in Kitto are those of e profound Ger-meno-Hehraist, the Rer. Dr. Joen Nicholbon of Oxford.
Archmologically, the name EBR marke a digplacement, or dislocation, that must have occurred before such name could have been given or assumed.

Of such dislocation the earliest notive is the march of the Abrahamida from Orfa Chaldee to Harran (probably Carra), in Nesopotamia, and thence to Kanaan: where the Kanaanitea gave to Abrabax, probably, the degignation of $\mathrm{C} B \mathrm{~B}$, as "he who comes from yonder-land,"-Ganefivianus, or "from the other side" of the Euphrateowhence Hebram, EBRI, became the cognomen of this family. Indeed, it is remarked that the title EBRIM, yonderets, Hebrews, vas given to the Abrabamidm by foreign nations. They called themselves Ieraclites sfter Jacob'g mrestling match at Phenucl; and did not adopt that of "Hebrews" natil many centuries later.
We are dealing, therefore, in Xth Genesis - a document compiled at least five, if not ten, handrad yeara subsequently to the arrival of the earliest Abrahamidm in Kanaan - with a people upon whom the name EBR bad been imposed, "noleng volens" on their own part. Had the chorographer of Xth Genesis been a man of Abrabamic pedigree, be would probahly have desiguated bis own nation by ita most bonored title, "Igraelite;" but, far from that, a Chaldaan composing bis ethnio map in Chaldes, naturally gives to eBR ita radical sense of "yonderer" either because the Palestinic Abrabamida were so termed by burrounding populatios, or because they were then, to him, as EBeR-im, "people who had gone beyond" the Eaphrates. That there is no "prefiguration" (i. e., "eart before the horse") in Xth Genesis, has been provea by the pames Sidonian, Hamathian, \&c.; folks who could not well have been citizens of those cities, Sidon, Hamath, \&c., until after the bouses had been built: and inasmuch as these citizens are catalogued in the same document with EBR, the antiquity of the Intter's registration is brought down to historical times; long ages after that emigration from Chaldean Orfa into Palestine through which the foreigu application of " yonderers," given to Abraham's descendants, had originated.
"Fama crescit eundo;" and Oriental mythos - after Judaism, a bittle hefore the Christian era, had penetrated into Arahia; and still more forcibly after Istamism, in the seventh cestury, bad imbued pagan Arabinns wilh extraneous traditions - asgimilated EBER, now metamorphosed into a man and a patriarch, to the Arab prophet Hood: who, in netire Arabiaa tradition, playa a part bomewhat like that which Moses does in Jewish ; being their earliest metabistorical Reformer. Who this Hood probsbly is, the profound inve日tigations of Fresnel clearly indicate:-
DhU-NUAS, or Zhu-Nucded, is the subject. "Caire, 12 Hars, 1845.
"The Greeks knew that Bacchus was Arahian, and have sought for the etymology of the name $\Delta$ beveos, Dionybus, after their own fashion: they made of it the god of Nyar,' Nysa being a city of Arabia, or, as bays Merodotas, of Ethiopia, where $\mathrm{M}_{\text {acchus }}$ was raised by the Nymphs. . . . . . . . . About forty miles to the east of Zhaffr, the most ancient of all their (Arnbinn) metropoles, and the site of the oldest Arabian civijiastion, is a mountain that Edrisi calls Lous, and that the inhahitants of Mnhrah call Nols. . . . . . . . This mountain of No\&s, near which is found, not the Kabr How, or
tomb of Heber (BBR), but the Kabe Saleh (that is to eay, the tomb of the Farinke or Houd, according to Arab notions) is the point where I plaoe the birth of Bacchat ; in other words, the point of departure for thome civilizing conqueate of which the Arabe have proserved the remembrance. These oonquasta are not the aot of a singie man, or if one might so express oneself, 'of a aingle Bacehan' Dhew-Ons or Dhow-Noes (iv the oblique case, Dhi-Ons or Dhi-Noas), Dhow' $!$ Karnegn (the man with the two horns), Afrikis (the god-father of $\Delta$ friob), Lokman, do., tio, sre to me se many personifications of Bacehos; and if you must aboolately have a religious ide pro-existent to Arsb kings, a Bacehur outaide of Yemenite dyanties, I ehould venture to tell yout to seak for Becehue in the tomb Salch (BLKh) [Gen $工$ 24] onder the Djabat Nodr. Beachus then will be the father of the patriarch Hêber (EBB), of the $A$ brahamides and of the Jokcanide.
"Will you mount up atill higher? Aheross is (Hobraiod) DU-ANOSk, Dhow-Enosh (the god of the fulgar), or lestly, Enos bimself, Enos, greadeon of Admm.
"Agréoz, moneieur, \&a,
" $亠$ M M. Morl, Journal Asiatique, Paris."
"F. Fepariz"
Our reasarebes do not require our acompanying M. Mohl into antediluvian ragions, Wo are setisted when ahown that EBR in Xth Genetin is the netaral appelation of e tribs; better known to modern science as Bource of the Ahrahapides 61

## "And unto EBR were born two sons."

57. פל - PLG - ' Plefo.'
"And the name of one (Tes) PLO," explains the puthor of Xth Genesis, "because in his day the earth was divided;" literally, "PLGed," split. In modern Arabic eren, the ideatical word FLG means a "aplit," and "to split;" which agein induces a smile at mystifications concerning a " вacred tongue," every third word of which exists in the Arabic dirig, vernacular; every secoud in the Nahwee, or Koranic idiom; erery one, in some form or other, by easily recognizable chagges of contanant or yowe, in the Qamoor - the "Ocean" exicon of Arabian literature. Any well-educated $A$ rab, we fear not to maintain, who could first perase in some Earopean tongus a few philoaophical morks on Mebren litorature and comparative philology, woald master the 5042 words counted (by Leusden) in this exaggerated Kanenitish langage, after devoting one day to its alphabet, in about a week. This doctrine go Shemitish Orientalist (no Lanci, no De Saulcy, no Quatremère, no Frannel, no Rewlinson), wili deay, "We hure remarked in it," commeala De Sanlcy upon the Toion dror, a gew Phonician work by the Abbe Bourgade, "a pasage the jubtnese of which we ought to appland ; because, in order to write it, one must not bsye been ecared by the acientific anathemas of certain too-exclusive savents. Here is this passage - ' It is therefore rational to make use of Hebrew, and of the other Aramean idioms to explain the Punio: one may also use Arabic, another ramification of the Semitic family; sometimes eren it is indispensable to have recourse to this langusge, almost all Hebrete words being found within Arabic, either withont modification, or with very slight modifications, sometimes in the form, at others in the sense, but not vice-verah; the language of the Foràn heiog incontestably richer than that of the Dible.'"

On the historical monstrosivies erected upon this verse of Scripture, it is not for is to dwell. Pelagos, the Pelasgi, and Pelargos; the "Seg," the "fossil peopie" as Niebuhr beautifully calls them, or the "Stork," do not concera an alien Semitic bisyllahle, whose simplest essence is Anglice a "eplit" Fe are loath to reject the Bocbartian assimilation of Phalga, a torn on the Euphrates, near Charra; whicb town, some any, is Maran, huilt by Abraham's brother, nfter his own death at Chaldaan-Orfa: just in the same way that Moses poathumously describes his own ever-untaown burial-place, bis wake of thirty days, \&c. (Deut. xxily. 6-12): but Fe veuture to submit the following doubts:-

1st. If by PLG, or PALG, the editor of Xth Genesis meant تhat, in every instance bat the mythological NMRD, is berein proved to bave been a country, a propie, or a rity, then the parenthetical peasege, "becease in his day the earth was apli," may be a glose by some later hand, $\rightarrow$ rationally suggented through paronomesia of the triliteral PLG "split" combined with imprations formed upon other docaments by aseh interpolator - the whole haring been subsequently recsat by the Eadraic sebool from which we inherit (every possible chance of intervening error sad perversion inclasive) this varse of Xth Genesis.

2nd. If it were ahown that a gloes magt be es unlikely ea it is dangeroun to the chame of plenary inspiration; then, before we can percalve a neoessity for supposing that the chorographer of Xth Geneds here ulades to the "Disperion of mankind," we would inquire Fhether the चords "(\$wo) spitit the earth" do not refer to some losal and terrestrial ostantrophe-an earthquake, for instance-that, ofourring simultanecusily, may have become traditionally coopled with a PLGian migration. A similar catastrophe, Introduced into Menotho's taxt in saimilar manner, oocurred under Bochus, lat King of the second Egyplinn dynasty, when "a hugo ohesm" was made at Buhastis.

Ard, and lantly-If none of the above posaihilities be astisfactory, then, falling baok upon the indahitahle orthodory of the Parision Professor of Egyptien Archanology, we should perceive in the worde "becanse in his day the earth (was) spiti," merely a partition of territory between the PLAIan and the Joktanide affiliations of EBB the "yonderer."-" Of the two aons of thia Patriarch, the Arst, Phaleg (holda Lenorment), indicating that part of the nation that continued to Fender in Upper Mesopatamia; Jetan; the second, shows us on the contrary the other portion of the same people which first set itself on a meroh towards the south." The verb "divide" occurs three times in the English verrion of Xth Geaeaie (5, 25, 32). It aeed scarcely be mentioned thath, in the Hebret, the play upon the word PLG "to aplit " presents itself only in varse 26. The other tro passagos use a distinct verh, NPARDD, "they diepersed."
"Hypotheses non fingo"-and an everything beyond the name of PLA, "aplit," is an hypotheais, we loave haglogrepty to "aplit hnirs" on the queation; meraly insisting here that PLG has no relation whatever to a "Disperaion of mankind." ets
58. ;קי - IKTN - 'Joztan.'

The compiler of Xth Genesis closed the ancestral line of the $A$ brahamida, abraptly, with PeLeO, a "aplit." Yet to the pedigree of IKTN he devoles particular attention; for, berides catalogring thirteen of the latter's deacendapia, be adds, "all these are sons of IKTN": and then fixes their dwelling-places.

Why this difference? Were bis pertielities Arabian! Did he know all aboat Arab migrations, and nothing of those of the Abrahamide? Had the writer been a "Hehrew of the Hebrews," be mould scarcely have blocked the "royal line of David" at pLO, "a split"; and thereby left to another band, is another document (Gen, xi. 18-26), at a later age, the tank of linking Abraham's genealogy to his nwn ethnic map of nations and places. Here again, a foreigner to Judaism and Jews, our conjectaral Chaldaan chorographer, "laisse percer le bout d'oreille." Such alien would not hape greatly coocerned himself with the Abrahamida, a petty tribe that had wandered off to Kenaan; and the writer of Xih Genesis did not: wuch alien would have taken much interest in the proceedings of the ever restless Joktanida, always harrying the Mesopotamian fronlior ; and the mriter of Xth Geneais did.

IoKTaN, Joktan, Foktan, or correctly Qaktan, the Beni-Kahtà-most ancient and ranopied of all Semitish intradere upon the domains of Cunhite-Himydr-need nc panegyrist. They have ground their lance-heads upon every pebble "from Havilah to Shur, that is hefore Egypt, es thou goest towards Assyris." Their woollen tenta are pitched from "Sephar, a mount of the east," at the sochh-weatern extremity of Arahis, even unto the declivities of Persian Uplands. Their Nedjdee horses still chase the vild
ass, "gour," over the wildeot tracts of Arabia's hagar, "stone," desert: their dromedaries are precious at Cairo, Mecca, Aleppo, Bagded, and Irpaban. From them issued Mohammed; تhose Kordn is the monotheistic code of religious and moral law to above one bundred millions of mankind in Europe, Asis, Africa, sad India's islands: their tongue, "the pure Koriysh," for twelve centuries has been the envied ettininment of poets, biatorians, and philosophert, of their own exalted race, and of ita Arabisn contemporaries during consecutive generations.

By "Beni-Qahtan," sons of IKTN, we have hitherto implied the Jokfanides in general: but the grest Lribe in Arehis now calling jtself Beni-Kahtan claims the direct lineage of thls mon of EBR. They are traced in the Katanita, Kithelanita, and Kottabani, of Ptoiemy; the Katabeni of Dionysids; back to the Cattabames, Katabanem, of Eratosthenat in the third centary H. c. : While their enistence in Arabis is attested by the compiter of Xth Genesis many genemations anterior to the age of the Cyrenian geographer.

Fith the admirable tabulation of the "Settlements of Joktan," and the mape that Forster bas appended to his geography, the reader can verify for himself the accurtery of the following sohedule of IoKTaN's affiliations.ew

## "And IoKTaN engendered"

59. אלפודר - ALMUDD - 'almodad.'

The Allumacote, Almodaci, $2 \lambda \lambda \frac{0}{}$ atisral, of Ptolemy, a people of central Arubia Follx, represent ALMUDsD by general consentout
60. שלן - SLP - 'Sheleph.'

Ptolemy's Salapeni, Salupeni, the Oreek tradoporition of "Bens-SeLePk," sons of Smilapy, sre equally certain : now represented by the tribe of Medeyr 9 as
61. !inin - KhTsRMUTt - 'Hazarmaveth.'

Who, anecquajoted with corrupt Chaldee rocalizations, foisted in the sirth ceatary efler Christ upon the old Hebrew Text (under the name Maroretic peinta), woald see that the writer of Xth Genesis bere wrote Khadramaut the very neme which the Arahn atill give to their province of Hadramdut, or Khdtramet.

This neme, "in the Septuagint veraion, in written Sarmoth, the firat ayllable being dropped; by St. Jerome (a well-veraed Orientaliat), in the Volgate, written Ascrank; the article being incorporsted with the nsme, or the espirste omitted, confornably with the dinlect of the Nabathmans; by Pliny, Atramita, and Chatramorita; and by Ptolemy, Adramita, Chathramita, and Chatramotita or Cathramonita": no less than by 8 traho. "So Hadramaut" comments Forster upon Bochart, "js modalated into Hszarmoveth, meraly by the use of the diacrilic pointa, . . sn artifice," says this learned and reverend Orienialist, "allowedly, of recent and mbhinical invention."

The tribe and territory of Hadmabatr being fully identified in Xth Genesis; the only salient point of interest connected with ita tater hiatory, is the misaion - we fot low Mr. Plate - of a "prieat of Nagrane, the cepital of Chriatien Hadbramaur" to China, in the seventh century of our ers; whose srocesaful royege is attested by the hilinguar stone, in Chinese and Syriac (deted A. D. 782), disoovered at Si-Gan-Fi in 1625 ; thich inscription is repated to be geauine. 646
62. П'า' - IRKh - 'JERAG.'

This tribe of Arahia, under the Arabic title of Fareb-ben-Qahter, "Yrabson of Jontar;" or of Aboo-r-Yemern, "father of Yemea ;" Wes pointed out by Colides, upoa Arab anthority, as "Pater populoram Arabie Felicis ; primus Arsbice lingum anctor." Forster, continuing bis emendations of Boohsrt, states that IRKh "in the LXX, is Written 'Japdx (Jarach) ; by St. Jerome, lare; by the modern Aribz, Jerhä or Serki (pronoanced Jerchä, Serchà); and slso, as shbll presently he shown, Sherah or Sheradis

Serere or Zohran :" - s name thrice regibtered by Ptolemy, "in his Infula Jeacharorum, on the Arsbion Galf, S. of Djedda, and in his Vicus Jrachoornon, on the Lar or Zar river, in the vicinity of the Persian Gulf; a town and an islend bearing in common this proper name, although separsted from aach otber by a space of $15^{\circ}$, or more than one thonsend geographical miles ! "

It was Bochart's acaity, as our author honestly remarka, that restored Ptolemy's moog 'icpdyuy, previously rendered insula accipitrum, or "the Isle of Hewks," to its patriarchal origin ; inuwla Jerachaorum, i. e., "the island of the Deni Jerah." But this father of Europaen commentotors on Xth Genasis did more. He showed that the Aliluri of Agatharcides were identical, not merely with the tribe Beni-Milal of the Nubian geographer; bat also with Ptolemy's "jnsula Ierakiorum;" for the resson that Filal means "moon" in Arsbic, just as Jerahh does in Hebref,

Most successfolly does Forster exhibit the setllements of IeRaKh within "a vast triangle, formed by the mouth of the Zar river, on the Persian Gnlf; the town of Djar (the Zaaram reg. of Ptolemy) on the coast of the Hedjaz, twenty English miles gouth of Yembo; and the diatrict of Beni Jerah (part of the ancient Katabenia), or the sonthwestern angle of the peninsula, terminating at the Btraits of Bab-el-Mandeh;" and the prohebility that the great tribe, known as the Minai in clasatol geography, belonged to IeReKt-ian affistions, is also by-him perapicuonaly elncidsted. 5s:

## 68. Tרור - HDURM - 'Hadoram.'

By Fresnel this name is conaidered to be the same as ljourhoum; of whom Arsbisn tradition reckons an alder branch, the old Jorhamites, among extinch, and e younger, the Korsnic Jorhamites, among existing families. Jorhans is the "Arabum Hejazensism pater" of Pococke; and Bochart ssecciated the name with the Drimati of Pliny, and with Cape Corodamon; which last, by the facile trangposition of D for R, is Cape Hedoramus, or of HDURM. Volney accepts Adrama for their natural representative; confirmed by Forater in Hadrama : and thas, carried onwards through the clasaical Chatramis, Dacharamaice of Ptolemy, to the Dora and Dharra of Pling; they are perpetualed in the modern town and tribe of Dahra: at the same time that Ros-eb Had dow preserves one abbreviation of the name, and Bunder-Doray another - on the very promontory "Hadoramum" st the month of the Pergian Gulf. ${ }^{6 n}$

## 64. 'フik - AUZL — 'UzaL.'

The native Jewa of Sanaa, capital of Yemed, have abandantly borne witnesa that $A U Z a L$ was its ancient Arabian appellative, as, to thin dey, it is among themselves. The "Javan from ADZaL" of Ezekiel (xivii 19,) must be, therefore, as Folney and Forster unite in indicating, not Grecisn Sonia, but a town in Yemen, now called Dafan. Ocalia of Ptoleny, Ocila of Pliny, recogoizeble in the modern Cella; together with Ausara, a town of the Gebanita or Yemenites; are relics of AUZal long patent through the echolarship of Bochert.648

## 65. רקלקT-DKLH- 'Diklaн.'

In the Dulkheithe of Himyar, and the tribe Dhu-l-Kalaak of Yemen, Orientalists peretive this affitistion of Joktan; that, perhaps, has carried along with it some remambrance of an ante-historiosl sojourn on the Dikle, or Tigris : if, es Bochart suggested, its name have no effinity to nufhl, a "paim tree." eso

## 

Among nine names of existing Arth tribes identifed by Fregael with biblical appelLatives (after the rejection of more than forty of the latter as irrecognisable) Abil in one. But, it aeems more than probable that a brepch of these Jokuapides creased the
nerrow straity of Bab-ol-Mandob into Abybsinis, "Arsbia Trogloditiea;" and geve their patronymic $A \mathrm{UBaL}_{\text {, }}$ to the Aualiter Sinub, Abaliter emporium, Avalite, and perbaps $A$ doulite ( $D$ for B), on the African cosat of the Red Ses and Indien Ocean, recorded in classical geography. Volney sees them in Edreesea's Hobal; or in El-Hamzs's Obil, thst, with nise other tribes, succumbed, aboat 230 gears A. c., in Wars with Abdouat, Redowan, king of Persic, better known as the Gemanian And-gariz-Babegdn. ${ }^{851}$

## 67. אכימאל - ABIMAL - 'Abimakl.'

ABI-MAL, in Arabic, is "Father of MAL;" the meaning of which in eloo "posesssion of property;" in allasion, perhaps, to the mealth accraing to this tribo from thair occupancy of the myrrh, incense, balssm, and apice districts of Yemen.

They are the Mali of Theophrsetus, the Naticha of Ptoiemy; sarviving in the town Malai, or el-Kheyf; not far from the tomb of Mohemmed at Medefneh. 862

## 68.

The perplexities esaraing to ethnic geography from the presence of fow BBAs in tine book of Genesis, three of then in the Xth ohspter, have been set forth in our analyeis of the Hamitic Sabs of Himyer [uhi supra, p. 498]: nor is it possible to escape from confounding this Joktanide's properties with some of thoee that appertain to the former's inheritance.

Nothing daunted, Forater says, "the Joktanite Sheba gave its origin, and his own name, to the primeral and renowned kingdom of the Sabaiens of Yemen." Perbape he did. Possihly the Cushite BaBA may have done so befora him. "Quien esbe?" Nevertheless, "the concurrent teatimonies of Eratosthones, Dionysins Periegotech Priscian, Festus Avienos, and others of the anciente," collected by Bookert, plece the Sabcans hetween the Minasi and the Katabeni, at S S ba end Hfareb: Whilgt the potice by Ab00'l-Feda that "Mareb wes inhebited by the Beni-Kahian," or Joktanide, really favors our author's somewhat peremptory identifiantion of this SBA. ${ }^{69}$

## 69. אופר - ADPR --. 'OpEin.'

A volume would not snffice to dieplay the aberrations of intalligence printed on thin name! Some are exposed in Kitho and in Anthon.

Monk very properly cats short diecusoion by reminding thoee who see Oplis at Medagascar, Malaces, or Pera, that the writer of Nth Genesir places AUPR in the midst of the Arsbian Joktonide: Which doctrine Volney had previously sustained, nnd aupported by rigorons researches that identified it with the ruined site of Ophor on the Persian Gulp.

Bochart and Michmlis held the same judicions views; apd Forster has left nothing more to he desired; by proring, onoe for all, that Ofor, a town and dintrict of 0men, is the true $\triangle \mathrm{UPhiR}$ of the Old Testament - that Pliny's "littus Hemmmum nbi adi metalli" is the trae Gold Coast of Solomon's expeditions - and that the whole of them are comprehended within the domains of the Joktanida.en
70. חוילה - KhULLH—'Havilanl.'

Our prefatory remarke on ASUR, and its ante-diluvian existeact, spply with eqeal foree to that " laad of Bruilah where (there is) gold," which, an universal Flood notFithstanding, now reappears exsotly where it stood, anteflavially, on the gold-eand of Arsbia.

We are not free, either, from chances of error in attributing to the present KhUILH :the Joktanide effiliation of Shem) some possessions that mey beve belonged to hir namesake, KhULLH the Curhite.

However, the Nubian geographer indicaled to Boohart (father of genesiacal geoETrphers) the country of Chaulan in Arabia Pelix; and Forster, with propriety selects the province of Khaul, sonth-east of Satnea (Uzal); site of Pliny's tribe of Gagulata; now inhabited by the Beni-Knolin. Its topography, moreover, in the immediste proximity of Omanite gold regions, atistes the mineralogict exigends of the prediluvian
 a preliminary step towsrds pracision, hy Volney.at

## 71.

The Jobaretai of Ptolemy, through the ready change of the Greek $b$ into the Latin r, by a minteke of copyists, revealed themselves to Bochart as the Jobativa of Xth Genesis. But, "the flexible gening of the Arabio idiom" buffices to explain sach difference of pronunciation; and Forater trinmphandy points out "the Iabarita of Ptolemy, in Beni-Jossab, the actual name of a tribe or district, in the conntry of the Beni-Kahtan, soutineest of Beisbe, or Beisath Joktan, in the direotion of MAreb; and the original, or Bcriptural form of this dame, in Beni-Jonor or Jobab, the existing denomination of a tribe and district situnted io the ancient Kalabanis, balf-way between Banas and Zebid" - Katabania being the Greek lnversion of Beni-Qahedn, the old Jompanids. "All these are sons of Joktan;" wrote the vererable compiler of this preciorte ethnic ehart, Xth Geneale, above 2500 yeard ago. ${ }^{\text {eso }}$

We have shown that every name (but NIMROD's, which is mythological) in the Xth chapter of Gesesis, excepting those of Noar and "Bhem, Ham, and Jnpheth," is a personification of countrie, nations, tribes, or cities: - that there is not a single "man" among the aapenty-nine cogtomina hitherto examined. [N. B. The nomber. 79 is obtained by adding the 8 eitiv, founded by Nimrod, to the 71 names sbove enumerated.]

Abundent instances are patent, even in king James's vercion, wbere Istabl, or Jacob, is pat for all the Jecish community; and eo ASUR, for exemple, means Asyria in such pasgages ns "ASUB shall come es a tortent; ASUR shall arise like a conflagration; Jshovan Fill reise up ASUR against Hoab, against Ammon, against Judah, against Irrael." Now, none will suppose that Asur, Moab, Ammon, or Iorad, are individuale, human beinga it is evident that these are collective asmes, employed according to the genlus of Oriental minde and tongues. And upon whose anthority, let us ask, must we modern foreiguers offend the spirit of old Oriental Writers (apart from common sense itself), in order to find men in the seventy-nine ethnioo-geographical appellstives of Xth Genesin ?

That in some instances, the name of an ante-bistorical founder of a nation bea beed perpetasted by the astion itself, no one denieb. Classical history teema with anoh; a g. Hinlas for the Hellenes; Dorda for the Dorians; Lroes for the Lydians; bat they are, in gaberal, about as bistorical as Arergis of the Arabs; whom the Saracens made the "Yither of Africa," after they had learned the Latin game of this contineat! In most casea, however, the nation or tribe invented a founder; to whom they grve the name of the country they bappened to ocoupy: nor does archenology conced to the Hehrews any exemption from this onivertal lat, merely for the sake of conformity to time-honored caprice.
But, if eeventy-eight of the seventy-nine names in Xth Genesis are those of countria. nations, tribes, or cities; sach is not the case with four others, cstalogued as the parental N\&Kh, Noan, and his thee sons BheM, KhaM, and IaPhe'Th.

Our obeorvations on these names limit themselves to gasaing, es nearly we weon, whit may bave been meant by the mriter of Xth Gecesis.
lat NaKh - (Noab), or NUKh, in Hebrew laxicona, among its varions meanings, sigaifes Repose and also Cespation. We plece the word "OBscdratr" beaenth it on our Gemealogical Tablean. To the chorogrepher of Xth Geneala thla name NKh
symbolized, probably, a point of time so remote from his own day that he casad to inquire farther; and reposed from his laborn in blissfol ignoranoe, after biving eomprebended the renity of buman efforta to pierte that primordial gloom. If be did ooh wo do: and with the less regret, because an expounder (who anys he tnowe all ebont it) can be met with at every street-oorner.
2d. From the unknown, then, in the sapposed ides of a Chaldrenn witer, proceeded three grand divisiont of mankind; already distributed, at the age of the compiation of Xt Genesis, each one "aftor bis tongue, in their lands, after their nations." It beenme necesasy, for his chorographic and ethnic objects, to clanaify them. He ear thry Were appacently divided into thrse cuticalar colors; just as the Egyplins befort him had perceived the same thing, when they clamaified three, of the four hamen rarieties knom to them, by the colors red, yellow, and white
3d. He gave to them, or adopted through preceding traditions, the three named "SLeM KhaM and LsPhor $t^{\prime \prime}$; and called the nations within his horizon of knovledge by then terme, a moch for convedience sake, an on account of their several and probabla tinguiatio, physioiogianl, geographical, and traditionary relationghip to ouch other. The meaning which be attuched to enoh of these proper namea in utterly unknown; bat modern lexicography specalaten apon their aooeptation as follows: -
A. KhaM is the ancient name of Egypt; centre point of the popalations which the wriar of Xth Gevesis clasaifed as BeNI-KhsM, "sons of Ham;" and which Wo call Batitic. In Hebrew, KhN means hot : but, in Arsbio, while HaM bes the same wocele tion, KhiM signifies dark, ssarthy: perfectly applicable to the peoples that this name embraces in Xth Genesis. The Egyptiana derignated themselves as the rad race ; wherefore, for Hamitic types, wo sdopt the red color.
B. 8heM, in Hebrew, meens nama "par excellence." It is also supposed to poseest the senes of left hand, in contrast to Yemen, the right; bat this seems to be an "ex post facto" Arsbian commeatary. The Egyptinns alwas gave shades of yelloy to Shemitiah races, in accordance with their cuticular color; and we adopt it for our clessiffestion.
C. IsPheTh. Such rahbinital explanations as "the man of the opening of the leat" belong to the domain of fable.

Laprics, son of Calua and Terra, wea the Titanic progenitor of Greeks in their ente-historical MUTHOI; the "audsx genus Iapeti" in a aymbolical periphrain for whito races; and an encient Greek proverb, row Iazcrot zpeabortpes, "el der than Iapeias," indiontes that the sense in which Grecians need it correeponds to our saying "oldar then $\Delta$ dam." It is not impossible that the mriter of Xth Genegis, in his anxiety to disoover an encestor for whits families, asked some Greek traveller, who replied "Iersros." To ourselves, as anciently to the Egyptiens, theso families are white.
Fe conclude in the langogeg of D'Avezac - "Far from admitting that Generis wished to make all the ramlications of the great human family deacend from the unique None, we woald voluntarily sustain the thesis, that the geneaiscal miter only wiuhed to designats the three great branches of white races, individualized for us in the three types Greek, Egyptian, and Syriac; whose respective traditions have pregeryed athwart ages, at an indelible teatimony of the veracity of Moses [or, only of that of the unknamin uriter of Xth Genesis], the names of Japheth, of Fam, and of Shem: hut without entering digres nionally into a question so vast, ?et us hasten to say that, to our eyes, the Bihlical texts aro very disinterestod upon any doubts arding from that [doobt] as to the unity or multiplicity nf epeelea in the human genas."

Section B.-Observations on ter annexbd Genealogical Tablead of the "Sons of Noab."

So far as the authors' reading enables them to judge, here, for the first time since X th Genesis was composed, are tahulated, in a true genealogical form, all the ethnic and geographical names contained in that ancient document.

After the foregoing analysis of each name under Section $A_{1}$, the reader requires no prolix remarks to perceive the utility of our Tahleau; which, at a glance, exhibits Father NuKh (Noah), and his three Sons - his Grandsons, Great-grandsons, Great-great-grandsons, Great-great-great-grandsons, and Great-great-great-great-grandsons, according to their natural order. In this manner (the geography of the Hehrew Text being, once for all, defined,) it is to be hoped that science will he relieved from further discussion of main principles, whatever may be the light which future Oriental researches cannot fail to shed upon details.
Each Name is first displayed in the "square-letter" of the Hebrew Text, without the Masoretic points. Below it, in "Roman" capitals, is placed the conjectural vocalization of our modern, and colloquial, Engligh imitation of ancient foreign words. Beneath is put, in "Italics," the spelling of each name as printed in king James's version. This is followed, in "Gothic" letters, with the geographical attrihution of the several cognomina, conformahly to the results attained through our Section $A$. And finally, under every one, in common "Roman" type, is represented the probahle country, nation, tribe, city, citizen, and personage historical or mythic, to which the authors' studies aseribe each name.

> "Humanum eat errare."

[^140]2 Ingap-0nes. These entrioed the Cimbri, the Teutones, and the "Chaneoram gemes;" inhabiting weat and north-weat Germany.
8. Satav-ones - an the Fiadili of Pliny, incladed the Bargandionea, Varini, Cerini, and Gutlones. Their plece was norlhtestern Germany.
For our purpose of simple jllastration, it is not easential to detal the geographieal herritories anigned to these names; whioh, matilated and corrupted by Roman orihography, preserve es littlo relation to an ancient Geman pronanciation at the Indo-Germanic names of GoMoR, MaGUO, \&o., do in our authorized verion atter pasting through Hebraw transeriptions, Beptuagint corruptions, and the fsbolous vacalinations of Jevish Rabbis of the Mesora. What we aro driving efter becomes evident at onee, 00 soor an wo tabulate the genealogy of these tribes as we have done that of those in Xth Genesia.


It would be elsy to carry thin method of illustration, which classifies the mythical, the geograpbicsl, and the patronymic personifications of nations in their true bistorical order, through the traditions of different reces all over the world. We content ourtelvea by indicating to follow-stadenta the atility ot a simple process that has solved many a "receta questio" encountered in our personal reacorches: espeoinlly when stadying the Percian genealogies of Firdocsi's Shah-Nameh; as we hope to show elsewhere. - Q. R. G.]

## Section C.-Observations on the accompanying "Map of the World."

1st. The parts in black indicate what the writer of Xth Genesis knew not: those shaded represent where his knowledge decreases; it being unfair, no less than impossible, to define his information by a sharp line. Other explanations are given on the Map itself.
2d. The great alleration, which our results superinduce, is the prolongation of his geographical knowledge (hitherto unsuspected) along the wholc of Barbary, hetween the Mediterranean Sea and the Sahara desert. Former African delusions are curtailed at the First Cataract, Syene; southern extremity of the Egyptians, MiTsRIM, proper. The compiler of Xth Genesis knew nothing of "Ethiopia" above; nor is any austral land beyond Egypt mentioned by a single writer in the Old Testament; because Chub (Ezek. xxx. 5), GUB, conjectured by Bunsea, after Ewald, to be aNUB, Nubia, is an unnecessary effort when we can identify it with the Barbaresque Cobii of Ptolemy tho geographer [̈upra, p. 515].

MAP OF THE WORLD.
on Merrator's projection, echibiting the COUNTRIES more or less known to the ancient Writer of 10th GENESTS.


3d. The const of Abyssinia is dotted red and yellow, becauso some KUShiles, besides the Joktanide, ûUBaL, may have crossed the Red Sen. The latter lent his name to the Avalites Sinus, \&c., on the African continent.

Section D.-Thr Xth Chaptrr of Geneeis modernized, in its Nomenclatube, to dibplay, popelarly and in modebn Enalish, the meanino of its ancient Whiter.

## Veres

1 Now these (are) the ThoLDTt-BNI-NuKh, (generationg of the sond of Crsastion); BheM gallow races, KhaM awarthy races, and IaPeTt white
2 races: anto them (Fers) sons efer the delage.* (The) affliations of IaPeTt White reces; - Crimes = GoMeR, and Cenoasus=MaGDG, and Medis $=\mathrm{MeDI}$, and Ionia $=$ IUN, and Pontas $=$ TtaBal, and Moschia $=$
8 MeSheK, ad Thrace $=$ TiARag. And (the) afllations of Crimes $=$ OoMeR;-Enxine = ASKiNaZ, and Papblagonia = RIPhatt, and Armenia
$4=$ TtoGaRMaH. And (the) affiations of Ionia $=10 N ;-M o r e s=A L I B a H$, ad Tarsons $=$ TaRBIS, Cypriots $==$ KiTtiM, and Rhodiane $=$ RoDnNIM.
5 By these were dispersed the retalements of He-GOIM the (white barbarian) bordes in thair lends; overy ode after his tongue, after their famities, in their
6 natione And (the) effiliations of Kham 8 warthy races; Dark Arabiaf $=$ KU8h, and Egyptians = MiTsRIM, and Barbary $=$ PhDTh, sad Canasa =
 and Beai-Khalad = KhaUILaH, and Saphtha-metropolla = SaBTtaH, and Rnmsa = RAAMaH, ad Eabstice-regio = EsBTisEA: and (the) affiliations
8 of Romba = RaAMsH; Marausba $=S h e B A$, snd Dadona $=$ DeDaN. And Dark Arsbis =KUSh engendered (the Asegrisn Herculesi)=NeM-RuD,
9 ho first began to be mighty opon earth. He was a great landed-proprietor before (the fuce of) IeHOusH; whence the anying, like NeM-RuD, (s) great
10 kanded-proprictor befofe (the face of) IeHOusH. $\ddagger$ And (the) commencement of his realm, Bahylon= BaBeL, and Erech $=A R o K$, and Aooad $=A K a D$, and
11 Cbalne = KaLNe日 in the lend of Mesopotamis = BhiNaAR Out of that land he (Nimrod) went forlh [to] Assyria =ASADR, and boided Nineveh $=$
12 NINUeH, and Fohoboth-Lion = ReKhoBoti-AIR, and Calah= KaLaKh, and Resen $=$ ReSeN between Ninoveh $=$ NINUeH and botween Calab = KaLaKh
18 (be) she (Nineveb?) the grant city). And (the) Egyptimos 二 MiTsRIM engendered the Ait-Oloti = LUDIM, and the Ammonians $=\hat{A N a M I M}$, and the Libyens
14 = LeHsBIM, and the Nofousehb=NiPhaiTtuKhiM, -and the Pherusii $=$ PhaTtaRiSIM, and the ghillouhe $\leftrightharpoons$ KShiLouEhIM out of mhom issued

[^141] affiliations; the name of one (was) (s) Split = PeLect (because in his degs the enrth wen split), and (the) pame of bis brother (was) Joktan = IoKTaN.
20 And Joxten $=$ IoKTaN engandered (the) Allumaeotap =ALMUDaD, and (the) Salapeni $=$ SheLePh, and Hedramàut $=$ KhaTssiaMOTt, and (the) Jera-
27 chmi $=$ IeRaKh, and (Cape) HadorsmumF HaDURaM, and Sands=
28 AUZAL, and (the) Dhu'-1-Kaldahsin DiKLeH, And (the) Abalitw = fUBaL,
29 and Malai (el-Kbyef) =ABlMAL, and Sabe (Mareb) = 8aBA, and Ofor

30 All theme (aro) afficiation of [Qaftdn] Joktan $\quad$ IoKTaN; - and their dweling (mas) from Zamon Moos= MeShA, towards Monnt Zaffar= BePataral. 81 mountain of the Esat (or mountain opposite7)." These (are) (the) affintions of BheM yellow races, after their famlliea, after their toggues, in their lands,
82 after their nationa. Bach (sro the) families of (the) onn of Cassation $=\mathrm{NaXh}$, efter their generationg, in their netions; and from these wort digpersed He-GOM = tbebordee (the peoples) on the earth after the deluge.
(Here ende the document.)

The authors cannot but hope, after the ovidences herein eccumuleted, that the impartiel reader now agrees rith them and with Rosellini, that "la serie dei notai de' discendenti di NoA à una vert ricenzione geograßcs' delle vario parti delle terra;" wo far the world's surface was known to the writer of Xth Genesis.

Yiewed by ltaelf, as a docament from all others distinot, incorpurated by the Esdraid sohool into the canonical Hebrev writings, Xth Genesis ia simply en etheic chorogroph: Wherein three "Types of Mankind," generically slaasitied as the red, yeilow, and white, are mapped out-"after their families, after their tongues, in their countries, in thair

[^142]nations." In every inslance phere monumental or writien history has ensbied ue to check the writer's system, his nccuracy has been vindicated. In not a fer ceses exactitudes, so minute as to be relatively marvellous, have been exhihited.

Our genealogical table displays the order in which this compiler anpposed the different colonies, or affiliations, iseued from each of the three parental stems. Our retranslation of Xth Gedesis, by aubstituting, as far as possible, modern names for the same nations and countries, han ensbled as to comprehend his iteral meaning more clearly than Fhen reading Hebracnl appellatives now mostly obsolete, no less than veiled by an ancient and foreiga mode of spelling them. And lastly, our transfer and redistribation of these seventy-nine cognomina, in a map, fix, witbin a few degrees of latitude and longitade, the boundery of this writer's geographical circumference; and tbus indicate the horison, so to esy, of all the knowledge his "gexetteer" containg

Learned and orthodory works have frequently defined this geogrephy before; and with limitationg of area quite as restricted as ours, an regards the sum total of terrestrial super-Acies- Because, if we heve cat off, as not alladed to in Xth Oenesis, the whole of Nubia above Egypt, and all Africs lying south of the northers limit of the Sahers deserth, our map, on the other band, prolongs the writer's knowiedge through Jarbary, from Egypt to the Pillers of Hercules. Thus, upon the whole, our restoration is more extengive than that of Volaey.

No savant whose opinion is worthy of respectful attention, but exclades all knowledge, on the part of the writer of Xth Generis, of any portion of Europe, except the coasts of the Pelopornesus and of Thracis. All reasonsble commentators, by cutting off "Scythis" et a line, drawn from the northeastern epex of the Black Sea to the Caspian, deny that Xth Genecis includes Russian Asia; while nons extend the geography of that document beyond s line drawn from the Caspian Sea to the month of the Indus, as an extrome; a frontier, to our view, quite unjustifinble, bad by far too distant from a Chaldaan centrepoint

In consequence, we all agree that Hindostan and its mixed populations; China with her immense Mongol and Tartar hordes; and the Islanda of the Indian Ocean; are entirely excluded from Xth Gepesis. The landa of Malayana, Oceanica, Australasis, and the Pacific, bsting been discovered within the last three centuries, were of coarse unknown to the school of Eadres tweaty-three hundred years ago. So was also the "Now World;"-the rent American continent and ita Islands, prior to the royages of Columbus, and bis buocescors. The most rigid orthodoxy, therefore, concedes that, upon Finnish, Samoide, Tongowian, Tarlar, Mongol, Malay, Polynesian, Esquinaux, American, and meny other races, the writer of Xth Genesis is absolutely silent; that, every one of these peoplea lay very far beyond the atmost ares demonstrable through his chorography.

Nothing " beretical," thea, accrues from our simple demonstration of the trath of that which the educated of all Christondom now-a-dajs insist upon.

Bat, the orthedox will even allow itlle more. Beginaing at the Cape of Good Hope, they rill admit, that the compiler of Xth Geneais does not embrace that region, nor its inhebitents, the Bagjermans, Hottentots, Kaffres, and Foolahs, in this ethbio geogrephy. They will voluntarily renounce also, in the name of this genesiacal writer, sequaintauce with any part of Africh mere austral than a line drawn athwert ite continent from Senegal on the western to Cape Gardafui on the eastern or Abyasinian cobst. Thus much, we opine, no one "nisi imperitus" can hesitale to grant.

Upon reflection, in riew of the impassabilities of the immense Babare desert (first, geolegicslly, when it wes an inland tea; and secondly, roologieally, antil the camed was introduced and propagated in Barbary, afler the first oentury, s. c.), al? acholars, we preaume, will eoincide with our limitation; and, by way of compensation for the additional knowledge Which our analyses bave secured for the author of Xth Gepegis, along Berberia, Berbery. they will not insist opon his acquantance with anything sonth of the northern edge of the Sahara:-, the oares of Seewah, El-Khárgheh, \&c., remsining, between orthodox readinge ad ours, "sub jadice."

So far, to jadge by pablished commentaries, there no insurmountable obstecles to hermony between the most catholic interpreter of Xth Genesis and oorselves. "Nos advaradires" will now fairly confese that the battle-ground, apon which their and our opinions have to be fooght, lies on a miserable strip of the Mik's deposits; along the countries we term, in common, the Nubias.

Yet, even here, reasonable persone-those who have of their own accord, and for the sake of truth, alresdy abandoned the Tchoudes, Finns, Samoiddes, Tongousians, Tartars, Mowgoh, Malaya, Polynesions, Enquimauz, American-aborigines, Hottentots, Boyjesmans, Koffre, Foolahs, Senegalians, Alywimions, the Sahsra demert, \&o., \&e., wat not fucluded in Xth Gen-esis-Euch rensonable persons, we tbink, cannot mate out, legally, s "casus belli" betreen our regults and their individual preconceptions, apon matters so pitifal in geogrephy as the Nubias.

They have read oar analygia of KUSh. They have geen every affilistion of KUSA setled In Arabia. Now, if every affiliation of KUSh in Xth Genesia he Arabian, why must we seok for these KUSh-iten elsowhere? Indeed, if we both agree in clessification, neither party has any other genesiacal nomes to dispate abont.

KUSh and its affiliations being irrevocably determined in Arabia, and proved to have been geaerally of the IIImyar-red stock, it would be as shsurd to look for them in Nabis as on the Caucasian mountains. We know that until the XIIth and perhape the XIth dynasty, the boundary of the MTsRum, Egyptians, was the 1st Catarect of Syens: and inagmuch as the Nubiar were then litule known to Egyptians, they were undouhtedly far less known to Asistics.

Consequeally, there was a time phen $N u b i a$ herself was a "terra incogaita" We have only to continue this Asiatio ignorance of Africs for a few centaries, and every one will allow that there is no improbability involved in the assertion that the Nubias were anrevealed to the compiler of Xth Genesia at Jerusalem, or at Bebylod. His map proves that they were so; and, thas far, digeqasion is at an end.

With the $N^{\prime} u$ biac vanishee the last pobsibility that Negra races were known to the writer of Xth Genesis. He never mentions them; nor indeed does any other writer in the canonicsl Scriptures, from Geneair to Malachi.

Nigroes are, therefore, excluded from mention in the Old Testament; together with Finne, Uralians, Mongols, Tartars, Malayr, Polynerians, Enquimoux, Americon-Indiens, Ec., Ec. The map of Xth Genesis, under the beads "Shem, Ham, and Japheth," merely covers those families of mankind classified by the Egyptims, in the days of Setrin-Merertios, 15th-16th centories a. c., into the gellow, the red, and the white human typer.

Such is our conclusion. Science and reason oonfirm it. Xth Genesis proves it. Nererthelese, few persons heyond the circle of education exempt from ecclesisstical prejadiee, will, for some lime to come, accept thie result! Why?
[Our manuacriptr comprise critisal anawers to this query viewed in all its bearingo apon the Ante-Dilutian Patriarcha, and upon the two pedigrees of Et. Jobsph recorded in Hatthow and Luke. Inasmuch, however, as their production here would necessitate a second volume to this work, we postpone their puhlication; remembering St. Pad's asge admonfehments to Timothy and to Titus - " not to give heed to fables and endless genealogiea" —"hut avoid foolish questions and genealogies." (17im, i. 4; Titu iii. 9: Bherpe's Nre Tatamert. "translated from Grieabech's TeIt;" London, 1844, pp. 880, 892-8). - G. R. G.]

## CHAPTER XV.

## BIBLICAL ETHNOGRAPHY.

## Section $E$.-Terms, univerbal and aprcifio.

There is nothing in the language of the Bible which illustrates more strongly the danger of a too rigid enforcement of literal construction than the very loose manner in which universal terms are employed. Those who have studied the phraseology of Scripture need not he told that these terms are used to signify only a very large amount in number or quantity. All, every one, the whole, and such like expreasione, are often used to denote a great many, or a large portion, \&c. Examples may he found on almost every page of the Old Testament, but we will first select a few from the many scattered through the New. And we beg the reader to bear in mind the fact already established, viz., that neither the writers of the Old or New Testament knew anything of the geography of the earth much heyond the limits of the Roman empire, nor had they any idea of the spheroidal shape of the globe. Be it noted also that, in order to avoid the mistakes of the English adtiohized version, our quotations are borrowed from Sharpe's New Testament as closest to the original Greek.

In the account given by Matthex (iv. 8, 9) of the temptation of Christ, we have these words:

[^143]Before accepting such words as "all the kingdoms of the world" in a literal sense, it may be well to peruse the commentary of Strauss, in his Life of Jesua:-
"Bat that which is the vertable stambling-block, is the pergonal apparition of the Devil with his temptations. If eren there cond be a personal Deril, 'tis said, he eannot appaar Fisibly; and, if oven he could, be would not have behsved himself as our Gospels reconot it. . . . The three temptations are operated in three difforont pleces, and oven far spart. It is asked, how Jesus passed with the Devil from one to the other? . . The expressions, the Deail tabes him, . . . places him, in Matthew - the oxpressions, fetching, he conducted, he placed, in Lute, indicate incontestably a dieplacement operated by the Devil himself; farthermore, Luke (iv. 6) saying that the Devil showed Jeans 'all the kingdoms of the world in a moment of time;' this trait indicates something magical. . . . Where is the monntain from the summit of which one can discover all the kingdoms of the earth ! Bome interpreters reply that by the corld, cosmos, one must underatand Palestine only, sad by the kingdoord,
basilimais, the isolated provinces and the tetrarchies of that conntry: a reply which is not less ridiculous than the explanation of those who asy that the Deril abowed to Jeeus the world on a geographical map." 68

In reference to these diabolical powers we may also be permitted to rejoice with our readers over the following fact, recently announced hy the Rev. John Oxles (Rector of Molesworth, Hants, England) in his "Letters to the Lord Archbishop of Canterbury :"-
"In the Chranicon Syriacum of Bar Hebrans, we have it duly reoorded, that, in the year of the Hegirn 455, or of onr Lord 1068, certain Curdean hontors, in the deaert, brought a report into Bagdad; bow that, as they were hanting in the desert, they sem biack tenta, with the voice of lomentation, weeping, and yeling; that, on their Approsching them, they heard a voice saying: 'To-day died Berizrbub, the Prince of the Devils; add every place Where there is not ismentation for thres days, we will erase from its very foundation.' . . Hence it is apparent, even on the induhitahle tentimony of the devils themselven, that Beelrebab, the Prince of the Devila, died s natural death, nearly eight hundred years ago; and was lamented and bewailed, with all due honors, hy the municipal anthorities of Bagdad, Mosul, and other cities in the land of Senar. There, then, lot his mortal remains peaceably reat, nevor more to be disturbed, in the fature, by boman eariosity."e-

We have a repetition of the previous passage in Luke, which should probably be taken in a figurative or allegorical sense; for although the evangelists had little idea of the extent or the shape of the earth, yet it cannot be maintained that Jesus or the devil wore so ignorant as to suppose that a view of the world could be greatly extended hy ascending a mountain. If we could take this language in a literal sense, it would at once settle the question as to the amount of geographical and ethnological knowledge of the evangelists. Here are some more instances of "universal terms" used loosely in a vague or general sense:-
(Hat, xii 42) -"The queen of the South . . . . oume from the onde of the earth to tear the risdom of Solomon."
(Luke if. 1) -"And it came to pass in those days that a decrea went forth from Cesear Augustus that all the world should be regirtared."
(John xi. 25 ) - "And there sre also many other thinga which Jesua did, which if they should be written one hy one, I do not think that the corld itrelf wonld contain the -ritten books.
(Acts ii. 5) - "And there were dwelling in Jeruselem Jews, devout men, from eorry maction under heaven."
(Act xiii. 47 - guoting Iaaiah xlix. 6) - "I bsve set thee to be a light of the Gentilea, that thou shouldest be for ealvation to the ende of the earth."
(Rom. 3.18 -quoting $P_{f .}$ rix, 4)-" Yes, verily, their sound mant into all the earth, and their words unto the erde of the world."

These examples will be quite sufficient to show the manner in which "universal terms" were used, and the necessity for measuring their extent by a proper standard. We now present a remarkable text, and the only one in the New Testament which alludes directly to the dogma of unity of races.
(Aets xrij. 26) - "And [ Oodi] bsth made of one blood all notions of men to dwall on all the face of the eath, and hath determined the appointed sensons, and the bounta of their habitation." It will be noted that this eaying of Paol is not antographed in bis Epioties; bat, as Hennell critically ennotaten, "resta mainly on the testimony of the antior of Aeth, who himeelf intimatea that he is the same as the author of the third Gospel." ${ }^{\text {orl }}$

Now, can any reason be assigned why a widor signification should be given to "univereal terms" here than in the previous examples? Have we not seen, too, in the quotation just preceding this, the loose manner in which the same writer (St. Paul) uses such terms? Should not this paragrapb, also, deserve the less credit, inasmuch as it has no parallel? It should be rememhered that when St. Paul stood upon Mars's Hill and preached to the men of Athens, his knowledge of nations and of races did not extend beyond that of his hearers; and the expression, "hath made of one blood all nations of men," was certainly meant to apply only to those nations about which he was informed; that is, merely the Roman Empire.

Leaving the New Testament we take up the Old, and such parsages as these mect our eye:--
(1 Kings, xviii 10) - As " LeHOnsH thy God liveth [mast eacred form of Jewish oath], there is no nation or kingdom, whither my Lord hath not sent to seek thee; and when they said, 'He is not there'' he took an oath [a certifipate] of the kingdom, that they found thee not." If this text were to be taken literally, Obediah's most solemn efflavit is here given that Ahab's emisgaries had rigited China, Norway, Peru, Congo,-in ahort, circumnsrigsted the whole globe, benidea traveraing it in every direction, during the tenth century B. c., in quest of Elijuh!
(1 Kingr, x. 24) - "And all the earth songht the face of Soloman, to hear his wisdom." Is this to be ecoepted orrbatim et liferatimy Muat no allowance for pootio tioense be made, When David nays, - "And the channols of the ren appeared, the foundations of the world vare dicooved" (2 Sam. xiii 16).

Receding to previons chapters (unst is, not Written during earlier agen, but merely bound yp in books placed anteriorly to Kinga and Samuel in the present order of srrangement), We come to-"And now KuL-HAReTs (the WHOLE earth) was of one Lip and of DeBeRIM AKhaDIM." - The lati two words, plarals in Hebrev, asnnot be literally rendered into English, as ores ecords; but the senee is "one langage."

The whole context refers to an idee purily Chaldaan, and to a preternstoral event exeluaively Babylonilk; viz., the city and the towor of BaBeL, whlah IeHOusH "deacended to bee " after they were brilh. The two things, tower and aity, are inseparable; and we peroeive that the poople "esased to build the aify," after they were "diepersed thence over the face of the wholi narti."
(Om. xi. 1) - "On that acconnt it was called BeBel, becsase IoHOusH there BeLeL (confounded) the lip (rpeech) of the mole babtr." The root BLL means to mingle, to talk-gibborish; and, oonformably to the favorite genins of Semitio d scription, the writer evails himself of a play opon word5-i. e., really "perpetrates a pun "-beeanse the movosyllahic etymon of BeBeL, itsel? menning "confusion," is the same as that of BekeL.-We might say in English, "Babri-babble," and thus reslise part of the alliteration of BaBeLBeLel, while loeing helf its double entendre; bocenge, BaBeL does not mean in Englibh what it doee in Bemitish idioms, viz., "gibberish" as well as confofion. Another mode of conveying an ides of thia play upon words would be, to tranglate BeBeL-BoLeL by "higgledy-
piggledy." Poor, drang, and mistimed though soch jootlerity may soem to un, and inoonsonant with the sanotity of the volume in whioh it is now found, neverihelese, so Orientalist will dispute the mssention, that simitar retures, or riddles, ere the delighs of Enatern marratora; ${ }^{* 0}$ while, by the Talmadic Rabhis, this pan was suppoed to cover arfal mystories. Fow persons aro strars that, as the Tert asya nothing aboat the denruction of either city or tower, theologians derive their notions in this respeot, not from the Bibie, hut from the spurious and modern teles of Hestiaus, of Polyhistor, of Bupolemus, and of the "Sihylline Oracles." The clenaioal texts may be fouvd in Corg's Anciant Pragmate.

The reader, who has comprebended the principles of critiosm, establinhed further in in the Archasological Introduction to Xuh Generis, can now eoise the hirtorioal nalue of thin doenment (Gien. xi. 1-9) in atmoment

Ist. It has no canneotion with what precedes or succeeds it; bat breaks in, paremthetically, hetween what is now printed as the 82 d veree of Chap. X. and the 10 th of Chap. XI. : its apparent relalion to either originating solely through modern, arbitrery, and therofore onauthorised, divisions into ehapters and versea.
2d. Age and zuthorahip anknown, its antiquity annot abeend beyond the serenth-eighth centary 日. 0 ., becsuse its divine ascriptions are Jehovistic; nor could it well have been embodied into the book called "Genesis," earlier than about e. c. 420, by the Erdraic School ; because, the mention of "the land of Shinar"-of " orick they had for stone (or rather L-ABNi, far building) and bitumen they hed for mortar" 60 of the "crity;therefore the name of it Fen BaBeL (Babylon) "-carries us at once to plains betwen the Shinar hills and the Eopbrates-river; to the bricks of Chaldean mounds; to the bitaminaus spriags of Mit (Hit of Herodotas, and hieroglyphic IS); ${ }^{\text {an }}$ and to the Bebylon of Nebuchadnezzar; than mom, although the name of a plece called BEL is as old as Thotmes III. of the XVIIIth Thebsen dynesty, $1600-1600$ e. c., nothing ametrform yet found at Bebylon is anterior ass
 or their Mongol derivative, the Otcoman "Sublime Porte"), may have with this neme's origin: "Whether Belue the tiog; Baal the god; or "Bel and the dragon;" are to bo taken into consdoration: 一 theso curious inquirles, if familiar to our atedies, aro foreign to our present parposes and objeots. But, "in sober asdnese" let ns ask $\rightarrow$ Can euch words as KuL-He-AheTs (the whole earth) bo wocepted, by etboologieal soience in the ninateonth contury, when contained in such an mhintorieni documan? At any rate, "Typea of Mankind" must respeotfolly leave them aside.

> "Idal dee infellx, Nil remapobla ad amoan bole, carens et foce!"

The ignorant of allreces and agts, eqpecislly inland-poptrations ouch as the Jews wert When a foreign tongue atriken their enricular nerres, do not suppoes that the speaker is uttering sense, but bolieve that he is meroly exeroising his vool masclea inatinctively, in the anme manner that geese "talk" The writer of Hathese is not free from this illasion; because, where oar authorixed mistraniation has "Uae not vain repetitions, th the Eenthea do;" the origingl Greck reads -.. "And when ye pray, babble not as the heathen do " (Met. i. $7:$-Sharpe, N. T., p. 10). In the ides of the Hebrews, rouched for, eceording to Do Sola, even by auch mighty commentators an Reahi and Mendelesohn, en the "One language" at Bobel was merely the " lingne asacta;" that is to asy, ell mankind there talked Hebrev st lirst; hut (after the diapersion thence, when their apeech wan "confounded"), only SEgn'a sone miraculonsiy preserved the Hebrew tongne immboniste; "the reat of mankind" BADEL-babbled in gibberish!

The sbove hinta are furnished to others. We feel as charitably disposod as Josephua did when writiag. - "Now, as to myself, I bave so described these matters as I bsvo foond them and read them; but if any one is joclined to another opinion about them, let him enjoy his differant sonliments withont any blamo from me." ${ }^{\text {oses }}$

## Section F.--Structure of Genrsis I., M., and III.

Far more important, at an ethnological point of view, are the firat three chapters of the book called "Genesis;" and to them we can here devote but a paragraph or two.

Our Archeological Introduction, in Part III., has pointed out their Esdraic age, and the Persic origin of some of the mythes they contain. All modern divisions into cbapters and verses, of course, are to be abstracted; being mere Europenn addenda. Jewish divisions of the book of Genesis are entirely different. They are twelve in number; of wbich the first SeDR-Chapter I. to Chapter VI., verse 9 - is called the "Bereshith," beginning. ${ }^{\text {m }}$

To understand this "stractural analysis of the book of Genesis," according to exegetical principles now universally recognized by Hebraists, we refer the reader to a masterly critique by Luke Burke, ${ }^{6 / 2}$ and to the solid evidences supplied by De Wette. ${ }^{63}$ The more salient characteristics distinguishing the two documents are, the words ELoHIM, in king James's version replaced by "God;" and IeHOuaH, for which our appellative "Lord" is substituted; neither of these two Hebrew divine names being translated; as the writer will demonstrate in some future treatise. The relative order of these documents hecomes intelligible to the reader by being placed in juxtapasition. Our purpose now bcing merely the exhibition of some structural peculiarities not generally known, it is unnecessary to retranslate the whole tbree cbapters, and impossible to justify herein our verbal interpretations. With Cahen's Bible, the reader can easily fill up gaps for himself in the former case: adequate explanations in the latter would require the publication of a volume of results which, obtained through ten years' incessant travel and study, G. R. G.'s manuseripts embrace. To the anthropologist, however, it will be satisfactory to behold tbe true place of the word A-DaM in these texta - ארם, says Cahen, "l'espèce humaine, singalier collectif." And, as concerns otber questions, we must be content for the present to submit an observation written by the greal Hellenist, R. Payne Knight, to his colleagues Sir Joseph Bankes and Sir W. Hamilton : -

[^144]DOCUMENT No. I. - Qemens I; II. 3
" zelohim."
 cosmonong - antfque and scientlfic.
"In the beginolag, ELoITH created the (onivorselity of) okled, and the (rolvarallty of) earlb. And the earlh Tas Ttolld -and- BoHU (Ilterallymacullos and feminioe prinelplea diolocesed, or confoupded; parapbrastcelly - "wilhoud forse and e conflued mast"), and darkness wes upon the theo of the abyes, add the (breath) epirit of KLoBIM porered (like a deponding bird) oper the face of the Faters-
$$
[V .8,4]
$$
HADd tt wes RReB (roontern twifght) and It was BeKK (early dewn) - Day Oxx!
[ $7.8,7$.

| $\begin{aligned} & \text { n } \\ & \frac{1}{8} \\ & 3 \end{aligned}$ |  |
| :---: | :---: |
|  |  |
|  |  |
|  |  |

"ADA it wes ARGB (woceforin tellight) and it wis BeER (eariy dewn) - Day grownt

$$
\left[\begin{array}{l}
\text { W. 0-1 }
\end{array}\right]
$$

"And It was theB (wertern it lluht) end it wh BeRR (early dawd)-Day Than!

$$
[V .14-18 .]
$$

"Apd it wai ERaB (wedern twlight) and it was BaKR (early dewn)-Day Fourity

$$
\text { [ } F .20-20 .]
$$

"And 5 wio then (woders twtight) and it was BeKR (early dawn) - Day Prital
"And KLoHTM ably "Lat ua mare (the unfyerallty of) the A-Dach (ran con-man) ather oar imuse, like our likenead, and lat bim rule over the Beh of the sees and aver the blad of the milat and over the eattie and over, all the [ $W$ hale] earlh and orer all the cravier criming upon the earth.' And ELoHTM ereated (the onivernallity of) the A-D.M (fiterm-tan) aftor blo mage, ather the bmage of BLolliM crealed (he) them. And ELOIIIM bleased them and ELoHIM ead to them 'Be frutifal mad mailiply, and til the (andversallty of) earth and aubleot Ih, and rale over theh of the mees sud over Had of the bkien and orer all tha living thet crawie upon the earlh'

$$
[F, 29-50]
$$


"Rcozati," Kuforisy; commendng at sunsel on Pr day, and evding at tuncet on Badurdey.
"And It was ERoB (medorn twillat) and it was BoKR (oarly dawn) - Day the Rerral
[C7, U. v. 1, 2]
"Hod ELمEIM bleaed the (unlrere-
 it, bectuse the 8 haEaTi (realed, and exenthed) from itl hls work which ELoIITM crealed to eet" $-(i, e$, , by ita own organim henceforwerd).
Inim

DOCOMENT NO. प. -Gprese II 4; III. 24,
"Jthobah."
Hoputar eteation of tbe EXerctr

"Soch (the) generatkon (ithertly, brimping-forthe) of the alikes and ibe carth monording to their croation, os (tho) dis IeBOpaty-ELome made earth and atcen.

$$
[V, 6,6]
$$

"And TeHOunR-ELOBm formed th
 of duet from the A-DaMati (ram-mo earth) and breethed in (tin) mastris breath of lify, and the A-Dey (ramerb man) beame (a) Hivg creatort. And IeBOuaH-EioHix planind (a) gerien b EDeN (ar, in-Drimer) to (hes) Fint and there pliged the (uniramality of) A-DeM (THE-ED-man) Whom be hed trried.

$$
[F, Q-14)]
$$

Hand IfEOnsh-thour took th (universalty of) A-pay and placed him in (the) gorden of EDoN (or, 2 LOET) to criltivate it and to crand 4
[F. 16-29.]
thad Iefforeth-rionm minde the
 great drowanem, and be alept; and he took ane of his ribs and fliletion abeb In place thereot. And Ie HOMaE-Eumir contracted the rib wheb be hed catem from the A-DeN (raselm-man) mot Atshif (wotnan-or ISE, lmi) md mronght her to the A-DeN (rEx-er man)

$$
\left[\begin{array}{lllll}
F . & 20 . & \text { CR. (inis. } & \text { v. } & 10 .
\end{array}\right]
$$

 (the) name of A1SbaTr (thla जifl or ISET, Ion) Khivall (Eff), beonase in was (the) mother of all Hhele (hing)

$$
[F .21-24]
$$

"So be drovesut the (aniferinhy of) A-DaM (rHE-LED-mon); and M pleced at (the) Bant to (the) garder of cDeN (deliqh) the (univereally of ) KeRoBIM (IITE-Lmis), of whin be mede the cempllal-ming nemolve to guand the roed to (tbe) tree of the KhaIall (liper).

Frain

Onr present object limiting italif to the Creation of Mam, as set fortb in the above tro documents - each, the reader now perceives, distiact allogether the one from the other We withbold (contrary to our babit) suthorities for our arrangement of the "doenment Elohin." The Hebraist will concede that we bave adhered with rigid fidelity to the Text: and that suffees until we resuma biblical mysteries on s future occasion, when authority onoagh shall be forthooming. Yet, to the carious investigator, we feel tempted to offer the "Air" of the Muric of the Spheres:


If he be s masicisa, he can play it on a pisno; if he in a geometriciso, he will find its corresposding notes on the sides of an equilateral triangle added to the engles of a square; if he loves metsphysice, Plato will explain the import of unity, matter, logox, pafection, imperfect, justice, repore; wbile Pythagoras will elass for him monad, duad, triad, quaternary, quinary, senary, and aeptenary. We bope to strike the octavts note bome day ourselves; but, in the meanohile, should the reader be profond in estronomical history, and if he can determine the exsot time when the ancients possessed neither more nor leas than "fire planeta, berides the Sun and Moon," there are two archoological problems his acumen will have solved - 1st, the arithmetico-harmonical antiquity of the number 7; and 2d, the precise ers beyond which it will thenceforward be imposaible to carry back the composition of that ancient Ode we term "Gonsris $\mathrm{i}-\mathrm{ii} .8 . "$

Being of an epoch much more recent $;$ arranged opon a geographical basis purely Chaldaan; and containing allasions to a garden of deliant (like the famed "hanging-gardens" of Habylon, and the paradiriacal parks of Persia) ; the "Jehovistio document" throws little or no light upon ancient ethnography. A-DaM, as we shall teef, never was intended by the Jebovistic writer, to he the propertame "Adam," as the veraions pretend. The woman AiShaH (when the masorotic points or other arbitrary and modern diacritical marks are removed) becomes ASH, or (vowels being vague) I8E: identified with the Coptic ISE, as well as with the hieroglyphical sppellative of that primordial ISI, whom the Greeks (through the addition of their enphoniaing Sigma) made into the goddess ISIS: "Cor," saya Cumesse Akeandrinus, "in that thich belongs to the occule the onigman of the Egyptians are similar to those of the Hebrewa." gjs One of the tilles of this myrionymed goddess wes "the universal mother $;$ " and naturally so, "hecanse she was the mother of all living" (On iti. 20).
"I am," baya ISIS, "Naturs; parent of all things, the soversign of the elaments, the primary progeny of Time, the most exalted of the deitios, the first of the heavenly gods and goddeases, the queen of the shades, the niform coantenance; who diepose with wy rod the numerous lights of heaven, the salubrions hreazes of tio sen, and the mournful silence of the dead; whose single deity the whole world venerates in many forms, with varione rites and many names. The Egyptians, akilled in ancient lore, worship me with proper ceromonies, ad call me by my true name, Queen ISIS." ii

In consequence, the "document Jriorar" doea not eapecially concern onr present babject ; and it is incomparable with the grander conception of the more ancient and unknown Friter of Genesia lat With extreme felicity of diction and concisenesa of plan, the latter hat defined the most phifooophicel views of axtiquity upon cormogony; in fect so well, that it has required the palmontologioal discoveries of the XIXth centary - st least 2500 years after his death - to overthrow his septenary arrangement of "Creation;" which, after all, would still be correot enough in general principles, wore it oot for one individuel operaight, and ose anlueky blonder; not exposed, howerer, ontil long after his era, by post-Copernioan atronomy. The oversight is where he wrote ( $G$ an. i. 6-8): "Let there bo ReQIE;" i. e., \& firmament; which proves that his notions of "gky" (solid like the concavity of a copper hatin with stars setas brillisnta in the metal), ${ }^{\text {en }}$ Ters the same as those of adjecont people of his time: indeed, of ali men before the pablication of Nmprox's Pritcipia and of Laplafis

Meanigue Caste. The blundar in There he ooncrivea that AUR, " light" and IOM, "doy" (Gen. i. 14-18), could have been physically possible thres whole daye before the "two great luminariea," Swn and Moob, were created. These venisl errore deducted, his majeatic eagg benutifally illuntrates the simple prosese of ratiocination through which-often withont the slightest historical proof of intorcourse-differant "Types of Mankind," at diatinat epochac, and in conntrien widely apart, hed arrived, paturally, at cosmogonio conclanions similer to the doctrines of that Hehraical achool of which his harmonic and melodious nkmorr remen e magnifleent memento.

That process ueems to have been the following. The ancients knew, as we do, that man if upon the earlb; and thay were porsuaded, an we are, that his appearance wen preceded by unfathomable depths of time. Unahie (as we are atill) to mensure periods antecedent to man by eny chronological atanderd, the ancients rationally ranched the lebalation of coune eventa anterior to man, through viduction -a method vot original with Lord Becon, bocause known to St. Panl; "for his unseen things from the creation of the world, his eternal power and godbead, are cleariy seen, beish underatood by the things that are made" (Rome. i. 20). Man, they felt, could not have lived upon earth without animal food; ergo, "osttie" preceded him; together with birds, roptilea, finhes, Ec. Nothing living, they knew, conld have existed without light and heat; ergo, the rolar rytien antedated animal life, no lean than the pegetation indispeneable for animal aupport. But terrestrial plants cannot grow without earth; ergn, dry land hed to be beparatod from pre-axistent " waters." Their goological specalations inclining rather to the Neptunian than to the Plutonian theory - for Ferser ever preceded Hutton- the ancieats foand it difficalt to " divide the watere from the Waters" without interposing a metallic substance that "divided the watert which wero under the firmament from the watera that were above the firmament;" so they infarred, logically, thet a firmament must have bean actually craated for this objeot [S. g., "The uindous of the akies" (Gen, ni. 11); "the waters abowe the skies" (P3. cxlvii. 4).] Before the "wetera" (and here is the peculinr error of the genesimal bard), aome of the encients claimed the pre-existence of light (a view edopted by the writer of Gemesis Iat); Whilst others asserted that "chaos" prevailed. Both sobools united, however, in the
 these anoients, can have existed before the "darkness?" Ens ENTIDY, the CRRATOB, whe the bombled reply. ELoHiM is the Hebrev voeal exprension of that climax; to define whose strihutes, bave through the phenomena of areation, is an attempt we leave to ofhers more preaumptucus than ourselves.
"GoD," nohly exclaims De Bretonve, "has no need to strike our ears materially to make himalf heard, our eyea to make himself aeen. The firat act of triumph of the apirit over matter is the discredit of emblems that have disgrised the infinite God; and the first stop towerds trath is to recognize him withou inage, after having, for wo long a period, modelled him after our own." ere

What definition of the Godbeed more sublime than that in the Hindoo Vedas 9 -
" He who surpanses speech, and through the power of whom apesch is expreased, "know, $O$ thou! that He is Beanma, and not these perisbable things that man ederes.
"He who cennot be comprehended by intelligeace, and he alove, say the sagea, "through the power of whom the nature of intelligence cen be uoderstood, know, " 0 thou! that Fe is Bbayma, and not these perighable thinge that man edores.
"He who cannot be aeen by the organ of vision, and through the power of whom the
 4. thinge that man adores.
"He who cannot be heard by the organ of audition, and through the power of " whom the orgen of hearing hears, know, 0 thou! that He is Bearma, and not
" theae peribbable things that man adores.
"He who cannot be perceived by the organ of seent, and through the power of "Whom the organ of amelling smells, know, 0 thou! that He is Brazia, and not "these perishable thingr that man edores." mo

Phgencian, Cheldman, and many other nations' oosmogonies presont both stilking resemhlances and divergences. Some of them are oampared with Gasari, very ably, by Palfrey ; fll from whom we borrow these words of the $A$ kxandrian cosmogony of Diodones Srecuos - "This is not unlike what Euripidea says, who wes a disciple of Ansiagoras. For this is his langrage in the Melanippe:
> 'There wes one appect to aty ned earit;
> Then the eecret powers dolng theif ofllos Produced all things unto the ragione of light, Boarle, wirde, trees, che remtloek,
> Firaly, men themmences'"

But that Which ancient philosophers attained throngh the lats of inductive reasoning, if to themselvea clear and satisfactory, oould not be conveyed in s form so indefinite to the intelligence of the illiterste, nor to children. Such uodeveloped minda require dogmatical tuition. The teachers, to to say, had indactively ascended along an imagivary ladder, from man as its basis; until, haring eatabliahed some facts in nature antecedent to bis terrestrial advent, they reacbed ita lop, when they recognized that there must he i Piast Catai antortor to the "beginaing:" but, so boon as these acientific realts were to be conveyed to pupila, the dogtantical method beeame necessary: wherefore the preceptors reverned the order; and, commencing at the top of the supposititions ladder, they taght "In the beginning ELoHIM crated." Each rung, as they came down, marked, like degrees on a ecsle, the order in which previons induction had established the relstive places of events; and than every intelleetusl nstion possessed a "Genesis." That of the Hebrew Elohistio writer possesses the saporior merit of being a scientific bymp, ese arranged in true socordance with the mptenary seale of numerical harmonies.

Viewed es a literary work of ancient humanity's loftiest conception of Creative Power, it is sublime beyond all cosmogonies known in the world's history. Viewed as a narralive inapired by the Most High, its conceits would he pitiful and its revelations false; because telescopic entronomy has ruined its celeatial structure, physics heve negatived its comic organiam, and geology has stultified the fabulous torrestrial meahariam upor which ils assomptions are based. How, then, are ite crude and juvenile bypotheses about Human Creation to be received?

Before answering this interrogstory, it may he instractive to peruse some Fathers of the Church:

Ist Ogors. - "To what man of sense, I beg of you, could one make believe, that the frat, the eeoond, and the third day of creacion, in which notwitbstanding an eveaing and a morning are bamed, conld have existed without sun, without moon, and without stars? -that, during the first day, there was not even a sky! Who ahall he found so idiotic es to admit that God delivered himself up like a man to agriculture, hy planting trees in the garden of Eden situnte towards the Eeat; that one of those trees was that of life, and that another could give the science of good and evil? No one, I think, can hesitate to regard these things as figures, benenth which mysteries are hidden." ${ }^{\circ} 0$

The same patristic acholar adds elsewhere-"Were it gecessary to sttach oargelves to the letter, and to underatand that which is written in the Law after the menner of the Jewt or the popolace, I shoald blush (eribesce dicert) to eay aloud that it is Ood who hes given us such laws: I thould find even more granderr and reanon in human legislations; for example, in those of the Athenians, of Romans, or of Lacedmemonians." ${ }^{604}$
2d. Clemex: Alexandrinue - "For your Gitesis in particular was never the work of Mones." ${ }^{\text {®es }}$ - " IIorom ergo scripta (Orphei et Hesiodi) in dues partes intelligentio dividuntur ; id est, secundam litteram sant igrohilis valgi turbe confluxit, ea vero qua aecundum allegoriam conatent omvis philogophorsm et eruditorum loquacitas admireta est." St. Clement applies exactly the asme principles to Generis (Ixyi), whers be exclaims --" $O$ divine jesting ! It is the same that Heraclitus attributes to Jupiter.

Abimelech is Jesus Cbrist, our hing, who, from the beavens sbove, considers our epprts, our ections of grace, our transports of joy." ${ }^{\text {efr }}$
8d. SL Avadstifis - "Thers is no way of preserving the trae sense of the firt thres chapters of Genesis, without sttrihuting to Ood things usworthy of him, and for which one mult have recource to allegory." ${ }^{\text {men }}$
4th. St. Jeqons - who, in bis commentary upon Jeremiah, enforees the sllegorical method - " Bive Mosme dicere volueris suctorem Pentateachi, sive Esdrem ejusdem instanratorem operis, non reouso." ase

Let the most philonophic of many traly-lesraed Rebhis olose the list :-
Mamonidgs - "There are some persons to whom it is repugnant to perceive a motive in a given law of the (divine) laws; they lowe hetter to find no rational sense in the commandments and prohibitions. That whicb leads them to this, is a cerinin feebleness they feel in their souls, but upon which they are unable to reason, and of which they know not bow to give any account. This is what they think If the lawe shoold profit as in this (temporsl) existence, and that they bad been given to us for such or such a motive, it might very well be that they are the prodnct of the reflection and of the intelligence of s man of geniur: if, on the oontrary, a thing possesses no comprebensible sense and that it produces no advantage whatever, it emanates, without doabl, from the Deity, because buman thonght could not lead to such a thing. One would ray that, according to these wesk minds, man is greater than his Creator; becanee men (becording to them) speske and acta while aiming at a certain object; whereas Ged, far from acting similariy, would order us, on the contrary, to do that which to ourselves is not of the lesat utility, and would forbid as from actions that cannot canse as the slightest damage." (Arabicè, 'Dellalat el Khayareen; Hebraice, Mfore Nebanthan; "Quide to the Strayers," ch. xxii.: Mung's Transiation, Paria, 1883.)
They all-i. e., the Fathers of the first oenturies -attributed a double mense to the words of Scripture, the one obvious and litera, the other hidden and myetical, which hay concealed as it Fere under the outward letter. The former tbey treated with the utmoot neglect ; 6so following St. Paul's authority - "For the letter killeth, but the spirit givelh life." - (2 Corinth. iit. 6.)

## Section $9 .-$ Cosmas-Indicopleustes.

But, in the proportion that Hellenic learning faded in Alexandrian schools, so patristic talent and scholarship also deteriorated. That "Genesia" which, by the earlier Fathers, had been ascribed to Ezra ratber than to Moses, and the language of which, to more refined Grecian intellecte, appeared too contemptible for Divinity unless construed in an allegorical sense, at length began to be accepted verbatim et litteratim by Christian writers: the strenuousness of orthodoxy, in any creed, increasing always in the ratio tbat mental culture declines. At last, arose a Monk who, unjustly forgotten by the Cburch thougb he be now, did more to petrify theological stolidity in Europe, for 800 years, with respect to the first three chapters of Genesis, than ady human being but himself-Cosmas-Indicopleustes.
"He is," says the learoed Mr. Sharpe, " of the dogmatical eobool which forbids all laquiry as beretical. Me fights tbe battle which hat been so often fought hefore and sinces, and is even still fought so resolutely, the battle of religious ignorance egainat veientifin
knowledge. He sets the vords of the Bihle against the resalte of science; be denies that the world is a sphere, and quotes the OId Testament againgt the pagan philosophers, to show that it is a plane, covered by the firmament as a roof, above which be placea the hingdom of heaven. . . . The argaments employed by Cosmas were vaiortunately but too often used by the Cbristian world in general, who were even willing to see learning itself fall with the overthrow of paganima. All knowledge wat divided into ancred and profane, and Whetever was not drawn from the Bcriptures was elighted and neglected; and this perhaps wes one of the chief censen of the darkness which overspread the world during the middle ages." wi

To comprehead the foree of these ohserrations it may be well to prefece our description of the Topographia Christiona by e few excerpts from Mater, end

The only Christian Father whose writings evince the hamblest acquaintance with Egyptian studies, Clemers Aleandrinus, expresely says, that the "Egyptians Laught the Greeks the movement of the planeta round the aun;" and, since 184B, Egyptology can proudly add the extriordinary discoveries of Lepsius in hieroglyphioal Astronomy, which are likely to be carried to resulta litule expected, through Biot,

About i. c. 603, Thales hed obeerred an eclipse of the sun. He taught the apheroidity if not the aphericity of the earlb; he knew the obliquity of the ecliptic; knew that the moon was illumined by the sun; and explained solar eclipses by the intervention of the lunar dise between the earth and the ano. In the succeeding century, Pythagoras austaided the sphericity of the earth, and ita movement, with the planets, round the aun; and his diaciplea Lencippus and Democritus added some acquaintance with the rotary motion of the earth upan its exis. Eudoxus adrocated eimilar doctrines. Now, Thales, Pylhagoras, and Eudonus, had studied under geouine hierogrammatists in Egypt.

The grand Stagyrite (who had not drunk of Nilotic waters) maintained the contrary; viz., that the sun revolved aroand the earth. In vain did ArisLarchus etrive to bring science back to truer principles. His voice was unhebrl for sixteen centuries. Hipparchus determined the precession of the equinores, \&c., doring the 2 d ceatury 日. c.; but, his more important works heing lost, "talit alter honares;" because Ptoleny, a far better geogrsphor than astronomer, has not revealed what of his great predeoessor's views mililated againgt his non celeatial dogmas. In the early part of the 2 d centary, after c., Ptolemy had wofally retrograded from onciont Greco-Egyptian science; for he held to the absoluta immobility of the earth, and made the aun revolve ayound nur globe. Denonacing the contrary syatem as too ridiculous to merit attention, he given his own reason for opposing it, viz., "thes one always sees the same balf of the sky"! "The esrth," saya Claudius Ptolemy, "is not ouly central, but alao stationary. If it had an individual motion (upon its axis) such movemont wonld be proportioned to its mess. It would, therefore, leave behind it the animals and other hedies, which would be carried into the air, - it wonld fly away from them, and eacspa from the sky! No object not fixed to the earth, no bird, could advance to the eastward with the same rapidity as the glohe"! Unsuspected before Newton, the laws of gravitation and attraction could not ease Ptolemy's perplexities.

We have seed that the older and wiser Fathers of the Church (who must have been more or less read in the higher Grecion classics), unable to reconcile the letler of "Genesis" with What they well koew to be positive philonophy, had recourse, like Philo, to allegorical explepations: which menne, simply, that they disbelieved genesiscal stories as revealed in the Septuagint, and therafore nullifled them by inventing mystic hypotheses. They sustained, however, in their writings, no eapecial theory upon astronomy or geography; but, that with which Clemens, and Origen, and Anetolius, and Synesius, and Theophilus, and even Cyril, had refrained from meddling, was grasped, with Promethean audacity, by an iticerant trader of the sisth century after $c$.; whase temerarions zeal, when be kad adopted monastic vowa, was exceoded merely by his delicious stopidity; as we now proceed to prove. Cosmas, getting a Greek copy of "Genesis" before him, composed, upon that poor vernion's literal laggage, hin Topographia Christiana.

Fia. 867.


He, Cobmes aforeseid, commeacen with a prectical demonstration o! the absarthty of "Antipodes," - by drating e figare like this -

He then acutely obeerves:-"Cam figurs hominia recte sit, qui fit ut quatuor ilii eodom temport atenteo reoti mone sint; sed quocnmque verte eos, quataor illi simul nawquam videantur; quomodo ergo fieri poteat nt panas illen mendacesque hypotheses edmitiomas 9 Qumodo ergo fieri potert ut eodem tempore plavia in goatuor illos deaidat? Quod ergo дec naturs neo smens roetra edmittere poteat, id our frustra supponitis?"-"Thus," contiones Montfancon, "Cosmas here and throughout Topographia Chriatinns, of d multi alï as SN. PP. qui nee graviatio contrinh, wec entranmicas observariones, rallebant."

Bt. Augastine it was who had "faen folks with an eqe in the pit of their stomacha; " mo his testimony is unsefe; bat Lactantios bad beheld feचer merrele, and we quote him: "Ineptum eredere esas homines quorum vestigia sint superion quam capits, aut ibi ques apud nos jacent inverta pendere, frugea et arbores deoremm rersus orescera. . . Hajon erroris originem philonophis fuisse quod existimarint rotundom esse mundam."

For the sake of contrast with later patristric orthodoxy, let juatioe be meted out to acme old rehbinical capacities. The most ancient authors of the Guanara were acquainted with the spherical form of the earth; for they eay, in the Jerasalem Talmad, that Alerander the Great, going over the earth to conquer it, ascertained that it ras found; sad it is an that account that statuary represents him with a glabe in his hand.e日s Albeit, thert are Judaical authorities of bigher antiquity in the Zohar - a book which probably antedates, but in any case approcimstes to, the Chriatina ers fift - whose knowledge of the more ancient systems of cosmogony led them to write as follows:-"In the book of Chamnonas the OV one lentas, throagh extended explaations, that the earth turas upor iself in the form of a circle; that some (prople) are above, and othert bolow; that the aspect of all oreatures changes according to the appearance of each plece, while preserring neverthelen the same position; thet suoh a oonntry of the earth there is that is lighted, whilat melh others are in darkness; the former have day when to others it in night; and there are some countriea where it is constantly day, or, at least, where night lects buta fow instanis, "as

Bat such profanity was onintolligible to Cosmas. No ray of light, from ecientifie sourteit could penetrate into ablockheed.

To bim, the habitable earth is a plane aurface, having the form of a parallelogran, of -bigh the sides are donbie in length to the top and bottom. Inside thia oblong squaro are four besins, the Mediterranean, the Caspian, the Bed Ees, and the Peraien Galf. Ontide the parallelogram the circamambient ocean sarrounds the toner oblong-aquare, and eoprates it from the onter continonts (primitively inhabited by Adam's family), from paradim, and from the "garden of Eded," thich are situate opon mountain at the East Here dwelt our first parents, until the ark of Noah, during the delnge, ferried thero over to the inner continent where we ourselves reside unto this day. Cosmas igrored whaterer he could not find in the Bible; and, wiser than our modern theologera, this modest palterp for prurient orthodoyy never discovered China, Northern Europe, Central Africa, America, Polynetid, or Australia, in the canonical Scriptures. Let his map, and bis own perspicaoua langusge, explain trae Mosaic cosmology. He begins with the exect Greek letter of Goneris i. 1: bot his editor kindly farnibhes tbe Fulgafe:-"Scriptum eat Iv parnctrio

[N. B. My 0wn tracing (made at the British Maseum, fn 1848, for personal remenbrance) boing too rough, we art indebtad to the accomplished Mrs. Lake Barke for the facrimile transcript, of which the ahove is a copy; reduced slightly wore than one half. Tjpographicsl exigende compel us also to transfer Cosmas's explanelions from the acp
?

itself into our text; but the letters A, B, C, \&c., indicate the place of each. As tho work of Cosmas is exceedingly rare, we hope theological studente will appreciate the paing leken to furnish theln with so clear an illustration of what they still call "Mosaic" cosmogroy. - G. R. G.]

## Cobmas's Grifie Eiplanations.

A - Adulis city (Abyasinio).
B - the roed from Adulis to the East Ethiopisns travelling. -
C-Ptolemy's chair.
D-Firmament.
E Waters which are above the Firma-
F $\}$ meal
G Columas (to anpport the Firma-
H $\}$ ment).
I - inbabited earth.
J - land beyoad the Ocean, where men dwelt befors the Delage.
K-land beyond the Ocean.
L-Caspian Sea
M-River Pbison.

N-4 Points of the compass.
$0 \rightarrow$ Mediterramean Sea.
P - Arabian Gulf.
Q- Tigris.
R-Euphrates.
S-River Gibon.
$T$ - land beyond the Ocean.
U - the Bun Oecident
$V$ - the Sun Orient
$X$ —the Bun Oceident
Y - the Son Orient
$Z \rightarrow$ is Cosmase's picture of the Almindty looking do min, and seeing that"it wes good."

In the IVth book of "Topographis Christians," the pious Cosman describes his bydre graphic and ecclesiastical principles; but, rich as they are, his argamentation is loo prodir for our purposes, which are served by trenslating Montfaucon's aynopais of his anthor's elucidation of Plate $I$.
"Fig. 1. In the firat figure, the city Adothi or Adulis [in Abyssinis] (for it is socalled in hoth weys by Cosmas) is ahom. Arumis, which is two miles dirtant from the hed Sea, is situstod to the East; for which reason an Ethiopian is represented, in his Fthispian costume, laxing the Axumig road to Adulis. Then Ptolemy's chair is delinates in the form it is asid to have had by Conmas. That [part of the ohair] howerer, sedip tured all over in characters, had only the last portion of the inacription added. Bot the inscription on the atone tablet placed opposite was finished-a fragnent of whid from the lower part together with its charactars or lettera had been deatroyel Abote the stone tahlot king Ptolemy Efreantes bimself is represented in his miling atim as be appears in the picture. These thinga gou fill find more fully expisined in pur 140 and the following.
"Fig. 2. In the second figure the shape of heaven and earth is delineated according to the opinion of Cosmas and the old Fathere, who thought the earth, as it were, akd surface, extending beneath and inclosed by walla on all sides; and that these will rer raised to an immense beight, and finally arranged themselves into the form of a rads; while the firmament pervaded the higher part of the rault so that it (beatorum seder) might be the seat of the Blest [The Bame ides ('firmament,' Hebraict SEhKIM KhZKIM - literslly, solid akies) oceura in Job xxyii. 18. Thus Caben renders-'As-tu étenda aree lai les cienc, solides comme un miroir métallique "' And Noges-
——"Canat thoa lite hlm apread out the shy
Whath hefre lle e molten mirrori' 700
But, under the firmament, they thought the sun, moon, and stare, were pot in metion; and that a cortical mountain of wondrous beight rose up in the northern parts of the earth; and while the ann, performing hia circuit round the earth, stood behind this mountain, there was night to those inhabiting the earth; bat, on the other hand, it Fas day when the sun shone upon $n 8$ on the reverse [i. e., on our side] of the mortrrain : sod, in a similar way Cosmas rensong with respect to the moon and shat; fee page 188 and the following.
" Nig. 3. Exhibits a prospective riev of the oniverse; that is to say, of the hearem
and the earth in the part where they are more olosely drawn together; for Conmas thought the earth was aguare and obiong, and the ssme is assumed with respect to the heavens. See page 186 and following.
"Fig. 4. Represents a conical mountain, and the earth, together with the sun and moon, under the firmament But on the sides [Jobin. 8-aMODIH-' Pillare fof the earth)'; Job xxi. 11-'piluars of the skies'] are represented the pillars of heaven, with an inecription [in Greek'] upon the plan here presented --ot cidec roil atpaveothe columne of the shy; which columns, according to the opinion of Cosmes, I think to be those walla which arise on the sides from the earth up to the heavens (Prolms cxiviii 4- Ye watses that be above the akica').
"Fig. 5. The outline of the earth and its inwypaqfay are traced oat. You may observe that Cosmas conjectured that the immensely-high conical mountain presented an obstscle where our earth could not, at the northern part, be ac vell inclosed by a right line; because its foundations on that nide are round, as if thay proceeded from a great promontory in the ocean.
"Fig. 6. Displayg the ragged plain of the earth, such as Coamas explains in many pleces; for he thought, as we bave said before, that the earth was oblong, and ita jength twice as long an its breadth, and that an occan surtounded the entire earth, as is here represented But, beyond the ocean, there was yet another land adhering closely, on all sides, to the walls of beaven. Upon the eastern side of this transmarine land he judges thet mar was caratid; and that there the paradise of gladnes wis located, such as here, on the eastern edge, is described: Where it received our first parenta, driven out of paradise to that extreme point of land on the sea-shore. Hence, upon the coming of the deluge, Nosh with his sons was borne by the arl to this carth we now inhabit. The four rivers, be supposes, to be gushing up the spouts in paradise; with gubterranean channela through the ocean, to our earth, and in cerlain places that they gueh out snew. He considera that the Hyrcanian Sea [Caspian] is joined to the ocean; whicb we bave eisewhere shown was the opinion of certain ancients.
"Fig 7. He briefy digpatches the whole maohinery of the world, which, as the ancients thought, was composed of the sky and the carth. It form he represents, with the conical mountain above alluded to. But Cosmas-Egypticas deemed that the earth which we inhabit wna always inclining from the north to the south. Albeit Cosmas contradicta himbelf. How can auch a mass as that of heaven and earth atand, bupported by nothing, sance it is alwnys preased downward foeanswers - the earth, inusmuch as it is ponderous matter by dature, seeks the hottom ; but the igueons parts tend upward; therefore, when sky and earth are thus joined and cannot be torn asunder, the one preasing from above and the other from below, neither gielding to the other, the whole machine remains immorable and nupended. [' This is a grand argument,' saya, Mr. Barke, commenting in a private letter, 'and beata the Newtonian theory out and out! Only fancy; two forces shut np in a hor, one palling ap, and the other palling down, and the box, in eonsequence, remaining 'immota et suaperas !' This ia, beyond exception, the brigbtest mechanical idea $I$ bave over come acrobs'].
*Fig. 8. He represents the conical mountain on that side which is turned adversely to the earth; where, when the sun arrives, night is produced to the earth's inhebitants. In the asme place the revolution of the sun are indicated by lines [upon the conical monntain]; whereby the varions scasons of the year are cansed. When, therefore, the sun arrives at the lower line, the dights then are longer, and it mekes vinter, rporn, or revolution: the sun performing the major portion of his course behind the mountain. When, however, the sun comes to the middle line of the mountain, then the equinoz in produced; the bun in performing bis coaree having reacbed the equinoctial line Whea, finglly, the sua touches the appermost line, then the enmmer revolution takes place, and he attsins to the tropic. This is in cooformity with the opinion of Coemene,
 wh, middle night; mapol wig little right; as you behold in the pictare."

Through the above parody apon anture, Cosmas expleined all celestial phenomens the course of the moon, its phates and eclipses, as well as the con's rotation roand the earth's flat plain. The Topographia Chrifiana becsme the text-book of ecolesiertical orthodoxy, for above 800 years, down to Galileo; and Cosmas's caricatura on the one hand, coupled with ignorance of the Hebrew text of Joahus (x. 12-14) on the ather, induced the murder of Giordano Brono.

Nevertheless, according to the literal langage of the first IX chaptert of "Genesia," Cosmas wes not far from the truth. Were the adcient writers of those chapters to arise from the grave, and wert they respectfully requested to indicate which commentery beat represeated their meaning - that of the Topogrophia Christiana; or those recent attempts ${ }^{4}$ to make Moses sound in the faith of the geological section of the British Aasociation for the Advancement of Briobce" 201 - they would unnnimounly elnim the former te their own

Happy middle-ages; when Europe made up in credulity whet it tacked in intelligedce! "They had neither looked into beaveo, nor earth; neither into the sea, nor the land, at has been done since. They had philosophy without acale, astronomy withont demonstrar tion. They made war without powder, shoh canaon, or morlers; nay, the mob made bonfires without equibs or crackers. They went to sea without compese, end sailed lacking chronometers. They viemed the stars without telescopes, and measured altitudes without barometern. Learning had do printiog-prese, writing no paper, paper no ink; magnetian no telegraph, iron no rails, stenm no boilers. The lover was forced to aend hia mistreas a deal-board for a love-letter, and a billet-doux might be of the aize of a trencher. They were clothed without menufactures, and the ricbest robes were the skins of formidable monoters They cerried on trade without bookn, and correepondence without postage: their merchante kept no ledgers; their shopkeopera no cash-books. They had aurgery withoat anatomy, phraicians without materin-medica; tho geve emeties witbout ipecacuanhs, and eared ognes wilhout quinios. They dispensed with lucifer-matches, coffee, suger, teen, and tobacco" thand, never having heard of the firgt three chapters of "Genefis," they believed in Topographia Chritiana!

The book is soarcely known, now-a-deys, to theologers; but its commentary (orally trase mitted from father to son) survives all aroand us. We bave conceived it our duty not to let the one continae without the other; and therefore bave resoned from farther oblivian the Moesic chart of Cokenen

Section $H$.-Antiquity of the namb "ADaM."
After what has been already set forth, there seems scarcely reason to answer an interrogatory, above propounded, relative to "human creation" as narrated in Genesis. Arcbsological criticism might finally rest upon one Hebrew word; viz. ADaM.

The philological law of tritiferala, in Semitic tongueg, has been touched npon during previous examinations of Xth Genesig. "Non omnis posanmas" - and the eathorg munt reiterate that in order to keep vithin one volume, they bave been forced to expargate redundencien, ofton, they fear, at the sectifice of perspicuity. In lien of extracts from the pages of Lenci, Meyer, Geaerins, Neumann, Ewald, Wilhelm von Humboldt, Prieherd, Bunseh, -in eddition to those previously drawn from Hamlinson, De Baulcy, Ec. - ell corrohoraing our correctnest, we must substitute reforences to their antborilativo works

The reajer will observe, notwithbtanding, that the bisyllable ADM cannot be a primitive but must be a secondary formation, according to the progressive sesle of linguistic derelopment. To reach the primary root, or monosyllable, within this triliteral word contsined, an affix, a stffix, or a medial-letter, must he first removed. Among Mebraists of the higbeat modern school, on the Europead continent, the fact that "Adam" is a diaryUabic name alooe
suffices to prove that its possessor appeared on earth thousends of years aubsequently to the primordial ages of bumanity; beceuse im principio man arlicaleted bat monasyllables. Or else (what is the same thigg in result, no less than more positive) the Laraelite who (in some form of coin-letter) wrote the word ADM, of Genemi, lived at a philological epooh When the pristine moncsyllabler had already (orgenically through development) merged into words of teoc ayliahles; and therefore, that writer committed an egregions anschroniam when he retro-leptically ascribed a triliteal proper-name, or ratber noun, to his first human progenitor.

The word ADM, or with an additional rowel, $A D_{a M}$, is consequently to be divided into tro separste words, $A$ and DaM; or A-DaM. Now, A, aleph, is the primeval, Semitio, masealine artiole $\boldsymbol{A}=$ " the" : ; Don an article that, in Scripture, is prefired to above forty masculice suberantives; although, until recently; the fact was unperoeived by Hebrew grammarians, or Jewiah lexicogrsphers.

In the next place, the word ADaM does not proceed, as the Rabbis suppose, fram ADaMaH (Gen. ii. 7)-a tiryllable from a tringlable! -hat the latter is an extention of the former root, DaM (Arabice, Dem), meaning blood; the color of which, being red, originated the secondery eigoification of $\mathrm{DaM}_{\text {, as "red ; " and " to be red." }}$

Consequently, $A$, the letter "aleph," heing the masculine article the; and the noan DaM meaning blood, or "red," we have ouly to unite these two words into A-DaM, to read theblow, or fHE-red, in "Genesis;" Which duplex substantive, applied to man, naturally aignifies "the-rod-man;" and, When applied to the ground, ADsMall (" out of the dust "of Which this the-rad-man, ADaM, was moulded), it means the-red-aorth ; i c., that rubesetent soil out of which the Jehovistio writer of Genesis IId imagined Hebrew man to liave bean farhioned by Creative artisanship. The BeNi-ADaM also, in Psalms (ilix. 2. Comp. Ps. kxi. 9: and contrast with BeNort-HaADaM, Gen. vi. 2), are reputed to be patriciars of the pure Abrahamio stock; whereas the plehejans (ivcluding all those who are, like AngloSaxons, mere GOIM, Gentiles) belong altogether to a different and lower level . . . in the eye of IeHOanh.

We adopt entirely the Ialian rendering of the great interpreter of Sacred Philology at the Vatican; and think, with Lapci, that il-rassicante, "the-Blusher," is the bappiest translation of the old Semilic particle and noun A-D*M.

How does this interpretation bear upon ethnography?
Resder! simply thus. As po "Type of Mankind" but the white race can be said (physiologically) to blush; it followe, thet, according to the conception of the writers of Geaseis (who were Jucz and of the "white race"), not only did the firat buman pair converae between themselves, no less than with God and with the serpent, in pure $\bar{H} b r e c$, but they were essentially A-DaMitas (red-ranan and woman) "blughers: " - and therefore, these Hobrew writers, never bupposed that A-DaM and IBE (vulgarice, Adsur and Eve) could have been of any stock then of the shite type-in short, Hebrewa, Abrahamida, like thempelves - these writers aforesaid.

Thus, through a few cute of an archmological scalpel, vanishes the leat illusion that any but while "Types of Mankind" are to be found in the first three chapters of the book called "Genesis."

The "Chinesp" having been carefully removed further on from connection with the Moeopotamian SINIM of Isaiah (xlix. 12), nothing remains but to refer the reader to the map [upra, p. 652] we have given of Xth Genenis for the whole of Elhnography comprebended by the writers of the Old Testament: Strabo, who followed Eratosthenes about m. 0. 15, furnishing every possible information upon what of geography was atcainahle, in the firat eentary after c., by the writers of the New.

The present authors bave anserted these resalte before.
"That part of the map colored deep-red includes sll the world known to the infpired Writers of the Old Teatament; and this, with the part colored pale-red, includes all known to St. Pbul and the Evangeligts, - As we have no evideace that their inspiration exteaded to matters of acience, and we know that they were ignorant of Astronomy, Geology, Nataral History, Geography, \&e. - what evidence is there that they knew anything of the IN日ABITANTS of countries unknown to them, ris. : Americons, Chinese, Hindoos, Anstrelians, Polyoesians, and other contemporary races?"-(J. C. N. : Bibl. and Phye. Hiar. af Man; New York, 1849; "Map" and pp. 54-67.)
"These unhistorical origines of nations are now adverted to, sa a prelude to the diaeuarion of the Xth chnpter of Genesis (see Fthnological Jowral, No. VI., note, page 254), whereby it will be demongtrated that, nader the personifications of "Shem, Ham, and Japheth," their fifteen cont, and seventy-one grand-children, the Hebrew geographers, whote ken of the earth's superficies was even more limited than that of Bratosthanes, about b. c. 240, havo never alluded to, nor intended, Mongolisa, Majayan, Polynesian, American, or Nigribin reces."- (G. B. G.: Otia Agyptiaea; Londod, 1849: p. 124, "note.")

Five years have since elapaed. Most of the conclusions advanced by the authors have been challenged. Whether those conclassons were based, or not, upon thorough investigation of each department of the subject, the reader of the present volume is now hest quaslified to decide.

## PARTIII.

## Supplement.

BY GEO. R. GLIDDON

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## ESSAY I.

## ARCHAOLOGICAL INTRODUCTION TO THE XtE CHAPTER OF GENESIS.


(Lutime)

## "Thr Xth Craptrr of Genreis-Archeological Introduction to

 its Study" - is the heading given, in our "Prospectus," to Part III. of this work.To the generality of readers, educated under convictions that every procesa calculated to probe the historical evidences of the Hebrev. Scriptures has heretofore been rigorously spplied to them, an Introduction termed "archmological" may seem, to aay the least, auperfluous at the present day - while to nota few peraons, the proposed method of examinetion may, at first aight, even wear the aspeot of presumptuonenoss. Nevertheless, having annoanoed the intention, is behooves us to justify it.

In common with other Protestante, since our earlieat childhood, we have been assared that the Bible is the word of God - and that the inspirstion of the writers of both Old and New Testameate rests apon leatimony the most irrefragahle. We have also been admonished in the language of the Apostie (1) to "seareh the Scriptures;" coupled with the corroborative exhortation, (2) "beek, and je will find ; knock, and it will be opened uato you."

Thus, on the one hand, arseverations the most positive fortify the inquirar who conscientiously examines whether the divine revelation of the Bible and the inspiration of its penmen are "built apona rock;" at the asme time that, on the other, the Cospels themseives invite him to search, seek, and acrutinize.

Supported by acchantbority, no legitimate objeotion can ba sustained, hy Protestanta, againat the employment of what we conceive to be the ouly method through which the higtorical validity of a given proposition can he thoroaghly tonted; nor will logical orthodozy contest Vater's axiom-"Faith in Christ can aet no limite to critical inquiries; otherwise he would hinder the knowledge of Truth."

[^145]Homo, becording to Bsoon, nature minister at interpres, tantum facit et inteligit quantum do natura ordine re vel mante observaverit; nec anplite seit, aut potesf. A finite being, ciroumscribed within the intelleotual horizon of the mundane age in which each individual lives, man can reason merely apon phenomens. Quicquid enim, wrote the immortal Nb"Lon, ex phenomenis non deducitur hypothesi vocanda est; et hypotheres vel metaphysica, vel phyrices, mol qualilatum occultorum ses mechanices, in philosophia locam nom habent.

Fhat is Philosophy" Etymologically, the "love of wisdom," and paraphrastically, the " love of knowledge;" multiform are the significations through which this sublime Greek word has travelled. From the ohleat English bistorisn(8) of its phases, wo extract ench paragraphs as will convey to the reader our individaal perceptions of its import at thin day.
"We shall find some obscurities cleared up, if We can magter an accurate and comprebenaive definition of Philocophy. The definition I have finally eettled upon in this:-
"Philosophy it the ecplanation of the Phenomena of the Unixerse. By the term explanation the subject is restrieted to the tomain of the intelleot, and in thereby demarcated from religion, though not from theology.
"Philosophy is inherent in man's nature. It is not a caprice, it is not a plaything, it is s necessity; for our life is a mystery, surpounded hy myateries: we ars encompassed by wonder. The myriad aspects of Nature withoul, the stragge fluctustions of feeling mifhin, all demand from us an expladation. Standing upon this ball of earth, so infinite to $\mathrm{wa}_{\text {, }}$ so trivial in the infinitude of the universe, we look forth into nature with reverent ant, with irrepressible curiosity. We must have explanetions. And thus it is that Philosopty, in some rude sbape, is a visible effort in every condition of man - in the radest phase of half-developed capacity, as in the highest conditions of culture: it is found among the augar-oanes of the West indies, and in the tangled pathlens forest of America. Take man where you will--hunting the buffalo on the prairies, or immorable in meditation on the hot banks of the Ganges, priest or peasant, soldier or student, man never escapes from the pressure of the burden of that mystery which forces him to seek, and readily to accep, some axplanation of it The savage, startled by the muttering of distant thunder, eaks 'What is that?' and is restless till he knows, or fancies be knowe. If told it is the roice of a restless demon, that is enough; the explanation is given. If he then be told that, to propitiate the demon, the sacrifice of some human being is necessary, his slave, bis enemy, his friend, perbeps even his child, fails a victim to the credulous terror. The ehildhood of man enables us to retrace [archmologically] the infancy of nations. No one can live with chijdren without being struck hy their restless questioning, and unquenchable deaire to heve everything explained; no leas than by the facility with which every anthoritative essertion is accepted as an explanation. The History of Ptilosophy is the stady of man's succersive attempts to explain the phenomena around and within him.
"The first explanations were naturally enough drawn from analogies, afforded by conacionsness. Men asp around them activity, cbange, force; they felt within them a mysterious power, which made them activo, changing, potent: they explained what they saw, by What they felt. Hence the fetichism of barbarians, the mythologiea of mare advaneed races. Oresds and nymphs, demons and beneficent powars, moved among the ceaselesa activities of Nature. Man knows that in his anger he storms, ahouth, destroye Kbat, then, is thunder but the anger of some invisible being? Moreover, man knows that a present will assuage bis snger againat an enemy, ond it is but natoral that be ahoold believe the offended thunderer will also be sppeased by some offering. As scon as another conception of the nature of thunder bas been elaborsted by observation and the study of its phenomena, the supposed Deity ranishes, and, with it, all the false conceptions it origineted, till, at lass, Science takes a rod, and draws the terrible lightning from the bearens, rendering it so harmiess that it will not tear awsy a apider's web!
$\because$ Ihut long centaries of patient obaervation and impatient greasing, controlled by logia, were necessary, before anch changes could toke place. The dovelopment of Philooophy, like the development of organic life, has been through the slow additions of thousands upon thousands of yebra; for humanity ig a growth, as our globe is, and the laws of its gronth are atill to be diseovered. . . . One of the grest fundamental lawa has been discovered by Auguste Comte - vix ; the lave of mental Evolution. . . Which he bie not oply discorered,
 found in voi. 1v. pp. 21S-282, under the bealing of Avouste Cowit, "the Beson of the minelentith century," and




bat applied historically. . . . This lav may be thus stated: "Epery branch of knowledge passes successively through three alages: 1st, the nupernatural, or fictitious; 2 d , the mecophytical, or nbstract; 3u, the positive, or scientific. The firat is the necessary point of departure taken by human inteligence; the second is merely a stage of transition from the onpernatural to the positive; and the third is the fixed and definite condition in uhich knowledge is slone capshle of progressive development.
"In the attempt made by man to explain the varied phenomena of the unirerse, history reveals to us," therefore, "three distinct and characteristio stages, the theological, the metaphyrical, and the poritive. In the firat, man explains phenomena by some fanciful conception auggested in the enalogies of his own consciousness; in the second, he explain phedomena by some a priori conception of inherent or anperadded entities, suggested in the constancy observable in phenomena, which conatancy leads him to suspect that they are not produced by any intervention on the part of an external being, but are owing to the matore of the things themselves ; in the third, be explains phenomens by edhering solely to theas congtancias of raceasion and co-existance accertained induplively, and recognired as the lave of Neture.

Consequentiy, "in the theological atage, Nature is regarded as the theatre phereon the arbitrary wills and monentsry caprices of Superior Powers play their yarying and variable parts. . . In the metaphyrical stage the notion of capricions divinities is replaced by that of abstratt entifict, whose modes of ection are, hovever, inveriable. .. . In the pavitive stage, the invarishleness of phanomens under similar conditions is recognised as the sum total of haman investigation; asol, heyond the lawe which regolate phenomans, it is conaidered idle to penetrate."
"Although every branch of knowledge muat pass through these three stagen, in obedience to the ia Some aciences are more rapid in their evolations than others; aome individuala pasa through these evolutions more quickly than others; po also of nations. The present intellectuat ansrchy resulta from that diference; some sciences being in the positive, some in the supernatural [or theological], some in the metaphysical atage: and this is forther to be oubdivided into individual differences; for in a science whioh, on the whole, may be fairly admitted as being positive, there will be found some cultivators still in the metaphyaidal stage. Astronomy is now in so positive a condition, that we need notbing but the lawe of dynamics and gravitation to explain all celestial phenomens; and this explanntion ve know to be correct, as far as anything ann be known, beosuse $\mathbf{t o}$ can predict the retura of a comet with the nicest accuracy, or can ensble the mariner to discover his istitnde, sand find his way amidst the 'waste of waters.' This is a panifive science. But so far is meteorology from such a condition, that prayers for dry or raing webther are atill offered up in charehes; phereas if once the lawe of these phenomens wore traced, there would he no ragre proyers for rain than for the aun to rise at midnight."

We hase only to reverse the order, and apply ita tripie classification to individuals, and In the natural arrangement of the strata, tracing backanals from the poritive to the metaphyrical, from the latter down to the oupernatural, we shall perceive that this last, at once the oldest atage and unhapply the most common, represents the least matore, the least educated, the most antiquated, state of bumen intelligence. In consequence, the mere supernathralist believes anything and everything, bowever impossihle.
"The Hetaphynicion believes he can penotrate into the eauses and coscrees of the phenomena sround him; while the Positivit, recognizing his ofn incompetancy, limits his efforts to the ascertainment of those Isws which regulate the succession of these phenomens."

In the quintuple clagsification of those sciences into which Parifive Philosophy has hitherto been successfally introduced, M. Combe (1892-40) odmite only Astronomy, Phyeios, Chemintry, Physiology, and Sociology. It elrikea us that, at the present deg, this division is more exclusive then the progression of hoowledge any longer warranis. Archaolegy, for instance, we claim to bave arrived at its pasitive grade; and although ita lawa are hy nu means popolarly apprecinted, to have beome an certain in its resaits as any other buman ecience. A brief expaition of ita attrihutea mas prepare the reader for a just recognition of its atility.

ApXecss, artiquus, "anciant" and Acpos, \& "discourse," are Helledic wordg-menning, wheu mitad, in general accoptation, " discoures or trestise on the opinions, custows, and menears of the anciente." This is the definition of Archeology proposed by the sage Milin, (4),
sdopted by Lenomant, (5) and recognized by all trae acholere from Niebabr to Letroane ; especially among those intellectual giants who since Champolion's ers have solved the chief enigmas of hieroglyphical and cuneatic records. Archaography, as diatinct from urcherology, according to Fahricing, (6) is a term which should be limited to the stady of encient monuments eapecially, whereas aroheology emhraces arery procesa of investigation into all bistorical aubjects. Dionysias Halicarnassensib, in the first centary before C., and Josephus in the firat century after, treated upon Archcology, but entirely neglected Archaography, or the study of monaments; whence their meveral incoherencies: the former, bowever, had fome olear peroeptions of the trath when he named Archmology "the science of primitive origins."
Albeit, the word has deviated somembat from its pristine sense; for among the Greets sn archeologist signified s men who brought together the most ancient recollections of a given country; wheress, at the presert day, the anme is applied exclusively to him who, possesping intimste acquainiance with the monumente of a given ancient people, strivea through the study of their aharacteristics to evolve facts, and thence to deduce logical conclusion upon the ideas, tastes, propensities, habite, and History of departed nations; many of the greatest and most eesentiol of whom haring left hut fragtanentary pages of their stone-books, out of thich we their successors must reconstruct for ourselves such portions of their chronicles as are lost; no lesa than confirm, modify, or refate such others as have reached us through original, transeribed, or trasisted anocis.

Archmology, so to esy, has now become the "backhone" of anclent bistory; ite relntion to human traditions heing similar to that of Oateology to Comparative Anatomy; or to what: fossil retmains are in geological science. An Antiguary is rather a collector of ancient relies of art, then one who undergande them; but an Areheologist is of neceesity an Antiqnary Wha brigge every acience to hear apon the vestiges of ancient man, and thes invegts them with true historical value. In short, an Archeologist is the monumental historian - the more or less critical dealer in and disooverer of historical facts, eccording as by mental discipliae, diversified attainments, and the atady of things, he sequires thorongh knowledge of each particie preserted to his research emong the débris of antique bumanity.

Fere the simplest rales of this science popularly taught, we should not have to prolong the lamentations of Millin at errors prapalent for want of a little archeological knowledga. He nerratas bow Baroning took a atatue of Lsis for the Virgln Mary - bow the apotheasia of the Emperor Germanicus mas mistaken for St John the Baptiat's tranaletion to beavenand bow a cameo called "the agate of Tiberius," which represents the triumphs of this prince and the apotheosis of Augnetus, came to be long regarded as the triumphal march of Joseph! Neptune and Minerve giving the horse and olive to man would not bave been metamorphosed into Adam and Eve eating the forbldden apple; nor would a trumpery pottery toy bave been considered by Hia Eminence Cardinal Wieeman (7) as a Roman memento of Noah's Ark after the oniversal flood, although among its aximsis were "thirtyGive buman figuree!" Fithout arohaology, asys Milin, one is lisble with the historian Rollin to speak of the Laocoon as a lost monument - to dress up Oreek teroes in Roman garments - to adorn Hercules with a perruque a la Louis XIV! Siscp, at the court of Crcesus, would berdfy have sddressed himsolf to a colonel in French ondform; nor Strabo, in "Démocrite Amoureax," beve pointed bis quirving-glass at ateeples, and amused his leisure by making almenaca; neither would Horace oall Servius Tallius "Sire;" nor Racine have invoked a goddess as "Madame" in hia clansic playa. (8)

More than half a centory has elapsed since Millin wreto. Hundreds of arehmologista beve made their works accessible to the literary public. Yet so alow is the difuaion of

[^146]eritioal knowledge, that in our own land and hoar, there are still some not uncuitivated minds Who imagine the Aboriginea of this American continent to heye descended from the "Lost Tribes of Isreel " $(9)$-who see the Ruric scribblinge of Norsemen upon the Indian-gerstched Rock of Dighton (10)-Who, regardless of Squier's exposare,(11) yet suppose the local pehble manufuctured for that mutekm since 1888, to atteat Phanician intercourae with the moundbuilders of Grave Creek Flat (12)—and who, disdaining to refor to the long-pablished determinetion of ita psendo-antiquity, (18) still helieve that the gold zeal-ring of RA-NEFERHET, a functionary atteched to a bailding called, about the airth centary b. o., after King Smoopind, should have once adorned the finger of Creops, builder of the Great Pyramid in the thirty-fourth century $\mathbf{B}$. C. (14); thereby becoming 6800 instead of only some 2500 yemrs old!

The instances around us of the misconceptions, which the slightert acquaintanoe with the rudimente of archwology would consign forever to ohlivion, are intrharastible. Would that some of them were leas pernicions to moral rectitude! They offend our vision under the prostituted names of "Portraite of Chribr" (15) - they excite one's derision in the ludicrous anschronisms of modern ert carrent es "Pictorial Bibles" (16) - they bear witness to theological ignorance Fben Chincse are aseerted to be referred to in the BINIM of Lsaish (17)-and they amount to idiocy when ecclesiastics continue disputing whether Mospe wrote a sesh, B , or s daleth, D , in a given word of the Hebrew Pentatecach, notwithstanding that every archæologist lnows that the oquare-ktier characters of the present Hebrew Text (18) were bot invented by the Rahbis before the second century affer Christ; or 1600 years posterior to the vagae age when IeHOasH buried the Lawgiver " in a valloy in the land of Moab oppasite to Beth-peor; but no man bes known his aepulchro unto thit day."(19) But-" point de fanatisme méme contre le fanatieme: la philosophie a eu le sien dans le siècle dernier; il bemble que la gloire du nôtre deqrait êtra de n'en conafíre sucan." (20)

The above illustations suffice to indicate some of the utilitarian objects of the science termed "Archarology;" Which furniahas the ouly logical methods of attaining historical certainties. Its indispensebleneas to correct sppreciations of hiblical no less than of all other hintory, neverthelesa, ramsins to be proved by its application. We shall endeavor to be precise in our oxperiments; but, must not forget that "precision is one thing, certainty another. An sbourd or talse propotition may be made very precise; and, on the other hand, although the saiences very in degrec of precision, they all present resalta equally certnin." We propose to test the principles of archmological criteris by applying them to biblical atudiea, and to teat the anthenticity of one chapter of the Hebrew records through the former's appligstion: sad insamuch as Truth must necessarily harmonize with itneif, if srehmology be a true science the Bcriptares will prove it to be so incontestably; and if the Bible be abolate truth, arcbmology will demonatrete the fact. We need not perplex ourselves with apprehensions. It would impiy but amall faith in the Bible were we to suppose that arch-
(b) Denanini : Amarican Antiqubles.
 Het Iv.
 ariflelly nxumbed ${ }^{n}$ - Dec. 1848; pp. 813-324

(18) Ben ${ }^{4} A$ Cert ${ }^{n}$ : New York Cowrier and Enquirer 12 Feh 1883.
 New Yurk, 1859; plate Ho. 1001, p. 6.




 aped bed" - p. 49. nnd note.
(18) Oumpor: Oxia Pioyptian; p. 112; and infra, forther on.
(19) Dancrotiony 5xyiv. 0-CaHEX's translation.

mological seratiny coold affect the divine orfgin insisted upon for the book itself by those who make it the unique standerd of all acientific as well as of sil moral knowledge

Instead, bowever, of the ordinery mode in which biblical history is presented to us in books bearing the anthoritative title of profeseed "Christian Efdences," the requirements of archoology demand that we ahould reverse the order of examination. In liea, fer insiance, of meerting a priori that the Creation of the world took place exsoly " on October 20th, 日. 0. 4006, the year of the creation" (21)- or mantaining, acerthedra, with universal orthodoxy, thit Moses wrote the Pentateuch - it is incombent upod os, while we deny nothing, to take as little for granted. If anch be the ers revealed by the Text, our procoes will lead us to that date, with at least the asme precision through which Lightfoot (by What method is unknown), ascertnined that Anno Mundi $I_{1}$ "VIth day of crestion . . . his (Adam's) wife the weaker vescell : she not yet knowing that there were any devile at all . . . ainned, and drew her bosband into the asme trangression with her; this was abont high moone, the tme of eating. And in thin lost condition inte which Adsm and Eve had now hrought thomselves, did they lie comtortlesse till towards the cool of the dey, or three o'cloct afternoon." (22) If the Pentateuch was originally penned in the Mosaic autogreph, the proof will resile to our riew, throngh archeological dedactions, with the force of an Euclidean demonstration.

The analytical listramenta of archmology aro parely Baconian; vix: proceeding from the known to the onknown; through a patient rotrogreasive march from to-day to yeaterday, from yeeterday to the day hefore; and so on, step by step, backwards along the stream of time. Each fact, when verifled, thos falls naturally into ite proper place in the world's bistory; each event, as ascertained, will be found tabulated in its respective stratum. It is only when our foolsteps falter, owing to aurrounding darkness or to treacheroug soll, that we may begin to suapect historicsl ineccuracies; but, at present, we heve no right to snticipate any such doubta, considering the averments of cucumenic Protegtantigm, of the orthodox sects, that the Bible is the revealed ward of God.

Our inquiries bre directed to a single point. We desire to ascertain the origin, epoch, Writer, characteristics, and historical value of but one decoment: vis.-The Xuh Chapter of Qenesis; familiar to eyery reader. It is presented, howeper, to our inspection as one of fifty chapters of a hook called "Genesis"--hthis book being the first of chirty-ninc (23) bookd that constitute the compendlum entitled the "Old Testament;" and the latter is bound ap in the same volume with another collection to which the name of "New Testament" is given : the whole forming together that literary work to which the designation of "The Bibee" is reverentially applied in the English tongue - a mame derived from byblos, the Greek name for papyrus, being the most ancient material out of which its derivative popa was made. Byblus, the Egyptian plant, gave to the Greeks their aame for paper, and paper their name for "the hook" in ro $\beta, \beta$ hciov. On adopting Christianity, the Greeka designated their earliest tranglation of the Hebrew Serlptures, TO HIBLEION, as the book - "par excellence;" which words we moderns have adopted into our astional tongue in the form of "Dible."

With every desire on our part to ohtsin solution of our queries by the moat direet road and in the shortest mothod, we do not perceive the possibility of detachlng a solitary chapter of the Dible from the volume itself, until by archsological dissection we are ensbled to demonstrate that auch separation is fensible. In consequence, it behooves us to examine, with es much brevity es is consistent with perspicuity, the entire Dibld; and, if we hold "all the hooks of the Bible (2t) to be equally true," the Xth chapter of the first book will be found onquestionahly to be true likewies.

Soliciting that the reader ehould divest his mind, as far as in him lies, of preconceived biases; we invite bim to accompany us patiently through an investigation, in which the

[^147]subject banishes all orament, but that cannot fail to elicit some portiona of the trath.

The incipient steps of our analysis do not call for mach expenditare of eradition. In popular Encyclopedias most of the preliminary information may be verified by the curions render; for Calmet, Kitto, and Horne, contain catalogues of the various editions of the Bille, done into English, that bave been put torth, during the legt four centuries, from A. D. 1526 down to the present year.

At the sight of such catalogues of different translations said to procoed from one and the *ame origital, few can refrain from asking, in all bumbleness, why, if any one of them were absolately correct, should there have been a necessity for the others? In the course of studies carried over many years, we bave been at paing to compare sundry of the most prowinent English translations (among them ancient as well ns modern editions), not oaly with themselves, but often with the Latin, Greek, or Hebrem originala, of which each purports to supply a failbful rendering. They all differ! some more than others; but in each one may be found passages the sense of which varies essentially from that published by the others. Hence arose in our minds the following among other doubts.

Some of these Translators can have known litue or nothing of Hebrew - or they must have translated from different originala - or, they did not consult the Hebres Tert at alf, bat rendered from the Latin or the Greek vereions - or (what recars with far more frequency), each transhator, wherever the original was ambiguous, rendered a given passage in secordance with his own individual biases, or with the object of fortifying tbe peeulinr tenets of his Charch, Kiri, Conventicle, Chapel, or Meeting-house. Now, these discordant Bibles being thrust upon ne, esch one as the only and tree "Word or God," it is humanly inconeeivable that Goo should have uttered that Word in so many different waya, and thereby have rendered nugatory the comprebension of one passage, by permiting a transiation, in significance totally diatinct, of the eelf-same passage in otber modera editions. For instance, that the render may at once seize our meaning : there are few texis more frequently quoted, especially under circamatancea whare consolstion is administered; there are none perhaps that have originated such Demosthenian efforts at pulpit-oratory, or have prodaced in some minds more of those extetic emotions "that the world cannot give," than the verse wherein Job ejaculates -" For I know that my Redeemer liveth." (xir. 25). The " Ifultitude of those who are called Cbriatians," as Origen termed them in A, D. $253(25)$; the "Simpletons, not to say the impradent and the idiotic," of Tertullian, A. D. 245; (26) the "Ignorant" of SL Absaasius, A. D. 378 (27); and the "Simple believers" of the milder St. Jerome, A, d. 885 (28); have always imagined, in accordance with the lower scholarship of orthodoxy, that Job here foreshadows the Messianic adrent of Christ.(29)

The context does not appear, philologically or grammatically, to juatify such conclusion ; fusemuch ea the preeeding verses ( 1 to 22) exhibit Job - forssiven hy his kidred, forgotten by his bosom friends, stien in the eyes of his gaests and of his own eervants -overwhelmed with anguish at the acrid loquacity of Bildad the Shuhite, protesting vehemently agninst these accusations, and wishing that his last buming worde should be preaerved to posterity in one of urree ways. To sapport our riem, and to furnish at the anme time evidences of different tranalations, we lay before the reader three renderings of verses 28 to 26 . 'He can, by opening other translators, readily verify the adage that "doctors differ," although the Hebreto Text is identioally the same throughout.

[^148]I. Kina Jakze's Verion. The italicized words are the Tranglators'.

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" On that my wordm were now writien! ob that they were polnted [tic!] In a book?
    That they were griven with an iron pen and lead in Cho rock bor ever!
    For I know that my redetmer livolh, and that bo ahall atand ac tho letler dxy wpon the earib.
    And thomh aftor my shln woomed destroy thim body, yet in my flach thall I moe God"
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'The marginal reading, authority anknown, bubsitates-"Or, After I siall ataske, thategh this body be destroyed, yel out of my fesh shall I see God." In the authorised version, by the interpolation of "morms," Job is made a believer in the resurretion of the body: in the margin, be believes that he shall behold God "out of the flesh;" that is, in the sjurit? What did he believe ?
II. Norss, Net Trankation of the Book of Job; Boston, 1888; P. ${ }^{87}$.

23 " 0 that my worde wers now writicu!
0 tint they were lnectibed in a regreter!
24 That with adron pen, and with lead, They were engraven upon the rock for ever!
25 Yet I know my Yindionlor lirech, And will atend up at length on the earlh;
20 Apd though with my biln thla body be wasted eway,

- Yot lo my teak shali I see God"

Noyes (Votes, Pp. 144-6) says-_"Or we may render, Yet without fienh I shall tee God"and enumerstes cogeat " objections to the supposition that Job here expresses his confident expectation of a resurrection."
III. Cainen, "Jab;" La Bible, Traduction Nouvelle, avec l'Hébreu en regard; Paria, 1861; pp. 86-7. We render the French Iiterally into English.
" Would to (lod that my worlan were writtea: Would to God that they were traced in a book
Kitb a brifin of tron and with leadl that they were ongrarod for over it the roek!
But I, I know that my 'redemplor' is living, end will remalí' the lant upon the earth:

In the fool-note, Caben explains that the Hebrem word ${ }^{\text {b }}$, $\mathrm{K}, \mathrm{GALI}$, which be rendera "mon redemptenr," proceeds from the verh GAL, "to deliver ;" meaning likewige "reveadiquer ;" Which correrpond to the Vindicator of Noyes. The idea of Job's hope of a raterrection, itgelf a mythological anachronism, is popularly derived from the LXX and the Greek Fathers, with idean developed in the Latin Church after St. Jerome.

Thas the reader has bow hefore him three specimens, amid the wilderness of Thandations, wherein are involved theological dogtmes of "resurrection of the body," "redemption of the soul," and the antiquity of "Mesaianic prefigurations"- questions of no alight religious importance; and yet, withal, unless be be profound in Hebrew, his opinion apon the merits of either readering is alike worthless to bimself and to others; nor can he conscientiously distinguish which is veritably the "word of God " among these triple contredictions. The ridiculous anachronism perpetrated in king Jarnea's ecrsion (v. 23) that makes Job wish that bis words were "printed" (prohably 2500 yeara befora the art wan invented!) (30) bas long ago been pointed out; and is alone sufficient to destroy the alleged ingpiration of that "authorized" verae. For oaraelves we moorn that want of space compela the suppregsion of ame archbological rembrig on the "book of Job" (dyIDB meaning "L'nomo iracondo che rientra con rossore in se stegso"). We derive them from etadies at Paris, under on honored preceptor Michel-angeto Lanci, to whom we here renew the warmest tribute of respect and admiration.

To Anglo-Samon Protestantiam the biblical profundities of the "Professor of Sacred and Interpreter of Oriental Tongues at the Vatican" (31) siace the year 1820, aro entirely un-

[^149]lnown. Written in the parest Italian exclusively for the lettered-restricted to one edition of 125 copies for each worls, at a cost of 125 franes (325) per copy-and, for menifold reasons, artistically feahioned apon a plan not easily comprebended without an oral hety Lenci's enormous labors upon Semitic paleography, to the "profsnum rulgus" of theology, mast long remain sealed books In 1848-9, no copy of the Paralipomeni,(32) nor of the Seeonda Opera Cufica, (33) both published duriog 1845-7, at Paris (the latter at the expenge of Nicholea, Czar of Muscory), existed within the Library of the British Museum : notwithstanding that Lanci's volumes were for sale at two leading booksellers' in London; and that their absance at the Museam-Library had been formally notified to ita unnational "Powers that be." (34) The Fie Simboliche della Bibbict (knawn to us in ita author's manuscript) will not be puhlished for a period incslcalsble, beoause dependent upon human longevity. Our mutual friend, Mr. M. K. Haight of New York, is, in the United States, the sole possebsor of Lanci's work that we know of. (35)

History records that it was in consequence of the disorepancies, notorious among such franslation into Eaglish as existed at the beginning of the seventeants century, that, in the reign of king James, a new version of the Scriptures wes published : which duly received the royal, eeclesiestical, parliamentary, and national sanction, and is now consecrated emonggt os Anglo-Bayons as the unique and immeculate "Word of God"-the standorl of faith among Protestant communities of our race throughout the world. It is, and ought to be, in the hands of erery one; so that no obstacles to the rerification of auch quotations, en we shall have oocssion to maks, eniat at the present day among readers of Eaglish. As the docament we are in quest of, $\dot{X}$ th Genesis, is contained within this volume, we are compelled by the rales of srohmology first to examine the book itself; in order to obtain some preliminary ingight into its history, its literary merits as a Trantation, and the repute in which the latter point is held hy those most qualified to judge.

To aroid mintakea arising from confasion of editions, we quote the title-page ot the copy before us.-" THE HOLY MIBLE, containing the Old and New Testaments: tranglated out of the original Tongues; and with the former Translations diligently compared and revised, hy His Majesty's Special Command. Appointed to be read in Churcheg. London:

 sumani carateri sopra diffenfi matariz qpertici Perfri, 1846-4it ; qto. 2 vols.

(86) Throuph the Cherallere epirtolary kladnene, I am enabied to oorrect a former mistake, finto whleh other
 promeselar:-
"RONt, 18 OUtarte, 1851.

## "Gomen Aniol


 fyramid. That is not eceording to gramfetkal oxactaesa; because haram la not altogether rallical. The
 root (altituste). Faram, HRM, FIJt, therefore, the-athitude; and it in a synonyme of the Coptic pi-mam, fo which


 EaraBis. . . I Iranatibe for you the compiale arlele of mitue, which on pome cocanion may be of add to you:
"Artide taken from the ' Fie Simboliche ded Vechio a Nuova Teatamento' reparding a parsape in Job. ... [Wa have not two paget to epere, and therefore art compelled to omit the accile philological reatoblage of nar valued proveptor. - G. R G.] The ald two vorsob, moet entengled in the vendons of otherb, urough my bquirica now read- ${ }^{2}$ Now ahould I have quiat with the kigge and mighty-onen of the earlh who alrearly repoes in their subterranean bsbluations; or wllh the princes who bed gold and (who) cused their sepulchres to be flled
 of thet arduous verse 6 of Pmim lx ; ln which, it appeare to me, intorpreters have strayid awty from froth.
 they will see that ibla coniance of the Ftalm, in the place alovenomed, poaks with theralory locution4They closed to the enemy the oublerranesan shode in perpetulty: thou destroyolat tho cithor, end whit theme the memorial of thoe perished'" [Compart King Jamer's Forion']...

Printed by George E. Kyrt and Andrew Spottiswoode, Printem to the Queen's Most Excellent Majegty, and aold at their Warehoase, 189, Meet Street, 1844. [Nonpareil Boference, 12mo.]" The Dedication "To the moat high and mighty Prince, Jemek," stater that His "Highness bed onee ont of deep jodgment apprehended how convenient it mas, that out of the Original sacred Tongues, logether with comparing of the lebours, both in our own, and other foraign Languages, of many worthy men who went before us, there should be one more exact Thandation of the Holy Scriptored into the Ehglish Tongere"

It thus beoomes patent that onr copy is not printed in ons of "the Original Secred Tongues," but merely profesees to be a "more exaet Tramalation" into Rngligh then, at the date of its publication, 242 yessa ago, had proviouely appeared. Even conceding that the Holy Scriptares in the "Original Beored Tongues" may have been revenled word for Ford by the Almigbty, end granting thet their editio princope was a manascript in the autographr of divinely-inspired Bcribes, no reasonable person will deny the poesibility that this Englinh trandation may embrace some errors-none among the educated will be so onreasonable ta to ineist upon the infallibility of ite Rnglish trensletors, howeter eradite, however conscientions; nor perchance will olam inapiration for these worthies. Chidiohly eredulous as wor ore by natore, and uncritical though the generality of as remain through edacation, of enae Anglo-Sayons, since the middle ages, allow "divize inupiration" to met of their ours race. We accord the posaibility of "inspiration" solely to members of a single fumily that lived a long time ago, and a great way off; whose deacendanta (althongh nowaday ranking among the best citizens of our eis-Athntic Repablio) are still abased by oor hinsfolk across the wster; and who, allhough oontribatora to our ofra and the latter's welfare and glory, are yet debarred, as unporthy, from a votoe in the British Parlinment: and all this, forsooth, in the aame breath of seknowledgment that we derive our most sacred Code of Religion, Morals, and Lawe, from their ingired soostore! and whilst, besed upon omf modern notions of their macient creod, we nasally vociferste that they end ourselves are " of one blood as brothers"?

Our copy, guch en it is, may be aooepted whor besitation an a lineal desceadant of the primary authorized version in the English language, Wrested from the Lords Bpiritual and Temporal throogh the intelligonce of our ancestors, quiokened by the Reformation; tho bled for the same rights that we their porterity can now masert, in the free United States of America aud in Oreat Britein (without even the merit of boldness), riz. the right to examine the Ecripturet, and everything else, for ourselves, and to express our opiniona thereon in the broad light of heaven.

Arehoologically spenking, in order to incure minute oxectness, it would be imperative to collate, year by year, and edition by edition, the whole suocesaion of copiea of our "anthorized version"; and, by retracing from the exempler on ogr table backwards to that finat pristed in bleck-letter during the rtige of king Jemes, to asoartain whether any and what changes, beyond rartations in typography, may have been introdoced. Bat such dreadfol labor is, to the writer, imposaible for want of the seriea; ungenial to his thates as well es unnecessery for his objeols. He contenta himself with the asecrtion that there mre many differenose between such copies of divers editions that have fallen in his way, although comsidered by others of little or no moment; being chiefly marginal, an in the apperadded and sparions chronology; or copitular, an in the apocryphal headings to chapters, so.; neither of which can baye any more to do with the original "word of God," then the printer's name, the binding, or the paper.

As positivista in Philosophy while arohwolegista in mothod, we clear the table of these eom-parstively-trivial dioputations; and bounding retrogreasively over the interval that dividea our generation from that of His Majeaty King James, the reader is requested to take with ut the bistorica! ors of the promalgation of the "authorised version" an a common point of departure; viz.: A. D. 1611.

The most ancient printed copy of king James's veraion, that has been accessible to ons, Lies in the British Museom. It oontains a memorandum by the Rev. Dr. Horne to the effeet that the tillo-pages are of the primary edition of the year 1611, but that the rest nppertains
to that of 1618. The whole folio is printed in black-letter. Its frontispieces ars literary gens; and so faithfully portraying the symbolinm of Europe's "moyen age" in their astrolo-gico-theologicel emhlems, that every antiquary must deplore that castigating zeal which hes effeced such quaint expressione of ancestral pisty, to aubstitute for them, in some of our current copies, typographiosl whime that cannot preterd even to the venerable halo of bygone dayg. The title-page to the OAd Testament is embellished by viguettes, among Which fagre the Lion, Han, Bull, and Eagle; (36) ancient aigts for the soletices and equinoxes. Moses is trathfally represented, as in Michel-angelo's thatae, with his charactaristic horns; secerding to the Vugate of Exod. (xyxiv. 29, 80, 85), "eornyfa exset facies sus," which preaerves one sense of the Habrew KRN, horr. The sodisco-heraldic arms of the " 12 Tribes" of Israel are also preserved; (37) together with a variety of other aymbols, archmologically precioss. That of the New Testament is atill more corious, inasmuch as it exhibits the esoteris trankmisfion (perocived even as late as at that time by learned reformers in England) of cartain antique eymholisms of Hebrew Ecriptarea into those of the Orientalized Greeks or Fellenised Jews. The "4" solstitla! and equinoctial signe of the "4 meacons" remain, hat bre now attached to the ggures of the "4" Erangelists; while the zodinco-heraldic arms of the " 12 Sons of Jaeob" (Gen. xlix. 1, 28), whence the " 12 Tribes of Israd," lie parallel with and officiate as "pendents" to the " 12 Apostles," each with his aymbolical relation to the " 12 months" of the year, \&o. the whole, indeed, saving its ancouth artistio execution, so vividly solar and astral in conception, as to betray that primeval ※gypto-Chaldaic source whence stadents of hieroglyphical and cuneiform moonments, .-. exhumed and tranaisted more than two centaries aubsequently to the publication of our English "oditio princeps" - now know that the types of this imagery are derived. The reader, who seeke throughout our modern editions in pain for the onee-congecrated embellishments of ages past, may now perceive that we are not altogether ill-sdivised when binting that great liberties have been taken with the authorized English Bible between A. D. 1G11, era of its first promulgation, and those copies ostensibly represented in the carrent year (1868) to be its lipąal and nnmatilpted offspring. Theologically, bowever, these veriante through omission or commigeion are not of the same importance as ahey seem to be archmologically, nor need we dwell upon them now.

The accuracy of this English version, add its fidetity to the original Hebren sad Greak MSS., must rest upon the opiaion we can form of its Transintore; legalized by the royal seal and confirmed by an eot of Partiament. With the ralue of the twalast authoritief, regal or pariesmentary, in questions of purely-philological crithciam and of serictly-litarny knowledge, we American Republicens may be excured in declering that we bepe nothing to do. Until it is proved to oar comprehengion that the acquaintance of those worthy M. P.'s with the "original macred tonguen" was profoand, and that they devoted one or more Bqasions to the verification of the minate exnotness of the volame they endorsed, their fat upon the literary merit of the book itself carries with it no more weight in science than, to bring the case home, could the Presidential sigatare to an act of Congress authorizigg the printing in Aratic, at national expense, of the Mohammedan Kordn, in the year 1853, be aocepted as a criterion or even roucher of such huge folio's historical or philological correctuess.

To us the only admissihle evidence of the exactitude of king James's yeraion, as a faithful exponent of the " word of God" (originally written, and closed some 1600 gesra before that monarch's reign, in Hebrew and in Greek), must be twofold - hiftorical, and aregetical: the former, by entablishing the learaing, oriontal knowledge, critical skill, and integrity of the men; the latter, by demonatraling that rigid examination will fail to detent errors in the performance itself. Of this doplex evidence we now go in quest; remarking at the outset,

[^150]theh jasstanch as (precize date anknown) the gift of "divine inspiration" is said by Protestrats to bave ceased about 1750 geara ago with the last Aporth, nobody cluma for these English Trabalatora any supernatursl asaistance during the progreas of their pious labors; and, therefore, in matters appertaining to the merely human department of linguistic scholarrhip (whilst we doubt not their excellence as men, their sttainments, nor their good faith), we mast concede the chance that thair production, owing to man's proseness to err, may be found to fall ahort, in a liternery point of view, of the standard by which a similar performance would be judged were a neve Transiotion of the Old Tealemont "authorited," efter the same fashion, at the middle of this XIXth pentary.

## I. Thi Hiftobical Tegtimont.

In the year 1608 , owing to the enormous defects recogrised in all popeler transiations then current, the revision that bad been ordered in the days of Eliabeth was carried into effect by James Fiftyfour of the most learted graduates of the Universities of Ovford and Cambridge Fere appointed to the tagk, seven of whom died before the work was completed: (38) mong the last, Lively, (39) the best if not the only Hebraist on the translation, whose lebors were of short duration; and, " mach weight of the work lying upon his skill in the Oriental tongues," his loss whs irreparable; because the surtiving forty-acen tranalalors rejected the assistance of the only remsining Hebraist in England, viz., "Hugh Broughion, fellow of Christ College, Canbridge, who had certainly nttained a great knowledge in the Hebrew and Greak tongues." Indeed, eays the very learned Dellamy, (40) from whom wa derive the fach, "it was well known that there was not a critical Hebrsw scholar among them; the Hehrew language, no indispensably neceabary for the accomplishment of this important mork, having been most shamefully neglected in our Universities; and, es at this day [1818], andideses for ordere were admitied without a knowledge of this primary, this most easentis! branch of biblical learning. It was, as it is at present, tolally neglected in our schools, and afow lessons tsken froma Jew in term-Lime, whose buriness is to Judaize [l], sad not to Chrislianize, serye to give the character of the Hebraw scbolar,' in Englaod.

In consequence, then, of the inability of the forty-seven translators to read one (and the oldest, the aboriginal "divint word") of those "sacred tongues" of which their gerrile dedicalion mskes parade, "it appesra they confined themselves to the Septangint (Greek) and the Vuigate (Latin); so that this was only working in the harnesp of the first tranalators: no trenslation (excepling perhaps Luther's, 1680-1545), from the original Hebre: only, having been made for 1400 years," asy Bellamy.
"If we turn," continnes elsewhere this outrpesking Friter (mhose erudition nemo nisi imperitue will content), "to the translations mede in the eariy ages of the Chrisian Choreh, we approach no nearar the truth; for as the common tranglations in the European languages were made from the modern Septuggint and the Vulgate, where errora are found in these enrly veraions they muat pecessarily be found in all the tranalations made from them."

Whether the Vulgate and the Septuagiat veraion are fanltless will be oonsidered anon. Our present affair is with king James's translation, and certain'y appearances are not flettering.

We learn from Fuller, (41) hot at once, on ita first apparition, objeotions were raised against ita sccuracy in England; but as these emensted chiefly from Romenist echolarahip, in those days of reformation at a diecount, their velidity is alnered over by Proteatent ecclesiastics. Gradually, as Hebraical scholership struggled into existence-that such

[^151]gianta as Walton,(42) 1657, had redeemed the Oriental wisdom of Orfori - the voice of the great Dr. Kensicott (48) fras uplifted a centary later, 1758-9, proteating vebemently against the perpetuation of fallacies which the forty-seven translators' igaorance of Hebrew bad spread over the land through king James's version. He commences -.. "The reader will be pleased to observe, that, as the study of the Hebrew langage bas only been reviring during the lest bundred years," (44) \&o. - that is, only since the time of Hialton, his prede-cessor:- which passage implies that fifty years previously to the latter's epoch, 1657, (i. e., at the time of the forty-seven translators, 1608-11), the study of Hebrew was all but defunct, or rather it hed scarcely yet begun to exist; that is, in Englang.

1
This point was considered so familiar to overy geteral reader, that no besitation was felt when statigg it, 1849, with reference to the same question, (45) in the following words: "Now the Hebrem language in 1611 bad been a dead language for more than two thousand years, and thoagh theae men (the forty-aepen transiators aforesaid) were renowned for their piety and learning, yet very few, if any of them, were competent to bo important a task. In fact, the Hebrem langunge may be asid only to have been recovered within the last centary by modern Orientalista: and from the igoorance of these very translalora of the original lenguage, the Old Teatament was taken moslly from the Greek and Latin versions, vis: the Septugint and Fulgate. Being, then, a trenslation of had translations, which had passed through aumerous copginge, bow could it oome down to us without errors?"

Neverthelesa, Want of ordinary information on Scriptural literature prompted a reviemer, (with intrepidity characteristic of that undeveloped atage of the reasoning faculties which, in accordance with Comen's positive philosophy, has been already classed as "the theologieal,") to indite these remarks : - " Dr. Nott, agaid, spenkg digrespectfully of the English version of the Bcriptures. He makes the astougding assertion that 'the Hebrew language may be said only to have been recovered within the last century, hy modern Orientalists.' Most surprising is it that any one should believe that the Jewa should have wholly lost a mnowledge of their ancient and sacred tongue; and that a knowledge of it should only have been recovered by modern Orientalista, displaya an amaziag want of reading and ecbolar-like aecuracy, and a credulity exceedingly raro, except in an unbeliever." (46)
"Mutato domine, de te fahola narratur!" Under the head of KNaAN [supra, p. 49G], the "Association" may find a serieg of facts on the permatations, Which the so-called "Lingus Sancta" of the Lrraelites bas undergone, still more "astounding," where we took occasion to repeat and enlarge upon the pasitions of Dr. Nott's "Reply." In the meanwhile, the "ipse dirit" above quoted of Kennicott, that a century and a half poaterior to the fortyseven translstors of king James's version, the study of Hebrew was only "reviving," mey, by some, be considered as authoritative as that pat forth, in 1850 , in proof of the united echolarghip of an "Association."
"This only is certsin, that, in Nehemiab's time, the people atill apose Hebrew; that, in the time of Antiochus Epiphanes and the Maccabees, the Hebrew was atill written, though the Aramenn wan the prevalent language; and, on the contrary, about this time, and shortly after Alexander the Great, oven the leamed Jews found it hard to underatand dificult passages of the old writings, because the language had ceased to be a living speech. The reign of the Seleucida, and the new influence of an Aramman people, seem gradually to bave destroyed the last traces of it;" (47) and this about two thousand yeara ago!

[^152]Soak is the position of Hubrew in the worid's philological history at a apoken tongue; yets "s knowledge of that language which is contained in the scanty relica of the Old Teate ment bas been preserped, though but imperfeclly, by means of tradition Some time after the destruction of Jerusalem in the Palestine and Babylonian seboois, and after the elarenth century in those of 8 pain, this tradition was aided by the atudy of the Arabic language and its grammer. Jerome learned the Hebrew from Jewish echolert. Their pupils were the restorers of Hebrew learning among the Christians of the airleenth centory;" (48) that is, oo the continent; for, with the exception of Lively, wbo died, and Hugb Broughton, whose aid was refused, history dose not record any man degerving the mame of a Hebraint in Engiand, aven daring 1602-11. Fioally, "the name lingra acnefa wer first gived to the ancient Hebrew in the Chaldee version [raade long afler the Chrintian orm, when Hebres had orally expired, ] of the Old Teglaraent, because it was the luggage of the sacred books, in distinction from the Chaldee, the popular lenguga, whidh wes called lingud profana." (40)

Those citatione here seem indiapenseble, lest dogmatinm, peeping from out of its thealogical shryaslis, shonld feel itself again called upon to "astound" a reader by charging $\quad$ at with errors of its own commission: otherwise an apology would be due for this excorsme We return to Dr. KennicotL

After setting forth the causes of mistaken renderings in king Jemsa'e version, he declares --"A Ntw Translation, therefore, prudendy undertaken and religionaly exeented, is a blesaing, whioh we make no doubt but the Legislature [!] within a few gears will grant us." (50) Bix years later, finding bis bpmble prayer unheeded, he comes out clamorously againat "our euthorized version": claiming that bome of the earlier English trantlations were more faithiul and literal, (51) and backing bis appal with the sabjoined among other examples: -

Lufe xiiii. 32. Cenist made a malefactor ! "And there were also two other malefactore led with bim to be put, to denth;" instend of "two others, malefactors." The Greek reads simply, "And two others, evil-doers." (52)
Judges xv. 4. Three buadred foxes tied hil to tail, instead of theaten sheaves placed end to end! "And Samson went and caught three buodred foxes, and took fire brands, and turued tail to tail, and put a firebrand in the midst between two taile." The Hebrew is, "And Bambon ment and gathered three hundred ahospes of whent, and taking torches and turning (the sheares) and to end, set a torch in the midst between two onds." (63)
1 Kings mii. 6. Elujat not fed by ravena, but by Arabs! "And the ravens bronght bim bread and leab," \&o. In the Hebrew, "And the OBBIM (aReB-im) brought bim bread and fesh." Kennicott thinks Orlam, inhabitants of Oreb, or Orbo-" rilla in Gnibus Arabum," aays St. Jerame: but, Arabe seem to an more niacural and correct In no contingency "crows"! (54)
It is superfluous now to continue our excerpta from Kennicott, or narrate how it comea wo pass that, owing to nice appreciations of the Text that none of them could construe, the foriy-seven (in Paslms cix.) bave made pious king Dasid (dispoted author of that

[^153]rhapsody) (65) utter sach fearful imprecstions aganst his foes; when, in the "ortginal sacred tongae," he actunlly complaing that his enetnies are heaping these outrageous maledictions upoe himself!

Well might the Reveread Doetor quote Miohelis - "I am amazed when I bear some men vincicate our common readings with as mach zesl as if the editors had been inepired by the Holy Ghost I" Still better doea be terminate his earnest work with supplioations for a new Hebrew Text, and for a new Eagligh "authorized " trantation.

Reader, theae thinge were pabliahed at Oxford and diaseminated over Great Britain about ninety-four jears ago - not in expensive folion veiled throagh the dead langanges, but in two Englinh ociavor - not by a "skeptic" Whoae indignation at any kind of imposture impels him to epurn it, but hy that Chureh of England Dirine, collator of sir huadred and ninety-two ancient Hebrew biblical manascripts, (66) whose folios, together with the Biblia Polyglotta of his illastrious precursor, Walion, are the only English labors on the Scriptares that receive homage from continental erodition, as performances on a par with the coloysal reaearehas of Germane, Freachmen, and Itaiana, even unto this day!

Kennicott pasaed awny. Other schoiars followed in bis footsteps. From a fow of the latler we oxtract what they bave left in print reapeoting king James'e version, with a prefatory ciration from Bellamy, to whom we owe the collection.(57)
"It is allowed by tbe learzed in thin day and every Christimn nation, that the authorimed translations of the sacred Scriptures, in many places, sre not consistent with the original Hebrew. A fer extracte are bere given, from some of our woat learned and distingoished writers, who were decidedly of opinion, that a New Translation of the Scriptures was absoJutely neceseery; not only on account of the great improvement in our fagguage, but becanse the Tranelators bave erred respecting thinge most essentinl. The following are some of the eminent men who have left their testimony concerning the necesaity of a nem trenslation:-

- Were a version of the Bjible executed in a manner saitsble to the magnitude of the nudertaking, sucb a measure Fould have a direct tendency to establish tbe faith of thonsande. . . . Let the Hebrew and Christian prophets appear is their proper gerb : let us make them holy garmente for glory and for benuty; . . . the attempts of individuals should be promoted by the natural patrons of sacted learning.' - (Biabop Nbwcomse.)
- Inuumerable ingtances might be given of faulty translations of the divine original. . . . An accurste tranalation, proved and aupported by saored criticism, nould quash and ailences meat of the objbotiong of pert and profane cavillere.'-(Bladimell's Sac. Chane. Pref., 1731.)
${ }^{4}$ Our Euglish version is undoubtedly capable of very great improvements.' - (FarreLaxd's Scripl. Vindicated, Part 8, p. 64.)
' Nothing would more effeotually conduce to this end, than the exhibiting the Holy Seriptures themelves in a more advantageove and jast light, by eo soourate rorisal of our vilgir translation.' - (Dr. Loprn's Viniat. Sarmon, at Durbam, 1758.)
'The common version has many considerable fanlta, and very mach needs another revief.' -(Biblioth. Lit., 1723, p. 72.)
- The Old Teatament bas guffered much more than the New, in our Tranalation.' - (Doddhidas's Fref. to Famity Erporitor.)
- Mady of the Inconsistencien, improprieties, and obsourities, are oceagioned by the tranelators' misunderstanding the true import of the Hebrem words and pbreses, shoving the benefit and expediency of a more correct and intelligent translation of the Bible.' - (PILELsaxon's Remarks, 1769 , p. 77.)
'The version now in use in many places does not exblbit the sense of the Text; and mistakes ih, berides, in an inflite namber of inatances.' - Dorsbli's Cni. on Job, 1772, Pr.f.)
'That necessary work, s Nem Translation of the Holy Scriptares.' - (Lomia's Prelin Dissert. to Soaiah, p. 69.)

[^154]
'At this time, a New Translation is much wanded, and universally called for.'-(Gnexis Preface to Poetical Partr of the Nere Test.)
'Great improvements might now he made, becsase the Hehrew and Greek languagea have been mach better cultivated, and far better understood, since the year 1600.' - (Dr. Kennicott's Rewarks, \&c., 1787, p. 6.)
'The common version has mistaken the true sense of the Hebrew in not a few pleces. Is it nothing to deprive the peaple of that edification which they might baye received, had a fair and just expoaition been suhstituted for a false one? Do wo not koow the adrantages commonly taken by tbe enemies of Revelation, of triamphing in objections plansibly raised egainst the Divine Word, apon the basis of an unsound text or Wrong tressiation?' -(Blanex's Prelims Disc. to Jeremiah, 1789.)
-They [the forty-seven] are not acquainted with the Hebrew, without which no man should pretend to be a critic upon the writings of the Old Testameot. It hes some peculiar properties and idioms which no other language has, with which every eritic aboald be equajnted. . . The Hebrew is fixed in natare, and cannot change. . . . He shond be acquainted with the genius of the Hebrew tongue, and with its manar of exprescing epiritual things, under their appointed images in nature.' - (Romains's Forks, vol v. p. mio)
' It ia necessary thet translations should be made from one time to another, accommo dsted to the present use of speaking or mriting. This deference is paid to the heathen cisesios, and why should the Scriptures meet with lebs regard ?' - (Popfre)
'The common English tranalation, though the best I have seen, is capable of being brought, in several places, nearer to the originsl.' - (Wracre.)

For other arguments, continnes our suthor, see Bishop Newcombe's "Chief reamen in support of a corrected English translation of the Scriptures for national use: "adding on hie own account: -
"Notwithatanding all that has ben done, the translatora bave len it [our version] defective in mood, tense, person, gender, infintive, imperative, participles, conjunctions, ke.; and in many instances, almost in every page, we find verses consisting in a grest part of inalio; in some, a third part; in others, nearly half; as may be seed in the Bibles whero the words for which there is not any authority in the original are always bo marked."

## Descending into works of less exclusive ciroulstion, what do we encounter $\uparrow$

"It is not to be denied that a translation of Holy Bcriptore, if undertaken in the present dey, would have meny advantages saperior to those which attended king James's transhtion. The state of knowledge is much improved. ... Oor language has andergone arme changea in the courge of two centariea, by which it has varied from being precisely the same as when our tranglators wrote. Many words which were then polite and elegant, ure now vuigar, to say the lent. . $\therefore$. Nor can $\pi e$ refrain from complaining also of the negligent meaner in which the preas has been conducted in all our pablic editions: what asoald be printed in poetry is set th prase; what ahould be merted as a quotstion, or a speech, reeds like a common narrstive. . . . And this perplexity is oecasionally increased by improper divisions of chapters and verses, which but too often separste immediste connection. . . . Ondoabtedly, the present version is sufficient to all purposes of piety."-(Taplob's Calmer'a Distionary of the Holy Bible - voce "Bible.")

[^155][^156]diecovered; . . . and putting alterationg made knowingly, for the parpose of corrapting the text, out of the question, we must admit, that from the circumstances connerted with transcribing, some errata may have found their why into it; and that the sacred Scriptures bavo in this case saffered the same fate as other productions of antiquity. . . . In the lest 220 genrs, critical learning has so mach improved, and so many nevemunderipts bave come to light, as to call for a revision of the present authorized version."-(Srars, Hist. of the Bible, 1844, pp. 651, 665.)
"The second thing which I would strongly recommend, is constantly to study and pernse the Original Scriptures; the Old Testament in the Hebrew, and the New Testament in the Greek. . . . There is no sach thing as any written Word of God indepeadent on the word of man. The Lord Jehovah may have uttered the whole Law from Mount Sinai; nad, yet, Moses may not have accurately recorded it. . . . In like manner, the Gospel may have been fully preached by Christ; and, yet, the Evangelists may not have fully recorded it. ... One painful conviction is, that the plain import of the Word of God has been toost fantatically, ignorantly, and wilfully perverted, as well in the trangiation as in the interpolations. . . . Many groes perversions, not to say mistranslations, of the Sacred Text have been occasioned by dogmatical prejudioes and sectarian zeal.,"-(Rev. Jogn Oxher, Letters to the Archbishop of Canterbury, London, Hatchard, 1845; pp. 117, 137-8.)

Fyerunt autem, relates Kennicott, qui do hac re alfter senserunt: among the nom-extinct is the Rev. Dr. Horne, who makes the Gercest batlle in defence of "our authorized version;" quoting many writers on the opposite aide to ours, whose combined "association," like the one prelauded, fails in euthority for want of ITebraical knowledge in its parts; but, when the best is done for it, he naively remarks on our trasalation - "It is readily admitted that it is not immacolate; and that a reviaion, or eorrection, of it is an object of desire to the friends of religios" - and then the reverend gentiemen breake forth in rbapsodical glorifications and thankegivings, that it is not worse! (59)

Nor we the eradite among Christians alone the denouncers of king James's version. Anglicised Israelites hold it in estimation equally low, to judge hy the following Editorial:
*What we should like to ses at the World's Fair.-It would give us a great deal of pleasare to see at the World's Fair a correct Euglish veraion of the Dible, resting apon the solld fundsment of the resolts of modern criticism; reaching the eferation of modera science, and being accompliebed by men of a thorongh acholestio edacation, and free from every foreign influence, who take the ietter for what it is withont paying any regard to euthorities, and without coming to the task with a certain quantity of prejudices. Sach a work would retoncile sciance and rellgion; it would reclaim many an erring wanderer to the stroight path of trith ; it Fould ovaporate many a prejudice and a superstition; it would gready modify many sectarian views, and would clobely unite the men of opposite mations. It appears, however, that the men for this task are not yet among the mortala; for the theologians come to the Bible with an established aystem, which must lead them arry from the tras import of letters, where they find again their own syatem whenever it can be done conveniently; and where their sentimenta frequently overhalance their critical judgment." -(The Asmonean, New York, July 22, 1863.)

Thus we might go on, citing work after work wherein, if king James's version is not denounced for its perversions of the "original sacred toagues," its erroneons readings are more or leas spologetically hut thoroughly confirmed hy many instances in whioh the eradition and fairneng of the anthore compel them to eubstitute their own translations for those of our "authorixed" copy. Notable examples may be seen in the recent work of our much-honored fellow-oitizen, Dr. McCulloh. (60).
Albeit, an asid before, if our version wert decently aceurate, why should ao many laborious med run the risks of incarring some theological obloqny, conpled with pecuaiary loss, in efforts to correet the false renderings of that superannusted edition by pablishing emendatory retranslations in English' Among the many wo bere conealted mey be cited:
"The Holy Brale, according to the eatablighed Virgions, with the exception of the aubstitution of the original Hebrete namet, in place of the words Lord or Gov, nad of a fem corrections thereby rendered necessary. (London, 1830; Westley and Davis.;"
This book, however, seems to have closed at 2 Kings. The minitisted may be informed

[^157]thet the word "Lord " of oar Ferrion render menly the Domizus of the Vulgete, and the Kepoer of the Septuagint, and does not directly tranalate the orfginal Hebrvew word IeHOanfi; the latler being euppreseed, by "His Majesty's epechal command," in the "authorised " copiea, only 6846 timar ! The number of timed it occurs in the Hetries Tect are 6855 : (61) on which bereafler. Another is: -
"The Holy Braze, containing the authorised version of the Old and New Testamentes, with terenty thowand [ $[$ ] emendations. (Londan, 1841; Longman, hrowa \& Co.)"

Its atte attrected our notioe, as bayoring of a Tawic genus lown as Hibernian; aply illostrated in that "game old knife which belonged to 'my grandfather,' after haring received thirtean new handies and seventeen new blades." The preface justified our frat impressions, when we read -.."This is our adxhonazed Enolise vxesiox, which is characterised by mequalled fidelity, perspicaity, simplieity, digoity, and power. . . . No one bas yet delected a ringle error [in it!!!] in referenoe to those great and vital trathy in which ell Christians agree." After which, where the utility of 20,000 enandations $f$ Suffice it, that, mangre this bage amount, not perceivigg any of the catalogue of "emendations" herainafter subaitted to the reader, we refrained from its purchase, aflar * morning' examination. $^{\text {s. }}$

A third, which we have long possessed through the kindness of ite publishers, merits ettention, and is unhered by a most excellent praface:-
"The Hocr Btaly, being the Engligh verbion of the Old and Nev Testaments, made by order of King James L, carefully rroired and anended, by several Biblical Saholara. (Sixth edition, Philadelphia : J. B. Lippincott \& Co., 1847.)"

After a brief aketah of preoeding transiations lnta Engligh, from 1290 to 1611, the prefoce states - "Prom these facta, and from comparing the tranalation of king Jamea with those which preceded it, nothing is more obvious, than that the common version is but a revision of thoee exeouted by Tindal, Coverdele, and others, and that, however oxcellent it may be, the paramonnt praise, under God, if due to Wililny Tinoal and Miles Coverdale." In the sbove sentiments we heardily concar; hasing enjoyed opportunities, in the course of our studies, of comparing some pointa in both of the latters' selfancrificing editions with the so-allled "revition" of the forty-deom. Avredtarret, however, Jike Abderitan Derocrifus, in some branches of Oriental philology; and posseasing, Arthermore, an apparatos tolershly compiete of continantal criticism in biblical matters; we prefer direct references to the Hebrev Text, now randered acoeasible in a very handy farm, and illumined by Cabea's most usefal parallel French transigtion.(62)

From the nature of these premises it will be seen that, eave nnder the reientifio point of view and for the genersa cange of haman enlightenment the writer, se an individas, is not urgent in exacting another "anthorized" version of Texts to which he has acquired (what any man who really is serions in soch mattort can aequire as he has) aecess for himself. At the present day that in Proteatant conntries, such as Great Britain end the Uaited States, it bas become a common practice to worthip king James's translation, and "atady divinity;" that our Bnglieh reraion, with all the nnnecessary deriations from its Helrew prototype, is reverenced by the massen as a " fetiche," or viewed with a relic of that bermiidolatrous a we refused hy Proftatants to crucifices, pictures, or images, onr observationa may perhaps seem lndecorous to those who choose to eramp their intelleets and continne to igoore the splendid reaults of continental exegesia. We should regret the fact, the more so because offence is anintentional; but, "the epoch of constraint has passed away [in these United States] for ever: a freeman mill be free in all things; material and political omancipation anfice no longer for him. He knows that there is a sublemer liberty, that of thought and belief. It is with sorrow that he beholds those aweet illnsions Geeting away

[^158]that whilom had been the okerm of his childhood; but reanon exacts it, and he asoritoses his itlusions upon the altar of trach" (68)

Of that wherein the aspirations of a Newoombe, a Lowth, and a Kennicott (to smy nolhing aboat others of the best of England's biblical crities), have been baulked, it would be at this dey egregious folly to entertain further hopes, viz: that the Britisb Lords, Spiritaal end Tempora, will, in our geveration at leseh permit such a radicsily-correct $r$-trantataion of the Hebrew Scriptares as would supersede the fuiger version "appointed to be read in churches." Tbe Uaiversities, especielly the Oxonian, - part of whoue aupport depends, like some institations on this side of the water,-upon a "Pook Concern," would oppose such violation of vested privilegan. Hy the evangelical dissenting sects, sumery of whose vious hiesarchiea derive sabsistence from those very lingaiatic quibbles that a new stendard varsion woald obliterate, anch ep proposition would be repelled with devout borror. Bzoter Gall shudders, even at tho thonght: "Bible Societie"" whine that the reign of Anti-Chriat is coma indeed. As positivista we lament not that our briof span of life will bave been measured, long before a acto Rnglinh version may be "nuthorixed;" because, through the elow bat onerring laws of humen advencement in lnowledgo, by the time that theolegites ahall have accomplisbed their metaphysical tranaition and have awakened to the etern reslities of the cose, the development of science will have rondered any nee translation altogether auperarogatiory amorg the educated whe are ereating now raligions for themselves.

In the utternace of these long-pondered thoughta, though written years agg, we have been sonewhat antolpated by our learned friend MoCulloh; (64) with a quotation from Whoee admirable ohapter on the "Value of Translationg" we conolude this historical dirrcion of the two-fold evidenoe.
"No emendation however of our common translation would affeet the revelations made in the Seriptara, upon any oubjeot which Jahovah bas directly addressed to the underatanding or consciences of mankind, whather as regards their faith or prectice. That a new translation would considerably affect oor theological oreeds, or our ecclesiaslical institations, there is no doubt; but this again is a most desirsble object if such things are not secordant to the undoubted word of God. No Christian in his senses can wish to remain ander any error reapeoting the import of Jahovah's revelations; and bence nothing onn be more absurd than to oppose a correction of our common translation, on the ground that it would overturn some of the inventions that theologians have heretofore construoted upon the comparatively defective Hebrew or Greek Texta apon which that trabalation hea boon made.
"The popular objeoctions of unlearned persong to the amondment of our prexent tranalltion, however, are often, unfortunately for Cbristianity, subtained by learned men and accomplished scholars, whose interests or whase prejudices are too deeply involred in the present condition of things to be willing to admit of any innoration. Their creede, inatitutions, and occlesinstical eatsblishmente, for the most parh, wers constructed contemporaneously by divines or statesmen of similar theological or ecclegisatical views with those who made our authorized veraion. To ohange the terms or texts of Scriptare that have been heretofore used es the basis for eoclesiastical institutions, or theological assumptions converning divine truths, are ehocks too violent, either for the pride or self-intereats of men, to acquiesce in willingly..... Dr. Vicesimus Knox, (65) of the Church of England, seys, 'For my own part, it I may venture to give an opinion contrary to that of the profound cllators of Hibrew Hanucripth, I cannot help thinking a new translation of the Bible an attempt extrenely dangetrous and fuite unneccesary. Instead of serving the cause of religion, vhieh is the ostennible motive for the wish, $I$ am canvinced that nothing would tend more inmediately to shake the basio of the Estanlisument' (i. e., of the Cburch of England). 'Time,' says the reverend gentleman, 'gives a venerable air to all things. Sacred things acquire pecaliar enacity by long durstion.'"
And finally, the nalettered dogmatiat who, possessing no knowledge of the real merits of the topics before ne, would thrust into court "his" opinion, may as well be told by the reader, that:-
"At the rational point of view, a sentiment suck as is termed Christian conscience, a

[^159]sentameat that reposes upon suppositions, has no voice in eaitntife disonssiona; and, every time that it would meddle with them, it ought to be called to order through the eimple diotram: 7actat mulier in aceletia." (68)

## IL - The migartical Eviderice.

"Eh! dateri pace, a teologoni di recahis scaols, che le verita vuol risplendere anche a traverso di quel denzo velo che la igooranze di alouni di voi ai prearme di opporle. Intanto per apprendimento vostro fatevi or meco a leggere qualche altro versetto in cui . . . skra pare una di quell' ease novitd che a' preoectpati leggitori fanno strabuasie ocehi e naso eggrinzare." (67)

The foregoing section hes propared the reader for the "experimentom crucis" to which We now propose submitting verions pasages of king James's version, by way of testing the vaunted accoracy of ite forty-seoen tranalatora. Three of these inotances have been already indicsted; (68) one of which, wherein Job longed that his apeech should be " printed in a book," pas noticed above.

For conveniebce sake, having now a few more of these literary edriositiea to present, we will tabulate them ander alphabetical sigas, and prefir to this initial getn the letter

## A. - Job xix. 28.

One almost biushes to make this imbecility more palpable to general inceligence by recalling to mind that block-printing was unknown to Europe prior to A.D. 1428, and printing in types before 1457-although the former invention existed, according to Stanislas Julien, (69) in China at A. D. 598, and the latter about 1041. Yet, by this "tranalation," the patriareh mat have foreshadowed the ert six to ten centuries previoualy to the advent of Christ! Like every writer comprieed in the Old Testament Canon, Job knew as much of Chiza as they all did of America; thet is, to be frank, just nothing at all. How forty-steren ablebodied men could heve overlooked this blunder while "correcting proop," surpastas comprohension; unless we ourselves perpetrate saother anachronism, as well es a pitifal conondrum, and auppose that "Job-priating" may have buggested some insppreciable afinity between the Anglo-corrupted name of that venerable Arab and the glorione art Fhat more simple than to have printed what the "original ascred tongoes" read, "inseribed in a regither"
B. - Job mxii 85. [N. B. The firgt citationg almays present the tertualizies of king James's version.]
 divermer bad witten a book."
Can haman intelligence tenderstand what poesible conneotian Job's supplication, that God should roply to him, can have with his individual oraring that his own unnamed enemy should have indited a book? If this text be "divinely inopired" in king James's veraion, then "the Loed bsve mercy opon his creature" arehcology! Decause, were these words anthentio, logio could prove: -

1. Tbat, at least 2500 years ago, polemical works in the form of "books" ware not unknown even in Artbia.
2. That insemuch as Job could bave no benevalent motive in auch wish, vered as he felt at the aggravations hesped upon his distressing sfllictions by his proverbis? comforterf, and knowing, se he mast necessarily beve done, the power which a Reviewer has over an author, he longed, with rindictive refinement, sis the most terrible retribution to be inficted upon an edversary, that his particular enemy should actually writo a book, in order that Job might review him; probably, as Horsce Hmitb conjectured, "in the Jerssalan Quarierly."


(t6) Mort; Op. cit.; pp. 184, 182.


## Cahen renders --

"Alast that I have not one who hearal Bebahd my meriting - let the Almighty answer me - oud tho boak ediled ty my edverse perty." (70)
This version (for reasous to be elsborsted elsewhere) is unsatiafactory, like all we bave seen, but Lanci's; because bmong other overighte it doea not afford due weight to the word TaJ; veguely rendered "sigt" or "mary" in Ezekiel ix. 4. TaU is the name of the last letter in the port-christian square-lettar slphabet of the Jews; which 142 years $\mathrm{y} . \mathrm{C}$. . on the earlier Macoshee coinage wis oruciform; sometimes like the Lafin, at others like the Greek erose. (71) At the time when Exekiel wrote in Chaldes, during the sixth century B. C., this ornaiform letter was the one he must have ased, wo less than the ahape of that "mary" which should be stemped upon the forehesdr of the righteous. Ite etymological and figurative meaning was "benediction" or "abaolation;" just what ita descendant, the "baptismal algn" (drewn with water on the foreheads of infonts) signifes at this dey. Esekiel's TaJ had no direot relation, boyond a distant resembiance in shape and perhaps an ocealt one in hierophantic mysteries, to the "Crax Ansate," or the sign for "Ankb," eternal life, of the more ancient Egyptian bieroglyphics; bat ite origigal is now-a-days producible from the cunaform monumente of Aseyris; thongh our demonatration of the fact muat be reserved to other opportanities.

It is one thing to prove that the forty-seven were wrong in their sppreciation of the "word of God:" quite another to emalate the presomptuous part of theologians and diotate dogunstically the English sense of ancient texts in themselves obscure. Oar task limits ingelf to the former offee in this essay; hat, not to shrink from the ntlerance of what little we know, the folowing free rendering indicates a probsble colution of this tortared passage, and combines Lanci's with other views:- eays Jon, "Who wild give mes one that will listen to me? [i e., es my judge]. Behold! (here is) my TaU [i. e., he holds up mesonicaily the erweiform emblem, as his "sbeolution"]. The Omnipotent will answer for me [i. e., gusrantee me, be my surety, become responaihle for me - "that I seek not to evade," understood]. And now let my opponent write down his charge [i. e., let my eccnser, my calumniator, put hin aceasations into writing-"that everybody may see them," underatood].

And, while on the rabject of $T a \bar{C}$, we may continue our expurgations with other exnmplea.
C. - Pealms lxiviii. 41.
"Yen, they turned beck and trapted Good, and limited the Holy One of Irrwe.".
Bed as the Jewe Were, in thin case they did procisely the oontrary! "The Peslmist," says Lanef, (72) "celebratas in this onaticie the marrele which the Lord had done in behalf of rebellious Inrael; nevertheless, as the latter finished by conversion, God pardons him and spreade over the culprit the most emple bounties. Conversion, therefore, is the import of thie rerse, and then it is said-" they (became) converted, they suppliested the Puiseant, and implored TaU [L e, "absolation," or "benediotion "] of the Holy of Irrael."
D. - 1 Samuel xi. 10-15.
 morcents of Aebleh ald unto him, $\boldsymbol{L}$ not thle Dayd the king of the land f did they got slog one to

 And he changod his behovier bofore them, and falgued blowalf med in thoir hatid, and errablad on the doors of the getce, and let hif epittie fall down upoc bis beard. - Then eald Achloh onio bla
 of meimen, thit ye heve trought thin firioud to play the medman in my presenceo ihal this faron tome tolo my honse?"
Reminding the reader thet Dayid, beeides being the warrior-king, was Israel's bard, we let Lanci spesk for bimeelf:-"The LXX (Greek) made s periphrasis at the frat verse, and
(70) $O_{p}$ at ; Fol. 17. p. 143.


added to the (Hebrew) Text by twice mentioning the gates of the city, finot to make David play upon his harp, and eftermerds to canse him to fall against the asid getes Thare is perhapa no pessage in Acripture that has been more completely dematuralised through the obseurity of a single Ford. It is evident that Devid bad altogether a part more dignified, more rassonable, to adopt than to connterfeit a lunatic; and moreover that Aehish did not display great esteem for his court by esying that madmen were not panting in it But the famoss $T a U$, misunderstood, has throwasilinterpreters into orror. So we pill give to it
 now] does not aigoify 'door' in this pasesge, bat poerry, as ite Arable root teeohea: palete bes the value of 'door' in the same sense that Chaldees and Arabe onll 'doors' [bdb, bibdn] or 'houses' [beyt, beyodt] the atropher ; that io, those comerencemeate of chapters end of apophes that we [ILalisns] cell] 'stanse' [日ad that in Roglinh io edopted for poetry in our word atansas; a word that in Italian, like the above nouns in Oriental apeooh, han the double meaning of 'stanss' and 'chember']. If it be insisted that Derid was mings it will bo, then, with partic furor -.. the prophetio transport that eaimated him: bat the Arsbic root allsaid, which signifies to exhibit valor, bravery, cosrage, accords mach betaer with the context. These few raye of light ought to be onfficient to dissipate the thick tenebrasities which Translators have piled upon this divino nerrative. Fis may thenoeforand give $t o$ these verres a reasonable tranalation and worthy of the majesty of Scriptrure: 'David sroee, and fleeing on that day from the prasence of Saul, came to Achith the king of Gath.-Thes the eerfande of Aohigh said to him, 'And is not this David king of the earth ? is it not in hig honor that it was sung in chorus [not, at ancient baceangoe ! ]: Band has killed a thousand, and vavid ton thousand!'-David weighing these Forda in his heart, feared greatly in presersoe of Achigh king of Geth.-IIt was for this that in his prosence, the [Darid] calehreted their power in a varied hymas and in inspired peraes; and, at each commeneement of a atrophe he made TaU [i. e., be made 'benedistiong' - he blemal them] ; and already the sweat was dripping opon the chin's honor [i. a, upon his beard in Oriental phraseology] when Achish interrupted him, and and to his servent: ' hearkea to this man who effeota inspiration [literally, 'comer the inspired']; ere poets [bards, inprowiatolori] wanting to me, that you must bring this one to celobrate my power 9 and ahall (buch as) be come into my house !' Nevertheiess, David escaped, and took the road that condreted to the cavern of Adulia." (78)

Who anem most "creoked," David, or the bibliolaters of king James's version?
E. - Laviticus $\mathbf{~ i . ~} 20$.

To os, likewise! "Fhars ares," invalubble howaver to musenme of Nataral Bistory. Not merely, were this prohibition anthentio, did four-leggedfforle axist in the dayt of Momes, but the inhibition to eat them would now be worthless to a Caralte Jew, because the lireed is extinct. Cahen rendars - ${ }^{11}$ Every winged-inaect [or literelly, figing-oreping thing] What walks upon four [clacu, feel, understood] is an abomibation unto you."

Dwelling not opan verse 21, although marrelling low "lega" could be placed anaiomioully elsewhere than "above their feeh," we refreshex ourselves with
F. -2 Kings, vi. 25.
 for horscore pient of suver, and the tourth pert of a cab of doved dung for tre pirat of dilver."

> " 8terohold and Eapkina bad grant quasima
> Whan thoy trenslated Derke's poalma";
but the sufferings of thene poor men were infinitesimally small compared to theas the forfyacoen would have experienced had they partaken of that delicate repast, for about twothirds of a pint of which the starving Samaritans paid such monstrous prices: Pigan's dung, or "doves'-dang," oping to the quantity of ammonia it containg, is still used throughout
the Best, in the abeence of modern chemistry, to give temper to Damascene aword-bledes, s. It sharpens weapons, not appetites! Can one oonceive s homen stomach, however depraved hy want, alimeried upon "guano " " Boehart, (74) two ceatrries ago, abowed that "pois chiches," in Italian ceci, in Boglish "shick pes," - the commonest Oriental vetch, or pes, - is the rationsl interpretation of the word; and thas the only exigrons preserved is, how forty-recen Englishmen could beve committed a mistake so extraordinary. The ohsolete word "enb" aptly illustrates bow imperative it has become, throngh uosvoideble changes of langage mithin 250 years, to tasee a re-transiation in our current vernmoular, lest the jliterate should think that "cab-riolets," 26 centuries ago, plied in the streste of Samaria! Superstition is gradually elevating the volgar Cockney speech of the age of King James into our " lingoz sancts;" and the rranelation suthorized in his reign Fill some dey become unintelligihle and neelene in the "Far Fees" except to those who powess glossaries wherewith to rand it Theologers would act wisely to oonrider thege things, while we pasa on to

## G. -Leviticur $x$ xi. 18 and 17 .

"He thed bath a. Sat nose" - [ha fortdden] - "approach to ofter the breal of ble God."
A fat gore, in the Abrahamic type of mankind, smong their "Cohenlm" or priesthood, was, in the daye of the Hebrew Lawgiver, as it is now among Irreel's far-soattered descendante, too great a deviation of phyaical lineamente from the indelible etanderd of the race (portrayod as we axhibit them in our present work from the monuments of that epoch, and as we daily son them in onr streers) not to excite suspicion that such caseatentified to admixtures of foreign ( 75 ) and consequeatly of "impare hlood"; and therefore to dehar a prieat with a "tlat nose" frotn the Tabernacle what rational at their point of view. Negro families [es already demonatrated, supra] are unimentloned throughout the Hebrew Text; and apgrophiliam may eccordingly rejoice that the remdering eelected by the forty-seven enannot now be applied to the former "de jure," where it is notorionaly (in the Free Slates of this Federation, eapecially) "de facto."

Happily - no thanks to our translators - " Sauhg" of oniversal humanity may legally efficiste at sancturiea; the word KhRM (76) meaning only a "mutilated nose:" ead the inhibition referring to noses injared by deformity, accident, disease, or lam, (ä) our apprehensions were futile, like their translation.

An ethnological item has been tocehed opon involuntarily, and now we may ae well give ventilation to another mpeh-ahused text

## H. $\rightarrow$ Song of Soloran, 1. 5, 6.

"I ane black, bot comely, . . . Look not apon ma becaun I am bleck, becanse the ran hath looked apon
 owis finegard bave I not kept"
The apocryphal "prologue" at the bead of this chapter tells on that here the Church "confeaseth ber deformity"' It were well if, hefore priating this acknowledgnent (which it is not for ue to dispate), the "Establisbment" had corrected the deformity of their translation: Which has led our anglicized Nigritiass to claim this supposititions bride of Solomon as a Venus of their own speciea! With equal reason, some commentatore, even of modern

[^160]Limes, (78) infer that the wes "an Egyptian princess;" While others ideatify the ledy with "Pharaoh's denghter;" for " King Solomon loved many strago nomen. . . Moabites, Ammonites, Edomites, Zidonians, and Hittites," and what not! (79) It need handy be mentioned that, the dynasty out of which the asge king selected additions to bis hares heing yet unfound in hieroglyphies, the monuments of Eqypt throw no light upon thin otherwise very proheble amalgamation. (80)

The "Canticte of Canticles of which of Solomon, that it to may, ons of the Cornticlen of Solomon," as Lanci iterally lnterprets its opigriph, (81) bas suffered much at the hande of the forty-seven. They, and others, lant sight of the simple feot fto be exemplified in its place), that, in the ancient Hebrew Text, divisions into chapters, verac, word, or by pranteations, are aboolntaly unknown; white, paraljeled to this day in Arabio oalligraphy, no notes of admiration, interrogetion, te., merk infections of the sense. The contert elone can indicate e quary; so that a "orooked litule thing whioh asks a question," added to Gdelity of construction and acqueintance with Lovant usages of the present hour, remeep our pratty Bhalamite brusette from all Ethiopian hallucinstions [rupra, p. 488].
"I am browen (Italich "foses," derk, tanned) but pretty," says the girl coquetishly; then [depreastingly to her swain], "Do not mind that I sm broened, beceuse the son bes tenned me; [which she explains hy adding] the male-ahildren of my mother [ie. my atopbrothors; who, in the Eest, control their meiden gistors after the father's death] having become fres to dispose of me, placed me wataher of rines: [" doa't you ses?" waderatood] my own rine, have I not wetobed it? " (82)

One improvement heralds another: it is ao in meahinery ; it is equally troe in biblicat bermeneutich, the moment a mu's mind sosra above the supernataral grede of retiocination. Frotn the simple proposition that they who exponnd the Soripturte should andetsiand them, we bold that no one is competent to impugn these dedactions who is ansequainted, not marely with the original Hebrew and Greek lengeagos, bat with the noble achievements of Continental exegesis. Hear a Living Churoh of England dignitery : -

[^161]It is a pity, certainly; for if some expoundere poesessed the intelligence they wond deplore their mant of education: but we continue.

## I. - Habakkuk ii. 11.

" Yor the stowe abell ery out of the well, and the beam out of the Unter thall anfert it"
That anatone should ery ouf from a wall is an ides consonant with Oriental hyperbole; but that a beam ehould answer out of timber aeems to be an onpoetical and far-fetched conception, as it presapposes the proximity of a "timber-yard" to the wall aforasaid. It furthermore is not in enison with the context; wherein the prophet, who "surpusaes wll which Hebrew poery can offor in this department," (84) declaims againet Chaldman fiagitiourness. The propriety of his metsphor resiles to view through Lami's rendering and notes of interrogstion.

[^162]- Fonndwemiare, shall the sarme of stone [an Asyrian bas-reliof?] from the wall ory out? The crickel [scartbeus, or beetle] from out of the wowd will it respond ?" (85)

Thera is a verse of anothar prophet that Lanci restores, in which our forty-recen have metumorphosed famines into "young men," and eorrows into smids"!
J. - Zecharlatic. 17.
"Cort shall mine the grong mone charfol, and neve wine the mable"
The "Sons of Temperance" may not be pleased with the moral, but the Daughters will not finil to appreciate an emendation that relieves their antique sisiore from the charge of unfaminine indulgences.

The old Vulgafa hed translsted - "For, what is the goodness of God, whit is his glory, If not the corn of the eleot, and the wine which fecundates the virgins?" Vaisblus and Pagnini make "confunion worse confounded" by reading —"The corn which makea the young tmen sing, and the new wine of the girls." Bat, bead upon radicals presorred in Arebic, our teacher proposes:-
"What is more afeet end more egreesble than corn in scarcities, and mine that fortifies In afflictions ?" (86)
"Per anltam," inesmach ss in the oheos of our momorsads of false-translations orderly elastifiestion is inconvenient, while to oar objects quite unnecessary, we open -
K. -Gmeris miiii 9, 17, 19.
"The ave of Miechpolis" --
purehosed by Abraham for Sarab's inhomation - to remark, that the word Machpela which, secording to our authorixed verity, seems a "proper name," is grammatically, in Bemitic tongues, "s thing contracted-for;" so that, it is as rein for tourists in Palestive to eearch for MacApela, as for biblical chorographera to define ita latitude and longitude.(87) L. - 1 Samuel rix. 18.
 covered if wilh $\perp$ cloth."
Manifold were the sing of David, but idolatry was certainly not one of the number; although scandslous buspisions have been rife in regard to this image. Commentators have likewise expounded how the inage being laid in the bed, ard covered up with the bed-clothes, the messengers supposed that the invalid whom they were sent to slay (v, 11) was asleep therein: but we sre told: -
M. - 1 Samined xix 10 .
 Mrir for hia bodetar:" -
Fhence it is erident thet the forty-seves deemed the "到sge" to be of the masonline gender. Their notions of an Oriental bed too must bave been peculiar, in Bngland, two hundred and fify yeare ago, when a "pillow" was made to etrve for a "bolster;" and such a hlrate contrivance : However, hering commenced rolling down hill, they reach the bottom through a series of cascadea that would excite Homeric smilen were not "God's word" the sufferer: as may be seen by the sabjoined realtution; after comprebending that Michal, the astute dsughtor of King Saul, Fis a priocess in whose "traussenn" Tere doubtlens many of the crown regalis:-
" Michal took her casket foll of jowels, and pinoed it upon the bed; whence mere reflected magnificent splendora; and she hid them with a curtain [ i coverlid].". . . "The messengera boving arrived, 0 gurprise! the jewels [being] npon the bed, from their summits wae illown out a magnificence of eplendors." (88)

[^163]Hamilisted at this sight, the assagsins remembered that Michal was a royal danghter Whose basband, escapod from their clatches, was just the man to remard them with a hempen neckeloth on hil eoceadion to the throne; es, apelogising for their intrasion, the -miesaries Filhdrow.

Qoate appear to have been fevorited with our tranglators. Not content with trangmuting jewels into "goat's hair" and filling the royal "bolater" with this rare, elaatic, and odariferons article, they mast needs metmorphose ove of the sublimest Hebrem names of Deity into 8 "reapogoat" ${ }^{\text {l }}$

## N. - Letiticus Ivi. 8, 10, 26.

 But the goest, of, which the lot tall to be the mapegroth, thell be premented elive berore the Lanch, to


AZAZL—Gzazel-m is the Hebrew word. "This terrible and venerable name of God
 and $\pm$ he-goat ! " (89)

It will give an idea of the lacidity of Rabbinical criticism, to quoto the following: -
"Aben Erra, according to his habital menner when he is in trouble, enuncistes in the style of an oracle: 'If thoo art capable of comprehending the myotery of Azazill, thot wilt learn also the mystery of his anme; for it has aimilar anocintes in Scripture; I will tell thee by allution one portion of the mystery; when thou ohalt have tbirty-three yeart, thon wilt comprehend us, Ho finishos sbruply without safing anything more allogorically or otherwise." ( $\theta 0$ )

The anto-Christian Hehreiv toxt was undivided tnto eords. Onr preceptor re-divides AZAZeL into two distinct nouns; AZAZ and EL. The latter, every eciolist kows, meand the atrong, the puisant par excellence, the Omnipotent. AZAZ, identical with the Arabid $\Delta x d x$, has its radiced monosyllable in $A Z$, "to oonquer" and 's to be rietorions;" wherefore, AZAZ-EL eignifiea the "God of victory" -here used in the sense of the "Author of death," in juxta-posilion to IeHOwaH, the "Author of life:" to the latter of whith Auchors the Jewa were onjoined to offer a dead gast; while, by contrast, to the former they were to offer a live one. Thus, death to the Lifa-giver - life to the Deadh-dealer. The symbolical sotithesia is grand and beantifu. .

For the sake of perspienity we subtait a free translation to the reeder: - "And Aeran shall place lots upon the two begonts; one lot to IeHOuaH, and one tot to AZAZ-EL. . . And the he-goat upon which the lot has fallen to AZAZ-ELL shall be placed arive before IeHOwh, to beeome exompted by him, wo sent forth to AZAZ-EL in the deeert... And he who shall have led forth the be-gost to $A Z A Z-E L$ ahall cleanse his clothes," ic. In verse 9 , the other he-goat offered to IeHOnaH wes to be tilled.

Hering thus entirely misapprebended the sense of the above passages, it was quite naturad that our gifted tranglatort, one Divine Name having ranished through their shill, shoald heve been blinded to many others. Here is one of them: -

$$
\text { O. - Job } \times \mathrm{x} 1.15 .
$$

 hifor"
We have Ilnstrated, ander the preceding letter $N$, the splendor of antithesis which Hebret literatore conceived in the solection of Divine Names; and berein leniency may be nocorded to the English intorpretert, becanee neither they vor early or later acholisats, could heve anticipated a discovery due to the profoundest Bemitic savant of our genere-

[^164]tion, the affable Professor (for thirty-nine years) of Sacred Pbilology at the Roman - Valican. (91)

The original of the aubstantive randered "profit" is NUAIL—n noan which, occurring but once amid the 5642 (92) words preserved, in the Hebrem and Chaldee Dibles, to our day (fragments, so to say, of the ancient tongue) - is onique; and consequently its signification is recovernble solely through ita extant radigel in Arabian dialects. Its true root is wol, " to be eminent"; and its sense, "the moat sublime." The prototype of "Almighty" is textually shabai ; literally, "the most palorous." Let the reader now oompare king James's version with the subjoined : 一
"Who is the mont Valorous (ShaDaI), that to him we must be servants? Who the mon Sobine (NUAIL), that we should go [out of our way] to meet him?"

Variety is plearing, so we skip over to

$$
\text { P. - Nicah, v. } 2 .
$$

"But thou Butb-lebem Diphris, though thou be bittle among the thourende of Judab, yet out of thet

The emendation suggested relates priocipaily to the word randered "thongande," of which the aingular, in the anpunctonted Heirew, is ALUPh.

ALePh, $x$, first letier of the Hehrem slphabet, in its Pharician original is the tachygraph of a Bulla head; and its name is derived from that of the animal, hecauge the bull is "deader" of the herd.(93) Fence ALePh became a title as the "leader," general, dux, or chicf; of which examples are numerous in the discrepant so-called "Dukes" of Edom, \&c.; corruption of the Latin "dux, duces"; which, with more propriety in Englieh, should be rendered chiefs. Copying the Latin and Oreek rersions, withont archmological knowledge of the Hebrew tongue, our translators have read Elf-lm "thounands," when Chiefs is ita real menning; thus: -
"And thou Bethlehem of Euphrata, [even] if thou art little among the Ceirys of Jude, I will cause to issue from thee the dominshor of Israel." (94)

Withoot regard to the fantastical and aporious headinga to this Chapter in our version, Wo may add, that the reading of Crigrs is as old as the second oentary b. c, when the LXX Greek version was made by the Hellenistic Jews of Alèxandris; heoause about 68-69 A. D. the author of the "Good Tidings according to Hathew," in citing the ahove passage from Micah, rend "Princes"; (95) and be does not appear to bsye been acquainted (96) with the Hebrew Text. Paulus and De Rosei even contend that the epeech of Christ, Xpioros, was Greek. (97) But, we wander from our theme. Q. - Isaiah xiiii. 1, 2.


 meted out and trodden down, wboee land the rivera have apolled."
We cite this paseage not with a view of destroging the, interpratation of the forty-deven, in this instance exensable enough, hut by way of elucidating bow meritorious it would be to reconstract their time-worn edifice, gaided by the lights which Oriental, and particularly Epyptian, researebes of our lling generation cast apon subjects until thls century utterly dark.

All interpreters here have been at fault. The LXX render 'Oval yas rioiuy rrfpuyts -i. e. Va fera narism alis. The Valgate - Va terace cymbalo alarum. Cahen substitutes—"Ab!

[^165]pays sous l'ombrage des voilen'; (98) and the late Major Mordecai Noah ectanily read -"Hail! Iand of the (American) Eagle"?

Fig. 859. here the prophet apostrophizes Egypt ander the metephor of her national symbol - nas - the " winged giobe"; as Birch defines it, "emblem of Khepis, the Creator Sun". (100) We sebjoin the learned Pisan's emendstion,
 with a few additions: -
"Ho! Land of the Winged Globe [Egypt] ? which art bejoud the rivers of KUSh [Le the "torrens Agypti," on the Iethmus of Suex ; supro, p. 484]: that sendeat into the sees as messengers, the eanals of thy waters; and thet navigetest with boats of popyrm on the face of the waves. Go, ye light messengers, to the elongated people [i. a stretched oat along the namow allurisls of the Nile, ] and ahaved nation [the Egyptinos wert essentinly a shaven populstion - ride Gexesit xi. 14,]; 20 e people terrible from the time that was, and also previously; to the geomedrical people [Geometry originated in Egypt], who treading [with their feet caltivate their felds]; whose lands the rivers will dorestete [referring 0 some anfulfiled prophecy]."
R. - Eccleriater xi. 1-2.
 sod almo to olght; for thoa knowet not what erill ahall be apora the earlh"
Oniess there was some cabalintic key to the latter portion of these sentences, through which the Tranalabors underatood what they yrote, the Buper-refned meaning they attechod to the numerals 7 and 8 suppasea our feeble comprehenaion: oven Solomon, roputed autbor and great magioian, could not unaseal their knot Lat us arbstitute:-
"Cast thy bread where fruits art boras, becanse time will reatore it with ukury. . . . Give the messure (porsione) even 10 satarity and abundence, because thau knoweat not whal evil tany come upon the earth." Here, comments Lanci, (101) the sage exhorts men to do good, sad to obaritable acts lowards the poor who, satisted with abondent food, will came $t_{0}$ rain upon bitw, througb the ferror of their prayers, ample benedictions during bed beasone. But what can be expected from men who translate "Tor, Su, and Agir" - m TUR re SUS ve AGUR,
S.—Jermiah tiii. 7, - by
"the turtie and the crime and tha rembor,"
— when the propbet meant "the bull and the horse and the coll"? (102)
T. - Zechariah $7.1,2,8$.

 the breath therear iten culte. . . Then ald be unto ma, Thla it the ourto that gooth frith over


If the prophet bad been so onfortanste as to receive the words of this angelic rision in English, be would have required a second revelation 5 understand its Tranglstors' impersotrable meaning.

A "flying roll"! Tbink of a parahment bynagage roll (MoOiLaH, Meghilld), of sach proportions, aciually fiying through the air! Consider the amonnt of inapiration it moas

[^166]have required to comprehend which side was mortiferous to thieves, which to swebrers; for in Aristotelien logic, "if the one is the other, the other toust be the one:" and remember that in the phrase "according to it" lies lost, forgotten, and entombed, one-half of the ineffable Tetragrammaton IHOH (Jemovas) ! that mast terrible, the most occult monosyliable of the palindromic neme rocalined as Amonas, the "Lord"! Here is the sense, verbatim et Litteratim: -
"And tarning myself, I raised my eyes, abd ssw: and behold a whirling disk [of firehaving a mystic relstion to the Egyptisn 'winged-globe,' emblem of Kenper, the Crealor$\left.S_{0} \times 10\right]$. (103) Then the angel said to mee: 'What seeat thou ?' I anawered, 'I see a chirling diak of twenty cubits in length and of ten in height' [its wings enlarging the laternl diameter]. And be said to me: 'Tbis is the malediction [of God] which spreads itaelf' upon the sorface of the whole earth; verily, every thief by this [the worirling disk] as (if) by $\mathbf{O H}$ [denterosyllable of $\mathrm{IH}-\mathrm{OH}$ ] shall be destroyed; and avery perjurer by this [the whirling disk] as (if) by OH shall be destroyed.' " (104)
"The whish, philologera will recognize as common sonse and justress, if as much was not perceived by those wretched theologiste (teologastri) who, in philological knowledge not eurpessing the Hebrew slphsbet, go hunting about through lexicoas in order thence to apit forth a doctoral decision in people's faces '; brya Lesci.(105)

But, es the time for the exposition of these recondite biblical ercans has not yet errived, our meaning is beat coaveyed to the Muminati(106) by amending
U. - Pralms xxxij. 7,


- Way, becence of the man who bringoth wleked dethes to peen "-
as follows: - " Keop silence in (the searet of) 1 HOH , and take delight in it: ditpute not with bim who seeks to peoctrate into the acquiring of it, nor with any vain man who attempts it." (107)
V. - Palms cx. 1-7.
 The land ahall mend the rod of thy treagth out of Zlos ; rule thou ln the midet of thine enemiet. -Thy people shat be willigg in the day of thy power, in tho kanilee of boliness trom the womb of the morcing ; thon heat the dew of thy yoath. - The Lond bath sworo, and will not repent, Thon art a prient fior ever after the order of Meiehledel.-The Lord at lhy right hand aball atrite
 with the dead bodies; be obsil moond the headr over meny countries. - He uhall drink of the brook in the way : therafore whall he lif op the head"
This superb ode has by some been saspected to bsve been derived from bymus of pagan origin, song during the seation that Ezekiel (viii, 14) san the " women weeping for T\&sN-UZ," ebont the winter soletioe, or 21at December, wbere the Chureh almanacs place the annirearasry of the unbelieving Bt . Thomas. They refer to the fact that St. Jerome's Vulgate renders TaM-UZ by Adonis, favorite god of the Phcenicians in Palestine and Syria, to juatify their reading of "Saya Jnaovat to Adonis" (108)! Others, again, rake Melchi" smezk to be the Melek-Sadyc, the "just king," whose name Srdic, with the title of "just" is preserred, by Sanconiathon, as the father of the Cabiri, \&o. (109) St Paul, however, cites this Pealm frequently in his Episth to the Bebreces; and whoever pat the headings to the former in our authorized version bas asaerted thet its language can apply to no other then the Messiah. With all deferenoe, the cobjoined paraphrase of Landi's olose Italien

[^167]translation of the "Dixit Dominos," while it removes the eenilitien of the forty-aeon, showt that the composer of that ode dedicated it to some oontemporary priat celled Mrichis: das, liviog st the time of its composition.
"Said teHOunH to my Lord: 'Sit thon on my right until I make of thy foemen a noool for thy feet'. - IeHOuaH from Zion will send the wand of thy glory: go, rale in the midst of thy foes.-Thy people will behold epontaneously, when thou shalt understand thy powerful qualifications for the splendor of the priesthood; from the womb, the germ of thy birth was mysterious.--IeHOuaH swore, nor does he retract his osths: 'Thou, 0 Helchisedek, shalt be, upon myy word, Prient (a Cohen) forcuer!' -My Lard at thy right hand alew kings in the day of bis furor-At the raling amid the Gontiles, the confioea having been passed by force, the chief of vastest land swooned-He whil pour himself ont more than a torreat through (its) course ; wherefore will he raise his hesd.' (110)

As every departure from the literal italian entails another remove from the original Hebrew, grace is bere purposely sacrificed to fidelity; but, from the general tomor of the context, owing to the distinctions observed by the writer between the use of the terim "Jehovab" and "my Lord," one might infer, that this poetical effasion commemoratee some conquegt over foreigners, with which the oomposer sad bis esoordotal friend Muchisadge were famjiar; scenep in whioh the latter personnge (named after the long-anterigr "King of Salem") (111) had been an actor. We must conaole onrselves (under the erpected charge that sll this is mere conjecture) by refeoting bow, if Lanci's ahaft may have miped the ball's eye, the arrows of forty-seven sble-bodied men fow wide of the farget; and that another nail has been driven into the latters' version, which wo shall heve the satiafsction of "clinching" under the succeeding letters.

According to Cruden's laborious work, (112) the words "grove" and "groves", are "authorized" to re-appear in the English Bible about thirty-air times. Theologisas of the lower grade naturally suppose thàh in the "original sacred congue," one single noun, repeated throughout the Text, as its substifute is in our version, mast be the latter's representative. Vain illusion!
W. -Generis $\mathbf{x x i} 88$.
"And Abraham planted a grove la Beerabeban and called there on the name of the Lord, the erariantiog ad."
He did nothing of the kidd! He, Abrabay, "set up (hen, ASeL) a tader (or stede) in Beerabebs, and ( $\mathrm{N}, \mathrm{KaRA}$, read; also, wote) engraved it with the naco of IeHOquH to perpetual duration." (113) Here, take note, the original for "grove" is ABeL.
X. -2 Kings xxiii. 6 .
"And he brought ont the grove trom the house of the Lord, wilhout Jeranalean, ugio the trook Kitmen and bursed it at the brook Kldron, and ctamped it smad to powder," Ac
 which is punctusted, by the Massors, Aetoret, and Ashtardt. At other times, aceording to the peculiar provincialism (patcis) of each biblical writer, the same word sppears in the form of ASeRA, or plural ASheR-IM. These are all proper mamea of one person; and that person is no other than the goddess Astabte of the Paleatinians; Hateon of the Egyptians; atpa of the Himyaritic Arabs; the FENUS of Greco-Homan mythology, and of our verbacular. Now, here the word for "grove" is ASheRaH: and our Tranglators' deed in renderiag ASeL by "grove" in one place, and ASheRaH by "grove" in another,

[^168]is cecity, if not worse. We pass over, therafore, the extrardinary ciroumatanoo hot Josian conld find a "grove" in a hourc, onless that grove wes very amall, or the house very large, which Soloxos's temple, only ninety feet by thirty, was asanredly not-and how be conld carry about and break up with facility an entire "grove" seems inexplicable. Not so mben we read ..."And be dragged the (wooden atatue of) VENUS (A8heHaH) (114) out of the house of IeHOuaH : "- a proceeding which beging to revesl to us, what some "toologastri" have ventared recently to doubt, (115) ris., the infamous atrocifies of ancient Jewish templar worabip; that we propose to lay bare in another place. "Ex sbandantis," We give a correct bat modest reatoration of verse 7 of the same chaptar, which intelligent readers can compare with the blundering performanoe of the forty-eevo: - "And he (Josias) broke down the jittle chapele of the shamelesa priests that were in the bouse of IellOusH, where the women spread perfumes before the niches of VENUS"-for, says verse 5 - the Jops " had borned incense to Baal, to BHEEs, to the Hoon, and to the Signs of the Zotiace, and to all the Aaterisms of Henyen!"

It was the discopery (abont $620 \mathrm{~B} . \mathrm{c}$. ), to eay tie least, of the "Book of the Lav" of Mosrs, (116) loat and forgotten for amen 700 gears, which instigated the reforming Josuri to these vigorons matarmes : hat pious iconcclaste had been shocked at similar ebominations before; as the following text clearly exhibits; while it also relieves poor Joass, the worthy father of the valiant Gideon, from the accusation of idolstry that forty-seven men stimulate " simple believers" to hatl at his innocent bead.
Y. - Judges vi. 25, 26.
"And it cemp to paes the atmenght, that the Jond ald unto blm, take thy finibere yonag ballock, ever

- the meond bullock of aeven yearn old, and throw down tho witar of Band that thy father hath, and eut down the growe thet 4 by It :一And build en aliar unto the Lord thy God rapon the top af the rock, th the ordered pleos, and jake the seeond ballock and ofter a barat merifioe with the wood of the grove wheh thou shuit cut down."
Decency forbids that we should explain the aculptural obsconitiea that Grozon's eyes bebeld. Orientalista, whose atudies may bave led them into antique pornography, will cotmprebend es and the exactitude of the venerable Lanci'a tranglation, (117) of which we cobmit a close but sofleaed paraphrabs:-
"And it was in that night that IeFOnaH anid to him [Oideon]: "Take the yoang ballock of thy father, and another bollock of seven years, and thou ahalt fell, with the alfar [supporter] of Baal [the obecens God] thet [bullock] which is thy father's; afterwards thou shalt break down the VENUS [AsHRes, the forl goddens] which was above it. Then thou shalt build up, in regular proportion [i e., according to Moasio roles], an altar to $[$ eHOnaH, thy Elof, on the sammit of that [yonder) roek; and, taking the second bullock, thou shalt barn it in holocaust with the wood of the VENUS by thee broken up.'"

We may now inquire of the reader, in sil good faith, Fhether, in every instance laid bitherto before his acumen, our emendations have not made plain sense of that Thich was utter nonsenae; and whether the Bible, properiy translated, is not a much loftier book, far grander, as regards mere literary excellence, then the version, "authorixed" exactly 250 years ago, has ever made it appear?

If such be his candid opision, he will feel a high gratification at the revisal, through the appliestion of pure grammar and pbllology, of that imaginary tert, on the authority of Fbich the Copernican system was tradaced by ecelesiastien igaorance; while the teleeopic discoreries of the immortal Galileo, A. D. 1615, condemed, as "sbsard, false io philosophy, and formally heretical, being contrary to the express word of God," pearly brought him to thoes fagots whereupon, only fifteen yeara before, Giordano Brano's living

[^169]body was calcized "t it quam clementissime et citrs Aanguinis efurionem, puniretur." (110) Had Lanei never turned his yust Semilic acquirements to any other Scriptonal tert bet Jobhus Xth, 12, 13, astronomical posterity should weave for him a wreath of laurels. Bat, wo eppresiate his labors, one must bestow a final smile of pity upon the forty-secen
Z. - Jothva 12, 18, 14.
 of Iarmel, and he sald th the alght of Imeth, Sun, atand thon atill upon Giboon, and thon, Moch, In the rallegy of AlNon. . . And the aun food Ytill, and the moon athyed, udtll the peopla Ma
 rlood atill in the mintat of heaven, and hasted not to go down about m whole day.... ind been Far no day like that before it or erter It, that the Lord beartaned to the voice of aman tor the Lord soght for lireel."
So far "anthorized version!" and, in lien of examioing whether the ancient Tert hw been truthfully rendered, thase among whom knowledge has not yet advenced beyond the theological grede are lavishly vituperntive of scholars who, zowing the Roglish tranistion of this passage to be an absurdity, deapise the commentaries upon it as a sham.

To place the reader at our point of fiew, let us first ask the question-what is this "book of Jasher?" Ove of the twenty lot books of the Hebrews cited in the Old Teatament, is the facile reply. "The book of Jabher, that in, the Righteow. (Josh, x. 18; 2 Son. i 18) This book magt have been of no very ancient date, for it contained the Lamentation of David on the death of Ean! and Jonathan. A apurious work with this title hes come domp to us, contelning the bistory recoeded in the first seven books of the Old Testament." (119) Aeconding to Cahen (vij, pp. 121-124; 2 Samuel L. 17-27), the verse rans -
"17. David componed this lament upon Saul and opon Jonathan his son. - 18 And ordered to bo taught to the ohildren of Judah [the elegion Lament oalled] the Bow; behold it is written in the book of Jesher."

Then follows the lament itself, from perse 19 to 27 ; in which Devid, in poetic etrith says (0.22, 28) -
*The boe of Jonathen nower motreated; The arord of saul never retorned empty : (0b) gant and Jonathan! ${ }^{n}$
Consequently, David, about b. c. 1056 , had composed this beantiful ode; and a later miter says, "behold, it is written in the Book of Jaeher;" that is, Devid's ode is. Engo, this Booh of Jasher was a collection of poems compiled after b. c. 1056. Now, the writer of " Josinu Xth" quotes, from this ame Book of Jasher, the pasagge which in king Jamea's sersion runs - "So the sun stood slill in the midst of heaven and hasted not to go down abouts whole day;" continsing his citation down to "the Lord fought for Israel." Hence it is positive that "Josian-ben-NUN," could not have heen the anthor of the "Book of Josbas;" because, having departed this life shoots, c. 1426, be could have known nothing of 2 sobeequent collection of poems that contained the lamentations of Derid upon events thas happened some 870 years after Jobhua himself was dead and buried. Moser is the only man who is privileged by orthodory to describe his owt demise: (120) a second jastende canot be tolernted. Now, this suthor of "the Book of Joshus" is attorly anknown, and its date is very modern, perhape as low as the fixth century B. c.; (121) as are likerive the "Books of Samuel."

The nert point, to which sttention is ioviled, regards the sentenoo-sit fo not this written in the Book of Jebher?" What was written in the said book? Commentators, ignornt of Oriental nagese, concur in the notion thst those pasages which praceio the book ciled Fere contained in the said book. Such opinion is tallacione, becenee, sa Orientaligts koor, it is the universal custom of Semitic writers to quote the anthorities they introduce befart

[^170]the extracts or citations they make from the latter's worke; so that, what follows the words "Book of Jasher" must be the quotation from thet book

The literary criticistn of age, msaner, and authorsbip, being briefly defined, we glance next at the topography; observing, that any propased verifications of tho latitude and longitude of Gibeon and Ajalon by tourista in modern Palestine are mere "traveller's tales:" for Gabd-0n, "occultation of the sam," bad Aial-On, (122) " dewning of the sun," refer respectively, the former to the West, the latter to the East, as points of the compess. Now, auppose two towne, one on either side of a valley, opposite to each other; the one, Gabd-Ox, on the weatern stumit; the other, Aial-Ox, on the eastern; while abatle wis raging between Ierselives and Ammonites in the valley hatween and beneath. Suppose, again, by anticipation of the lext (and you have ea mach right to suppositions, in this case, as the forfy-teven collectively), that the twenty-four bears during which this fight rent on oecurred at an equinor; and that it so happened, by a sidgular jonoture of the solar and lunar motions, that, at six o'clook p. M. precisely, the sun sed in the Weat at the same apparent moment that a full moon rose in the Bast; you would bave light for twenty-four hours in the Talley; or twelve hours of annlight through the day, and twelve hours of moonlight through the night. Such combinstions are so natural, bithough rare, that if any toorist were to furnich an estronomer with the exset latitude and longitude of suoh b palley in Polestine, the latter could calculate the precise day when such celestial combinations occurred, and thus fix the ra alluded to in the "Book of Joshas." Finally, in the Hebraw, these two lines are rhythmical, besjdes costaining eplay upon the words GBaUN and ALLUN, by peetic license: -

$$
\begin{aligned}
& \text { But thon, } 0 \text { Mocin! be mart rusplondent ln the [B-AMEALIUN] valify* }
\end{aligned}
$$

We conclude with the leason of that asge from Fhom both taxt and commentary are derived. (128)
"In precisely that dey that IeHOusH [the document is Jehaviric] delivered up the Amorean in face of the children of Israel, Jobias spaze to IeHOusH and asid: To the rise
 besplempent la the yalley. And the ban bet, and the moon endured until the multitade glutled (their) vengeance opon their eaemies:-And is it not written in the book [entitled] the Just ! [bere follows the quotation] 'The sun which, running alowg the meridional partition of the hervers [i. e. along the equinoctial line], goes down [atts], was not as precise [true, exact], as by day, intent upon new-birth " For certainly there was not bofore, nor after, a day equal to that in which, IeHOinal having listened to the voice of ma, IeHOnsH (himself) fought for Israel."

It may be prodent to obserre that a passage in Sraiah, and anothar in Eeclesiastes, properly tranalated, lend no expport to the bupernatoraliat commentary. That of Habakkuk (iii. 11) has no relation to the event; es, with "one longing lingering look" at king James's tranalation, we preve hy the sabjoined rendering: - "Sun and moon aet at their season; by the light of thy arrown they shall march, by the epleador of the lightaing of thy leace." (Referring prohahly to a night sttack.)

Thus vanighes "Josita's miracle!" The lato Rev. Moses Staart, than whom as a Hebraist, and upright champion of theology, none anperior have yet appeared in these United States, supplite thia definition of a "miracle" - "I bave it before me, in a letter arom one of the first philologista and antiquarians that Germany has produced. It is this: - The lawe of nature are merely developments of the Oodhead. God esnnot contradict, or be inconsistent with himself. But inamuch as a mirscle is a contradiction of the laws of natare, or at least an inconsistency with them, therefore a miracte it ixpooribls' "(124)

Reader! Fe baye suhmitted seriation to your judgment a positive example of the errors of our traly-rulgar vertion for overy letter of the Engligh alphabat. We bave kept no

[^171]secount of digreasional instancea of other blupders, made by the forty-epon trinslatori $\%$ yeara ago; slthough these are dumerous, they are thrown in to make weight The whots are taken, slunost protnlecooualy, from our biblical partfolio, referred to yenes gode by.(120) You may now begin to think that we mey be astious, when we uffirm that our theologieal ermory containg huadrede more, to prove thet king Jemes'a tranalators were not "inopired;" and that, thatever may be the fact as ragard the "origival tonguee," the Rogliah rexim canot be accepted by science as a critaion in mattara coneerning anthropology.

The laddur of time bas been agoended to the year 1600, whan our "Anthorized vartion" $\$ 40$ not; but when many Engliah tranalationg, some in MSB., others in print, required but en act of Parlinment to make them orthodox. With the former, ohiefly Saron veriong from Alyazd the Great down to John Wroligy, our inquiries do not meddle; none of then haring been meen by ne: nor, indeed, do we take intenge inlarest in the iatter, sars to remember how Filliem Tyndal, "homo dootos, pius, et bonus," for prineing the earian English translation of the Now Teatament, in 2526 , and of perts of the Old, wes rewarded by strangulation and cineration in the yoar 1538. Copies of his wark, together with the of Myles Coverdale, 1535, have been before ns for oramination; and it is a singuler fay thas, in the majority of cases, where king Jemes's tranplators departed from the version of Tyadal, or mare particularly from that of Coverdale, they oommenced foundering in the mire; and that where they have appropriated the readingo of either, it hea been dow without acknowledgment Fuller, the Charch bistorien of thoee timea, says of Typdel that "his skille in Hebrew was not considerable: yea, generally, learning in languages wh then in $\mathcal{J}^{\circ}$ infancia thereof" - and we have shown (ubi supra) that Hebrew scholurship was all but unknown in England until the generation of Walton; that is, half a ceatary later than the amisaion of king James's standard version.

Tbe period of English history embreced within the sisteenth centary is distinguished on the one band by the auoceasive intellectaal upbeavale of the edncated clasees, atch aurg tomering higher and higher; and on the other by the mind-compressing enactments of the "Lards Spirituai and Temporal" in the repasted areocion of barriara that gradoally matr lower and lower. Tyadal's body Wha bornt; that of Oraftom, (126) gailty of pristing " Mstthem's Bible," wes incarcerated; the Inquisition at Parie meroly configcated 2500 copies of the edition afterwards nown as "Cranmer's;" in 1646, an act of Parlinmest only forhade the possaation and reading of either "Tyndal's" or "Coverdale's." The reaction now began to feel its weakness, the progremalvee thoir atrength : and so long N the sacerdotal oapte could keep before the popalar mind o parliamentary idee that Tyndal's version was "orafty, false, and untrue," ita seges, satigied that reaistance had begun to endanger the "Establishment," as it is still celled, were preparing to give wis. Unhappy Tynda), no the first Englishtan to trample upon theological impediments torough publication, hes ever remained the "bêta noire" of High Church orthodoxy; nor, ofing to the obfuscations of history by ecclesiantical writors, hen his memory yet received from posterity the justice that it merits.

About 1542, an ect permiting certain persons to poseesis the "Ford of God," w term it now, "not being of Tymdals iranalation"" Was gracioasly istued. It propides-
"That do menner of parson or persona efter the lirat day of October, the next ensuing, should thke upon him or them to read openly to others in any churoh or open sasembly, Fithin any of the king's dominions, the Bihle or any part of the Soripture in English, unless he was ao eppointed thereanto by the ting, or any ordinarie, on pnin of suffering : month's imprisonment. Provided, that the Chancellor of England, captaines of the warter, the king's justices, the recorders of any city, borough, or town, the speaker of parliament, 2c., which heretofore had been aceustomed to declare or teach any good, virtuous, or godly axhortations in anie assemblies, may ase any part of the Bible or holie Scriptures as why have been wont; and thet every nobleman shd gentleman, being a householder, may read,

[^172]or canse to bo read hy my of his familis eervants in his house, orchards, or garden, and to his own fnmilie, anie text of the Bible or Net Testament, and also every merchant-man, heing a householder, and any othor persons other than women, prentiges, \&e., might read to themgeives privately the lible. Bat no woman [except noble-women and gentle-twomen, Tho might resd to themselves slone, and not to others, any texis of the Bible], nor artificera, prentiges, journeymen, eerring-men of the degreea of yomen or under, husband-men, or laborers, were to read the Bible or Now Testament in Englishe to himaelf, or any other, privately or openly, upoc paine of one month's imprisonment"

Threc bondred years have effaced even the remembrance of such legialative prohibitione The "general reader" of our dey never drenms that "my Bible" wan once forbidden to his plebeien use. He clape his hands at Missionary Meatings when it is triumphanly announced that myriads of tranalations of the Ecriptares are yenriy diffused among the Muslims, the Pagang, and othar "heathan," printed in more langagges than are apoken, in more alphabets than there are readern Hes it sever strack him to loquire, wheo the clamor of gratulation has subsided, whother theae myrionymed versions are correct ${ }^{\prime}$ If they are, what ls commonly the casa, mere berrile parapbrases of king Janses's Englioh translation, ee we bave proven the letter's woefal corruptions (ubi mpra), mast not the mistranglations of that tert be parpetasted and increased by tranafer into another tongae? and if 80 , is not that one of the provideatial reasons why the apiriteal effect of these vertions among the "heathen" falle below that material one produced by dropa of rain on the Atlantic ? Or, if the Missionary translatore of the Beripturas into Fagie, Kantehadale, or Patagonian, possess (what is so rsre, as to be a plesaant proverb) onficient Hebraical erradition to tranalate into the abeve, or any other tongre, direct from the Tat, do not these ercellent mon "ipas facto" confirm all wo have asserted in regard to our "anthorised" veraion, by leaving ite interpretations wide?

There art (although few Auglo-ssions tnow it) haman dialects, orally extant, wherein there is no name for "God," no appellative for "Heaven," becanse such idean never entered the brain of those low "Types of Mankind" for which a Lfistionary veraion has been manufactured. The highly-cultivated Chinese remsined impenetrable to the dispates, eartained by the learned Jesuits and the ovangelical Dominicans with the quintessence of "odium theologicum," on the following heads:-
"1st, if, by the words Thian, and Chang-ti, the Chinese underotand hat the materiad sky, or if they understand the Lord of Heaven : - 2d., if the ceremonies made by the Chinene in honor of their ancestors or of their nstional philosopher Khoung-taeu, ere religious obnervances or ciril and political prictions ?" (127)

Unable to settle the first problem by reference to Chinese lexioons, those Catholic Miseionaries submitted it to the decision of the Emperor Ehang-hi; and the solntion of the second dilemme was referred to the Pope!
Regarding this "Foreign Miasionary" disoussion from the asme point of view, es here in the United Etates we shoald look apon a dispute between Chinese Bonzes as to what we mean by "Providence," or in what light we celebrate the "Anniveramery of Weabington"; and feeling the same sort of eatonishment that wond fill ourselves were to told, that by one Chinaman the firat doubt had been enbmitted to His Excellency the Preaident, snd that the settlement of the latrer had been left by the other Chinaman to Hin Holiness the DalaiLama of Thibet: - the wise and jocular Emperor mroto in autogreph beneath the Pope's Constitution; -

[^173]Chinese nor English, and compromise the matler by writing YAH; (128) while the papert have since beld out bopes that the scruples of converted neophytes in Chine ere ebout to be overcome by adopting "Shin."

On the Afriown coast the Sooakeles dielect, so restrioted in itg berbarons jargon that all ite rocublea implying civilizstion are borrowed from the Arabic, (129) a Minsionary, who translates the "Firat three Chapters of Gepesis" into the native tongue, can find no more euphonious rendering of onr word "God" than Mooloniastmoongo. (180) And, in Americe, no ides of "Original Sin" can be conveged to an Ottomi-Indian, withont the agglatination of monoayllables into TLACATZINTILIZTLATLACOLLI; bor will the last Delawaro'z best experience "Repentance" until his mind bas perceived the meaning of SCHIFELENDA MOWITCHEFAGAN. (181) But, we apologize for the digrestion.

Doring the second half of the sizteenth centary, the frail bedge planted around the popular eoceseihility of the Scriptures vanished beneath the apades of the acencoulating delvers for bnowledge. at the Convocation of Hampton Court, in 1603, those measares tere adopted that have placed the Bibla before the people. Fur, far, be it from as to undervalae the "Great Fect" - atill tarcher to conteat its rest educational ntility. Would that all'the "Secred Beoks" of the East were equally aceemihle and equally read! The caporical literstare of the Febrews would be elevated infnitaly beyond its present acientife estimation by sach frob comparisons; bat not so ite Baglinh "suthorixed" translation, and that is the only point for which these paregraphs oantend.
In the years 1608-11, then, our Forty-seven Tranalatora had hefore their eyes mary Englinh tranelations of the Old Testament. They possessed, forthermore, the Lafin Valgates, first printed in 1462, and revised' in the Sextine edition of 1500 , and the Clonation in 1592 : together with numerous editions of the Greak Septuagint, both printed and manuscripl. Their critioal spparatas was oopious enongh wherevith to stady the Original Hebrece Text, which lay before them in a variety of editions, more or lens coonrate, printed between the years 1488 and 1661; besides Jowiah Manmeripti. If to thair noquetianed knowledge of Latin and Greel, had been added a little Hebrew of the genvine achool, whieh might very eurily hspe been imported from the Continent, their veraion would have been better; bat the confeeslon of ignorance to themselves was sa irtsome, as to their race and country anti-national. They completed their labore without the contenporary aids within all; and "Hin Majesty's Special Command" has consecratod them for two handred and forty-two years. "Undouhtedly, the preatant version is sufficient to all purposes of piety"; (182) our part ls to show that it hes long ceased to be adequate to the requirements of science.
It seems, therofore, considering the facilities they onjoged, and atill more the many they diedsiged, that errors so tremendous as those which modern criticism exposes chould have been baoked by orthodoxy with praises less extravagant; because, their Hebratioal qualifcations for the task being nil, the maltiplifity of foreiga versions, withoat that discriminating criterion, could bat augment the maltiplicities of thetr mistakes. (183)

The earlier Engliah versions, if here and there auperior to readings adopted hy the FortySoven, were radically defective, 0 wing to the same natural canses that preciuded the poasibility of making a direct translation from the Hebrow in 1611; vix.; amall sequastance with the vocabalery and grammar of the langaege Itself. Fuler, for inatance, infers that poor Tyodel rendered the Old Testament from the Latin, "as his friends allowed that he had no skilie in Hehrep"; and the aame anthority expleing that the reason why king James

[^174]appointed Fifty-Four Translatori was because "many and great facite" wert elready notorions amid the esarlier tranalations.

The Samaritan text wes ubspaileble to them for two ressom; one, thet no copy hed reached Earope until 1628, or twelve year later than the publication of king Jemes'a version; (134) the other, that those whoae Kebraieal accomplishments were so slender could have elicited nothing from any cognste Oriental idiom. It is auperfluons, therefore, to specalete apon what philological feats our Forty-Seven might have performed through Samaritan eantexts.
$\Delta \mathrm{t}$ the oldest of all "printed" books, A. D. 1462, the Latin Vugale mat heve riveted the ettention of men whase reverence for the invention indaced them to carry the antiquity of moveable types back to the age of Job (xix. $28 ;$ w $b i$ aupa). With the numorons Latin versions, (188) made prior to Bt. Jerome, from the Greez, our traniators did not trouble themselves; nor need we, beeause this firat of Hebraists among the Fathera declares "For the most part, among the Iatinn, there are as many diffarent Bibles es copies of the Bible; for every man has added or sabtraoted, according to his own caprice, as he eaw fit."

To remedy this evil, Jerome campleted a retrasalation of the Old Tentement, directly from the Febrew, between the years 885 and 406.(186) His contemporaries loudly procested aganst suoh profanity, iest it ehould secrilogiously distarh that bibliolatry with Fhich Chriatian communities then regarded the Saptuagint; bat, about 605, Pope Gragory invested it with reapectability, by adopting its lections along with the old Italic version. The consequence was that the monastic acribet, having equal euthority for either, began to correet the first by the second indiscriminately; and succeeded in fusing them both so inextricably into one, that the emendations of Aleuin in the ninth, of Lanfrano in the elerenth, and of Nicolans in the twelfh ceaturies, failed to establish any uniformity among manuecriptes which, in the words of Roger Bacon, "every reader aiters to nuit his own whim." Such was the btate of the Latin rersion current until the sixteenth centory, when Slopbeng undertooz to casigate its errors in his printed editions: Clarius, in the meantime, sobmituing a achedule of 80,000 mistakes for the edification of the Conocil of Trent. However. on the anlettered aide, fanciful subatitutions; on that of acholarship, rathlesa expurgeLions; impelled Sixtus $V$. to volunteer the office of "proof-reader:" sad, in 1589, s copy of the Volgste isaued from the Vaticab, wherain "eaque res quo magis incorrupto perficeretur, nosita nos ipri manu correximas:" i. e., the Vicar of God oorreeted the preas himself. Alas! Euch condescension ouly made the iunumerable faulte of that edition "notorions as ladierous. Belfarmice luokily hit upon a plen to correct the orrors, and asve the infallitility of the Pontiff." New recensions were excouted, "quod rix inoredibile ridebatar," in nisetean days; and the year 1692, during the apostolic vienrage of Clement V以I., brought out a stenderd Papal copy, wberein the odium of ail errore petant in the former Pope's edinion was charged upon the "printer's devil."

This Homenist faclity abounds with mininterpratations if collated with the Hebrew Text; and when pleced before the Forty-8even, some ten years after its appearance, could only have served to lead them more astriny; aven if the fear of Papistry did not prevent adoption of such of its readinga as attracted rather their fancy thar their aepti-quadrigentesimel aritieisma. Consequently, the Divine Aflatur did not penetrate into ting James's veraion through the Vulgate; which fact remder: nugatory, ap regards the Latln language, any infarence derivable from thelr Preface in favor of the peculiar sanctity of this among the "Original Sacred Tonguen" whance "one more exact tranalation" wee by them made. Perbape some etreans of the apostolic imponderable reached car tranelatore by trassmiselon throngh the Greak 9

At least three, and probably more, printed editions of the Greek Septuagint (187) were procarable by our Tranalatore in the jear 1608; Independently of ench manuscripis as they may have consulted; from the anmber of which lant must be deducted the Coder-Alezan-
(134) Kеаноотт; Dimet Gor; p. 476. (186) D. WITTE: I. pp 189-102.
(130) Mud. ; i. p. 28t, mp.
(15) Di Wert: i Fo 6n-5
drisuc, (188) now in the Britgh Mnseam; becanse it did not arrive in England until the year 1628. (189) The printed editions isened daring the sirteenth eontury were neturily copies reanding from the collation of auch manubcripts at to their reapective editart were more or less scossable; and if the originaly were dofective the trenseriptions must be sill more so. We ean atier no opinion on the eritical velat of the printed editions, befort weterthining what acholership may have decided opon the arehmologioal merits of the meststripta themselves; nor is it in our power to eacmerate what copien of the latter masy or may not heve boen consolted by onr tramalans; chiefly becruse our ofr notebooka do not afford the dates at which many colebrated Greak MSS. Were known throughont Errope. (140) We presame they used copies of the Codex-Vaticomm (printed in 1567, by Cardizal Caraffa), of which the antiquity is eatimeted by Keonicott at A. D. 887, whit others suppose "a fow years later;"(141) among them Montrancon and Blanchini, who refor it to the ath century. Nope of other Greek Codices oxtant an poaihly enteduth in any case, the fourlh eentary; for oven the oldest, the Codex-Cotroniarex, onee conjertured to have been Origen's property, is now proved to have been calligraphed towards the end of the fourth or the commemoement of the fifl century. Its fragmenta lie in the British Muserm. (142) Thin falls whin the lifetme of BL. Jerome, A. D. 881-422; (148) Tho lamente that, in his day, "the common (Oreek) edition la different in different plaeth all the world over;" and rotiterates, "It is corrupted everywhere to meet the riewt of the place and time, or the caprice of the trenmaribare." (144)
"Thus it seems that, in the time of Jerome, three different oditions of the LXX were t use uader the sanction of the moverl charohes, and with their anthority, vis.: Orisan' Hexplas in Paleatine, the text of Henychins in Egypt, and that of Luaine in Constantimople and ite ricinity. No wonder the exinting manectriph have come domen to ns rith eo mely corraptions." (145)

Such assoveralions, when once reoognized to be trae in fact, saffice to damago the were: dited uniformity of the Greek versione; bat a little further inquiry vill evince that it wh impossible, through the very nature of homen thinge, thet my Hollenic trandetion fros the Hebrow conld be "inepired."

If, then, only four enaturies after the Chrietian ore, the Greek translation (finished aboat the yeat 180 日. c., at Alerandria) no longer exieted in its "editio princepa," but its later recensions alone had fowed down to St. Jerome's time in three turgid streams, each oste exsentinly corrupt, it follows that all MSS. now ertant, no less then ell prinicd edition mede from each M88., mast be atill more blemished, owing to leter mistakes, than erin the best exempler known to BL Jerome. It is in this vitisted atate that the Sypugsat reached our tremblatore in the yenr, 1608 : -
"No one of these rocensious is found pare; for they have flowed tegether, epd beoper mixed also with the other Greek verions. . . The critiaiam of the Beventy has hitherto adranoed no farther-end perhaps it never can - than to a colleation of the various readings. The editions hitherto poblished do not efford the tric and exect text of he maduecripte" (146)

But, not merely doea the Greck version felcer in its historical tradions. Its deriationt from the Hebrew original render objections to its plenary antbenticity unanmersble.
"As a Fhole, this version is chargeable Fith Fent of jiteralness, and also with en atio

[^175]tury mothod, whereby something foreign to the text is brought in. In general, it betrays the want of an ncearate mequantanoe with the Hebrew language, though it furnishes many grod explanations (147)
"The character of this version is diferent, secording to the different books. It is easy to diatingaish Ave or six diferent trangiators. . . . Indeed, the real palue of the Septuagint, an a version, stands in no sort of relation to its repatation. All the translators engeged in it epposer to have been wanting in a proper krowledge of the two languages, and in a due attention to grammar, etymology and orthography. Hence they ofton confound proper nomes, and appellations, kindred verbs, similar words and letters, \&c., and this in cases where we are not at liberty to conjecture various readings. The whole version is rather free than literal," \&o. . . . The Texi of the Septuagint has suffered grastly. Through the maltitade of copies, which the very general uang rendered necesany, and by means of ignorant critics, the tert of this version, in the third ceentary, hed fallen_into the most lamentable atate." (148)
"Although we candot gay from whom it (the LXX) emanated, it is certain that it is the work of one or aeveral Jewa of Egypt, of Greak education (if always our version ealled the Seventy be exactiy the same as the one that was made at that epoch); becsuse ode may discover in it traces of that philosophy which afterwarda developed itaeif among the Alexcodrian Jews, and of which Prilo is for us the principal representative. It does not appertain to us to characterise here the translation under ita philologicsl aspect; we must contont ourselves with eatablishing that, in many places, it differs sensibly from our Hebret lext, and that very often its variants agree better with the tert of the Samaritana. Nepertheleas, the latter doea not sufficientily conform to the version of the Seventy, that one could imagine a common source for both conpilations." (149)
It resalta from Talmadic exegesis that its buthors, beyond rague impresaions of errors contained in the Greek version, not oniy did not know, asve through hearsay, the Septuagint thombelves (althongb they suppose ita Translators to have been aeventy-two), but that it was imposaible for the Palesinic Jewish Rabbis to read it, owing to their ignomance of the Greek tongue.(150) Nota word in the Mishna and the two Gwemeras refers to Aristobalas, or Pbilo, or to the Apochryphal books; neither to the Essenes, nor to the Therapesta. The Jewt of Paleatine were separste people from those of Alexandria; and it was a concern exciasively interesting to the latter to defend the many false renderings of the Beptuagint, of which remarkable exemples are exhihited in the learaed treatise of Franck, whence wo condenae some facts into e foot-Dote.(151) Bat hear Bharpe: -
"It will be enough to quote two pasages from this (LXX) tranalation, to abow how the Alezaudrian Jewa, by a reflnement of criticism, ofted found more maaning in their Eoriptores than ever entered the minds of the writers. Thas when the Psalmist, spesking of the power of Jehovah, anys with a truly Eastern figure (Paalma civ. 4, Tex), "He maketh the winds ait messengers, and the lightning his zorvants,' (162) these tranelatore change the

## (147) Podi; p. 147.



(150) Funce: In Kabbale: Path, 1849; Pp. 27A, 820.
(151) "Already the Thalmud had a vague tnowledge (Thaim. Babyi, Trad. Megoctan; tol 9, ch. 1.) of the


 When another prophet, Imiah, weve the Iord moted on hic throse and tiling the comple with the folde of his

 semalo (Gen 1. TT); bat this donble charucter, these two halves of bumentity, aro ualted is one and the same


 Alexindrined called "the LXX": of which our apace denlea fneerilon. Anter our own concludions were firmed,



 Jewa."



sentenof into a philosophical desoription of the spiritual nature of angelio beinge, and asy (in the Greok), 'Ho makerh hit angeh into opivis, and hir erruants into a Rame of fare' Again, when the Hebrow text, in opposition to the polytheiem with wich the Jews were surrounded, maps (Text, Dent vi. 4), 'The Lord io our God, the Lord alone' [literally, 'Hear, 0 Israel! IeHOunH, our God, IeHOuaH (is) one I'] ; the tranglators tors it to contradice the Egyptian doostine of a plurulity of persons in the onity of the Codhead, (153) by which the prieats mid that their numerous dirinities only made one God; and in the Alexandrian Greek this toxt esys, "The Lord our God in one Lord.' " (164)

Should the reader now turn to the sbove pessoges in our "anthorized" veraion, be will perceive that the forty-seven have rendered into English the exact words of the Groct; and thas be will behold a little of the demning eridence produceable that these worthies coald not construe a aimple line of the Hebrew Text; but have palmed off opon us, es geasine "inspiration", langaage that, being Alexandrian forgeries, cannot be Dirine; canfessions of oreed that, not being in the origina! Hebrow, cannot be "inspired."

Here, as concerna king James's translation in its relations to the Greck vorsiona, wi might bring our inquiries to alose : the seal of conderpantion has been so legibly slamped upon it But, insempooh as some dute respecting the origin of theme Grecinn doeuments may be useful to our researoben into the Hebrem Text, it is desirable to reseh that opoch When the $S_{\text {ptuagint had not yet been manafactured. }}$

Ascending from St. Jeromo in the IVth contury to the great Origen-in the IId, we find him complaining of the corraptions manifest in the Greek MSS. of his day - "Bat now there is obrionsly a great diversity of the copies, which has arisen either from the negtigence of some transcribera, or the boldness of others-or from others atill, who sdded ar took a way, as they sar fit, in making their corrections." (185)
"From the cime of the birth of Christ to that of Origen," continuen Eichhorn, "the Text of the Alexandrian veraion wa lamentably disfigured by mbitrary alterations, inter polations, omissions, and mistakes. Justin Martyr had a rery corropt Text, at least in the minor Prophete" " (156) He was decapitated in A. D. 164, baving been converted aboat the year 182; thue aesling his convictions with his blood.

The works of Origen's predecessors in the Grat century, Flaviua Josephus, born a.d. 97, and of Philo Judmus, who fonrished aboat a. D. 40, exhibit through their citationg, (both heing Hollenizod Jewa writing in Greek rather for Grecian and Roman readers than for their own countryman,) thst some alteretions bad already been made in the copies of the Septragint respectively uned by them: at the same time that the writers of the New Testament, by quoting the Greek version, in lieu of the Hebrev, have invested the former with a traditionary anctity, fabuious when claimed for extracts from the Old Tentament not ciled directly from the Febrow Text (167). Its discussion would lead es estray from the inquiry as to when and by whom the Original Greck translations were made; and the fuct is noted ruerely to eatublish the existence of the latter, in what state of literal preservation no man can tell, at the Cbristisn era.
"All we cas deternine with oertainty is, - that the whole, or the greater part of the Old Testament, weas extant in the Greek language in the time of Joans the son of Sirach [Sirach presupposes that 'the Lam and the Propheta, and the rest of the books,' wero already extant in hie time; that it, in the 88th year, which is probably the 88th year of Evergotes II., about 180 日. c.] " (158)

This year before Cbrist 130 is reoognired, nowaduys, by all biblical scholars, to be the minimum epoch at whiob Greek versions of certain books of the Old Testament oandon were already in circulation at Alexandria. Tradition, itself, claims no date for the existence of

[^176]same circumbences earlier, as the maximym, than the rejgh of Ptolemy Philedelpbus; and aboat 260 јөвгя в, c. anfice for a ohronological sland-point that reconciles scientific probabilities. The medium suits mell with the dispersion of some Hehrem exemplars after the uncage of the temple by Antionhus, $\mathbf{B} .0 .164$; and is parallel with the literary restorations of the Maccabees.

To read (as we ourselves formerly did with confidence) the works of some leading English Divines in quest of informaticn sbout the Sephugint, sad the chronology ereoted upon its nomeracions, one would ectually suppose, from the positive manver in whicb statements are pat forward, that they had atudied the eubject! Hales, (159) for instance, assares us that Seventy, or Seventy-troo, elders of the Jewigh congregation, after the reception by the king of a copy of Lav from Jeruanlam vritan in Letters of gold, sat down at Alexandrit, and did the Hebrew into Greek in 72 days, "d'ans sole tirata"; with many episodes equaily romantic. Half a century han elapeed aince any Contineatal critic of biblicel literature who ventured to give farther corrency to aneb wretcbed stories wonld have been jeered into cilence and overwhelmed with litorary oblequy. The rooder is referred to De Wette for facts and athorities,(160) and to Bansen (161) for endargement of the following sketch; efter remarking that wherover the number " 70 ," or its cabelistic equivalent " 72 ," occars in Jewish connections, it anrries with it more cogent evidences of historical untruth than evan the fortics, or "Erbainat," so common in Hebraical literature. (162)

The origin of the Greck veraion, atripped of verhiage and enggerated traditions, wat the natursi consequence of the great infur of Jewn - a people ever partial to the flesbpots of Egypt-ino Alexandria, immediately upon the foundstion of that city by Alexander the Great, aboat b. c. 832 . Enjoying privileges onder the early Ptolemies, the namber of Jewish colonists constanlly algmented: at the anme time that idcipient intereourse with their Groek fellow-citizens saperindaced first the dibase and next the oblivion of that SyroChaldee idiom the Ieraeliter bad brought beck with then, trom Dabyloaish bondage, in lieu of the Old Hebrew orally forgotten; and led their Alexandrine deacendants to adopt the Gresk tongae, together with mach of Grecinn usages and Philosophy. They became Heh-leniging-Jewb (163) at Alexandris, withode ceading to be Hebrews in lineage or religlod; just wheir present descendants are Germanining, Ifalianizing, or Americanizing Israelites, ecording to the conntry of their hirthplace or adoption.

The conqueste of the Macedonian are to us the most salient causes of the trangmutations that took place throughout the Lovent owing to the wide-spread of Grecian infuences; bat Pythagoras, Plato, and Herodotas, are earlier prominent expressions of Greek infiltration into Babylonia and Egypt durigg the fith and aixth centaries b. c., which was far more exten-

[^177]Hre oommeroially than until reeently accredited; whilo Greek condotieri had been emploged in Bgypt from the sevench century by Pasmettices: nor wes Xenophon the frat Generel, nor Cterisa the frot Docior, who volunteored their bervices to the Achmmenidme of Persian. Ynto Jerasalen itself, Greek ideag had peretrated very soon after the erection of the Seeond Temple in the fith century. These result from the history, and are stamped upon the proper natnes of the Jows of Paleatine, particnlaply after Alexander's era Nor were arch Hellenio jnaltretions without a certain inBance upcn the canonical literature of Judaism; for the "pollticel satire" (164) extitled the "Book of Danizl" betrays, throogh its Grath words, at much an hy its exegetical adeptations, an anthor of the age of Antiochus Epiphanes, not earlier then the plander of Jerugalem by that king about 164 years b. c. Cantinental acholarship long ago placed this fact beyond dispate; (165) and the Hebracal erodithon of the late Rev. Moses Stuart (160) iaduced bim to fortify it with his curtomary skilfulneas.

Bo much nonsense etill passea ourronuly, in regard to the various dislects apoken by the Jows sfter their raturn from the Captivity, that we mast here digress for a moment Independently of books read and others cited, we bsve sought for informacion on these eabjecta from some of the most enltivated Hebrew citizens of the United States, and have invariably met with the Eladent readinens to onlighten us. Wo poseese not (merely beenuse we omitted to eak for it) the sanction, of the many very learned Isracites consolted, to pablish their bonored names; but not on that socount are the hints with which all bsye favored as the lesa appreolated by ourselves nor the lese useful to readets. No interdict heigg laid by one of the writer's mived frienda, Mr. J. C. Lavy of Bavannah, upon the many jndices to knowledge for whish his goodness bas rendered as hin dehtor, we condense the subtianee of tro recent commaniantions; coupled with regrets that certain inexorable timits of typographical epsee should comprese what ought to be in " Brevier" foto "Nonpareil." (167)

 Egypt, Foe. B, 7 ; Jan. 19 and 25, IR50.




 Neberiab, 44. Daring the Chptivity, by mood troetment, they adoplai Dabylonian custome and maname







 mecratlon of the Temple on the list of the pth month end in the 24 daye of jid daration, it was found meemery
 the beglnotage and faundation of the Telmud, or treditional oral law, Which wes drit probluled to be wittivis

 well known. IIsd theso explanntions, which are morly cantredictory of aselh other, not boem onlected and mado a oodo of, all itife might here beon apoided




 Patertine produced smong the Jewi Greciat manueth, custome, and iden, slso languape; so that trensiathena
 to enplala Chaldaje parta of the BHMb; thers jon bare the Greak traniation of the LXX. Philo, Joeophen, and
 sxplsiation of the Text. Oreek fechnieal iotins are even ha ba fount ahondently in the Telmud"


Beturning to the LXX. - Bome precarsory eventa had prepared Jewish Alexandrian immigrants for the adoption "nolens volens" of the Greek tongue and alphabet, consequent upon the oblivion of the Aramman dialeot which their progonitors hed re-imported into Paleatine. The children were growing ap in igaranco of a "Lav" their Alexedrian parente could no longer resd in Hebren. To hare paraphrased that "Lav" into Syro-Chaldee, like their bretbren in Palestine and Bebylonia, would at Alarentris have been oseless; because the pareats had forgotton Syro-Chaldes, and the childrea alreedy walked Greak, by the reigo
 teristics of that "Type of Mantind" which, beyond all othera (trom the days of Abrahem), changes ita langroge with moat fecility, while it repols admixturo of alien blood and tentciously adheres to its own roligion, than that one of its brenches, the Alerandrian Hebrems, ahould cange the sarred writings of thelr forifathera to be translated into greek? This wae precieely that which they did, although the exaot year of the commencement of suab tranalations can no longer be fired; bat the atyle and idioms of the eneral beoke, to whioh, after coilection into one cenon, the name of Spptagint wee subsequentiy given, indicate different times and divers hands. (168)

While confued to Judaiem in Alerandris, this Greek tranglation was repared orthodor by the Hellenizing Rabbis as muob an the Hebrem Soriptures themsolver; and more anthoritative, beoause they could read no other. It was read in the Byaggogues of that city, and wherever Jowisb congregetions waro planted under aimilar Grecian cirenmatances; but a Oreek version was of no ane, and therefore of little relua, to the Jewe of Palestine, Syria, and Perain ; who underatood not the Greek tougue, bet eppoke Chaliaic "patois." The Greeks thomselves, regarding all languages but their own marberoas, Hebrew inolnsive, never troubled thelr heade shoot the Saptuagint ontil after apostolic minsions bad propagated the Nex Teatament, composed in Greok by Hellenized Jowa alno; when the reourrence of quotations from the old Tectament, in the erangolieal booke, instigated its readert to reference, to that Code; and as these Cbristisnised readers were igaorant of Oriental idiome, of course the Septuagint voraion was the only one acoesalble to them: While, to give it an air of antiquity and of royal reapectability of origin, both Grecteed Jews and Judairing Christians coincided in ettrlbating ite anthorship to " 70 " tranalatiors, eppointed (iike our forty-seven English tranalators by king James) ander the hand and seal of Phijadelphan; whose encouragement of literature was teatified by mavificent donations (ooss to himself, nothing) to the Alexandrian Library. A pseudo-Aristoas "roported" a fable no flattoring to Alezandrine pride, to Jewish respectabilities, and to Christien orthedoxy; While the real tradition seeras to heve reached ue in an ecoount that the anthore of the Stptuggint were but "five"" (189) and so, veneration for the Spptuagint increased from day to day in the retio that time rolled onward, and that the remembrace of its pataral origin faded from the "mernory of the oldest inhabitent" of Alezandria; nor would the barmleas legend bave been distarbed, had not proselyting furor on the part of new oonveris to Cbristianity led them to provoko anbbinical sueceptibility by sppeals io the Greek version of the Old Testament fin support of novel doctifnes promulgoted in the New: the two texts

[^178]baving been made singolarly harmonions; owing to scrupulons eare on the part of the apoatles to cite each pagsage eccording to its Greek coloring in the Septuagint; for a long time beld in common to be oanonical as mell by Jewe us by Oreeks.

Bewildered for a time by these derierous sophisme, and mystified througb literary ambascades which it required a Grecian intellect to comprehend, the worthy old Rabbia (taken in reverse) had no rescorce bat to proscribe the Septuagint, and ostracize ita readers. "The law in Greak! Derkness! Three days fant!"(170) Becsise, says the Talmud, "an thet day, in the time of King Ptolemy, the Law wes writion in Greek, and darkcese ceme upon the earth for three dsys." (171) Little by litte, bowever, their perceptive facalties expanded to the true posture of affeire; and by proving incontinently that many thingt, which looked one may in the Greck, looked quite anotber in the Hebrem, the Rabbis 000 p defeated their asmilants; monting them so repeatedly, thet gredually the latter thougbt it safer to let auch donghty controvergialigts alone: a method of repuleion continued with never-failing wocesa by Iarael's wide-spread postarity even now; who, when pummoned by anxious "Missionaries for the Conversion of the Jewn" to adopt a Trinitarian faith which Semitio monotheism (172) despises, bave merely to show such well-meaning pertons that king Jsmes's persion does reslly copy the Septuagint rether then the Hebrew, to see these itinersat simplieities poeket their English Bibles and olink off. Bome day, perbaps, when the rules of archoology throngb popular diffanion bave augmented, all over AngloSarondom, that mental elemont termed "common enense," sundry excellent person, in the language of Letronne, "sentiront, je pense, l'inutilite, la vanite de leare efforts."(178)

The above conclueions on the Septuagint, long known to acholers, if not previonaly expressed in print with the same "brutale franchise" habitand to writers who believe they speak the troth (so far as ratiocibation can deduce logical results from known premises, humantem est errare), hare anfoebled its value-except for purpomes of archeologial restarttions of the Hebrew text - to such degree that, in this discussion, the ablest theologians have sdranced into the positivis's atage of philosophy. No scientifo exegetist of the preent generation-sape for purposes aforeasid--perils his Continentel repotation on the letter of sny Greel version, uniess chronological computations be the object of his resenreh. Another Essby (III.) of this book gives parallel tables wherein the Soptuagint syatem is compared with others; but, to evioce the namerical discrepancies between Text and versionk, it arffices bere to nota, that, from the creation of Adam to the "Deluge," computations (based upon the Hebrew original, as now extant) generally yield 1656; upon the Sameriten Pertatozch, 1307; and opon the Sptuagint, 2242 years

The indefatigable labors of a profonnd Helleniat and Egytological soholer, enable un to sweep amey any chronological superatitions, yet in fashioneble vogua, built opon the 8optuagint: -
"The chief disagreoment between the [Hebraw] original and the [Oreek] trasslation is in the chronology, which the translators very improperly undertook to correct, in order to make it hetter agree with Egyplisa history sud the more advanced atste of alemindrian science. They only made the Erodns of Moess 40 years more modera; bat they ahorteaed

[^179]the reaidence of the Jefwe in Egypt by 275 yeart, allowing to it only the mere probable apece of 155 yoars. But having thus made the grest Jewish epoob, the migration of Abrabsm ont of Chaldma, 315 years more modern, they thougbt it equally neoesser'y to mbke sach a large addition to the age of the worid an the bistory of acience and civilization, and the state of Egypt at the time of Abrabam, seemed to call for. Aecordingly, they added to the genealogies of the patriarchs neither more nor less than a whole Egyptian cyole [Sothic-period] (174) of 1460 yeare; or 580 between Adam and Noah, and 880 between Noab and Abraham, though in so doing they carelegsly made Nethuselsh oudive the Flood. (175)

This plain mattor-of-fact solution of the reasans why the Septuagint chronology differs from that of the Hebrew - between Adam and the Deluge - upon popular computationa only 586 yeare! - relieves us from the bootless trouble of attaching any importance to opinions current at Alexandrin among those buccebsors of the Founder of chronology; who, with the original copies of Mametro (176) before them, paid homage to his accaracy in their eadeavors to asamilate their own foreign eatimates of time to his.

Archeological rales slso permit two deductions to be drawn from these premisen:-
1st. That the differences of nomericel reanits among esrly Chrialian and Judaical oomputators of the Septuagint proceed less from wilful perrersions of numbert (as heretofore attributed to Jeeophos and others), then from radical discrepancies then axisting between the manuacript consulted by one computator, and those exemplers whose numerition was followed by bis compeers. This becomes obvione by comparing the erta severally reachad by modern computations opon mennsoript and printed copies now oxtant


2d. That already in the time of Josephus, during the first century after Christ, the manuscript be followed must heve differed in numeration from the pareatal exemplary of those transcriptions that, under the modern names of varions codices, Cottonianu, Aleanabrinus, Vaficanks, Beta, \&c. (done ebrlier than A. d. 600), have raached our day; and ergo there must have been many corruptions and variants among Sepivagint MSE., about and prior to the Christian era.
Hence we coaclude, that it is an raln a tatk for compalators, dow-e-days, to recover mors than a vague approximation of chronological notions (deducihle from the Soptragind) current at Alexandria before the Christian ers, as, aflor the foregoing andysis of the mataral origin, history, and menifold corraplions of Greel codicen, it would be to inaiat apon Divine authenticity for king Jamea's version; on the plea that, in the majority of enset, ila fortyseven translators rendered from the Groek of aditions, or manascripts, so rotten in bais a these of the Sxptuaginh.

We proceed to the Hebrev Tlat; with the remark that, although we now know that it could have had littlo to do with the formation of our "anthorixed veraion," We ahall examine it under the bypothesis (cnstomarily pat forward) that it had a great deel.

In the year 1609, at the time when king James authorized a new Roglinh tranglation, there were numerous printed editions of the Hebreto Test familibr to biblical echolants. That of Soncino, 1488, the tirst priated; of Brescia, 1494, used by Lather for his tranalation; Bomherg's, 1518-45; Btephens's, 1544-48; Munster's, 1546; we the most promipent of the number. Whether the tranalators consalted any, or what, Hebraw mansecripta, does not appear from works within our present raach. We have shown how trivicl was their acquaintance with the language of the editions, and may be persunded that thoy did not

[^180]greatly distrese themalves about the latter; for, a obntory and a half elepsed bafore Kepnicott proglnimed bow - "' the Hebrew Bible whe prinsed from the latest, and consequently the woral manasoripts;" (177) thas corroborating his previons acknowiedgment - " that the Snared Books have not descended to us, for so pmany ages, wichout some gitakea and errors of transcribers.' (178) He eulerges apon the certainty of corruption in the printed Hobrev Text, powerfully refating those who cleim textael unity; and then passes on to establish the absurdity of attributing perfection, either, to the manuseripte (179)

Of all men down to his opoch, 1780, Kenaicott had the best right to apesk deciaively;

* his oonclasions being dremn from the oollation of no less than 692 manercripfe of the Hebrey text; whereof about 250 were collated by himself personally, and the remainder by Mr. Brans, ander his direction. Of the most ancient relics, but two were asaigned by him to the teath eontury after Christ ; to the eleventh or twelfh centuries, only threx; While all the rest ranged between the yours 1200 and 1500 a. D. (I80) The balk of his vork, is costliness and comparative rerity, combins with its Latin idiom to render it inaccesalble to ordinary readers, ase at second-hand. Bat fow of the facts eatablinhed by this great and upright scholar are popularly tnown; or they have been misrepresented, more or leas, by some of the ocolesiastical medints (181) through which they have renched the pablic eye. Cardinal Wiseman, (182) for example, would leed his resders to infor, that the innumerahle wriants and corraptions of the Hebrew Text, verifed by Kennicoth, were of amall importenoe; and even the Rer. Monen Stuart (188) mlare lighty over those deprecistory reanits which it will be erehealogg's daty presently to enamerate, in eaging: -
"Indeed, one may travel through the immense desert (bo I can hardly help naming it) of Kennicolk and De Boas, and (if I may yentare to apest in homely phrese) Dot find game enough to be worth the hunting." Bo again, "Have they (the Jove) added to, or diminished from, their \&criptures during all this period of 1800 years! Not the leash... . Their Bihle has remaibed inviolate."

Now, to continue the engecious Professor's simile, the quantity of game to be found in e given wildemess frequently depends upon the keencess of the buntaman; its quality upon his individual tastes; some aportemen being partial to tomtit, whilat others sigh that nothing fercer than grialy-bears encounters their ferine combstiveness. And, with respect to the "inriolate" state of the Text, Kennicott shall speak for himealf, affer we have opened a volume of De Rosai.
G. Bernario de Rosai, of Parma, was that augut Italian critio who ramumed inventigetion into the actasl condition of the Hebrew Tert at the point where bia Englimp predeeesoor had lef off; recasting alno (wherever the same MSS. could be raached by him) the work of the illugtrions Oxonian. Written in Itslian, and intended solely for the lettered, his books are not very famitiar to the general reeder. A quotstion or two, therefore, may plece mettere in their proper light:
"Here it tumees to observe, that the Lotality of manwaripts collated is 1418, of editions 874: that to the English 677, and 16 Bemeritan, I have added 825; of which my cabinet slone furoinhed 691, and 383 editions; besides the ancient vertions, the commentaries, the worke of criticiem and other sources that are also themeelves in the greatest number." (184)

In another worl be btates: - "Or the manusoript codices most ancient of the sacred - Text" . . . Lhe oldeat, that of Vienns, datem in a. D. 1019; the next is Renoblin's, of Carloruhe ; its age being A. D. 1088. There fa nothing in manusoript of the Hebrew Old Testa-

[^181]mentnow extant of an eariter date than the eleventh century after Chulat (185) And, "of the moat ancient manọacripte of the Greek Text of the Nese Testament," . . . the oldeaf are the Alexandrian and Vationn, which may escend to the fourth, bat annot be mach later than the fifth century efter Christ.

Cousidering such circamstances, oar credulity is not atrined by mocepting what De Rosai asserth, as rather more suthoritative than the fiats of some "teologini" we might name; for $\mathrm{h} \theta$, at leset, hed salvanced by studiong discipline to the paritios atege of pbilosophy. These ere his Italian views rendered into English:-under the hoad of "Premure degli Ebrei per loro Teato: "...
"It is lnown [ ${ }^{4}$ ] with what carefulness Esiras, the most excellent oritic they have had, had reformed [the Text] and torrected it, and reatored it to its primary aplendor. Of the many revisione undertaifen after him none aro more celebrated than that of the Masporeten, Who ome efter the sirth centary [annis D.]; who, in order that the Text should not in after time become altered, and that it might be preserved in its integrity, nombered all the rerses, the words, the letters of each book, together with their form and place. But their fatigues being well analysed, one perceives that they had more in aim to fix the atate of their Text, than to correct it; that, of infinite interesting and grspe varignts they do not speak; and that, ordinarily, they do not cocopy themselves but with minative of orthography of litale or no weight: and all the mott sealous adorers and defenders of the Magors, Christians and Jews, while rendering justice to the worthiest intantions and to the enormong fatiguea of its first enthors, ingenrously accord and confess that it [the Massorgtio Text], manh as it exiots, ia deficient, imperfect, interpolated, full of errors; . . . a meat unsefe guide." (186)

Why, "the aingle Bible of Soncino [earliest printed Tezt] furnishes more than fwelve thousand (variants)!" Which said, our anthority continues through above eleven 8vo pages to deplore and make manifest "the horrible state of the Text," resulting from his own comparisons of 1418 Hebrew manusoripte, and 874 printed editions. Suoh being the truth, publighed a quarter-oentury before the Rev. Dr. Halas'a "Analysis of Chronology," (187) the reder cen qualify the following atteatation of an ecolesiagtic by what epithet he pleases:-
"It is not more certain that there are a ron and moon in the hasvens, than it is, that not a single error of the press, or of a Jewinh transeriber, hes crept into the present copies of the fifacete Hebrep Texh to give the least interraption to its chronological serien of yeara."

And get, so dercid of connatency ia this theologer, that ho designates the Hebrew chrobology en "apuriona," and ectuslly follows that of the Septuagint!

From the load denunciations of one of the most learned Church-of-Englend Proteatent divines, and the sterner borrow of an Italian Catholis cenobita, turn we to the widd despair of the Hehrem Rabhis:--"Perait consilium! Compntralt sepientis noatri! Obliviond tradilum ant leges noatrw: Multw etiam comptela, ot errores, ceciderant in Legem nostrem eanctam! "(188)

But Keonicott eubstantiates that the disorderly condition of the Fohrey Teat, and ita maltitedinous vitiations, resile from the works, or are lamented in the languege, of sll claimanta to biblical knowledge for 1700 yeary previously to the Rabbis and himalf; equiment to 1720 prior to De Rosej. Hers is a skeleton of his list, omitting reitations: "Justin Martyr, died A. D. 185-Tertullisn, 220 -Comona Romanns, 102-OTgen, 204 --" Busebius Csesarienensis, 840 - Ennebins Emisenus, floarished 850 - Ephrsim Byruh, diel 878 - Hieronymas, $420 . "$ We pause to illustrate.
let King James's veraion. - Pacl, Galatians, lii. 18 : - "for it is written, Cursed is overy one that hangeth on a tree." [Tbe English of the Greek panage in Griendach's uzt in, spud Sharpe, "(for it is written; cursed in every one that in hanged on a tres;)"].
(188) Introduriona alla nura Sbitura; Phrma, 1817; pp. S4, 17.





2d. This is a quotation by the Apootle from Deutronomy $\mathbf{x}$. 28 ; whieh, in king Jane's version etends - "(for he that is hanged is necursed of God;)" [The French of Cahon reada - "car ūn penda eat une malediction de Dien" (v. pp. 98, 94); which oonforms better to the contoxt, and resembles carrent aparatitions averaion to gibbete.]
Apart from illitoral citation, the Now Testament, in this passage, leaves ont the word RLoHIM, 'God.' Theologist, who coruhat for "plenary inspiration" can doublless anster the following interrogetoriea. If those worda be Paul's (abways profided for), did be quote from memory! then bis recollection was faulty. If he copied the LXX, then, in his day, the Green already differed from the Hebrew; and who can tell which of the two transcript preserved the original reading?

The catalogue continues with-" Epiphaulas, 408 - Auguntine, $480^{\prime \prime}$ - bat we mbridge trenty-two folio pages of extractin from later Christian writers, who protest to the ame effect, into a line; epitomiziag the series by one name - Ladorious Capellus, founder of seored critioinm in 1800 .

All the subjoined commentators voreh for insecuracies in the Text: rix-" Raymand do Pendeforti, 1250 -Nic. Lyrenus, 1820 -Radolphus Armechenas, 1859 -Tostatus, 1450 Jacob Perer de Valentie, 1450 - Martiliun Ficinus, 1450 - Beptints Xentunane, 1516 Zuingliun, 1528 -Martin Lather, 1648 -Bihlinader, 1684," \&o. The same corroptions are certited through the decrees of the Council of Trent, 1848; through the Fulgate of Sixu4 V., 1690 ; and throagh klog Jamea's version, 1604-161I : on which the Ozonian critic remarks (p. 60, 108) : - "To the Aeriose of the English veraion that which is due: many examplea prove that they did not alweys mind what they found in the Hebrew, but what they thought ought to be read therein: tantamount to that, in their opinion, the Hebrew Teit was corrapt. This the reader evolves from twenty placen:-Gen. xuy, B: mur. 29: Ex xi. 10: Dead, ₹. 14; mxii. 26; mxii. 48: Joa. mii. 84: Jud. vii. 18-vid. com



After citing "Jos. Souliger; the Buxtorfl, father and son, defenders of the purity of the tert; Capellun ; Olsssius; Joseph Mede; Usher, Morinue, Beveridge, WalLon, Hemmond, Dochar, Hotinger, Huet, Pococke, Jablonski, Ciarious, Opitios, Vetange, Miohselis, Folfius, Carpsovius, Joseph Hellet, Francia Hare" - Kannleott conclades (\% 182) : -
"Id antem a me manime propositum fait, ut oftenderom - produci ponge teatimonis malte et insigaia, per intertallum fere 2000 annoram, ad prohandes mutationes in Hebraicam Textam invectas: quanquam in contrarian sentantiam, sanis ehbine triginta, doeti fore omnea abiernt." (I89)

One would have thought (to return to Prof. Stuart'a metaphor), that this "immense desert" contaised "game enough," in all conscience! bat, in some men, the love of cbase is inastiable. "Defence," as ho jusily obeerrea, "would seem to be needed. The contest has hecome one pro aria at focin" - "truly besome one, as I have said pro ari et focis." (190)
"It has become plain," frankly declares this lamented Hebraist, "that the battle which has been going on over moat European ground thene forty or fifty years past, has at last come even th us [alluding to the exegetical-works of his learsed and reverend New England colleagues, Noyes, Palirey, Norton, Parker, \&o.], and we can no longer deoline the conteat. Unbelief in the Voltaire and the Thomas Paine atyle we have coped with, and in a measare gained the victory. But now it comes in the ahspe of philosophy, literature, criticism, pbilology, knowledge of antiquity, and the like.[!] Hame's argumenta against miracles have been axhumed, clothed with a new and splendid costume, and commonded to the world by meny among the most learacd men in Europe. Defore them, all revelation falla alike, both Old Testament and Nem." (191)

And, coosidering who these "raost learned men" veritably wita, it is not for as to quesurn the aprightness of his outepozen recognition, that-
"The unbelief that consistently sets aside the whole, shows a more manly and energetic aftitude of aind; and, in my opinion, it is much more lizely to be convinced at hast of error, than he is who thinks that he is alroady a believer and is safe, while he virtually rejecte from the Gospel all which makes a Goapel, in digtinction from the tesching of Socrates, of Pialo, of Plutarch, of Cicero, and of Sonecs." (192)

We have quoted the highest contemporary authority of the Calvioist achool; and impartiality requires that a momber of the "Chiesa Cattolice Apostolica Romenp" should make up for the mild notice taken of Kennicott's and De Rossi's researches by His Eminence the Cerdinal.

If the man of science monrag, with as mach fertor as the most devout, oper the irrecoverable lose of Hebrem manuseripta of the Bible-of these precions docaments that would have linked the Bodician coder (bbont 800 years old, said to be the most ancient) (193) with the knonsoripts of Eara's copy; and filled up the frightfol chesm that now dividas, in Hebrew paleography, the tenth centary after Christ from the ffth century before his advent $\rightarrow$ to Whose acts is be indebted, and by whom are his corrows caned! Lecour ahall answer:-
"At the commencement of the thirteenth centery, it was expressly forhidden to the leity to poesess the books of the Old and New Testament. The Church permitted only the Psalter, the Breviary, or the Boars of the Sainted Mary; and these books were required not to be translated into the vulgar tongae. Decrees of Bishops interdicted the uge of grammar.' (194) Other sources confirm this assertion.

Gregory the Great, 4. D. 590 , cepsured Didier, Archhishop of Viemna, for saffering grammar to be taught in his diocese; "bearting that he (himself) ecorned to conform his Iatinity to grammatical reles, leat thereby be ahould resemble the hearhen." (195) In the ninth century, Alfred the Great latments that there was not a priest in England who really understood Latin, and, for agen efter, Kaglish Bishops were termed " markmen," because they could not aiga their namea otherwise than by a crase!
"In 1490, the Iqquisilion caused the Hebrew Diblea to be borned, that is to esy, the work in defanlt of the author; in the mbeence of Moses, his Pentatach." At Balamance, the fleadish Dominican, Torquamada, reduced aome 6000 Hebrev valnmes to aahes; and besides anch as were raviahed froms librarien in Spain and Italy, ahont 12,000 Talmudia rolla perished, qirea 4. D. 1559, in Inquigitorial fiames at Cramone (196) These unnameahle deeds were induced by orthodor donbta that, the Hobrew Text, es represented in the scyart-hether oopies, wes orer quoted by the Apostles; (108) bat, in those ages of darkness, little respect oould hare been paid to MSS. even of the New Tencament; for such eccient copies as had been premerved, down to A. D. 1740, at Alcala in Spain, were sold to one Toryo, s pyrotechnist, as matorials for aky-rockets. (197) Quintillian (Inet Orat. i. I), In the first century after Christ, complains that writing was negleoted; but it was not until aftor the barbarian irraptions of the eighth century that " f a crasse ignorance " provailed in Weatern Eurepe. It is omeertain if even Cbarlemagne condd write. The leath to twelih eentoriea exhibit Biahope, Abbots, Clerkf, 哖., incredibly jgnorant : se even in earlier times, before the reventh centary, at the Episcopal Conference of Carthage, the "hrigandage" of Ephesus, and the Council of Chaloedon-at which last there wert forty most incepabie Bishops (LaBer, Concil, is). Few Rominh monks conld read, in the elevonth; the leity began about the end of the thirteenth; but in the fourteenth, the number wes amall.(198)

From these fearful destractions (the Ingaisizorial agonte having acted in obedience to orders sent from Rome), Leconr draws a singular argument in behslf of his owd fret reshorations of the Hebrew Text, maintaining:-

[^182]"That the Hebrew Taxt of the Rible, tried and condemeed by the Hofy Tribunal, barned at an ect of frith at Seville, and in the square of Be. Btephon at Salamancen, proscribed durfig the sixteenth centory, prohibited in the palpite of Catholic prescbers, deciared dangerous, infocted with Judnism, and causing those Christians who read it to Judnise likewise, finds itself-owing to thin solemn condemnation from which it cannot be proged enve tbrough the adoption of a neve trandation - finds itself, I repeat, does this Text, to have lost the oharacter and authority that, in the apirit of Christinnity, the Fathers [only Origen and Jerome] attribated to it. One may, therofore, after all, stady this Text in a now point of riow, parsly philosophioal and phitologio ; and sook in it a new interprotation, without being ecared at the sonse which auch interpretation may produce. The anathema with which it has been atricken has abandoned it to criticiam and to the investigations of the world; tradidit dinputatione: ita testimony is no longor mything bot mere hamna testimony, lisble to error like all things that proced fross men." (199)
Conseding his premines, end allowing for his peeuliarly oatholle point of view, the dedrer Hon is logical; bat they who deny Papla infallibility many continne to reverence the Hebrev Text just as if excomanuication hed never been pronoanced oponit; botwithotending the arowal of those menlfold corraptione which, owing to these Inquisitorial holocenats of andent masurcripts, it seemen row hamanly imposeible to expunge. To parsecutions and to the expulaion of the Jows from Apain, after 1491, the extinction of the most preciour Hebrew exemplera may be, in part, stributed; for Mudian intolerance hed never hoowfingly lide the hand of sacrilege upan docamenta whioh Christion charity has for ever destroyed. (200) Monancurd had huilt up his Kwr'an apon the monotheistic foundations of Masm; (201) and hir frithful disciplos have been alrasa too consistent, whaterer barbaritien they may have inflicted upoc the Jowa, to injure that ohosen people's ancred looks, and therohy stultify thembelves. With roferance to textual corruptions, aays Rermioott (202 :-
"Hec denique sunt varba eruditisaimi Professoria J. A. Starcix - 'cum negari prorsus nequest (si quidem luminibus atf, et antiqnos libros ab omnibus prajudicatis opinionibua liberi inter se conferre velimus) multa et ingentia aqaגpare tiniese sacrí libris; qualis sunh gravisaimi in chronologioia errorem; in historiois manifestan sontrediotiones; numeroram exaggerationes; litorarum, nominsrom, sententiarua, omiskiones, aditiones, transpositiones: questio jure orietur - Onde tot tamque gravea immatationes originem buam habesnt! Et si gravissimie argumentie, quibni solis permota ite aentio, fides babende eat;
 cass, post librarioram inertiem et nogligtantiam.' $"$
To avoid mistakee we bave given the Iatin text, and now effor ite atraightforward signsficstion in English :-
" Bince it cannot altogether be dented (if ladoed wo free ourrelves from an pryjodioed opinions, and wist to compare andent bookn with each other and to avail ourselves of the ingtructions of the learned, thet many ond arepmous afaluara [hapsi, mlatakes] erint in the sacred books; buch as, moat grave errors in chronological (matters); manifest contradietions in historical; exaggorations in numbers; omissions, additions, tranapositions of letters, of names, of ceotences: - the queation will naturally arise, Whence have anch and ao many serious matations their origin? And if faith is to be placed ia moot weighty argumenta, by which alone I am infliencod, every doubt is altogether wanting, (that) firat one must accuse the falliacions and maleroient mind of the Jews, (and) efterwards the juertness and negligence of librarians."
Such are the publithed facts. Yet one marvels at the ways of theology; on secing the Her. Prof. Stuart akip nimhly over that "immenae deaert" with his "gun, man, and dog," (Arma virumque cano, and the degogt air of a jovenile Nimrod, without finding "game enough to be worth the houting;" and then acgerting with equal frivolity, that the Jerish "Bible has remained inviolate"? How can the anlettered diatingaish truth from error, when their Teachere mystify the pleinest resalte that scholerahip the most exalted, honeaty the most unbending, and science the most profound, have atriven to make publio to alı men for the last hundred yeara ?

[^183]Neverthelese, a time bas come in which opinions, that igaorance had hoid down as fondameatal principles, begin to compromise those institutionsl structures beneath which they were placed. Enlightened manhood in a free Republic is fast approacking the hour when such opinions will be openly recognised as nothing more than opinions of ignorance. To sttempt to impede reform, when it is necessery, is to jeopard the whole systom. To refuse to repair foundations whose votastity perila an edifice, is to desire that the downfell of such edifee sball prove that its foundations are rotten. "Creeds," asya Sharpe, speaking of the decrees of the cecumenic Councile, "composed in the dark have nov to be dofended in the light, and thoae who profess them have the painful task of emploging learnligg to jastify ignoranco." (208)
A point has been now attrined in this exposition, when a brief recapitalation of the halts made daring our journey will enable as to dismiss king Jameg's version from farther consideration. We opine that the foregoing pages have egtalished, upon archeological prinoiples and edequately for the demands of positive philosophy, -
1st - by authority of the higheat Biblical critics ;
2d -by exegetical exposure of some of ite false-translations;
3d - by hiatorical testimony, that all veraions in English, (being mere popalar necommodations of defective editions printed in the "Original Sacred tongues,") bave only perpetvated or increased whatever errors their antecedent editions ooniain;
4th - that beasuse the Latin Vulgate, printed or manusoript, abounds in miataken;
5th - that because the Greck Septuagint, if ever a faithful representative of the Hobrev: original, is so no longer, ta any printed editions or manuscript copies now known; and that tradition, well authentionled, proves its vitisted state as far back as the frst centary of the Christinn ers;
6th - that becarase the only men, Protestant, Catholic, or Rabbiniosl, whose decisions (owing to their respectively minate collation of every printed edition or manusoript exemplar of the Hebrew Trat) oan be weighty in the premises, have pronoanoed the Whole of them to he radically, enormonaly, and irretrievably corript ; -
in riew of all of the above facts, we have a right to conclude that, our Eaglisb "anthorised Transtation," mede 250 years ago ander oircomstances anturally edverse apon documontu an faulty, can claim, in science, no higher respect then we should acsord to a poor translation of matilated copies of Homer; and finally, that those individuals who art most olamoroun in its praises only bem witness that they possess the least anquintance with ita origin and history, however familiar they may be with ite contents.
But, universal orhodoyy, regardlese of the collective researches of three centaries, insists apon our credence that Moses wrote the Pentateuch; and still stigmstirea thoate who reopectiflly solicit some evidences of this alleged anthorship (a little more conclasive than eccleniastical tradilion) with terms intended to be opprobrious; of which, perhape, the most canteons form in rogue nowadeys is "gkeptic." (204) If by this harmeness rocable nothing more is implied than that a "skeptio" bas, by lahorious atudy, atinined to the positive stage of philosophy, while "orthodoxy" vegetates in a sub-metaphyical atratam, it ahould be cheerfully endared; if not with Christien fortitade, at least with gentlemanly equenimity.

The real queation, however, posited in logical ahape, is this: --
The Hebrece Moses wrote the Hebrew Pentateuch. Did the Hebrew Moses write tha Itebrote Pentateuch: If the Hebrev Afous wrole the Hobrov Pentatach, where it the Hebrav Pertatauch the Helrew Hoses wrote?

For ourselves, we do not perceive what essential difference it woald make, in positive philosophy, supposing even that he did: hut, inasmuch as we have embarked in an inquiry
for the purpase of seoertaining the importance which progressive Rthoolegy mast waigo to one docsment; und thin document beppens to be the Xth Ckapter of a Book called "Geaesis," (which some vehemently protent is Mataci, while othera as latly contrediot them, it behooves us to teat certain polnts of these disputed alegations by aroheologieal ariteris; and, anthority ageinst anthority, the aitstion of afew ims holp us in matiog ready for the royuge.


#### Abstract

"And yet no ont, I beliove, has the pretention to underitand perfectly the eenst of Gtraris; no one denies that the text of this book containa many parables, or Oriental allegories, of which the most skitful and the wisest of the Fathers of the Charch have noght in rein for the meaning. - But, thanks io the massoretic pointa and to the auseoptibilities of orthodoxy, things bave come at the present day to sueh a pass, that if Moses himself arose from the tomb to cause all uncertainty to cenes; if he interpreted his own book literelty; if he expoanded it as he had conceived it and reflected apon it; Jerusalem, Rome, Constantinople, and Geneves, [Grest Britain, Germany, France, and the United States,] would convolte thoir Dootors of Divinity from all cornert of the world, to prove to him that he knowe nothing abont the genius of the Hebrev tongue - thet his tranalation in oontrery to the grammar and dictionary of Mr. Thi or Mr. That - that ho doen not por seas sven common mense - that he is as impious (follow) thooe book they had done per feotly right [Rome's ordere, XIII-XVIth centarios] to harn; and thet it is wonderfol how he bad not been eerred ao himsalf in the other world." (206)


Haring now foldlled my published pledges to the reader, to far tes relates to the exhibition of a few atoms of the viciacitudes through which the Xih Chapter of Ganoti han trrelled to reach our day, I am ohliged to bring thin "Arohmologieal Introduotion" to at abrupt olose at this poink. The ressons are these:-
When my collengee Dr. Noth, at Moblle (in April, I862), agreed with me to erett a literniry conotaph "To the minoty of MOBTON," it was mataally erranged thet, in oar division of labor, he would undertake the anstomieal und physieal departunent, embreting those anbjects that belong to the Naural Sciances; while the erecrtion of the archeotogical and bibical portiont was to devolve opon myeelf.
No two men have ever morked together in the same harnese with more perfect harmony of object In the midat of professional engsgemente, whose onerous oherecter none bot the moat laborious of the medical fecolty cen adequately appreciste, Dr. Noth, at the sacrifloe of every intiant of repose, succeeded in eccomplialing, not merely ill that apperains to his part of our enterprise as set forth in Part I., bat also the rerision of my stadies es ochibited in Part II. : each of as, notwithstanding, boing wholly responsible for wheters naturally folle within the specialitiea severally assumed, but peither of na being fairly smenabie for miotites in other than our own departments as above olasaifed.
On the other hand - indepandently of three months, Decomber 1852 to Narch 1868 , spent by myeelf in travelling; and aside from all soparriaions of the prees since the 25 th of August - I devoted nearly twelve monthe of day and night to the performance of my "spudelice" of our joint andertaking; some of the fraits of which have been already ritmitted to the reader's oriticism.

Resolved, in my own mind, to parsio inquirtes into biblien questions, ance for alh urpe ad necem, my manusaripts have, I thinh, completely anstered the Aristotelian proporition above tisted es ooneorns the Pentateuch. Nevertheless, I portpone their publiontion:-

1st. Beosase they do not directly conoern Sidnology, and the main anbjeote of this mork
2d. Beciuse the printers aseore me that my "copy" oould not be condensad, watimecorily, within 800 more of thete pages: thereby randoring it imposilhle to koep "Tppea of Mankind" within ane volume.
Ample, bowever, and far more gratifying than a dry archeologieal diaquisition and be to the generil reader, are the compenastions which diaplsoe my owa performancen : and it is with unfeigued pleanore that, in order to make roon for the papers of our collabortion, I
mutinte my owi essays in subatitating theirs. Perbsps it is for the beat; because the matare of this work may elioit some hostile comments; and he is the pradent eoldier Who "keeps his powder dry." In consequence, I suppress sbont 800 of these pages, sfter mabmitting an oullía of the Priode of misfortune which the canonical Hobrew Text has, to s grest mearure, aurvived, down to CanEi's Bible, A. b. 1881-1849.

Walton, Kenniooti, and De Wotte (to bey nothing of other sources), the reader perecives are tolerably fomiliar to us To extract from their works is merely mechenical; but the foar of tedinm warns un to be colectic. In these matters it is our privata opinion thes, if Titans were agaid to plle Oses apon Polion, sfter rolling upon "Oses the leafy Olympus," (208) they would fail to startie, far less convince, those who lie below the metaphysioch stritum of intellectinal development; for, "an Jannes and Jembres withntood Moses, so do these men withatand the trath" (207) It will bo mora interasting to the onlightened resder to view a briaf historical sehedule of the ehanges which eighteen conturies bave entailed apon the Hobrev Text - condepsed principally from Kennicott's results in hia Diovertatio Gaveralie :-

1st pirliod, B. C, " "In mart ancient tmes, the Hebrow Tert was oorrapt;" and the codex (asy, "fragmentary books") used by the Oreez interpreters of the Old Testsment, at Alecandris, was undoubtedly Hebrow, but s copy not sufficiently emended. Evan Baxtorf is obliged to admit - " "Jadmosa a tempore Fedruenegligentiores fuispe ciros taxtam Hebroanm, ot non ourioson circa lectionem veram."

The numorale wero axpressed by lefters: the five final lettere (kaf, mim, nur, pay, end terde) had not then been invented : the words were atill undivided.
2d PBilod, A. D. down to 500 . - The terte werv more corrupt in the time of Philo and Joeephen Neither in their day, nor in that of Origen, third century, werr the Commandments (Ezod. mi 8-17) divided into ton, in the manner they are now. In Phila the divisiod it quinary, after the fashion of Pythagormans. Abont the latter epooh commences the Tatmadio Niohna; and, in the fillh centary, the Gemara; each of which books proves the increase of textual errore. So do the writingt of the Fathers during all this age - notably St Jerome; thile the apostolic books demonstrate that the Greek differed, mort or less, from the Hebrem original.
3d rintod, a. D. 500 to 1000.-Aside from the later and lese relishle Fathers, two Hebraical works eatablieh, that no expargations of error had been made in the Text: vix., the Robboch, after \& D. 700, end the Firke Eliezar, atier 800. Aboat the airth oentary, the Rehbis of Tiberias commenced the "Maeors": a labor that would not have been undertaken but for the rassons above given, and the wretched condition of the Text in their time ; as proved by the maltitudes of Keri velo Kethit (the read, but not the written) or Kethib velo Keri (the Fritten, but not the read). (208)
4th Fariod, \& D. 1000 to 1450 . -The Jewieh eahools of Babylonis seek refuge in Spain eboat 1040; between whioh era and 1240 flouriahed the four great Rebhis. Their work prove not merely diferent readings, but absolate mistakes in copies of the Text: thinge then axisting in manusoripts of the Old Testament now bist no longer, and cics erra ; while the "Masora," itself, already in confagion inextricable, only rendered mettern worse It is of this age elone that we possest those Hebrew manuscripta by us called arcient-not one 900 years old!
6th phaiod, a. d. 1450 to 1750 .-Printing invented; the art was firt epplied to Pachms in the year 1477; and to the whole Hebrem Text in 1488; that entire edition, espe one-third of a copy, being immediataly burot by Neapolitan Jows. Bot hero, upon editions now following each other with rapid suceesaion, the Rabbis begin their reatomstons and thelr lamentalons. Contineatal scholars now set to vork opon Hebrew in eannest, without professorships: whilst, in Baglend, ting Jemes's vertion is a aplendid


#### Abstract

record of Professors without Hebraism, during the years 1002-'11. Fifty years liter, Walton redeems the shame of Onford; and yet, one hundred years later still, Kennicott bimself chronicles - "the readar will be pleased to obserse, that as the btady of the Hebrew language has only been rediving during the last one hundred yeare:" (209) to end which sentence logically, we ourselves consider that there could be no "revival" Where, in 1600, there was bcarcely a begmining; and, ergo, that the Dochor's atlestation mast refer to incipient efforts, in his century commencing, to resuscitate the Hebses tongue after twenty centaries of burial.


6th and present ptiriod, A, D, 1750 to 1853.
Taking Eichborn as the grand point of departare, we find, after the lapse of a centary, how, through the operations of that "rational method" of Which he and Riehard Bimon were, among Christians, the frat qualified exponenth, the Hebraics! boholarabip of our own generetion (proud of its handred ohampiona) bas truly kept pace, on the European continoat, with the universal progress of thowledge.

Nevertheless, on every side, we atill see and hear the crocodile whimper how "nobody undertakes s nov translation (into English) of Holy Seripture" commensursto with the imperions demands of all the sciences at present advancing - news of the onward steps made by each heing actually transmitted through magnetic telegraphs (210) - and yet, withal, few men in America so hlind as not to perceive that, even in evangelised England, such pecanisty superflaities as those seid to have hoen realized through a "Worco's Exhibition," are expended (God slone knows how or why) apon anything, or everything, rather than in bebslf of a conscientious revital of our Enoush BIBLE.
G. R. $\mathbf{G}$.

## ESSAY II.

## PALeOGRAPHIC EXCURSUS ON THE ART OF WRITING.

The same imperions pecessity that bas constrained us to suppress the contination of Part III., Eseay I. (rupra, p. 626), renders it obligatory to cartail our History of the "Art of Writing, from the earliest antiquity to the present day." This subject, perhapa the most ribl in any researches into the antiquity of the Hebrev Pentateuch, has never yet publicly received adequate sttention from modera echolership. With ourselvea it has been a favorite pursuit ever since 1844 ; (211) nor, did space permit tho insertion of what we had prepared in manuseript for the present volume, should we not have taken some pride in the presentation of a series of facts and arguments thet would antirely juntify every point set forth in the accompanying Tableau [infra, pp. 680, 681].

[^184]As it ls, we can merely recommend the reader, after fieming the three distinct geographical origins bad iodependent developments of the art of writing, to study well the place Which paleography now assigus to the modern square-ktter (AShURI) Hebrew alphabet of " 22 fetlers;" while we diecuas a few general principles, to be amply corroborated in detail on eome fatare oceasion.

## Dioresbional Remares on the enbeing Table.

1. The principle followed (probably for the first time in palmographical disquisition) and exhibited through the annexed table, is a consequence of the wory which it sceompanies. wis "Types of Mankind" tabulatés the varioun specien of the "genus homo" according to their severs relations to the Fiora snd the Founa of their respective centres of creation, the herfonious uningn of all eaiences,(112) when directed to the elucidation of a given fact, cannot be better exemplified than by clesving inte thres well-ascertsined masses the grand enigms of graphicsl origises.

We hold, withoat mental resernations, that history does not justify, archmology permit, or ethnology warrant, any, the alightest, intercourse, between Egypt and Chins prior to tbe days of Crios (as an extreme point); nor between either of these two primordial nations, and the Aborigines of that continent which, pronounced by Agassiz to be the oldeat land, Wes unkotm (from us trans-atlagatically) to inhebitants of the Oriental hemisphere befort Colongul. Some of the physical reasons are set forth in the present volame; and it is plessing to find that palcography entirely corroborates results deducod from other investigetions. To chivalrous opponents, "blanched under the harness" of saiontific parsuits, we respectfolly throw down our geuntlet apon three propositions: -

A - Prior to E. c. 500, Egypt hed no intercourge with Americs or Cbina.
B $\rightarrow \quad$ " $4 \quad$ Americe had no intercourse with Chine or Egypt.
C - " " China had no interconrae with Egypt or America
Until some stadent, qualifed through knowledge of the arohmological actualities inherent in this trisd of problemata (knowiedge to be erinced by the weight in acience of his demurrer), overthrows the principle upoin which our table is erected, we shall not fear for its stability: bay, we offer to bis use the weapons of our armory, by iodieating the ehorteat path to verification of bihliothical accuracy.
II.-The researches of Gesenion (218) and of Champollion-Figenc (214) have been our pointa of departare in the construction of the Table. We have ramodelled them hy the lights which, in the former case fifteen, io the latter twelva, years of discovery demand; fuaing the resolts of both authorities into one; and then separatlag the whole into thred grand stems; lat, HAMITIC, with its Semitish branches-2d, MONGOLIAN, with ita off-shoots-8d, AMBBICAN, whose alender twigs were cat short, for over, by Pizazio and hy Corine

1st. The HAMITIC OBIGIN - atsit with Champollion le Jeane,(215) continne with LepaIas, (216) and olose with Bunson, (217) Birch,(218) Burgech,(219) and Da Saricy.(220)

The Semitic streams hove been followed in the suhjoined order.
Aaide from personal perification of the "old travellers" - Pietro dela Velle, Chardin, Corneille lo Brun, Kaempfer, Niebubr, \&c.; and of the leter, Rich, Ouseley, Ker Porter, Kinnier, Morier, and Malcolna the perueal of De Becy, Tychsen, Mlinter, Grotefend, Saint

[^185]
## THEORY OP THE ORDER OP DEYELOPMRNT IN HUMAN WRITNGB.









## HAMITIC ORIGIN.

 IVth Memplile dynety (eny, Fith Tepodue). Beopodery trm| 8000 |
| :--- |
| 200 |

## AEMITIO ET\&

 Illoy yille Phentalan

Babylonlen, partly kiograpble, bat ohielly phonetic.......................................................... 1000
 Lnimitione) are of the Terlary form - De actic Peprif
Purwiollita anefort.
Boumpophedin Inmerptions; Oreien
.
MONGOLIAN ORIGIN.
 $\rightarrow$ artion momenents ertant, the Inceiption of $\mathbf{Y U}$, with leter remeln ln the Kow-men mirecter, 278

Sd AOB; Japarain
Pind form .....
Pirf form ............................... 99
 mont by Jowich exllee, Chirl than Byried miodong, and Mrn Itr extentions - Fith mome allaht Arime influenota thro' the Surachit-prodnce oblenges the Sumbin-prodice ablapges apon hoasoun
th AOE; Alphabet Hongel
Bingent firme bo, to; wome in. ollolng toreted (bineme, otber relther comed komeril am allan.

AMERICAN ORIGIN.边 AOE; Provin mown -40 tr........................ ! Mrolem manerata....... [AnteColamilas-prinoplet onlonowa.]
The poat-Oolumbinn info. eacep lumat allilnike, pileographicelly, Fith the pert Fhat sloms of axtrincous
 Fiocen type of bumanity, bogin whit the Axtenath enitury ather Cbrift, and se mimply Europent. Even the Cherabes alphe bet la the invention of
 B mefrowe Beotohman.


Martan, Renk, Burnouf, Lassen, and Westergeard; the possession of the major portion of the folio platea and texts of Botta, Flandin and Coste, Layard, Tecier, \&c. ; is d the inspection of whet of Asayrian sculptures were in London and Paris daring 1849: (281) - our view upon Ascyro-Babylonian writings take their departure and are derived from the series at foot, appended in the order of our studies.(222).

Egyptian hieroglyphical discoveriea had long ago rovealed the fact that, as early at leagt ss Thotmes III, of the XVIIILh dynasty, aboat the airteenth centory 日. c., the Fhar reohs had overrun "Naharines" or Mesopotamis, with their armies. Accepted, like all now truths, with hesitation, since Rosellini's promulgation of the dsta in 1832; or at frat entirely denied by cunestic discovertert, who clained a primecal epoch for the sculptures of Ninereh and Babylon; nothing at his day is more posilively fixed in historical science than these Egyption conquesta over "Ninereh" and "Babel," at lenst three centuries befort Derceto (the earliest monareb recorded in cunojform inecriptions) lived; rssuming Leyard's lust riem to be correct, (228) unt be flourished abont b. c. 1250. At foot we present the order in which an inquirer meyinvestigate the discoveries that bsyo finally set these questionsatreat; (224) while the following extracts from Hewlingon will render forther doabts irrolevant:-
"That the emplogment of the Cuneiform character originated in Assyria, while the arstem of writing to which it wes adapted whe berrowed from Egypt, will hardly ad wit of queer tion : . . . the whole structure of the Assyrian graphic eystem evidently betrays an Egyptian origio. . . . The whole systam, indeed, of bomophones is cusntially Egyptian." (225)

It Is upon such dath that, without addncing other rensons derived from personal studies We bave made the earliest Semitie stream of our Table fow outwarde from Egept into ancient Mesopotamis - aseigning the period of its Eastward flux, secording to well-known conditions in Egyptian history, as hoonded by the XIIth and XVLIth dynagtiea: that is, between the twenty-second and siztenth centary e. c.; Which sge, placed paralial with A rohbishop Ueher's scheme of biblical chronology, implies from a littie before Abrahem down to the birth of Moses. No Egyptologist will content this view: the opinions of thote who deng, withoat aequaintance with the works submitted, sre " wor et preterta nihil"
 One 2d Muniaipality ed Naw Orleann; 6th, 9th, 13th April, 1B52; by O. F. O.






 wonid be lajurtoe to en author "qui a priat in dea bonned sources," not to recommend earneety to the dineme





 The rader will ind it, in the monnwhlle, an aronliant adjones to our "Table"; and the followlag extrects,




 of One Art of Writing; London, 1863 ; pp. 1, 3
(283) Babyicn; 21 Ex.; 18ss; p. 623.





(215) Ormantary; 1880; PP. 4-

Scholars, guided by the books efted for jastificatory details, will find little to altor in the general features of these several alphabetical streams an their respective monumental rocks flrst pierce through the mists of traditionary bistory: except in one direction; vix: where we have made a Sanitic rivalet (probably through Chaldman channels) commingla with "Abian elementa" in Hindostarl. "lndology" pill protest against profaning the sanctifed boil of Indra and Brahima with the mere "tril-race" of a Semitic pond, originally filled by the Nile! Shades of Wilford, Faber, Heles, and apirit of Edgar Quinet! In Germany, appeal will at onee be medo to Von Bohlen! In Wedes, to Arthor James Johnes, Req. ! (220) Does not every body know, it will be said, that primordial civilization (unceremonious! lyicked ont of Ethiopic Nerod by Lepaiua, flat dewned upon the Ganges? that Momphis, (if not also Palonque, and Copen, ) received her boliest Ponstes at the bands of , Siva, Vishnu, Bhairava, Grishna, or any othar Indian Dejty a pundit may invent? (227)
Witb sll deference, ater the firat horrors excited by our outrago shall have culmed down into philosophical contompt, we beg to offer a quotation:-
"The people of Hindostan and the ancient nations of Europe came in contact at a single point. The expedition of Alemnder the Great begine, and in some sort ends, their connexion. Fven of this event, so recent and remarkable, the Hindus bave no record; they heve not even a fradicion that can with certainty be traced to it." (228)

Our author, who stands out in bold reliel among the Sanserif sobolars of England, wonders at the credulity of thpee who reject Chaldaan and Egyptina antiquity to worahip Hindostanic; administering atern rebukes to writers who trust in the "absurdity of Hindu statementa," - a people utcerly " destitute of historical records."
The same historian, in Notes on the Mudra Rakshana, says: -
"It may not here be out of place to offer n few observations on the identification of Chandragupta and Sandracottus. It is the only point on which wee can reat with anything like confidence in the history of the Hindus, and is therefore of rital importance in all onr sttempth to reduce the reigne of their kinga to arational and consiatent ohronolog."

Turnour, (229) snms up his revier of Hindoo literatare with saying, -
"That there does not now eniut an authentic, connected, and ahronologieally-correct Hindos history; and that the absence of that bistory proceede, not from original deficiency of historical data, bnt from the cyrtematic perversion of those dsta adopted to work out the monstrous scheme npon which Hindoo faith in baeed."

The preceding extracts, we bope, may serve to break the fall of hage Indianiat edifices from the highest peak of the Himslays to a level bnt little expected by general readers. That we are not altogether freabmen in these Hindoo demolitions may be inferred from a passage, printed five yeara ngo, which we now take the liberty of repeating, with ita Italian preface: -

$$
\begin{aligned}
& \text { "Condono le eltil, exano } 1 \text { regul, }
\end{aligned}
$$

"That the peninsale of Hindostan, thronged with varied popolations, posseased great Empires and s high state of oulture, in ages parallel with the earliest monuments of Egypt and China, apon whose civilizationa Indis exerted, and from which she oxporieuced infueaces, in the flux and reflux of Humenity's progressive development, no one, niri imperitur,

[^186]Fill deny: bat the ballacinstions about early Brahmanical science in Astronotny, when their Zodiacs are Greek, their Eolipsea calculated bachwarda, and thair fabrione chnobolog is built opon Chaldear magianiom, leave the historieal antiquity of India prostrite beneath the axe of the thor-ehrovologist. 'Un astronomo pud, se Frole, far le tavole dell'ecelisia che arranno loogo di qui a cento-mila anni, se il mondo evisterin; prdagualmente determidare lo stato, nel quale sarebbesi trozato il cielo oentomil'mai fo, oe il mondo exintere:' (Testa, 'Dissertanione soprs due Zediaci'' \&c.; Rome, 1808, p. 28.) The Hindoos, in concocting their primeval chronology, merely added a naugh to Rabyloninh oyclio reckoo-ings;-4,820,000 years, inntend of 482,0001 (De Brotonne, 'Filistions des Penples,' 1897; rol. i., pages 284 to 251 , and 414.) See ample conflrmations of the above viev in the critical work of Wilaon ('Arlans Antiqua,' 1841; pagee 17, 21, 24, 419; 44, 15; and particularly page 489, wherein it is shown, that numismstio studies cesse to throw light $m$ Indian antiquities about the middle of the third century E.c.").
"When, therefore, the contenders for the ante-dilurian remoteness of the forty-aighlettered Sanecrit Alphabet ann produce any atoma, or other record older than the 'colume of Allahabad in bonor of Tcrandia-Goupta, Sandracoduc, ootemporny with Benercua Nicaron, b. c. 815, it will be time enough for Hierologiste, Sinologistn, Hellenists and Hebraisth, to take into account the pseado-entiquity of $\$$ arserrih $A$ phabetical literature." (231)

Our profession of frith in theee matters, identleal with the doctriaea we hold at this day, shocked some literary prejodices.' Neverthelean, it wes besed upon tolersbly artentive peraal of works on Hindoo antiquities; and it is sopported by the outa end thrusts of e apordeman, whoee tremehant blade, notehed on the batile-fields of Hindortan, atill preserves ite keennese smid the bloodless atrifes of arehmological polemics - Lient. Col. Byten. (2x9)

From his matebless overthrot of Europen superstitions, in regerd to Iodian entiquity, we have already oxtracted two parsgrephe containing the decisiona of Wilson and Trrsour. Fe now condense his own applicstions of cold steel to some of the ritalities of Hirdontenic pretennion.

There existh but one Banbcrit compoaition that can be called "hiatory;" vil the Roje Taringini, compiled 4. p. 1148 . It conlains ancehronisme of 798 , and of 1048 yeen! Priar to the fift century after C., "ingcriptions in ptere Sangois are eatirely wentig" - the earliest Aenscrit inacription asconds to the fourth century, bat it is impure it lengeage and not orthographic. Between the tenth and aevepteanth ceantaries of our ers, Samparit foscriptions "roll in thousands!" The very Sansarit language, in the polished form in which ith litersture renches ub, onn no more be foand mowtenentaly in India, before the ifth ceatary wflar C., then the Engliah of Byron could appear in the daye of Gower or Chancer. In consequence, those Germanic writers who, in their apginilationt (whioh art positive enough) of Greek, Lstin, Germen, or other Indo-Baropean idiom, forgot thest Sanderit has ondergone even grater transmutations than our Baxon verneonlar hide tioce the reign of Alfred, often commit philological oversightn of mablime magnitude:
"Why are thare not," anke Sykea, "the seme tangible sad irrefragebie prooft extant of the Senserit as of the Poli language: the more particularly no an Brabmenism and Aanocrit have hitherto been believed to emanste from the fabled ages ?"

Commencing his deep researchen with the more recent Sensarit insoriptions, and treing them backwarde es far as they recede, Prineop (288) resolved the modern forty eatght $D_{\text {met }}$ Nagari oharactars abeolately into the primitive latiara of the old inscriptions mrittee in the "Lat" charsoter and Poli language - the roneontre of graphieal form that epproximated to the ancient Pali type fitereaning exactly in the ratio of the antiquity of each generrit inscription. Of these lagt, the most anciant known dates 4. p. 309; being just 624 years posterior to the oldest Pati inserfption discovered throaghont the Hisdostanio peninsula!

Now, this oldeat Pafi insoription ls found on the "colamn of Allahabad," whereapen it

 _Jowr. B. APintic Sbe; London, 1841; 7ol. Th pp. 248-484.





Fes chiselled in the reign of Tohendra-Gupta, who is the Sandracottw of Greak bistory, coetsneous with Selecueas Nicator in the year b. c. 815. All Indis afforda nothing, witten alphabeticalby, more ancient ; and this age is 220 years later than the alphebetic coneiform of Persepelis; or above 800 yearn after the Greeke had already adopted the Aleph (alpha), Beth (bota), Gimel (gamme), Daleth (delta), of the anterior Phaniciar alphabet! The Identiffeation of "Sandrecottas" is moreover proved hy the next early inecriptione known in the Paij tongue; vis, two edicta of Pisadasi-Asoka, a king of Indis in the year e.c. 247; Who refars to his contemporery Axriocsts the Great; jast 62 yesrs after the oldent inscription, whose epoch atands parallel with Syizucde. Thus, palesographically, the antiquity of Iadia has fallen, never to risa again: and, inaspoush as the Brahmans cortainly atole their Zodiace from the poot-Macedonian Greek; and probably aome Levitical ceremonials of Manou from Jewiah eriles; there is no reanon Theterer, yet published, against our theory, thit alphabetic writing also reached Hisdostan, throagh $A$ rian chenneis, from those Semitic atreems the tource of which is now irreveonbly traced back to Hamitic origines in $\mathrm{Bg}_{\mathrm{g}} \mathrm{PL}$
"All those ancient system of Peroio writing with which we sre megasinted, althongh applied to Arian dialeots, are ohviously formed on a Smatic model. I may notice, in chronologioal anceeseion, the writing on the Cilician Daries; the Arisnian alphabet of which the earliest cortain epeoimen is the tranecript of the Edicts of Asoke), with ita derivatives, the numismatio Bactrian, and the charsoter of the Buddhiat topes; the Zend; the Parthian; exhibiting in the fascriptions of Peraie at least three virietien; and the Poblerr, lspidery, damismatic and cursive. These several brapohes of Paleography are all more or lees connected (284)

Thus much to justify our table. Bet, "Titius or Semproning" exclaimg, have Te not the Sanscril Fadat, the Epies Mahabharata and Ramayana, the "Lavis of Manon," and the Promart Did not Bir William Jones fx the age of the Vedss is the fifoonth eentary b. c.; that of the "Institales of Menp" in the tweith $\boldsymbol{f}(235)$ Were not similer opinions held by Colebrooke and Bahlegel; and are they not aupported by great Indianisty of oar own time't Conceded, gentremen. Knowing nothing of Sansorit ourselves, we are as litlo able to apeak decisively as those bitteratokrt who will be most startled at our andecitiea. Lingnintically, there art not twenty-five men in the world whose judgment, matured by comparative arehwolotg, is really authoritative in this discursion. In the meanwhile, palcographical facts openk intelligibly to all edveated minda. We might add that Profeseor Wileon thinks the Veder may, in part, ascend elmost to the sixth centary a. o.: but Sykes's asbre is not wanting in our defenct; so let ne oontinue.

In the first plece, it is hiatorieal, that the Brahmans, in their efforta to destroy Buddhism, dealt, by the ascient terta of Hindos treatises on religion or traditions, precisely as the Inquidtion did with Hebrev. Bcriptares that exlsted before the tenth oentury of our era i. e., deatroyed theme. In the second, two Chinese trapallern in Indis- Fa-hlan, in the fourth ceotury, end Hionan-thang, in the seventh after Christ - have (onfortonately for Brahmenionl reopectablity) chronicled how, in thin interral of three hendred years, the disoiples of Brahme had arpanded, from an incipient bud, into that dalestable flower in which Sanemit literatare portrays therg-brer nozions at $U_{p}$ par bloesoms.(286) Thelr accounta are confirmed by the Chinese eneyclopendist, Me-tounn-lin; (287) who registers that, bout 602 a. D., the Brakman mert but a amall sept among the Buddhists - "flat smong the tribes of barbariane." It may sloo be mentioned that, in the time of Bodpra, olxth oemitury 日. o., the Hindoo popalation whe olasped alresdy into those four grand diriaions which attest, as

[^187]Panthier well remarks，（238）＂the diversity of races conquering and Fenquished at w Fery eariy＇epoch；＂viz；Brahmans，priests；Kchatriyar，soldiers；Vaisyas，tradesmen；and Soudras，serviles：（239）but the Chinese Fa－hian shows how，oven in the fourth eentary after C．，these divisions were merely civil，and not yet religions ordinanoes In shart，it is now certain that the＂caste－system，＂（240）which（it is likewise thoronghly established）Tas never known in Egypt，had not been invented in Hindostan antil Brahmanieal anperotitiont obtained predominance long after the Christian era．Bo again with respect to moet of thoes prohibitions of animal anstennee，and other＂nnclean thinge＂，which nome have sopposed that Moses learned from primeval gymnosophista．Forhidden，for practical hygienio motives，among Pharaonic prieste，Pythagorear philogophers，and among Lerselitish no lesa than Mohnmmedan Arehinns，pork was equally proscribed by Manoti：（241）＂The regenerata man who knowingly may bave eaten mäshroom，domestio hog，garlic，wild－oock，ocrion，of leek，shall be degraded．＂Now，ba Sykee inquires，if the lewt of Manot hed been in exis－ tence prior to the Christian ers，how came it that Dedpha died of dyacatery from enting pork，and that hog＇s fleah should have been the aliment of early Brahmanical aserica：

When enthusiastic Indologista shall have explained away the above paleogrephical ad historical objections，they will be at leisure to defend the alleged antiquity of the Samarit baoks themselves．Here is a little thing calculated，an Lanci writes，to＂acaponire i grettr capi．＂（242）

The＂Puranas＂olaim for Rama a date momething like＂867，102 yeara before their compi－ latiod．Bentley fired the prom Ramayana，by ite idtriasio evidences，at A．D． 291 ：and Wilson，together with the beat Banscrit critics，determines the age of the eartiest＂Puranas＂ between the eighth and ninth centriry after Christ．Such being the facts，Sykea edoces as follows．

Bir W．Jonea（Prafase to the Instifutes of Menu），aspumed＂that the Vedar mast berr－ fore hese heen writton three hundred years before the Institutes of Mend，and these Insti－ tutes three huadred years before the Puranas．＂Then，Byket＇s deadly aword gives paint－ as Wilson has proved，from internal ovidence，that the＂Puranas were mitten or compiled between the eighth and foarteenth centaries of the Chriatian era，it follows，mecordipg to Sir W．Jones＇s hypotheals，that the Intitutes of Ment date from the fifth centary（Ansir D）， and the Vodas from the second century．＂Honumental colligraphy expports this fiew；whila the Vishns Purens（dated by Wilmon at a．D．954）brings the polighed Bansarit langange down an late ss the tenth century．Anslogy also，in adjacent countries，pointa to the ano solution as to how Lamaiam and Rozsanism present sach striking idontitice．It is said by Father Georgi that＂Writing，lawa and religion wert introduced into Thibet about the year 65 atter Chribt．＂（248）Thus，we learn that Thibetan pretenaions，which have move affinity with thase of Hindostan than of Chins，lend no support to Hindoo antiquity．
The geogrephical names in Hindoo literstare wofally invalidate the antiquity of and books：becanse，if the montion of＂Yayanas＂（Ionians，IUNim in Hebrew and in Assyrime ouneiform，Yoondn in Arsbic，and YUNIN in old Egyptien），does not poodtraly prove a writer posterior to Alexaspre，e．c． 880 ；that of＂Tohinas＂（inesmuch as the Celestind Empire was not called Thein，Cbing，before the year 250 日．c．），at once kncoka deve o book to times aftr that ers．（244）So agajn，as Indo－Soythians djd not penetrate into India before B．c．125，allusion to the Sakas must proceed from an mathor who lived sabast－ quently．Now，the Ramayana nud the Mahabharata hoth spenk of＂Yavanus，Tchinea，and Sakas；＂and ergo，the latter cannot well be older（aside from other reasons）then the

[^188]second oantary aftar Christ, nor the former earlier than the fifh; in no case can either entedate B. c. 260. Bat, wildly shriek our Brabmanista - the grottos of Ellora, Elephanta, Adjunta, \&o. $\boldsymbol{f}$ Alse, gentlemen- Bykes asya, not one antedates the ninth century after Christ! Even Prichard, following Priasop, does not congider these caves earlier then "a century or two prior to the Christian ers, when Buddtism flourished in the height of ita glory from Kasbmir to Ceylon" (245)

We delude ourbelves, probsbly, with the belief that our opposeate in hiblical studies will concede that, in our hands, the knife of criticism is double-edged; and that we apply it equaly to the notions of Hindoo as well as of Judiann commentsters. In the last century it wha the fashion to exalt Sanscrit literature at the expense of Jewish; greatly to the discomfort of orthodory. The latter may now console itself with the assurance, that ita Bindostanic apprebenaions were puerile - for, beneath the most ralhless soalpel, s Book of the Jaw of Mosms" atands erect with vitality, in the sixth century e. c.; that is, 200 yeara before the oldeat Pali document of Indie wbe inscribed hy Chardragerpa.

Fith the judicions reflections of snother Sanacrif authority we take laave of Hindostan; meraly mentioning that our own analysis of Xth Genesis has ontirely confirmed the doetrine hrosched by the lespred Col. Vans Kennedy. (246)
"Althongh I do not derive all the nationa of the earth from Shem, Ham, and Japhef, I sill think that Bahylonis [we read, Aasana] was the original seat of the Sanamit leagesge and of Sanscrit litersture. . . . But this error [i. e. the contrary hypothesis] necessarily procesde from the asanmption, that the first eleven chapters of Genesis give an authentio coount of the oreation and of the earlier ages of the world; which renders it necessary to insalt common sense, and to disregard the plainest principles of evidence and ressoning, in order to prove that all the races of mankind and all syatems of polytheigm were derived from one and the same origin."

Those who heve leaned upon Faber's hrozen reed would do well to perase our author's Appendic - " Remaris on the Papers of Lieut. Col. Filford costained in the Asintic Retearches." To others it may he satisfactory to know, that the earliest Greek mention of India (Sind) ocours in Aschylus, B. c. 625-456: While, about the same timea (if Eira compiled the "Book of Genesis," as patristio anthority sustained), tradition - Which, in orr venion (Gen. iv. 16), sends Cain into "the land of Nod, on the east of Eden"-probebly cousecrated some legendary rumor that the forlorn outcast had escaped to the Bin-dw-"hiNUD, towards the East of Eden," itself located in Mesopotamis; which Indian people are atill called HINooD, by the Arsbs. (2ti) India becsme known to Jemi and Greeks after the former had been caplive in Babylonia, and after the Persian invasions had given new ideas upon $A$ siatic geography to the latter.
intending to publish other justifications of the correctnets of our Tableau [supra, pp. 630, 031] on some futore ocasion, we suspend further discussion of the "Semilic stream," and merely submit spocimens of that character upon which we have bestowed the name of "Assyro-Phceni-
$F_{10} 360$.
 cinn" If, as Dr. Layard states, bome of these relics were pouitively found in the "chamber of records" opened by him at Konyan- Fio. 861. jik, (248) and if, as be declares, they are really of the time of Sennacherib, B. c. $\mathbf{6} 03$ to 600 , the reader beholds the very earlieat known anmplee of prody-alphabetic writing hitherto discovered. They will become the more procious to his eyes, inasmuch as (in the contingency that Dr. Layard is ctrain that Fig. 860 belongs to Sennacherih's reign) here is the clogest ap-
 prosimation to that (unknown) character in which the oldeat Ifebrew books of the Dible were orlginally witten: which fact we shall demongtrato elaewhere. For

[^189]
fear of misapprehensions, let us aleo note that tho sbowt araiat charactert are entirely distinat in ajo from thow on the modern whd rabbinicel "Bowls" (248) from Babylonis which Mr. Ellis's remarka might lead othars that areheologints to inveat with the halo of antiquity. They cannot attein even to the third century afler C.; end, indeed, mey descend to dajs after the Moheraedan eonquests. Until we can resume the subject, the roeder will find a place saigned to them in ort Toble under the heeding of "Hebrey Babylonich".

2d. MONGOLLAN ORIGIN, - We give this designation to a syatem of writings diatinet organically, chronologically, llogriatically, geographically, paleograpbically, ethoologically - in ahort, aboriginally - from any alfinity with Semitic atreams, or with the katter' cablmon Hakizio eource. To comprebead us, the reader need bat open the works of Pan-, thier; (250) without perplexing hiraself with other defnitions, until he finds the former incongistent with acionce, history, reason, and probability.

It in, borrevier, from his Sinico-Egypticea that the principlea and examples of ourr anthats oritical realts muat be githored; and, beving advocated them on a former ocession, (251) Feroturn to them Fith pleasure increased by sabsequent varitications of their acearacy.

## Patrintis Thrif Aora of Weitigal

"10t Aan - The fgared representation of objects and idees; otherwise the pictorial age
"Ot this ago woseses nothing that oun be afely referred to primeral antiquity. All berbarous nations, like the tribes of North Ameries, still strive to perpetnate their aimpte traditions by pictice.
"To this age, with a probsble infusion of the syoubolieal slemant (although, es jeth whether of their loat lenguagea, ondeciphared writiggs, or obronology, it may bo eatid that we literally know nothlng , may perhaps be referred the priciers and mo-called himaghpin of the ante-Colamblan monuments of Moxion, Central Amerrics, and Pert.
" 2d Aan. The alfered and conventional representation of objeste ; otharwise the aramionperiod; when the pichoral signe pass into the symbolical, and thence gradually into the byllibleo-phonetic.
"To this ege belong the idengraphic writings of the Chinase necondary period, elassitied
 annalists, the KOU-WEN, or antique eriting. 2d. - Memive Anriquiry : B. c. 820 - be TA-TCHOUAN, or alterd inage of objects. 8d. - Low Antigurrm ; a. c. 227 - the 8LioTCHOUAN, or image still more allered of objects. 4th.-Modsrn Tines; s. c. 200 to A. D. 1128, and atill in nee-four kinds of current writing and typography.
"The ebove are formed opon pringiples preenting pome few minalogien, but in the ment remsrkable differences, when compared with the Egyptian phonetic aystem.(25s) Uodar the same age may be classed the hieroglyphical and hierafic system of Egypt, the lattor being s techygraphy or short-hand of the former.
"Albeit that we hava bat very vague dats in this reopeet, it is exceedingly probable that all writinge began by being figuratice and syllabic before they beoame puraly aphacrinal Many alphabets, such as the Samectil alphabet, the Ethiopic slphabet, the Poxpalitas (withaut appaking of the Japantes and Correan alphebeta), are atill almost completely ryllabic, and bear evident traces of a figurative origin. (254)
" 8d Aas..-The porely-phonetic expression of the erticnistions of the humen voice : otherwise the atrictly alphabetical age; to which belong all writiog which rapresent no mare then the rooal elemente of humen ertionletions, redaced to their almplext expression; i. e., A, B, C, D, \&o.

[^190]"To this belong the Enchorial, Danotie, or Epistolographic charsotert of Egypt, detached from oecasional figuretive and eymboliosl sighs."

Nothing to the atudent of Pauthier'a work can be more clear then that the primeval tgpe of Mongol man, whose centre of creation lies along the benks of the Hoang-ho, and that other (orgenieally distinct) Hamitic type whose centre is the Nile, after each one in its own region had pansed through all proliminery phases of ite individual development, resched, et an age on either side equally beyoud fradition, the power of recording things by pietarea; just as the Americen Indian around us, spurning every inducemant to proft by our graphicel sth, still traces on the berk of trees, on rackn, on brfililo-robes, those rude desigus Thereby ha hopes to annibilato space and tima the the tranmiasion of his thoughts.

If it be grented that an Egyptian, or a Chipese, could singly arrive at the discovery of thia the hounhlest stinge of lettorn for himself, why refuse the asme aspacities to the other? One nstion of the two, at least, must have discovered thia pictorial art for itself, moft certainly: bor then attribute tuition of another world of men to either, when the graphical tysnems of beth are radionlly different t

Nearly a century ago, after applying vigorous strictarea to the theories of Needhsm and De Guigres (we might add Kircher, De Pauv, Paravey, Wiseman, indeed orthodozy generally), who clamed that either Chins tanght Bgypt or Bgypt Chins, Bighop Farbetion thus emphatically pleced the queetion in ita only philosophical light:-
"To conclude, the learned world sbounds with discovertes of this kind. They hive all one common orginal; the old inveterate error; that a simllitude of oustoms and manners, amongst the varions tribes of mankind the moat remolo from one another, must needs arise from some commanicetion. Wherses human sature, withont any help, will, in the same cireumstances, slvigs oxhlbit the same appearencee.' (255)

How, it may be asked, do Fo bow that the pictorial was the firat, or rather the enterior, age of writing in Egypt, or in Chine: Aside from all argomente of analogy that piciures are the radimental rritings of semi-barbarism at this day-alroadys vant atep higher than the ravige Bajemsan, Papwar, or Patagonimes, hes over attined-it in proved, in Bgyptian hieroglyphice of the most ancient and para atyle, (256) by their being, as far as perfeotion of eculpture and virid coloring can make each thing, the exact representatives of natural and artificial abjeole, orery one indigenons in nature to the palley of tha Nine: and atterly foreign elsowhere. In Chins, the pictorial epoch is reached by treoing backwarda eech matation of chereoters, age by age, to the primitive Koo-vras; whioh is a teohygraph, or ebriggement, of matural or artiflain productions, sll autocthonons to the region of the Hoang-ho.

Of course, coples bowever rude of tho same things must present certinin fdentities, whether delineated in Chins, Egypt, or America; but jast as a parent inatinctively detects Fhich of his childron has wrewled a given form; or that a man betrays to otherg his individuelity by his handwriling; so arohaological praclice anablet an observer to point out the dietinctive peondieritien of a given peoplo's designs. The latter, mortover, tell whence they oume by the rery aubjects flgared. Thus, if, in a series of sharacters oalled "Egyption of the IVth Memphite dynasty," a cariel, a horse, a cock, were deaigned, the presence of either of thene animals woald prove the document to be a forgery; because camele, horses, and eocke, were anknown in the ralley of the Nite for a thousand and more years later. in Chins, cocks and harses (257) were indigenous, like the silkworm, from the commencement of creation in this geologioal period; but, in her primitive pictares, there are no EgJptian ibives, nor papyrn-plants. No raflecnahes, magnolia, or bison, an be discovered in

[^191]the pictures of Chins, or of ErgPt, hecause these hingt are indigenous to the Amerien continent - until Conombus, segregated from the entire Old World: neither till tha Grecian acanthus, the African lion, or the Asiatic alephant, appear in the seulptarea of Yucatan or Guatemals ; simply becsuse, to American man, theas objects were unknown Each centre of creation furnished to the buman being created for it the models of his incipient deaigus. It was materially impossible for him, without intereorrse with other ceptres, to he acquainted with things alien to the horizon of his nativity. An ornithorynexs, or a kangaroo, if found in e picture, wonld establish-I日t, that such pictare could not be Egyptian, Chinese, or American; and 2d, that it was made within the last two centuries - that is, aince the discovery of Australia by Europeen navigalors. Payge Koight laid down the rules:-
"The similitude of these allegorical and bymbolical fictions with each other, in erery part of the world, is no proof of their having been derived, any more than the primitirt notions which they signify, from any one particular people; for as the organs of bense and prisciples of intellect are the same in all mankind, they would all naturally form simiar ideas from aimilar objects; and employ similar signs to arpreas them, mo long as matanal and not conventional aigus were uged. . . . The only oetain proof of plagiary or borranigg is where the animal or regetable productions of one climate are employed ns aymbala by the inhshitants of another. . . . As commercial oommuniastion, howerer, beesme more freo and intimate, partionlar symbols might have been adopted from one people by another without any common origin or evan conacxion of general principles." (258)

These fer remarks gufflice as anggestives, to the thoughtfol and educated, of the radiel distinctions which the first glance perceives when comparing the ancient sculptures of thret aboriginal worlds of art, Egyptian, Chinese, or American. Dut, jast as a phynicina's Writings presuppose that his readers bive passed beyond the elementary achoolroome, ic it is not in "Types of Mankind" that any one need expect to find an archarologieal "Primer."

We retarn to the ant-monumatal pictures of the Nile end the Hoang-ho - the former, long anterior to B. c. 3500 ; the latter, to B. C. 2800 ; being the minimum disiance from our generstion at which the graphical system of each river's denirens figst dawn upm our view.

Impelled by the same baman wants, though absolutely without inter-commanication, the Mengol Chinese for hia part, and the Hamitic Egyptian for his, attained, at periode unknomn, the power of representing their several thoughts pictorially. Where they copied the same universal thing - the our, a star, a goat, a pigeon, a make, a tree (though bere even, in Flors and Fanas, already the two countries exhibit distinct "species"), - thoes copies necessarily resemble each other; althougb, in each, art betrays the indiridualitises of a separate human type. Where the Chibsman, however, portrags a man, that men is a Hongol: where the Egyptian draws a human being, that being is an Egyptian.

No stronger exemplificetion of human inability to conceive that which is beyond the circumference of local experiences, can be met with, than in Siquier's exbumations frow the primeval mounds of the Weat.(259) Not merely is the skull, divested by time of is animal matter, osteologically ideatica! with those of Americen Aborigines of this day; not only does every fragmentary relio which accompanies it limit that antique man's boanderies of knowledge to a space longitudinally between Lake Saperior and the Gulf of Nesieo, and laterally within the Alleghtaian and the Rocky Mountains; - Bat, every pipe-bord, ar engraved article, that bears a human likeneas, portraya an American Indian, and no other type: hecause man can imitate only what be knows. And finally, to bring the case home to our biblical researchen, dota not every line of the first nine chapters of Genesis prove

- that Hebrew wrilers never conceived, in speculstion upon creative origiars, enything alien to themselves and to their own restricted sphere of geography: At their point of view, the flrt pair of human beinge conversed, st once, in pure Hebrow : - nay, the Talmadic books

[^192]show, that this divide tongue is to be the futare langage; the epeech in which the "ulcima retio" will be meled oat to all hamanity in heaven!
"Concladam . . . verbis Rabbi Jehosum in Talmud qui cuidam curiosè percontanti de olatu resurgentium ad vitam mternam respondat, Quando reviviscemus, cognoscemue gealia futurus sit eoram atatur. Sio de futura lingas Bentorum in calis, quando reviviscemus, eognoscemus illam." (260)

Independently of one another, then, Mongolian man on the Hoang-bo, and Egyptian man on the Nile, each arcived for himgelf at picture-writing: yet, after casting a retrospectivelook at the relative epocbes of both achievements, we behold that the difference between their chronological eras is almoat as immense as when $\begin{gathered}\text { me, who in this day actually "print by }\end{gathered}$ lightning," see an Indian spead hours of lifetime in the effort to adorn a deer+akin with the unconth record of his scalping exploits. At the lime when Prince Mer-het (261) eansed his sepalchre to be carred and painted with those exquisite bieroglyphs, that, through 16 phometic, many figrative, and a few rymbolical sigas, relate his imenediste deacent from King Shoopho (262) bailder of the mightiest toausoleam over mised by homan hand, onder the shadows of which great pyramid this (probahly) ano reposed: at that time, which, it is far more likely, escends rather beyond than talle within the thirty-fith century z. c., or 5400 gears beckward fromi our day - what Tas the state of civilization in Chins? Now, the most exacting of native Chimese archmologists will confesa that their firat Rmperor Fo-hi (whose name embleunatizes to the Chinese mind sbove 1000 years of meta-history, as thet of Moses did to the Hebrev intellect in the age of Hiltiah the bigh-priest),(268) that this Fo-bi-inetntor of writing. (264) throagh the legendery " 8 koua"-scarcely floats npon the foam of tradition's loftiest burge : because, po Chinese echolar claims for Fo-hi'a eemimythical reigu a date earlier than b. c. 8468 ; while conceding that perhaps it may have begran 600 years latar.

And, if we compare montments, then the oldest (266) written record of Chinh ciaims no higher date than the "Inscription of $\mathrm{Y}_{\mathrm{r}}$," entimated at \#. c. 2278 - being ahove 1000 yeart posterior to the Egypcian tomb of Mer-bet, now in the Rogal Maseum of Berlin. All earlier Cbinese docaments being lost, the times enterior to $\mathrm{Yn}_{\mathrm{n}}$ are, palzographicaly, blanks; but akepticism (scientific, not, the most obdurate, theological,) has no more reason to raject That of rotional atory pieross through the gloom of generations precediog, as concerns Chint, than we have to consider fabulons the British pariods of the Heptarchy, although we cannot now individuslize many events, and possese no Sazon "Sega" ooeval with their cecurrence.

A moment's pause will illugtrsto in what respect Egypt's monuments tower as lofily above Chinese antiquity, as St. Peter's at Rome above Net York "Trinity Cburch." Our remarice are not directed to personages who, stifled beneath ante-metaphysical strats, read little ad know less; bnt to resders who have perused, or will examine, the writing of at least Bnusen, Lepaiun, Birch, and De Rouge; without disparngement of thete acholara' ardout colleagues, too numerous for apecification.

Whilst the pyramids and tombs of the IVth Memphite dynasty in Egypt atand, abont a. o. 8500, st the oppermort terminus of that lengthy monamental chain - the coils of which, within a range of twenty miles, may sill be nnwound from Mobammed-Ali's mosque at Caira, link by link, centary by century, and stone by atone, hack tlirough all the ricibsitades of Nilotic annals, for 5400 years, till we tonch the sepalchre of Priace Merhet these pyramids, these tombs, themselves reveal infiaits data apon ages to their construction long siterior; but, how longt Itterly anknown.

For instance, we here present the hjeroglyphie for acribe, triting, or to urite. It is compoanded of the reed, calsmus, or pen; the ink-bottle; and the ecribe's paletle, with two litule oarilies for his black and red inks. It may be seen


[^193]on all monuments of the IVth Dynasty:(268) and its presenoe proves that witieg most hare been common enongh in Egypt during sges antecedent. So agnin, here is -s roll of paryrtis-paper, a volnme, lied with gtrings - meaning a " Book."


Its presence upon the monumente, not merely of the XIIth, but of the VIth, and eren of the anme old IVth dynarty, esisblishes that the invention of paper, and the asage of written volumet, antedate the earliest bieroglyphics not extant.

It woold require an especial treatise to convey to readera any edequate idea of the eopiousness of ancient Egyptinn doonnente written on papyruspaper oxisting end deciphered at the present day. There are some of the IVth (B. c. 8400) and succeeding dynatien down to the XIIth e.c. 2200) in legible preserration; but the great "age of the Papjri" belongs to the XVIIth end following dynagties; (267) that is, from the 17 th eantary ace downwerds. Independently of the thonsends of copies of the "Book of the Dead," there urt
 - in short, it is really more difficult now to define what there is nol, then to catilogue the enormous collections of Papyri, some writien agea before Moesa's birth, existing in Boropen eabinets. At foot we indionta There the curious inquirer may satisty himeolf upon the mocuracy of this statement. (288) And if he wishes to behold the trarintion of Egyptian writing from the hieroglyphic into the bieratic, be need only open Lepriug's Dentmaler. (269) We bave no epace to enlerge upon these faots here, Whioh the writer's Lecturtroom have axhibited in most of the ehief cities of the Union.

All which premised, es facta at thia day open to everybody's verification, the reader comprebends that, if picturs-writing, as well on the Nile as on the Hosng-bo, wis the fird stage towards phonetic orlhography; nevertheless, sccording to monumental evidenees, the Egyptians bad already been insoribing their thoughts in perfect hieroglypkien, "Eacted soulptured charseters," a thousand years before the Chinese had perfoctedea sytem of dorgraphies, 10 as represented hy their primitive character Kon-wra.

It is from Cbampollion's Oramamare Egyptienne (270) that the reader mast dew clar definitions of Nilotio classifications into the phonetic, fygrative, and mombolical, elementa of calligraphy: and Mr. Birch's definition of Egypt's pristine 16 monosylubic articulationb$a, b, f, g, h, i, k, m, n, p, r \times h, i, t, s h, k h, u,-i s$ the mont ecoeasible to the English reader. (271) For Chinese moalogies and disorepancies, an anid before, there is no satiofactory work but the Sinico-ARgyptiaca.

Through their atudy the reeder will glean how-starting both from the same epringh although ohranologically and geographically distinct, ris., PICTURE-WRITINO- be Egyptian sivulet, gushing forlh asturally in one direetion, formed the miraocriphics; Whence, in due time, through Semitish ohsinels, streamed those mighty rivers that, five Chaldes, have watered Europe, Hindostan, Norkern Asia, Afrigh, Americe, and Aut tralia, with the refreshing rilis of Phacnicia's alpbabet: and bow the Cbinese foonusig, its Watora taking an opposite direction, created the ideoaraphics; whioh, cramped within guttera artificislly if ingeniously conceived, have enahled the Chinsmen to stlain a syatem, it is true, essentially phonetie, and which, originsting in a Mongolian brain, sufices for all the neofesities of Mongol articalations: notwithstanding that $A B C$ are as alien to ita compler construction as our English language is remote from the agglatinations of an Indian, or the "gluoking"" of a Hottenlot. The Chineas never have hed an alphabed. It is impossible, withont orgnnic changes which humen bistory does not espetion, that the Sinioo-Mongol ever can possess that, to us the simpleat, wetbod of chronieling our thoughts

[^194]In consequence of Thich reflections, fortifled by the phytical deductions eisemhera embodied in "Types of Mankind," we have asaigned to Moxacolorigins a distinct column in our theoretical Tableau of human palwographis history.

For the objeots of anthropology, the above explanatory remarks woold be sufficient, were not notions current among those readers, who look to theology for biblical criteria, to metaphysics for archmological -1sh., that the "Chinesa" are recorded in Ecriptare; and ergo, that Mongolian races wert familiar to Jewish writers; 2d., that "Chimese vases" have been found in tombs of the XVIIIth dynarty at Thebes; and ergo, that Egypt and Chins were in peritive communication sbont the time of Moses. (272) So we digrese,

Once apon e time an edege prevailed in literary controveraies-Cave homprem thius libri. Through what imparing causes is to us untrown, bat certain it is, that in proportion an one eacends in Snglish theologicel literature to the Kanniootis, Farburtons, Lowths, Cud--orths, 8illingfleats, Filtons, and other intellectusl giants of that decessed school, so one's respeot for divines and one's reverence for Soripture sugment. They had one book to stady profesaionally, and that book they knew well; because they actually read it

It would appoar that there are oycles of deterioration, as evident in theology as in the weather, to judge by what took place in Chima about A. D. 1868 ; and inqomuch as our inquiries firat concarn the Chinese, it is but fair that they should open proceedings.

The Emperor Houng-Wou, appalled at the degradation of acholerahip consequent upon the tragic events that preceded hicu, one dsy convoked the "Tribuacls of Literature" (equivalent to the Prench Minialdee d'Instraction Publique) (278) and made to them a common sense speech, the pith of which is here in extract:
" The ancients," said he," the ancienta used to write but few booke, but they made them good. . . . Our modern titterati write a great deal, and upon aubjecta that cannot be of the alighteat real utility. . . . The ancients wrote with perspiencity, and their writings were suited to the comprehention of everybody.
. . . In former times their works were read with plessare, and one reads them at this day [a. D. 1868, in Chima!] with the seme.
$\therefore$ You [addressing himeelf to the Censore of the Presa], you, who atand at the hend of litemature, make all your efforta to reatore good sense: you will never sacceed but by imitating the encients. (274)

In the days between Walton and Kendicott, a theological atudent who might have vensured to opine that the Chinese are mentioned in the Bible, would have heen sent incontinently to read the Hebrew text of Isaiah. (275) When this tank was exeouted (and, formerly, divinity stadants corld read a litule Hebrew), the joung man woald have found a place on the lowest form, by command of the Professor of History, for ignorance of the rudiments of his class. Shame would eoon have impelled an ingennous youth, of those lays gone by, to cram bis head with simple facts of which nome of his elders in theology now seem quatwere. (276)

Chinese history - in this question the most valid - proves that, until the jear 102 after Christ, the Chinese never lnev of the exiatance of any countries situate north and west of Persis Detween the yeare 88-108 A. d ., in the reign of $\mathrm{Ho}-\mathrm{Ti}$, a vast Chinese army,

- ander General Kan-Ying, detached by the Commander-in-Chief, Pan-tchao, halted on the shores of the Cegpian Sea; (277) receiving the submission of the Ted.jike (Poraians) and

[^195]of the Ani [rupra, MagUG, p. 471]. A powerfal interash, bowever, incited these last to withhold oorrect informetion on western countries from the Chinese officer; vix.: that, bitherto, they had beld the monopoly of the raw rilk trade, by enraven, betwean China and the West; which silt, dyed and woven into then-priceless raments by the Parthians, found it way occasionally to the grandees of Europe; and, on the otber hend, one of the prastical motives which cerried Rocren eagles to the Tigris, was a hope to discover the ofknown source Thence the erade material of these enquisite fabrics hed reached Perris It wan during this, the most diatant military oxpedition ever andertaken before GengioKhann, that the Chinese heard, for the first time, of the existence, for west from the Ash, of the Romen Empire. Deterred from edrence for ith eonquest by the discoursging report of the Parthians that his commisemiat ought to bo supplied for three years, the Chinese General renounced the enterprise, and retarned to hendquartors at Kholkn.

From the opposite direction, the arms of Rome had not been turned towarda Persis until, about e. c. 68, Pro-Consal Cressas perished by Parthisn arrows on the western frontier of Perria; some 165 years before the Chinese hed penetrated to its sonth-eastern prorinces. Fithin four yearn ather the retrograde merch of the Chinese grmies, Parbia will iovaded by Trajen, A. D. 108 ; and it Fan about that generation, a few gear more or less, that the Romens firat heard, throagh the Persians, of the remote country whence the silk came. (278) In A. D. 166, Antoninas sent the firet Romsin embasey to China; the boapitable reception of which in chrosicled, by contemporary Chinese ennalists, in the reign of their Emperor Houan-Ti.

No nstions, then, situsted to the north-went of Persis, wo far as history or monuments relate, bad ever heard of Chine ; nor had the Chinese kown anything about auch nationa until after the Cbristien era Surtnises to the contrary require, nowedeye, to be jusified by something more aubstantial than the ipee dinit of moderns, however eradite, whow opinions $\boldsymbol{\text { rere }}$ formed before geographical criticism had fixed the boandariea of antiquo intercommunicational possibilities.

With this historical basis, let us cate up the only word in the entire annan of Beriptore, upon which living theologists have erected a fable, that the Chinese are mentioned in the Old Teatament. Even king James's version suffices for this discusaion: - "Behold theso [the Jewish Bahylonian oxiles] shall come from Pbr; and, lo, these from the north and from the west; and these from the land of Sinim." (279) "Our modern hitierati," bays the Fimperor Houdg-Wou, "write a graat deal ; " and austajn that Simlm means the Chinese; be cause, afler stripping away the Hebrew piaral IM, tbere remeins the word SIN; and the native name of Chine is THSIN.

Now, the whole contert of the prophet refers to the retorn of the Jews from bondage in Babylonis. It must, therefore, bo in Meaopotsmian vicinities that the SINe-"inhabitents of SIN ;" or, otherwise, "cities, districts, localities of" SIN-should be sought for, before traverging Central Asia, in such impassable ages, to recall from China antrown Jemish fugitives whe might have escaped thither from Babyionis.

The root giN of Isaiah is not SINI; (280) and, furthermore, that SINian was a Cenaanite. Nor is it eitber of the "wildernesaes of SIN" familiar to the Mossic Ioraciten; because the first, (281) apelt with the letter almeg, lay close to Egypt: and the second(292) was TsiN, near the Dead Sea. Far less could it bave meant the Egyptian city of Pdurinm ; called Sin, (283) or disiectically ThIN, anciently, as Tren now by the Arabs. Wiby trevel to China, when Mesopotamia itself offers to every ege, in an excellent map, (284) at the

[^196]month of the river Lycus, the vestiges of a city termed Eamai by Oreeks, Cana by Romans, and Senn by Arabians: Or, if it be sbsolntely necesaary to oblain SINIM (more sens than one), add to the preaeding Senn the site of Sina, (285) sbout fifty tilee portheastwerd of Mosul; together with the "large mounds" called Sor, on the banks of the Enphrates, opposite Dair.
One, or two, or all of these localities, amply suffice for the extremest points whence the Jewn were to be aummoned from captivity; and, singly or collectively, they are comprebended in the LXX tranalstion; where Sinim is paraphrased by ax yw Heave -n "from a land of the Persiens."

Abide from the obvious adaptation of thase placea, near the Enphrates or the Tigris, to the natural sway of Nebucbednezzar who captured the Jews, no less than of Cyrus and Artaxerxes who relessed them; it is physically impossible, as well as unhistorical, that ancient Jews should have been expatriated to China: a country none of their descendanta ever reached antil centaries after the Cbristian ers. (288) It is equally out of the quention that the Septusgint translatora could have known anything of Chins - a lend beyond the horizon of Alerandrian knowledge previoualy to the time of Trajan, about a century after c.; or some 230 yesrs after the varions Hellenistic-Jews, called the LXX [ubi supra], had completed their labors. Indeed, they pretend to nothing of the kind; for they pell knew that the BINIM wert in the "land of the Pertians; " While Orientalists of the present day lways understand, with the Chaldee paraphrast, "from the southern country" of Asayria, in that passage. (287)

We forbebr from reagitating here the queation elsowhere treated, whether there were really "twelve tribes" of Israel before the times of Sennacherib; nor what became of the ten asid to have remained - Where ! Sotat moderns (288) claim that these Israelites marched round by Behriog's Straits into America; and, after bailding the cities of amaient Mexico and Pera, bave run wild in owr moods-in short, anaccountably become our Indiang. Others have songht for them in Affghnistan; (289) although the portraita of Doat-Mohammed, Shah-Soojah, and thoir fierce cavaliers, are as littia Jepish in lizesmenta as are their speech, and still more their hellicose habita : for the Bible showe that the Jawa of Palestine, except under supernataral cireamstances, were beaten and enslaved by any edjacent tribe that happened ta covet their persons or property. If aver snpposititious offehools of the "ten tribes" wandered as far as Cabol, Bokhara, Balkh, or Sampreand, they were Jows at their migration, and Jews they would heve remsined in type and in religion, if certainly not in langugge. Wolff found his compatriols everyphere. Indeed, we know, personslly and positively, that bad the reverend renegrde not been a true Hebrew, he could never have trayerged Central Asia in 1832-'5. But be narrates that the fatberg of those who kindly welcomed him, on the score of his inextinguishable Judaism, had established themelves in Aigghan provinces very long after the fall of Jerusalem. We also know that Arahs (to the Abrahamidm closely allied) settled in Persia, Khoragsan, Balkh, \&c., over rince the Muslim invasion, one thousand years ago, having rarely interimarried with Tartars, remain phyaiologically distiact to this day. Yet while they have preaerved the name, religion, and appearance of Arabs, they have lost their Arnbinn language. (290) So it is with the Hebrew nation in every clime-indelihility of physical type, coupled with a most pliant faculty for change of tongue. If, then, eractly "ten tribea" of Iarael were awept away into Chaldes, they did but return to tbeir aboriginal centre of creation; and (mixing voint tarily with no type of mankind bat their own) they have naturally disappeared amid the

[^197]Faves of a bomogeneous population. These opinions, long swowed by the authors, are confrmed hy the riews and new fects of Layarl.(291)
Bat we finish with orthodoxy's "Cbinese":
From a pretlously saall feod of the Celesjinl Gates, called Thain, given by Hiso-Thang, about p. c. 909 , to one of his jockeys, iseued a line of prinees whose constant acquisitiveneas bad enabled them, by the year в. c. 249, to incorporate a fith part of the Chinese realm, and to extend over it their patronymic title of Thrin. Out of this stock eprong Thsin-Chi-Hosng-Ti, at once tho Aagustus and the Napoleon pf Chins-founder of the fourth or Thain dynanty, whose name aiguifes "the first absolute sovereigro of the dynasty of Thuin." Aboat e. c. 221, all the principalities of China were consolideted under bia supreme sway; and, as a consequence, the name Thein became, in common parlanot, byonymons with the whole empire. Proud of bis mighty exploits, athough detesting the individum, the Chinese, from and afer bin day, adopting the word Thrin an typical of Chine itself, originated the Hindoo sppellative "Tching," whenoe we inborit our corrapt desigoation "Chins." Under these circumgtances we tender to fatare sustainers of Chinese in Scriptore a many-horred dilemme : -
Either tbe Prophet Isaiab (whose meanding is so naturally explained above) by the word SINIM does not refer to the Chinese, or inasmuoh th the Chinese eftpire was not called Thsin previously to B. c. 221 - whioh is about 450 years after leaiah wrote - the verse 12 of chapter xlin of the book called "Isaish" cannot possibly bave been pended by Isainh, but is the addition of some nameless interpolator: Who mast have lived, too, later than the Aret centary after Christ, when the existence of China first beceme known, under its recent name Thrin, to nations dwelling west of the Euphrates. The writers called tho "Serenty" Enew nothing of thin absard Chinese attribation, as their "Land of the Persiams" atteets.
Were it not for them who thus bad parapbrased SINIM between e. c. 280 and 130, the interpolstion of a mere verse, after the year A. D. 100 , in a prophetic book wherein whole cbapters had been previously interpolated, would excito small surprise among bibical exogetiets, "If, for example," writes the great Hebraist of the "Bibliotheque Imperiale," (292) "in a prophetio book, bearing the name of Yasiah, they apeak to you of the return from Babylonish erile ; if they go so far an even to name Cyrus, who is posterior to Isaiab by aboat two centuries, be assured that it is not Isajah who apaaks." And if thaterplanation does not satisty theological exigencies, then let some people bear in mind that the word SINTM occars in the forty-ninth chapter of Isaiah; and thas, according to the highest biblical critics of Germany, whose month-piece is the eminent Professor of Theology at Basle,(293) "the whole of the seeond part of the coliection of oracles under Ieriah's name (yl. -hivi.) is sparions." But they say Cbineee vases have heen found in tombs of the Mosaic age in Egypt; and, ergo, that China was krown some 3300 years ago to the anclent Egptiana, The archmological intereat of this alleged fact has been revived in the preaent year by two new phases:-
Firat. The presence at New York, among a variety of Egyptian antiquities, lesa suthentic, of -
"No. 626.-A Chinese vase, with 17 othere of different forme All found in tombe Some from Thebes; others from Balharah sid Ghizeh.
"Thesa vases are curious, inasmucb an they prove the early commanication hetween Egypt and Chins. Vido Rosoleni [nic for Rosellini]; Sir Gardner Filkinson's Mannere and Customs; Bir John Daris's Sketches of China, p. 72, and Ferue Archceologique, by Mr. E. Prises.
" No. 627.-A Chinese padlook, found in the tombe at Sakbarah." (294)
This last büar is a confrmation of ancient intercoares between Pheraonic Egypt and
(201) Op. Cif. ; pp. 573, 883-981.
(202) HTVE: Foberion ; p. 420.




Cbina, of Thich orthodox nutigation may well be proud, especially now that two additional vages have been discorered aince Joseph RoDomi, in his sly way, indicated the axtrame rifity of such entiques at Cairó, 1843.

## "No. 254.-Padlook; Chinese, said to be found èt Sakhers.

*) No. 255.-Thirtean Chinese botlles, of the ugnal form, and with the idscription in the Chinese charsctert; and three botles of different ahspo, found in Egyptian tombs, both in Upper Egypt and Sakhara. Tho larger portion of thin collection was found in Sakhara, Bottlea exactly similar may be purchered in the perfume bazanr of Cairo ; and in 1842 the Jannisary of the Pramaign Mienion parobased ten of them.' (295)

Second. The deterration of two similar Chinese vases by Layard, one from the mound of Arban, and another from its risinity. These are the more precions as they show the orthodox and primeral overlend route of Egypto-Chinese intercoures by way of Assyria, in oges preceding the discovery of the mongoons, about A. d. 4i), by the Greek pilot Hippalus. (296)
" In a treach on the sonth side of the ruin, was found a small green and white bottle, inscribed with Chinese characters. A similar relic was brought to me from a barrow in the neighboarbood. Such bottles have been discovered in Egyptian tombs, nud considerabie doubt [not the remotent] exists as to their antiquity, and as to the date and manner of their importation into Egypt. (Note. Wilkinson, in his 'Ancient Egyptisns,' vol. iii. p. 107, gives a drawing of a bottle precisely similar to that deacribed in the text, and mentiona one which, according to Roeellini, had been discovered in a previously unopened tomb, believed to be of the eighteenth dyansty. But there appesre to be considerable doubt on the subject.) The beat opinion now is, that they are comparatively modern, and that they mere brought by the Araba, in the eighth or ninth centary, from the kingioms of the far Rash, with which they had at that period extensive commercial intercourse. Botles precisely similar are still offered for sale at Cairo, and are used to hold the kobl or powder for sevining the eyes of tho ladios." (297)

Since the conquest of Algeris, Parisien paturalists heve been constantly employed by the Freach Government to collect every apecimen of natural history that regiou affords. One of these enthasiastic asyans, lamenting that his predecessors bad exhausted the resources of the country, was suppliod by the Zousves with sundry live exsmples of a wild rat, the species of which was antirely unknown at the Janding dea Plantes. The soldiers called it rat d tromps. On arrival of these novelties at the Nuseum (298) it was perceived that each rat wis adorned by a flexible and hairy proboscis. In time these appendages bappening to drop off, some assistant ascertained that the malicious Zounves had inserted an empatated tail of one apocies of rat into the nasal cartilage of another! It behooves erehsologiste, therefore, to riew nny buch marrels as Sivico-Nilotio "padlocks" with more than caution; for, en De Longpérier, the Conservator of the Louvre Museum, wites to De Bavicy, Director of the Masbe d'Artillerie, "above all thinge, now-a-dayg, gardors nous der rate a trompe"

Chinese vases, of the geons mentioned, beving been familiar things to the witer ever Eince bis hoyhood's visit to Cairo in 1823, no legs then daring his offinal residence thers from 1831 to 1841, it mas against his wishes (while siding his revered friend Morton with - fow hieroglyphical indioes in 1842-8) that the following passage ever saw the light without some qualifying reaerration: "That the Chinese had commercial intercourse with the Egyptians in very early times, is beyond question; for vessels of Chinese porcelain, with ingcriptions in that laggage, have been repeatedly found in the Theban calacombs. (Wilkinson's Ancient Egyptian, vol. iti, p. 108.)' (290) Bat Dr. Morton relied upon the eecuracy of Wilkinaon, and the latter upon that of Robellini, (800) as to the mattera of fact; at the

[^198]asme time that, in the United Staten, there was no sinologist to whom we conld refer the lnocriptions themseives. Nor, indeed, was it antil the writer studied at Paris, (301) in the winter of $1845-0$, that appeal had ever been mede trom the teanned opinion of Deris. (802)

In tho letter cited at foot, the Chinese scholar defends bis viow egalnit the "Querterly," (Febraary, 1885); which maintained thet these vases coold not have been foond in ancient Egyptian fombs - that the surposition of their being sofound depended apon hearsay; neither Lord Prudhoe, Mr. Wilkingon, nor Mrs. Bowen (quondam Mrs. Col. Laght), haring seen those apecimens they hed purchased st Coplas and Thebes, axtracted from any abeient tomb. To repel whick attack, Devis exhibits a letter from Rosellini to the effect, that he saw one withdrawn from an ancient tomb during the Tusean exeavalions at Thebes, in 1828-9. And thus, the only archeologicel process of determining the vastly importent fart of Pharsonic intercourse with Chins, so far as depended upon these vases, atood over unti, at the writer's suggestion, and in bis presedce, forr apecimons were submitted by his relned colleagre, Prisse, at the latlar's apartments, to their matual friend, the bigh sinologat, Pantbier. It is also desirahle to note, that the question of the authenticity of these rass arose mongst ns at Paris, in consequedce of their forming a prominent featore in the "Notice" which M. Prisse was at that time preparing of the identioal "Collection of M. H. Abhott;" (308) - a collection that, rejected by Europe, has "fats profagus" sinee been transferred, with the sugmentation of a Chinese padlock, in 1852, from Eggpt to New Iort. "Iisdem ic armis fui;" although M. Prisee's own doabts first prompted him to consalt the opinion of ao old an Egyptian follow-sojourser as the writer.
M. Prisse had already projected the subetance of the following in manuscript:
"It is pretended that these little fiasks have been found in Egyptipn tombs: bat es the fact is contegtable, I think it useful to diacuss it. Whenever an error in met with in your path, gays Bacon, fail not to eradicate jt, as a traveller cuts down a bramble in passing. I ought to strain myself the more to destroy this error that I have aided in its propagation, by coopperating in the 'Collection of Dr. Abboth,' and by giving to N. L'Hôte two of thoes little fasks for the Royal Mugeum of the Louvre, where they figore under the title of - Vases Chinois trouvés dans les tombesux de l'Egypte par MM. Champollion et L'H6ta' Champollion had bought one of these little rases at Thebee (Honumenta de E Egypue et da in Nubie, Pl. 424, No. 28.) N. L'Hote received from me the two others; and node of them, to my knowledge, had been found in an Egyptinn tomb. Rosellini, the only one who pre tends to have found a similar one bimeelf (dfonumenti Civili, vol. iii. p. 897), in a Lomb of which he makes the epoch ascend to the XVIIIth dynaty, is not an anthor very worthy of credit. Sir G. Wilkinson (Wan. and Cusf., iii. p. 108) believea that these litule flanti which beid perfumes, had been brought into Eggpt by the commerce of India, with which conntry the ancient Egyptiacs appear to have been in relation from s very remote epooh: but he does not discuss the suthenticity of these rases. Upon the testimony of these twe suthors, and upon that of the Arabs, I had believed for a long time that these flasks issued from the excapations, and I bought many that I gave away. Soon afler, a treveller having asaured me that he had seen similar vases at some ports of the Red Ses, (804) I began to conceive doubta. Pressed by questions, the Arabs avowed to me that the greater number of these rases ceme from Qous, from Qeft and from Qobseyr, successive entrepots of Indian commerce. This avowal seemed to me peremptory."

It wachere that M. Pauthier's call with the writer led opportanely to the sequel.
"Nepertheleas, the atahility of the arts in China might have eansed ropetitions of the fortos of these vases from early ceaturies; and the nature of the characters enployed in the ingcription could alone remove all objection. I oonsulted at Paris two learned anologists, MM. 8tanislas Julien and Psatbier, who nasured met that the characters thaso, painted apon these pasee, dated solely from the second century of our ern M. Panthier hno been pleased to indite a note upon this aubject, which I basten to publish in order to terminate the discoseion."

From Parthier's "Note upon the Cbinese vases found in Egypt," we heve condensed the

[^199]sabjoined. In his work, "The Chinese," under the article "Porcelain," Gov. J. F. Davis, of Hong-kong, refere to the exceptions taken by the Quarterly Review, citing Wilkinson and Rosellini for the fect of the diseovery of sacb vases in Egyptian catacombs.
" M. Letronne, when giving acconnt, in the Journal des Savana, (Nov. 1844, p. 665, of the worl of Mr. Wilkingon, thus expressen himeelf: ' The anthor believes in the Chinese origin of certain porcelain rases, found in the tombs at Thebes, of which one is of the XVIIIth dynasty. He gives the figares of four of these vases, with Chinese inscriptions, Which Nr. Davis fisters himself with having read. We knam that other ginologues doubt this origin. The fact deserves to be cleared up by a contradictory discugsion. . . . There is notbing in it impossible, but it seems little verinimilar. . . . Yet, if these inscriptions are really Chinese, the fact must be secepted. All lies in that.'"
It is merely justice to Morton's memory here to remark that bis "Crania Aggptiaes" had appeared in the spring of 1844, at Pbiladelphia Nor is his discrimination amenable, on questions alien to his special studies, to the charge of bastily adopting, in good faith, thet which Parisian science hod not began to reatilete for six months later.
After stating that no sinologist douhted that these rases "are reslly and purely Chinese," M. Pauthier bolds that all the question does "not lie in that;" and then eliminstes the facts as follows:-

1. The inscriptions upon these vases are in the cartive Cbinese character called thsao.
2. This carsive character was not invented in China ontil the secood centary after Cbrist. Hence "it is materially impossible that veses, bebring inscriptions in that writing, could have been manufactured and transported to Egypt in the time of the XVIIIth dynasty; that is to say, aboat 1800 gesra before the said eposh!"

Goy. Davis, "well reraed in the study of the volgar Chinese (language), seems, lize some other ainologues, to have completely neglected the study of Chinese arehaology." Nevertheless, on the vase puhlished hy him (No. 4 of Wilkinton, and of M. Prisee), one reads easily :-
3. "Ning youe soung tchoung tchao: the brillinat moon is resplendent through the pines.'"

1. This is a line from a "strophe composed by Wang-gan-chi, who lived under the Soung dynnsty, in 1068 of our ers ; and corrected in the last syllable by Son-toung-po, -ho lourished inty years later."
2. The bighest antiquity of the cursive character on these pases being 200 years after Christ, and the verae writen apon them being from an author who lived early in the tweffh century of the same era - it followa that the vases in queation have been trasported into Egypt since the year 1100 A. D. M. Pauthier gives reasons, from Chinese history, why some of them may have been broaght back from Ching hy Arabian embassies in the fifeenth century after Christ; to which age probably belong the two epecimens recently exhumed from the Khabour mounds by Dr. Layard.
Bui, as the writer, and Mr. Bonomi, and M. Prisse, and othera, have known for these twenty years, buch vases abound in Egypt; especially after the annual return of the Hadj; or Mecca pilgrima, to Qosaeyr and Cairo. The Mosaic Theban tombs are sapplied through Uhe former ; the ante-Abrahamic catscombs of Memphite Saccarn through the latter merconcile chapnels; while the drug bazoars of Cairo and of Qenneh have always a atock on hand - price factuating, according to the demands of antiquaries, between two and a half and three and a haif centa apiece, retail. Arab curiosity-mongers are thus enabled to furnish imbecilities travelling along the Nile with Sinico-Egyptisn veses even of ante-diluvian entiquity, on application. In the meatwhile, archmologists are awbre of the sort of proofs of "early commanication between Egypt and Chins" the New York collection embraces.

To close the digression. The reader will duly take note that the New York catalogue, above cited, refers to the "Revue Archceologique, by Mr. E. Prisse." The proprietor of the invalusble "Revue Archeologique" is M. Leleux; bot while the author of the "catalogue" aforesaid mentions both the work and the asvant whose inquiries, eaven yeara ago, demonstrated a "Chinese vnse with 17 others" to be, as antiquities, epurious; readers of that document need not woader at the appropriate association, in the bame anigque cabinet, of similia similitus.

All obstacles to the appreciation of whet we mean by "Mongolisn Origin," in the theory of buman graphical development, being now removed, but a few paragrsphe are nccearary to elucidate that section of the General Table devoted to
ad. AMERICAN ORIGIN.-To another department of "Types of Mankind" belonge the ergumentative exhibition of those dats, whereby the aboriginal groaps of American hamanity are disconnected from other centres of creation [rupra, Chap. IX]. The parposes of our tsblenu are seryed by reference to Morton for the cramiological, to Gallatin for the philological, and to Squier for the arehacological beses of discuseion.

It is uncecessary to reiterate the emphatic disclaimera of Dr. Morton, concerning any recognition hy bimelf of such notions as an exotic origin for Amerian Indians. Dr. Patterson's Memoir [supra, pp. xivi-xlix] and our various Chapters [VII. p. 232; IX. p. 275 ; X. pp. 805-807, 824-326] have removed from Morton's cherished memory any forther attributions to him of these philosophical heresies. (805)

The total segregation of American shorigines from other tgpes of man throughout the rest of our globe, deduced in the present volume from the former's osteologieal peculiaritiea, animal propensitiea, geographical constitution, and what of history has been made for Indian nations by post-Columbian foreigners, rasults equally from the matared philology of Galletin.
"I beg leave once more to repeat that, unless we suppose that Fhich we have no right to do, a second miraculons interposition of Providence in America, the prodigions onmber of American langarges, totslify dissimilar in their vocahularies, demonstrates not obly that the first peopling of America took place at the aariiest date which we are permitued to assume, but also that the great mass of existing Indian nstions are the descendents of the first [imaginary] emigrants; since we mast otherwise guppose that America was peopled by one hundred different tribea, speaking languagea totally disaimilar in their natare."(306)

Dr. Young it was who first made languages the subject of mathematical celculation: -
"It appears, therefore, that nothing could be inferred with respect to the relation of two languages, from the coincidence of the sense of any given word in both of them; and that the odds would be three to one againat the agreement of two words; bat if three worda appear to be identical, it would then be more than ten to one that they muat be derived in both casee from some parent language, or introdnced in some other maner; six worde would give more than seventeen bundred chances to one, and eight near one handred thoosond; 80 that, in these ceses, the evidence would be little abort of absolute eertainty." (307)

Comparative philology now recognizes the gramatical atructure of tongues as the nole eriterion, which point we have explained in ita proper place; bat those whose miods bare been led astray by the plansible application of aritheretical formulw to the chances of intercourse between ante-Columbian American mations and the aborigines of Europe, Akia, Africa or Anstralasiar-hased upon vocabolaries said to be coincident in about one bundred and eighty words - would do well to ponder upon the fat of the greatest artheologist of our generation, Letronne: -
"Profound mathematicians bave essayed, principally since Condorset, to apply the calculus of probabilities to questions of moral order, and above all to the divers degrees of certitude in historical facts. They have flattered themselves apon ability to calculate hov much might be bet againgt one, that a given event had or had not happened. Cofortunately, they have not seen that such a probability can yield bat a reault cbimerical sad illusory. In no case could it replace that conviction, intimate, absolute, admitting neither more or less, which the examination of the diversified circumstances eccompanying a real event produces. To thase who may yet preserve anty confidenee in this abusive employment of mathematical analysis, I would venture the counsel that they abould undertake to find out, through calculation, what new chance of probability is added by the fortuitous diseovery of all these contemporaneous testimonies [such as Squier has disinterred from the primeval mounds of the West] which seem to emerge from the earth expresely to con-

[^200]firm history. They will feel, I think, the aselessness, the ranity of their efforts; because that which resulte naturally from this unexpected accord, is not one of those definite probabilities eatimable in numbers and in ciphers; it ia a complese certitude which, with irresistible force, takes possession of every mind that is bonest and oxempt from preju. dice.' (308)

Not a a olitary point of identity which cannot, at a glance, be explained by the rule that similar causes operating upon similar principles produce everywhere the same effectsexists between the scalptured and architectural monuments of the Old World and those of the New, as known in 1853 to arcbmologista: not a tongue, habit, custom, mythe or ides found among the aborigines of America by Columbus, can be traced back to any antericu comannication with other inhabitants of our plaset. The real differences, moreover, in the geological constituente, the fauna, the flors, and the entire range of physical nature Whence American man drew his artistio models, preponderate infinitely over those parlisl resemblances which, when not caused by the circumscribed necessities of all buman things, are simply accidental-if acaidents can occur in the organic lawa of creative power.

Take ap the works of Squier. (309) What relie of art, what natnral object, what tnmau or non-hnman thing, unearthed from those forest-clad mounde, is not solely and exclugively American: Run your finger along the map from the sub-polar limit of the Eaquimana down to the Terra del Fuego, and where, in pnblished desigas, of respectsble authenticity, can yon point out a fact, in pative buman economy, anterior to the fifteenth century after Cbrist, that compela your reason to travel off the Amerioan continent for ite nrigin? We cannot find, at this day, pretensions to any but ode. There is onthing, earnoatly insista Mr. Sqnjer, (810) even in the most curious of all mythologicsl ooincidences yet discovered between the Oll and New Hemiepheres, viz: the "serpent worship," that necessarily drives an erchmologist away from this continent for explanation: the very fagorative expression of this American mythe is, "ab ovo," a rattlesiake! Mr. Squier's robsequent pursuity in Eorope (811) have opened, he tells us personally, hopeful proepects of filling np enme gepa between tribes of Indiass atill extant and the AxLeq and Tolteq acribes of ancient Mexico. He is now in Central America exploring untrodden ground; and mey he succeed in his indefatigahle restorstions.

The possibility of Malsyan, Polynesian, Japanese, of other ahipwreok on the American Pacific cosats, having been established by such accidant within onr geaeration, is not difputed; but there are three common-place reasons that militate against the probability that contingencies of this aporadic nature had any the elighteat infnence in stooking this continent with its groups of Indisn shorigines: 1st. No memento of any aimilar event exists in tbe speech, semi-civilization, art, nr mythe, of the Auerionen world to induce such hypethesis; which originates simply in ovangelical craviaga - Europesp fathers "of that thoughe." Nor, were it proven, could such petty accident establish interoourse; because these ancient castaways never returned home again; and (still stranger to relate) there are no "Indians" in the countries whence originally they aeiled. 2d. In the ratio that entiquity is claimed for sucb a supposititions chance, so, owing to proporlionste diminution of haman navigatory ability, the physical posaibilities of its occurrence become " fine by dogrees, and beautifully lebs." 8d. As Morton long ago deolared, "If the Egyptians, Hindoos, or Ganle hate ever, by accident or desiga, planted colonies in Amerios, these muak have been, sooner or later, diaperaed and lost in the waves of a vest indigenons populaLion;" so that, Indians existing before the emrival of such metaphorical colonists, the old dificulty remains.

Of Iriah or Weish "Indians" it will be time enough to speak, when their "cnprolitea" -we dare dot any their historical vestiges - are found, not merely on this continent, bnt weat of the European "Ulima Thule" of eatahlished Celto-maniec migrations.

[^201]Far be it from us to disparage the Icelandic researches of the "Royal Society of Northern Antiquaries at Copenhegen;" nor their "Scriptores Septentrionsles Beram Ante-Columbiamum."(812) Most landable are their national resuacitations of "Sages" recounting the voyages of Eric-rufue, or of Thorfinn Kerlsefige; particularly those aflarding Astricas proofs of that genealogy of Thorvaldsen, tbe great sculptor, back to the eleventh century after Cbrigt, In our humble opinion, however, Thor, with his bammer, is much older; brit, unable to geize the exact threads of connection hetween the "Fornmanne Sögry" of Icelsed and the autocthones of the American continent, we ara fain to lesve their uaravelling to the incredulous author of the "Monomentsl Evidences of the Discovery of America by the Northmen critically exnmined," (818)

We have said that to the evidences of non-intercourge between Ancient America and the other hemispbere there was but one oxception. Here it is:-

In the printed "Inquiries respecting the Hislory, present Condition and fature Prospects of the Indien Tribes of the United Statee," circulated gratuitously by the Department of the Interior, (314) contributions are solicited from "persous willing to commanicate the resulta of their reading or reflection." Applanding most beartily any Government action in the réscre of some mementces of nationel tribes whose spsn of life is but sbort, we deem it the part of good citizenehip to cooperate. Our respectful mite is tendered grstis.
"Apperdix (Inquiries, p. 560):-806. Is the Insoription found on opening the Grave Creek Mound, in Weatarn Virginia, in 1889, alphabetic or hieroglyphic ""

Neither the one nor the other.
Originally a forgery - its disappearance from the "Museum" at Grave Creak is socounted for in the diacovery of an impoature; its sempiterabl reappearance, in an anique eeries of works, is due to individas idionyneracy.

An old acquaintance of ours is this inscription; which was first atarted, wbout A. $\mathbf{~ D . ~ I R 3 8 , ~}$ by some "Grave Creak Flat." (315) Flat at its origin, the Ohio pebble bas become flatter through acholastic abrasions; and so terribly forn awey, that the Dnited Statea Department, at bo trivisl expente, is doomed to edvertise perpetually for ite recovery throngh official inquiries.

Alremy, hefore our bojourn at Paris, IB46-'B, the vast palmographic erudition of this inscription's composer bad been exemplified by the reduction of its twenty-two rudimental apices, into four Greet, four Etruscan, five Runic, six Gallic, seven Erse, ten Pbocnician, fourteen British, and sixteen Celtiberio letters; being no less than sirty-six chances drama from twenty-two, that an Obio pebhle had made, in primepal times, an outward rogage to Europe and the Levant; and, after receiving the engraved contribations of eight anlique nations, had recrosed the Atlsatio to its pristine geological babitat.

Uohappily, we were too late. Our venerable friend, M. Jomard (haring aecepted a copy of this inscription, for the "Bibliotheque Roynle," in scientitio good faith), had already printed the learned and skifful sealogies deducible between the scratcises on this pebble and the Numidian alphabet. Dther scholars, native and foreign, were misled; and tbere really seemed no prospect that the bewilderments produced by this contemptible petroglyph of a "Grave Creek Flat" ahould not become universal, when Squier's mudden mallet flattened it out forever, in 1848. (818) The pebhle vanished from the Grave Creek Monnd; and While, at this day, there is bat one man who yet slumbere in a fool's parsdise concerning it, we may echo its annihilator's felicitore dictum - " sic transit gloris moundi."

We have seen how the fabled communications hetween the ancient denizens of the Nile and those of the Hobag-ho hbve reposed upon Binico-Agyptian "vases" - to which han recently been added s "padlock"; and we now know the archmological worthiness of the only

[^202]proof get atanding to sastain idiocratical theories of ante-Columbian intercourge between the American continent and any other centres of haman creation on our terrequeong planet. Until aomething very different in oulihre be discovered by future explorers, the section of our Generel Table devoted to AMERICAN ORIGINS mill gurvive, es the plain reanl of paleographic acience in Anno Domini 1858.
G. B. 0 .

## ESSAY III.

## MANEIND'S CERONOLOGY-INTRODUCTORY.

Oor brief inquiries into s subject which possesses such manifold ramifications maty be conyeaiently heralded by na extract or tro from the works of some learned contempo-raries:-
"We must therefore acquiesce in the conclnsion, that the Febrew oopies represent the original and suthentic tert of the book of Genesis. . . . On historical grounde, very formidable objections prosent themeelves to the Hebrew Chronology. . . . The difficulties are still greater when the Monaid chronology is applied ns a meseure to profane history. . . . It is not, howerer, in these difficulties alone that we find reason for douhting whether the geaealogies of the book of Genesis, taken eitber according to the Hehrew or the Septuagint, furnish us with a real chronology and history. . . . No evidence, therefore, remains, by which we can $8 x$ the interval which elapeed between the origin of the beman race and the commencement of the special history of each nation. . . The consequence of the method which has been commonly adopled, of making the Jewish chronology the bed of Procruatea, to which every other muat conform in length, has been, that credence has been refused to histories, sucb es that of Egypt, resting upon noquestionable documents; and wo bave voluntarily deprived oarselvea of at least a thousand yeara, which had been redeemed for us from the dariness of ante-historical times." (317)
"From this disorepancy we may infer, becuroiy as it seems to me, that the Biblical -riters bad no revelation on the subject of chronology, bat computed the euccession of times from wuoh date as wers accessible to them. The durntion of time, unless in so far as the knowledge of it was requisite for anderstanding the Difing Dispensation, what not matter ontwhich aupernatural light was afforded; nor was this more likely than that the facts convected with physical science ehonld have been revealed. .. . The result of this part of our inquiry is, in the first place, that a much longer space of time must bave elapeed than that allowed by modem chronologers between the age of Abrabam and the Exode; (318) and, secondly, that generations have certsinly been omitted in the enrly genealogies. . . . By some it will be objected to the conclusions at which I have arrived, that there exista, according to my hypothesig, no chronology, properly no termed, of the earlieat ages, and that no menns are to be found for ascertaining the real age of the world. This I amprepared to admic, and I obserpe that the ancient Hebrewf reem to bave been of the same opinion, since the Scriptural writers have always aroided the attempt to compute the period in question. They go back, as we have aeen in the instance of 8 . Panl's computation, to the ege of Abraham, at the same time asing expressions plainly denoting that they make no pretension to accurate knowledge, and could only approximate to the crue dates of events; but they have in no instance, as far as I remember; attempted to carry the computation of time further back, nor has any one writer alladed to the age of the world. . . . Bayond that event (the arrival of Abraham in Paleatine) we can never know how many centurica nor evem how many chiliade of years may have elspsed since the frat man of clay reeeired the image of God and the brenth of life."(319)

[^203]"The Roman researches of Niebuhr bad proved to me the ungertinty of the chronological uystem of the Greeks, beyond the Olympiads; and that even Ensebias's chronicle, an preserved in the Armenisn transiation, furnishes merely isolated, although important, dete for the Asayrian sad Babylonian chronology beyond the era of Nabonassar. Agzin, as regards the Jewish etmpotation of time, the stady of Scriptare had long convinced me, that there is in the Old Testament no connected ehronology, prior to Solomon. All that now passes for a syatem of ancient chronology beyond that fixed point, is the melancholy legacy of the 17 th and $18 t$ centurics; a compound of intentional deceit and atter misconception of the principles of historical research. ${ }^{1 \prime}$ (320)

With Germanic virility of diction, Bunsen further ingists-
"This fact must be explained. To deny it, efter investigation onoe incited and began, mould imply, on the part of anch inveatigator, small knowledge and still amaller honesty." (321)
"But (il s'en faut) much is wanting, we are convinced of it, that religiong trath should be thus tied to questions of litenture or of chronology. Chriatian fath no more repoeses upon the chronology of Genesia, than upon its physics and its astronomy; and betides, to reatrain ourselves to the subject that occupies us, the career of examination has been largeiy opened to us by men who cerninly were far from bolding Christian orthodoxy cheap." ( $a_{2} 2$ )

Nor does our learned authority confine himself to mere asaertion; becsuse, within a year after the puhlication of the above passage, he illuatrates the alight eatimation in which he holds Genenacal chronology in the following emphatic manner: -
"It must be known that I wish to make public a monument of which the interpretation, if this bo admitted, will push back the beunds of historical certitude beyond overything that can have been imagined $u p$ to this day. . . . Because, one must not dissimulate, Manetho placen King Mrncuares in the IVth dyansty; and the most moderate calculation, if one follows the ciphots of Manetho, makes the anthor of the third pyramid remonat beyond the fortiech century before our ore. A monument of aix thousind yeara! And what a monument! . . We ohtain the sum of 68 yeare, which, joined to the 4073 yeare, result of the preceding calculations, would gire, to the end of the reign of Mycerinus, the date of 4186 before J. C." (828)
That is, our author meane, the third Pyramid was built in Egypt juet 163 years before the world's Creation, and exactly 1800 years before the Flood; according to the "Petsrian" ohronology of that Catholio Chureb in which M. Lencrmant is a most devort communicant.
We have thougbt it expedient to preface our chronological inquiries with the above four citations. Each of them will proteot ug, like an EXfir raised on the stalwart arm of Jove or of Pallas. We have selected, out of the multitude before us, the higheat representatives of distinct schools; who, nevertheless, perfectly agree in rejecting Beripturel chronology : -

1nt. The Rev. Dr. John Kenrick -author of many standard clasaical worts, add of "Egypt under the Pharaohs," 1860, -one of the most brilliant Proteatant scholars of England.
2d. Jnmes Cowles Prichard, M. D., F. F. B. - the nobleat chempion of the "Drity of the human species."
8d. Chey. Christian C. J. Bunsen - the successor of Niebuhr as Prussian Ambeseador at the court of Rome, agd of Wilhelm von Humboldt at that of St. James; the pupil of Schelling, and the friend of Lepsius. (324)
4th. Prof. Cbarles Lenormant - the companion and disciple of Chmmpolion-lo-Jeune; alike famed for Hellenic erudition, and for sovere Catholicity; who now fills the chair of Egyplology, vecated by Letronne's demiae, at the College de France. (325)
It will tareover be remarked that our quotations aet up no claim, as yet, for the respect-

[^204]ability of the chronological systems of other nations at the expense of Judaians. On the contrary, they bear with undivided force apon Hebrew computalicts, viewed for themselves slonè.

Not less truthfully does the language of a profound thinker - expression of a fifth, and far more libersl philosophy, - qet farth the effeteness of Jewish chronology. Luke Burke's writingg are unmistakenble: his "Critieal Analysis of the Hehrew Chronology" (326) is one of the most masterly productions our literature can boast. Curtailment is ibjustice to its author: to the reader garbled extracts would be nnsatiafactory; and the sincere investigetor know where to peruse the whole. We contont our present requirements with one specimen:-
"Such, then, is the character and importance of the most brilliant and important of Primate Usher's improvements in chronology!' [as Dr. Hales terms the fahulous notion that Abraham was not the eldest son of Terah!] It consists, first, of an argument that turns out to he groundless, in epery one of its elements; and, which, if well founded, would prove the Old Testament to he one of the most absurdly written books in existence; and secondly, of an esamption which, spart from this argument, is wholly gratuitous ath improbnble; and which also, if odmitted, would bear equally hard egainst the character of the very writing for the support of which it was invented. And it is by such arguments as these that grave and learaed divines seek to ascertain the realities of ancient history, and endeavor to place chrobology upon a rational and ante foundation! And it is to such as these that men of science are required to how, at the risk of being deemed sceptical, dangerons, profane, \&c., \&o. For it must not be supposed that the present is an isolnted or exceptional inatnace of theological argument On the contrary, it is a rule. Yolumes apon volumes have been writtea in precisely the aame spirit-volumes numerons enough, and ponderous enough, to fill vast libraries. Until a comparatively late era, all historical criticism, on which Soriptaral evidences conld in any menner be brought to bear, was carried on in this spirit. Nothing else was thought of; nothing appromehing to genoine independence would have been tolerated. And thas the haman world rolled round, centary after century; the brave trampled npan by alaves; the wise compelled to be silent in the presence of fools; the learned alternately serf's and tyrants, delnded and deluding, cheating themselves, and cheating others with sophistrien which, npon any other enbject, would diggrace even the mimic contests of schoolboys! For ourselves, we should feel a humilistion to contend with each sophistries seriously, and in detail, were we not firmly oonvinced that to do so is not merely the most legitimste, but also the only mode by which truth can be rendered permaneatly triamphant. Wit and sarcasm may obtain a temporary success, they may awaken minds otherwise prepered for froedom, bat they ate nften unjugt, usually unbenevalent, and consequently, in the majority of cases, they meraly awaken antagnisim, and cabse men to cling with iacreased fondnese to their opiaions. Nothing bnt minute, searching, inexorshle argument will ever obtain a speedy, or a permanent triumph over deep-sested prejudices." (327)
"Bnt, forlnuately," winda np another and a airth formidable adversary to Hebrew com-putation-no less an archélngae than the great Parisian architect, Leaueur - "fortunately, questions of ciphers have yothing in common with religion. What imports it to us, to as Christians, wbn date so to any from yesterday, that man ahould hava been thrown upon our globe at an epooh more or lese remote; that the worid should heve been created in six days, or that its birth should have consumed myriads of centuries: Can God, through it, become less grand, his wark lese admirable? We are, since the last eighteen buadred years, dapes of the besotted ranity of the Jews. It is time that this myatificstion should cesse." (828)

Italian scholarship speaks for itself:-(329)
"The Bible is, certainly, as the most to be venerated, so the most anthoritative fount if history; but, in so many varieties of cbronologioal sygteme, whith are all palmed off by their authore as besed upon indications of time taken from the Bible; in the very notable diference of theae indications hetween the Hebrew and the Samaritan text, and the Greek version, and between the books of the Old and of the New Teatament; finally, in the indecision, in which the Cetrici has always left such controversy, that, I do not see any certain standard, by which the darntion of the Egrptian nation las to be levelled, unless this

[^205]beoome determined through an soourate arsmination of all its historio fountains. . . . Lanving therefore aside enyoosver aystem of biblical chronology; becanas, of the quantity bitherto brought into the field by the erudite none are cortain, nor exompt from difficulties the most grave; and, beceuge the Ceurch, to whose supreme magistracy belongs the decition of controveraies eppertaining to dogtme and to morals, has never intermeddled in pronouncing sentence upon any ane of the systoms aforesaid, of Which bat ane can be trae, while all peradventure mey be erroneans. . . . I ahnll finish by repeating in this place thet which aiready I declared elsewbere, riz.: it is not my intention to combst any syatems regardiag biblical chronology; but lnasmach as, of these, not one is propounded as truo under the Cuorcers infallible athority; I have pleoed all theso (ayetems) aside in the present ezamining, in onder to treat Bgyption ohronology throagh the sole date of history and of Egyptimn monuments."

Finally, we quote Lepsius :- (880)
"The Jewish chronology differs in a mast remarksble manner from every other; and even in times as modera as thobe of the Persian kings the difference anounts to no leas than 160 gears, from known dates. Its several sources present but litile difference among themselves. They ocount wecording to years of the coord; ; eslculation which, as aleo Idelen (Hand. d. Chron. I. pp. 569, 678, 580), considers most probsble, wat invented, together with the whale present chronology of the Jews, by the Rabbi Hillesl Hapassy, in the year 344 after Christ: and thanceforward gradually adopted. They fix the croation of the world 3671 B. c.; and all agree, evan Josephus, in the usad calculstion of the Hebrem text. They fix the deluge at 1656 , the birth of Abrahem st 1948, Inenc's 2048, Jacob's 2108, Joseph's 2199, Jacob's arrival in Egypt 2238, Joneph's death 2309, years after Adam." . . . "The question is now, how must wo explain this obvious dislocation of facts as compared with the true datea. Idrcise has demonstrated that the introduction of the era of the arortd and consegueatly of the whole system of chronology, must be ascribed to the author of the Moledr, (or 'New Moons,') and in general of the whole later Jewish calendar, the Rebbi Hiches who flourished in the first balf of the IVth centary."

Reserring further extracta until we take up the Hebrec chronology, it here suffeea to notice that Mosss, who lived ahout the fourteenth century e. o., is not amensble for numerical additions made, to books that go by bis venersble name, sbout 1800 years after bis death, by a modern Rabbi.

The unanimity of acience in the rejection of any ayatem of biblical compatation might be exemplified by meny bundred citations: either, of savans who, eatablishing grander syatems more in eccordance with the preaent state of knowledge, pats over the rablinieal ciphers in contemptuous eilence; or, of divines who, like the Rev. Dr. Hitchock (President of Amherat College, and Profestor of Nataral Theology and Geology) strive, vainly we opine, to reconcile the crade cosmology of the infantine Hebrew mind with the terregtrial discoveries of matured intellects like Cavier, De le Beche, Murchison, Oqen, Lyell, or Agassiz. Novertheless, Calvinism in the pages of Hitcheock begins to affect a more amiable diaguise than Fas worn by the magasaimous slayer of Sxemirus, or by the iconoclastic John Knox; to judge by the following adminaions: -
"If these positions be correct, it followe that, as we ought not to erpect the doctrinea of religion in treatises on science, so it is unressonable to look for the principles of philosophy in the Bible. . . . But a still larger number of [clerica] anthors, although men of talents, and familiar, it may be, with the Bible and theology, have no accurate snowledgo of geology. The reaults fiave been, first, thet, by resorting to denunciation and charges of infidelity, to answer arguments from geology, which thoy did not understand, they have excited nareasonable prejudices and alarm among common Chridians reapecting that ecience and its cultivntors; secondly, they have awakened diagust, and eren contempt, among scientific men, especislly those of sceptical tendencies [!], who have jaferred thas a cause which resorts io auch defencea muat be very meak. They have felt rery wuch as a good Greek scholar mould, who should read a severe critique opon the style of Iscerates, or Demosthenes, and, before he had finished the review, ahould discover inlernal evidence that the writer had never learned the Greek alphabac." (881)

How true the latter part of this parsgraph is, the reader hes conrinced bimeelf by the peruss] of our Esany I. [supra]; where the Hebraical knowledgn of Calflugtic divines in Ame

Hos has been comparei with thet of ooeteneons Latherans and Cathotics in Europe. Contentions between acrambiers for the loaves and fishes may, however, be left to the diverted contemplation of the gatherers of SC. Peter's pence. None of them have real boaring apon the science of mundma chronology, to which onr present inverkigetions are confined.

Until very recent times, it was customary, smong chronologers, to follow the Judaic and post-Christian syetem in assigning eras to eventa; viz. : by sssuming that is given occurrence had taken place in such eyear (Anno hfundi) of the Creation of the world This arrangement would bave been absolutely eract, if the precise moment of Creation, accordIng to the "book of Genetis," hed been previously settled, or even conventionally egreed upon: bat, unheppily, no two men ever patiently reckoned up its namerals and exhibited the same sum total; ss will be made apparent anon, in its place. Besides, this arrangement vas found by experience to be theologically angapo; because, on the one hand, the Christian Fathers, hy asouming the Septuagint computation, demonstrated that Jeaue, appearing exactly in Josepbes's 5555th year of the world, oould be no other thac the xpacjas, "the anointed;" (832) whilet on the other hand, the Jewish Doctore, proving throagh compatation of the Hebrew Text that the birth of Jeaus had occorred in the jear of the world 3751, demonetrated that he could not possihly be their MeShaish. (333)
"There was an old trudition," says the profound Kennicoth, (884) "t alike common among Judmans aud Chriatisns, sprung from the mystic interpretation of Creation in six days, that the duration of the world ehould be 6000 years: that the Mesaisnic advent should be in the sixth milleanium; becanse be woald come in the latfer days. The ancient Jews, therefore, their chronology having been previously contracted, made use of an argument bufficiently specious, through which they did not recognize Jeans: for the Hesaiah was to come in the sizth millennium; but Jenus was born (according to the computation of time by them received) in the latter part of the fourth millennium, about the year of the world 3760 (Seder Ohans, edit. Meyer; pp. 96 and 111). The very celebrated [Mcslim-Arab] Abul-Pharaging, Who lived in the XIIIth century, in hia history of Dynasties, thas proffers a sentence worthy of remembrence; by Pocooke so rendered into Latin:-4 defective computation is ascribed by Doctors of the Jews-For, es it is pronounced, in the Law and the Prophets, about the Messiah, he was to be sent at the ultimate times: nor otherwiee is the commentary of the more antique Rabbis, who reject Ctrist; as if the ages of men, by which the epoch of the world is made out, coald change. They aubtracted from the life of Adam, at the birth of Seth, one hundred years, and added them to the reat of the 3atter's life; and they did the enton to the lives of the rest of the children of Adam, down to Abraham. And thas it was done, me their computation indicates, in order that Cbrist should be mevifested in the fifth [fourth, K.] millennary through aocident in the middle of the years of the world; which in all, according to them, will be 7000: and they said, We are now in the middle of this time, and yet the time designated for the advent of the Hfeatiah has not arrived.' The computation of the LXX also indicates, that Christ should be manifested in the sixth millennary, and that this would be his time. . . . The old Italie version, which, according to St. Augustive, was - verboram tenacior cum perspicuitate aententim, ${ }^{\text {' }}$, , the foundation of the chronologia major of the Latin Church, to this day (1780) ; for, "in the Roman Martyrology, which is publicly chanted in church, on the 8th Jan, the Nativity of the Lord is thus announced to the people from the ecclesiastical table: Year from the creation 6099 ( 5190 in Martyrol. Rom. Antwerp. 1678, p. 388) : and fram the deluge year 2967 (Hon., p. 447)."

A quotation from a Chriatian work nert to canonical will estahlish the belief of thowe early communlties who lived neareat to the apostles: - the 5500 years, be it noted, hed been, by Nicodemus, "found in the first of the seventy books, where Michael the erahengel" had mentioned them to "Adam, the first man."

[^206][^207]

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        the frot man Adem, and that from thence to thy flook, were two thorantid, two hundred, ad
        twelve years.
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        and thitiy. And from Mooes to Devid the khe, five haodred and len-
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 to the jucarantion of Chrirh，bour bundred jears．
19 Tha sum of all which amonith to five thousatid and a half（e thoumand）
 God Amon．＂（80s）
The conclusive logic of this passage derives oupport from another ancient christing dosument，wherein is given the reason why the and of the worid was expected some time ngo：一
＂Consider，my children，what that signifies，he［God］finished［cresting］them in six days．The meaning of it is this；that in six thousand years the Lord God will bring an thlngs to an ond．＂（a36）

Such being the whole Elory，the reader has now to make choice of whichever of the for lowing dates may stuit his riews apon the

Epocelat or Cbration．


These are mere excerpts of 120 different opinions，on the dete of Creation，tabuited by Halea．（887）This list can easily be awelled to above 800 distinot and contradictory hypo－ theres．Between the bigheat opoch，b．C． 6884 （the Alphonsine tables），and the lowest， B．c． 8616 （Rabbi Lipman），there is the trifiling differance of 8268 yeara！
 instances from the learned pages of De Brotonne（388）．．－＂Among authors who deny the eternity of the world，not one，from its creation to the sdvent of Jean Christ，oonnts mare then 7000 yearg，nor less then 8700．＂He also supplies a sohodule of 70 more diepriants， ranging betwean 日．c． 6984 and 8740，from Riccioli；（889）but the sobjoined are acme of bia own，axtra

| 1． 6 |  |
| :---: | :---: |
| Saldes ．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．． 6000 |  |
| Fleephoran，Conntanttopoltionut ．．．．．．．．．．．．．．．．．．．． 5000 | St．Ibdore ．．．．．．．．．．．．．．．．．．．．．．．－－．．．．．．．．．．．．．．．．．．．．．．．．．．日rin |
| Fombitis Comarfonda ．．s．e．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．． 6280 | Montmanil ．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．38． |
| E4 Jerome，and Bede．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．． 80.102 |  |
| Hyerion．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．B47s |  |
| Et．Jullan，mi the IXX，．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．6200 |  |

[^208]Ricololi shows that compritations upon difforent axemplars of the LXX oacillate, also, betveen a maximam of 5904 yean b. c., and a minimum of 5054, for the Creation alone! Nevertheless, "Colam ipeum petimus stultitig." Not antiefled with human inability to define, through biblical or anysoaver methods of reckoning, the age when Creative Power firgt whirled out incandescent planet from the sun's fire-mist, some intelligences, st the sapernatural stage of meatal development, have actually fixed the month, day, and hour:
"And now hee that desireth to know the geere of the world, which is now passing over us this yeere 1644, will find it to bee 5572 yeeres just now finivhed since the Creation; and the jear 5578 of the world's age, now newly begonne thia September at the APquitcx." (840) Anno Mundi I; "VIth day of Crestion, . . . his (Adsm's) wife the weaker vesooll: she not yet knowiag that there were any Devils at all $\ldots$ sianed, and drew her humband into the anme trangression with her; this was ebout high noone, the time of eating. And in this loat condition into which Adem and Bre had now hrought thamseives, did they lie comfortlease till towards the cool of the day, or three o'clock afteraoone. ... (God) expelleth them out of Eden, and so fell Adsm on the day that be was crested.' (841)
"We do not spenk of the theory set forth in a work entitied Nouveau Syuteme des Temps, by Gibert father and son. This system, whioh is not no new as its title seems to annoance, gives to the world only 8800 years of duration down to the lst July, 1894; sad makes Adam's hirth 1797 years before J. C., on the Ist July." (842)
" It is, besiden, generally allowed by Chromologiats, that the begionfag of the pitriarchal year wes compated from the antumal equinox, which fell on October 20th, e. 0. 4005, the year of the creation." (848)

But the Promethean intropidity of orthodory is not conlent rith mathematioal demonetraions of the year, the month, the day, nor the hour of Creation. It escende, in some oxtatic cases, far beyond! Thos, Philomneato beade an eapeciel chapter with

## "Artgendeie-What God wes about before the crestion of the world." (844)

Albeit, none of these profenatlons of science contain one sofitary element, in regard to Creation, that is strictly chronologimal. "Pustons au Deluge" (345) -ulet us descend to the Flood; and see what resting-plece a "dope" could find amid these wastes of waters and of time. Por the

## Epochas of thi Dhluen,

out of sixteen opinions published by Hales-maximom, в. c. 3246 ; minimum, 2104; differ. enee 1142 yeara-the following are oingularly in eccordence:-

| 8-ptonght Ferata....................................... 3810 | Vilger Jewish comprialon............................. 8104 |
| :---: | :---: |
| Bamaritan Text-........................................... 20.208 | Halel.......................................................... 3180 |
| Fingloh Bfble......................... ..................... 2848 | Uhbrr................................. ........................... 2848 |
| Febrew Taxt................................................ 2888 | Celnet... ..................................................... 2344 |

Jowephus $\$ 148$

So art aleo the intervals of time asaigned, by the spbjoined compatators, to mandane existente, between the Cration and the Flood. We borrow them from De Brotonne.

## Criation mo Delver.

| 7R17. | 140 |
| :---: | :---: |
| Joeptrus................................................... 2208 |  |
|  |  |
| Cramen Alexepdrinat.................................. 214 | fidon, Hociolt $\qquad$ 1050 |
| IIl erim....... .............................................. 2887 | Ei. A agastlin - "Prom Adam to the Dolnge, no. |
| Votich, Rberoti ........................................... 2281 | cordlay to our mecred booke (i, $a_{4}$ the IXXX), |
| Ornalime \% Laplia...................................... 1687 | there have olapoed 2049 yearn, at per our ox*mplars; and 163, mocording wo the Eebrawh." |



(8ㄹ) De Bzopasnis; op, 佔; H.p. 100.

(bu) Eivre Sat Siegoderibis: Dyma, 1841.


Bat these disorepancies wre incrensed by the computations made, since 1628 a. D., upon M88. of the Samaritan Pentateach, which geaerally yield an ioternal between the Creation and the Delage of yeare 1807.

The beais of all these culoulations lies in the hyperbolioal lives of the ten astedilviaa Patriarche. It will be seen, through the skilful syopsis of a learned divine, bow admirably the namerals of the Hebrow and Samarilan texta cortespond, not merely with each other, but with those of the Septuagint version, and of Josephus: -
"The following tabular schemes oxhibit the varistions; the numbers oxpresaing the parent's age at the fon'l birth, except in the cases of Noab and Shem.(846)

| ANTS - Dilutis Patratichas. | Hebr. | 8amr. | LXX. | Jowp. | Poet-Dherias Pathancric | Hetr. | Sanay. | LIX. | Jatat |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1. Adam ................ | 130 | 130 | $\underline{20}$ | 220 | 11. Shen (ared) 100 at |  |  |  |  |
| 2. Eth,................... | 103 | 205 | 205 | 208 | the Flood) .......... | 3 | 8 | 1 | 18 |
| 8. Phas................... | co | 00 | 190 | 100 | 12. Arphaxadt......t... | 86 | 135 | 18 | 185 |
|  | 70 | 70 | 170 | 170 | 12. Cainan apmrionf... | 0 |  | 180 | -1 |
| 8. Mahalaleel ............ | 0 | 4 | 180 | 165 | 18. Satak ................. | 80 | 180 | 4 | 1 |
| 4 Jarad .................. | 182 | 62 | 1182 | 162 | 14. Hebre. | 8 | ${ }_{14}^{18}$ | 19 | 18 |
| 7. Proch .r.i............ | ${ }^{68}$ | ${ }_{88}^{88}$ | 18 | ${ }_{\text {(1)48* }}^{\substack{\text { 187 }}}$ | 18. Prig ................... | 8 | 10 | 19\% | 1场 |
|  | 187 | 67 | 18 | 187 | 18. Rew... | 88 | 188 | 1980 | 1480 |
| 10. Noah (at the Flood) | 600 | 000 | 000 | 600 | 18. Nuhtor. | 178 | 18 | 磳 | 150 |
| -160 sa doubt-) |  |  |  |  | 19. Terah (0en. If. 2ifi.4) |  |  |  |  |
| $\begin{aligned} & \text { lere the correct }\} \text { Total } \\ & \text { reading. } \end{aligned}$ | 1008 | 1305 | 2 |  | Bo to Abraham .... | 342 | 1008 | 1008 | 103 |

The above, like all other tables compiled by theological compatatora to illastrate eocslled "Biblical chronology," assumes the numerals of current printed exempless to be correct; but, if we set to work, arohmologically, to verify the original Hebraw, Greek, and Samaritan manducripis, we find even this apparent uniformity to bo a delusion-indeed, another orthodox figment $A$ few instances pleasingly exhibit this fact (347): -
"In one of the menascripta collsted by Dr. Kennicott, and which is marked in his Bible, codex clvii., this century [in the Hehrew generstion of Janmb] is owitted, and there is much probability tbst it was also omitled in the copien used by the enstern Jews. According to the testimony of Ismael Sciahinshis, an eartorn writor, all these copies reokon ouly 1556 yeara from Adsm to the lood, instead of 1656. . . . According to the nembers atill existing in the vast majority of [Greez] mpnuscripts, Methunolah dies 14 yeart after the deluge, and had not the fifty-three, of the generstion of Lamech, been changed to eighty-eight, he vould have died 49 yearg afler the deluge. . . . The deluge occurred, aocording to the Septuagint, in the year of the world 2242, and by adding up the generations previons to hia, we shall find that be mat born in the year 1287. He lived 068 years, and therefore died in 2256. But this is 14 years after the deluge! . . . And had they [the theologera] not, by is previous syatem of changes, added e century [in Greek $\operatorname{NSS}$.] to all the generations, be Fould have died 249 yeara atter it. . . Origen appears to have been the first who guve notoriety to tha contradiction; and for a long time, the fuct greatly distarbed theologians. The reader will be hardly surprised to learn that in a subsequent age some mannacripts were found with the error correeted. . . . Some [Greek MSS.] make the generation of Adam 880 years ; one mazen it 240, Another gives 180 to Canam, a third 170 to Jared, whito others cllow 177 or 180 to Methuselah. .. One [Hebrew] maduscript, codex lizi. of Holmes, makes the age of Methugelinh 947: three or four other authorities make the generation of Lassech 180 : the two corrections conjoined, bring the death of Methuselah to the year of the deluge. We also find three other authoritjes making the generation of Methuselah 180 years; this connected with the 188 of Lamech, places the death of Methuselah only one year after the deluge, oven nilowing him full age. Another manuscript makes his generation 177 years, three other authorities give the number 165, While one manascript makes hin total age 965 . . . Dr. Kennicott has given readings of $\mathbf{3 2 0}$ Hebrew manascripts of the book of Genesis. 97 of these have been colleted throughont, 293 in part only. . . . One manascript (coder civii.) omita the hundred yeara in his [JABED's] gentration: two othere (codicet ci. and claxit.) omit it in that of Methnselah: and one (coder ryiii.) in that of Lamech. Coder claxvi. makes the generation of Lamech 172 and his total age 772, and coder rviii. makes his total age 909 . . . . We also find that, in three

[^209]or four manuscripts, some of the numbers of Methuselah are written over erasures. This, of course, looks suspicious. One manuscript (codex clv.) makes Enooh live after the birth of Methuselah 'five and sixty and three hundred years ' [i. e., the old 865 days of an Egyptian vague year!], instead of 300 years simply."

Thus far Luke Burke in his studies of the Hebrew variations exhibited by Kennicott. (348) The annexed Table, shows how he found matters in the Greek of Holmes. (849)
"Table III.


* In this case, nine hundred has been corrected by another hand into seven hundred. There are several minor remarks and explanations relative to this table, which we should have been glad to have afforded, Were we not much prossed for time and space. These, howerer, would, after all, be of little fnterent to the general reader, and the learned reader will not need them.
. . The first glance at this table will show the inquirer, that he has got into a region of various readings, very different from that presented to him by the Hebrew manuscripts. Instead of some eight or nine variations found in some three hundred manuscripts, he has about 118 , found in a much smaller number of manuscripts ! . . . Are we to say, then, that the Christian scribes were, in general, so wretchedly careless, that they made twenty errors where a Jew made but one? . . . These things, therefore, evince design, not accident. We find one variation followed by more than 32 authorities, another by 18 , a third by 9. There are three which are each copied by four manuscripts, four which are copied by three each, and two which have each two manuscripts agreeing in them : thirty-one only . are single variations, and some of them, at least, are as clearly intentional as any of the others. As to the variation which makes Methuselah live 782 years after the birth of Lamech, instead of 802, no one can doubt of its being intentional. 788 is the Hebrew date, and it was here copied from the Hebrew for the same reason that the Hebrew was previously invented, viz.: for the purpose of bringing the death of Methuselah within the antediluvian period, instead of fourteen years after it. . . . Codex LVII. has the total age
(348) Vetus Testamentum Hebraicum, cum variis lectionibus; folio, Oxon. 1776-80.
(349) Vetus Testamentum Greecum, cwm variis lectionibus; folio, Oxon. 1798-1827.
of Methuselah 947, while four authorities bave bis generation 165. . . The whole number of variations in the cese of Methuselah is 60 ; more than balf the number in the entire Antedilurian Chronology. Every one of them but four, or at the utmost five, viz., those making the generation 165, and codex LXXXII. making the total age 965, bave reference to the error in the ege of Metbuselah. This fact is of course aignificant; and at once redaces, to nearly one-balf, the number of variations that oan be supposed accidental. This number is easily reduced etill farther. Codex Arabieus 1I. bes all the Hebrew numbers, in the case of Lamech. The Chronion Orientalia hes the generation like the Hebrew, and, for anything we know to the contrary, may have the other periods in harmony with this generation. Codex CXXVII. has the Samaritan numbers in five inslances. The Sclavonic veraion gires as both the Hebrem numbers in the cane of Adam, the Armenien edition gives one of them, and the Ostrogoth version the other. Thos we have 18 more intentional varistions, making the whole nomber, thus far, 78 out of 118 . Nine manascripts make the total age of Mabalaleel 795, instend of 895 ; four make tbe generation of Adam 880 instead of 280 ; four othera make the age of Enos after generetion 915 instead of 715 ; and four make the generation of Lamech 180, instead of 188 or 182 . Three make the total age of Lamech 756, while three others make it respectirely 788 , 765 , and 768 . These make 27 other casea in which the intention is apparent though lens obviously than the former. 80 that we thas have 99 ingtances ont of 118 , which cannot be reasonably attributed to accident. And even of the remaining nineteen, there are not more than too that have any unequirocal indications of being accidental. The substitution of 300 for 30 in Codex XFIIL, in the wial age of Adam, is evidently accidental, ss is the 805 for 205 in the Coptic reraion, of the generation of Aath. Accident may also bave occarioned some of the other ehangen, but this is not probshle. . . When Origen, in the early part of the IIId century, begen to collate these manuscripts and versions, he was confounded at the clashingo which he ditcovered in them. Whole passages existed in some [Greek biblical MSS.] for which there Was дo counterpart in others, nor in the Hebrew, nor in the Samaritan. .. .
"The reader will here naturally ask, how is it that the commentatora bave managed to confront these hoata of difficulties, and yet avoid the inevitable inferences which a cleat view of them discloses: The answer is simple. They never bare fairly confronted thom. They dever have classiged them, or ansiyred them, in a manner likely to lead to the truth They would not admit that any conclusion could he true which did not harmonine with their pre-conceived theory of the entire iospiration of every portion of the Scripturea - of every portion at least whicb they severally regsided as canonical. This with them was a settled point, from which they neither wished io recede, nor dared to reoede. Their works therefore present as with little more than vain stiempte to reconcile, to soften down, to slar over these contradictions.
"Thus, it is erident that this antediluvian chronology, 89 we now have it, is not tho wark of any one person, or of any one ers. In its original form [not eariler then e. c. 130 to 420 ] it wes not only contradictory to all human experience, and to the lawa of organization, but also glaringly self-contradistory. It is plain, too, that it has been repeatedly sllerod, in various ages, and by various people, and that these alterations bave been made in a perfectly arbitrary manner, and without any reference to facta or historioal data bearing upod the sabject. Who csa say by Fhom, or when it was drawn up, or how many atagea it has pased through previously to the changes we have spoken of? Is it not folly, then, to pretood to regulate history by series of numbers thus tempered with, to say notbing of their scientific and historic impossibility ${ }^{\prime \prime}$

Folly! It is worse than folly: it is an sbsolute diaregard of every principle of rectitude; an impudent mockery of edacated reason; a perpetualized insult to honest undetstandings; and a perdurable dereliction, on the part of intereated and self-conceited supernaturalists, of Almighty truth. Igporsnoes, abject igoorance, is the only plea throngh Which future sustainers of genesincal numerals can encape from the charge of knavery. Let imberility impsle itaelf, henceforward, on either horn of thie dilemme for edification of the learned; and with the derisive jears of men of science, who are now endeavaring to recongtruet a solid chronology out of the débris of universal and primeval hamenity yet traceable, in their yarious centree of Crantion, upon our plenet's apperfioien.

The reader of Esesy I. in the present work is aware of the conjectural hunderds of thousands of varisats proceeding from what Keanicoth, De Rossi, and the Rabbis, qaalify ws the "borrible atate" of the Manucripts of the Old Tealament. Hp siso may infer the bintorical metomorphoses of niphabeta, and the alterations of numbert which, to snit differens schools of theology, the Hebrew and Samaritan Texts, and Septuagint version, onderwens between the third century before $c$. and the fourth century after. A pledge, too, has been incidentally made to him, that a futare puhlication ahall demonstrate why the 1 the patri-
archs," from A-DaM to Noakh, were no more human beingz, in the ides of their original writers, than are the othno-geographical names catalogaed in Xth Geneai. Abler hands, in aoother chapter [XI.] of this volume, bave set forth what of geology and palaontology throws more or leas light upon Typas of Mankind.

Leaving the Deluge, its univerestly or its fabled reslity, to professions! reconcilers; (850) the chronological bearings of this hypothatical event compel us not to dodge, at the same time that it is far from onr intention to dwell upon, ite pesaing considerstion. No Hebraint disputes that, eccording to the literal lengasge of the Text, the flood wns universal. To make the Hebrev Text read at if it spoke of a partial or local catastrophe may be very harmonixing, but it is false philology, and consequently looks rery like an impostare.
"The watern roelled up (prevailed) in initely over the earth; all the high mountains, beneath all the skies, were covered: fiflean cubits opward did the watere rise; the mountnins wers covered" (851)

The level of the flood wan, therofore, $22 \frac{1}{2}$ fat above the Dhawalsghiri ( 28,074 feet) and ovar the Sorata ( $26,200 \mathrm{feet}$ ); eccording to Hambeldt. (352) Equivalent to some two mike above the line of perpetual enow must, therefore, bave been the level whereupon the Ark would have been frosen solid but for an univertal that. This is what the Hehrew chronioler meant by KaL HaHeRIM, HaGiBnHIM - all the high mosntains; even if Hindostan and America $\begin{gathered}\text { Fere as alien to his geography, as auch an equeas eleration is to the pbysidst. }\end{gathered}$
" If there is eny cirgumstance," declarea Cuvier, "thoroughly established in geology, it is, that the crust of our globe bas been subjeeted to a great and sudden revolution, the ${ }^{-}$ opoch of which cannot be dated mach farther back than five or nix thousand years ago; that this revolution had huried all the countries which were hefore inhabited hy men and by the other animals that are now best know." (858)

Science has fonnd nothing to justify Curier's bypothesis, conceived in the infancy of geological stadies; whether in Egypt, (354) in Ansyria, (855) or on the Hissiacippi: (856) whilst withouk delving into the wilderness of geological works for flat contradictione of this oft-quated pasage of the great Naturslist, here are three extracta by way of arreat of judgment: 一
"Of the Mossio Delage I beve no hesitation in saying, that it has never beet proved to have produced s aingle existing appearance of any kind, and that it ought to be atruck out of the lint of geological causes." (857)
"There is, I think (says the President of the London Oeological Society 1831), one grest negative fact now incontestably estahlished; that the rast magses of Dilurial Gravel, bentiered almost aver the aurfoce of the earth, do not belong to one vialent and transitory period . . Our errora wers, hovever, natural, and of the ssme kind which led many excellent observers of a former century to refer all secondary formations to the Noachank Delvar. Heving been myself a believer, and, to the beat of my porer, a propagator of What I now regard at philonghic heresy, . . . I think it right, an one of my last act before I quit this chair, thas publicly to read my recaptation,"

A iater Freaident of the asme illastrious corps, 1884, uses aimilar language: -
" Bome forteen yearm ago I advanced an opinion . . . that the entire earth had ... been covered by one gerseral but temporary deduge . . . I also now read my recantstion." (868)

Wers it not for sach denials of Cavier's six-chiliad dectrine (to which bundreds might be edded of the whole fohool of true geologiets at the prasent day), then, it would be ovident to archmologists that "geology" must be of necessity a false science: and for the following reason :-It has been shown [supra, p. 662], that the first chapter of the "book of Genesis" Is an ancient conmogenical ode, with s "chorus" Jike the plays of Grecian dramatists; that its authorship, if antirely onknown, in not Kosaic; - that its age, the style being

[^210]Blohiatic and the writing alphabationl, cannot ascend even to the tenth century before $\mathbf{c}$.; and that, being besed upon the hermonic seale of 7 motes, in accordance with the arruneons planetary eystam of Chaldaic magianism (os 5 plancts, and the sum and moon); it is an arbitrery humen production, fonnded upon ignorance of the physical lows and phenomena of Nature - as this Nature is unfolded by science in the nineteenth century.

In consequence, did geologiote pretend to arrange the dosen, or more, distinct erentioms manifested in the aarth's oront through rocky stratifications and difforent foasil remeing (divided from each other by immensurable periods of iniorjeoted time), scoording to the " 7 musical notes" of Genecio, they would perpetrate a obricature of God's work more gross, and less excussble, than that of Cosmas-Indicopleuten: at the same time that they would make partide of stolid igroranoe of philology and biblical exegenis snoh as evtry Oriontalist, versed in archeology, must langh to sourn. On the other hand (whether practiend "geclogy" be or be not a fection), were a philologint at the present day to argue, that the writer of " Genesis i-ii. 3" possessed more fnowledga between the fifth and tenth centurite befort c., than Cosmes did in the sirth after that ers, bis logic would eatablish two things: lot, his absoluto ignorance of geology; 2d, of overy priaciple of biskrical criticism.

Indifferent, ourselves, to the self-appropriation, by either side, of one or beth of these branobes of the alternnive, we cannot leave the "Deluge" withort one observition; the foree of which theologers and geologists would do well to keep cosstantly in view. It is, that this genesiecal Flood is inseparable from NuKh's ArI, or boat Without the buogent convenience of the letter, let ethnographers remember, the entire bamen race would have been drowned in the former.

We coald quote a real historian, and tiving divine, who seriounly epeaks of Noah as "tha grest nsvigator." We have seen a wondrous plate of the "Ark," (859) exhibiting the Noachic family parsaing their domestic and soological avoostions with the placidity of a Yen Amhargh, and the luxuriounness of a Lacullas. We have read abondent descriptions of this dilurien packet-ship, in ecclesiastical and ponderona tomes, "usque ad nangeam." Bat, there is no work that does such pains-tsting justice to the "Ark;" there is no man who han exbsuated Noachian seamanship, antedilavian ship-bailding, astaclysmal proprieties, humen and animal (from the "leoperd lying down with the kid" in their berth, to the cheerful amartness of Ham the cahin-boy) -then Father Kircher,(860) almost two centuries ego. It is a shame that tome grest pablisher does not reprint suoh s aterling good work, abounding in plates; as it might be a most oneful field-manual to the orthodox geologiat, and pleasing, at the same time, to childron. Unable to do adequate bonor to the Arkite resesches of this Herculman Jesuit, we must be content with the lucid description, in plain English, of the Rev. Dr. Lightfoot; who, living ebove two hondred yeare nearer to the Deluge than ourselves, no doubt knew considerably more than Fe do about the vessel that survived it. (361)
"The dimensions of the Arke were auch, as that it had contained 460,000 square oubits within the walle of it it it hed risen in en exact equare unto the top; but it sloping in the roofe, like the roofe of an house, till it came to be but a cahit hroed in the ridge of it, did abste some goad parcell of that summe, but how much is uncerlain; shoald we allow 50,000 cubjis in the abatement, yet will the opsoe bo sufficient enough of espacity, to receive all the crestures, and all their provisions that were laid in there. The building was three etories high, but of the staires that rose from story to etory, the Text is silent; in every story were partitions, not bo many, as to seclude one kinde of creature from another, for that was needlesse, there being no entrity batween them, while they were there, and it would have been more troublesome to Noah to bring their proviaions to them: but there Were such partitions, es to divide betwixt beasts and their provisions in store: betwirt provisions and provisions, that by lying neer together might receive dammage. The doore was in the side of the lowest atory, and so it was under water all the time of the flood; but God hy an apeciall a providence had shat them in, that it leaked not. In what etory overy binde of creature had ita lodging and habitation, is a matter undetarminable; how their excrements were conveyed out of the Arke, and water conveyed in, the Text heth con-
 1893; pp. 9, 10, and pl. i.


coaled. All the oreatures wert so cicarated and of a tamed condition for this time, that they lived together, and dieted together without diseention: The colf dwelte with the lamb, and the leopard lay down with the hid, and the calf and the young lion together: and Noab or any of his family might come among lions, dragons, serpenta, and thag bad forgot the wildness and erueity of their nature, and did not meddle with him."

Chronology, therefore, among men of acience, possesses relation peither to the unknown epoch of the "Deluge," nor to that of the "Crestion." These events, gcientifically unseizable, are abandoned by positivista to theologioal tenacity.

Archwologists, in efforts to re-arrange the Worlu's occorrences from the chaos into which ecclesientical presumption bad cast thom, now pursue an altogether different process of inquiry. Deginning from to-day, as a lxed point in history if not in univeran nature,(862) they retrogrede, as closely as posible, year by year to the Christinn ers; asid to he 1958 years back Farda from the present year. From that assumed point, chronologers continue to retrocede, gear by year, so long es history or monuments warrant such annual registraLion of eveats: but when, owing to absence of record or to confusion of accounte, the impossibility of identifging a given date for a given occurrence hecomes manifest, they endenvor to define it approximately within a few years, more or less. - In the ratio of their receasion into the mists of antiquity, so does the possibility of fixing an approximate epoch diminish; and, therefore, it becomes necessary to groap given number of events into manses; which conventional masses become larger and less distinctly marked in proportion es they are remote from that ers we call "the Christian."

The ers of the mirsculous birth of Joses was the stand-point of chrocologista; the pivot opon which every modern system turas. How minutely precise to the mathematician this ers is, may be perceived, hy archaologists, at a glance.

Epone of the Nativity.

| According | 8 authorites -Tilemoni, Mand, Prieatigy.......................... 747 ... |  |  | Year betors 0. ......... 7 |
| :---: | :---: | :---: | :---: | :---: |
|  | 4 |  | Kepler, Capellus, Dodwbil, Pegt..................... 748 | 4... 8 |
| $\cdots$ | 5 | $\omega$ | Cbryootiom, Petariuc, Prilenux, Pleytur, Hedea 749 | 5 |
| 4 | 2 | 4 | Sulpitias Bererua, Usher............................... 760 | 4 |
| 4 | 8 | 4 | Irensens, Tertulifan, Clemone Alex. Eanobluh, Gyncellus, Beronitus, Chividion, Yoselas. $\qquad$ 761 | $\therefore . . . . .$ |
| 4 | 7 | 4 | Eppheniuc, Jerome, Oroelus, Bode, Bellen, Sifor <br> nlag, 8callger $\qquad$ $\qquad$ 752 | .... 2 |
| $\stackrel{4}{4}$ | 8 | 4 | Albyander Dony fius, Lather, Labheur..........., T53 The moment of the Nativity 18 , coturequently, sero | $\begin{array}{r} 1 \\ \ldots \ldots . . . \\ \ldots \end{array}$ |
| * | 1 | ${ }^{3}$ | Herwart...................................................... 764 | Year aftar C |
| 4 | 1 | 4 | Paxl of Mbddleburbb................................... 785 | 2 |
| ${ }^{\prime}$ | 1 | 4 | Lydat ....................................................... 780 | 3 |

35 suthoritieg, of the mont orthodox achools, here differ among themselves ten years about the ers of the grandeat praternatural event in human annals; which event is itself dopendent in epoch upon the implied accuracy of a date-Anno Urbis Condita, the "year of the huilding of Rome" - thet, in his next pages, the Rev. Dr. Hales (868) ahows to be fluctuating, according to six dntes established hy 84 chronologists, between the assuzeed jear B. c. 753 and в. c. $627!$

And this is what theologers term "cbronology." In the Amerionn edition of Calmet,(864) the date of the Nativity appears thus (the reader being free to adopt, in a free country, Whicbever date he pleases) - the editor naively remarking. "It must, however, he horne in mind, that the particalarity of the dntes here assigned reats obielly on mere conjectare": -

| Year of 值orld. | Befure Obrist | Before A. $\mathrm{p}_{\text {d }}$ | Year of Churst |
| :---: | :---: | :---: | :---: |
| Caskit. | Filst. | Chimit. | Cangry |
| 4000 | 6 | 4 | 2 |

(282) IIOxboLp: Chmor; L. p. 178; nota, on "The Knglsh Bupdey"I
(364) New Anolyris of Chron. ; 1850; L. pD. 214, 277; OumDon: Chaplers; 1943; p. 33; and Otid; 1849; p. 4n
(364) Dictinnary; "Chronological Table;" 1832; DR O47, B6L

However, avers the Rev. Dr. Horne, (865) "The trae date of the birth of Christ is far jenre before the common ert, or 4. D." This dgte we should not be nowilling to scoept but for the Rev. Dr. Jesvis (366) - "The date being taken of December 25, by reckoning back thirty geara from his baptiam, we come to his birth, A. J. p. 4707, six years before the common mers." It quild not be decorous in us to bold fast to such dogmetic extension by a Churchmen who sacrilegioualy derides a mitre - "Abp. Neweombe could say, 'Jesas mis bern, say Lardner, between the middle of August and the middle of November, a e.c. 748 or 749. (Cred. I. 796, 9, 8d ed.) We will take the mach time, Ootober l.'! !!" The notes of admiration are the Rev. Dr. Jervis's.

We have preferred quoting the latest authoritiea; bat it need not be obserred to the learned that this dicouseion has heen revived periodically daring the lat ten centuries with no better resulb, than when agitated previously between the onbeliering Rabbis and the ell-helieving Fatherr. Ex. gr., John of Spain (367) sams up: -
"That there bas been sought in what season of the year, in what month, and on that day our Saviour wes bors: some place this hirth at the winter solstige; others, at the equinor of sutumn or the equiacr of spring."
And again, Bosauth one of the most enlightened men of his age, winds op bis chronological invertigations as follows: 一
"Birth of Jeank, son of Joseph and Mary. - It in pot agreed as to the precios year when he came inco the world, but it is agreed that bis true birth precoder by some years wur ralgy ers. Without disputing further upon the year of the hirth of our Loord, it suffees wat wo know it happened in the year 4000 of the world." [! ] (868).

If we inquire the age of Jesus at his death, Bossuet tells us, that-"According to Mstthew, he was 88 yesra old; to Pagna legead, 21; to Lake, 89; to Bossueh 40,"
"Common Ctristians," as the Rev. Dr. Hitchcosk degignate" them (ubi mopra), may atart back in amazement at these results upon the year of the 8arior's birth, which the first alashes of an archrologic scalpel bave now laid bare. Mystified by childike or fradaleat guthorities, they may or may not be grateful for the trath; hut their conacientiousness will herenfter whisper to their minds that it is eafeyt, perhapa, to become more charitable towards men of science; whase anvearied struggles to arrive at a chrobology are superinduced by acquaintance mith thase facts. In the meanwhile, readers of Straus and Hennell know why the settlement of the year of Jebus's nativity is one of those thinga not to be jooked for ; because, an Bealiger mrote - ${ }^{1+}$ to determine the day of Christ's birth belongs to God elone, not to mas."

To "uncommon Christiana," whose effrontery bas led them to accuse Egyptologists of dissensions an to the epooh of the firet Pharsoh, Menes, (by no thorough hierologist dogmatically fixed) wa have merely to advise their prior detormination of the gear of Chriat's nativity, before they henceforward venture into Egyptian polemice wherein they themelves are the only parties lisble to "get burt."

In a recent hieroglyphical work, to which allusion will be briefly tade in ita natoral department, the Royal Astronomer, Profesaor Airy, (369) through profound mathematical calculations, obtains a celestial conjunction which be denigastes " 2005 日. c.; April 8th." "s. c." implies before Christ. Now, as no humsn being onn determine the year of Christ's advent; and inasmacb at the foregoing tahle exhihits a difference of opinion oscillating between ten years at least; we would respectfully aolicit the astrodomical era upon which the learned Professor founds his minute coincidence. Is it apon the " star of the east " $(870)$ seen by the Magi" Or does he take the unknown moment of time "c." to be zero" Among archaologists, to asy "b. c.," merely implies hafore an epoch conjectural for one or more

[^211]Years; buk, withoat some more matbemetion indication of the astronomical date of the birth of Jeans, those Egyptian calculations made at the Royal Obseryatory must be preguant with error; and, at present, $e$ eem as valueleas to chronological acience, as are the hieroglyphic malinterpretntions that originated such a weate of official habor and of nationaliyimportant time.

To us, however, the forms "b. o." and "A. D." are merely conventional. No tatronomicel cerutude is implied by their use. This year, which is the LXXVIItb of the Independencs of there United Slates, may be, for aught we know, "A.d. 1850 " or "A. D. 1860 ;" although vuigarly temmed "the year 1868." When we use the customary era, ohronologically, it eimply means one thourand eight hundred and fifty-three years backwards from the present day; and "b.c." signifies whatever aumber of years the neceasities of illuatration compel $4 s$ to place before the 1853d year thus spocised. We leave Astronomy to astronomere.

Fith this proviso conatanly present, the reader will nuderstend that the only ancient chronological erb, positively fixed, is the Nabonasarian - "February 26, i. c. 747." All olher dates in ancient bistory ate to this subordinate; although, for ordingry purposes, save when phenomens in the heavens can be bistorically condecled with homen eventa paseing on the earth, " B. o."' is both usual and adequate to the requirementa of archmological seience; still more of ethnological, wherein precision of specific eras is less imperative.

Our object, in this Esesy (III), is to lay before the reader a general tien of the relative positions which Egypt, China, Assyria, Judaa, and India, now occupy, in the oye of the monumental chronologist, on the tablesu of different baman origing. Like every other ecience that of chronology is progreasive: in the cases of Egyptian and Assyrian timeregiatry essentially so ; for, at the present yebr, 18068 , the former atudy is immature, the latter seareely commenced. That of China mast be accepted upon the faith (mhich there is not the slightest reason (o) impagn) of what Chinese historians who, having no theological motives for onfair curtailment or for preposterous extension, haye rebuilt from the areher ology of their own country. There is but one nation of the five of whioh the utmost limit can, nowadeys, be absolately determined, and that is the Judaan; whose ebronicles, in lieq of the first place atill claimed for them by ignorance, now occupy, among archaologiste, a fourth place in universsi history. For Greece, Rome, and more recent populationa, according to the criteria of their owa annals, we refer the reader to well-known histories.

It will be remembered that, in "Types of Mantind," ohronology is only one element out of many; and that we here profess merely to present the results of thase chronological lsborers who ere now reputed to be the most gcientifio, and consequentif the most nocurate.

CHRONOLOGY-EGYPTIAN.


#### Abstract

     puivent tre de le méme famille que le ranserti; co publie gobe-mouche quand il faut douter,  plue commode ot plus coutt de tuer se decourerto que d'onvrír se grammaire" (371)      aujourd'hus pour adeptes fervebs et convaineas, des homises rols que MM. Letrosne, Ampete, Blot, Alerlmee, Prime, E. Durnoof. Lepajuk, Guinen, Peyron, Gashera, Barycobl, Oliddod, leomith, [Aboken, Blreh, Ejekh, Bonomi, Bruageh, Brunet do Presle, De Beulcy, De Rouge, Harrin, Hineke, Kantick, Lanel, Lenormant, Lenueur, Marletien, haury, Mortok Noth, Oaburn, Yerriug, Puckefing   "In ahorh, the little spring of pure water which first buhbled from the Rosetts Stone, has, in twenty-three yeare, now swole into a mighty tood; overwhelming all opposition;


[^212]sweeping saide, or carrying in its surges, those whose inclination would indace them to stem itg force; and, at the present hour, we know more of positive Egyptian hietory and of the ancient inbabitants of Egypt, ages previously to the patriarch Abrabam, thad on meny mabjects $=$ enn assert of our acquaintance with England before Alfred the Grest, or with France before Charlemsgne!" (378)

The work lest cited, accessible to every reader of English at an insignificant coast, renders explenations on the incipient ateps of hierologionl discovery herein superfuons. As a synoptical report of the progress of Egyptian atudias it is correot anough, for geberal purposes, to the close of the year 1841. Our prosent point of departare is 2 d. 1829
"With Dr. Young's Key, and Champollion's alphabet contained in his letter to M. Derier, a group of scientific Englishmen, beaded by Menry Salt, and subsequentiy aided by A. C. Harris, commenced in Egypt ilself, about 1822, the scrutiny and examination of all the monumenta of antiquity existing, from the Sea-beach to Upper Nuhia, from the Oases to the peninsuia of Mount Sinai, and in every direction through the Eastern and Featern Deserts These gentlemen, mutually siding and co-operating with each other, ware enabled to takt instant adrantage of the true method of interpretation. Eqypt was then all rirgin ground Every temple, every tomb, contained something unknown befors; and which thees gentlemen wers the firt to date, sad to describe with accurate details. A more intensely inverexting field never opened to the explorer - every stap being a discovery. Nobly did theso learned and indefatigable trsvellers pioneer the way, and mighty have been the resulin of their arduous labors. They procured lithographic preases from England; and, at their individual expense, for private circulation, Messrs, Pelix, Burtom, and Wilkinson printed (at Cairo-1826 to 1829) and cirenlated a masa of hieroglyphiea! tablots, iegends, genealogical tables, texts mythologicsl sud historical, with other subjects, which, under the modes tities of "Notes," (374) "Excerpta," (375) and "Materia Hieroglyphicn," (876) were disseminated to learned societies in Europe. Lord Prudhoe's distant excursions and correct memorands rendered the collections of antiquities, with which he enriched Engiand, oxtremely valuable; and his labors were the more appreciated, as his lordship's liberal mind and generous patronge of science were above any sordid motives of acquisitiveness. Mr. Hay's own tcoarste pencil, sided by various talented artists whom his princely fortune enabled bim to employ, amassed an amount of drewinga that rendered his portfolios the largest then in the world. The researthes of all these gentiemen beve been of incalculable ralue to the cause. They heve preserved eccurate dats on aubjecte, (877) that the deatroyiog hand of Mohsmmed Ali has siace irrevocably oblitersted; aod as they all porsued science for itself, they deserve and enjoy a full measure of respect. The rumor of their auccesses reached Earope; and Champollion, with reason, apprehended that, if he delayed his visit to Egypt any longer, the individual labors of English travellers wonld render that risit an uaprofitable as unnecesaary. National jealousy Fas excited; and, to preserre ber position as the patroness of Egyptian litersture, France determined not to he anticipated
"In 1828, the Prench government sent a commission, consisting of Champollion le Jeone, and four French artista, well supplied with every becespary ontfit, to Egypt, in order that the master mighe, for his onn and his country's honor, and at ber expense, reap the harrest for which his band had sown the aeed. A similar deaign having araggested itself to another patron of arta and aciences, the Grand Drake of Tuscany, the celebrated archeologist and oriental seholar, Professor Ippolits Rosellini, of the University of Pisa, and four Italian artists ander his direction, चere appointed a commission to proceed to Egypt, with the asme intent as the French mission. It was amicably arranged by the respective governments, and between the chiefs of each expedition, that their labors shouid be anited; and, in consequence, the French and Tusean missions were blended into one, and both reached Alexandria in the same ressel, and prosecutad their labors band in hand from Memphis to the second Cataract. They returned in 1829.
"It wes amicably arranged, between Champollion and Fosellinf, that they were to combine their labory in the works that were to be isaued; each, however, taking separato branches-Champollion undertaking the ilitustration of tbe "Historical Monuments," and the grammar of the hieroglyphic language of Egypt - to Rosellini was assigued the Lask of elucidating, by the "Civil Monaments," the manners and customs of this sucient people, and the formation of a hieroglyphical dictionary. Each pet to work by 1880 ; but Champollion, finding bis end approaching, bastened the completion of his grammar. Intense application bad prostrated the fragile frame which enveloped one of the most gifted mental

[^213]capacities aver rouchnfed to man. The government gave bim, in the College de France, a profesoor's chsir, created for him slone; and his addreas to bis pupils, at tho first and only occabion accorded to him by Providence, is a marrel of oloquence, aublimity of thought, and classical diction.
$\because$ He finished bis grammar on bis death-bed, and summoning his friends around him, delivered the entograph into their custody, with the injunction to preserfe it earefolly, for I hope it will be my viriting card to posterity.' A few weeka After, Chmpollion is Jeune was followed to the grave by the noblest men of France; and the wreath of Immortelles' hung oyer his sepulchre (at his native town, Figeac), symbolized the imperishable fame of the resuscitator of the earliest records mankind bas bitherto possessed."

His posthumous work were put to press at the expense of the nation, nor ia thoir eatire publication as yet complete. Death removed Roaellini (1841) before the Jonumanti debs Egitto e della Nubia received his final touchea: and hia worthy Italian colleague, Dngerelli, elso died (1846) previously to the termiantion of the latler's Interpretatio Obeliscorumi Urbi.

We may now proceed with a brief historical sketch of the steps through which Egyptian Clironolagy has become the'criterion whereby the annals of all antique nations are now meesured; subjoining referenees oufficient for the edacsted ioquirer to verify bibliographical accurscy.

Then Fourier, the polytechnic philoaopher, in that materpieee of eloquent erudition the Preface to the "Descriplion de l'Egypte"-claimed a period of twenty-five hundred yoars Before the Christian ers, (378) for the monuments which he, and the corps of illustrious Aavans of whom Jomard is the earriving patriarch, had beheld in the ralley of the Nile, his intuitive grasp of the amount of time adequate to the construction of then-annumbered piles an gigantio in their archilecture as diversified in their sculptures, obleined but little favor with the scholsra, and none with the publio of Europe, from 1810 to 1830 . As when the immortal Harvey announced his discovery of the circulation of the blood, no aurgeon, over forty years of age, bat died an unbeliever in the theory; so forty yeara efter the utterance of this chronologioal estimate by Fourier, and notwithatanding the rictorious labors of the hierologists, do wo still encounter cultirated minds unwilling to aocept; or incapable of comprehending, the general truth of his proposition.
Equally unpalatable was this scale of 2500 years, at the time of its publieation, to the representatives of two distinct schools; whom, for convonience sake, wa will deaiguate as the long and the shorf chronologists. On the one hand Dupuis and those estronomera who had claimed as mucb as 17,000 yeara b. c. for the erection of the temple of Denders, and on the other, the followers of the Petatian and Uaherian computations of the chronological element in Scripture, coincided in ite rejection; the former deeming it too restricted, the latter too extensive for their respective conmogenical theories. And, in a controveray in Which the frat principles of historical criticism, and a common basis of debate were alike Wanting; before Young had deciphered the first letter in the bieroglyphical name of Ptolemy; before Chempollion-le-jeune's "Precis" broze the spoll in mhich the antique writinge of the Egyptians bad been bound for fifteen centuries : and at a day when absolntely wothing Wes known of the respective ages of Nilotic remains; the dogastical assartions of the latter were infinitely preferable to the ballucinstions of the former.
On his death-bed, in 1830, Fourier was solsced by the glimpse whioh Champollion, then just returned from his triumphant mission to Egypt, afforded him of the probsble socuracy of his prospective vision : hat, before the founder of Egyptological ecience could arrange the enormous materials collected for his chronological edifice, the 4th of March, 1832, overtook Champollion on his own desth-bed, in the act of bequeathing the manusoript of hia immortal Gramnar, as "my visitiog-card to posterity." (879)

In the same year, Rosellini commenced the publication of the "Monumend dell' Egitio

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 chat wretehed larcouy which, Whlo It accounte for the noD-publimito ap $\boldsymbol{6}$ ibis bout of ell the Manemeripta


e della Nubis;" in which, for the firat time, an effort wan made to embruce in one grand compeadiam all Egyptisn docaments in that day deciphered. Inheritor of the ideas, end aseociate in the labors of the great master, the Tuecan Professor's frame-worl of chronology refects Champollion's yiems on Pharaonic antiquity down to the close of 1830. The praclical reault of the erudite Italian's researches was the monumeatal restoration of the lont history of Egypt, back to the XVIIIth Dyasaty, compated by bim at e. c. 1829, -and the vindication of the general accuraty of Manetho, hack to the XVIth dynasty, at e. c. - 2272 : (380) confirmed by Champollion-Figeace,(381) with many improvemente and valanble suggestions; mainly drawn from " les papiers de mon Frore."
In 1885, Wilkinson's admirable work, "Topography of Thebes," presented a summary of the learned author's personal exploration of Egyptian monumenta during some twelve gears of travel in the valley of the Nile. The epoch of Menes, firet Pharaoh of EgTph was conjecturally assigned to the year B. c. 2201; but the accession of the XVILIth dyansy placed at b.c. 1575, corroborated by the collation of hieroglyphical and Greot lists, erinced the critical anthor's appreciation of the solidity of Egypt's chronological edifice, and of Manethonisn authority, at least up to the latier era

We thas reach the year 1886; when e. c. 1822 as the maxinum, and an c. 1575 as the minimum, for the aecesaion of Manetho's XVIIIth dynasty of Diospotitam, were already recognised by the world of science in genersl principle as estabished facts: and sixteca centuries of lost monumental history became resabelated from the eepulehre of neth through hieroglyphical researches that only commenced in A. D. 1822.(282)

Hut there bad been, in Egyph times before! there were still extant the pyramid, vith the lengthy chsin of tombs extending for sbove 20 miles along the Memphite neeropolis, unexplored;--there were the "anplaced Kinga" recorded in the "Materia Hieroglyphica" -The "Excerpta"-and the "Notes"-of Wilkinson, Burton, and Felir ;-and there existed in the musequs of Earope, as well as throughont the valley of the Nile, innumernble vertiges, recognised by every qualified stadent of Egyptology to beiong to ages long anterior to the XVIIIth dynasty - immensely older than the year 1575-1822 m. c.; to say nothing of many biblical and classical texta that atteated the necessity for more elbow-room in the chronology of the ancient Egyptians. Every one felt it: - every man who bad beded the storied rains in Egypt itealf abserted it, with more or less asambane according to the eletticity of the sooial atmosphert he breathed : - every hierologiat knete it

How was the consoientious discussion of these overwhelming questions avoided! Why were the countlesa monomectal docoments, that vindicated the claims of Menetho's frad fourteen human dynasties to higtorical acceptance, left out of sight? Rosellini, wbile faidfully publishing all the materials in his possoasion, and throwing back pynmidal questians into the category of thinga enterior to the XVIth dynasty, havigg the fear of Petavias be fore hie eyes, modest!y declares -"Nè a me occorre indagare pì̀ addentro in canto bujo di tempi." (388) Withinson, -in mhose invaluable "Materis Hieroglyphics," among a hoat of "unplaced Kinga," the names of Shoopho, Shafra, and Henkera, baildera of the three great pyramids of Geezeh, bad been pablished yeara before, and too of them at least read and identifed, - Wilkinson, appailed perhaps at the anthority of Usher, jumps at a boand, in his Plate I. of the "Dyosatiea of the Pheraohs," from MENaI, over SE-NBFER-KE-RA and RA-NEB-NAA, to RA-NUB-TRR (wbich last he pleces in the XVth dyassty at s.c. 1880); omite every "unplaced King" published in bis previoun researehes; ignores some fifty Pharaois whose monumenta prove they lived between Menes and the XVIIIth dynasty; and essigus ooly the year s. c. 2201 (1) to Menee, "for fear of interforing with the Delago of Noab, whioh is 2848 н. o."
"I am aware," wrote, in 1835, the get-anknighted Mr. Wilhinson, "that the ere of Menes might be carried hack to a mach more remote period than the date I have sssigred

[^215]it; but as we bspe as yet no authority forther than the uncertain eccounts of Manetho's coppista to enable us to fix the time and the number of reigna intervering between his scceasion and that of Apappus, I have not placed him earlier, for fear of interfering with the date of the delage of Noah, which is $2848 \mathrm{~B} . \mathrm{c} .{ }^{\prime \prime}$ (884)

The inconsistencies inherent is thin acheme of chronology were exposed in 1848; (385) neverthelese, in his most excellent later work, "Modern Egypt and Thebes," 1843, as well as in his "Hend-boak," 1847, this erudite Egyptologist has left chronological disquisitions pretty mach as he had defined them in 1835 - as if inquiry had been stationary in Earapo during twelve yeara 1 - although, when treating geologicallg on the antiquity of the Della, "il laisse percer le bout d'oreille" in the following soientifie assertions: -
"We are led to the necessity of allowing an immeasurable time for the total formation of that space, which, to jadge from the very little accumulation of its soil, and the small distance it has eperoached on the sea, since the erection of the encient cities withia it, would require ages, and throw bask its origin far beyond the Deluge, or even the Hosaic era of the Cration." (386)

In consequence, Bir J. G. Wilkinson granted a reprieve of some few yeara to poor Menes; for (1887) in the same "Manners and Customs," this Pharach's ascosaion is placed at B. c. 2820 ; or ouly 28 yeart efter the Fhood :

It is sufficiont, herein, to point out to the reader, that the year 1886 closed with e mighty stride, elready scoomplished, into the "darkness of Egypt;" through which a mave of time, axceeding fftem craturies in duration, was irrevocably restored to the world's bigtory. The matilated ennals of the oft-maligned Priest of Sebennytus were findioated hy an unarawersble appead to monuments contemporaneous with the Pharsohs recorded hy him, beck to his XVIIIth Theben dynamty. More than one-half of the fwerty-five hundred years claimed by Fouriar, and Napoleon's "Inatitut d'Égypte," Was thenceforward restored to protitive history by the IIerologide.

The years 1887 to 1889 witnessed the munificent expenditares, and fulfinent of the grend conception, of a Vyee; the self-gecriflcing exertions of a Perring, but for whose fortitude, onthusiagm, and ongineering akill, amall, indeed, would have been the scientife resulta accraing from such immense undertakings; and the archsologicel acumen of a Birch, in deciphering and assigning an historical place to the fragmentary legends disenterred emong some 89 pyramidal masolea (387) of the Momphice and Arsinoite nomes.(388) Simultaneoualy with these successes, the Tablet of Abydos, that most precious register of the geaealogy of the Raysesides, found its way to the Britigh Musecm.(889)

Lenormant, (390) we believe, was the firat to apply the new diecoveries to ehronology; and Nestor L'H6te (891) to retread the Memphite necropolis, and verify some of the dats obtrined by the English oxplorers.

The combined result of these researohes, in the year 1840, was the recogaition of the great principle, that the pyramids, without exception, antedsted the XVIIth dynasty, already eatablisbed between the fifteenth and the eigbteenth centuries n. c. : 一 that a mass of "unplaced Kings," and a vast feld of unopened tombs in the borial-ground of Memphis; together with a prodigious varlety of lesser monuments, stretching from the peninanla of Binaj to the temples of Samreh and Soleb in Upper Nabia; still preserved autbentio recorda eoctaneous with the first feclve dynaties of Manetio: and that, from out of the chaos, the

[^216]IV/h Manethonian dyanty, cotemporary with the building of the Geesed group of pyrtmids, laomed lize a meteor in the nigbt of time.
Some perceptions were entertained, about those days, even in Amerios, of the probable extent to which monumental researches woild eventailly carry the epoch of Menra, In 1846, Bungen's era for this monarch was b. ©. 8643; and in 1849, Lepeius'a is y. с. 8898. Our "Chapter" (1843) ansert, that "if 1000 more yeara could be ahomn admissible by Scripture, there is nothing in Regyt that would not be fotund to agree with the exteasion.: It is a happy coincidence, exhibiting how different minda, in coontries widely apart, reasoning upon similer data, arrive at conclasions nearly the same, that, if the above " 1000 yearg " be eddied to our former ocojectural and minimum estimate, printed tan years ago, of the date of Manss, noted at about e. c. 2750,(822) the sum 日. c. 8750 filla, almost equidistantily, between the enas sseigned to this primordial Pharaoh by two of the three highent hierological chronographers : - tho third, it need soarcoly be obserred, being Mr. Hirch; who, whilst tabalsting Egeptian eventa in the recognised order of Manethonina dymartias, (898) has never yot put farth an arithmetical oystem of hieroglyphical chrosology. At remarked by ue (Otia, p. 45) :-
"We are dealing, in events so inconceivably remote, with stratifed maseas of timc, and not rith supponititions caloulations of the etact day, week, month, or year; in fatile attempta to ascortain. Which so many learned investigatora "ne font qu'un troa dans l'eara."

Our bketch of the progrestive conquesta over the past, commenced by Chappollion in 1822, through which a pathway has been hewn, inch by inch, by the axes of the Hierologista, far into the briery jungle of Pharaonic antiquity, bua reached the genr 1843; and already Fourier's "iteenty-five hendred years a. c." for the monuments of the Nila, erea to the unioformed eye, began to wear the garb of probability - to the bieroglyphical atndent, who had actually beheld arith hio own ayes these monuments in Eyypt itrelf, they had ansumed in that year the sapeot of certainty.
It is a remarkeble fact, that with the exception of Wikinson, whose chronological consistency has been indicated (oupra), not one of those Egyptologists of whom the critical opinion is now authoritative, and who, at this dsy, yet aspires to the name of a shori-cbronologist (that is, one to whom the Usherian dasuge, at घ. c. 2848, in a bed of Frocruates), has ever stadied Egyptian monuments in Egypt! Mucb allowance, therefore, should be made for living English echolara who still, like the ostrich, bury their heads in sand; surroanded an they are, essentially, by the "intellectual funkegiom" for whioh this age, in England, is ominently celebrated among acientific men on the Continent and in the United States. The ponderous weight of brains, congealed in the "cast-iron moalds" of Oxford and Cambridge, preses upon Britigh intelligence and edacation with the nambing power of an incubas. Among recent rindicators of the cleims of Egypt to the longut chronnlogy is Ferguson (" True Principloa of Beauty in Art," \&c., London, 1849), to wbose orushing pannphlet we must refer admirers of the edncational "gtandard of a by-gone and semi-barbarous age," upheld in "the Sister Universities;" with which etandard the citizens of repablican America, of course, need bave nothing to do, phyically, morally, or intellectualiy.(394)

The diecovery made by Lepsius, in 1840 (not publicly knowa for bome yeara later), that the Tabkt of Abydos, between Cartouche No. 40 and No. 39, omita the XUIth, XIVH, XVth, XFIth, and XVIIth Manethocian dynasties, thus jumping oter the entire Hytoor-period, (395)

[^217]had marked a new ern in the chronological consideration to be awerded to ocme royel gensalogical Tablets. This discovery was by far the most important featare of that day; but so varied and unforeseen were the victorious achievements effeated, in the year 1848, by the Prusialan Scientific Misaion, among the pyramide, from Memphin to the Labyrinth; so completely bave they revolutionized all preoeding judgmenta opon Nilotic antiquity; that we mast pause to indicate how they originated, and where they are to be found.

Chevalier Richard Lepains, long oelebrated as Corresponding Becretury of the Inutituto of Archaological Correopetadencs at Boma, dreeted his studied into Egyptology soon attor the publication of a prise-essen, (998) that pleoed him in the front rank of lingaistical soholership in 1884. A Lettre d $M$. $L$ Prof. Fippolito Rovellini ovr I Alphabet Hífrogbyphique, 1887, (397) nert annoonced, to the world of ecience, that the loes of the illastrious Champollion had but momentarily errested the onwerd maroh of his disoiples. The returs of Perring from Egypt after his indefatigtble oxploration of 89 pyramide, (898) frandered the faot generally known that, immanse at had been his own bucoeseer, the neoropolis of Momphis had, notrithetending acarcely begun to yield up its historionl treasurea Frenoh and Tuscan national, with English private enterprise, had been remerded, In the ralloy of the Nile, by victories over patat time as noble as they were scientifle. It remslned for Frederic William IVth of Prussis to give fall soope to the hitherto pent-up yeundige of Germeng towards Egyptian diecovery; and upon Lepalus, in 1842, naturelly fell the mantres of his predecessors.

- With eight coedjators, the Chief of the Prussian Bcientifo Misalon pitobed bis tents in the shadow of the great Pyramid on the 8th of November, 1842.

By May, 1843, he wea enabled to announce that the Germans had gleaned the sites of "thirty other pyramid, eatiraly unknown to him (Mr. Perring), or to any preoeding travellersOf these, not a few are of very considerable extent, bearing evident traces of the ruode in which they were raised, and surrounded by the rains of temples, and extensive fleldg of tombe or burial-grounds. All these pyramids, without exception, belong to the anciant kingdem of Egypt before the imruption of the Hykshos, who inveded Lower Egypt about the year 2000 в. c., and the whole of them were erected (those at least between Abroroodsh and Dashoor) by kinga who reigned at Mornphis. To the same period belong also the majority of the effaced tombs, of bny importance, thet eurround them." (859)

After detarmination of the aitel, and unfolding mach of the history of "sizty-seven pyrtmide," eepalehres of ancient Egypten sovereigns; together with "one hundred and thimy prinete tombs" of noble families, whe these sovereigas coetaneous, back to the "fowth thouland year before Christ," the Prussians proceeded op the river; exploring every foot of groand, es far as Soba on the Blae Nile (Bahr-eh-Azrek), and Soendr to the 18th degret of N. Istitude ; retarning to Thebes on the 2 d November, 1844 . While his able sesiotants prosecuted the necessery labers amid Theban rains, Lepsive croseed the Red Sea and explored the Binaic Peninguls; not only, thereby, rescring from perdition hieroglyphiesal recorda of mining operstions conducted betweon the IVth end the XIIth dynesty, 8400-2200 日. 0., but also secertaining thet, if the Gebel Serbdl be not the Mount of Mosre, of wioh there is litue doubt, ( 400 ) the peaks above the Convent of At. Catherine most essurediy are not Revisiting Thebea, Lepsion left it with ble party on the 16th May, 1846: and after examIniog the Iand of Gosken, mach of Paleatlne, and touching at Smyras and Constantinople, fanded st Trieste on the 5th January, 184B: baving epent abeve thirty-siz monthe in unparalleled monumental researches on the river, allavium, and deserts of the Nile.

The reader will now porceive that we are dealing in realities; that our Egyptian deducthens are besed upon sctual and poadtive researches, made by the "primi inter pares" of

[^218]living Arehrologists, prerlously qualifed by lengthened diselpline, and furnished by mandficent governments with facilities as unexampled as unboonded. We subjoin a list of the works (401) eince published by Lepsius, thet have been carefally consulted in the preparetion of "Types of Mankind;" and mey mextion that, while one of its authors sojourned at Berlin in May, 1849, both are in frequent epiatolary comonunjeation, on the themes this work discasses, with the eateemed Chovalier himeelf.

Consequently, whether the deductions drawn by the anthors of the present volume be right or wrong, the facta opon which these ars grounded are rouched for by the bighest authorities No attention is bestowed, in "Types of Mantind," to the puerilities of the ephemeral touriat, wo the twaddling inevitien of the unlettared missionary, or to the Egyptian hallocinations of the theological rhapsodiat At the present day (rithout disparagement to the lesn-cnown literary resources of other cities on our continent), ( 402 ) a qualified student, in this year A. D. 1858, can sit down quietly at Mobile, Alabame; and the books contained in four private librarias will enlighten him, opon almont every point our work discusses, with amaller trouble and greater economy of time, labor, and money, than if he reaided for yeara, without previoun knowledge of these warks, in the malley of the Nile: or, should such studeat prefer Philadelphia, there, at her Library, his btbliothesel aspirstions can bo astivfied.

How utiorly hopelose it is for any men (apart from aradition) aneupported by enormona pecuniary mesan, to advance Figyptian sciences, st the present day, by i steam-boat excursion up the Nile, may be inferred from three facts. In 1844-5, Ampere, one of the living lomiseries of erohrological knowledge, was sent out by the Pronch Oovennent expressly to make discoveries. His "Recherohes en Eggpte of en Nubie" in literary excellence are unsurpassable; yet, withal, his predecessors had lef him no little to do, without a protracted sojourn, that he refers to Lepsius for evary novelty discoversble:-
"Je g'ai pas touché, smos un certain respect, ce livre des Roi, commenof par lai arant son voyage d'Egypte, ot qui contient une colleotion de, noms royaux plas complete qu'macume autre pe peut l'étre, ot un enserable de chronologie Egyptionde depuis l'ancien rai Mente jusqu's Septime Severe. Cette aérie ra plus loin encore, car M. Lepsius ne s'arrete pas a ce nom, le dernier qu'enesent trouvé écrit en hí́roglyphes Champollion et bes antres auccoseeurs. M. Lepains a été assez heureax ponr déconvir, deas un petit temple do Theben où Chempollion avait troavé le nom d'Othon, les nome de Gabba, de Pescennius Niger, et, ce qui est plua important, de l'ompereur Dita. Par catte deoonverte, M. Lepsjes prolonge la ếrie hiêroglyphique d'un demi-sièale an déla do Soptime Bevere, où elle a'arr̂́vit juequ' ici. On a donc une suite de monmment et d'inseriptions gui s'thendent depusis 2500 avart $\boldsymbol{A}$ braham jungu'd 250 ant apris Jerur Chrinh. In n'y a rien do aemblable dens lea annaleo bamaines." (408)

Two years previousiy, Prisge d'Avennea bad resoued the Anceatral Chamber of Karnac, the Tablet of Ramses XIV, (404) and other precious relics, from Turkish demolition. A reaidence of sixteen years in Egyph of which about five In the Upper country among the monaments, had easbled this proficient Orientalist to fill bis portfolios with every archsoological ilem discovered, ahiefy too by himeelf, between the departare of the French and Tracan Scientifo Commikaions ander Champollion and Hosellini, 1880, and the advent of the Prusains in 1842. So valusble were M. Prisse's self-sacrificing labors in Egyptology







 to redterals hir obligation - and of another to the Phlledelphis Uberg. Altogether, he bas men the plater Sown to Abet. III., BL 172

 have been drewn.



deemed by Pariejan science that, at national expenae, he was appointed to continue the great folios of Chmpollion; (405) at the same time that his contribations to the Recue Archeologigue are atandard dncuments for posterity.

Lest though not least, in Egypt itself residen a gentleman, afluent and influential, versed in many branobes of ancient lore as thoroughly as 80 yeara of dnmicile bsye familiarized him with modern effitirg, who never allows an opportanity of edvancing archmological acience to eseape him; nor will any Egyptian stndent mistake our allasions to A. C. Harris. (406)

No clap-trap pretensions to acquaintance with hieroglyphical arcana recently made by theologers who speak not any continental tongue throngh which alone these subjects arc accessible-no "ed onptandum" Agments of the porsession of Oriental knowledge when men caonot spell a monogyllable written in the Hebrew alphabet - detract from the Memphite exhomstions conducted at French ministerisl expense by a Mariette; for whose enormous discoveries in the Serapetm, as yot confined to reports, we wait impatiendy. 'T were well if, in riew of the contemptnous silence with which Egyptologists treat their publications, soms writers on these mathers were to become readers.

Our part, however, is to iodicate to the reader those sources upon which Egyptian chronology is dependent at the present day, in regard to the date of the first Pharsoh, Menes: a personage considered, in the subjoined works, to be bisiorical; and neither connected with the mythical Mestraans invented by the Byncellua (407) in the seventh centary after c. : nor, except nationally, with the MTaRIM (not Mizraïm) of the Hebrew Text, whom, in our examination of Xth Genesig, we have proved wo bething more or less than the " Egyptians," inhehitants of MiZR, Mus'r; the Semitic name of "Merter," Egypt [mpra, p. 494]: -


The views of the anthors of Typer of Mankind, while with Homboldt, (408) for ressons to be given anon, they follow Lepsius, incline to the longer rather than to the shorter periou. Ampere's opinion has been previonsly cited. The following is that of the first hierologist of France, Count Em. de Rouge, Conservator at the Louvre Mnbenm: -
${ }^{4}$ Les efforls do M. de Bnasen sersient la meilleure preupe du contraire; apres avoir. onns égard pour l'bistoire et les monumens, supposé des regnes conetamment collateraux, trois dynasties a la fois et hait on dix rois simultanes pendant la moitió des 12 premierea dynastien, il n'en fire pas moins le règre de Menes a l'en 8643 av. J. C. L'obstiné fle de Chamacan, mntilés aree aobarnement pendant 8 volomes, ge releve enfin de ce lit de Procuste où l'avait étendu son critique impitoyable, et l'on e'spperçoit alors qu'il dépasse eacore de plu-

[^219]sieurs siecleb lea mearea qu'on lui arait imposees au pom dea calcula que in cbronologis ordinaire svait fondés aur is gmealogie d'Abraham." (409)

We moreover coincide entirely in the same author's doctrine, when, after indicating the prious chances of miscaloulation inherent in Egyptian no less than in at other chrosologies, he decleras: -
"These causes of error, which crose euch other in everg dilrotion, mako up a lerge part of uncertainty, for any obronological sum that it may be wished to draw from the sole addition of relgas, after a number of oeaturies at all considerable. The chances of inexactitude augment with the number of partial sums; and I have always thought that an anoerititude of more than 200 yeara man very admissible, in the ciphers that result from monumectel dates combined with the lists of Menetho, when one remoants to the XVILIth dynasty, after the expulaian of the shepherids." (410)
Nor need any doubt be entertained upon De Rouge's adoption of the most lengthy ehronology, when he declares eleowhere - "Were we to accept the date most clearly preserved in Manetho, the XIIth dypesty must have preceded the Christian ere by fhiry-four centuries."(411)
We have already aeen that, in Ragland, the profoandeet hieroglyphical acholar, Birch of the British Nuseam, tabalates Manothonian dynastiea in their serial order, but withoat encambering his monumental discoveries with any arithmetion chronology. Kenrick follaws Lepaing. Rinck's former depreasion of the reign of Ramees II., in the XVIIth dynasty, and of Thotmes III. to the year 1866 s. c., on the ground that Egyptina armies (born amidst solar calorica) avoided the heat of the weather, (412) was an argument too feeble to be seriously combated; but the matured judgment of this univeral gayant furore every scientifical extension demended for Nilocio annas.
"A stalement has been preserved, to which I sto now inclined to attach more credit than I did formerly, that the Egyptians reokoned all the dynasties from Menes to Ochus as ocerpying 8555 yesr. If from this number we subtuct 2291, Wbich the Egyptisns reckoned from Menes to the end of the XIIth dynasty, we have 1264 from the end of the XIIth djasaty to Ochus, or to 840 н. c. This Fould place the XIIth dynasty between the limits 1817 and 1604 a.c.; and I am disposed to accept these dates as the genuine Egyptian compulation. Nor indeed do I see much ramson to question their correctnems."

Followera ourselves "of the German and Prench ichool," we pause not to debate the learned Irishman's deductions as to auch an untenably modern date for the XIILh djoasty; hut, adding his accepted 3555 yeart to the reign of Ocbas, , e. c. 840 , wo are gretified in foding that Dr. Hincks, (418) with several Germans and Frenchmen, places Meses at 8896 years before c.; and benceforward, therefore, can enrol, as we have alreads, his great namo among the long chronologista.
On the opposite side, as represeniative of the shortest Egyptian compantion, standa a gentieman, whose vast clasaical erudition, and keener criticiem, we are aiwsys proud to acknowledge; and it is with pain that, having so often availed ourselves of his ingtructive pages, especially in regard to biblical history and exegesis, that, in Egyptinn chronology. we must protest againgt the tontracted aytem of a graat Hellenist, Xr. Samoel Sharpa. With respectiul deference we would, however, submit objections to his assamed datee for Osirtesen, vhom he arhitrarily changes into an " $\Delta$ munmai Thor I.;" (414) ntill more empbaticelly to hie views upon Mener Scientific criticism, to be practicaligy asefol, mast be free; and pupils, often, of Mr. Sharpe in its application to the Greek Nec Testamen, and to the theosaphical notions of the Alexandria School, we feel persuaded that no writer of the day loves truth more tban himaeir. We may therefore utter our mode of riewing it.

[^220]The contomporaneoumess of Egyptian dynastien（415）we have always repudiated；（416） but，until the appearsnce of Lepsiug＇s＂Hook of Kings，＂when our assent may possibly be gielded（if monuments to us now unknown establish it），io respeet to the Ist and IId，Vith and VIIth（VIIIth），Xth and XIth，XIIIth and XIVth，and XVth and XVIth，Manethonian dynasties，we shoald commit the same falleog，so frequently blamed in others，if we spoke dogmatically on that point withoat the now docements of the Prassian Riseion．There is no more foondation，however，for Mr．Sharpe＇s dynastic arrangement than wore we to make Canute＇s invasion of Englend coeval with Fillian the Conqueror in the reign of James I．，under the aypthronic bway of Grosaz III and the Prince Regent．It is a favorite hypothesis of his own；in which not an Egyptologist coincides．But for the expo－ surt of a radical error in Mr ．Sharpe＇s aystem－root of all his deviations from hierolagical practice－our knife most be applied to one of ita many rital spota．In his immenaly－ valumblo folie platen，（417）throagb inadvertenoy，he had reed

$$
\text { 中 } n f_{\mathrm{r}}(418) \text { the " lute," theorbe, in lieu of } \int \mu_{( }(419) \text { the " blede of an oar," }
$$

es the scalptare stands．Through misapprehension of the groups（in line 9 compared with line 2，of the same inscription），Mr．Sharpe than deemed that this malcopied aigp＂nfr＂ was the homophone of

$$
\int b_{1}(420) \text { the "haman leg :" }
$$

and，In consequence，he always reads＂nfr＂as if it were the latter articulation－＂That the arrow－shaped character is rightly sounded $\mathbf{B}$ or $\mathbf{V}$ is proved by ita $\approx d$ dmitting that sound in the above four names， $\mathbf{a s}$ also in No． 160 and No．165．＂（421）The extraordinary meta－ morphoses of wetl－known royal namos which this misoonception，founded apon a mistake， has occasioned，are too evident to the hierologist to require comment．Enfortunately， through such concatenation of fallacies，Mr．Sharpe（422）transmutes the prenomen of Queen AMENSeT，（428）and the nomen of this queen＇s hnaband AMENBMHA，（424）and the oval of MENKERA，（445）into a fabalonaly bisexual＂Mychera－Amnn Neitchori＂一 roils ap the IVth，VIth，and XVIIIth dyvasties into one－and thus makes the ad pyramid of Geezeh（b．c．3300）contemporary with the majestic obeliek（ $\mathbf{1 .}$ ．©．1600）in the temple of Karase！It is as if oue were to call Ederad the Confasor the amme pertorage as＂Vic－ poris and Acbebt；＂and then to ingist that the former＇s tomb in Westminster Abhey must be cocoal with the equestrinn statue of Wrlinnatos at Hyde Park corner！（426）

Mr．Sharpe＇s restricted syatem of Egyptian chronologg，for times saterior to Thothmosis 1I．（placed by him in the 14th centary s． 0 ．），may now he considered as＂non－avenu．＂ Bat，while compelled to shatter its superstructures down to his XVIIIth dyasety，let no ons impate to us leck of respect for the profonad author of the＂History of Egypt＂一s work that（from page 80 to 592）ever has our warmeat admiration．Contenders for the longest

[^221]human chronology ourselves, it is imperative apon us to asty the outworks of tralyerudito ahort-ohronologista before atorming their last Engligh ciladei: a facile erploit mow to be performed.

> "The thintie that was in Letenon
> gent to the oedar that toose in Lehanon
> Bayling, 'Glivo thy dangbter to my mon ما With':

$$
\begin{aligned}
& \text { And trode dawn the thate." (3 Eingo Ifv. 9.) }
\end{aligned}
$$

On the part of one of the anthors of "Typer of Menkiod," old Nilotio essocistions - on that of the other, conviotions of the seientific worthlesaness of Hors Earpriace, (427) have, for two years, reatrained both of them from printed notice of this production: and, if now they coqjoin to chant ite requiern, the necossity is superindinced, on one land, by a denire to rindioste Egyptology; on another, the deed bas been featened npon the Friter indifidually by the incepeant officiousness of theologers in the United Sinter, in local obtrasions uncalled-for, and in appeals continual to the illasory authority of an adoleacent soholer.

It hes been already ohown [supra, p, 770] bow Mr. Filkineon, in 1835, hed obliterated, with a dash of his pen, all the "unplaced kings" he had proviously published; (428) and had cut down the era of Masse to the year $\quad$. $c .2201$, "for fear of intefering with the delage" Daring twelve years, Sir Gardner Wilkinson compasaionately refrained from diluvial intorference ; but, from 1837 (429) to 1847, (430) be made a retrocession of Menrs, on a sliding acale, to the year b. c. 2320 ; thereby plecing this anfortanate king amid the paludic mias mate (he wia killed by a hippopotarnus) consequent opon that grand eatastrophe - oniy tucenty-aight yeara after Arehbighop Usher's cateclyam, with which the gallant Knight scropled ta interfere.

The consequeace wes, that, for twelve years, no hierologist thought it incombent apoat him to quote Wilkinson in metters of chronology; even if acientifio justice toward the latter's innumersble Egyptian diseoveries occasionally induced Egyptologists to cite emost eradite anthor notoriously ohary of mentioning the labors of continantal contomporaries. (481)

Salitude, however, in time becomen tiremome even to an anchorite. Between the years 1835 and 1847, the hound made by Egyptian atadies wes enormous. Lopsius, followed by the whole achool of Champolliomisth, bad discovered the XILth dyaty of Havetho; (432) and the XVI-XVIIth dyoastic arrengement of Rasellini, ahandoned by every other scholer, surrived, in 1847, through Wilkingon's Hand-book alone. It became desirsble, therefora, to "Wear abip" in the smoke of Cairo, and to reappear to windward on the other teck; just as if the galleat Knight had been sailing in line with Nanetho's XIlth dynasty all the time! A "cst's paw" of breeze, nevertheless, was requisite for these nantical evotations, and Hora Exgyptiace kindly wafled it over seas to the Loddod "Literary Gazette."
"And I think this conjectare," wrots the aathor of Horce, (488) "strengtheoed by the fact, that Sir G. Wikineon has fouod with the name of Phiops (Pepi) a king's name, Thich I believe he agrees with me in considering sa that of Othoes, the first king of the Yith dynasty." " And this explanation is most strikingly confirmed by a fuct [known 14 years previously (484) to every reader of Rosellini!], of which some very romarkable instancea are found in some of the unpublished papers of Sir Gardner Wilkinson, which he has kindly shown me, as well as in some of his published works; that in numerons eculptures

[^222]in Nabia, we find kings of the XVIfith cionsty worshipping Sesertegen [Wilkinson always Mrote "Osirtasen"] lIIt. as a god."(435) - "I was unable to find it [Hor-cm-bai.'] duriag my luat visit to Thebes, owing to its but once occurring, and to the great extent of the tomh; and I have to thank Sir Gardner Wilkinson in giving me a copy of it."(436)- "I must express my obligations to Sir Gardner Wilkinson, for his having greatly promoted these invertigations, during his last vigit to Egypt, in discussing with me every point of importance in the first four numbers (all I had then written), woll as for the lindeess and liberality whioh he showed me in allowing me to exsmise and copy many of his uppublished transcripts from Egyptian monuments."(437)
These meritorious acknowledgments were due to the paternal nolicitude with which the gulhat Knight had wstched at Calro over Horce. Neverthelebs, expostulations were addressed from London to its anthor sbout the sappression of the unmes of so many other fellowlaborers; as well throagh private channela, as also binted, in publio sestion, before the "Eyro-Egyptian Society." (488)

Years passed swig. The 12 ertiales entutled Hora Sgypticoc, originally published in the "Litersry Gasette," having received unparalleled sid from the highest quariers, rapppear, considersbly sltered, in a beantiful octavo.
We read first Bir J. Gardner Wilkinson's endorsement of Hora : (489) -
"It is indeed the lesa necescary to enter into a detailed exsminstion of the chronology, and the succession of the Phareohs, os Mr. Stuart Poole's work on the subject will boon be pablished; snd I have much plesaure in stating how fully I agree with him in the contemporaneouspess of certain tinge, and in the order of anccession he gives to the early Pharwohs."
Gecondly, we admire Hore's re-andorsement of Sir Gardner Wilkinson : (440) -
" $I$ bsve avoided, as much as possible, quoting or examining the works of others, exeqpting Sir Gardner Wilkinson. My object ban been to explain what $I$ learned from the monumenta; not 10 combat the aseertions of others. Sir Gerdner Wilkipson atands in a parition different from that of any othors who bave written on the subject; be has never written to sapport a chronological bypothesis ['in order not to interfere with the Deluge,' supra], and in entitled to the otmost confidence on account of his welf-known accornoy, the many yeara Which be has apent in the stady of the monuments in Egypt, and the catution which he has thown in refreining from putting forth any complete system of Egyptian chronology: $I$ am eware how greatly $I$ disagree with all others who have written on this subject ; but it is a sufficient consolation to me, since all differ, that it is litule more to differ from all others than to differ from all of them bat one.' (441)

Thirdly, Sir Gardner Wilkinson again endorses Hore : (442) -
"And the contemporaneousness of others [kings-entirely arbitrary'] bave been very ingeniously and satisfactorily explained by Mr. Stusit Poole, in his Hore Egyptiaca; where he coknowledges that it was first suggeated to him by Mr. Lapo. That arrangement may be seen in the following table, which he har obligingly communicated, and which 1 have the more pleasure in inserting, as $I$ agres with him in the contemporaneouaness of the kings, and in the general mode of erranging those of the same line."

Fourthly, Thi Frised or Moses endorses hoth : -
" Bo complete and astiafactory is the train of evidence eddaced by Mr. Poole, that Sir J. O. Wikinson, one of the moet learned of living men, in all that relates to Egyptian arohmology, has openly published in bis Last grest work on the Architectura of Egypt, his entire conourrence in the viewa of Mr. Pcole, sad his conviction of the complete and satiafactory character of the erideces that gentleman has adduced from the monamenta." (448)

Ever and anon, after reitarating this endorsement, the same Friznd or Moses adda in Italics: -
"Ry3pt, with all her splendid Monsments, is fourd $\sigma$ witness [as much an and not leas than Apitabergen] to the truth of the Bible, and to the correciness ["credst Juderas Apella!"] of the Moacic ehronology. . . . These conoestions of the Chevalier Bunten prepare ng $t \boldsymbol{r}$ receive with greater coofidence the rtatements of Mr. R. B. Poole, in his Horce AEgypiaca, clelming to addace proofs from the monuments themeetres, that aeveral of the dynesies which

[^223]have been generally represented as ouccessive were actanlly contemporaneous, as e. g. the twelfh and the fith [!]; and that thus, the monomental bistory of Egypt covers not a period of duration beyond what may be readily reeonelled with [poor Moses!] the Mosale chronology as given in the Septuagint. A conolusion, to the accurtey of which, Sir J. O. Wilkingon ha iffixed the esnotion of his grest name in these matters" (444)

The Fbind or Mosis acon efter becomes myatified: -
"I becnme moquainted with eeveral genclemen of distinction in the leartied world... Mr. K. 8. Poole, a bold writer on Egyptian ohronology."(445)

## He dext aesures as:-

"I have carefully compared the copien taken by Champollion in all these tornbe ayd tamplet, from the aecond Cataract to Thebes, and I have collated his hierogl pphics, line by bive [this is the more miraculous, as it whe performed between Alerandria, Nov. I2, and Cairo, Feb. 14-after going up the Nile, 1200 miles, to Samneh; and retaraing, 1050 miles, to Cairo! J, and character by character, with the originsis. . . There is a magnifioent orror bomewherothongh $I$ am not propared [!] to point out where ; nor bow precisely it may be detected and exposed. Of one thing $I$ am astiafled - that Eir J. G. Wilkioson, and my kind yougy friend, Mr. R. 8. Poole, of the Britigh Maseum, are much nearer the trath, in their chronology, thad is Dr. Lepalus, or the Chavelier Bunsen." (446)

The scientifle reader now comprehends our local atination, and will oompassionately forgive the inhumanitien which such every-day offercen compel minally to perform. "La jer ae vant pas le chandelle;" alse we would at once refute Hora Eypticoc, page by page, and bieroglyphic by hleroglyphic; in the interpretation of which lest the juvenile eathor (or Bir O. Wilkineon) has copmitted blonders as egregions se they are maltiform-altogether unpardonable in the motad etate of bierologg. For the present, our criticiama ahnll be ohiefly confined to the pablication of "three fragments," apon the principles of a worlsrenowned manter, Letronine. (447) They are from the bigheat Egyptologiste in Earope; two of them in epistles to the exthors; one already in print.

## First Extract. (448)

"I bave nothing to asy about the book of Pooln, if not that I regard it as a juvenile and sufficiently-pretentions easay, written withont canstienionasess, and dangerous rather to the thoalogians than to sclence."

## Second Bztrach (448)

"Not one of its followers an rand three lines of hioroglyphics correelly. The O. P. Y. ( 460 ) and G. P. M. (451) are only in the mind of the anthor. Exsmined by the mioroscope of philology, all venishea into a few nnimportant observations - for arample;

of the Grat Panegytical Year ; bat merely


The consequence is that this axpresion does not fx the age of Cater (builder of the great pyramid]. The "7th
 seven smat, or periodo-manth, I belieye that the obeliak $F$ is the quarry. Hence the vhale oyclieal part is a delosion; and all the inferences are nil. The reat of the book is $A$ atring of hypotheseas - Whare there ere not actual misepprehension."

Third Extract (458)
"Mr. Poole in of the number of those young workmen who deserve that oue should tall them the whole trath. Eithar be has not read what reoent aroheologisie have writtem

[^224]upon this subject, which would bo inexeasable; or he has road them and does not cite them, which woald be still more grave. I bave not road the name of Lepsius a single time in his book, in respect to all these queations oo lengchily treated in the Introduction to Chronology [Berlin, 1848-9] . . . Not content with this diseovery [riz., the imaginary Panegyricel Months) M. Poole thinks also to find other new oyelea, with the dates which refer to them. I confess that it has been impossible for me to comprehend how, in the presence of pretensions so important, Mr. Poole has not deemed himself obliged to prove the truth of his allegations, by minutely anslyzing the inscriptions which be alleges. Far from that, he contents himself with indicating them, and sometimes eren withont producing their text in bis plates. One cannot lean upon an Bxyptian inacription, as upon a pasasge of Titus Livias, without new explamation, and I will frankly say that I believe in none of the oyclas and in none of the dates of Mr. Poole. .. It is evident that in than handling the ciphers, without controlling their significstion and the manner in which they are introduced juto the inseriptions, one may end in imagining all the periods that ooe wishos, and in giving them a certain sppearance of troth to the eyes of persons who can discuas but the results. A work thus based mrast pasa for non-cueren."
But after all, Hores has no "fear of intorfering with the Doluge;" wo the work becomes only another thorn in the side of orthodoxy. Mr. Wilkinson (1895, rupra), devoutly following archbistop Uarize and the margin of king Jama's oorion, asya the date of the Flood "is 2848 g. c." In its author's frat arlicles, Horo had deciered--
"The date of the accession of Menea, the first king of Egypt, la probably that of the commencement of the frat grest papegrical year and first onpital year. Eratonthenef and Josephus [say, modern complyatory on these ancient Friterst] place his scoession somewhat later-namely, about 2800 yeara n. c., instead of 2715. The history of the 1st, 2d, 8 d , 4th, and 5th dynasties (of the IV-Vth dyaasties, Lapsiva found the amplest detaila, while the author of Hore dwelt only 15 miles off, at Cairo!] is but scantily fornished us by Manetho and the monaments, and the latter give us but one date [and that fabolous !], that of the commencement of what I have called the recond great panegyrical year in the time of Suphis L. the builder of the great pyramid, and second king of Manotho's fourth dynasty, n. c. 2350." (464)
Hore thus fixed the bailding of the great pyramid two yeara before Wikingon's Doluge; and set Mrxes on the throne, in Egypt, 867 yeara before the asme anthority's catastrophe. But, it wse promptly showd, that Hora, in aeleoting the year B. c. 2715 for Masis, had merely stolen another man'a thander (455) ; wherefore, when its anthor came to repriat those twelve articies in an octavo volume, te so tranglated his hieroglyphion, astronomically, as to obtain two gears' differencel - "The commencement of the great panegyrical yesr which preceded that of the Euphisen, $I$ have already shown to be in the year в. c. 2717 " (456); and then he informs ua that "the Septangiat chronology dates the Dirpertion of Mankind ahout the jeer n.c. 2758 ; that is, about 41 jears before the ers of Menes"!
Compuiations upon the different copies of the LXX, every one of them as rotten as the MSS. themselves, cause the Creation to fluctuate between B. o. 5904, and B. c. 5054 . (467) And the sbove soatence merely shows its pentan's insompetenoy to disouns Soptuagins questions. To the reader of our dlaqualaition on Xth Generi [PeLeG, repra, p. 645], the following specimens of Horc'a biblioal knowledge will be amusing; as madh as, to use ite author's favorite adjective, the latter's oredulity is "remarkable": -
"I therefore believe that the Vagre year was instituted in the time of Noah; probably by Ham [!] not by Noah...$I I$ have only to notice one other jmportant epoch of Bible history - - the disperrion of nations. The dirision [read "split"] of the ourth is indicated as haviog occurred at the birth of Peleg [s "split"]; when we are told, (Gen. 1, 25), - anto Eher were born twa sons; the name of the one (was) Peleg (or division); for in his days was the earth divided' [Vide supra, what the Hebrew writer masatt] Now, it wes a common custom of Hebrewe to name their children from ciroumetancee which occurred at their birth; and the custom of ancient Arabs was precisely the same, end bes continned to the present day. Wo cannot reckon ns exceptions to this the fou cases where God changed a name, or imposed a new one; and in the latter cane the old name was retainod with the new one [!]. The birth of Peleg, according to Dr. Hales, hsppened e. c. 2764;

[^225]but, calculated from my bate of the Exodus, s. c. $2758 . "(4 \overline{0} 8)-$ " $I$ sey that the Pharaoh of the Exodus reigned undoubtedly not more than about one year; for, although his being drowned in the Red Sea is not expreasly menLioned by Mones, it is so mentioned io the 136th Paalm [what a clinching argument!], and $I$ hold wl the books of the Bible to be equally troe."(459).

It is to be deplored thet, after being promoted for his Hebraism to a post in the British Mesenm, "my kind young friend," as the Fhiand of Mosea affectionately terms him, should heve expanged thene delightful eamplea of pions feeling from the ropuhlication of Hore in its cotsvo form. So imhued, we febr, is he likely to beoome in that enlightened institution with self-immolating priaciples, that it would not surprise us to learn through newapapars that Horce likerise- as Scaliape says, "ut signatius loquar"-for the sake of Oriental literstare were to turn Hohammedan.

No inclination remains to follow Hora's farthing-rugh-lightany forther. We leave the pupil for the leacher, when we here exhibit on the margin - table printed by Wingingox in the pamphlet-text accompanying the latter's truly-valushle contribation to brchaological science - The fragments of the Hieratic Papyrth at Turin: containing the names of Bgyption Kings, with the Hieratic inveription at the back.

Here is that "magaificent error" which the Fitind or Moars could not discover by going to Egypt : -
"Respecting the oonstruction of the table, be observes: 'The relative positions and the lengths of most of these dynsaties are fonnded upon some kind of monumental authority. The rest $I$ have pleced within approximative extremes. There are several points of exact [!] contemporsneousnees, as in the 2nd and 4th and 5th dynasties. again in the 5 th and 15 th, and in the 9th and 11 th; and these, with other evidence of the amme nature, ensble us to adjust the geoeral scheme of all the dynselies.' " (480)

Reader! Suppose Chinese archatologish, with a little red butlon on his cap, were to come all the way from Pe-kin to Amerien, and tell us that good old king Eomert was a


[^226]mythe-that the consecative dyanaties of our common English father-land could fit no Hottentot's estimste of the chronology of John-Chinaman's sacred hook, the Chou-king; anless, -fer rejecting Boudices and Caractacus, we were to permit his rednotion of Danes, Saxons, Normane, Plantagenete, Lancontrians, Forkiles, Tudors, Stuarh, Orangites, Hanoverians, \&o.; together with all British, Scottish, and Irish, perioda of anarchy; not forgetting Cromwell and the Commonwealth; into one centery. Suppone that, after proving why every AngloSamon had erroneonaly claskified, as distinct, those perronages, epochas, and historical ereata, which the "Tribanals of Literature" of China had pronounced to be identica, the said mandarin were to ahow us bow beadifully the whole could be reduced, through electromagnetic typography, into one line of a table, and expresed aigebraically hy an $x$, reprosenting an infiniterimal fraction of a becond of Creative time. What ahould we say to His Exceliency "Uncle Joah"

Now, whatever the American reader might be pleased to hint to such Chinese madarin, would be attered in demotic tongue with "brutale franchise" by old Mantrino (could his mumny arise) to Sir Gardnar Wikinson, at the firet glance over the above table: where, in wilful dieregard of Leqormant, Champollion, Böckh, Baracchi, Bunsen, Henry, Lesueur, Lepsius, Hincky, Kenrick, Pickering. Ampère, De Rongé, Bircb, and of every hierologint past, present, and to come, the gallant Knight has made the IIId, IVth, VILh (VII), VIIIth Egyntion dynaties (consecutive in Manetho and, where mentioned, serial upon all mosuments), contemporaneous !-hns actuaily jammed eleven dynasties, VI, VII, VIII, IX, X, XI, XII, XIII, XIV, XV, XVI, into a apace ( 2200 a 1700 ) of 500 yeara ! And perpetrated, too, all these inexplicable vagaries with theological applause, when, by placing Mexes (Ist dynasty, Thinitet) at 2700 н. c., be ahows that valiant knighthood, in A. D. 1851, no longer creeps all over "for fear of inteffering with the Deinge of Nosh; which (wad) 2348 n. c." before an aspirant to ecclesiastical patronage bad won bis gilded spurs.

We dismiss, therefore, Hore Egyptiace as beneath avientifo notice, reserving to ourseives the privilege of a reviewer's criticism, whenever circumstances may demand its annihilation. With it we suap off the last pablished peg upon which short-ohronology can suspend its clerical hat; because Mr. Sharpe's arrangement of Egyptian dynasties anterior to the XVIIIth bas been reapectfully disposed of. When other writers, mith hieroglyphical handles to their patronymes, adventure into the rude arena of archmology as champions of short-chronography, may their armor be well tempered and their lances tough!

The list of long-chronologists, above given, comprehends the "preux chepaliers" of archmological acience at this dag. The minimum of their respective dates for Manss is g. c. 8643 ; the maximum approaches the 6 Lh chiliad e. o . By eact authority all bilical computations, Batecs, Samaritan, and Septuagint, are thrown aside among the rabbish of the thinge that were.
"The sum of all the dynasties varies according to our present bources from 4685 to 5049 years ; the number of kings from 800 to 850 , and even 500 . It is eridently imposeible to found a chronology on such a basis, but Syacellus cells us that the number of generelions fncluded in the 80 dynasties was, according to Manetho, 118; sad the whole number of yeara, 8565. This namber filis much short of what the summation of the reigns would furnish eccording to any reading of the numbers, but is nearly the same sa 118 generations would produce, at any average of 82 yeara erch." (461)
Fifteen yeara ago, the learned ethnographer, De Brotonne, reasoning apon this very namber, " 8566 de Nanethon," obtained n. c. 3901 as "le chiffre le moins efere" for Mensa. (462)
To neither of the present writers have thase resalts been unknown :-
"On my return to Cairo [April, 1840, from a royage with Mr. Harris to the aecond cataract], I devoted a tweivemonth's leisure to the verification of the solidity of the basis upon which hieroglyphical revelations bad placed Egyptian monumental chronology. The reault wes a conviction as profound then, sa sabsequent researches,-echoed by the voice of oniversal eradition, and embodied in the works of a host of savans whose nemes gidd the
brightest page Hlaminated by seience in the XIXth century,-bsye since demonstrated ita nocuracy, of the utter impossibility of reconciling Egyptian factr, geologieal, topogrephicel, ethnolagieal, hieroglyphical, and historical, with Archbighop Usher's eysiera of patriarehal chranology.
"A manuscrít compilation, orer which an old and ralued colleague, M. Prisse, and myself wiled away at Cairo many delightful week in reciprocsl exchanges of onr several gleanings, under the title of "Analects Hieroglyphica," condensed every cartozche, with refereaces to most of the historicsl monuments, known to hierologists up to April, 1841; end, as many personal friends are avare, this manoscript is etill a most important groundiect and manual to those who, like myself, are anxious to ascertain the stability of prior inveatigations, before bararding the erection of a theoretical ouperstructure." (468)

What, then, is the present state of scientific opinion on the ers of Mrxs: The reader has it before him in the list on p. 682; and, withont perplexing himself with pain apeculations founded upoc ignorance of the stapendous materiale transferred from Eggit to Berlin by the Prusaian Mission, let him do me we, anait paliently for the pablicetion, hourly dae, of Lepsius'e "Book of Kingt." The authore may be pardoned when stating that, in books, manascript-notes, and epistolary commanications from Egypt, Italy, France, Germany, and England, they probsbly possess as much apecific and detailed information hero at Mobile, on Eggptian monumental chronology, ee most men in the world, lese a doron European bierologists - with whom they are in agreeable accord. When, therefore, they put forward no dograstioal syatem of their own, hut wait for the "Book of Kinge," they ect themselves in sccordsace with the couasel offered to fellow-ioquirers. Should Lepsius's Work resch their hends befora the issue of the present volums, asyopsia of ite chronclogy will be mppended to oar easay. We may also look forvard to Biot, the echolarlike antronomer of France, for a profound inveatigation of the attronomical date, revealed by Egyptien monamenis, in tbeir relations to mundene chronology ; (464) which will sapersede any future recorrence to the cyclic reveries of such youthful star-gasere as Horte.

8hould, however, a qualified stadent desirs to prepare himself for thorough matery of Lepsins's "Book of Kings," he should commence with Rosellini's Monumenti Starici; and, thet being fundamentally aequired, his next guide is Bansen, Agyptens Stelle in der Walgeachichte; wherein moat of the royal Egsptian natnes, discovered up to 1848 , are compared with the clastical lists, and in which the grand alleration produced by Lepsina's resuscitetion of the XIIth dynanty (waknown to the lamented Pisen Professor, or, in 1817, to Pritkinson), is abundently set forth. "There is no rogal road to the mathematies," nor is there a straighter path to the comprehension of Eggptian chronalogy than the one we indicate; but, after these two workn, the stady of Lapaius, Chronologis der Algypter, "Einleitung, 1849," beeomes imperative.

Such reader will appreciste the general correctness of the following method of rerifying, archeologicsily, the progressive layers in which Egyptian history stretches backwarde from the Christian era, assumed at 1858 years ago: antil the unknown-commenemmenta of Filolio homanity merge into an ondsted, but ante-alluvisl, period of geology. (465)

We giadly borrow the firet pointa of departare, in our jouncy from the Chrigtian ere bekward, frow Sherpe (496): -
"The reigna of Ptolemy, of Darius, of Cambyses, and of Tirhatah are fixed by the Babylonian eclipees. Hophra and Shithank are fixed because they are mentioned in the Oid Testament, since the length of the Jowish reigne, after 8olomon, is well tnown, whle those Jewish dates are themselires fired by the earliest of the Bebylonian eolipses in the reign of Tirhakah. Thus are fixed [by Mr. Sbarpe] in the Table of Chronology the dynastiea of Baia, Ethiopia, and Babantis. Petobeatea lived in the first Olympind; thin fires the dynasties of Tanis."

Thus, king by king, and event by event, we aseend with precision back to Alexander the Great, 日. a. 882; and thence, through the XXXLst, XXXth, XXIXth, XXVIIIth, XXFFIth,

[^227]XXVIth，XXVth，XXIVth，XXIIId EgFptian consecutive dynatioe，beck to sheghonk， Sbishal；，founder of the XXIId dynasty；who，conquering Jerasalem＂in the Vth year of king Rehobonm，＂（467）as is hieroglyphically recorded in Karreo，（488）enables us to estab－ lish a perfect aynahrosiam，between Egyptian and Judac history at b．c．97i－9．

Prior to this date，Egyptian monumenta nover once rofer to the Hebreos，thrownot a glimmer of light upon Jewioh annals；and with Sheshonk alno censes the posaibility of fixing any Pharah，to him anterior，within 6 or 10 years．Chronology，year by year，stopa in fact at в．C．972；as well in Israelitish as in Nilotio chronicles：although the foundation of Solomon＇s temple cannot bo far removed from घ．c． 1000.

Lesving Hohrew compatation to ascend along its own streasm，innumerable Epyptian doo－ uments－tablets，papyri，gereatogieal listh，publio and private，together with as antounding mass of collateral and circomatantial evidence，－carry un upward，through the XXIot， XXth，XIXth，and XVIIIth dynanties，reign by reign，and monument by monument，to Rumass I．（Ramesu）；whote epooh belongs to the－＿century 15th－18th 日．c．

Hero intervenea a poriod，though for a fev yeara only，of enarchy；represented in the Disk heresy，and by sundry royal claiments；at the head of whom stands Arabla－Rakhas， or Bex－m－aten；（489）talled hy Lepsius＂Amenophis IV．＂But upwend from his fachr＇s reign，Amenoph III，every king is know，with many events of their respeotive reigns， through hieroglyphical scolptureas and papyri，back to the beginning of the XVIth Theben dyonsty，in the reign of AAHMES，Amosis，l；compated，by Lepaius，to be about the year 1671 b．c．At this point，which beging the＂Restorstion，＂or＂New Empire，＂after the expaleion of the Fyknot，we lose the thresd of annmal chronology，for timea anterior to the 17th century，before 0 ．

We refrain from disonsaion of the Byksow，or ahepherd kiggs．（470）They are oupposed to ocenpy the XVIth and XVth dynaaties；and，sceording to Manetho，their duration covered 611 years of time．The XIVth dynasty has not beon disentangled clearly from the muti－ lated lista；and the hieroglyphical records have not yet apoken intelligibly，although they are numerons．Wa pause for Lepaius；and in the meanwhile refer the reeder for a bum－ mary of the monumental edifices of the Otd and the Nev Empires to his published traveln（471） To us at present this＂middle Empire＂is chaos；but，aven supposing the XIVth，XVth，and XVIth dynanties could，by a short－chronologist，be expunged from Egyplian records，it must be remembered，by long－chronologiata，that the XVIIth dyassty stands orect in the 17 th centary 日．c．We leave the＂middle Empire＇s＂duration to be adjusted along a sliding acale from zro opward；and next proceed to sbow that we possess above 1500 years of posicive monumeata，behind thin＂middle Empire，＂by which all Septuagint computations of the Deluge，at b．o． 3240 ，or 8146 ，or 8156 ，enconnter a＂reductio ad abaurdum．＂

The mista begin to clear off $n$ we commence ascanding to the ？stest representatives of the ＂Old Empire＂in the land of KhaM，Ham，Chemmis：viz．，the Sebakhetps and Nepherhetps of the XIIIth dynasty（472）：but，st the XIIth dynagty，the glories of the olden time hlaxe forth again efalgently；（478）thenks to Lepsian＇s investigutions of the Genealogical Papyrue of Turin．（474）

[^228]The hiaroglyphica! names of some of hese hings may be consolted in Bansen; but Fe borrow from Laptiva this table of the XIIth dynasty; which cannot become more than sligbtly modifed in his "Book of Eings." (475)
"The XIIta Manethonian Dynagty.


The XIIth dynasty onds, according to Lepsius, sbout в. c. 2124.
What relics are extant of XIth dynasty belong to the Enuantefe, (476) ineluding perhaps Ra-aub-Cheper, discovered lately by Mr. Herris.

Little can here be related about the Xth, IXth, VIIth, and VIIth dyareties, to be intelligible withont a lengthy argument; but the duration of this last is felicitously anggested by Maury. (477) Solid as a rock, bowever, fo the Vith dyansty; (478) so is the Fth on the Trein Papyrus and through the recovery of all its kings (hat one?) from the tombs opened by the Prussian Commiasion at Memphis. (479) Of the IVth the vestiges surpass belief, to persons who bave not opened the folio plates of Lapsius's Denkersler; wherein the petroglyphe of these three dynasties, earliest and greadest relice of antique humanity, are now presorted for posterity, so long as the prramids of Geeseh shall endure.

With the IIId dynasty Egyptian monnments cease. There is nothing extant of the IId, nor coeval with the Ist dynasty. Their existence in dedaced from the bigh state of the erth, and the oxteusive knowledgo.possessed by the denizens of the Nile, as demonstrated by the pyramids, sepulchres, and hieroglyphed records, of the IVth dynasty, compared with the fragmentary catalogues of Manetho and Erstosthenes, and expported by Ormoo-Homan tradition.

MENES-EEgpt's fret Pbarsoh - is recorded, in bieroglyphice carred, daring the 14th century b. c. at tio Theban Ramesium, by Ramses II. a bia earliest ancestor; and, in bierntic, on the Thrin Papyrus, a document written in the twelfth-fonrteenth century b. c., " king MeNai, of a firm life," is twice chronicled. (480)

By Lepsius, whose compulations we adopt, Nenes is estimated to have founded the Ist

"There is nothing incredible in auch an antiquity of the Egyptian monarchy."(481) Indead, long before hieroglyphical discoveries had demonstrated its nataral edaptation to all the circumstances of Egypt (when due sllownce is mado for preHenac chiliads of years for allavial existence), the researches of mathematicians bad pointed to similar retulto.
"On supposing the 11340 years of Herodotus, Laken for the Egyptian seasons of three moaths, we should bave 2794 golar years, according to Freres, and 2835 jears, according

[^229]to Bally. These finished st the reign of Sethos and with the war of Senasoherib, in the year 710 before 3. o. Following this bypothesis, the commencement of Menes fell about the year 3504 b. c., according to Freret; and in 8545 в. c., sceording to Beilly." (482)

Having thos indicated to junior atudente of Egyptian chronology the order in which they should read the works of our common seniors in this technics! apeciality of science, we will now reverse the process, and exhibit, from MENEB downward, the stratifications in which Time's hour-glass hes marked, historically, the congecntive events witnessed, during above forty-three centuries, by the Egyptinh "Type of Mankind" down to the 4th century after the Christian ers; assumed at 1858 yeara ago.

It is a convenient plan to group several portious of Egypt'm history into the following soparate masaes, tike the primery, seoondary, and tertary formations of our earth'a crast; and to rie $\overline{\text { a }}$ the dynastios, in those masaes included, as if they were so many discioct atrata contained in sach formations. We thereby divest the subjeot of the perplocities and dubioumpen of arithmetical chronology ; becsuse, the virl evistonoe of Menes, an an historical entity, is no more depondant ypot cipherr, than Owen's Disornis gigantous (in palmontology) hange upon a "в. c. 2820" of a Knight's, or apon a "в. c. 2848" of an Arohbiahop's diluvisn phanterme.
1.-The ante-mondmertar poriod. This of course is an utter blank in chronology. Sciunce knowa not where geology ende, nor when bumenity beging; and the definjuve, or artifioial systems, ourrent on the subject, are of modern edoption and sparioun derivation.
At what ers of the world's goological hintory the River Nila, the $B 6 k_{\text {r-ab-abiad in par- }}$ tionlar, firat descended from palustrine localities in Central Afrion, along the anecesaive levele of Nubian plateanx, through its Egyptinn chennel to the Meditarranean (beyond the indisputable fact that its descont took effeot after the doponition of the eo-tertaed piluvial deirt upon the subjaeent limestone) is a prohlem get unsolved But were proper investigations, auch as those commenced in 1798 by Girard, (488) and out short by European belligerent interference, entered upon, in the valley of the Nile itself, by oompetent geologists, the alluvial antiquity of the " Land of Khem" coald be approrimately rasched. (484) The very rough estimstos heretofore mado by geologisto yield a minimum of 7000 years for the deparitions of the present alluviam by the river Nile. The mazimum remains utierly indefinite; but, nevertheleas, wo are enabled to draw, from the data already know, the foilowing among other deductions, of primary importance to Nilotic ehronology : -
1st.-Previouly to the advent of the."8acred River" no deposition of alleriug having taken place opon the ilmestone, Bgypt wa uninhabitable by man.
24-Since the deposition of this allavium, there has beea no Daluge, in the literal Hebretw and genesiecal aense of the term, whether in Egypt, or in Asiatio and Afriesn countries ro the Nile adjacent.
3d.-Humenity must have commenced in the valley of the Nile, onder conditions such as exist at this day, ofter a enfficiency of allurium had been deposited for the production of vegetable aliment, bat at a time when the depth of thia alluriam whe at least twenty (fifty, or more, for aught we cen asbert to the contrary) feet below the level of the highest portion of the Nile's bed at this hoar; but how mosh soil had been previpusly deposited - that is, what its thickness wes over the limestone when bumanity firat developed itself in Egypt - it is yet impossible to define.
4th. - Meny centuries (in aumber utterly unknown) mast be allowed for the maltipliestion of a humen Type in Rgypt, from a handful of rovers to migbty nstion; and for the ecquirement by self-tuition, of arts and sciences edequate to the conception and execution of a pyramid: thes fielding os a blank amount of ohronological interval; boonded on the one hand by the unknown depth and aurfece of the Nilotio alianial,

[^230]evfllelent for the growth of haman food，at the thene of man＇s introdaction；and an the other（attor thin nomad had been transmuted by time and circomatance into a farmer and then into a monument－building gitixen）by the pyramids and tombe of the IVth Memphite dyntety ；pleced by Lepains＇s dimeoveries in the thirty－flluh centary m．c．

IL－The PYRambal period，or Old Empire－Oconpying，aceording to late seientifio views， shout fifeen conturies；probsbly beginoing with Manetho＇s firt dyoanty（Lang Oocmeptis）；and anding with the XIIth or XIIIth，sbout twanty－two centaries pricr to the Christian ers．The XIfth dynasty is merzed achiteotarally by the employment of obelitht．

IIL－The period of the Krfeon，or Middle Emplre．－There boing fow monaranty for thia poriod extant，we are dopendemt，apart from Greak lota，upon the Torin Papyric，and on the names chrotrieled long efler on the＂Chember of Karneo＂\＆o．Here is the grand difficalty in Regoptian ohronology ；it having been hitherto imposeible to detrer－ mine ita duration；which is now generelly caneidered to be far ahorter than is esti－ mated in Bumen＇s＂Agyptone Stelle in der Weltgeschiahte，＂and parbupe to embrace all Seriptural connerions with Egypt from Abrehem to the Frodse inclunive；on evary one of which the hieroglyphies are utterly silent．It falades，however，the XIVth， XVth，and XVIth dyrastiee．
IV．－The popitive histomical period，or New Fmpirs，－Commencing abont 1600 to 1800 years b．c．，with the Reatoration（after the expulsion of the Hyksoa uribes），under AAHM3，the，founder of the XVLth dynaty．It may be allled the Templeperiod； beonases slthough temples existed in the Old Empirt，all the grand sanotagries standing st prosent upon the alloris belong to the XVIIth dyanty downward．

Dated hicroglyphical records descend to the third century after Christ，with the natme of the Emperor Decics：（485）but demofic papyri and mummies are extant as recent as the 4th century of the same era．（486）Oreet inseriptions at Phile corroborste Priscisnas，who relates how，abost a．d．461，s tresty，botween the Christian Empenor of Constantinople and the beathen Blemmyed，stipulated thet－＂every year，sceording to nocient cubtoms， the Ethiopians were to take the statue of fria from Phile to Fithiopis ；＂（487）and arecian traveller beara witoeas，in an inscription，that he was once present at the temple when the goddess returned．In fect，history proves that $I S I S$ was get worahipped at Phila，if not －throughout Egypt，even in the year A．D．486；and the pagan emblem of＂eternal life，＂ Anch，continued still to be inecribed，in lion of the Chrintian aras，over Grthodox charehes； es in the following instance discovered hy the moourate Sir J．Gardner Wilrinson（468）：－

$$
\begin{aligned}
& \text { "KAөÓqAIKH + EKKAH早CIA" } \\
& \text { Catho } \dagger l i c+C h u \text { 个rch } .
\end{aligned}
$$

Finally，to enshle the reader to classify，ahronologically，the Egyptien data comprised in＂Types of Mankind，＂a table is subjoined which the forthcoming＂Book of Kings＂will show to be in the main correct．It is made up，in part from the first volume of the Chro－ notogie der Agypter，and in pert from Cbevalier Leprias＇s ored communicstions to the writer at Derlin，in May，1849．（489）To it are added such exeerpts of the Chevalier＇a subsequent epistolary correspondence with the anthors as may give a general idea of his rystem，and a precise one of bis scientifle liberality．

[^231]

Thas, from an indellnite period prior to the year b. c. 8898 , down to 260 yeara after the Christian ers, the hieroglyphical chernoter is proved to have been in uninterrapted use; while, from the year b. o. 3898, modern hierology bea determined the chronologic onder of Eggplian dynsakies, through present arehwological re-construction of the Nile's monuments.

The Romane held Egypt from the 27th year b. C. antil 395 a. D.; when the sons of Theodosius divided the Empire. Egypt lingered under the sovereigaty of the Eastern Emperors until A. D. B40-1; Then, sabjeoted hy Aamen-Ebn-ml-As, she becames province of Oman's Buracenic caliphate. In the year a. D. 1517 -Hedjra 953-her valley wap overrun by the Ottomad hordes of Soolfan Seleme; and has ever aince been the spoil of the Turk:-
 renow verba lapiditus inciva. St inhabitabit REgyptum Seythys aut (ANGLO-) Indur, aft aligui tatio. (490)

## CHEONOLOGY-CHINESE.


#### Abstract

 to be woderdocad. Thseng-ien ropled: 'that is cercalis.' The Phlloeopher bering gont out, hie  mastar consiate uniqualy in pomening reciltude of hanth and in ioving ong's nefrgbor as onemols" (491)


Ench were the ethies put forth in Chins by that "pure Sage" Whom three huadred and eeventy millions of humanity suill commemorate, after the lapae of 2880 years, as the "most saintly, the mopt wise, and the most virtuous of human legisletors:" this was Chinese "positive philosophy" in the VIth century before Christ; already at the second period of its historical development. (482)

About a century later, in a distinot Asiatio world, the sobool of Ezba at Jeruarlem embodied a eimilar conception in the compilation termed Desteronomy, or " secondary law:" (498)

[^232]" But if any man hate hie neighbor. \&c. . . . then aball ye do unto him, as he had tharaght to have done unto his brother." (494) At an epoch approximate, this ides hecame sinplified into s maxim: "Better is s neighbor that is near, then a brother far off:" (493) and it is still more concisely expressed in Leviticus: "Thon thalt love thy neighbor es thytelf." (496)

Doring the same fifth century B. c., the simullaneoneness of morel as well as of other developments among Types of Mmbind radically diatinct, and romote from esch other's influences, encounters a parallelism in the beautiful dictam of a Grecian Isecrates - "Do unto others as ye would they ahould do unto you."

About three generationt earlier there flooriahed in Persis the philosopher Zorosater; some of whose elepated doctrines have reached oar day, elthongh through turgid Grecian, Jewish, and Persic streams. "Gate the 71at" of his Sadder contains the following : -
"Offer up thy gratefut prayers to the Lord, the most juat and pare Orwrzd, the supreme and adorable God, who thus declared to his propbet Zardueht (Zorosster) : Hobd it not meet to do unto others what thou whuldst not have done to thyself: do that unto the people which, when done to thyself, proves not dissgreenble to thytelf.' " (497)

Five bundred years afterwards, the writer of Watheo (498) reported - "Ye have heard that it wea said: Thow shall love thy neighbor and hate thine eromy; but I eay unto you, love yonr edemies." The writar of Luke(499) considerably axtends the ides in langagge and contextun! cireumalances - "And he answering said: 'Thow shale love the Lord thy God [Hebraice, IeHOuaH ELoHeK] with all thy heart, and with all thy soul, and with all thy atrength, and with all thy mind, and thy neighbor as thyaelf:" thas combining, into one diaconrse, two citations from the Old Tesiament ( 600 ) slighty varied; owing probably to the evengelists' habit of following the Greek LXX in lieu of the Hebrew Text.

But, among the more oxalted of the Hebrew nation, in the schools of Bebylon and Jerrsalom, such puro ethics had been taught long proviously. Thas (as our learned friend, Dr. J. J. Coben of Beltimore, opportunely reminds as while writing):-
"Let us recall the celebrated reply made by the Pharises Hillel to a pagan who caroe declaring to him that be was resily to embrace Judaigm, if the Doctor could make known to him in a few words the resumf of all the lew of Moses:- - That which thow likent not [done] to thyself,' said Hillel, 'do it not unto thy neighbor; therein is all the law, the reat is nothing hut the commentary uponit'" (50i)

These comparions made, we can revert with more pleasure to Chins and to Conrucrias.
"The lessons of Khovera-raye were often lees indirect. His moral [doctrine] is sommed up in the following lines: 'Nothing more natural, nothlog more simple, than the principled of that morality which I endesvor to inculcate in you through salntary maxime... Ist-It is humanity; which is to cay, that universal charity smonget all of our species, without diatinction.'"

Father Amioh, the great Sinicized Jeenit, commenting upon this paesage, obserred "Becsuse it is humanity, and that humanity is nothing else than man himself." Which Pauthier explains:-
"La Chinese, JIN TCHE: JIN YE: Word for mord; humanitar grax, homo quidea. . . . To render comprebensible how much humanity, or benovolenco, universal charity, Fha recommended by Kroung-terc, it suffices to eny that the word which expresses it is repented above a hundred times in one of his works, the $L$ un-yru, And it is preteaded, with as much levity as ignorance, that this grand principle of noiteral charity for mankind had only been revenled to the world five huadred yeare ifter the Cbipese philosopher, in a little comer of Asia! Qualle pitie!" (502)

We have deamed it expediant to preface an inquiry into the archeological besea of

[^233]Cbinese chranology with the above extracts. They will furnish at once to the reader a rery different idea of the teachings of Confucins (five hundred gears before any Greco-Judxan writers of the Gospels lived) than he can gather from Macao supereargoes, Hong-bong opinm-smugglers, or Canton missionaries. Whatever practical developments the latter may diumally give to the sublime priaciple of "universal charity;" whatever merit may be due to the first human being who enunciated this exalted sentiment; or whatever thorough knowiedge of humanity's hest and lofliest interests guch sentimenta may imply; all these ascriptions, history attesta, equally belong to a Sinico-mongol, Confucius; who died в. c. 479 , or about 2832 years ago. [See bis portrait; supra, Fig. 330, p. 449.]

Whether among the Hong merchants "universal charity" (and there are noble instances) be anexceptionably practised, any more than in Wall street, Lombard street or in the Place de la Bourse, concerns us not. These commercial princes are taught to reverence ita principles as much as the Dorias or the Mrdicis of Christendom; and they are exposed to infinitely greater temptstions toward its violation, than are those Chinese ercheologiats, who, scattered throughout the empire, pursue, at national expense, their hishorical studies of their owd monumente; in lattered seclusion, but with every honorahle recompense acholarship may anpire to. (508) For above twenty-three centuries, moreover, the 4 th and 6th maxims of Khoung-taeu have been instilled idto each generation of them from earliest isfancy.
" It is uprightness; that is, that rectitade of spirit and of heart, which makes one seek for trath in everything and to desire it, without deceiving oneself or deceiving others; it is flaslly sincerity or good faith; which is co say, that frankneas, that openness of heart, tempered by self-reliance, which excludes all feints and all diaguising, as much in apeech as in action."

That the morsl influence of guch principlea has not perished, even through the transitory irruption of the present and expiring dybasty of Mantchou Tartars, is teatified by Sir Heary Pottinger in the eulogiums pronounced by him, at London, upon the high Chinese diplomatista with whom he concluded the Treaty of 1844. Nor should Americang forget the excellent conduct which such principles have alresdy exbibited among thougands of our Chinese fellow-citizens in the State of Califorais.

We have not the alightest right to donbt, therefore, whatever reasonable account Cbinese echolars may furnish us of thair nation's indigenous history; of which, otherwiee, not a eyllable is known to us prior to the fourteenth century after Christ; and, where not irrational, such annals, from such sources, may be received in the more good faith, that the Chinese archéologue, baving none of our hagiographers' motives for chronological curtailment or extension, cares nothing abont "outaide barharians," their alieu bistory or euperstitions, and did not compose his national chronicles with a riew to such foreigners' edification.

The disy is evermore passed that modern ecieace should strive to reduce Chinese chronology, for the mere whim of adspting it to the spurious computations on a Hebrsw Tozt, and Samaritan, Septusgint, or Valgate version; as was the case before Egyptian monumental annals wera proved to ascend, at lesst, to the thirty-fifth cebtury $\quad$. c. (504) And we aball presently show (sketched also in our table of Alphabetical origins, rupra, p. 688), how the highest point claimed by Chinese historians, for their aation's antiquity, falle centuries below that which hierologists aow insist apon for Egypt: so that, if Egypt and Egyptians were a civilised country sad populous people in the thirty-fifth century, b. c., it wonld be preposterous not to feel assored that Sinico-mongols (indeed every human type of Mongolia) were already in exiatence, in and around China, their own centre of creation, during the same parallel ages. What is the objection to helieving that Ching was populated, by her Mongolian nutocthones, chiliads of yerrs proviously ? Réader! "one blushes" redder then St. Jerome to mention, that, now-s-dsys, the seceptance of this fact is questioned by the Rev. Dr. This, or the Rev. Mr. That: neither of Fhom, perbspa, has ever studied Sinology - never eren opened a Sinological work!

[^234]The reveries of Fortie D'Urban (505) are now saperannasted; the monstrons extratsganass of a Pararey are preserred as ceaseless bources of merriment (506) To refate either, seriously, would be aheer waste of time. The inandstions of the river Hoang-ko, overcome by the engineer Yu , (507) lie paralle? with the Eggptinn XIth dyanaty; when, in the 23d century $\mathrm{g} . \mathrm{c}$., similer causes induced smaller constractions along the Nubian Nile : ( 508 ) and a reader of Pauthier will as soon associate those local dikinga, butreases, dames, add sluices, in China or Egyph, with Usher's universal Flood, as hy anybody else the Noachian deluge might he proposed in explnation of the lever along our Loouisienien Nississippi. It would be an equal outlay of lahor to discusa Hales's views upon Chinese subjects; (509) after bis Hebraical knowledge bas been so repestedly abaken throughoat these pages: nor aeed we perplex the reader with other works whose authors, like ourselven, are not Sinologistr; bat who, in thia reapect anlike ourselves, do not seek for information at its only olear fountains.
It will be now plain that "Typee of Mankind" recognises for Chinese history none but Chinese bistorians. The chances of error lie oniquely in the channels through which its authors receive their accounta: and these, to our riew, are completely guarded agatast when we accept Rémugat and Paothier, as, above all Europeans at this day, qualifed to be their interpreters. Furthermore, every relevant passage from the Jesuit miskionaries is embreced mithin Pauthier's volumes.
Under the caption of Mongolian Origin and ideographic writinge, we have diaplayed the argumentative procens throngh which it beoomes certain, that Europe knew naght about China, nor Chine aught about Europe, until the end of the let centary after C. : but modern ecquainance with Cathay dates from the Venetion Mareo Polo, who resided in China about A. v. 1275 ; followed hy the Arst Jesuit missionary, Father Michal Rogerius, who penetrated thither about A. D. 1581; and the second, Father Matthwus Riccius, in 1601. Prom that time, during more than a century, many accomplished Europeang ? Societate Jesu flocked into the Celestial Empire; and to their rast labors are we indebted for complete reporis upon China, derived hy them from the highest scholastic sad offisisl sources of the realm - which narratlves, now collated hy Sinologists in Earope with the immense literary treasures accessible, in Chinese, to studento at Paris and Rome, prove to bave been conacientiousis executed. No Europeans, before or aince, have poseseaed anch opportavities for acquiring thorough knowjedge of everything Chinese as thene lowly preachers of the Gospel. Indeed, the official report made, in 1692, by the "President of the Sapreme Court of Rites" to the Emperar Khang-hi, and hy him approved, alone suffices to show their powerful claims upon Hantchov-Tartar afections: -
"We bave found that these Europeass have traversed vast seas, and have come from the extremities of the enrth. . . . They have at present the superiaion of astronomy and of the board of mathematics. They have applied themselvea with great pains to making warlike machines, and to cesting candon; of whioh use hes been made in the last civii troables [that is, the miasionary ordnance had been found effective in quelling Chinces revolts against the Tartar dynasty]. When eent to Nip-chou with our ambassudors [the reverend Fathera Peregra and Gerbillon, $\partial$ Soc. Jesu, $]$ to treat about peace with the Muscovites, they caused those negotiations to succeed: in short, they bsye rendered great services to the [ Mantehou] eapire. . . . The doctrine which they teach is not bad, nor capable of seducing Lhe [chibese] people, or of cesusiag any troubles. It is permitted to every hody to go into the temples of the lamar, of the Ho-chang, of the Tao-ent; and it is forbidden to go into the clurches of these Europeans, who do nothing controry to the laws: this does not setm reagodible." (510)
The emperor bimself had been previoully instructed by the scientific Father Verbiest "chief of the buresu of estronomers"; whose evangelical virtaes comprised gamonics,

[^235]geometry, land-aurreying, and muaic. The reverend Fathers Bonvet, Regia, Jarloux, Fridelli, Cardoso, de Tartre, de Mailla, and Bonjour, at govermment expense, mede offcial maps of the different provinces of China, after Europesa methods; and, at the same time that such labors familiarised the whole of these Propagandic miseionaries with Chinese literature, Fathern Amiot, Gauhil, and Du Halde, devoted their leisure more especially to minute study of Chinese archeology. In one word, the admiration syowed by the Jeguits for Chinese civilization on the one hand, and the infnence Fhich Chinese philosophy porsessed over their intellects on the other, had led to such a fusion at Pe-kin, during the 17 th century, that one is at a loss to decide whether the Chinese were becoming oonverts to spiritual Christianity, or whether the disciples of Loyoln were adopting the materialiatie " doctrine of the Lettered."

Unhappily for our deaires to solve this carions problem, certain puritanic Dominicans arrived from Rowe; and, Pandora-like, let loose fanstic ills heretofore preserved hermeticully. It was they who started that everlasting question whether the Chinese word chang-ti be a synonyme for "God" or the "aky." Pig-tailed converts to Christianity a la Jeruits were incontinently bembooed by bog-tails a la Dominicain; for herelical notions upon an equivocal point by aliens indicsted for Mongol salvatory "credo." Khoung-teeu's "univeraal charity" being interrupted by swinish brawls at which the writera of Leciticus (511) Would have shaddered, policemen duly reported their real causes to mandarin magistracy: whicb reports, in official course, reached a new embodiment of the Sun upon earth, Youngtching. This unsophisticated Tartar at once relieved himself, and his successora for more than a century, of these foreign theologers, by shipment of a live cargo, iacluding miasioneries Jesuit and Dominicen, consigned to Macao under judiciary "bill of lading," ahout the years A. D. 1721-'25.

It is to the Jesuita, nevertheless, that impartial acience looka back, gratefully, for throwing the portals of Chinese history widely open to European Sinology : and it is especially to the late Remusat, Kiaproth, and Ed. Biot, as to MM. Stanigles Julien and Parthjer, that our generstion 0 wes the reappearance of Chinese atudies on the continent since the demise of the famed historian of the Funs, Deguignes. At Paris, the Chinese department of the Bibliothèque Imperiale comprehends quantities stupendous of that country'a litersture.

Every element for our purposes being in consequence accessihle, we proceed, Pauthier's works in hand, to sketcb lat, - the mode through which archsoologists in China have definitely tabulated, in precise stratifications, the relative order of national events; and 2d, to present a chronological iable of Chinese dynasties, from auch tabulations accruing-

It is as certain as any other fact in history (512) that about 1000 geara y. c., parnllel with the reign of Solomon, books existed in China with such titles as these: - "Laws of the administration of ancient kingg;" and that recurrence was common to "eucient documents." It is also certain that arts and sciences contipued to prosper down to the year 484 в. c., (518) when Confucius compiled the Chou-king, sacred hook of the Chisese, from anterior docaments. Literature was immensely diffuaed among the "Lettered" in China; when, s.c. 213, Chi-boang-ti buraed all the books which torture could extort, together with multitudes of their readera; (914) because the latter quoted the former againgt his imperial innovstions. Nevertheless, this splendid miscreant served practicsl objects, not alogether indefensible, when he reliaved the empire of ite "old-fogiedom;" to judge by the withering orstion of his prime-miniater, Li-bse: --
"Prejadiced in favor of antiquity, of which they admire even the stupidities, they are fall of disdain for every thing which is not exactly chalked after models that time has nearly effaced from the memory of man. Incessantly they have in their mouths, or at the Uips of their pencils, the threa Ho-sng [the Chinese august triad], and the five Tif [the Chicese peninteuch]."

Nearly 2000 years previously, dispates among religious seots in China had risen to such

[^236]an intolerable pitch, that the pious Emperor Mou-wang, ebout a. C. 350 , reeords bry Yea, in B. c. 2837, in'order to appren false prophecies, miracles, magic, and revelations, -
*Commanded the two Ministers of Astronomy and Religion to cat anmder all comerenication between 'giky' and earth; and thus (anya Mon-weng) there wat mo opore of What is called this lifting-up and coming-down."

And, so inveterste, in aporadic ingtances of the Chinese mind, was this childish relianee upon incisible powera, that fifteen eentaries after the buming of the booka, the Nisister Tchasg-touei, about A. d. 1321, during a period of great physical calamities, peatilence, inundations, de., felt it incombent upon bin offee to inclade the sobjoived remarks in a long and manly expostulation:-
"A priace most not think to gorers his couniry save eo the father of bis rubjects; and it is not through Bonzes [Budhist priests] that he must seel felicity. Ever since the Bowat the Lamas, and the Tao-art, make so many prayers and secrifices to their idol, 'Heaven' bas given constant aigas of ila indigastion; and ontil anch ume as one sees the wombip of Fo [Budhs] abolished, and all these priesta driven avay, one mugt expect to be unhappy."

Such political necessities may palliate some of Chi-Hoang-ti's deeda; which obliterated 80 mach of earlier literature extent down to the Chinese "ers of the martyrs" for acience, н, c. 213.
 mediately commenced; and from this period of "renaisance" downwards no nation opea earth poasessed, till recently, annuls comparable to the Chinese Aboat a c. 176, the Chou-king of Kboung-tseu was recovered, partly, by Lling down the recitations of a nonogenarian bayast, Fou-cheng, who hed been president of literatare prior to the configgration of libraries. Through this venernble acholar (who is to the Chinese what Exrs Was to the Jews) and the fortaitons discoverg, e. c. 140 , of a copy of the Chou-king with other books in the ruined house of Confucius, the more important docaments of Chibese antiquarian lore wera restored.

European authors, who claim that we posaess the plenary words if not the autograph of Moses, have doubted this acconat. We accept it, notwithatanding, in good faith; becanse neither the books themselves nor their transcribers pretend to sapernatoralism in any ghape; whilst the nature of the locsl researehea subsequendy undertaken renders nogewory such unwarrantable European objectiong.
"But the mbs who bas thrown the grandeat eclat over the reigu of the Emperor Fon-ti, is Sse-ma-thsian, whom M. Abel Rémusat bes called the Herodotue of China."(515) His jortrait is given under our Fig. 831 [supra, p. 849]. About 日. c. 104 be commenced his Historical Hemoirs; which, in 130 books (extant in Earopean librries, and conral hed by the Sinologista we quote), furnibh a vast encyolopatia of Chinese anvals, of every kind, from the reign of the old Hoang-ti, 2697 years hefore c., down io b. c. 140.
"Sse-me-thajan made good nte of all that remained of the Classieal books; of thoee of the Ancestral Trmple of the Tcheou-dynasty; the Secret Hemoirs of the Houn of Sione, and of the Golden Coffer; and of the registers called Platen of Jasper. It is added that be stript the Liu-ling, for what concerns the lawis the Tactics of Han-sin, for what regaria miliury sffarts; the Tchang-tching, for what relates to general literatare; and the Li-gi for. every thing that is relative to ubages and ceremonies-"
There are no further bresks in Chinese archeological labors down to our time; Whieh rescarches, for care and magaitude, may challenge the anivarae. Wo mention, however, only the Researeices profound of the Monyments left by Savant, publinhed at royal expense, in 848 hooks, by Matousn-lin, in A. D. 1821 ; which covers history from the twenty-fourth century b. c. dowe to the twelfth after c. Copies exist in Europenn likraries. After the death of Chi-Hoang-ti: -
"The tombs, the ruins of citisa, the anala and rivers, asped some moneys, some tronse rases, some uras and other objects of bis proscription. A certain pumber of these bas been foand aince the fall of the Thein-dynasty. They have been carefally collected and preserved in museums or in private cahineta; desoriptions bave been made
of them, accompanied by figured designs that faithfully reproduce them with their ancient inscriptions. The emperor Kien-loung, who reigoed from A. D. 1736 to 1796 , caused to be published, in 42 Chinese folio volumes, a description sod engraving of all the antique veses deposited at the Imperial Mnsenm. An exemplar of this magnificent work, which has no rival in Europe, being at the Bibliothèque Royale of Paris."

Pauthier has selectel, out of 1444 vaser of different speciea contained in these "Memoirs of the Antiquities of Ocoidental Purity," those bebatiful specimens we behold, reduced in sixe, in bis work. (616)

The earliest originale, now extant in China, go back in date to the Chang-dgnasty, e. c. 1768: - an epoch Then Abrahem, according to Lepsios's computation of bihlical chronology, Wag yet unborn. One more ancient inscription, upon a rock of Mount Ieng-chan, jet remsing to rindicate the engineering ability of $Y v$. It datas about the year в. c .2278 ;(517) and is tberefore parallel in age with the thousand records we posseas of EgJpt's XIIth dynasty. Ita tranalation, given by Paothier, disconneats it from any dilurial bypotheses; with whioh, moreover, no geologist or archeologiat need diatress himself further.

We trust the resder bas now atteined to our point of viow, and perhaps perceives three thinge - lsh the bistorieal meritoriousness of Chinese litersture; 2d, the nature of the materiels exsmined by Jesuita whose evangelical prepossesejons were essentially boatile to the litersture they laud; end 88 , that there are Sinologista living in the world competent to liberale historical truth from chanoes of error. We now proceed to lay before him a brief sammary of Chinese time-registry ; commending to his perusel the "Researches apon times enterior to those of which the Chou-king speske, and opon Chinese mythology," by Father de Premare, rogether with an old rale of Vico's.(618)
"Wo have heard Diodorus Stcalas declare, in respect to the pride of nations, that these, - Whelber they may have boen Greek or barbarian, bave proteaded, each one, to have been the firat to discover all the comforte of life, and to bave preserved their own history since the commencement of the world.' "(619)

Greace, Rome, and Jadera, possess firet their fabaloas and then their semi-historical periods. Tradition slone pierees through the gloom of the latter, in the ratio of approximation to the eeveral epochss st which given nations frst begen to chronicle their eventa. In later daye, progrearive acience inveata auch fablea and faintly-shadowed ideidents of a nation's childhood with the gerb of mythico-satronomical aanctity. Thus does the founder of abronology, Manetho, prefnee bis historical dynasties with cycles of Goda, Demigods, and Fancs; thus do the compilers of Generis antecede Abrahem with aymbolical names of mythio patriarchs gified witb imposaible longevity; and so do the Chinese place mythology before history. The sole difference being that neither did Manetho nor the Chincse aroheologues ever believe their respective mybologies to be otherwise than unhiatorical: at the asme time that the whole of theas antique systems represent thet instinctive consciousness of nations who feal that an unrecorded national infinoy must have preceded a recorded netional adolescence.
;
Chmene Ante-historical Pemiode. (520)
Par-mou - first gymbolical man - followed by the three Hoana, vix. : -

$$
\begin{aligned}
& \text { lst-Reige of the Sky. } \\
& \text { 2d.- } \\
& \text { 3d.- " } \\
& \text { " } \\
& \text { Earch } \\
& \text { " Man }
\end{aligned}
$$

They are comprehended in a grand cyelio period of 129,800 years; composed of tweive parts called conjunctions, asch of 10,800 years.

[^237]
## Mfta-histohical Pehiod.

## For-Hi-firat Emperor-estimsted ac <br> B. c. 8488 <br> Several of his desoendsnts are nemed, with traditionery discoveries in aris affixed to ench personage.

Fou-hi, however, is a collective name upder whioh the Chinese figure many centaries of mational existence conpled with pragressive developments in civilization, marked by conseoutive artistic inventions: just af the Hehrows secribe all legislation to their noon of multitude, Noses. This traditionary and eemi-mythical frat Emperor stands paraliel with the Egyptian IVth dynasty, during the thirty-Afth contury B. C. The lattor is positively historical: to reject the former, on the imaginary ground of recent mundane antignity, in rendered fatile by exigting pyramids at Memphis. Pon-hi, Menes, and Abraham, to us sppear equally historical, at haman individuals who once lived; although of none of the thres are contemporaneons monumenta, carved by their respective people, now extant

## Histobical Pariod.

Chronological Table. - Fe condense into dynnsties that chronclogy of all the Soeragin who have reigned in China,(from b. c. 2687 down to A. D. 1821), which Father Amiot trant mitied from Po-kin to Paris in 1769 ; and which is priated "in extenso" at the end of Panthier's Chine, after collstion with the learned Jesuit's menuscript notes, and with parts of the 100 polumes of the Chinese chronogrephic work Li-tai-kisare

The 61at jear of the Chineeo emperor Hoang-ti, correspending to our b. c. 2637, falth, acoording to Lepsing's computation, within Eggpt's "Old Empire," and between the VIIlb and Xth dypastiea of Manetho, in any case during the pyramides period.



Egyptian prieats had told Herodotus, (522) that lengthened experience and observation of their own history enabled them to predicate the future throagh the cyclic recurrence of the past In no chronjelea do similar eauses oftener reproduce similar events, through perpetual cycles, than tha reader of Pauthier will recognize among the Chincse. No political acumen is required by historians to foretell the inevitable downfall of the present alien Santchou-Tartar dynasty. Its doom is sealed; its knell is ringing. One fact will illegtante its Tartarien despotism, and explsin the repugneace to prolongstion of its hateful rale nurtared in the bosom of every true Chinaman; precisely paralleled by Arab hatred to the cognate Tartar-Turks.

In the same manner that the radical poverly of the Ottoman speech compels the Turk to draw all his polite terms from the Persian, bis bcientifio from the drabic, so, in Cbina, the uncouth and slender vocebulary of the Mantchou-Tartars became enricbed, after their conguest, with Chinese words of civilixation. This gave offence to the Tartar emperor, Kien-loung; who, encious to preserye the Mantchow idiom in its natural if barbsio "purity," appointed an Imperial Commission, to compose, from Martehon radicala, 6000 new words, to stand in place of thoge which his courtiera had borrowed from the Chinese tongue. This new nomenclature, printed and proclaimed, was imposed upon all high government functionsries; who had thus to learn 5000 unknown words by heart, under serere penalties! Truly, ee Champoilion-Figano remerts - "Il n'y equ'un Tarlare regasnt sur des Chinois qui soit essex puiseant pour introduire d'emblée et par ordonnance cinq mille mots dans une langre|" (523)

## CHRONOLOGY-ASSYRIAN.



- (Pindocers-Shak Nusseh.)

Tar eighteenth century, fecund precuraor of those conqueste in historical science that have immortalized the ninateenth, passed sway, withont permiting its contemporaries to illumine the gloom which, siace the decize of the Alecsandria School at the Christian ena, for 2000 yeare had enveloped with equal obscurity the pyramids and templea of the Nile, the lightning-fused towers and crombling hrick mounds on the Euphrates and Tigris, or the rock-hewn aepulchres and thousand-pillsred fanes of "lorn Persepolis."

In the year 1800, abalotely nothing was known ebout these kuge colossi of the peat beyond the fact of their axintence!

A woudrous change has been wrought, by half a oentary of researoh, in historical knowledge: almont inconceivable when we refect that, upon the Aesyrian theme before us, modern science knew nothing in 1848 - only len years agn. "Palpitants d'actualités," Lamartine would eay, bre theas glorions discoveries - still damp from the preas are the volumes that unfold them.

Antitheais serves to place past ignorance and prasent information in the strongest light. Porsepolis and her arrow-beaded ineoriptions suffice by way of illustration.

The German Witte agoribed these mins, not to human egency, but to an "eraption of the earth," De Raesch deemed them the work of an antedilurian $L$ arnich, " whose exploite are exhibited in these sculptares." Diacarding Honer's Jliad in the aense volgarly understood of itg glowing beroics, De Rasech believes Persis to be fignred by Troy, Media by Europe, and Assyria by Abie Acconding to this logapocist, or compiler of invented facta, the Grecian siege of Ilium was but a var between Medes and Peraians: and the cuneatio letters of Pergepolis "record a series of kings from Cain to Lamech."

Chardin, in 1673, pronounced these remaing to be about " 4000 gears old;" a limit too reatricted for the astronomer Bailly: who attributea the foondation of Persepolis to the



Persian hero, Djemakid, (524) whose fahuloas becase mythic epoch he fixed at 3209 н. c. To the same Iranian demigod are these edifices asaigaed hy Sir W. Jones, estimating their age at about 800 gears before Christ.

Semitic historians without exception, as Sheridan neatly observed, ${ }^{4}$ draw upon memory for their wit, and upon imagiastion for their facta:" wherefore olim olews to a renlity could be obtained through them. Like the libraries of Alerandris, of Jerusalem, of Chins, of Budbic Hindastan, and of Hebraical Cbriatondom, thase of ante-Mohammedan Persie perished, from similer fanetical causes, in Baraconic flemes with the dyuanty of Chosroee, about a. D. 637. Such fitful traditions as aurvived the wreck of Peric literature became inveated (after Bédswee destructiveness bad become altered into caliphate restoraions) with the hyperbalic extravagancies of Eastern poatry and romence.

One immortal epia, Firdoosee's Shah Nameh, or "Book of Kings" composed in the eleventh century, parports, indeed, to cover 3600 years of his conntry's ancals, from the tearokephalic Kajomurs down to the Arab invesion. Persepolis, noder its local name of Stakhar, is mentioned in twenty-eight passages, and its existance is reforred to as coernl with Kai-kohad; whose apochryphal era, under Sir W. Jones'e hypothesis, falls sbout в. c. 610: but, neither from the "HisLory of the early hinge of Persie" by Mirkavend, in the Afteenth century, nor from the "Dabistin," was archeological ecumen able to disentangle s solitary thresd indicative of the age, the baildera, or the writings, of Persepolis.

As in Egypt the present fallah, or peasant, ascribes the pyramids to "Pharadon " (595) or l'haraoh - a name to him the synonyme for Satan - oo in Perais, the illiterate native is content that an ancient edifice should be the work of Suleymin'; st once the erebimagua of Ofiental necromancy and the sage monarch of Larael : for at Murghab, Pafargade, the masusoleam whence we bave drawn the portmit of that great man [rupra, p. 138, Fig. 43] whose soulptured epitaph is simply "I am Cyrus, the king, the Achmmenian," is called Takhti Slifyman, or "Solomon's throne." Like Jephthe's, who wes buried "in the citika of Gilead," (526) Solomon's tomb is shotrn at Shirds and egrin on the rasd L Kashgir! Nimrod is even atill more ubiquitous.

Equally futile were etcompte to rescue history appllasile to Perais's monoments from the Zend-Avesta of Zoroastric attribution, or from the leter Boundeheth-PeNivi: enored bookt containing the rituals and theosophy of the Guebres, or Persian erpatriated ignicolises of Guzerst, dow oslled Parsear From Greak writere slone (Herodotas, Xedophon, Ctesica, \&c.) were such elements of early Persian hiatory derived sa beve atood the teat of monamental inveatigation: but the science of the last centery bed ransecked all these sourosa without obtaining a glimmer of light as to the natore of Periepolitan wedge-ahaped chenacters. Lite the once-mysterious hiercglyphs of Egypt, as interpreted by Father Kircher, the inscriptions of Parsis were aupposed to veil occult and arfol things, bleck arts of magic, or diabolio talismans. With naught to gnide them but the more or less paithless oupies printed by De is Valle, Le Bruo, Kaemfer, and other old treveliers, how could the opiaion of a student be other than a conjecture more or lass rational eceording to the mental calibre of each critic ?

Thus, by Leibnits and by Cuper, these inscriptions were reasonably conjectured to contaio the letters and elements of "some very ancient writing." Lacrose, the grent Coptologist, conceived them to be hieroglyphical insoriptions bimilar to those of Egypt (at that day undeciphered) and of China, whieh last are not "sacred sculptured cheracters" at all

[^238]Chardin opined them to be a "veritable writing like oar owa;" and Le Bran happily desoribes these ruins as covered with " ancient Persian cbaraoters."

In the face of seasible epeculations on mattery then fotirely inexplicable, the intrepidity of ignorance is exemplified from a quarter whence it would have been leant expected; viz., in Hyde's History of the Religion of the Old Persians (Oxon. 1760). Not only does he deny that these Persepolitan inscriptions are "old Persian writings" but the author hacks essertion with profemsions of faith:一"I amo of opinion that they are neither letters nor intended for letters; but a mere playful jeu d'eprit of the chiet architect; who, to adom the walls of Persepolig, imagined a trial of how many divers forms a single elementary stroke the wedge) could be prodaced combined with itself" ! This is as piliable for such a acholar, as the unfortunste Seetzen's mistake, when he wok the sunken spaces between each Himysritio letter for the charactera tbemselves. In the anme manner, one of Hyde's contemporaries (the Abbe Tandean, 1762) stoutly maintained that Egzptian " hieroglyphics were mere arbitrary eigns, only employed to serve as ornments to the edifices on which they were engraven, and that they were never invented to pictare ideas."

These arrow-headed aculptures, lizp the still-anintelligible carvings on sboriginal monuments of Mexied, Central Amerios, and Pera, seemed so enigmatical even to the great explorer of Babylon in 1816 , that J. Claudius Rich diaconolately embodies the sum total of knowledge in these words: -
" Their real meagidg, or that of the Peraepoliton abeliscal character, and the still more complicated hieroglyphics of Egypt, however partially deciphered by the labors of the learned, will now, perhaps, never be fathomed, to their full extent, by the utmoat ingenuity of man."

By strange coipcidence (serving to edd another example of the simultaneougnees of discovery, at every age of human development), while Rich penned the sbove lament, Grotefend in Germang commonicated to Hearen, 1815, those succesefal deaipherings of Persepolitun cuneiform inscriptions be had commedoed in 1802; which is the identical year of the arrival in England of that Rosetta Stons; whence, about 1816, Young's deduction of the letter L in the name "Pbolemy" originated those estoundigg revelations from Egyptian beulptures which ere now so familiar in the archmological world as no longer to require notes of admiration

Egyptologiste, by rough and ready processes, have so oompletely vanquighed opposition, that, at this day, dishelievers in Champollion confae their lugubrious chants to hearert illiterate and inarticulste: bnt, to judge by the pertinscity with whiah one, who is no mean sobolar, (527) insista that Mosea wrote - "The Tigrin flows to the east of Ansyria; " (528) and, therefore, that Botia and Layard have discovered Nineveb on the wrong side of the river- the battles of cuociformista heve only commenced: Happily, the Lourre boasts of en Orientaliat (529) who can alway quote to M. Hoefer the Muslim poet's mnemonic io St Louis: -
"(O king of the Franks!) if thou preservest the hope of avenging thy defest, if eny temerarious design ahondd bring thee back to oor country, forget not that the house of EbnLokman, that served thee for a prison, is atill ready to receive thee. Remember that the chaina whicb thou hast worn, and the eunuch Sabeeh who guarded thee, are ever there and waitiog for thee." (580)
Such was the picture on the obverae page of Assyrian archmology in the year 1848. Before contrasting which with ita illuminated face in 1853 , it is due to the memory of that master, whose teaching of the methods for deciphering the meaning of all antique records has been the true carae as well of Champolion's as of Grotefend's aucceaser-and hence of the whole of our present Egyptian and Agayrian knowledge - to name Bitimetre de Bact.

[^239]In that part of our work diseusoing Alphabatic Origins, the student will fad a muffiency of authorities cited to verify the ecenracy of those reaults to which this volume is copfined Recapitulation here is neediess: buk should ever such inquirer follow the developments of paleographieal discopery, book by book, hackwarda from to-day, his hark will not ground ontil he reachea the year a. D. 1797, and touches the $\mathbf{N e m o i r e}$ sur les antiquides de la Porse, et sur bes medailles des Rois Saroonides. Its author, De Sacy, is to palmography that which his colleague Cuvier is to palsontology: each being the inventor of the only trae melhod of ratiocination in either acience. From the former's Memoir we have barrowed many of the citations above presented; and, our remarks being but introdactory to Assyrian ehronology, a reference to the excellent compendium of Vanx ( 581 ) indicates the shortest roed wo summary annla of cuneiform investigetion; no less than corroborntes oar assertion that monumental Assyria mas a blank down to 1848.
l'aul-Emile Botla (whose surname is dear to all American readers of his ubele's Soris dell' Independenza), appointed French Consal at Mosul in 1842, whs the first w resuscitato Ninereh since her fall in s.c. 606. Proficient as an Orientalist and Easters traveller, through residence in Syria, Egypt, Ethiopia, and Arsbis, aince 1829-80, none poeweseed higher qualifications for the task; yet, with rare modesty, he attributes his own discoreries (a) Newton to an apple his finding the lawe of gravitation) to en accident; viz, to a coople of bricks, brought to him by a Nestorian dyer, who unearthed them whilst digging a foundation for stoves and boilers on the mound of $\bar{K}$ horsabdd. (532) But, these two forlorn bricks were impressed with arrow heads - thing which Botin's education at once permitted bim to appreciate. Ten yesra have aince elapsed. The Loavre proudly displays bis sculptored deterrationa - national typography splendidly perpetastea his naffected narretive - and, those who weigh ecience by "dollars and cents" may sneer at legislative manificence on learping that France, in 1849, had already voted $\$ 150,000$ to eternalise Botia's Assyrian deeds; whout either forgetting an individual's futore, or coneidering the balance of an ecconnt-curreat between a man and his country thereby stricken. His consulate is now at Jerusalom.

An intimato friend, and onthusiastio spectator of the Freach Consul's schievemeats, commenced operstions where the lather relinquished them. Henry Austen Layard - of noble Huguenot extraction - born at Ceylon, and brought up at Plorence, is essentially a man of the Easl Leaving Englard in 1889, be reached Mosul, 1842, by way of Germany, Russia, Dalmatis, the Borphorus, Asin Minor, Pereia, and Kakistha. His performances are familiar to a!l readers of Nineveh and ita Remains, 1849 ; and Babylon and Nrateh, $2 \mathbb{d}$ Exped, 1853. The lettern LL.D. and M. P., and the office of Under Secretary of Foreign Affairs, tell bow a nation can reward living merit: at the same time lbat "Eantern quastians" point to eventaslities not less nationally important. The British Maseum conseerstes for ecience the innumerable exhomations of Leyard.

Oreat as have been, however, the exploits of these discoverers, they mart not danzle our vision from bebolding the less ostentatious if arohsoologically superior restarches of Hawbison and of Hincks; bat for whom, the cuneiform recorda of Ninereh and Babjon might have jet remained eesled books: allbough, so closely followed have these aspants been by a Lömentern, a De Longperier and a De 8aulcy; so materially aided by Birch, Norrin, and other akilful paimogrephers; that by grouping them all into a "Cuneiform School" the invidions lask of assigning a place to any one is cbeerfully avoided. Our inquiry simply is, what have they all done in Assyrian chronology,

Let it firat be obserred "en passant" that the long liste of Chaldsann, Arab, Assyrian, and Bahylonish sovereigns, preserred by Ctesias, Plolemy, and the Hebrews ; (533) coupled with the pseudo-antiquity popularly assigned to the Xth Chapter of Geresis; bad occosioned the most exaggerated notions, ahout 1844-50, of the epochas to which tbese sculptures of

[^240]Assyris should be attribated. Nowhere was this sentimeatality exhibited more strongly than at the British Museum. Ninevite bas-reliefa of the 7 th century g. c. were reverenced by pious crowds tho looked upon them ns if their carring had actually been coeval with the "Tower of Bibel"; at the same time that Egyptiso relics of the IVth Memphite dynasty, belonging to the 4 th chiliad before 0 ., and those stapendous granites of the XVIIthXVIIIth dynasties, positively deting in the 16 th- 18 th centaries prior to the asme era, were passed over in contemptans silence; elthough displayed in gigantio halls, whilst Assyris (for want of room) lay in an underground cellar! And yet, withal, the only monumental proof of the existence of either BuBeL, or NINWE, 1500 yeare m. c., depended then, at it does now, upon Thotmes IIId's "Statistical Tablet" of Karnac! (534) Nor, excited by the magnificence of thair monumental resurrections, can we he surprised that the two explorers somethat participated, at that time, in the general feeling.

But, the habit of diepassionate comparison of art (opon itselt alone) among soulptured antiquities of every period and region collected in European Museums, had inatinotively led thorough archbologiste to prononnce the word " modern," over every fragment brought to London and Paris from Nimroud or Khorsabid; and this before a single Assyro-oaneatio inscription had heen deciphered. Firat to undertake this thankless ofice was De Longperier ; (535) who proclaimed, to shocked orthodory, that nothing found or published of Assyrian ban-reliefs could possibly ascend beyond the 9th century; st the asme time that Khorsabid had then not yielded anything older than the 7th-8th century $\mathbf{~}, \mathrm{c}$.

Nevertheless, it was puhlished -
"On the most moderate calculation, we may assigu a date of 1100 or 1200 before Chribt, to the erection of the most ancient [palace] : hut the probability is, that it is much more ancient:" (580) and maintained - "There is no resson why we ahould pot easign to Aesyris the esme remote antiquity we chim for Egypt" [B. 0. $8.500 \%$ ].

Col. Asmlisson too, whilst conceding that "the whole structure of the Agsyrian graphio sybtem evidently betrtya an Egyptian origin: fret orgenired upon an Bgyptan model,"(6BT) formerly considered the Obelisk of Nimroud to date abont the 12 th-18th contary घ. 0 .

Now, thie ege for Assyrian monumental commencements harmoulses perfecly with Egyptian conqueste and dominion over much of that country, during the XVIIth dynasty, 16th16th centuriea $\mathbf{8 . c}$. It is merely the archeological attribution of any seulptures, yet found and publinhed, to such an epoch that we conceat. We ere the leat to ourtail any nation's chronography; but, misled mo often hy hypotheses, we ceane to depend any further upon arithmetio where not aupported by positively archmological stratificationa Lopains, it aeems to us, has fairly atated the possibilities of Chaldaic chromology ; (588) and future reasarehea by cuneiform echolers will doubless determine the relative position of each historias atratum as firmly for Ansyria a has been already dove for Egypt.
With these provisoon, we may esfely present a synopsis of the lest ahronological reaulta put forth by Layerd. Possessing all the reaources at present attainsble, and profoundly rersed bimself in Absyrian studies, his tabolation of the monamental series of reigns inspires full confidence, at the same time that his resulta aceord natarally with the hiatoriae of edjacent countries and people. (589)

## Ante-monemental Pebiod.

Into this eategory are osst the regue and semi-mpthical traditions of Nimrad, Ninas, Belus, ned their several lines; wich, according to classical writers, may ancend to 1908 years hefore Alexander, equivalent to 2234 в. o. (540)

[^241]
## Gevzalogicaz Period.

This ciass embraces those Asnyrian Eingz, of whose reigus no con/emporareovs montmentu bspe heen discovered. but who are recorded in the pedigrees or archipes of their succes sors: distingaiahing Rawlinson's reading by R, and Hincta' by $H$.
Kigy (majecturil fenlag) Aboutic.I. Dactio (R)....................................................................................................................... 130
II. Difantera (R.), Divayctigh (H.) ..... 150
 ..... 120
IV. Manormpait (B.) F. Merisctiondaccs?
FI. Aphanciach I. (R.).1009
 ..... 96
Monelerital Pbriod.
 ..... 050
 ..... 00
X. Shakss ApaI (R.), Branaitay (II). ..... $E$
 ..... 816
XII. BaLblal (H.) ..... -
EIIL Abausket (H) ..... -
 ..... 150
XV. Sascox ..... 70
 ..... 704
XTII. Reanthaddos ..... 00
 ..... -
XIX. (Son of preseding) ..... $\llcorner$
XI BEatideazaknox! (H.) ..... 000

The chronological approzlmations of oar stetch hingo apon the name of Jehu, king of Isreel, who, on the Obelisk of Nimroud, is made tributary to Divenubar; thas establinhing a gynchronism aboat the year $886 \mathrm{~m}, \mathrm{c}$.

Everything yot disoorered on the site of Babel seems to belong to the reign of "Nshukudurrachor (i. e., Nabuchadremar), king of Babylon, oon of Nahobaluchon, king of Baby-lon"- not astlier than about b. c. 604.

Time, the performer of so many mervele in archeology, will achuredly enable us soon to attein greator socyrien precision; already foreshadowed throagh the pending oxemations of M. Place, and the persomal atudies of M. Falgence Premel and of Col. Rawlinaon, on the sites of Mesopotamian antiquity.

CRRONOLOOF-HEBREW.
(2) later IH 8.)

Ir would be affectation if not duplicity, on the part of the authors of "Types of Menkind," after the variety of shocks which the plenary exectitude of Hebrew chronicles bes received at their bands, not to place everything laraelitiah on precisely the same human footing as has been assigned to the more ancient time-registers of Egypt and of Chise, and to the more solid restorationa of Abagria

The resder of our Eseay I, in the present volume, can form his own estimate of the historical weight that Hebraicel literatore may possess hereafter in scientlic ethnography.

Honumontal bistory the Hebrews have none. Even their so-called "Tombs of lings," owing to the absence of inscriptiona, bspe recently occasioned a discussion among such deep archmologists as De Saulcy, Quatremère, and Raoul-Rochetle, (541) that showg upon how tremulous a foundation their attribution reate. The "arch" and massive basements of Jerusalem's temples (discopered by Cathernood, Arundsle, and Bonomi, 1832-8) may

belong to Zerubbabel's or to Solomon's edificas; or, in part, to the anterior Jeburites, for anything by tourists imagined to the contrary. In the absence of monamental criteria, we are compelied to give the Hebrews but a fourth place in the world's bistory; at the same time that justice to e people whose strenuons efforts to preserve their records has encountered more terrible obatacles and more frequent effacements than any other nationality, demands the amplest recogaition
The numerous citations and lables with which the subjeot of ohronology bas been already ushered, epare us from recapitulation of the manifold instances whereby the Text contradicta the versions; the namerioal desigastions of a given manascript, those of another; and the modern computations of one individual, the estimater of almost every other indiridunl; whensoever the date of any Jemish evenh, antarior to Salomon's nemi-pagan remple, in the objeot nought after.

In fach, we may now realize with Lepaine, that the etrictly-chronological element was wooting in the organism of Hebrew, as of other Semitish, minds; antil Manetho the Sebennyte, about a. c. 280, first extablished the principlen of chronology through Egyptian indigenous records; and, by publiahing his resulte, in Greek, for the instruction of the Alexsendris School, first planted the ides of baman "ebronology" upoz a seientifo basis. All syatems of compatation (heretofore followed by Christendom) lake their departure, historically, from Manetho.

It is deeply to be lamented, for the aske of edocation, that no qualified translator has yet honored Anglo-Sason literature with an English rersion of Lepsias's "Introdaction" to his Chronology of the Egyptiant; of which the writers, through the Cheralier's complaisance, have possessed the first-half aince December, 1848, and the sesond since May, 1848. Impossible, we fent, until euch translation be acceasible, is it to convey to the majority of our readers, the antively-new prinoiples of chronological invest gation this wonderfal grapp (of a mind at the pinasole of the oulture of our time) hes condensed into 554 pages quarto. Erudition atands hombied at the mapect of this volame's conscientious and universal probity of cilsion: at the eame time that ita perspicaoity of arrangement is suab, that those who, like ourrelves, poseese no acquainlance with German, cas treck the footstops of ite author almost paragraph by paragraph. Through the kindneas of many Allemanis friends, the writers have been ensbled to annotate their copiea of the CAronologie der सeypter with marginal and other notea that justify whaterer essertions thoy respectivoly make upon on anthority otherwise to them Germanioally coooenled ; and, in consequenoe, with reforence to Rabbi Hiltel and many of the facta suhjoined, they may confidently refor the reader of "Types of Mankind" to Leptius's compendium ; ( 542 ) as a ground-text which the writera' comparstive etudies of works in other tongues, more or less familiar, have reaclted in deeming the highest, in these peedilar branches, of our common generstion. In any case, a German scholar can eamily verify our debired acouracy by opening a pristed booz; foor copies, at lengt, of which are now even at Mobile, Alabama.
We have said that Nazetho is the founder of the science called "chronologg." We mean thst he is the first writer who deveioped througb the Greek tongat, at his era the lsoguage of Occidental soience, those methods of oomputation in vogue from very ancient times among the sacerdotal colleges of the Egyptisns. Hs is the exponent, not the inventor of his country's aystem : Eratosthenes, Apollodorus, \&e., are hig saccessors; together with Josephus, Africanue, Eusebius, and the Syacellus; whose Judaco-christian theories have been the sources of that fahric of supersition beretofore repated to infortn us concerning the epoch of God's Creation.
No doubt remaing any longer that, ceuturies prior to Manetbo, the Egyptian priesthood did possess chronological registers; becanse, aside from inferencen patent in his predecessor Herodotus's "Euterpe," we bave before our eyea in the Thrin hicratic papyrue (datiog in the I2th-14th century в. 0. , or 1000 years beforo Manetho) the same system, often with the asme numerals, of reigns of Gods, Demi-Gods, and Afre, that this chronographer eubsequently expounded to the Alerandrian echools. Alas: Manetho's mutilators, not his

0wimaginery lnmocoranies, ars the osuse of that conforion of personages and dales, frofrin oot of which modern archmology is now beginning, throagh bieroglyphical collmions, to emerge.

Of conres, Chinese computations are distinot : being the production of other lands, other recef, other histories, other Forlus of thought sad ection. So, likewise, may be the loat Chaldean syatems, of which fragments surrive through soanty extraots of Semeoniatho and of Berosulf ; or, as we sball see, throagh the more recont Sensorit astrologico-eyclia fables of the Findoos: brt, with the above excoptions, and (if you please) of Mexico and Peru, thero is no sytem of what we call "chronology " bat is historically potterior to Menetho, whose ers stands at the middle of the $8 d$ centary $\mathrm{E} . \mathrm{o}$.

This is facile of oomprethemaion to the render of our Eesy I, He therein perecives that the oldest compatatory dats based opon Judaic traditions are foond in the Greek Saptwagint; being itself a collection of tranalations menafactured at Alerandrie after b. c. 250 , nod before B. c. 180; in whiob, Alerandran Greek dialecta and Alecandro-Bgyptien "nothic periods" of 1460 years, betray a people, an age, and a fudon of philoophical notions, auch as could have bean produced, throngh nuturel casues, in no locality opon earth but Alexandris; and thet too during Plolernais generations subaequent to Menetho.

The next in order in the Hebrev Text. Its canonical entíquity, in itn oldest and leat form, canot remoh ap to Brra in the 5th centary, and deasends anto the Meccabee princea in the 2d centary. B. c., i. e. after the writer of the book cslied "Daniel." Bath our Introductory has effaced the velidity of textana numeration in any Hebrew codex (no MSS. being 900 jears old); because, while on the one hand ith radically diecordant numbers phow that, when the Septuagist was translated, the original Hebrew exemplar in ite patrisrebal enumerstion oither did not then exist, or must have been identical with its copied Greet version; on the other, the Bebrew equare-lefter character, of this Text's present form, not having been invented until the 8d century ofter 0 ., the obronological elemonts now in the Text mant originate from menipulations made above 300 years after Manetho.

Thirdly, and lesty, there is the Samaritan Penteteach. It nomericsl eystem altogrether departs, for patriarchal ages, from both the Soptnagiat and the Hebrew Toxt. The age of itn compilation in attorly unknown; bat the palnagrephic ehepe of ita alphabetic lettere bring anch MAS. an exist now to an epooh below that of our Hebrew Text itself. Suppoting the ramored eotimate of one Nabloosian codex did make thet unique copy attain to the 6 th centary aflar c ., mach fact would merely prove our viem to be correct; bat, in En rope, no Samaritan M8. is oider than the 18 th century. In consequence, we cannot aceopt, in soientifio chronology, soy more than Biracides, the modern hypotheses of that "atultus populus qui habitat in Sicimis."

These facts being posited, one can understand the apparatus and the offorts made upan them by the learmed Rsbbi Hillel, about the year 844 after c., to place Jeucieh chroanlogy npen a ecientifio beais that it nerer posseased before his labors. He was acquainted with Grecian calendrical compatations; probebly with the cyolea of Moton and Callippus, the mathematics formulm of Theon of Alezandria, and with the chrobography of Africanas, perpetustor of Manetho.

A quotation from Lepsing bas been submitted on a preseding page. Another extract will illuatrate his views 548 ): -
"But then it is very improbable that Hillel went to Fork in the monner that Idelerbelieves ' Evidently,' says Ideler, 'he otaried from the thea-still-geperally used (by the Jews) Selcueidan era, viz. : the sutumn of the year 812 в. c. Calcolating beckwards, bis next epoch was the destruction of the gecond Temple. This epoeh he fxed at only 112 yesre (before); thus counting more than 150 gears too little, and making Nobuohadnenzar contemporary with Artarerses I. Going back to the Building of the first Temple, the Exodus, the Deluge and the Creation, partly according to the express dates of the Bible, partly according to bis explanation of those dates, he found, as tbe epoob of the afipjan Sharoth beginning of the year 8450 of the World.' So groes end inconsistent an error of 160 years in so modern a cime was impossible to a sotant of the 4th ceatury. Dut there is not much diffeculty in explaining it, if we coppose, that the Rabbis, after the great hiaroa in Jewish literature
(which begata with the conclusion of the Telmad, 800 A. D. to the 8th century, fid reouive the few general pointe, which Hillel had conneoted with his universal calendar, from bim, and that then, only then. they began to fill up their univertal history of 5000 yeara eccording to the records of the Old Testament. Indeed, we find veither in the Talmod nor oven in the sate-Talmadia writings, - ex, gr. in the Seder Olam Rabba, one of the most anoiant of these writinge - the whole ohronological fillings up. This seems to bave taten place in the 12th oentury; consequently at the opooh of a long-proviously commenoed seientifico-literary barbariam. From the Cration to the Deloge, and the Exoctus, they had only to follow the numbers of the Pentateach to attain the given date (A. m.) $2448=1814$ (s. c.). Bat thenceforward they bueed themelves opon the convenient number of 480 years to the Buiding of the Temple (in the 1st Book of Kinge), and according to this they arratiged the chronology of the time of the Judges. By this, then, was the rea! link of chronology dislocated for $160-170$ years, which oocasioned the displacement of all the suoceediag members. Only when arrived st the nort fired point, in the year (A. m.) $8450=812$ ( $\mathrm{n}, \mathrm{o}$ ), , wes it found, that the chain of eventa, for the given epace from the Building of the first to that of the second Temple, was much too long. The history of the second Temple, bailt onder Darive Hystaspin, down to Alecander, from whom the Greek ors took its name, shrunk then at once from 184 to 84 yeara. At first this oreated litele sensation, bat aftorFands the difficolties becoming grester, they vepe removed by the simple means of adoptIng Darius II, and (Darius) IIL, an one and the same person. In this menner nloge can Fo explaia the afngular phenomenon of an entirely dislocsted and matilated ohronology, Fhich notwithstanding possesses two flrm and only-tars points; and at the same time offers us the most important and prohsbly most acourste deternination of the epoch of the Exodus by a really learned chronologlst."

It is from the original that the resdar murt gather, what our opsoe and objeete permit un not to traneoribe, the oitations, ko, throngh which the anthor eatablithes his view conclusively. To us the importast frote are these - 1sth that the Jews had made no attempta at seientifio ohronology prior to the 4th centary after c.; nor did thoy complete such es their later achools adopt antil the 12th. - 2 dly , that, through their childlike prepossessions, and owing to their saperstitious notions that the ere of "Creation" could be hamanly attained, they oiphered oat a fabulous number, equivelent to " $\mathrm{m}, 0.8762$," for a divine act, which their ignorance of the phenomens of antronomionl and geological noesasing progres sion, led them to imsgine inatantareoup - "Fiat lur !"- and Sdjy, that, having blandared by 160-170 yeare, ouly between the Exodur and Solornon's temple, they asalk deeper into the mud when, in efforta to eocoant for their own imbecilities, they made one man of two Dariuses in order to roh the world's history (184 minus 84) of 160 years! And it in such Wratched stuff es this mbhinioal arithmetio which is to be set up, forsooth, against the atome-books of Egypt and Asayris, the records of Chins, the annels of Greeoe and Bome at the agy of Alexander tha Great, and overy fact in terrestrial history! Well might Losueur indite the passage sbove quoted - " Nous sommes, depuis dix-huits cents ans, dupes de la sotte pante dee Juifs:" and juptifahly may archaological acience hold cheaply the acomen of the whole seriee of those who, amid other ooncerits, have adopted 480 yenre between Bolomon's temple and the Exodus.

Before exmmining which fact, it may be expedient that we ahould aet forth our own point of view, founded upon the snme principlea hitherto puraned, vis., that our process is always retrogressive; ever atarting from to-day, as the known, and going backwards, in ell queytions of human registration of events.

The era of Nabonasear, if entronomy be certainty, in a point fixed, by eclipses, \&c., in the yesr a. c. 747. Thence, beckwarde to the "Sth year of Hehoboam," when Jeruselam waa plundered by the Egyptian Sheehonk (of which event the hieroglyphical register atapds at Thebeb), we have a positivo oynchrodiem aboti the years $971-8$, "B. c.;" for, in ancient chronology, asserted precision to a year or so is next to imposition. Thence, taking Solomon with his "chsriots dedicated to the sun," and bis Masonico-rodiscal Teraple, for granted, we accept the era " 10100 yeari a. c.," as an assomed Axed point when that temple whe already completed. We say "ssamed," becbure Calmet's date for the complotion of this edifice is в. c. 1000; whilst Fisleg's is e. c. 1020 : and, rather than trouble ourselvea vith aceertaning which of these computations may bo the leset wrong, we mould greatly prefer discoasing Fhether Solomon over bullt a Temple at all. Why, if for the aecond, or

Zerabbabel's Templo, we have to choose among 19 biblical chrobologere, whoee gariane is B. ©. 741, and sinimum 450 -if, for a Jewish evoot of scareely 2400 years 2 g 0 , we cannot through Judaic books git nearer tho truth, according to "ehronological" arithmetic, then 262 years, up or down - how puch nearer are we likely to get to another Jewish event (itself fraght Fith proternimitul dilemmas), supposed to have bappened somewhere abont 2858 years ago, when the epoch of the building of the firt Tomple depends apon what compatation we mey eleot to edopt out of 19 different orthodoz authoritiea for the age of the second?

Thus moch for the aske of forainhing our colleaguea with practical means of rendering occlecisaticas opposert of "Types of Mankind," If not leas supercilious, at least more mulleable; whenever these may be pleased to obtrade Jewish."chronogrephy" - or, as it is fanhionahly termed, "the received chronologg"-into the rugged amphithentre of Eeyptinn time-measurement

Archwologieally speaking (not "chronologieally"), thert is no material objection to arech earomption as Solomon's T'mple at (circa) в. 0.1000 ; a fery years more or leas. Under this historical view, epart from episodio ciroumstances (to be disounsed hereafter), arebsology may rationally coscedt that Febrew tradition, throngh alphebetio facilltien doveloped not much leas then thret centoriea posterior, does really oontain chronological elements beck to sbout 2858 yoars ago - esy to B. c. 1000 .

We continue with Leptim -
"The question is now whether we munt give up, for lost, the number 480 (to which we eamot atisoh grester linportance than to the numerous aimple "Arbaindt," or fortice [ 40 ? ], in the same parts of Israelidah historg); and with ith alsa, orery chronological belm for ovents anterior to the Eyode! But sach is not the oase, beceuse we find, in the [eo-called] Mosnic writings themeelve日, a true chronological atandard, by which we can compute [the chronological weight of] the views bitherto beld, and confing anew the trothfulness of Egyption record. Such s standard I conocive to be the Reginters of generations."

Altasion has betn made, in other parts of this volume, to the Nos, 7, 12, 70 or 72, as mgatic in origion associstion; and how the latter slways, the former two frequentiy, art unbistorical wherever found. To these nombers (of cabaliatic employment since the daye of Joremiah), we may now sdd, as equally rague in Hebrew chrooography, wll the "arbandr" or "forties." By opening Craden's Concordance the reader cen see a list of above 50, out of many more instances, where the presence of "forty" renders the marretive, in this respect at lesst, ungufe. Here la a sehedpie of some that are postively spocryphal; espeolelly when, through a conventionel No. 40, an evenh, in itself prosternataral is rendered still more Impoasible by the nomerala that ecoompany it.

## Apocerpial Robtith,

| ard Themeneat. |  |
| :---: | :---: |
| 1. Gex Fill 4......... " 40 dayt and 40 nighta" | 15. Job cill 16 , ...... "4hodred and 60 Jank." |
| 2. Erood, miv, 18....., "40 daye and to nightar" | 16. Prater yet. 10_m ${ }^{4} 40$ ymart" |
|  | 17. Enek. Iv, B........... "40 daye" |
| 4. Deat. Lx 23 ........ " 00 deyn." | 18. Amotil 10 ........ "40 jourt" |
| 6. Faph t. 6 ........... * 40 yeara" |  |
|  | New Trtagex |
|  | 20. Nath Iv. 2 .......... "40 dayt end 40 nithan* |
| 8. 2 Sam. \%. 4 ......... " 40 yearrs" |  |
| 9. 1 Einge $\mathrm{xix} . \mathrm{B}_{7} \ldots \times 40$ days and 40 nighta." | 21. John Il 80 ........... 40 til yeera." |
| 10. 2 Kingr xHL 1...... "40 yeera." |  |
|  |  |
| 122 Chrom xxiv. 1... "40 yeara." |  |
|  | Lboupapd' |

"It is evident from the nametives in the Pentaterch, as well as in other books of the Holy Scriptures, that in ancient times the nomber 40 was considered not merely an a round number, bat even as ane totally pague and undetermined, designating an uncertain quantity. The Isratiten remnined in the desert daring 40 years; the judges, Athniel, Ehad (Septuag.), Debors and Gideon, governed each 40 yeara. The same did Eli, after the Philintines hed revaged the country during 40 years. The 40 days of the increasing and the 40 days of decreasing of the waters of the Deluga are well known. But one of the most
triking jnstancen of this use of the number 40 is 2 Sant. xT. 7, Where, during the 40 years of David's reign it is said: 'And after 40 years it happened that Absalom weat to the king and said, Let me go to Hebron, that I may fulfil the vow whioh I have made to Jehovah.'
" The Apocryphic books go atill tarther. Acoording to them, Adsm entered the Peradise when he was 40 daya old-Eve 10 days later. Seth was carried aray by angela at the agt of 40 yoars, and was not eben daring the enme aumber of days. Joseph wha 40 years old whes Jecob came to Egypt; Mosea had the same age when he went to Midian, where he remeined during 40 yeare. The anme nee of this number is slso made by the Phopiciens and Arabs [See Dissertatio Bredovii de Georgí Syncelli Chronographia (second part of the edition of Bonn) Byncellas, p. 38, seg.] We must not forget hereby the Arbaind (the forties) in Arabian litersture; a sort of books which relate none but stories of 40 years, or give a series of 40 , or 4 times 40 traditions. They have a similar kind of books, which they call Schaydt (gevens). Their calendar has 40 rainy and 40 windy days. Also in their laws the numbers of $4,40,44$, ocear very often. In Syria the graves of Seth, Noth and Abel are still shown. They are boilt in the usual Arabian style. Their leogth is recorded to be 40 ells, and thus I have found them by my own measuring. This may also oocount for the tradition that the antedilurian mon wore 40 ells high, that is, not 'aboat 40 ells,' but 'very tall.' Only efterwarda was thin expresaion so naively misupderstood. The Arabs give, in the converastional languge, the same sense to ditin, 60 , and mieh, 100. I have already obserred, in en earliar writing [ $Z$ wei Sprachargleichende Abhandusngen (Two leoturea apon the Anslogy of Languages), Berlin, 1886, pp. I04, 189], that of all the Bemitio numerical word, arbx, 4, is the eole one which has no connexion whatever with the Indo-Germsaic, and seems rather to be derived from rab, 27 , 'much,' Tlath, the locast.' This would account for its undeternined use.' ( 544 )

The bistorieal spurioumese of the nameral 40, in its application to buman abronology, may be illustrated hy another example out of many. It is enid, "Ioreel Welked 40 yours in the wilderness," (545) atter the Exode. On which Cahen: -
"It is probable that this itinerary contains but the principal atations: they are in number 42. In the firat year they count 14 stations; in the last, or 40 th, they count 8 stations; thas the 20 other stations ocoupied 38 years (Jar'hi; in the name of Mobes the presaher). According to the ingenious remark of St. Jerome, the number 40 seems to be corgecrated to tribulation: the Hebrew people bojourned in Egypt 10 times 40 years; Moses, Elias, and Jesus, fasted 40 days; the Hebrew people remained 40 yeas in the desert ; the prophet Etekiel lay for 40 days on his right eide. This aocordsnoe shows us that Goëthe had some reasons for conjecturing that the 40 yeara in the deaert might very vell posaess no hlatorlcal vertitude." (546)

Again-" Thus, during thees 40 years, notwithatanding the misershle life which the Inraelites had led in the desert, maugre the plagues, the maladies, and the wars, there was bat a dimination of 1820 Iaraoliten and an augmentation of [just!] 1000 Levites. Buch reselta exist not within the domain of natural things, and consequently possese nothing historical,". . " Bavage tribes sing of their petty quarrele, their conqueate and their disssters, upon the lofty tone of, and even loftier tone than, the greatest nations. Thas the septs along the river Jordan had their poete, their national ballads; these rongs, thero, as everymbero elso, bave preceded history. We bave jnst raed extracta from thase productions, perhapa the most ancient that have reached ns. It is probable that to them were aftermarda edded some events of a date much later than the political existence of Moabites, Edomites, \&c." (647)

Finally, speaking of the " 40 years" in the Siasio desert, Cahen observes:-
"One finds in the Pontatench only those events that ocearred during the firgt two and the luat or fortich year. The history of the intermediary 87 yeara is totally unknown to 2 .e.' (648)

All theological oonjectures about this unhistoric interval are merely conjecturea theological; because the Jewn used the expression "forty," es we do "a hamdred," for a vagroe number of saything nncounted. To Lepsiug's numerous illastrations of the utter impossibnity that nneduceted nations or individuels can poesess any clear ideas about dates for cirenmetances that may hare heppened during their respective lifetimes, we might add two parallels - the flrat (or Oriental) is that, in Egypt, if fou ask an intelligent hut illiterate

[^242]mative bia sge, he canbot express it by years; but replies, that hie stature was aboat $m$ high (holding oat hig hand at the elevation required), foe aymen en-Nundra..." in the dey of the Christiaps;" alluding to Nepoleon's conquest of Egypt, 1798-1802: or else tells you that he had not a white bair in bia beari, fos hurrichet $\alpha-Q a i d a,{ }^{4}$ at the fire of the citadel " of Cairo, 1826. The aecond (or Ocoidenta!) is, that no Indian, or Negro, in the United States (seve among the paucity that have been educated), can tell you bis own age, by years; hut the one detes either from such a time when "he and Col. - ahot thet bar ;" or the other from when he butted for cheeses agalnst another nogro-kephalus tit anch a local election.

This introduces a question apon which Eupopean hiblical commentators, ignoradt of living Orieatal ountoma, beve gone badly astray. Whenever the number of persoaeges, in a given Hebrem pedigree, has heen found infufficient to ocoupy (hat is, to fill mp matarilly, without improbable longerity), the length of time required to rait the ehronologicat ecale $a$ given commentator may have elected to invent or follow, it has been incontivently essomed, that the Hebrew numerals were right; and that the momaly proceeds from the eceideatel loss of one, or more, intertnediary ancestore, in the genealogical lise Thus, begr the learned Dr. Priohard, (549) adopting the suggantions of the great Michmin : -
"The result is that the difficulty whioh aeama to have induced some of the eneienta to alter the tert requires a different explanation. It can only be solved, st it would oven, by allowing an omintion of several generations in the genealogios of the Ierselites. As prosent only two generatlona are interpoeed botween levi and Moses it is probable thei soveral are omitted."

Eo again the Abbe Glaire, (550) in respeot to the two genealogies of Jowph :-
"The firat (mathod) is to suppose that these aatmes (Ochorias, Joor, Amonias) Tere wanting In the genealogical tables the eqangelint made nse of ; an bypotheaia the more probable that the names of intermediary persons ars ofteb misaing in many genealogits of the Oid Testament. . . . Radras, in ins genenlogy, omits seven of his ancestors, by jumping from Amariss to Achitob II, father of Badoc II. . . . The gedeslogy of Saul, for a space of 800 rears дamea but seven persons. . . . From Mardonheus to Jemini of Benjamin, who lived 1200 yearm before, bat four art named. . . From Reaben to Beem, who wis carried captive by Tiglath-pilesar, they give us but 12 generations to fill a apace of more than 1000 gears In the genealogy of Judith, for a space nearly equal, there are but 16 generationt By firing, as is commonly done, the generation at 88 yeara, one pervelven that there are a good many degreas omitted in these genesalogies. . . . Grotius, upen whose noquirements obs may contide without difficulty, assomes that this happons frequently, as may be geen in geneslogical trees. Sape eodem temporis spatio familias inter as comparatar generationet habers unam aut alteram plurce ef pauciores; guod in omnibus stemmatibus videre est. Veut-on un example d'une grande inégalité de generstions dans les différentea branchea d'une mome souche: Scripture affords one very atriking. The children of Jacob (Numb, i. 8) each formed a branch or tribe. When, a year after their issue from Egypt, Mosec, by the order of Gon, caused the numbering of these tribes, thero was fonnd among them a prodigiout inequality; but the most surprising is that which was beheld between the tribe of Levi and that of Judah: the latter comprised 74,000 males above the ago of 20 yeara , and the former 22,300 connting (even) those sbove one month. ${ }^{1 "}$

One would suppose, so naively does the Abbe eccept all these ntmerale as historical, that he was actually present! But these violent btatistion are ausceptible of more rational solwtion. Such sttempts at revoncilement have their abique origin in the nocritieal idest of eminent acholars upon the true ages of the composition of the fragments extant of Jertsalen literbtare; which the perusal of our ruppressed pages migbt supersede: and siminar weak explanations would not have been thought of by any Orientaliet (Fresoel, Lane, of Layard, for instapea) who had actually resided among Semitic populations. Lepaias (551) is the first, that we are aware of, to have placed the matter in itg true light.

We know that unlettered Arabian Bedawees do preserve, for centuries, orally from father to son, their individual and clannish genealogies; and thia too for an almaat infnite namber of generations. They even than eonsecrate, legally, the pedigroes of their blood

[^243]horset. (562) But, at for defining the length of time each triba, man, or horse, may here lived, that the Bederwee has no means of doing beyond his own grendfather's lifotime $;$ and for whiah be has no armual aelendar. Thus, in ente-Mohammeden higtory, "the battie of Kharns," fought by the Xaad tribes ander Koulayb-Wal againat the Yemenite confederecy, is the earliest slend-point of Arabian bistorical tradition; (558) bat the ors before Ishm - 260 ... to which such battle is anigned, hes been computed, for theae mild children of the desert, by later and highly-cultiveted Arab bistorians, and at beat oonjecturally.

It would be foolish to deny to the sedentary and somewhat edocated Hebrewe, of days merior to the Captivity, equal faculties of preserving their own genealogies, that wo recognise among cognate Somitish and atill more harberous tribea of Aribia: nor is thero eny resson to donbt the existence of gencalogical lith, stretching beckwards for meny generationa, from the dayr of Barn (554) These may oven have ascended, ancestor by abcestor, to the times of Abrehm (555) But it wan ofe thing to preserve, through aaga, rythme, song, or ord legend, the mamea of predecessors in their natural order; and quite another to gress at the duration of these anceatora' respective lifetlmes, or to infer, through tradiLionery events with any of the carlier ancestors coetaneous, the chronologioal romoteness of the age during which they lived, excepting approzimately. In consequence, Lepsius (and we ontirely egres चith him) sumbing, that the genealogien of the Hebrows are probsbly right; but thet the chronological computations acoompanying these lints are certainly wrong. Indoed, of this last frot there aan be no doubl, when we remember that Rabbi Hiliel, in the fourth oentury after Christ, was the firat to regulata Jowish obronology hy the verbal literalness of the Hebre" Text; independently of fabrious namerstion euth as that borrowed by Jomephat from an Alemandrinn Greel syatem adopted by the writers of the Septsagint. The manlfest interpolation of an Egyptian "gothic-period" of 1460-61 years (so felieitously discovered Mr. Sharpe, supra, pp. 618, 610), obriates further necessity for reearrence to the spurious chronology of the Greek version.

These nomerical estimstes, wo now see, are hoth modern and arrodeaus. Dut, to convince the reader of the fact; and to prove that the 480 years between the first Temple and tha Exodus are erronpous; we copy Lepsius's synopsia, ather remerklog that, just at in all macient pictures the artist geve colosesl proportions to the figorea of gode, or heroes, while the plobsian clemes receive pigmaic stature, so emong the entique Inralites, in their orgando sbeenee of "art," it was oustomary to esolgn to the royal line, or High-Priest pedlgree, the attributes of longevity together with extensively-prooreating eepabilities; and to measure anch exalted patricians by generstions of $\mathbf{4 0}$ yoars; at the amme time that to the valgar hord were asoribed generations of only 80!
"I give here a Table of the principal genealogies, in which the Lovitleh generstiona follow in the same order is they are recorded in 1 Chron. chap. 7 (aceording to the LXX; in the Hebrew Terit oh. v. and vi.). These are preooded by the genealogiond obain from Lovi to Zadok according to Josephus, and also bis list of the Bigh-Priets from Aeron to Zedok. Laptly comen a genealogical table of Judab. Albeit I have excluded some otber gonealogles, an gr., the three of Ephraim (Numb. xxi. 85 -1 Chros. vili. 20; xi.24-27), beeance thoy were in evident confunion and led to no result.
"The first colvmn," says Lipeives, (556) "contains the patriarohs from Abraham to Amram; next, 12 leaders (chiofo) of the people, beginning with Moses, who seem to huva been regarded sa reprenentativen of the 12 gencrations of 40 yecres each; and thas to heve coosoioned the caloulation of 480 years [as the chronologioal intertal between the Temple and the Exode]. Thiald and also Beatifice give another list-for the subject, in general, admita of no presision: albelt, for us, the recognition of the divinion into 12 parfe of this period is important. But one, lizewise, (VIII.) of the sfortand gonealogiea (1 Chron vii. 89-48) containg 12 generations of ane and the tame family. It might therofore be posaible that this lant list, and not the other, had originated the caloulation of 480 years. This list has the peculiarity of beginning with Gresox, the first-born of Levr. But the most noble line of the Lovites was that of the Bigh-Prients, who deecended from Aaron and Kabsth (I.): this list, wa Fell an that of Mणst (IX.\}, contains only 11 generations. This may be the roacon why the LXX count but 440 years."

[^244]THE JUDAIC LINEAGEA


- The practioal rearalt of which is, that all ahronologers, by not perceiving the surpluage due to these sbeard generstions of 40 years, have sasigaed aboat $160-170$ jears too manh botween Solowar and Mosza; and ago, the Exodus mist deotend from a. 0. 1491, ita dato in the English veraion, to в. c. 1314-'22, cirea.

After studying the sbove Table, the rasdor may perhape peroeive with wa sovel thinge not generally known: 一

1gt. - That the whole of this Jewish chronology is anhistorical; becanse it is not bused upon ponilive records of the nomber of yans esoh personago lived, bat it was fabricated, long after their times, by memi-aclentifc, sami-litorary, compatators; whose process wis to ssriga impossible generations of 40 years to their country's pre-historic heroes; and then, having obtained a maximum-period in which the lives of such worthies were thereby icolosed, these modern computators (prohably about the $8 \mathbb{d}$ efnturg sfter C., Fhen the Books were ro-transcribed into the squareletter alphabet) apportioned to esch hero, in the anew-manipulated Hebrey Text thoee irreconcileahle nemerale that have come down to our time.
2d. - That, whether the genealogical entalogues be Hght or not, the ohronologg is a later interoalation

## FROM ABEAEAM TO DAVID.

| TV. | V. | VL. | VII. | FIII. | II | Datris Partol- |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Centril | Oemerel | Hetirs | Prealage | Amery | - | afe to Jonal. |
|  |  |  |  |  |  | Findh 1v, 18; |
| 2 S | $1 \mathrm{Cram.fit}$ | -8, | sa | -1 | $\mathbf{4 - f t}$ | Math i. 8-8; |
| (-71.) | m, | (-III) | (-IV.) | (-II) |  | L-matil 82,88 |



[^245][^246]of datar for the Mossio Fiodas, an computed by Uaber from the Hebrew Teat, and geamelly appended to the Figgliah translation arthorixed since the reign of hing Jamea, a. D. 1611; and by Feles from the Greek Septuagint tertion. The new synchronisms between Helirew nad Egyptinn events, put forward by Lopelon, may mist the hlerological student in authenticatiog monomental history through whet sre adll alled the atabliohed detes of Scripture. It will be remarked that, while Bales extende, Iopaius reduces the entiquity asaigued to esch Imrelitioh ert by arehbishop Usher.

## Bialical Etrofromiona.



Jewish compatation by "forties" sescen 00 eoon as we mond bryond Mosen; who whs 40 yeart old wher ho fied from Egypt; 40 years odder when, aftar dwelling vith Jethro, he returned to liberate bis people; and olded by 40 more yeare whon he died et the age of 120 - "but no man knoweth of hla sepulohre urto thir day."(589) Vico sopplien a formulary:

1.     - The indefinite nature of che humas mind is the ouseo thet man, plonged in ignoranco, makes of kimatf the rule of the Univerme.

It is from this truth that are derived the two haman tendenofes thas oxpressed: Fama tracit aundo ef minnai prosentia famaio. Pawe hat travelled, sisce the worid's Crestion, very long road; avd it is during the royage that she has colleoted opisions so magnificals, and so oxaggerated, upon epochas which to us are but imperfectly known. This disposition of the homan intellect is indicated to wis by Tacitus, in his 'Lfet of Agricols,' where ho telle us: 一 Omue ignotum pro magnifico at." (660)

From Mosea beokwards to Abraham, paat-Chriatian Jewish compotatian aramed 100 years for esch generntion; bat overy dosen MS8. of the Taxt or retsions diffor; and the goperal principio followed seems to have been, to make generations the longer, in the ratio that the lifetime of a given hero was more and more distant from ench Judegan writer'a day. The model copied wan a Grecian theogonio idea, because the Redralc Jows prooeeded by the four Heriodic ages; considering thedr ome period to be the Iron; the Derldic the Brazen; the Mosaio the Siloer ; and thet from the Abrahemio to the Ademio, to have been the Goldea age of Hebrew hmmanity. To Masen, in consequenes, they asadgred only 120 years of longority; but his wortbler antecedents hed thedr holier livea extended elong a aliding meale, of which the anmbers 240, 480 , and 060 , art the eimple arithmeties proportion: their divisor boing " 40 ."

Hore, then, we have finally arrived at the great fat; whioh, in different or less ontepolen words, all the soientific anthora we have quoted are at this day agreed upon: vis. : thit the Jees knew not an atose more of "Humanity's Origine" than $w$ do now; and that, wo they really hed no hamen hlotorical suceator before Abrahem (whose epooh fioats between Lepsias's parallel at 1500 , and Heles's at 2077, 2. o.), there la no dironology, itrichy mooalled, in the Bible, enteriorly to the Moealo age; itself raghe for one or more generationt

This poeited, we shell close further argoment تith a Table of Habre Origias; conformsbly to the seme principlea upon which we have already tabalated ite distinot histories of Egypt, Ching, and Asayria Rech of these nationnlities posmesese its hialorical, semi-kirtorieal, and mythical times. And, innamuth as it'is anoeded by overy trae historian that the Isrmelites fandor the literary espeot in whish they first present theonselves to the gentile world), hed beon proviously edueated in Cheldear; it will be inturaring to piace the ante-dilavien "patriaraha" of the preoeptors aloagdde those of the pupila Beropas, Philo Bybilus, Jolins AfHosnas, Aerender Polyhistor, Bubobing, and the Syncellus, have
 ars cootssible in Cory's Anciant Pragmente, of in Bunsen. (561)

[^247]
## Mrtholooical Periods. <br> Sywebolical Ante-Dilurian Patrizrehe.



## Gealdayo Etheonooical Diviaion - [contalined in Xth Genesio.]

Theoratical Pat-Diluvian Commencunats.


Basthomef Theory yon Divindity of Tomars.


## Heprit Geographioal Origite.

|  |  |
| :---: | :---: |
| E0LCKh | = Blucen (Citg). |
| Aabar | $=$ theyonderer (Trito). |
| Pelua | $=\mathrm{brpth}$ (Rarlihqualif). |

## Eablifat Lrormdaty Ayghatom.

20J.
SeRTG.
Fskitr
Tharime
\#TL.

corem trontarith orvanf



MANKIND'S CHRONOLOGY.

## CHBONOLOGY-HINDOO.

the light, the mortale, and the watern. This walar hat the [r्glon] abore the olky, (306) which the

Athoagh, in our Table of Alphabetical origins, we bave dealt as atenify with muhistorionl Indian documents, as with the melsphysical fables of all other nations, it may be well to say a few panslog words upon Hindoo ehronalogies; lest it be arpposed that wo are not prepared to reagitate that which, to us, is no longer e "reshts questio." Referring the reader to the citations from Wilson, Tornour, and Sykes, therein udduced, we repest, that there is no convected ohronology, to be sottled archmologically hy oxiating monoments, throaghoat the whole Peninsols of Hindostan, of a date anterior to the filh centary E .0.

That vist centre of oreation awermed fith varied indigenous and exotio popalations, from opocbss coeval with the earliest historical nations; bat, if any of these Inding philosophere ever composed a rigidly-shrovological list of events, we heve lost the reeurd; or, What is more probable, the chronological elemont was manting in the organism of Hindoo minds, until the latter received instruction (from Cbaldmen megh ecattered by Darius) through the Persians; - tuition greatly improved after contect with the Beatrisa Oreets daring the third centory n. o.

In any case, the extract sobjoined will ahow that the antiquarian drams of Sir W. Jonem and of Colebrooke are now fleeting atay.
"Whether safe historio ground is to be foond in India eariier than 1200 g .0. , aceording to the chronioles of Kashmare (Radjarongini, trad. par Troyer), is a queation inrolved in ohsourity; while Megenthenes (1nciea, ed Schwenbeok, 1846, p. 50) reokons for 153 kinge of the dyasaty of Magadhe, from Mann to Kandragupts, from 60 to 64 centurien; and the estronomer Aryababhatte places the beginning of his chrodology 8102 B . c. (Lasean, fnd. $\Delta l / \tau$ thumsk., bd. L, a. $478-605,507$, and 510)."

From Humboldt (566) we pass on to Prichard; whose Hindoo preposseasions of 1819 (567) have not only been nallified by Egyptian discoveries, bat, with the learned athnogrepher'm usual candor, have become greatly modified by bis own leter refleotions.(568) The inquirer can judge from the porusal of the passages referted to whether he osn make out a fixed chronological ides, in Indie, prior to the age of Budha in the sixth century n. c.

Lepaius (569) cantenta his objecto (oonfined to a general review of the world's ahronological elemeats) by mentioning, that the Hindoo atronomical oycle kali yuga falls on the 18 th Feb. 8102 в. C. ; that the Cashmeerian king Gonarda I. is aupposed te bave raigned sbont b. c. 2448; and that ling Fikramaditys's ore is fixed at b. c. 58. But he almo ehows that the 4th-5th oentariea B. c. comprise ell we asi depend npon, arohoologionly, in Hindoo history.

However, by opening the excellent wark of De Brotonne, (570) the reader will eacily perceive how the Chaldaen estrological cyele of 432,000 years became extended by later Brabmanical pradits to one, eqnaliy fobulous, of $4,820,000$ years: and ineomuah as thia faot marely invalidates Sancatit hallucinations the more, we are fain to lesve Findoo ohronology in the same "nlough of despond" in which we found it.

Reader 5- the tank proposed to myaelf in the properation of these three supplernertary Esabys bere ends. It wes ansnmed onder the following circomstances:-

[^248]Within the paat five years, various seotaries (momentarily suopending polemice amongrt one another) had entered inte a sort of tacit combination to assall those whe, like Morton, Noth, Van Amringe, Agasoir, and otbers, were devoting themsolves to anthropological rasoarchea. .Each of the sbove-named gentlemen has soccessfally repelled the Intrasions of dogmatism into bis enpeoiel scientile domain.

In these literery "melfen," it han so bappened that my surame bus been frequently made the terget for indiscreat allusions on the part of certaln teologantri; withoat eny provocation having been given on my iide, through e single personality, in the course of ten yeare' lectoreship apon Oriental archeology in the United Gtates. To treat auch in any other manner than with silent indiference would have baen onbecoming as well es, at the moment of each offence, unavailing. I preferred abiding my own convenience; end, in the foregoing Part IIL, have indicated an easy method of carrying "the war into Africa"

I believe that, theroby, good serrice is done in the genersl cause of the adveneament of knowledge, and in the special one of my favorite atudy, A reheeology. Geologista, Neteralists, and Ethnologisth (absarbed in the promotion of positive science throagh the disoovery of new facts), have rarely devoted time adequate to the matery of Hebrical litersture; end, in consequence, they are continaslly laying themselves open to ebsgrin and defeat in the areas of theological Freoglingr. My former pursuits (is Muslim lands) tere remoto from Nataral goience, and at they disqualify me from abaring the labora of its votaries, I have thought that a oontribution like the present, to the biblioal ermory of ecientific men, might be of atility; even if it should meroly spare them the trouble of ransecking for anthorition generally beyond the ciroumfarvoe of their higher ophere of researeh: at the anme time thit a work sucb as "Types of Mankind" vould be deficient onleas the Hobre五 department of tit themes were to some extent complete. To future publication [supra,
"pp. 626, 627], I reserve further analyses which, without these preliminury Fseaya, would be unintelligible to ordibsry seriptarsh readers. Coaflent of her own atrength, Archeology (lat one of this science's thoussad followers bint to ber opponents) neither conrts nor deprocates biblical or any other agitation, add will proseonto ber investigetiona peaceably while the can, otherwise when sho must.

Repasting the direct and masly language of Luko Burke - to whase conception of a real "Ethnologieal Joaraal" scientific minds will some day accord the bomage that in ita dre:-
"Por all our argoments, there is the ready enswer that our atatements directly contridict the express words of Scripture, and mast therefore be false, bowever plaveible they may appear. We may reply that tho Ford of God cannot be in oppodition to geauite history, any more than it can oppose any other trath, and that therefore the pasenges in queation cennot be a portion of this Ford, or if so, that they eannot have hitharto been properly understood. But experience has abondantly proved that suob answors as these give sutisfaction to very fow, until facte have become so numerons and unequivocal that forther opposition is madness. In tho meantlme, a war of opinion rages embittered by all the virulence of aectariad partisanship, and the oredusoue and simplo-minded are tanght to look upon the advocestes of the new doetrines so the enemies of morality, roligion, and the best interests of man. Por ourselves, we bive no ambition to eppan in any aach light, nor ahall we quietly submit to be pleoed in such e position." (571)

And for myeelf - Fhilat thoroughiy endorsing the sentinetate of a Foluod friend and colleague - I eannot betler express the feelings with which I close my Individusl portion of an undertakiog that has occupied the thoughta and hands of aome men not unknown in the world of acience, then by applying to our aningoniste the last worde ever written by me at the dictation of him to whom, with being itself, I owe all that mind and heart atill bold to be pricelens after more the forty yesrs' experience of a wanderer's life: -
"La medicina diverta amatra. Spero che sard salutifera. Intanto, si prendert."(572)
(Hownids-Motiliz Bat, golh July, 1Bss) G. R. G.
(B71) "Crilied Analyels of the Hebrew Chropology"— Ehin. Jowr.; Loodow; Na. I. June, 1848; pp 9, 10.



## APPENDIX 1.

BRFERENCESANDNOTES.

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14 Geresis, vi2., 19-23. We quote the Hobrew Text; referring the resder to Cahen, Le Biblo. Traduction Nouvalle, Paris, 1831; Tom. i. p. 21.
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If We ought to mention that Dr. Pickering favored us with the sight of his pages wide they were yet in "proofs."
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40 Edwards, Des Carecteren Physiologiques den Races Humaines, \&cc., Paris, 1899.
41 Op. cit., p. 22.
49 Peulmier, Aporçis gonealogiques sor les dencendanta de Guillenme, Rev. Archóol, 1845, p. 794, seq.
43 Virey, Hist. Not. du Gepre Humain, Diec. Prélim., i. pp. 14, 15.
44 On the question of hair, congult the microscopic experiments of Mr. Peter A. Browne, in Proceed. Academy Nolural Gcienees, Philade!phia, Jan. and Fob., 1851 ; atso Ibid., in Morton's Notes on Hybridity, wecond Latter, to Edisore "Charleston Med. Jour.," 1851, P. 6.
45 Wood-cut, fg. 2. Italie, Didot'a Univart Pittoresque.
46. August, 1849; American ed.

47 Edwards, op, cit.
48 Woof-cut, fig. 3. Pouqueville, Grèce, PL. 9.
49 Wood-cut, fig. 4. Op. cit., PL. 84.
50 Wood-cat. fig. 5. Bunsen, Eggplena Stelle, i. i, frontimpiece.
31 Wood-cut, fig. 6. Pouquevillo, op. cit., P1. 85.
52 Wood-cut, fig. 7. Romeilini, M.R., Pl. xx., fig. 66.
33 Wood-cut. fig. 8. Ibid., Pl. xxii, fig. 88. N.B. The profiles are reduced with eractitude; bul we beve sltered the eyes from the Egypisan canon of art to oust.
34 Edwards, op. cit. Mr. Gliddon's two yeare' residence in varions partg of

Nan (of Nader, ta)
Greace led him, he telle me, to obearre the same faet : particularly errong the Spezioted; whence also bprung Canstia, the bravent Greek Admiral of the Revolution, - J. C. N.
55 Etudes, pp. 153, seq.
56 Wood-cut, fig. 9. Cranin ER. p: 34 ; from Rosellini, M. R. 161 ; M. S. iv. 53, 62, 250. Compare Wilkinson, Manners and Cust., i pl. 62, fig. 2, $a, b$; and p. 367 ; with Otburn, Teatimony, p. 137.
57 Morton's inedited Letter to myself, "PhiJadelphia, 23 Nov. 1842."-G. R. G.
58 Layard, Babylon, 1853, pp. 144, 231. We attribute difforences of physiognomy chiefly to the ethnographic inferiority of Aamyrian artists.
59 Phys. Hiat. 1841, iji. pp. 2s-5.
60 Verieties of Man, 1851, pp. 551-2.
61 De Brotonne, Filistions et Migrationes des Peuples, Paris, 1837.
62 In order that we may not be sumpected of constidering Plato's ethical romance about the "Alalantic Ielea" to be historical, we refer the reader to Martin, Eludes sur le Tineeo de Platon, cited beroinalter.
63 The Archaology and Pre-historic Annala of Scotland, Edinburgh, 1851, p. 700-1.
64 Genesia xi. 31 ; xii. 1, 2, 5 - Chhen, i . p. 31.

65 Genesis xvii. 5 ; Ib., p. 42.
E6 Geneair xvii. 15 ;-Lanci, Paralipomeni 1845. T'ravellera have not only busted for, but narrate how they heve actually found the "double cave" they calt Machphelah! (Vide report of SyroEgypt. Soc., Nov. 8-in London Atheneum, Nov. 19, 1853 ; p. 1391.)
67 Genesis xxiv. 3, 4 ; - Caben, pp. 65-6
68 Genesia xi. 45 ; -Lanci, Paral., i. p. 25.
69 Genesis xymviii. 2.
70 Exodus ii. 19.
71 Exodue ii. 21.
72 Exodus xii. 38 ; -Cahen, Tent, ii. p. 50.
73 Leviticus xxiv. 10.
741 Kings xi. 1, 2.
75 Cranis 今g., pl. xi. fig. 2; p. 47.
76 Birch, Criterin, in OCia, p. 84.
77 Jayard, Babylon, p. 610.
78 History of the Jows.
79 The Armonean, Now York, 27 March. 1850, cootaina a confirmatory article on the Jowe of Malsbir, tramaleted from the Pariaina "Archiven Ireelites."
80 Misaionary Remarches, p. 308
81 Remarts on the Matn'Hafar Tomar, or "Book of the Letter," an Ethiopic Manuscript: Syro-Egypt. Boc., London. 1848.
62 Encyclopadia Britannica
83 Phys. Hist., 1844, iv. pp. 82, 83.
B4 Wood-cut. fig. 13-Dubeux, Tartarie.
ss Bortow, Gipgies in Spain.
86 Lest our ponitions should be questioned, we refer to Prichard for Continental inatences, to Wilson for tho Pre-Celtic in Scotland and Scandinavia, to Logan, Crowfurd, and Earl, for those among ialanders of the Indian Archipelago.
f7 Races of Men; vol ix U. S. Exploring Expor., 1848, p. 305.
B8 Wood-cut, fig. 14-Layerd, Babylon, pp. 152, 153.

Na (of Nomen, Ac.)
89 Wood-cnt, fig. 15-op. cit., pp 582-584.
90 Wood-cut, fit 16 -op. cit., p. 105.
91 Wood-cut, fig. 17-op. cit., p. 583.
92 Wood-cut, fig. $18-0 p$ cit., p. 538 .
93 Wood-cut, fig. 19-Wikkinson, Men and Cust., i. p. 384, pl. 69, fig. 8.
94 Lepsius, Auswah!, Loipaig. $1340, ~ " C a-$ non der Proportionen'; ; - ibid., Brieso tus Egypton, Berlin, 1852, pp. 105, 106 ; -and Birch. Gallery of Antiquities, Br . Musearm, pi. 33, fig. 147.
95 Rev. Archéol., 1844, p. 213, seq.; 1847, p. 296, seq. :-Commentary on the Cnneiform Inacrip., 1850, pp. 4-7.
96 Wood-cus, fig. $20-$ Botte, Mon. de Ninive, pl. 36.
97 Wood-cut, fig. 21-ibid., pl 68 bus.
98 Polyhym., luxpü. ; Bonotni, Nineveh, pp. 182, 301.
99 Wood-cuts, figs 22, 23 - Botta, op. cit, pl 14.
100 Wood-cut, fig. 24 - Lettrea de M. Both sur ses déconvertea à Khonabad, 184 , pl. xxii., and p. 28.
101 Eseai do déchifrement de l'Berivere Asytienne, 1845, pp. 28-25.
108 De Longpérier, Galeris Ansyrienge, 1850 , P. 16 ; and Nos. 1, 12, 27, 33.

103 Gliddon, "Hist. Sketches of Egypt," No 5, New York Sun, Jan. 14, 1850 .
104 Wood-cut, fig. $25-$ Botin, Mon. de Ninive, pl. 43.
105 Wood-cut, fig. 26 - Layard, Monumeata of Nineveh, folio pl-42
106 Wood-cut, fig. 27-Layard, Bebylon, pp 150, 143-4.
1072 Kinge xviii. ; Ieainh mervi.
108 Wood-cut, fig. 28-Layard, Babylon, pp. 617-9.
1092 Kinge xv. 19-21.
110 Wood-cut, fig. 29-Layard, op. ciL, p. 361.
111 Vide infra, Part III., p. 714.
112 Deuteron. xxiii. 8,9 ; Cahen, v. p. 99.
113 Egyplian Cartouchen found a Nimroad, R. Soc. Lit., Jan 1848, p. pp. 164-71

114 Mr . Birch's tranalation-Private letter to G. R. G.

115 Wood-cul, fig. 3I - Rosellini, M. R., pl. xii. fig. 46; - Conf. Bursen, Sygptena Stelle, iii. p. 133.
126 Bonomi, Nineveh and its Palacea, 1852, pp. 77, 78
117 Babylon, pp. 153-9, 280-2, 630-1.
118 Egypt. Intecrip. in Bibliothèque Nationaje, 1832, p. 17.
119 Wood-cut, fig. 32 - Layard, Babylon, p. 630 :- Lopsius, Dentemālor, Abıh. iti BI. 88.
120 Babylon, 62J.
121 Birch, Stat. Tablet of Karnuc, 1846, pp. 29, 37 : - Gliddon, Otia Egyptiacs, $\quad$ 103.

122 Birch, in Layard's Babylon, p. 630: - or Lepaius, Auswahl. Taf. x1. line 21.
120 Wood-cut, fig. 33-Robellini, M. R., pl.i. 6 g. 2: - Conferre Lepsiut, Denkmaler, Abth. iii. BI. i., al Berlin. Lopeitus (Letters, pp. 278, 381) callo her Amunoph's "mother, Anhmes-nufre-Ari"-"Amenophis I. and the black Queen Aahmesnefruari," That bhe quainted black, os well as red, no one disputes; but did the Negro-black pigment ever accompany such oateological structure ?
124 Crania EEgypt. p. 47.

Na (4) Notes, 4)
125 Wood-cota, Ggs, 34, 35-Lepsius, Denkmiler. Altes Reich, Dyn. 1V., Greb 75, Abth. ii. B]. 8, 10.
126 Wood-cut, fig. $36-$ Bunann, op cit. ii. Frontippiece.
127 Wood-cut, fig. 37 - Afrigre Ancienne, Carthage, Univ. Pittor, from a cois.
128 Wood-cut, fig. 38 - jdem.
129 Wood-cut, fig. 39 - Romellini, M. R. pl. 157; M. S. iv. p. 287:-Osburn, Egypi's Testimony, pp. 114-6, fig. 1.
130 Wood-cut, ip. $40-$ M. R. 151, M. S. iv. p. 82: - Wilkinson, Man. and Cuat. i. pl. 69, 6g. 7: —Biteh, Stat. Tablet, p. 34.

131 Wood-cut, fig. 11-M. R. 161, fig. 1; 159, fig. 3; M. S. jv. p. 1~): - Morton, pl. xiv. fig. 20, p. 48.

132 Rewlinson, Persien Cuneiform Inacrip. of Behistun, 1847, p. 270.
133 Wood-cut, fig. 43 -. Vaux, Ninoved and Persepolia, 1851, pp. 350-1.
134 Letroune, Cigiliation Ggyptienre, 1845, pp, 30-43.
135 Rawlineon, op. cit. p. xп7iii.
136 Wood-cut, fig. 44 - Coente et Flandin, Perme Ancienne, pl. 18.
137 Rawlinson, op, cit. p. 323.
138 Wood-cnt, fig. 45-Perse Ancionne, pl. 154.

139 De Sacy, Antiquités de la Peree, et médaills den rois Slenenniden, Paris, 1793 ; pp. 12. 64 ; A. No. 3 -recopied in Perne Ancienipe.
140 Woodcat, fg. 46 - Perse Ancienne, pl. 185
141 Perse Ancieone, pl. 49, bsorrolief $A$.
142 Woodcut, fig. 47-Perse Ancionne, pl. 5!, bas-raliei D.
143 Layard, Monumants of Ninoveh, 1849, folio plete; Ninoveh and ite Remaine, ii. pp. 329-31: - well describod by Bonomi, op. cit. pp. 287-95.
144 Wood-cut, fig. 50-Rowllini, M. R. pl. 103, and 87 ; M. S. iii. part 2, p. 157:Morton, Crania Egypt. p. 63.
145 Pauthiar, Chine, pp. 417 427, 429. According to Callery and Yvan (Lo'Insurrection on Chine, depuis mon origine jasqu'à Is prise do Nankin, Paria, 1853) the present Chinese inturgent let, ail thoir hair grow, as their ancestry did onder the Mings, to dintinguiah themselves from the Tarter asurpers.
146 Lopsius, Chronologie, i. p. 379. Ibid., Discoveries, transl. Mackenzio, p. 381.
147 De Sola, Lindenthol, and Raphall; New Tranal of the Eeriptares, Loodon, pp. 46-7: 一Geneais xi. 10-26.
148 Monumenti Slorici, it. p. 461, seq.
149 Apochryphe, xiv. 17.
150 Wood-cuts, fige-44 to 71-Roeollini, Monumenti Reali, pl. i. to mxiti.; and Mon. Storici, ii., "Iconografis de' Feproni," Otr eelections are erranged in accordance wilh the more recent improvements of Egyptien chronology.
151 Priase, Guite dea Monumen de Champollion, 1848, pl. $2:-$ bat compera Lepsius. Denkmâler, Abth, tii. Bl. 100. Ibid., Egyptischen Götterkreib, 1851, pp. 40-5. tbid., Briefo aus Egypten, 1852, pp, 89, 362.
152 Morion, Cr. Ag. p. 44, pl. xiv. 3; from Roenlini.

No. ( $9 / \mathrm{Noten}, \mathrm{d}$ )
153 Coloesus at A boosimbel; M. R. pl. vi. fig. 22.

154 Chron. der Egypter, j. pp. 321-2, 359, 379.

155 Notes upon an Inscription in the Bibliatbèque Nationala of Paris, Trana R. Soc. Lit. 1852, iv. pp. 16, 17, 21.
156 Gliddon, Chaptere, p. 22 ; and Otia, p. 134.

157 Wood-cuts, fig. 71, bir-Roaelini, M. R. pl. 79.
158 Ibld., M. R. pl. clx. lxix. ; M. S. jii. pp. 2, 95, eeq.; jv. pp. 245-9:- Morton, Cr.
 Birch, Tabl. of Karnac, pp. 14, 15-35,
159 Morton's inedited M88, - Letter to Mr. Gliddon, enitited, "Refleciions on Mr. G.'a Ethmological Charts,' 1842 ; corrected by Dr. Morton's nutographic notes, Philadelphia, 23d March, 1843. We shall refer to it as "Morton's MS. Letter."
160 Wood-cat, fig. 74-Roseltini, M. R. clvi. end $1 \mathrm{~m} ;$ M. S. jii. pp. 1 , 433 , seq; iv. pp. 228-44:-Lonormant, Cours d'Histaire Ancienne, 1838 , pp, 922-36:-Chsmpoltion-it-Jeune, Letir, d'Egypte, p. 250, seq. :-Champollion-Figerc, Eg. Anc. pp. 29-31, pl. í; -Wilkinson, Topog. Thebor, 1835, pp. 106-7:Man. and Cunt. i. pp. 364, 371, pl. 62, No. 4, fig. a; - Mod. Egypt. ii. p. I05: -Oaburn, Testimony, pp. 22-7, 114, 149 :-Birch, Siat. Tab. Kar. p. 20.
161 Wood-cut, fig, 75 - Leprins, Denkmäler, Abth. iii. BL. 136, fig. 37 a.
162 Woodcut, fig. $76-$ Rosellin:, M. R. clxi.解, 1; clix. fg. 9; M. ©. jv. p. 150:Morton, Cr. $2 \mathrm{~g} \cdot \mathrm{p} .48$, pl. xiv. 20.
163 Denkmäler, Abth. it. B1, 136, fig. $d$.
164 Woodeut, fig- 78-Roellini, M.R. cixi; M. S. j\%. pp. 91, 251:-Da Saulcy, Recherches, Inecrip. d Vsn, 1848, $\mathrm{P}, 26$.
165 Wood-cut, Gg. 80-Rosellini, M. R. ixix.; M. B. îi, part. 2, p. 29:-Birch, Gollery, pp. 93, 97, p]. 38:-Morton, p. 46, pl. xiv. 24. It is moulded in colors at the Britiah Mrseum.
166 Wood-cut, fig. $81-$ M. R. cli. ; M. S. if. p. 82, seq, $\boldsymbol{i}$ Wikinson, M. and C. $i$. p. 384, pl. 69, fis. 7; -Obburn, p. 33; - Birch, Stat. Imb. p. 34.

167 Wood-cut, fig. 82-Roselliai, M. R. clix. : - Champolion-Figeac, pp, 208-g, pl. 62 : - Hoskins, Ethiopia, p. 329, pl. j. ji.:- Morton, p. 41. pl. xiv. 22 iWijkineon, M. and C. i. pl. iv. p. 379: -Birch, Gallery, p. B0; and Stat. Tab. p. 61 :-Prisso, Salle dos Ancêtres, Rov. Archéol. 1845, p. 1I, and note. N. B. Afler this page was etereotyped, wa rectived Mr. Birch's freshest peper (Annals of Thotmen III., 1853) wherein he asaigna these KeFa to the Island of Cypros. Vide infre, pp. 479-480, voce "KTıM."
168 Wood-cut, Gig. 83-Rosollini, M. R. clix. M. 8. iii. p. 435 ; iv. p. $234:-$ Birch, Gallery, pp. 88-9, 97, pl. 98:-Stat. Tab. pp. 13-14.
169 Woodcute, figa. 84, 83 - Rosellini, M. C. mii.: - Wilkinson, i. pl. iv. $: \longrightarrow$ Cham. pollion. Figeac, pp. 376-8:- Morion, p. 30 ; pl. Ytv. 21 :-Osburn, T'estimony, p. 52 :-HHostios, Eihiopis, plates, part

No. (© Notes, AL)
iii. firtt line, P. 332:-Birch, Glat. Thb., pp. 18-9: - Pickering, Races, p. 372; tho, Geog. Distribution, 1854.
170 Referances at abort.
171 Wood-cut, fig. 86-Romellini, M. C., xliz; M. C., ї. Pp. 254-70:-Wikinson, M. and C.. ii. p. 99 : - Mod. Egypt, 1843, i. p. 237 :-Onbrum, Antiquitios, Relig. Tract Soc., 1841, pp. 280-1: - Keinh, Demonstrations of Christínity:-T都. lor, lllustrations of the Bible, 1838, pp. 79-84:-Kitto, Cyciopredin, i- Pp. 353-4; - Morton, Cr. Fig., p. 47 i - Lepqiua, Denkmäler, Abih. iji, Bi. $40:$ compare ibid., Dyn. IV., Grab I., Abth. ji. Bl. 96 for "chin eproute."
172 Bee references under Nop, 144, 145.
173 Wood-cut, fig, 88-Roollini, M.R., Lxili; M. S., iii. part ii. p. 12 :-Marton, p. 48, pl. xiv. 19.
174 Wood-cut, fig. 89-Rooollini, M.R., clvii; M. S., iv. p. 237 ; Osburn, Test., pp. 114-6, plato, fig. 1.
175 Wood-cut, fiy 90-Iepsizs, Donkmäler, Abth. 1i. B1. 116, fig. 6
176 Wood-cut, fig. 91 - Roseltini, M. R., Inxxiii; M. S.4 jii. part ji. p. 103: -Champollion-Figenc, pl. 79 :-Morton's MS. letter.
. 177 Wood-cut, Gg. 92 - Ronellini. M. R., cxlvex. fig. 7; M. 8., jp. pp. 91-4.
178 Wood-cut, fig. 93 - Rowallini, civiit ; M. B., pp. 234, 239 : m Birch, Gallery, pp. 89, $104:-$ Onburn, p. 27 :-Morton, p. 46. pl. xiv. 23 :-Layard, Bsbylon, pp. 142, 146, 628.
179 Leppiua, Denkmailer, Dyn. XIX. a, Abth. jin. B. 186; compared with Rosellini, M. R., pl. cir.; M. 8., iv. pl. i pp. 228-43. In common with Morton wo were always at a loss to account for the presence of two white recte in Rosellinits copy of this tabloa It turra out that an error of coloring on the part of the Tumcan artizts was the unique caune of such perplexi:lios ; because they havo tinted thin figure light flesh-celor, instead of tapray yellow.
180 Wood-cute, figa. 97, 98-Rosalini, M. R., |xvii, ; M. S., iii. part it. p. $126:-$ Bireh, Gallery, p. 99, pl. $38:$ - Ocbum, pp. 77. 124.

181 Wood-cuts, fige. 99, $100 \rightarrow$ Rooolini, M. R., clx.; M. S., iv. p. 235:-Cham-pollion-Figeac, pp. 30-1, pl. i. fig. 4 :Osburn, pg. 114. 142-3.
182 Wood-cut, fig .101 -Romellini, M. R., cxijii. fig. 9 .
183 Wood.cut, fig. 108 - Rovellini, M. R., cxliij. fig. 3 .
184 Wood-cut, fig. 103 - Romellini, M. R., cxliii. 6g. 10.

185 Wood-cut, fig. 104 -- Rovellini, M. R., exiiii. fig. 3.
186 Wood-cu1, fig. 105 - Rosellini, M. R., cxiliii, fig. 8 .
187 Wood-cul. fig. 106 - Rosollini, M. R.. Ixr. ; and Morton, p. 47. Compare with these heads, and with that ono in M.R., cxliii. fig. 11 ; M. S., iv. p. 96 (aibo Wil. kineon, M. and C.. i. Pp. $370-1$; pl. 62 , Kg. 3, $a$. $b, c$ : what Layard (Bebylon, p. 353) has written about the Shoirdoza of hieraglyphica contrated wilh the Sherstixion in the cubeiform aculpturea.
89 Renearchen, ji., chap. x., xi., pp. 193-205.

Na (of Nam, \& A$)$
189 Ibid., op cit., p. 290. Fow is it pomitle that $\mathrm{D}_{\text {r }}$. Prichard, in 1837, could havo Enown nothing of the trixuphont missione of France and Tucciny to Espyp of $1820-30-$ when all Europe rang winh applaces ?
190 Appendix to first odition to the Natural Hiztory of Man, London, 1845, RP. 570383; quoted in Dr. Pattiorson'a Memais of Morton, pbi supre
191 Sopra i Popoli Stranieri introdoti delle Rappresentinze Storicho de' Monomenti Egriani- Annali dall Inatit. di Corr. Archool., Roma, 1836, pp. 333-50
192 Egypte Pbaraonique, Peris, 1846 , ii pp 352-4.
193 Primo, Trant. R. Soc. Lit., 1841 :-Gliddon, Appeal to the Antiquaries, London, 1841, p. 53 :-Wilkineon, Materie Hieroglyphica, 1824, pert it. pl. 2; and Tezi, p. 118 ;-Top. of Thebee, 1835, p. 420, Ee.:-Mod. Ek., 1843. iii. pp. 223-6;-Hand-book, 1857, pp, so6-7, 392-3:Leemane, Leure i M. Salvolini, 1840, pp. 149-51:-1'Höto, Letirea. 1840, pp. 27, 93, 99, 131, 185, 198:-Pering, Tranc. R. Soc. Lit.; foilowed by Morton, Cr. E8., P. $54:-$ Hincta, On the Egyptian Bielo, 1842, pp. 1, 18-9; Age of the XVIIIt Dynasty, 1843. p. $5:-$ Bunsen, Egyptent Stello, iii. p. 58. The Revue Archoologiquil contains the following-1845. Prime, Legendet Royales. pp. 45i-74; Letre in M. Cham. pollion-Figenc. p. 730 ; 1847, Antiquitio Egypliennes, pp. 693-72s:-Leemans, Lenred M. Whte, pp. 531-41:-1819. $\mathrm{De}_{\mathrm{R}}$ Ronge, Letire i M. A. Meary, pp 120-3;-1851, Maury, Dynaties Eyptiennes, pp. 1e0-2:- Kosellini, Courrouchea, Noe 69, 69 bis: - For. Qurrt; Review. "Eggptien Hieroglyphics," Jan. 1848, p. 157 : - Pauthier, Sinico. Egypt, 1812 , Fromispiece:- Priseo. Suite des Monumene, 1847. Preface:Birch. Tablet of Ramaet II. P. 24:Ampere, Recherches. Rev. den Deux Monden, 1846-7: - Lepaius, Egyptirchen Götrerkroia, 1851. pp. 37-46:Briffe, 1852, p. 369 : - Denkmàler, iii. 111.

194 Denkmāler, Abth. iii. BL. 111. Even Lepsiua's copies slightly differ among them. melres-compare BI. 99 with 100, 103, and 109.
195 Crabis AEgyptiaca, p. 54-from Perting's paper in Prans. R. Soce Lit., Londob, 1813, i. p. 140.
196 Letters, trand. Mackenzie, p. 297. Conf. Denkimiler, Abth. iii. Bi. 113
197 Rowellini, M. R.. xv. ig. 63.
198 Lepsius, Auswabl; and Wilkinton's Tamin Papyrua.
199 Wood-cut, fig. 110-Dyn. XII., Ablh ii. Bl. 141.
200 Wood-cut, fig. 108 - Rosellini, M. R,
 p. 48, seg. ; M. C., i. p. $36:-$ Denk. miler, Altee Reich, Dyn. XII., Abth. ii. B1. 31 .

201 Sist. Twb. Karnuc, p. 5.
202 Hist. Tub. of Ramses II., p. 28.
200 Letter to M. Humbold, "Koruako, Nov. 20,1843 ," London A theneum, 2 Mareb. 1844. Compare Briefe, 1852, p-97-100.

No. (of Noter, de.)
204 Discoveries in Egypt, Ethiopia, and the Peninsula of Sinai, in the years 184218.15 ; Isondon, $1852, \mathrm{pp}$. 108-10.

205 Denkmäler, Abth. ii. Bl. 123-33.
206 Geognostische Karte von Egypten, Wien, 1452.

207 Wood-cut, fig. $111 \rightarrow$ Abth, ii. Bl. 107, Grab 2.
208 Wood-cut, fig. 112 - Abth. ii. BI. 109, Grab 2.
209 and 210 Wood-cuts, figs. 113, 114-Abth. ii. BI. 73 , Grub 26.

211 and 212 Wood-cuts, figs. 115, 116-Abth. ii. Bl. 10, "Pyr. v. Giseh," Grab 78.

213 Wood-cut, fis. 117-Abth. ii. Bl. 8 t "Pyr. v. Giseh," Grab 75.

214 Voodcut, fig. 118 - Abth. ii. B1. 20, 22, "Pyr.v. Giseh," Grab 24; Briefe, pp. 36-4.
215 Wood-cut, fig., 119-Abth.it. Bl. 2, "Wadi Maghara."
216 Abtl. ii. Bl. 39 f; and Brisfe, p. 336.
217 Researches, ii. p. 44. Where not referred to others, our citations are also taken From Prichard.
218 Beke, Juornal. R. Geog. Soc., xvii.; and in Gliddon, Hand-book, 1849, pp. 26-33.
219 Ritter, Gcog., Iransh. Buret, 1836, i.; and Jomard, Notes pour un Voyage dans 1'A frique Centrale, I849, pp. 19-20.
220 This luct is established by D'Eichthal (Hist. et Origine des Foulahs), by Hodg. son (Notes on the Sahara and Soudan), by Pcron 'Trans!. of Yoyage du Cheykh Mohammed.el-Tounsy, by Jomard (Oluservations sur le Voyage au Darfour, \&c.\}, and by Ritter, i. pp. 432-7.
221 Gliddon, Hand-book, p. 35.
$22 *$ Beke, Sectinns, in Map of Journcy ; Jour. R. Geng. Soc., xyii.

223 See all authurities in D'Eichthal.
224 Rescarches, ii. p. 97.
225 op. cit., ii. p. 343.
226 Op. cit.
227 Prichard, ii. p. 129: - Beke, Jour. R. Geog, Sbe.
228 Op. cit., it. p. 132:-Harris, Highlands of Ethiopia, 1u43:-Fresnel, Mérn. вur le Waday, Jift: - Beke, Essay on the Sources of the Nile. 1848 :- Origin of the Gallns, 1848:-Obscrvations 日ur la communication supposée entre le Niger et le Nil, 18j0:- Jomard, Sur la pente du Nil Supérieur, 1848.
229 Beke; and Newman; Trans. Philological Soc., Itandun, 1943-5, i. and it.
230 Larrey, Noline sur la conformation phy. sique des Eyyptiens; Descrip. de l'E. gypte, ii.
231 Essai sur lea Hecurs des habitanta mo. dernes de 1 Edgypte-id., ii. part 2, p. 361.
242 Prisse, Oriental Album, Madden, London, 1814, pl. 29, 29:-l'ickering, Races, pl. xii. pp. 2:21-4.
233 Cherubini, Nubie, pp. 50, 51.
234 Gliddon, "F.xeursus on the Derbers," Otia, $117-46$,
235 "Et-l'ullàk b'eet tellàteh," or "triplo


237 'rublet of Thatnes II., 1852, p. 21.
235 Prichard, ii. p. 135.
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2402 ( th om, xii. 3.
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257 Herodotas, lib. ii. $\$ 105$.
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264 Wood-cut, fig. 123-Rosellini, M. C., pl. 133. Fig .3.

265 Wood-cut, tig. 125 - Hoskins, Ethiopia, plex.
26G Criliaud, Meroe:, ple. xvi-xx.
267 Wood-cut, fig. lig - Rosellimi, M. C., pl. 133.
268 Champollion-Figeac, Eryple Anc., p. 356.
269 Wood-cut, fig. 1:8-Rosellui, M. C., pl. 97.
270 Whod-culs. figs. 129, 130, 131, 132-ibid., M. C., 12 ${ }^{\text {an }}$.

271 Woad-cut, liy 133 -ibid., M. C., pl. 3\%
${ }_{2 \pi}^{2} 2$ Wood calt, tig. 131-ibid., vol. i. pl. 4 .
273 Wood-cut, tig. 135-ibid., M, C., pl. Bt.
274 Wood-cut, fig. 1312 -ibid., M. C., pl. 41.
275 Woud-cui, hy. $13 i$-ibid., M. C., pl. 29.
276 Wood cmis, tiss. 13s, 139 -ibid., M. C., pl. 132.
277 Morton, p. 37 : - Trans. R. Soc, Lit., 1794, j1.16, fig. 4:-Gliddon, Che., p. 23.

## Nin．（of Notes，（re）

is Hosellini．M．S．，parte lma，ii．1833．pp． 4त；－521 ；Portrams，M．R．，pl．i，－vii．
09 Vide infra，p．hi＊，＂Chrunology．＂
2～0 These drutrings were our＂stamps＂；li－ thogrnphed．intra，ples．1．－iv．
281 Humbodat，Costans，French ed．］846，i－pp． 430，529：on which see Dr．Patterson＇s commentary，supra，＂Memoir．＂The heretical author of Yestiges of Creation （dirst Amer．cd．Niow York，Jils，pp． ady－2td，dowerer indecurate in other theories - and the very orthorlox Guyot （Elarth and Man，Boston，1451，p． 253 ， seq．），however exact in olher data－ owing les similar philanthropie senti－ Tientialities，alsu brask down when they diswes the Natural listory of mankind．
288 Vanateb．in Quatremere，Recherches our Ia langue C＇ope．
283 Maneitu，npud syucell．Chron．，f． $40:-$ Lepsing，${ }^{\text {² }}$ Ieptre i M．le Prof．Hippo． lrte Rost＇linui．＇Ansali delt＇Insifuto di CorrisponilenzaArcheologica，Ruma，ix－ 143\％．p．1\％．
284 Kenrick．A ncient Fowpt under Pharaohs， London，1－ill，i．p．90．
2s．Op．cit．pr，10：－8．
2－t Oft cit．p． 131.
24；Wood－cut，fig 15：－Rosellini，MI R． 355 ；
 ＇leatimony，fp．s：t－1．

2ng Rasillmi，M1，R．，10h，and：$:$ is
at！Wıkinsun．Man．nud Cus．．．i．p．as ；iii， pp．14！，316：－［lenry，Firypte ］larao－
 Letrante，Rev．Archédl，i and Je Sath－ cy，Note，Rev．Archíul，list，p．4：30．
991 Testimony：pp．2：
242 Wuod－cut，fig．136－Rosell．M．R．，pl． 96.
gin Wood－cut，lis．13－ibid．，M．C．，pl．13．
：2d Wood－cot，fis．bis－itad．
295 Wood cuta，lira，15\％，160－Morton＇s MSS． for ed ed of（cr Aityp．
whig Wood－cut，lig libl－1thd．
247 Ampire，Revue des Deux Mondes，Aug． 1816，p．3y．
sen Galiddon，fand lwook，pp．so－2．

300 Crania Aecjptiact，pr．26， 27.
301 I was present in Dr．Al＇s office when he opened it ；and su vivid is iny remem－ brance of the conversation its joint pe－ ruand superinduced，that，althoumh I had never suen the letier from dett to this Sept．1ㄹj3，I sourelat for and found it omang miy dece：i－1 d friend＇s pupers． G．R．G．
302 Pickering．Itaes of Ment lets，p． 10.

264 Cosmon ii．f．if．French ed．
305 Jerem siai． $3: 3:$－horion＇s notes for 2d ed．

306 Instintionex ad Fimatanenta ILugus Ara－ bica，lipnise， $1 \leqslant 1 \psi$ pp， $3 *-!$ ．
307 Dubais，Vusaruathour du Caucase，\＆c； cited herematier．
308 Wond－eur，fig． 166 －Rosellini，M．R．，

309 Woodrut，fig．Jit－Nubic，p． $8:-$ Ros．．
 Oeburn．＇Testimany，pr 32：－Champol－ lion， $\mathrm{M}_{\text {onuments，fil xvi．}}$
\＄to Wood－culs．Jigs．lus－1＂0－Roseltini，M． R．，pl．lixxy．

Fo．（nf Nact，di）
311 Birch，Gsilety，Pp．68， $86,104:-G l$ ddon， Otia，p． 119.
312 Moddu＇t＂Oriental Altum，pl． $25 ; "$＂ bian Fetmales，Kenoosce Trabe， $\mathbf{l}^{2}$ hiles．＂
313 Wood－cut，fig．171－Roscllini，．II．R． 156,$160 ; .11 .3 .1 v .10 p .231,20$.
 M．$\therefore$. ini． jart i．p． $40 \%$ ．
315 Wuod－cut，fig．173－W＇ilkinson，Man．and Cusl．，p．iût．No．73．
316 Dia，ff，147－2
317 Notr．Jibl．and Ihys．Jist．，pp．13E－146： －Xiddon，Otia，p．1．1\％．James Cam． 1．Mo，was the firs who satied along Atrica to a linde beyond the raver Congo． Hottentot 1 riles ware aliogther an． kurown until afier the royage of Bar－ tholomes Diaz in A．n． $18 \mathrm{~S}_{6}$（Church－ ild＇s Collection of Foyagesi．
319 Amhon，Class．Dict．vucc＂liama．＂We have re－exnmined liecren（Eicflecions on the Ancient Nitions of Africa，i．， chaps，ii，v．，vi．－prarticularls jup．2lf－ 24li，and can find noiling but hypothesce to support Corthnothinth pussession of Mrgroslaves．＇The gecount of Manoo＇s voyage，dc．，is given（ッन．cit．pp．492－ 501）．
319 L＇Arménie，la Perme，et Ia Mesopotamie， Paria，folio，18－in，pl．113：－compate pl．126．
320 Buha et Flandin．Mon．de Ninive，folio， 1：ti－50，pl．है
321 Virgile，Nurctum，＂The Salad，＇Nifard＇s ed．，Paris，1：53，p． 4 （i3．
322 Wood－culs，fige．1\％ 178 －Rosclini， 3. R．，xliv．his，quater．
343 Ablh．iii．BI． 1 ©0．
3：4 Archiculoria，xxxiv．pp． $1 \times 2$.
325 Compare fildddon＇s asserijuns uf the eame fatt in 1s43，Chapters，jer th，5t；in 1819，Otia，pp．＊s－si；and Hand－book， －p． 35.
326 Hist．Thblet of Ramses 1I．，London，1552， pp． $18 \%$
327 Hincks，Ifierogtyphiral Aphobet，p．16； pl．i．Figs 23， $26 \mathbf{w}_{+} 27$ ：－Gliddon，Ois， p．133．
328 Wood－cut，fig． 181 －Mon．Civ＋，pl．xxii．
329 Travels，plate，pari i．line 3.
330 Man．and Cust．， i ，ph．iv．line 3.
331 Egypte Ancionne，yl，55．
332 Whod cut，Eig．bHiz－Losellini，Hoskins， Wilkiuson，and Cliampollion－F＇jgeac， supra No， 331.
333 Races，1814， 1.224 －compare＂Abyesi－ nian，＂in jlate xii．
334 Gallery，pp．94，97； $\boldsymbol{\rho}$ ． 3 e
335 Topnog，of linebes，1e3．7，1fo．135，seq．；－ Mant and Cust．，i．Jp．5s，40t；1ii． 179 ： －Champollion，Alohanches，pl． 15 ．
336 Glideten．Otin，p． 148.
337 Gliditon＇s 11 S ，Diary，＂Thishes．F＇ebsiars， IS $10^{\prime \prime}$ t－WValk．Materia Hieroglyphica， ＂Amuntuonch＂：－「asoltinn．Appen－ dice，Oval No．13：－Icemans，Letre à Salvolini，p．75．Complare liweli，Tr－ blet of Ramees II，＇l＇omb of Hui， p． 24.
333 Wood－cuts，figa．1\＆3，1s4－Dinkmāler， ＂Nemes Reich，＂Dvn．XVIJl．，Aもth，aii． BI．117．－N．B．The cboldren some－ times are red－see Ilee same paternity exemplified in Hoskins，Ethiop．，＂Grand Procession，＂Jowest line．

No. (of Natet, are.)
339 As amone the "wrestlers" at Denihassan (Cailleaud, Arts et Métiers, pl. 39) : -tlie "wine-pressers' at 'Thebes sibid. pl. 31)-and other scenes. 26,i.
$3 \$ 1$ Chev. Lepsiug's privato Ietters to Morton and to Gliddon.-Vide Chapters, 15th ed., Peterson, Phita., 1850, p. 6 S .
3.12 Crania $\neq$ gyptiact, p. 41.

343 Wood-cut, fig. 1F7-Hoskins, pl. x-
344 Woad-cut, fig. 1 N४-ibid.
45 Hanbury and Waddington. Travels in Ethiopia, pl. xiv, - compare Cnilleand, Voyage ì Meroë; and Haskins, pl. xxix.

346 Syncell. Chronograph., p. 120, ed. Venet.
347 Crania Egyptiact. pp. 19-50:-Rosellini, M. S., ii. थp. 174, 234.

318 Wood-cut, frir $^{2}$ 193, Crania Eaymiaca, pl. xii. fig, 7 ; and p. 18:-Camatogue, 1819, No. 833.
319 Letronne, Matrítiaux mour ervir à l'histoire du Christianisme en Cigyple.
350 Crania . Er yp. p. $14:$ Сhamp. Mons., I., pl. 1; Rosellini, pl. xxv (cye wanting) -Cherubini, Nubie, pl. 10. p. 33.
351 Gliddon's Otia, p. 144.
35: Lepaius, Denkmailer, Part II., pl. 136; i, lines 1 and 2.
333 Mémoire sur quolques Phénomènes Célesteg; Revue Archeol., 1853, p. 674, note 34.
3.4 Arundale, Donomi and Birch's Gallery of Antiquities, selected from Drit. Mus. before ciled.
355 Champ. Mons. I., pl. Ixxi, Ixxii ; Rosellini, M. R., Ixxy.

356 Crania Figyptinea, pp. 61-2: corrected by "standing," for " scated," in MSS. for 2 d ed.
357 "Parable"- It is well known that the carlicr colonists of Barbadoes, Montserrat, and some other W. Indian istands, were Jrigh exiles. Odd to zelate, while a few of their Negro slaves actually speak Gaelic, many bave acquired the "brogae!"' An Hibernian, fresh from the green isle, arrived one day at the port of Bridgetown, and was hailed by twa Negro boatmen who offered to take him asthore. Observing that their names were "Pat" and "Murphy," and that their brogue was uncommonly rich, the stranger traking them to be Irishment asked--' and how long have ye been from the ould counthree ?" itisunderstanding him, one of the dar. kies replied. "sex monihs, $y$ 're homor." "Sex months! . . . . only sex monthe, and turned as biack as me hat!! J-!!! what a climate! Row me back to the ship. I'rn from Cork last -and I'll soon be from bere!'

Every one laugltg at the verdant ignorance which believed that a Celt enuld be tranomuted by climate into a Negro in 6 months. All would smilo at the notion of such a prossibility within 6. or even 60 years. Most readers will hegitale over 600 years. A natomy, history, and the monuments prove that 6000 years have never metamorphosed one type of man into another.

No. (of Notes, (ri)
358 Serond Visit to the United States, Pa:t 11., p. 148.

359 Tableaux of New Orleans, iNj2, p. s-17:-also. Dickeson and 13rown, Cypress Timber of the 3 ississippi, 1848. p. 3.
360 Scottish Archarologisis. Dr. Wilson teils me, have found similar indicationss of early humais existence in the Shothand Isles; and he considers this criterio. very valunde.- $\mathbf{1}$. IZ, $\mathbf{G}$.
361 Morton, Crania Americama, p. a60.
362 "Information reapecting the tistury. Consdition and Prosprects of the Indat: Tribes of the United States," vol. I.
363 As Morton happily wrote-"The worsis of ginnts and the stature of pigmies" MSS, for ad ed. Cr. 尼ayp.
361 The Serpent Symbol, \&c., in Amerie:, 3N51, pp. 26-
365 Westminster Review-"The Greek of Homer a Living Langugge." So true is this, that one word wall illusurate the fact: e. EL, woo is now the name for water in ordmary Grecian parlance, just as it was in Homeric days, to the ex. clusion of edeop which belongs to the classica! ages mtervening. - C. R. (i.
366 Christian Examiner, Boston, July, 1800 , p. 31.

367 Trans. Am. Ethnol. Soc., II.
368 Bunsen. Life and Letterg of D.S. Niebuhr, New York ed., $1 \times 5 \mathrm{~s}$.
369 Connection between Science and Reveaterd Religion.
370 Ancient Monuments of the Mississip; Falley, $1 \leqslant 18$, p. 304.
371 Wilson, Archaeglugy of Scotiand.
372 Op. cit., p. 16\%.
373 Laynrd's Babyion nbundanaly establistav: this fact ; but vide indra, p. 427, figs. 263, 264.
3 3i4 Morton, Cr. Eayp. pp. 5, z, !, i.
375 Wood-cut, fig. $200-$ Wartin, Man aml Monkeys, p. 298, "Bushminn."
376 Wood-culs, fige, $201,20:$ Wilsoni; Archaology - vide infra, pp. 369-50.
3Tf Hamilton Simith, Natural Elestory of the Haman Species, Edinb. ed., lsis, p. 9?.
37s Trans. Am. Ethnol. Soc., New York, i. p. 192.

379 Rev Dr. John Bachman. of Charleston, S. C., in a book on the Unity of thi Races, did raiso a question as to thr American origin of maize, but Hums. boldt, Parmentier, Linnatis, and the best botanista are ngainst lim.
380 Galtatin, Noles, op, cil. p. $\mathrm{in}^{7}$
3*1 Chronologie der Faypter, i. jip. 131-3.
3 3:2 Pauthier, Chine, p. 180.
343 Gallatin, p. 58.
3 3it Vetruviug, lib. vi., cap. 1.
385 Kaimes, Sketches of the II: :-ry or $\mathrm{M}_{n}$.

39G Layurd, 2 d Exped. Babylon, j10 531-2.
$3 \times 7$ Morton was here somewhat misled by a hastily written passage in my Oiia. (13urke's Ethnol. Journal. p. 310.)G. R. G .

389 This is by far too high a date for "castes" - see further om, pp. G35-6.

359 Also, and mure probnbly. Petmbnsics but the hieromphics revcal wothing for or ogainst euther suppostion.-G. R. G. 390 They cane from tho old Jewish burial.

## No. (of Noles, ate)

ground, behind Muss'r.el-Ateeka, on the desert toward Bussateen: and no Mustim is interred rear a Jew.-G.R.G.
391 Travels in Kotdotan, London, 1644.
392 Proceed, Acad. Nat. Sciences. Philada., seplember, 1850, p. 82.
393 Candat, j. p. 104.
39. Want of epace alone prevents the apposite cilation of the corroborative statements of M. Hombron, " De l'Homme dana ses rapports avec la Créntion;'" Voynge au Pole Sud; Zoologie, j. pp. 80-92, 110-7.
395 This is what the Halicarnassian states "I atn surprized for my narralive lias from the commencement sought for digressiong), that in the whole territory of Eits no mules are able to brecd, though neilher is the climate cold, nor is there any other visible cause, The Eleans themselves bay, that mules do nol breed with them in consequence of a curse; therefore, when the marea' breeding approaches, they lead them to the neighboring districte, ond there put the he-asses wib them until they are in toal ; then they drive them home again." (Helpamene, iv. 30- "A new and literal Version, from the Text of Bachr'"-by Henry Cary, M. A., Oxtord - London, 1849, p. 247.)
396 Columelle, p. 135.
397 IJam. Smich - Nat. Hist, of the Equide, p. 154.

393 Lcidy; in Proceed. Acad. Nat. Sciences, ['bila, Sept, 184\%.
393 Equida, p. 183.
400 llid., $\rho .120$.
401 Morton's posthumous papers.
40: Ibid. - Replies to the Rev. J. Dachman. \&.c., 1850-51.
403 Buffort, Quadrupides, xxii, p. 400 ; xxx. p. 230.

40: Chevrcul, in Journal des Savana, Juin, lus 6 ; p. 357. It was my good fortune to have marked, for Dr. Morton, that passoge in Chevreul's okilful paper which Dr.Bachman so queerly abcribed to "old and musty" nuthorities.-G. R. G.
405 Karl Ritrer's Geography of Asin; viii. Jivision lat.-pp. 65ñ, 659. Compara Frazer, Mesopotamia nod Assyria, pp. 366-i ; for "T'urkoman CameJ,"
40 Canidas, p. 19.
407 Sonmini's Bulfon, Quad. xxxiti. p. 321, supp.
408 Pentinnts Arcic Zonology, i. p. 42.
409 Fanna Boreale-Ameticana, Mamm., p. 61.
410 First Vosage, Supp. p. 186.
411 Famna, p. 65.
412 Idems, $\mathrm{p} p, 74,79$.
413 American Edition, p. 365.
414 Nartin, Nat. Hisl. of the Dog, p. 30.
415: Mnmion Smith, Canidæ, ii. p. 123.
416 Nat, IIst. of Paraguay, p. 151.
417 Iural 太poris, p. 16.
418 Lyell. I'rinciples, ch. 38.
419 Wood-cut, fig. 235-Champollion, Grammaire. pp. 51, 173; Dicionmaisc, pp. 117, 127:-Bunsen, Eqyp1's Place, i. P. 514, figs 248, 249:-Wikinson M. and C.. iii. p. $32:-$ Lepsius, Denkmäler, IVth, Vth, and VIth, dynasty, passinn.
120 Wood-cut, fig. 23i-Denlsmäler, Abth. ii. Bl. 9.

No. (of Notes, de.)
421 Wood-cut, fig. 235-Denkmäler, Abih, it BI. 96.
422 Wood-cut, fig. 239-Denkmäler, Abth. ii. BI. 11:-See varieties in Cailletud, Ariset Métiers des Ane, E.g., pl. 37.
423 Woad-cut, fig. 240-Denkmäler, Abib. ii Bl. 20.
424 Wood-cut, fig. 241 - Rosellimi, M. C. xvii., fig. 3.

425 Wood-cut, fig. 242-Martin, Net. Hist, of the Dog, p. 138.
426 Oriental Album, pl, 41.
427 Marlin, op. cit., p. 53.
428 Wood-cut, fig. $243-$ Ibid., p. 50 ;-Denk. mäler, Abth. ii. Bl. 132.
439 Wood-cut, fig. 244-Denkmäler, Abth. ü. BI. 131.
430 Wood-cut, fig. 245 - Rosellini, M. C., No. .1.
431 Wood-cut, fg. 246-Wilkinson, .M. and C. iii. p. 13.

432 Wood-cut, fig. 247-Ibid., op. cit., p. 32
433 Hoskins, Ethopia, Plare i., line 3.
434 Bennelt, Tower Menagerie, p. 63.
435 Wood-cut. fig. 248 - Wilkinson. M. and C. iii. p. 12:-Lepsias, Denkmäler, ii. 131.

436 Wood-cut, fig. 249-Denkmäler, ii. 134.
437 The head resembles the akulis of Egyprian mummied-doge now in the Academy, Philndelphia.
438 Wood-cut, fig. 250-Denkmäler, ii. 9G.
439 , and 440 Wood-cut, fig. 251 - Laysid, Babylon, p. $526: \longrightarrow$ Vaux, Nineveh, p. 198 ; discovered by Rawhinson. "Clesias (says Photius in his Excerpta), in his description of Indin, speaks of the gigantic doge of inat country.' ${ }^{\text {- }}$-Indica, cap. 5 ; apud Heeren, Hist. Res.; London, 1846 ; i. p. 35.
141 Morton, Additional Observations on Ky . bridity, Oct., 1850, p. 26.
442 Lepsius, Denkmäler, Abih. ii. Bl. 131, and Passalacqua, Catalogue, 1826, pp. 231-3.
443 Zoologie, ii. p. 79:-Another, not less curious, arrived too late for us to use in our sundies; yiz: Courtet da l'lsle, "Tableau Ellinographique dut Genre Homain," Peris, 1849. We ehall revert 10 it elsewhere.
444 October, 1849:- Amer. Jour. of Med. Sciences, Jan., 1850.
445 Thoughts on the Original Unity of the Huminn Races. New York, 1 S3jo.
456 Zoologie, ii. p. 109.
457 Op. cit. p. 107.
448 Jyei. Principles, chay. xxxyii.
4.49 South. Quar. Rev. Charleston, S. C. Jan., 18.46.
450 Second Visit to the United Sitates, i. p. 105.
451 Hist. of Niapoleon Buonaparte.
452 Notes to Azara's Quadrupeds, i. p. 24.
453 Amer, ed., No. ccciv, July, 1853 . p. 55.
451 Gerresig v. 4.
455 Ébiales sur l’Algérie, B. 148.
456 Calen's lebrew Text, j. p. 8: Genesis ii. 20.

457 Irayard, Bahylon, p. 623.
458 Paulhier. Chine, p. $24:$-Livtes Sacrée de l'Orient, " l'einps antericures au Chou-king." p. 33.
459 De la Domestication du NIams et de th Vigogne ; "Projêl d'une Ménagerie Nationale d'Acclimatation," 1848.

## Fo．（of Nout，de．）

460 The Rlack Man，＂Camparative A natomy and Peychology of the Airicar Negro＂ －transl．Friedlander and Tomes，New York，1853，pp．11－12．
461 Crania Egyptiacs，1844．p．I．
462 Observations on a Second Series of Aucient Egyptian Crania；Proceed． Acad．Nat．Sc．，Phila．，Oct．184，pp． \＆ 10 ．
463 Catalogue of Skulls，3d ed．，1849：to which ought to be added those crania presented to him in 1851 by Mr．Glid－ don；and，in 1851－2，the two shipments received from Mr．A．C．Harris of Alexandria，Egypt．
464 Cr．Ægүp．，p． 3.
465 Gliddon＇s Otia，pp．74－5， 80.
466 Egyptens Stelle in der Weltgeschichte， ilt pp．166－70．
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468 Observations，\＆ic．Proceed．Aced．Nat． Scinaces，Phila．，Oct． 184 ：－Lepsius， Briefe，p． 33.
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474 Cr ．Ægyp．，pl．ii．fig． 1.
$4-5 \mathrm{Cr}$ ．屋gye．，pl，ii．fig． 2.
476 Cr. Figyp．，pl．ii．fig． 3.
${ }^{477} \mathrm{Cr}$ ． Egyp．，pl．x．fig．$^{2}$.
478 Cr ，Ægyp．，pl．viii．hig． 1.
$4{ }^{2} 9 \mathrm{Cr}$ ．Ægyp．，pl．xi．fig． 1
$4 \times 0$ Cr．居gyp，pl．x．fig． 1.
491 Cr ，Ægyp．，pl．x．fig． 4.
482 Cr．AEgyp．，pl．x．fig．5．Note to Wood－ cuts，figs，263， 264 ；＂A ncient Assyri－ an＂（supra，pp．426－7）．After my re－ marks were stereotyped，I had the plearure to receive onather letter from Mr．J．B．Davia（dnted，Shelton，Nov． 15，1853），which aflords the following， among other particulars，corroborative of the suthenticity of this cranium：－ ＊＊＂The skull is the veritable skull of an ancient Asbyrian．It was found with the fragments of others，and a great many other bones and armor， in a chamber of the North－west palace at Nimpoud，to which there was an en－ trance but no exit．This is marked in Mr．Layard＇s Nineveh，Vol．I．，p．6．2； Plan III．，Chamber I．It was aupposed to be the one to which the defeuders of the palace had retreated．
The skull is undoubtedly allied to Mor． ton＇s Pelasgic group，but，yet，Y think possesses a distinct chafacter which at once strikes my eye，as belonging to the people of the eculptures．Tho full， rounded，equable form like the ancient Greek，only decidedly larger and fullet， is striking．＂－J．C．N．
483 Egypto Ancienme，pl．2．p． 261.
484 Gidddon，Appeal to the Antiquaries of Europe on the destruction of the Monu－ ments of Egypt，1841；pp．125－129．

No．（of Nater，de．）
485 Proceed．Acad．Nat．Sciences，Philadel． Dec．24，1850．Onthe＂leathern strapa，＂ cf．Birch in Gliddon＇s Otia，p， 85 ；and Osburn＇s paper on the Leed＇s Mummy， 1828，pp．4，33－4，pl．ii．
486 Pronuenade en Anérique，Revue des Deux Mondes，Juin， 1853 ．
487 Martin，Man and Monks．，p．298，fig． 232.
488 Op．cit．，p． 298.
489 Prichard，Phye．Hist．i．p． 297.
490 Ibid．，op．cit．p． 290 ．＂Fulah＇s means ＂white：＂Cf．Beecham，Ashantec，or the Gotd Coast ；p．161，note．
491 Ibid．，op．cit．；and Latham，Varictics of Man，p． 6.
492 Morton，Cr．Ag．，pl．xii．fig．
493 Virey，Histoire Naturelle dis Genre Ht－ main．i，p．240；pl． $2:$ drawn in colors， on a folio scale，by Geotfroy and Cuvier， Mammiferès，182v：i．pl． 1 and 2；and described in pp．1－7．
494 Morton，Cr．Eg．，p． 16.
495 Prichard，Researches，v．p．3．Thus amply conlirmed by Crawfurd－＂There are 15 varieties of Oriental Negrese ＊＊＊There is no evidence，therc－ fore，to justify the conclusion that the Oriental Nogro，wherever found，is of one and the same race．＂（Edin．New Philos．Jour．，1853．p． $78 .{ }^{-1}$ Negroes of the Ind．Archip．＂）
496 Churchill＇s Collection of Voyages．i．； ＂History of Navigation，supposed to have been written by the celebrated Locke．＂This information may be relied on，as it was furnished me by Dr． Charles Pickering．$-G$ ．R．G．
497 Anihropologie，p． 348.
498 Op．cit．；from＂Voyage de l＇Uranie．＂
499 Morton，Catalogue， 1819, No． 1327.
500 Prichard，Researches，i．p．298，fig． 7.
501 Dumoutier，Atlas，pl．35，fig． 6.
302 Ibid．，pl．37，fig． 2.
503 Martin，Man end Monkeys，p．310，fig． 227.

504 Dumoutier．Atles，pl．36，fig．4－＂Van Diemen．＂
505 Prichard，Researches，i．p．297，fig． 6.
506 Dumoutier，Atlas，pl．36，fig．2－＂Van Diemen．＂
507 Op．cit．，pi． 34.
508 Martin，Man and Monkeys，p．312，fig 229．There is nothing herein ataled about，the alnost inconceivable animal． ity of Papuans，Ahetas（Ajetas）or Negritos，Artuans，Al Focra，which the render cannot find in a new wark－ ＂Ethnographica！Library Conducted by Edwin Norris，Esq．，Vol．I．The Native Races of the lndian Archipelago， by George Windsor Earl，＂Londor． 1853.

509 Observations faites pendant le 2me voy－ age do Cook，p． 20 ．
510 Merenhout，－－，ii．p． 248 ；cited by D＇Eichuhal，＂Races Océanienves et Américaines，＂ 1845.
311 Polynesian Regearches，ii．p． 13.
512 Dumoutier，pl． 26 ，fig．6－＂Caverncs sepulchrales－＇l＇eneriffe．＇．
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514 Ibid．，pl．30，fig．4－＂Caverne ossuare－ Taiti．＂
515 Ibid．，pl．31，fig．4—＂Sepultures aban－ données－Ísle Vavao．＇

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Sif Martin, Man and Monkeys, p. 310.
51 2 Domonticr, pl. 32, fig. 2-'I Isle Mawi."
fil P Philatelphia, 2d ed., 1444 ; pp. 4, 5.
519 Mr. Strain's letier to Dr. Morton, "Rio Jancirn. 7th Iecem., 184' ${ }^{\prime \prime}$ - Proceed. Acnd. Nat. Serences., Phila., Dec., 1844.
520 Purnam's Anacrican edition, New York, 1*53. p. 36.
521 Eithnouraphy and A rchoology; American Jourin of Science and Art, ii, 2d serics; Now Haven, 1si6; tirage à part, pp, (in. 11-9
52: Crania Americana, p. 145.
523 Rivero and Tschudi tpp. 30-40) doubt the prosesssion by Dr. Worton of crania of the royal laca family: but the note of the translator (p. 41) may be passed over as inconscquent.
5is The Creole Negro; supra, No. 491.
525 Cr A Americana, p. 130 ; pl. xi. C.
52b Op. cit., p. 131; xi.D.
6? Feruvian Antiquities, pp. 39-40.
Six ('r. Americana, p. 15: ; pl. xvi.
$52,5 O_{\text {p. cit., p. } 155 \text {; pl. xvili. }}$
sho Op. cit., p. Wif; pl. xxit.
631 Opr cit., p. 192; pl xxix.

Sil3 Op. cit., p. ©R ; pl. Is.

STS Op, cil., p. $55 \%$
sioli Anthropologic, pp. $920-30,232$.
63 Martin, Mat and Monlicys, p. $2: 3$.
str Inid. p. 273.
Sat Chime, d'npris lewdoruments Chinois, p.l.
510 Wad-cut, lig. 3? -Paravey, Documins, \&c., sur le Deluge de Nós, l'aris, J.ase, the 11, $56:-$ P'anler $^{2}$ ('hou-king. I'art Ji.. ihap. i. p. fis: Part I5., rhap, xxvii., г. 131:-1bid. (hime, par 5.i-t.
5. 11 P'nuthier, Chine, pl. 22; ris. 1:0-1.
fil: luid., pl. 31. hig. 4; pe 2lli-s.
stil lbid., pl. 12: pip. 5\%-s.
644 bid. pp. 1\%9-4.
:ifj Rivolutions des Feuples de l'Asie Moychme, Paris. 1439 ; ii. p. 42\%.
stor Cotalogue, id cd., $3 \times 49$; Intro., pre l-2.
Sf7 Nat. Hist. of Human Species; Edinb., 1F14. p. läy.
513 Bremer, Homes of the New World, Am. t'd., 1853, ii. pp.162-3. [Note, 24 Jan., $14 i=$. Let me confirm my colleague's necurncy by two additional extracts 1st. as regards crosses between American Indians and white men. All readers are nuare with what gusto a superior civilization has been attributed to the Mandans; and how sundry instances ol fair complexion, light hair and blue eyces among individuals of that tribe. have also led to eurmises that they might exen he of Welsh descent! Major John Le Conte poinind out to me a solution in the fact that Lewis nnd Clark wimtered among lhem wilh a party of 43 able-bodied men. As a specimen, rend the following aceomt of onr orgie. on Saturday might. Jan. 5, 1,05-い[thus nostrum sodalium multumatacrior et potention juventute, hat nocte honorem qualior maritorum custohivit." (Jewis and Clark. Travelo to the soutce of the Missouri river;
 109-11i.)-2d. As respects crosses be-

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tween Negroes, Indians, and while persons, on the Parama Isthmus; a passage which was indicated in me by Mr. Conrad :-
'; The chatacter of the half-costes is. if possible, worge than that of the Negrees. These people have all the vices and nane of the virtucs of their parents. They are weak in body. and are more liable 10 disenee than either the whites or other races. It seems that as long as pure blood is added to the half-castes proper, when they intermarry only with their own colout, they have many children, but these do not live to grow up; while in families of unmixed blood the oftispring are Tewer, hut of longer lives. As the physical circutnslances under which both are placed are the same, there must renlly be a specific distinction between the races, and their intermisture be consideted as an infringement of the lnw of Nature."-Berthuld Seemann, F.L.S. - Narmive of the Voyage of H. M. S. Herald, JR45-51: London, 1552, 1., p. 302 - G. R. G.]
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550 Ibich. - fig. 181.
5.51 Jhid. - lig. 1k?

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s.m lbid. pres.
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s.ix Martin, op. cit., p. 36̈.
5.j9 Yirey, Hist. Nat., ii. p. 42.
sfio Marin. op. eit., p. 254 .
 trated Jondon News, 1831 - "drawn by ant English officer a! the Cape."
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504 Races of Men, p. 12.
565 American Jour. of Science and Art, Vol. xxxviii., No. 2.

566 Anotomie comparíe, tome ii.

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P. S. Ist Feb., 1854, T'o-day's mail has brought me the first number (Jan. 1,) of a "New Series" of the Ethmological Journal. edired by Luke Rurke. Err. (John Chapruan, publisher, London). I have only spsce to express my henrty satisfaction at the re-appearance of this much-needed vehicle for free and manly thought; and to state that my colleagues, Dr. J. C. Nott, Dr. Henry S. Foltersor, and the Hon. E. Geo. Squier, while vouching with myself for the great crudition. clear intellect, and high moral worth of its editor, have no besitation in recommending it as on exponent of, as well as an admirable medium for, the most advanced visws in Exhoology. -G. R. G.

## APPENDIX II．

## ALPHABETICAL LIST OF SUBSCRIBERS TO TYPES OF HANEIND．

E．S．Adrich，M．D．，San Frardeog，Cale．
Prot．Louls Agaseis，Cembelige，Mass．
Jolng O．Alitin，Emq．，Hoble，Ala．
i．II．Alesander，Emp，Beltlmore，31d．
Thoman S．Alexander，Faq．，＂
Cbifton Allan，Ese．，Lexington，Ky，
Mrs．S．G．Allan，Ricbmond，「a．
Hon．Pbilip Allen，Providence，R．I．
Pisilip Allen，Jr．，Enq．，＂
S．Aus犃 Allibone，Eag．，Fhlladelphja，Po．
Col．J．B．Allixon，Lexlogton，Ky．
S．Ames，Y．D．，Monlsomery，Als．
Thomes C．Amory，Ir．，Enq．，Borion，Mams．
C．G．Auderion，Esq．，New Orleatis，La
L．II．Antleron，M．D．，Moblle，Ala．
S．IT．Ablerton，M．D．，gumbervilie，Als Alfred A．Andrown，Keq．，Boelan，Mess． C．G．Andrawh，Em，Few Orieane，Lд， Kleh＇d Angeli，M，D．，Lunterille，Als， Hon．II．I．Aathony，Providence，R．I． Nathan Appletox，Eng，Doston，Masa． Snmuel Appleton，Eaq．，＂（2 copice．） Rob＇t R．Armbisest，Esq．，Molile，Ale Capt Jos．J，Armstrong，
Hon．Somucl O．Arnold，Provdence，R．I． Richard D．Arnold，M．D．，Sarameh，Qs J．11．Ashbridge，Eeq．，New Gricans，La． Athenceum Litherg，Phlladelphio，Pa
Wanhington L Allee，M．D．＂
W，P，Aubres，Eac．，Molile，Ala．
C．Auだ，E＇si．，bimself and friondn，Mobile，Ala．（22）
Franklin Brelse，M．D．，Philadelphin， Fa
（G．Halley，Est 1 ，Charleston，G．C．
Biunro Banister，M．D．，Iichmond，Fa．
Gco．C．Barler，Esqq．，Pblidelphla， FL
Milton Berlow，Fiqq．，Lexington，Ky．
Edward Pardett，Esq．，Now Orleans，La
Ilenry Barnewall，Eag．，Mobile，Als Oodfres Daruiley，Emp．，New Orleans，Le．，（2 coples．） Dr．Datry，L．S．N．，Wasbington，D．C． Hon．J．K．Bartlett，Froridence，I．I． F．H．Marton，BI．D．，New Orleana，La． Judge Bates，San Franciken，Cala Fion．James $A$ ，Bagard，Whimington，Del． R．Dean，M．D．，New Orleans，La．
C．Theard，M．D．，
E．Dezourth，Esq．，Mobile，Ale．
Isage leell，Esof，
${ }^{15}$
N．B．Menndiet，MI．D．，New Orjeans，I．a．
IEury C．Derric，M．D．，Flitadelghis，Pa．
Thos．F．Letlon，M．D．，Germantown，I＇a．

J．O．Dlbby，Esq．，New Oriands，Le．
Clement C．Biddle，Enq．，Phumdelphla，Pe
Henry J．Iigelow，II．D．，Dotton，Mas．
Samuel Dirch，Esq，Britiah Masoum，Landon．
Jamea Birpey，Esq．，Molilo，Ala
Ged．S．Dlancbard，Eaq．，For Merc．Lhb，Boslan，Mana
Col．W．W．S．Dlise，U．S．A．，Mow Orleant，La
G．W．Blunt，Ebq．，Ner Yort．
Heary S．Dosrduan，Esq，l＇hlledelphes，PL
Gec．Doldin，Lerl，
＂
S．M．Dodd，Esq．Savamah，Ge．
James Bordley，M．D．，In iffmory Md．
JIenry I．Boxiltch，M．D，Boulon，Mase．
T．B．Botrman，Ekq．，Mansícld， 0.
M．Doullemet，Nookseller，Moblle，Ais．，（ 10 ooplan）
Thos．J．Boure，Eaq．Boston，Mess．
Durwell Boykfn，Esq．，Diobile，Ale．
E．M．Dogkit，M．D．，Camden，B．C．
J． $\begin{array}{r}\text {＇．Dognton，Esq．，Syrecure，N．Y．}\end{array}$
A．P．Bradbury，leq．，Bengor，Me．
Charles F．Irodford，E＊q，Roxbury，Man．
Dr．Brlerly，San Frarisen，Cale
M．Irithth，Jr，Eeq．，Mobtle，Ale
Geo．Brinley，Exq．，Hartford，Conn．
Ino．M．Broomel，Jt．，Escq．，Chester，Ph
A．Drother，Esq．，New Orlaanz，Ln
Geo．I．Bromn，Eeq．，Mobite，Ala．
N，H．Brown，Exq．If
Jno．Brown，Esq，＊
Poter A．Browne，Esq，Phliadelphla，Fa．
Jos．Bryar，Keq．，Eatanuah，Ga．
Oeorge S．Uryent，M．D．，A berdeon，MJ．
G．S．Bryanh，Nemberd，Ale．
Jas．Brummel，Esq．，Rlchmond， $\mathrm{Y}_{\mathrm{a}}$ ．
Sam．D．Euck，Booketler，Hopkinville，Ky，（ 10 cmp ．）
Thos．C．Huckley，Emp，N．Y．
W．Gawn Bullock，Eeq，Bayminah，Ge．
Capt．Oren Duras，Filmington，N．C．
M．Barion，Esq，Richmoud，Va．
T．M．Burwell，Equa，Lytulburg， $\mathrm{F}_{1}$ ．
Dr．Geo．Bush，New York．
Tr．A．Dutters，Eseq．Rlehmond，Fan
IF．L．Byri，M，D，Ravamab，Ga

D．J．Cain，M，D．Charleston，B．C．
James Campbeld，Fan．，Molite，Ala．
FAy in Canter，M．D．，Now Ofleana，La Geo．W．Carpentor，Exp．，Germaniorna，P2 Jetse Carter，M．D．，Mobile，Aln，
A．IL．Cume，M．D．，Xpir Orleans，La．
Jaut Chatutron．Esfi，Mobile，Ala，（ 15 coplean）
Clips．31．Cleves，Eing，Charlowlon，g．C．

Lanmloa Cheves，Jr．，Esp，Charlerton，S．C．
Julfan J．Chimoln，31．D．，$\quad$ ．
Samuel Cloppin，M．D．，Nem Orieana，Le
N．T．Chriatian，Esil．，Georgetown，Oi．
Rev．Dr．J．D．Choulen，Newport，H．I．
Jno．C．Clniborne，Eki．，Now Orlesina，La
A．Clapp，M．D．，New dlbany，Is
W．IL．Clapr，Yma．I＇hiladelphion $\mathrm{F}_{\mathrm{a}}$ ，（2 coples．）
Jes．M．Clark，Esi．，Providence，R．I，
MíJot I．Lewir Cinrk，St．Louis，Mo．，（2 coples．）
C．Cleateland，Fiaq．，Yaxoo City，Mies．
J．Breàeraridyo Clemens，M，D．，Enston，Pa
O．B．B．Clitberal，Em，Mobile．Ala．
Etephet Colweil，Esp．，l＇hiladelyhis，Fa
Col．M．I．Coben，Leltimore，Md．
Octafus Cobed，Eeq．，Savenuah，（la，
Itenry A．Coit，Fsq．，New York．
A．Comarock，Esq．，
A．Comstoct，M．D．Philadelphia， $\mathrm{I}_{\mathrm{L}}$
Timothy Conrad，Fem．
Misg Anda S．Cooltdge，Banton，Mase．
F．C．Cooper，Emq．Safnenah，Ga．
－Corbet，以間，Brit．Legation，Tanhingto D．D．C－
W．W．Corcoran，Eiaq．，Farbingtod，D．C．
Chas．B．Coxe．Esq，Fhiladelphla，Ps，
Joo．C．Cresson，Esp．＊
John Crickard，Enl．，New Orleana，La
Charlen P．Cur Un，Esq．，Ioslom， 3 asen，（ 2 coples）．
Thos．D．Curtis，Seqn，
Hermano Curtlun，Enq．，New Orienan，Lan
Theos．Cuyler，Ekq．，Philedelphio，Pa．
Mrs．A．P．Dana，Net York．
W，H．Dntitiddx Eq，Osinestille，Ala
Hon．Juinn M．Daniel，Eichmond，Ya－
W，C．Dautell，M．D．t Savanash，Gis
John Dartinghon，Ekq．，Moble，Ats．
Innae Darenfimi，Eaq．．Riekmond，I＇a
Cibss．Davis，Eaq．，Niem York．
Jos laroard Devin，F．R．A．，Shelton，England．
Jijor fem．Ikens，Er．S．A．，woblle，Ala．

W．C．Jrens，Eaq．
Garli．Dung，Himp，
G．I＇Itelaplalor，Beq．．Madison，Tia
A．13．Drloarh，M．D，Livingaton，Ala，
Juhn Ievereux，Fsq，Raleigh，N．C．
Jowiph Drexilin，Fiscl，Moble，Ala．
Her，lifary M．Dexier，Hoston，Mass．
T＇heif．Texter，Fisin Mobile，Ala．，（ $\ddagger$ copice）
Chus D．Dickey，Eni．，＂
Prof．S．Itary burking，Charleatom，S．C．
L．i＇unsinu lobson，Eing．，Phllatelphia，I＇a
Geo．W．Norr，Fand，Kew Jork．
Jna．A Miruitus Dort，Feq．，＂
fien．Dousinas，Esq，Oosben 1till，S．C．
Sam＇l H．Itribes，Esq，Philadelphia，Pa．
B．F．Duncan，faci，Jacknon，Als．
W．R．Duucan，Ewi．，Netr York．
Mons．Jamer Duntop．Pittbure，Pa．
E．Durand，Est，Philedelphla，Pa．
A．M．Einotman，Eaq．，New York．
Clusk，J．M．Enton，Eaq．，Daltimore，Md．
Geo．X．Faton，Efa？
Jno．H．Exky，EMin，Philadelphia，Pa Dr，Ere，San Frnuckoo，Cala．
Jno．A．Lilkinton，M．D．，Whiladelohle，Fa．
Allert T．Elliott，Beq．，Providenee，R．I．
万．N，EHLA，P，M．，L．trpicen，Sapo．
David F．Emery，Maq，Wert Nembury，Xass．

Mosed II．Emety，Esq，Phlladolphls，I＇s．
Robert D．England，M．D．，Moble，Ale．
T．C．Ergliab，Eqq．，Moble，Ala
Rtchard Kalerbrook，Enq．，New Orleans，Lan，？© opp．）
F．A．Eustls，Esq．，Milton，Cona．
Alexamder Erereth，Esq．，Hobile，Ala
C．C．Everett，Eq．，Drunswick，Me．
1Iod．E．Evereth，for Lib．Stale Der，Thapingion．
Itoo．Elward Everett，Dorton，Hass，
John Fagpo，Esy．，Pbiledelphla，Pe
Prof．J．E．Femm，Oeorgelown，Ey．
C．C．S．Fartar，Esq．Net Ocleapa，La
J．Farrell，M．D，
Dandal Yearing，Eaq．，New York．
E．D．Fenner，M．D．，New Orlean，$L$ ．
Chas．W．Firher，Eaq．，l＇bliedelphite，Im
Redrood Flaher，Exi．，
＂
Dr．Fonerden，for Mu．Hospital，Baltimor，He
E．G．Forkhey，Ekq．，New Orlation La
Cheo．Fort，M．D．，Milledgorlito，Gs
B．W．Fowlick，Kiqn，Bafannoh，GL．
5m．B．Fowick，Ekq，Ihonton，Mars．
Hillary Poaler，Fieq．．Slobile，Ala．
TI．Purker Foulke，Esq．，Phlledelphis，Pa
Prof．Jno．F．Fruer，
J．B．Futch，Eeq．，Niew Orjeans，La．
Charles Gabahl，M．D．，Savannah，Oa－
P．C．Gaillarl，M，D．，Cherlecton，B．C．
A．Oelpes，M．D．，Moble，Ala
E．B．Garlette，N．D．，Philedelphis，Pa，
Jamee Garlimer，Eeq，San Prindea，Cala
Johs L．Gardiner，Exy．，Boaton，Maps．
J．R．Gardiner，Feq．，New Orleant，Le
L．M．Gaylord，M．I．，Sodus，N． $\bar{X}$ ．
David Gelger，M．D．，Charieaton，\＆C．
I．W．Gillbes，M．D．，Colvable，S．C．
Nrs．M．A．E．Glbson，Rlchmodd，Va．
Jno．Gibson，Esq，Motite，Ala．
Devid Gilbert，M．D，Fbilulelpbla，Pa
IIon．Henry D．Gilpin，＂（2 coples）
Thoman Gilpin，Finq． 4
F．E．Gordon，Esq．，Yobile，Ala
Theo Gordon，Ena ${ }^{-}$＂
5．M．Ouilford，M，D．，Lebonon，PL
Wm．Graddy，Ear．，Georgetorn，Ga，
Calsin Graidy，Eisq，
Edmund A．Grattan，Req．，H．B．II．Conz．，Bosten．
Joo．Grately，Esic．，Cberleston，S．C．
Hon．John C．Gray，Hoston，Mas．
Charles Green，Een］，Savannah，Ga
A．J．Green，M．D．，Colnmbin，8．C．
J．Oreen，M．D．，Washington，D．C．
J．Oreen，Kiq．，for Nere．Lif．Co．，Bnlhnore，IId．
D．S．Greenough，Eiq．，Domon，Mass．
W．W．Greenough，Eqq．，＂
John Grigk，Emq，linladelphia，Pa，
Jameé Grifnon．Fiaq．，I．B．M．Conf，Porland，Me．
Edmund Grundy，Kan，Pbilodelphis，Pa
John Hets，Esin，Motile，Ala－
I．K．Jlaiklt，Ena．，Ner York，（5 ompien）
Jab．S．Halset，Exq．，Germantorn，F＇z
C．S．Itale，Esq．，Burithgton，N．J．
Rev．A．O．Itndegy，Richtmengh，Pa．
Joln Haidey，Enq．，Not Mork，（5 coplee．）
Iion．J．JI．Jrmunnel．Cliarkeston，E C
M．C．M．Itammond，Eisi．，
P．T．ITammond，Lancurier，S．G

C．P．Ifampion，Eid．，Columbla，S．C． W．Hamplon，Een，
W．Inmpton，Jr，Esqı，u
Geo．S．Inrdiny，Esic，Safanuah，Ga．
（ienetal Ios Itarlan，Philadulphio， $\mathbf{P a}$
S．N．Harria，M．D．，Savennah，Cla
Jas．B．Harrioon．Ein．，Georgetomn，Gra．
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Habberd Finslow, Eng, Bortert, Mint John Wilthank, M. $D_{\text {, }}$ Phledelphla, PL Fhlllp Wintrees Jr-1 Eeq., Now Orleatio, Le Jeme W. Winter, En, Few York. C. J. Fiotor, Reg. Germantown, Ph. James H. Wilherapcon, Eeq., Lancteter, S. C. Thomas B Folis, Eeq. Now Orleang, La Fim. B. Woin, Eng. Pbiledelphte, Pg A. Wolle, Eeq., Bethlehem, Ps 7. Fotpenth, Eqq, Phindelphla, Ps Mepers. Frood 4 Conner, Carlivie, PL A. T. Wood, Eng. Kaw Orleans, $\mathrm{La}_{1}$
(leorge B. Fiook, M. D., Philedelphin, PM.
Bev. W. D. Wood, D. D., Geneva, N. Y.
Mrs. Woodbuty, Ne: Yont.
15. A. Wright, Eug., Medroon, Fins.

Wm. Wrighl, M. D, Phliedelphla, Pe

Jecob Wyand, Feq, Phlladaphic, Pa
Wim. W. Wyatt, Eeq.,
Mercil Wyla, Mobley \& Btralt, Lamader, 1.0.
Samuel G. Wymen, Feq, Beltymore, M4.

Orgory Yals, Eay, Ban Frandron, Chle Jno. C. Yeagar, Fa, Pbledelphla, Pl Fhlip Yelos, H. D., Now Oriens, Le Hert M. Young, Ballumore, Md
J. A. Young Eeq, Cumdm, B C, John B. Young, En, Bichmond, FL.

## ADDITIONAL FAMEA


G. F. Bell, Eeq, Phlledelphta, Ps
A. Billingr, Eaq, Narhvila, Tonn. Bertah Brown, Eq, Medtora, wion Wm. EL Fon Burem, M, $\mathrm{D}_{\text {\% }}$ New Yort Bescy B. Oollina, Eng,
John Le Conte, Fen Frallminiphis, PL Jno. Le Conien, Jr, Entin $\quad 4$ T. J. Crowex, Boolinellari, Fow Yaric, ( 2 cogime) Oov. Neleon Deveg, Iancenter, Fill John Eyank Rey., Went Faveriond, Pl W. Wayne Fions, Res., Pmul, Ps. Fellx B. Gandoh, Fax., Philedelphta, $\mathrm{Pe}_{2}$ A. T. Orey, Eeq., Medion, HRe. Prof \& \& Baldeman, Oolnmble, Ph Charlen H. Hall, En, Phlladalphla, Pa E. E. Jenema, Eeq, Medifor, Wha Jno. MeFrida, M. D. Phllecolphis, PG B. Meyer, Real, Baltumora, Mid Joubus Moss, Kin, Birmingham, Fivgend, (t eoplas) J. Weat Norine, Res, Fhilmolphls, Fi

Jo. R. Puader, Eeq, Tarbura, N, C.
 D. T. Pratt, Peq, Fhriadeapha, Ps


[^0]:    * Mand-book to tho Nile; London, Madden, 1849; p. 18, note.

[^1]:    * A memoir of Smmuel George Morton, M. D., late Preaident of the Academy of Natoral Seiences of Philadelphis, hy Charles D. Meigs, M. D. Read Nov. Gth, 1851, and publiahed by direction of the Acsdemy: Philada 1851.

    A Diographical Memoir of Samuel George Morton, M. D., preparad by appointment of the College of Phyriciana of Philadelphia, and read hefore that bedy Noy. 3d, 1852, by George B. Wood, M. D., Presidient of the College: Philada. 1858.
    giketch of the Life and Character of Samuel George Morton, M. D. Lectore, iptroduo tory to a courge of Anstomy and Physiology in the Medical Department of Pemnsyivania College. Delivered Oet. 18th, 1851, by Wiliam R. Grant, M. D. Publisbed by requent of the Clasas: Philede 1852

[^2]:    * Among the lettera with which Dr. Morton favored me, on my visit to Europe, was one to Dr. Alesander Hannay of Gleagow. This he particularly wished me to deliver, and to bring him a report of his old friend; for Dr. H. had been an intimate of his stiudent days, althongh their correspondence had long been interrapted. The letter was written in a playful mool, and contained sportive allusions to their atudent life at Ediobargh, and a Firh that they might meat again. On reashing Glaggow late in May, I sought Dr. M., and found that he had recently deceased. Morton bimelf, as I afterwards learned, had then also ceased to breathe. That letter, so fall of geninl vivaeity and present life, wes from the hand of one dend man addressed to another! And should they not meet again! Father had they not already met where the derkness had become day! It is a beantifal and consolatory boliof, and one that the aubject of this botice conld andoubtingly hold and rejoive ln .

[^3]:    - Tentamen Inangurale de Corporis Dolore, ete.-Edinburgi, m.d.cccxant.

[^4]:    * The aubjoined graceful linea breathe the aame epirit. They occur among his MSS. With the date of May 1828. I quote them an illustrative of the thought above indicated.

[^5]:    * Byoopsis of the Organio Remains of the Cretaceous Group of the United Blatea. By Barnuel George Morton. Philedelphis: Key and Biddle. 1884.
    $\dagger$ The Acadeay bae recently (Janary 1852) received a speoimen of it

[^6]:    * Illustrations of Pulmonary Consumption, ita Anatomicsl Characlere, Causes, Symptoms and Treatment. With twelve colored plates. Philadelphia: 1834.
    $\dagger$ Principles of Pathology and Practice of Physio. By John Meckintosh, M. D., \&e. First American from the fourth London edition. With notes and additiong. In 2 vols. Philadelphis: 1835.
    $\ddagger$ An Illugtrated Bystem of Human Anatomy, Special, Genera, and Microscopic. Philadelphis: 1849.

[^7]:    - Letter to J. R. Bartleth, Esq. Transections of the Americen Ethoological Bociety, Tol ij. Nem York: 1848.

[^8]:    "Car il ne faut pas perdre de vae, mainterant que la connaissance extérieure du globe et de ses productions a fait d'immenses progrès, que le connsiseance de l'homme ent le baf fasel des aciencea ghographlquea Dne carrièra non moina vente que la premidre ent puverle an getie des vayeges; il importe, il est urgent mome, poar l'avenir de l'espese humaine et pour le besoin de l'Europe surtout, de connaftre a fond le degre de cirilisation de toutes les races; de sevoir exactement en quoi elles different on se rapprochent; quelle est l'suslogie on la dismemblanes entre leare regimes, lears mosurs, leurs religions, leara lengages, leurs atts, leura industries, leara oonstitutions physiques, afin de lier entre ellen ot nons dea rapporta plus rira et plas avantageax. Tal eat l'objot de l'ethnologie, ea qui est le seience même de la geographie rue dans bon ensemble et dens tonte sa beato gentralile. Bien que cette matiert singi enviagere soit prasque tonte nouvelle, nous de pouvons trop, néanoins, recommander les obsarrations do nette sapóce au sele des voyageurs."

[^9]:    * Etudes Géographiques et Historiques gur l'Arabie, p. 403.
    $\dagger$ Lectares on Phytiology, Zoology, and the Natanal Hintory of Man, delivered at the Boyal College of Sargeons, by W. Lawrenoe, F. B. B., to.

[^10]:    * The onaving paragreph will show more olearly Morhor's matared opinion on this subjeot. It is from an Introductory Lecture on "The Diveraities of the Haman Species," delivered before the Medical Class of Pennoylyania College in November 1842.
    "It (Pbrenology) further tesches un that the braln is the reat of the mind, and that it is a congeries of orgens, anch of which performs its own tepanto and peculiar fonction. These proporitions eppear to me to be physiological trathe; bat I allude to them on this wegasion merely to put you on your guard agninst adopting too hatily those minate detaila of the localities and fouctions of supposed orgens, which have of late found somany and meth realous advoceles."

[^11]:    "You will obaerre by the annexed Prospectur that I am engeged in e work of considerable novelty, and which, se regards the typography and illastrations at least, is deaigned to be equal to any publication bitherfo iesued in this coontry. You may be sorpriesd that I should eddrest you on the subjeot, but a moment's explanation may euffice to convey my riew and wisbes. The prefatory chapter will embrace s view of the varictics of the Human Race, embracing, emong other topics, some remarks on the macient Egyptirns. The posiHon I have alwayt aksumed is, that the present Copts are not the remains of the ancient Egyptians, and in order more folly to make my comparisons, it is very important that I ahould get a fow heads of Egyptian mommien from Thabea, \&o. I do not cero to bave them entirely perfect opecimens of embalming, but perfect in the bony atracture, and with the hair preserved, if possible. It has occurred to me that, an you will reside at Cairo, and with your perfect kowledge of affairs in Egypt, you would have it in your power to employ a confidential and well-qualifed person for this trust, who would anve you all personal trouble; and if twenty-five or thirty akulle, or even belf that number can be obtained, (aod I am assured by persons who have been there that oo obstacles need be feared, but of this you know best) I am rendy to dofray every expense, and to advance the money, or any part of it now, or to arrange for payment, both as to expensen and commisaions, at ay time or in any way you may desigate. With the Egyplen heade, I shouid be very

[^12]:    "Nor can I close this preface without recording my sincere thanks to George R Giddon, Esq., Dnited States Consal at Cairo, in Egypt, for the singular zeal with which he hen promoted my wishes in this respect; the series of crania he has already obtained for my use, of many nations, both ancient and modern, is perhaps without a rival in any exiating collection; and will enahle me, when it reseles this coontry, to pursue my comparisons on an extended acale." (p. b.)

[^13]:    "With regerd to your projected work, (Crania Egyptiaca,) I will, with every deference, frackly stale in few evanescent impressions, which, were I with you, coold be more fully developed. I am hostile to the opinion of the Afrionn origin of the Egyplians. I mean of the high eate-kings, priesta, and military. The ides that the monamenls support anch

[^14]:    - Even while I mrite (Deo. 1st, 1858) the news has reached of of the brutal murder by Utab Indians of Richard H. Korn, with Lieut Gunpison, and others of the party engafod in the eurey of the proposed middle roate for a Paciile Reilrond. So yonag, and so fall of hope and promise! to be ont off thas, too, just as his matured intelleot began to oommand him position, and to realize the bright anticipation of his many friends! The relstions of Mr Gliddon and myeelf to this new rictim of aspage ferocity were so intimate, that we may be excused if we pause bere to give to his memory a aigh - one in which the sobject of our memoir, were he still with ue, would join in deopest aympathy. But the sorrow we feel is one that cannot be free from bitterness, while the bones of Dick Kern bleach ansveaged upon the arid plaina of Deserat. We have bed too mach of sentimentalism ebout the Red-man. It is time that cant wes atopped now. Not all the cinnamoncolored vermin west of the Miviagippi are worth one drop of that noble heart's-blood. The busy hrain, the arlist's eje, the fine taste, the bsod so randy with either pen or peacil,could these be reatored to as agsin, they Fould be oheaply purchased back if it cost the externinstion of avery miserable Psh-Utah onder heavan! He is the second member of

[^15]:    "The parport of bis opinion is as follows:-In the first pleoe, the needie did not decelve the Indinn who picked it op in the grave. The bonea are those of a female. Her beight did not exceed five feet, three or four inches. The teeth are perfect and not appreciably worn, while the piphyos, those infallible indications of the growing state, have just become consolidated, bod mark the completion of adult age. The bones of the bands and feet are remarkably small and dolicately proportloned, which obserystion applies also to the entirt
    his family that has met this melancholy fate. His brother, Dr. Benjamin J. Kern-s pupil of Morton, and surgeon to the ill-fated expedition of Colonel Fremont in the minter of 1848-49 - was cruelly masaered by Utabs in the spring of 1849, in the mountaing near Thos. So long as our government sliows cases of this kind to remain without severe retribution, so long, in savage logio, will impanity in crime be considered a free license to murder at will.

[^16]:    - Etephens' Yuoatan, rol. i. pp. 281-2. - Morlon's CaLalogra of Crania, 1849, Na. 1050.
    $\dagger$ Crtalogre, No. 1852.

[^17]:    " A most interesting and really important addition has fately been made to our knowledge of the physical character of the ancient Egyptians. This has been derived from a quarter where local probabilities wonld least of all have induced us to have looked for it. In France, where so many scientife men bave been devoted, ever since the conquest of Egypt by Napoleon, for a long time under the patronage of government, to researches into this subject; in England, posseased of the immense advantage of wealth and commercial resources; in the acodemies of Italy and Germany, where the arts of Egypt hase been stadied in national museums, scercely angthing bas heen dono since the time of Dlamen-

[^18]:    * Pro-Adamita, sive exereitatio super veralbag duedecimo, decimotertio et deoimo questo eapitis quinti Epiatolm D. Pauli ad Romenos. Quibus inducantar primi Homioer ante Ademem condit. Anno Belatia moclv.

[^19]:    "Comme lea coquillegea et lea débria des productions de la mer, qul gont doposés sana
     tontea les histoires, il fot ocoupe et recouvert par les eana; ins ces emblêmes singuliera, sdmis dans touten les parties do l'encien continent, strestent qu'a des tems anterieurs a tous ceux dont psrlent les historiens, toaten les nations eben laquelle exisuérent ces emblâmen eurent un même culto, unt même religion, une même théologie, ot traisemblablement une mbime lengege."

[^20]:     Anlore Antonio Halaio. Lugdi. Batay. Edolyi. † Besei eur les Masure, Introd.
    \#eaherches ear l'origine, l'esprit ot len progrès den sris de la Grèoe, London, 1785, I. 1 . xiv.

[^21]:    * R. Pagne Knighe Letter to Bir Joa-Bankea and Sir Fm. Hamilton, p, 28 .

[^22]:    * Op. cit., p. 168.
    $\dagger$ The Doctrine of the Vnity of the Buman Race, examined on the Principles of Science, by John Dachman, D. D. Charlerion: 1860. pp. 291-292.

[^23]:    - In a letter of Prof. O. W. Holmas to Dr. Morton, (dated Boston, Nav. 27th, 1849,) I find the following passage, so just in its spprecistion of his soientifo charucter, that I tate the liberty of quoting it:-
    "The more I read on these mabjects, the more I am delighted with the severe and canHow charmoter of your own most extended reaebrehes, whioh, from their very patare, art permenent dats for all fature stodents of Ethnology, whose leader on this side the Athantic, to eay the leash, you heve so heppily oonstituted jourself by well-direoted sad long-000tirued eforts."

[^24]:    In tine, our ofr conclusion, long ago deduced from s patent examination of the facte than hriefly and inedequalely ataled, is, that the Amerioun rwoe is essentially eeparate and peculiar, whether we regard it in its physical, moral, or ita inteliectasal retationa To us there are no direct or ohvious links between the people of the old world and the new ; for oven edmitting the seeming analoglea to which we have alladed, these are so few in gumber, and eridently no assual, as not to invelidate the min position; and even sbould it be bereafter shown that the arts, sclences, and religion of Amenias aen be traced to an oxoto eonree, I masintain that the organle characters of the people themsalves, through all thoir oadlese ramifications of tribes and nations, prove them to belong to one and the same race, and that this rooe is distinct from all others." (p. 86.)

[^25]:    "I gan aver that stxteen yoars of almont daily comparinong have only confirmed me in the conclusions anpounced in my "Crenis Ameriosma," that all the American nations, excopting the Bakimanz, of one rees, and that this race is peculiar and digtinct from all olhers." ${ }^{1 *}$

[^26]:    * Ethnography and Archeology of the Amorlan Aboriginet. New Heven: 1846. (p. 9.)

[^27]:    - Trenseotions of American Bthnological Socioty, vol. ii New York: 1848. (p. 219.)
    $\dagger$ Hybridlty in animels and planta, considered in reforence to the queation of the Unity of the Homsa Speoled. New Heven: 1847. (p. 4.)
    $\$$ Letter to the Rev. John Beahmen, D. D., on the question of Bybridity in enlmele. Cherleaton: 1850. (p. 16.)

[^28]:    "Humboldt's word derolante is trae in seatiment and in morals-but, es you obserre, it is Wholiy inepplicatele to the physical reality. Nothing so bambles, so cruabes my apirt, at to look Into s med-bouse, and behold the drivelling, bratal idiocy eo conspicuous in such pleces; it conveys a terrific idea of the dirparity of haman intelligenctas. Bat there is the

[^29]:    * Costace : traduit par H. Faye. Paris: 1840. I. p. 480. Also, note 42, p. 679. Otté trenalates by depreseing In one plece, and cheerien in anothor. Cosmos: New York, 1850. L. p. 858

[^30]:    * "In preparing these notes we have even recolved not to refer to Prichard-who, we believe, in justly regarded as one of our beat authorities-whose work we read with great interart some years ago, (end which is allowed even by his opponents to bave been written in s spirit of great fairneas, and many of whase argomente we at the time considered masawerable." (p. 16.)
    "Afler this work wat nesply printed, we procured Prichard's Natural History of Manhis other coork we have not meen. We were aware of the eonolusions wh which his mind had arived, bat not of the proets by which his investigations hed been porsued." (p. 304.)

    Now, at the Natural History wes not pabliahed nutil 1848, it could hardly be the book read "eome jears ago" (prior to 1849); especially a Dr. B. confoses igrorsnce "of the process, \&o." [rupra.] That must heve been one of the earlier volumes of the Phyrical Resoarches, commenced in 1812, probebly the very first, which letves the subject sbort of the point to which Blamenbech rubeequantly brought it But Dr. B. assures as again, thet other work of Pricherd then the Natarl History he "hea aover seen." Then henever sat any, before writing his own book! His memory is oertalnly extremely vague. It is safo to conciudo, however, thet be andertook to mite upon this diftealt subjeat without the dreat consultation of a single anthority :- the reault in what might be regdily entieiputed

[^31]:    *Dr, Bachman's contempt for everything " old" is cerlainly very curiotus in one so likely, from calling and position, to be particalarly conservative. Nor is this his oniy singularity. His pertinacions ascription of a remote date to overy one whose name ban a Latinized tereninstion, reminds one of the story told of the backwoods lawyer, who persiated in numbering "old Cantharides" among the sages of sotiquity. He is particularly berd opon "old Hellenius," never failing to give him a pasaing flout, and talting sbout raising hin ghose The mritinge of Dr. B. do not indicate a very seanitive person, yet epen be must have felt a considerable degrce of the mensation known os cutis undetina, when he received the information, conveyed in Morton's quieleat manner, that "old Hellenius," with otbers of his so-called "munty" anthorities, were his own contemporsriea! The work of Cherreal, Which he dieposes of in the atme supereilioun way, hars the extreme date of 1846 !

[^32]:    * For further evidence that Iran, Asia Minor, Nesopotamis, Northerp Arsbis and Northern Africa, belong natarally to the Europens realm, see Guyot's Earth and Man

[^33]:    "Rthnology divides itself into two principal departments, the Scientific and the Bistorie Under the former is comprised every thing connected with the Natural History of Man and the fundamental lews of living organisms; under the latter, every fact in civil history which has any important bearing, directly or indirectly, upon the queation of races - every fact calculated to throw light apon the number, the moral sad physial peculisrities, the ently aeats, migrations, conquests or interblendings, of the primary divisions of the humae family, or of the leading mixed races whioh have sprang from their intormerrieges."

[^34]:    "No one that has not porked much in the element of History can be awere of the immense importance of oleariy keeping in view the differencea of race that are diacernible among the nations that inhabit different parts of the world. In practical politica it is cerfainly possible to pash euch athnographical conniderationa too far; as, for exampie, in our own cant about Celt and Bexon, when Ireland is under discussion; but in speculative history, in questions relating to the past career and the future deatinies of nations, it is only by a firm sad efficient handligg of this conception of our species as broken up into so many groups or masses, phytiologically different to a certain extent, thet any progress can be made, or any available conclusions moourately arrived at
    "The Nzazo, or African, with bis black shin, woolly hair, and compreased elongated skall; the Moxgoliak of Ebstern Abis and America, with his olive complexion, broad and all but beardless face, oblique eyea, and square bkgll; and the Cagoasian of Westand $A$ aia and Europe, with his fair shin, oval face, foll brow, and rounded skull: auch, as every echool-boy known, wre the three great types or verieties into which natoralists have divided the inhsbitants of our plangt. Acoepling this rongh initial conception of a world peopled everywhera, mors or less completely, with theae three varieties of human beings or their combinalioos, the bintorian is able, in virtue of it, to ennounce one important fact at the very ontaet, to wit: that, op to the present moment, the destinies of the apecies appear to have been carried forward elmost excluaively by its Cauobsian wariety." 5

[^35]:    "To recapitulate, it seems to us, after all we have said, that we may draw the folloping conolunions, viz., that ell Mammifers on the globe have a habitation, limited and oireomacribed, wich they never overioap; their assemblage contributes to give to each country its particular stamp of creation. What a contrast between the Mammifera of the Old and New Forld, and the creations, so eppeial and so singalar, of New Hollend and Madegsacar!"

[^36]:    " Under anch oironmanaces, we shonld ask if we are not entitied to oonciude that theas races mant here originsted where they oucur, es well as the calmals and plants inhabiling

[^37]:    "The circumstance that wherever we find a buman race naturally circumscribed, it is connected in its limitation with what we call, in natural history, a zoologien! and botanical province - that is to say, with the natural limitatione of a particular association of animels and plants - shows most unequivocally the intimate relation exiatiog between mankind and the animal kingdom in their adaptation to the physical world. The Aretic race of men, covering a trecless region near the Arctics in Europe, Asia, and America, is circumseribed, in the three contivents, within limits very similar to those oceupied by that particular combination of animals which are peculine to the same tracts of land and ses.
    "The region inhabited by the Mongolisn roce is also a natural zoological province, covered by a combination of animale naturally cireamacribed within the bame regions. The Malay race covers also b natural zoological province. New Molland again constitutes a very peceliar zoological province, in which wo hare another particular race of men. And it is further remarkable, in this connection, thant the planta and animals now living on the continent of Africs south of Allas, within the same range within which the Negroes are noturally circurascribed, bave a character differing widely from that of the plants and animals of the nortbern shores of Africa and the valley of Egypt; while the Cape of Good Hope, within the limits inbabited by Hottentets, is characterized by a vegetation and a Fauna equally peculiar, and differing in ite featares from that over which the African race is spresd.
    "Such identical circumgeriptions between the limits of two series of organized beings so widely differing in men and animals and plants, and so entirely uncongected in point of descent, would, to the mind of the naturalist, amount to a demonstration that they origipated together within the digtricts which they now inhabit. We say that anch od accumulation of evidence would amount to demonstration; for how could it, on the contrary, be supposed that man alone would assume new peculiarities and features so different from his primitive characteristics, whilst the animale and plants circumscribed within the same limitg would continue to preserve their natural relations to the Fauna and Flora of other parts of the world? If the Creator of one get of these living beings bad not slso been the Creatar of the otber, and if we did not trace the same general laws throughout nature, there might he room lef for the supposition that, while men inhnbiting diferent parts of the world -originated frome common centre, the plante and animals nssucinted witb them in the anme countries originated on the spot. Dot such inconsistencies do not oceur in the laws of nature.
    "The coincidence of the geagraphical distribution of the buman racea with that of

[^38]:    "In the higher order of animala, the two sexes concur in the formation of two individuale which represent them; thas the mother gives birth sometimes to one mede in her own finsge-at othera to one after the image of the father, Here she produces two very dintinot

[^39]:    "The igrorant Tark, you esy, subjeoted withoat difficulty the intellectual and lettered Greaks; the ferocions Tartar bandenfed the polished and learned Chineae; the violent Mongol bent under hir scimetar the besd of the studious Brahman; tha Yandal, fanally, rayeged Rome and Italy, then the centre of Erropean civilizotion. Take care not to accuse the sciences of a humiliation entirely dne to deapotism, which alone dagradea and debeses human hearts. Certainly, no one exposes his lifo to defend a government he abhors and despises. * * Perhaps a new vanquishar may be more generous; he cannol, at any rate, display himelf more atrocious and more orvel than those monsters, in their infamies." 4

[^40]:    "In traversing the part of Frenoe which corremponds to Orientel Gaal, from north to south, riz. : Bargoady, Lyons, Deophiny, and Savoy, I have dirtingulahed (ayy M. Edwards,) that type, so well marked, to whioh we heve given the name of Gall."

[^41]:    "Most of the divinities and personages of the heroic times," says M. Edwards, "are forned on the same model tbat constitutes what we term the beau-ideal. Tbe forms and proportions of the head and featuros are so regular that we may degcribe them with mathematical precision. A perfeotly oval contour, forehesd and nose atraight, without depression between them, wonid suffice to distinguibh this type. The harmony is such that the presence of these traits implies the others. But such is not the charsacter of the personagas of traly hintoric times. The philosophers, oratore, varriors, and poets, almost all differ from it, and form a group apart It cannot be confounded with the first - I will not attempt to describe it here. It is sufficient to point it out, for one to recognise at ouce how fur it is separated. It grestly resembles, on the contrary, the type which is aeen in other countries of Europe, while the former is acarcely met with there."

[^42]:    "We discover a people that has not been safficiently stadied. They speak a langange pecaliar to tbemaelvea. It is not known whence they come, nor when they established themselves there. The Abbanians seem to be in some respects in Greove, whet the Basques are on the two sides of the Pyrenees, the Bratons in France, the Gaela in England, and those who apeak the Eree in Scotland and Ireland-a remnant of ancient inhabitanta. Why not regard them as such, if it be true that we can find no trace of their foreigu origin in their traditions, history, nor in the comparison of langaage? Why may they not be descendents of the Pelangi?" [They call themselve日 "Skippetar ;" bat their Turkish name is Amacoot.]

[^43]:    "To throv light opon the queation of origins, it is necessary to appeal to a science more precige, and founded on the nature of the object which we examine. This seience in the Phyaialogy of reces, or, in other words, a riowledge of their moral and physical cheracters Through Physiologg has been esteblished the exintance of antediluvian baings, their genern, their species and their varieties; by it also we shall discover the origin of races of men, oved the most mytterions. Through it we chall one day be able to classify popalations as burely as we now clags animals and planta: history, philology, masle, inscriptione, the monumente of arls and of religion, vill be auxiliaries in these researches. Herein we consider its indications as motives of certitude, and jud decieions at st criterion"s

[^44]:    "Just as, in geology, tho grest primary strats underlie the more reoent superimposen formations, so does an older and more primitive population represent the original ocenpants of Europe and Aris, prarious to the extension of the newer, and (so to eay) second-ary-the Indo-Germans,
    "And just es, in geology, the seoondary and tertiary strata are not so contionoug but that the primery formations may, at intervals, show themesives through them, so elso do the trogments of the primery popalation still exist-disoontinuous, indeed, bat atill ospsble of being reoognised.
    "With such a view, the earliest European popnisdion was onoe homogeneons, from Lapland to Greaeds, from Tornea to Gibraltar. But it has been orerlad and displaced : the only remnants extant being the Finas and Laplanders, protected by their Aretio olimate, the Busques by their Pyrenean lastnesses, and, perhaps, the next nation in order of notice. The Euskaldune in only one of the isolsted langasgen of Europe. There is another - the Albanian." ${ }^{00}$

[^45]:    " $\Delta$ arica. - They are scattered along the whole cobst, from Moroceo to Egypt, besides being foond in many other parts. Moroceo and Fez, 300,000; Tunis, 180,000; Algiers, 30,000 ; Gabea or Habesh, 20,000; Tripoli, 12,000; \&c. Total, 604,000.
    "Asia. - In Meeopotamia and Assyria. The ancient aeats of the Babylonfan Jews are atill occupied by $\mathrm{f}, 270$ families, exclusive of those of Bagdad and Baesora. Akiatic Turkey, 830,000; Arabia, 200,000; Hindoslan, 100,000; China, 60,000; Torkistan, 40,000; Prorince of $\mathrm{Iran}, 35,000 ;$ \& c . Total, 788,000.
    "Elebare. - Rresis and Poland, 608,000; European Turikey, 821,000; Germany, 138,000; Prussis, 134,000; Netherlands, 80,000 ; Franoe, 60,000 ; Italy, 86,000 ; Great Britain, 12,000 ; \&e. Total in Europe, 1,918,053."

    In America, Milman averages thern at 6000 only; but this wa: certainly very far helow the mark, cven when his book was published, and they have since heen increasing, with immense rapidity. We should think that an estimate of 100,000 , for North and South America, would not be an exaggeration.

    This sketch suffices to show how the Judaic race has become scattered throughout the regions of the carth; many families being domiciliated, ever since the Christian era, in climates the most opposite : and, yet, in obedience to an organic law of animal life, they have pre-

[^46]:    " Both have had an Exodus; both are exiles, and dispersed among the gentiles, by whom they are hated and despised, and whom they hate and despise, under the names of Busnees and Goyim; both, though speaking the language of the gentiles, possess a peculiar tongue, which the latter do not understand; and both possess a peculiar cast of countenance, by which they may be without difficulty distinguished from all other nations; but with these points the similarity terminates. The Israelites have a peculiar religion, to which they are fanatically attached; the Romas (Gipsies) have none. The Israelites have an authentic history; the Gipsies have no history - they do not even know the name of their original cọuntry."

[^47]:    "Not so however with the human family. Notwithstending the mixtores of race during two centuries, no one han remarked a tendency to development of a new race in the

[^48]:    "The inhsbitents of the four quertert of the world, ecoording to the encient Egyptinn system: vix., 1st, the inhebiants of Bgypt; 2d, the Asiatice; 8d, the Inhabitents of Africa, or the blackt: and 4th, the Europeane"

[^49]:    "This is the very image of © Southern Arab, with his therp festuren, derk akin, and eertain national expreseion, admirably given in the draving."

[^50]:    "To meet with Gebracas in the eculptares cannot reasonably be expected, siace the remsins in that part of Egypt Fhere they lived bave not been preserved; but it is curious

[^51]:    " An' officer of Use-T-sEN I., as recorded in his tomb at Benihassan, received in the sixth regnal year of that monarch, by royal command, a convoy of thirty-nine (87) Mes-segem, foreigners, headed by their hyk, or leader, Ab-sia. These were of the great Semitio family, called, by the Egyptians, "Aamu." 201

[^52]:    "The Mes-stem foreigners, who approach the nomarch Neferhetp, come through the Arabian Desert on asses." 208

[^53]:    "Their common objects of parsuit are serpenta, lizards, ante, and grasshoppers. They will remain whole dayy without drinking; as a aubatitute, they chew succulent plants: they do not eat aalt. They have no fixed habjistion, but aleep in holes in the ground or onder the branches of trees. They are short, lean, and, in appearance, weak in their limbs; yet ere capable of bearing much fatigue. Their aight is acute, hut their taste, smell, and feeling, are feeble. They do not form large societies, but Fander about in families."

[^54]:    "The hair is of a very singular nature - it does not cover the whole surface of the scalp, bat fgrows in bwall tafts, at certain distances from each other, and when clipped short has the appearance and feel of a hard shoe-hruah, except that it is curled and tristed into emall- roand lumps, about the size of a marrowfat pea. When suffered to grow, it hangs on the peck in bard-twisted tassels, like fringe."

[^55]:    "The whole of the countries now described sre sometimes called Nigritio, or the Land of Negroes - they have likemise been termed Ethiopia. The former of these names is moro frequently given to the Western, and the latter to the Enstern parts; but there is no exact limitation between the countries so termed. The names are taken from the races of men inhabiting different countries, and these are interaperaed, and not separsted hy a particular line. Bleck and woolly-haired races, to which the term Negro is applied, are more predominant in Western Africs; but there are also woolly-haired tribes in the East: and races who resemhle the Ethiopians, in their physical characters, are found likewise in the West. We cannot mark out geographical limits to these diferent classes of nations; but it will be usefol to remember the difference in physical characters which separates them. The Negroes are diatinguished by their well-known traits, of which the most gtrongly marked is their woolly hair; but it is difficolt to point out any common property characteristic of the races termed Ethiopians, unless it is the negative one of Fanting the sbove-mentioned peculiarity of the Nogro: any other definition will apply only in general, and will he liable to exceptions. The Ethiopian racea have geaerally something in their physical character Whicb is peculiarly African, though not reaching the degree in which it is displayed by the black people of Boudan. Thsir hair, though not woolly, is commonly frizzled, or atrongly curled or crisp. Their complexion is sometimen black, ot others, of the color of bronze, or olive, or more frequently of a dark-copper or red-brown; such as the Egyptian paintings display in buman figures, though generslly of a deeper shate. In some instances, their hair, as well as their complezion, is somewhat brown or red. Their features are often full and rounded - not so acate and salient as those of the Arbbs; their noses are not fattened or depressed, bat scarcely so prominent as those of Europeans; their lips are generally

[^56]:    "They are always well made [eays Goldberry]; their features are regular, and like those of Europeans, except thet their nose is rather round, and their lips thick. They are axid to be remarkably handsome - their women beautiful. The complexion of the race is a fine trensparent deop black; their hair crisp and woolly."

[^57]:    "On reviewing the descriptions of all the races ennmorated, we may obserpe a relation between their phyaical character and moral condition. Tribes having what it called che Negro character in the most atriking degres are the teast civilited. The Papeld, Biesgos, Ibos, wbo are in the greateat degree remarkable for deformed countenances, projeotiog jewi, flat forebeads, and for other Negro pecoliarities, are the most savage and morally. degraded of the bations bitherto described. The converte of thie remark in applicable to all the mout civilised races. The FGlahe, Mandingos, and some of the Dabomeh and ints nationg have, as far as form is concened, nearly Eoropean countenances, and a corresponding configuration of the head ... In genersl, the tribea inhsbiting elevated countries, in the interior, are very soperior to those who dwell on low tracts on the the seacosst, and this superiority is manifest beth in mental and bodily quallies." Das

[^58]:    "The descent of the modern Nubisus or Barabra, from the Nouba of the hill country of Kordofan, aeems to be as well eatablished as very many facta which are regarded as certain by writers on ethnography."

[^59]:    "The Sunkiny have, in general, handsome and expressive features, with thin and very short beards; their color is of the darkest brown, approaching black, but they bave nothing of the Negro character of countenance." 29

[^60]:    "Their figure and stature are nearly the abme as those of the Southern Europenns; and their complexion, if darker, is only eo in proportion to the higher temperature of the conntries which they inhabit It displays, as we shall see, great varieties."

[^61]:    " The Tuarycks are a white people, of the Berber race. . . . The Mozabicks are a remarkably white people, and are mixed with Bedouin Arabs. . . The Wadreagans and Wurgelans are of a dark bronze, with woolly hair . . . are certainly not pure Caucacian, like the Berber race in general. . . . There is every probability that the Kuahitea, Amalekites, and Kahtabites, or Beni-Yoktin Arsbs, had, in obscare ages, sent forward tribes into Africe But the first historic proof of emigration of the Aramean or Shemitio race into this region is that of the Camanites of Tyre and of Palestine. This great commercial people settled Carthage, and pushed their traderg to the Pillars of Hercules." 288

[^62]:    "Their bistory is yet to be investigated and written. I yet maintain the opinion adranced somo years ago, that theae people were the tarre geniti- the aboriginal inhabitants

[^63]:    "Yet, with all this identity of s pecullar olepa of wards and similarity of some Infleetions, edjunct particles, and formations - the thres most antiat and hirtorical langwages, Arabilf Berber, and Coptic, are satentially distinct."

[^64]:    "We have alreedy alluded to the opinion of Prof. Ritter and othors, that the old Bejan and modern Bighsreons wers derived from the Berber or LLbyen btook of nations. I am ready to go ferther, and sdopt the sentiment of the leeraed Dr. Murray, thet the Egptians and monomental ethiopians ware of the same linesge, and pmbebly dosoonded from a Lhbyan tribe.
    "This riew of the case [he continaes] at once reconcilet the statement of Champollion, Bosellind, Hoeren, and Ruppell, that they could deteot the Nudian phytiognomy ererywhere on the monuments; but, at the same time, it supersedes the neseasity of their informose that Nubis was the aradle of odvilination, and that the arts, desocending the civer, wert parfooled in Egopt"

[^65]:    "I am more than erer confrmed in my old sentiment, thes Northern Africs was peopled by an indigenous and sborigiasl people, who were disposassed by Asiatio tribes. These aborigines conld nat here been Negroes, beeause the latier werd never edapted to the climete, and are nowhere now, nor ever bave been, lnhebitanta of these latitades. Fore they Pertbre ? - or some better race, more nearly alliad to the Arabian race ${ }^{\prime \prime}$

[^66]:    "I have seen in all eleven races of men; and, though I am bardly prepared to ix a positive limit to their number, I confess, after having risited so many differtat parts of the globe, that I and at a lose where to look for others." 300

[^67]:    "Dian Moxton:
    "This is the fourth day I heve been in the land of the Pharsohs. . . . . . Well, now for the Eggptian problem.
    "Your October letter is now beforeme, and the left-hand drawing besme most astonishing resemblence to my long-legged velet, Ali! (whom I intond to get degeterreotyped, if such s thing oan be found at Cairo), The Robber Race has swept amey everything at Alexandris;-nevertheless, by means of a specinen bere and there, I had not been three hours in the country before I srrived at the conclusion, that the ancient Egyptians were neither Malege not Hindoos, but $\qquad$

[^68]:    " Mention is often made on the monumenta of this period of the violories gained by the King over the Ethiopisas and Negroes, wherefore we muft not be surprised to sec black alaves and servanta"

[^69]:    "The prineipal indacements which led the Phareohs to the south were the reluable products, especially the minerals, with which thet region abounded. At the early period of

[^70]:    "For the purpose of illuntration, we select a single picture from the temple (bemispeos) of Deyt-el-Walee, in Nubia, in which Rameses II. is represented in the aot of mating war apon the Negroes - who, overcome with defeat, are flying in consterostion before bim From the multitude of fugitives in this scene (which bas beep vividly copied by Champollion ${ }^{3}$ and Rosellini, and which I bave compered in both), I anaex a fac-simile group of nine bealds, which, while they preserye the national features in a remarkable degree, present also considersole diversity of expression.
    "The hair on some other figares of this group is dressed in short and separste tufte, of

[^71]:    "From these data it appears that the human race exiated in the delta more than 57,000 years ago; and that ten soblerranean foresta, and the one now growing, will show that an exuberant flora exiated in Louisiana more than 100,000 gears anterior to these ovidences of man's existence."

[^72]:    "The ceanal resemblance of certain words in the langusges of America and those of the Old World cannot be taken as erideree of a common origin. Sach coipcidences may be

[^73]:    "As for langazges, their common structare, and even the anslogy in the aonnds of different langaages, far from indicating a derivation of one from another, neem to us rather the neeesary reault of that aimilarity in the organs of apeech which causes then naturally to produce the same sound. Who would now deny that it is an natural for men to speak as it is for a dog to bark, for an ass to bray, for a lion to roar, for a wolf to howl, when wa aee that no nations are no barbaroun, so deprived of all buman character, as to he anable to express in langage their desires, their fears, their bopes?. And if a unity of langage, uny auslogy in mound and etructure between the languages of the white races, indicate a cloger connection between the diferent nations of that race, would not the difference which bas heen obscrved in the structure of the languages of the wild races - would not the power the American Indians have natorally to utter gutturala wbich the white can hardly imitate, afford addicional evidence that these races did not originate from a common stock, but ure ooly closely allied as men, andowed equally with the same intellectusl powers, the same organs of speech, the same sympathies, only developed in slightly different ways in the different races, precisely as we observe the fact between closely allied species of the same genus among birde?
    "There is no oroithologist who ever watched the natural habits of birds and their notes, who has not heen eupprised at the similarity of intonation of the notes of closely aliied species, and the grenter differeoce between the notes of birds belonging to different geners and families. The ery of the hirds of prey, sre alike unpleasant and rough in alt; the song of all the thrushes is equally aweet and harmonious, and modulated upon similar rbythms, and combined in similar melodies; the chit of all titmice is loquacious and bard; the quack of the duck ia slike nasal in all. But who evar thought that the robiu learned his melody from the mocking-bird, or the mocking-bird from any other speejes of thrush ? Who eser fancied that the field-crow learned bis cawing from the raven or jackisw? Certninly, no one at all ecquainted with the natural bistory of birds Aed why should it be different with men ? Why should not the different races of men heve originnlly epoken distinct languages, bs they do at present, differing in the same proportions as their organg of apeech are variously modified? And why should not these modifiations in their tura be indicative of primitive differences among them? It were giving up all induction, all power of arguing from soand premises, if the force of such evidence were to be donied." ${ }^{3 \%}$

[^74]:    "—_These great national races have never sprang from the growth of a single fituily Into a mation, but always from the assaciation of several families of human beings, raised ebope their fellow enimala by the nature of their wants, and the gradual invention of a

[^75]:    "Not far from one handred enclosuree, of various sizes, and five hundred mounds, are found in Rose connty, Ohio. The number of tamuli in the State may be afely estimated at ten thousand, and the number of enclosares at one thonsand or fifteen handred." \%o

[^76]:    "Considering that the earth around these akelotons is wonderfully compact and dry, and that the conditiona for their preservation are oxceedingly favorable, while they are in fact so much decayed, we may form some approximate estimste of thsir remote antiguity. In the barrows of the ancient Britons, entire, well-preseryed akeletons are found, although possassing an undoubled antiquity of at least eighteen hundred years. Loonl cauges may produce singular resalts in particolar instances, hat we speak now of these remnins in the - 0 gregate." 37

[^77]:    " It is necessary to adrert to the diecoveries of $\mathrm{D}_{\mathrm{r}}$. Land, among the bone-aspes of Minss Gerdse, in Brszil. This dietiogaisbed traveller has found the remains of man in these carerns assooisted with those of extinct geners and epecies of animeis; and the attandant aircombtances lead to the reasonable conclusion that they were concemporaneons inbabitants of the region in which they were found. Yet, even here, the form of the akull diflers in nothing from the acknowledged type, unlens it be in the still greater deprension of the forebead and a peculiarity of form in the teeth. With respeat to the latter, Dr. Lund describes the incisors as bering an oval anface, of which the axis is antero-postarior, in pluge of the sharp and chisel-like edge of ordinary teeth of the same class. He assures us, that be found it equally in the young and the aged, and is confident it is not the result of attrition, as is manifestly the case in those Egyptian heads in which Profeasor Blumenbach noticed an analogous peculiarity. I am not prepared to question an opinion which I have not been able to test by personal obsercation; but it is obvious thas if such differences exist independently of art or accident, they are at least apecific, and consequenly of the highest internest in ethnology.
    "The head of the celebrated Guadaloupe stecteton forms no exseption to the type of the ruce. The skeleton itself, which is in a semi-fossil atate, is prenerved in the Britigh Maseom - but wants the cranium, which, however, is supposed to be recovered in the one found by M. L'Héminier, in Gaadaloape, and brought by him to Charleston, Soath Carolina Dr. Moultrie, who has described this very interesting relic, makes the following obserrations: 'Compared with the cranium of a Perarian presented to Professor Holbrook, by Dr. Morton, in the Maseum of the State of Sonth Carolise, the craniological similarity manifested between them is too striking to permit us to question their cational ideatity, There is in hoth the asme coronal elevation, ocoipital compreation, and lataral protaberance, accompasied with frontal depreseion, which mark the American variety in general. '"

[^78]:    "A'most all the nations of the world appenr, in their first attempts to compute tima, to have reborted to langermonthe, which they aflerwards adjusted in various ways, in order to make them correspond with the solar year. In America, the Peruvans, the Chiliana, and the Muyscas, proceeded in the same way; hat not so with the Mexicans. And it is a remarkable fact, that the shorl period of seven days (our week), so universsl in Europe and in Asis, Fas nuknown to all the Indians, either of North or South Americe." 300 [Had this learned and unhiasaed philologist lived to reand Lepsiag, 391 he would have excepted the Egyptians; who divided their monthe into three decades, and knew nothing of weeks of seven days. Neither did the Chinese, ancient or modern, fer ever observe a "acvanth day of rest." - G. R. G.]
    "All the nations of Mexico, Yueatan, and probably of Central America, which were Fithin the pale of civilization, hed two distinet modes of compoting time. The first and vulgar mode, was a period of twenty days; which has certainly no connection with any celesting phenomenon, and which was clearly derived from their aystem of nameration, or srithmetic, whioh was peculiar to them.
    "The other computstion of time was a period of thirteen days, which was desigrated as being the count of the moon, and which is said to have been derived from the number of days when, in each of ita evolutions, the moon appeara above the horixon during the greater part of the night. ...
    "We distingoish the deys of our monthe by their numerical order - first, seeond, third, \&e., day of the month; and the days of our week by epecifio names - Sundey, Mondey,

[^79]:    * Medico-Chirurg. Trans., xix. p. 851.
    $\dagger$ Idem, p. 269.
    $\ddagger$ Trans. of the Royal Boc. of London.

[^80]:    "For this purpose," he observes, "I filled the skall through the foramen magnum with, millet-seed, taking care to close the foramine and fisaures, so as to prevent the escape of the seed, and at the same time striking the craninm Fith the palm of the hand, in order to pack ite contents more closely. I then weighed the skull thus filed, and subtracted from it the weight of the empty one, and I thus determined the capacity of the cranian from the weight of the seed it was capable of containing." $\dagger$

[^81]:    - Essays and Heads of Lectures: hy Dr. A. Monro, xxisix
    $\dagger$ Das Hein des Negers, cre. p. 21.

[^82]:    * Cravis Americana, 1899, p. 269.

[^83]:    - Proceedings of the Academy of Nat Eciences of Philed. for April, 1841.
    $\dagger$ See my Cabiogue of Skulls, Sd ed. 1849.

[^84]:    *I bave in my possession the skull of a mulatio boy who died at the age of eighteen years. In this instance, the sagittal sutare is entirely wanting; in consequence, the latersl expansion of the cranium has oessed in infancy, or at whetever period the suture became consolidated. Hence also the diameter betreen the parietal protubersocas in less than 4.5 inohes, instosd of b, which last is the Negro nverage. The squarnous sutures, however, are fully open, whence the arull has continued to expand in the upward direction, untll it has rosched the average vertionl diametar of the Negro, or 6.5 inches The coronal atture is aleo wanding, excepting some tracses at ito lateral termini; and the rasult of this lest deficiency is seen in the very insdequate - of the forehead, which is low and narrow, but elongated below through the agency of the various cranio-facial antures. The lamdoidgl sutare is perfect, thes permitting posterior elongation; and the growth in this direction, together with the foll vertical diameter, has enabled the brain to atrrin the bulk of ——. oubic inches, or about -un lees than the Negro syersge. I believe that the sbsence or partial development of the sutures zany be a cause of idiocy by checking the growth of the brain, and therehy impairing or destroying its functions. See Proceedings of the Academy, for Augurt, 1841.

    + Mr. George Combe, Systom of Phraology, p. 83 , fa of the opinion that when the brain contracta, the inner teble of the aluall followit it, File the outer remaine etationery.

[^85]:    [ ${ }^{6}$ In May, 1851, about 887 akalle (MS. adderda to Catalogne of 1849). Since augmented by one or tro dosen. - G. R. G.]

[^86]:    * The doctrine of a pluraity of orfginal aroationa for the homan family, is by no meana

[^87]:    new; for it was believed and expounded by a learned Rabbi of the Aportolic age, in a commenlary (the Targum) on the Pentateuch. Rev. J. Pye Smith, Ralation betwean the Holy Seriptures and Geology, p. 898.
    I have invariably, when treating of this anbject, anowed my belief in the abotiginal dicer sity of mankiad, independently of the progressive aelion of any physical or accidenial carisen The words of the Hebrev Targum are precisely to the point: "God crasted Man red, Thite, and black."
    I now ventare to give a fulier and somewhat modified explanation of therir origin. Set Crania Americana, p. 3; Crania Syypinea, p. 87; Distinetive Charaeteritices of the Aboriginal Race of America, p. 86 ; and Hybridity of Animals considered in refernce to the guestion of the Dnity of the Human Speties, in Amer. Journal of Science and Arts, 1847.

    * Niebubr expresses this idea admirably when be remarks, that it is "false reasoning" to esy, "that nations of a common stock must bave had a common origin, from which they were genealogically deduced." History of Rome, I., p. 37. In other words, people of a common atock may have had atceral or many origing. Such appears to be the fact not only with man, but with all the inferior animals. We are nowhere told the latier were oreated in pairs. "Msle and female crested He them" - and the same words are unod in reference to the whole zoological series.

    Prof, Bailey of West Point, one of the most yaccessful microscopists of the present day, han shown, that the mud taken from some of the deep-ses soundings on the const of the United States contains, in overy cubio inch, hundreds of millions of living calcareats Potythaimia. Will any one pretend that these enimals were created in peira, or had their arigin in Mesopotamis !

[^88]:    * See Rev. J. Pye Bmith : Rolation between the Holy Soriptarea and Geology, sd. ed. pp. 898-400. Also, Hon and Rev. Williem Herbert: Amyrillidacert, p. 888.
    "Lé litren Juifa n'entendent par átablir que Jear promier homime ait été le père du genre hotmin, maia seulemeat celui de lear espece privilégié. In ne peat conséquemmenty svoir sacune impieté à recoanaitre parmi nons plasieurs especes qui, chaquie, earont eu lour Adan et lear bercean pertioaliar." Bory de St Vincent: L'Hornme, L, p. 66.

[^89]:    - Betham: Etruria Celtioa, I. 4

[^90]:    - Quoted by Rudolphi: Anthropologie, p. 158.

[^91]:    * For evidence of this kiad in relation to the inhnbitants of north-western Asia, even in very ancient times, see Herodotus, Melpomene, enp. cviii., and Dr. Wiseman's Lectures, pp. 108, 105. Pallss further informs us that the Nogais, who are decided Mongoliant, are fast losing their natural traits by intermarriage with the Russians.-Trav. in Rusia, p. 425.
    $\dagger$ A single example, now before our eyea, will illustrate this proposition. "Two handred yeare since, the Irinh language prevailed over the whole province of Leinster. English wis spoken only in the cities and great towns. At the present moment not one person in a thoussand, even of the lowest rank of the natives of that district, anderstand Irish.".-. Bethamt : Etruria Celica, i. 81. Hero, then, are $2,000,000$ of Celth, who, if judged solely by their spoken language, would be classed with the Anglo-Saxon race.
    $\ddagger$ Pricharl: Researchet, \&o. iii 826, 880.

[^92]:    * See the Timæus of Plato. Taylor's Trane. ii. p. 468. The sceurate Niebuhr remerke that, "in very remote timea the Peloponnesus was not Grecisa."

[^93]:    * Dr. J. C. Warren, of Boston, possessee two finoly presprved Roman cranis, from the ashes of Pompeii. It is many years ajoce I baw them, but they appeared to be kighly cheracteristic of this division of the Pelaggio race. The difference between the Roman and Greek heads is familiar to all observere, but it hes not been satisfectorily explained. It may have arisen from alliancea between the intrusive Pelasgio and aome neighboring, but dissimilar tribe, in Italy. One of the first acts of the Romane was to seize the Sabine pomen, in order to people their infant colony. These Sabines, however, are baid also to have been of Peleggic orfgin; but that the rural population of Italy, at that period, embraced a large proportion of Colts, may be inferted from history and confirned by the Etruscan vases; for pberever these relica now 80 numerons, pictare the sylvan deities, whether as fauns or estyrs, they are represented with marked Celtic featurea; while the higher and ruling caste, represented on the same vessela, has a perfect Grecian physiogromy. See Bir William Hamilton's Etrusan Fuset, pasaim, The trus Roman profile, however, is not anfrequent on the antique bes-reliefs of Persia Flandin: Foyage en Perce. pi. 88, 48.

[^94]:    * See President Saljebury's Dieconrse on Sanecrit and Arabic Literature: Nem Haren. 1848. The Ayra race derive their name from Iran, Persia.
    $\dagger$ Josephes, B. XIL. Chep. 2.

[^95]:    * Crania AEgyptiaca, pp. 41 and 46, and the accompanying plater. $\dagger$ Catalogue of skulle, Nos. 771, 772, 778.

[^96]:    * Crania $\boldsymbol{\pi}$ gyptiacs, 1844.
    $\dagger$ Proceedinga of the Academy [of Nat. Sciences,] for October, 1844.
    $\ddagger$ This op[nion, with some modificolions, has been entertained by several leeraed Rgypt ologiste - Champollion, Heeren, Lenormant, \&e.

[^97]:    * Lepsius: Chronologic der Agypter, p. 196. Dr. Lepsius dales the age of Menes, the first Egyptian king, 8898 before Cbrist, or 6743 yesra from the present time; and jet, in that remole time, Egypt wan already poasessed of her arta, institations, and hieroglyphic langatage. The reacarches of the learned Chevalier Bunaen furniah conclusiona nearly the semena those of Lepaius. Of the great antiquity of the Humsa Species there can be no queation. In the words of Dr. Prichard, it may have been chiliade of years.

    The ancient Egyptians appear to have had no doubts on this aubject; for a priest of Sais, addreasing Solon, spoke of "the multitade and variety of the dentractiona of the Human mee which formerly have been, and again will be ; the greatest of these, indeed, arising from fire and water; hut the lesser from ten thousand other contingencies." - Timats of Plato: Taylor's Trans. ii. 466.
    $\dagger$ Dr. Lepuius did not desire to retain these crania, because they bore no collateral evidence of their epoch or national lineage. The bones were in great measure eiready denuded hy time; and the appliances of mummification (which, in the primitive ages, consiated of little more than desiccating the body, had long since disappeared. As heretofore observed, I judge these relics solely by their intringio charsclers.

[^98]:    "Chez quelques nues des nombreuses [peuplades] qui habitent l'immense plaine du ser hara, chez les Tocarick, et ches quelques tribus limitrophes de l'Egyplo, les yeux ecartés l'on de l'autre, sont long, coupds en amandes, a moitié fennés, et relevés axa angles extériears."

[^99]:    * Aperçu Ǵńnéale sur l'Eggpte, L. p. 160.

[^100]:    * Desmoalins: Hint. Nar. des Racer Humaines, p. 165. Wert it not for the evidence of positive history, some future ethnologist might gravoly insidet that, because the Negroes of St Domingo speak the French lenguage, they are Frenchmen, to whom at tropical san, altered allmente, and change of habita, have imparted the black akin, projecting face, ud woolly hatr of the African.
    † 4 Winter In Laplend and Sweden: by Arthur de Capell Brooks, M. A., F. R. S.P.: Loodor, 1827, p. 688-87.

[^101]:    - Trasa. of the Royal Society of Stockhotra, for 1847. Egypt afordo a remariable example of the matability of lengrage; and Niebrhr (Hist of Reme, i. p. 87) considers it proved that the Palesgh, all the earticat inhabitants of the Peloponnemus, and many Arcadian and Attic nitions, posseased originally a different langoage from the Greeks, and obtained the Hellenic tongue by adoption. He adda, that those Epirotes whom Thacydides calle Barbarisna, "changed their lenguage, withous conqueat or colonisation, info Grek." Diodorne and Cicero mention the same frot with respect to the Sienli, "allthough the Greek colonies in Biely had only extended to a very few towne in the interior."-Niebuks, boce citar.

[^102]:    - Seo my loquiry into the Distinctive Charactoristics of the Aboriginal Race of Amerioa, p. 27.

[^103]:    * Mémoire de Is Soo. Roy. des Antiquaires du Nord, 1846-47, p. 78. See aleo Dr. Meigo's highly interating oommunication on the Homan Bones found at Santos, in Brasil, in Trass. of the Amer. Philos. Soc. for 1880; and Lt Strain's Letter to we, in Proceedings of the Acadamy for 1844.
    $\dagger$ Proofl of the rast antiquity of the earth, and of man's long sojourn upon it, multiply every day. The Hebrew chronology is a human compatation from the Book of Geneais, and while it fall far short of the time requisite for the works of Men, is infinitaly contracted when considered in reference to the ereations of God. The Egyplian monamente, as we have geen, date far beyond the period allotted to the Deluge of Nash (which wrat oridundy s partial phenomenon); and, on the other hand, the irresibtihle evidence of Ceological Science realizes the sentiment of Plato - that Past time is an elemity.
    "These views," observes Eir Charles Lyell, "have been adopted by all geologista, Whether their minda have been formed by the literature of Frence, or of Italy, or geandinavia, or Bngland - ali have arrived at the same conclusion reapecting the great antiquity of the globe, and that too in opposition to their earlier prapossassions, and to the popaler beliof of their age."

    All buman oalcolations of time are futile in Geological and Ethnological inquiries. Bpochs of vast doration are fully established by the nature of the organic remains of plants and animals that charsoterise the different formations; while the very intervin that eoparete these formations are eridenoes of other pertods hardly less astonishing. In fact, Goologioal epochs present some analogy to Astronomiont distances: the latier have been computed; the former are beyond calculation - and the mind is almost incapable of realising the one as the other. It cannot grapple with numbers which approximate to infinitude.

    It is atated by Prof. Nichol, of Rdinburgh, that "light travels at the rate of 192,000 miles In e seoond of titne, and that it parforms its journey from the Son to the Farth, a distance of $95,000,000$ of miles, in about oight minutes. And yot, by Roase's great taloscope, we are informed that there are stars and bystems so distant, that the riy of light which impinges on the eye of the observer, and ensbles bin to deteet it, inaned from that orb 60,000 years back." Westminster Reviev, 1848.
    "In the beginning God orested the Heavens and the Earth"-s sublime exardium, thet points to an aboriginal orestion, antediating the works of the Sepen Daya. Science has raised the voil of that ancient world, with all its numberiess forms of primeval erganization; but these are not noticed in the text, neither man, nor the inferior animala. When, however, we find the foseil remaing of the latter so varied and so maltitudinous, it is not inconmistent with true philosophy to anticipate the discovery of buman remains among the roing of that primal crestion. In fect, I consider geology to have already decided this question in the affrantive.

[^104]:    * Agessir: Principles of Zoology, p. 189.
    $\dagger$ Ainsworth: Aesyrio, Babylonia and Chaldaa; Eophrates Expodition, 1838, p. 111.
    $\ddagger$ Somerville: Phyaloal Geography.

[^105]:    - Lyell: Prinojplea.
    $\dagger$ Hitchcook: Geology.
    \$ Agands.
    (Lleat. Anjou'a Poler Vajuge.

[^106]:    * Beke, in Gliddon's Fandbook to the Nile, 1849, p. 29; and, Msp of the "Besin of the Nile.".
    

[^107]:    * Lyell's Principles of Geology, Cap. xy: $\dagger$ Lyell's Seoond Visit, Cap. Inxir.
    $\ddagger$ Bennet Dowler : Trableana of New Oriesm, 1852.

[^108]:    * Dowler: Tsbleaux of Net Orleans.
    $\dagger$ Idem.

[^109]:    - J. Pye Smith.
    $\dagger$ For the parallal antiquity of the Nile's deposits, of. Gliddon, Otis Fgyptiaca, p. 61-69.
    $\ddagger$ Recherches sur les Ossemens Fosciles: Liege, 1888, i. p. 58.

[^110]:    * Morton: Posthumous MSS.

[^111]:    * Buckland: Reliquit Dilapinnas.

[^112]:    * Vectures on the Connection between Science and Revealed Religion, by Nicholas Wise T.I. D. D. London, 1849.
    $\dagger$ Morton: Physical Type of Americen Indians. $\ddagger$ Recherchee, I. Pp. 59-60.

[^113]:    * Hamilton Smith : Netoral History of the Human Species. Edinbargh, 1848; p- 08-107. $\dagger$ Proceed. Acsd. Nat Sciences, Pbilad.; Ociober, 1846, p. 107.
    $\ddagger$ Leidy: On the Fossil Honce of America, op. eit., Sept. 1847, p. 265. Vide, aleo, Preceeding Aoud. Nat sciences; Deo. 1847, p. 828.

[^114]:    * An Account of some Homan Bones, found on the Coast of Brazil, near Santes; latitude $24^{\circ} 80^{\prime \prime}$ g., longitude $46^{\circ}$ W. By C. D. Meigs, M. D. Read 7th December, 1827 : Trans. Aner. Philos. Soe.; Philad. 1880, 价. pp. 286-291.

[^115]:    * "The Lecture of Aganaiz ;" Hobir Daily Thisure, April 14, 1858.
    $\dagger$ " Say 100,000 years, rinoe which time at least the marine animals, now living aloog the cosst of Florids, have bean in existence; for their remains are found in the corsi limestone of the everglades, as well as in that of the keys, and apon the reef pow grewing up outside of them."

[^116]:    * Antiquités Celtiques et Antédilnviennes: Mémoire sur l'Induetrie primitive, et lea erts亩 leur origine: par M. Boucher de Perthes - Parig, 1849.
    $\dagger$ Mémoires de la Société d'Emulation d'Abbeville - 1836.

[^117]:    * Boucher, PL I.

[^118]:    - Boucher de Perthes; p. 217-246. $\dagger$ Cuvier: Ossomans Fossiles.

[^119]:    - Boucher, Plate III.

[^120]:    - Boucher, Plate IV.

[^121]:    * Boacher, PL XVI.
    $\dagger$ Borcher, PL XVII.
    $\ddagger$ Ibid., Fls, KXIF., XXF.

[^122]:    * M. Boacher de Perthes: Antíquités Colíquea.

[^123]:    - Primitive inhabitants of Seandinaria, by Profespor Nilleon of Lond.

[^124]:    "As the result of mach obserration and refection, I now butmit a defnition, which I hope will obriate at least eome of the objections to which I have sluded: Sprecre-a primordial organic form. It will be justly remarked that a difficulty presents iteel?, at the outset, in deternining what forms are primordial ; but independeatly of various other sources of eridence, we may be greatly nesisted in the inquiry by those ponamentel records, both of Egypt and Anagria, of which we are now happily possessed of the proximato dates. My ver may be briefy explained by saying, that if certain exlsing organic types can hatraced back invo the 'night of time' as disaimilar af wo now see them, is it not more reasonable to regard them as aboriginal, than to sappose them the mere accidental derivations of an Leolated patriarchal atem, of which we know nothing? Hence, for example, I helieve the dog-family not to have originated from one primitive form, bat in many forms. Again, what I call s apeciea may be regarded by some naturalista an a primitioc varicty; bat, as the difereace is only in name and no way influences the zoological question, it is undecessary to notice it further." 30

    Morton himself has suggested the ohjection wbich really holds against his definition; and, for myself, $I$ should prefer the following : Speciss-a type, or organic form, that is permanent; or which has remained unchanged under opposite climatic influences for ages. The Arab, the Egyptian, and the Negro; the greyhound, tbe turnspit, and the common wild dog-all of wbich are represented on monnxuents of Egypt 4000 years old, precisely as they now exist in human and canine nature - may be cited as examples.

[^125]:    Among North American Indian dogs, saya Dr. Morlon, "the original forms are very few, and closely allied; whence it happens that these groteaque varieties never appear. Neither have they any approximation to that marked family we call hounds; and this faet is the more remarkable, since the Indian dogs are employed in the asme manner of hanting as the hounds of Europe, Asia, and Africa. Yet, this similarity of employment has caused no analogy of exterior form. No varieties hike those so familiar in Europe, apridg up inter ae among them. They are as homogeneous as wolf-races, from whom they are descended; and Dr. Richezdeon quotes Theodat to ahow that the zommon Indian dog hes not metarially changed during two bundred and twenty yeare. Again, the game remark applies to the indigenous aguara, ako, and techichi doga of Mexico and South America, which, before their admixture with Europeen breeds, conformed to the types or species from which they sprung without branching into the thirty varictict of Buffon, or the sirty of Brown."

[^126]:    "Les quelques tribus qui ee trouvaient aux environs de Port Juckeon, vont cheque jour en décroisesst, et c'eat ì peine si l'on cite quelques rares métia d'Aufrelien et d'Raropéen. Cette sbsence de metio entre deux peoples rivant ed contacte aur is même terre, prouve bien incontestablement la différence des espèces. On conçoit da reste que, si ces métis exithient, ile sernient bien facilés à reconnoitre, et ò différencier des eppèces mères.
    "A Hobart Town et str toute in Tasmande, il n'y a pan d'nventage de métis; toot co qui reste des indigènes (quarante environ) à êté transporte dans une petite fle du détroit de Bass." 46

[^127]:    "Catherise de Medicis amned berself and court by collecting, from varions quarters, a namber of male and female dwarfs, and forming marringes amongat them; but they were sll unprolific. The same experiment was made by the Electress of Brandenburg, wife of Joechim Frederic, and with the same result. Geoflroy Saint Hilaire, in his researches, has been able to discover hut one exception, the famous dwarf Borwilaski, and there are strong doubts about the faithfuiness of bis wife, who was a moman of full stature. Giants are litewise impotent, deficient in intellect, feeble in body, and whort-lived. It is a remarkable fact, that gisats and dwarfs proper are almost unkuown in the animal hingdom, while they are common in all the races of men, aud under all circumatances." 44

[^128]:    "The separation of the colored children in the Boston sebools arose, not from an indalgence in anti-Negro feelings, but because they find they can io this way bring on both reoes fabter. Up to the age of fourteen, the bleok children advence as fast as the whiteo ; bat after that ege, unleas there be an admintare of white-blood, it besomea in moat instapoes extremely difficult to earry them forward. That the balf-breeds ohould he intermediato between the two parent-stocks, and that the colored race should therefore gain in mental capucity in proportion as it approximates in physical organiration to the whites, secms natural; and yet it is a wonderful fact, paychologically considered, that we ahould be abit to trace the phesomene of bybridity even inte the world of intellect and reason" so

[^129]:    "What proportion," well aske the Westminater Review, "of the old Percy blood flows in the veina of those who claim the honor of the family's representation? The fanatics of - blood,' ic e., those who are not content to gield that reasonable amount of regard to it, which sense and sentiment both permit, should remember that when the msin line has merged, again and again, into other families, the original blood must be but a small constitaent of the remote descendant's personality.
    "The great anbverter of the aristocratic priaciple in the creation of peers, was Pitt In Ighting his battle against the Whige, he arailed himsell immensely of the moneyed intereat;

[^130]:    "The Eyyptian form (eays Dr. Morton) differe from the Pelasgic in boring a narrow and more receding forehead, while the face being more prominent, the facinl angle is consequenily less. The zose is atraight or aquiline, the face angolar, the features often sbarp, and the bair uniformly long, soft, and corling. In this series of crania I include many of Which the conformation is not apprecisbly different from that of the Arab and Hindoo; but I bave not, as a rale, attempted to note these disticctions, althengh they are 50 marked as to bave induced me, in the early stage of this invertigation and for reasons which will appear in the sequel, to group them, logether with the proper Egyptian form, under the provisional name of Auctral-Egyptian oramis I now, however, propose to restrict the latter term to those Caucasian communities which inhabited the Nilotic valley abote Egypt Ameng the Csucsaian cranis are some which sppear to blend the Rgyptian and Pelasgic charsctors; these might be called the Egypto-Pelasgic beads; but without meking use of this term, except in a very few inatancea by may of illuatration, I have thought beat to transfer these examples fromothe Pelasgic group to the Egyptian, inasmuch an they so far sonform to the latter series as to be identifed without dificulty." 44

    On reading over this classification aeveral comments strike me as worthy of ntierance 1st. That, out of 100 orania presented in a tabular shape (op. cit. p. 19), ooly 49 are af the Egyptian form, while 29 are of the Peleagic or foreiga type; and of the cranis from Memphls, ascertained to he the oldest necropolif, the Pelaggis prevail over the Eggptian in the proportion of 16 to 7. Those of Thebes are 80 Egyptian to 10 Pelaggic. This proves that the Egyptian popalation, if such classification be correct, was an oxceedingly mixed one.

    2d. The Sernitic mas, at all times, a type distinctly marked; and diverse both from the Pelaggic and the Egyptian, na our provious chapters iliustrate.

    - A. Hence, the conclusion is natural, that the earliest population of Egypt was a native African one, resembling closely Upper Egyptian Fellshs, and assimilating to the Nubian

[^131]:    "The preceding table speaks for itself. It shows that more than eight-tenths of the orania pertain to the unmixed Cauoasian race; that the Pelasgic form is as one to one and two-thirds, and the Semitic form one to eight, compared with the Egyptian; that one-

[^132]:    "A large, elongate-oval head (Fig. 258), with a broad, high forehead, low coronal region, and strongly aquiline nose. The orbits nearly round; teeth perfect and vertical. Internal capsaity 97 cubic inches; facial angle $77{ }^{\circ}$. Pelaagic form." ${ }^{744}$

[^133]:    "1. Austinuis-ombreces Nem Holland, and Tasmanie or Ven Diemen'a Land
    "2. Polymisia-all the inlends of the Pacific Ocean, from the west const of Americe to the Philippines, and the Moltucos; compriaing what have bean termed Niaruesie and Melenesia
    "8. Malateia, or Eate Indien-Indian Arehipalago; conleining the Suade, Pbilippine and Moluece talands."
    The three divisions togother are termed Oveanics; and the reces of men distributed over this vast area presont an infmite diversity of typos, which have also been variounly clessified. Prichard very fustly remarks that these Oceanic typead difer so much among each other, and from the inhabitants of the Old and New World, that it in now Impossible to treoe their origin ${ }^{49}$

[^134]:    The annexed sketches of three heads (Figs. 800-806) will, by comparison, illustrate this type better than language. Figs. 300 and '301, a Negro; Figs. 802 and 303 , the head (in my possession) of a Cherokee Chief, who died while a prisoner, near Mobile, in 1837 ; and Figs. 805 and 806, the antique cranium from Squier's mound [ubi supra, p. 291.]

    ## I shall now proceed

[^135]:    Two imporlant facts strika me, in glancing over thia Table:-1st, That the Ancient Pelaggic heads and the Modern White races give the eame size of brain, viz., 88 cubio inches 2 $\$$ The Ancient Egyptians, axd also their repreaentatives, the modern Fellahs, yield the same mean, viz., 80 cubic inches. The difference betmeen the two groups being eight cubic inches.

    Hence we ohtain strong evidence, that time, or climate, does not influence the sise of crania; thus adding another confirmation to our views respecting the penmaneacs of primitipe typen. The Hindoos, likewise, it will be observed, present the same internal capacity es the Egyptiana. Now, I repeat, that do bistorical or scientific resson ond be slleged, Why these raoes sbould be grouped together, under one common appollstive; if, by such pame, it is understood to convey the ides that these haman types ean have any eanguinous affiliution.

    Again, in the Negro group - Mhile it is shoolutely ohown that certain African races, whether bern in Africe or in America, give an idtarnal capacity, aimost identica, of 83 cubic inches, one sees, on the contrary, the Fottentot and Australisn yielding a mean of but 75 cubic inches, thereby showing a like difference of eight cabio inches. Indeed, in e Hottentot craium, (now at the Academy of Natural Sciences in Philedelphia, "pertaining to a woman of sbout twenty years of age, the facial angle gives 75 degrees; hut the internal capacity, or bize of brsin, measures but Ga cubio inches, which, Dr. Morton remarked, was as mall an edait brain (with one exception, and this also enative African) as be had ever met with;" so that, in reality, the everage among Hottentote may be atill lower.

    In the American groap, sleo, the same parallel bolds good. The Tolteend famity, our most civilized race, exhibit s mean of but 77 cubic inches, while the Burbsrous tribes give 84; that is, s difference of seven eahio inchas in favor of the savage.

    The contrat becomes atill more pronoanced, when te compare the highest with the lowest races of mankind; vis.: the Teutonio with the Hotentot and Auatralian The former family show a mean interasl capacity of ninety-two, whilst the two latter bave yielded but seventy-five cubio inches; or a difference of seventeen cubic inches between the skull of one type and thuse of two othera! Now, it is herein demonstrated, through monumental, cranind, and other teatimonies, that the various types of mankind have been ever permanent; have been independent of all physicsl influenees for thoussnds of yeara; and, I would ask, What more conclusive evidence could the naturalist demand, to establish a epecific difference between any species of a genus?

    These facts, too, dotermine clearly the arbitrary astore of all claseifications heretofore invented. What reason is there to suppose that the Hottentot has deacended from the same gtem es the African Mandingo, or Iolof, any more then from the Samoides of Northern Asia it or the Hindoo from the same stock as the Tenton ${ }^{1}$ The Hindoo is almost as far removed in

[^136]:    "We fully concur with s learned and eloquent divine (the Hon. and Rev. William Herbert), that we possess no information concerning the origin of the different races of mankind, 'which are as different in appearance as the species of vegetables.' No one of theso races has aprung up within the period of bistorical certainty; nor are we any better iaformed in respect to their 'innumernble langaagen, which cannot be reunited; and no person can show bow or when any one of them aroes, although we may trace the minglinga of one with another in the later yeara of the world.' "sais

[^137]:    " Human history cannot be a mere chapter of accidenta. The fate of nations canoot be always regulated by chance; its literature, science, art, wealth, religion, ianguage, lawd and morals cannot surely be the reault of mere accidental circumstances." sos

[^138]:    To judge the true nature of a "species" of animals, it must be viewed in its nataral sinte; that is, unchanged either by domeatication, or through foreign influences. To fadge s "type" of the homan family, it must also be studied separstely; unadulternted in blood, and in the natural condition in which ite inatinots and energies have pinced it Our domeatic animals, influenced by artificisl causes, now difer exceedingly in physigue aud in

[^139]:    "The Csucasian differs from all other races: be is humane, be is civilized, and progressea. He conquers with his bead, as well as with his hand. It is intelleet, after all, that con-quers-not the strength of a man's arm. The Cacasian has been often master of the other races-never their slape. He ban oarried his religion to other racen, bat never taken theirs. In history, all religions are of Caucarian origin. All the great limited forms of monarchies are Caucasiad. Republics are Caucasian. All the great aciences are of Canceasian origin; all inventions are Caucasian; litersture and romanee come of the same stock; all the great poets are of Csucasian origin ; Moses, Luther, Jeaus Christ, Zoronater, Budhe, Pythagoran, were Carcanian. No other race can bring op to memory zuch celebrated names as the Cancsaian race. The Chinese philosopher, Contucius, is an exception to the rale. To the Cancesisn race belong the Arabian, Peraian, Hebrew, Egyptinn; and all the European nstions are descendanta of the Csucasian race."

[^140]:    [The best parallel I have wet with in anvient history of the oonvertion of symbolical and national names lato personages, that might he asaimilated to the Hebrew map in Genesis Xth, ocears in Tacitus, 207 Speaking of the Germans, he gives one of their antique mythes (Which, during his time, wes corrent among them) in explanation of their figufative origina undripartite distribution into races. "Celebrant carminibus antiquis, quod unum apud illoa memorim et anmaliam genua eat, Tuaconem deam, torrà editum, et filium Manndx originem gentis conditoresque. MaN O tres filios assignant e quorum nominibua proximl oceano Ingavones, medii Herminones, cexteris Istavones vocantur."

    Tuisco is the god Mars. Mannos the Latinized form of our word "Man," in German Mans: "ones," is the euphonixing suffix to the primitive words Ingav, Hermin, Intare.

    The leamed Zeuss $0 \times 8$ has shown that Ingize is the same an Yugui, " noble;" molent utle of the royal race of Bweden. Sacev, slso meaning "illustrious," is traced in Astingi, rogal race of the Visigoths and Vandala: and Fermin, in old Oothic airmun, meant "the mighty ones."

    1. Hornin-ones, (in Pliny, Hermionct, comprehended four tribes: the Suevi, Hermudir, Chatti, and Cheruaci. These clans occupied inland Germany.
[^141]:     erolve the ethoolegicel fripartice ellomaliandion of the vribr.
    4Dark A rabia nerres for tho durk Crsirin (red-Eimydr) Arabe.
    \& Tha menthe of Ie rale of exegeris (Panne'g De FFith, II, PP TT-14b.)

[^142]:     [ wl myra, p. 64]

[^143]:    "Aggin the Devil taketh him on to a very high mountain, and ahoweth him all the kingdoms of the world, and their glory; cod saith unto him; + All thene will I give thee, if thou wilt fall down and torahip me.'"

[^144]:    "It must be observed that, when the ancients speak of Creation and destruction, they mean only formstion and diseolution; it being univerenlly allowed, through all aystems of religion or sects of philosophy, that nothing could come from nothing, and that na powtr tohatener could annithilate that which really mioted. The boid and magoifcept idea of a creation from nothing was reserved for the more rigorous faith, and more enlightened mibds of the moderns; who need aeek no authority to confirm their belief; for, wo that which is aelforident admits of no proof, ao that which is in itsolf impossibio sdmith of no refutation." ${ }^{\text {gra }}$

[^145]:    (1) The good Tidingr according to Jон⿱ $\searrow, ~ s 8$.
    
     "chall" of king Jemen't vardion.

[^146]:    (5) Archiologie, par M. Cy. Leromyny, de I'Inolital: Rowe Archen, ; Pails, 184; ive parte, pp. 1-17.
    (6) Bubliathoos Anticuaria; p. 181.
    (7) Annetion between Soience and Revenlod Religion; 1849; 7ol. 14 pp. 132-143.
    
    
    

[^147]:    (21) Ret. Dr. Noust: The Eyyptian Chronalagy Anatyant; London, 1848, p. 8
    (2a) Harmony, Chronide, and Order of the Ond Temmert, fe; London, 1617, 3. 6.
    (ख) Myotse origin of thin XXXIX "Arlacer" of the Anglken Chumb.
    

[^148]:    (25) Comemenary upon John: and Cbontra Olf., 15k Fidh.
    (2s) Ad Praman, sec. Hil.
    (Ii) De Incorn. Ferb. - amtra Ptrul Sariowabs.
    (25) Orice in E. $x \times 1 /$.
     asealio to a life of happlness, in the pactage, bas been the opinko of the moat juticlous and learned aitica for the Lut Lhreo buodred gears; such as Calvin, Mereler, Grotive, Le Clore, Patrick, Farborton, Durell, Moath, Ketricoth, Dooderleln, Dathe, Elebiorn, Jahn, Do Fioth, and many othery,"

[^149]:    (30) Nott: Diblioal and Phyricil Hidery of Han; 1849; pp. 136, 135.
    

[^150]:    
    
    
    

[^151]:    
    (40) Ibid, p. 4f - and IIoakz: Introd. to the Crit. Stud. of E. Serip.; 189s; if. pp. 70, 60; nots B .
    (40;) Th EHOly Bilk, newly trarelatad from the Oripinal Hitrew; with woted eritical and anplametory; London, 1818, tho - publisted by the subaciplons of hoyalty, Noblity, awl Cletge ; but neter completed, and now ont of print. Our quotaitans are from the "geaeral pretane."
    

[^152]:    
     plem, Peralce.
    (4) Author of Fetis Tatamentum Hebraicum ; cam varle Letlonlban; Oxon. 1500; and of Deswriatio Gorsrolih in Tams Teat Heb; ; 1780.
    
    (d5) Noft: Op. ©i.; p. 184.
    
     somenen Quarterly Revine; Nov. 1850.
    

[^153]:    (4) De Fiftis: Parker's transl.; Boalod, 1843; i. p. 128-dted by Nort, in the "Heply." Comp. alvo, Palr fras : Acockenical Laturet on the Jewihh Scripteret; Boaion 1838; 1. pp. B-20 - "It in out of the question for any man to suppose, that be can be mequalnted will Ilebrow as familiarly and thoronghly, as be may be with Iatn and Greptr:"
    (49) Conknta Geanicg: Hebrew Grammar; New York, 1840; p. 23.
    (50) Op. thi.; p. 567. Cf, Aloo, Muva; Polentike; Perk, 1945; pp. 433-489.
    (62) II. Diserlation; Oxford, 1750 ; pp. 679, 680, mp
    (62) BaskpE: N. Test; p. 165.
    
    
     Mis, © note 4.
     verts bletaris tabolerum plens oft"

[^154]:    
    (5G) Dus. Get. in Fa, T. Heb.; 1790; Tables, pp. 110-112
    (5i) Or. ell: "Gonuml Prefoct; 1818.

[^155]:    "It is needless to pronounce a formal encomium on our authorized version. The time, learaing, and labor expended on it were well bestowed. It far surpareen every other Englinh version of the entire Bible in the characteriatio qualities of simpliaity, energy, parity of style, as also in uniform fidelity [!] to the original. A revision of it, hoverer, is Fanted, or rather a new tranalation from the Hebrew and Greek, besed upon á [f]"-("S. D.," in E:170, ii. p. 919.)
    "No lets than 80,000 various readigge (58) of the Old and New Testament bave beea

[^156]:    
    
    
     alfquo codict, dya Mito dvo imprecio, toxtum incorraptum exhiber erbltatur. Miderent doed; divis ocdi-
     par. 13, p, i)

[^157]:    (39) Op. ciL ; 14 pp. 77-89
     Fo 140-480.

[^158]:     fiponene; 1845; pation
    (82) La Bumi: Traduction Norsele; 22 odavo volumes; Parle, 18\$1-15L

[^159]:    
    (H) Op. aì. $: 1$ pp. 281, 252
    

[^160]:    
     rable, do queleque barbe in vil prix," ta
    (6) On roturaing from the Captivity, "the chlidren of Fiabelah, the chlodron of Kon, Lbe children of Ban
    
    
    
    
    
     wrole thit pamage

[^161]:    "Those who advogate the free vae of philology in the interpretation of the Soriptures, find their fierceat and most ancompromising opponenta in the ranke of those who are olavea to the Paritanical Bioliolatry, so common in this conatry. Aecording to this school, every word in the canonical books of the Oid and New Testament (in king James's version) proceeds from a divine and miraculous inspiralion. . . . By those who believe in the pienary and vertal laspirstion of the (Engligh) Scriptures, acienoe in general and phitological acience in particular, sro viewed with distrust, if not with ebhorrence; and the more eo, if thia bibliolatry is comhined with e certain amonat of cechoriolalry." (83)

[^162]:    (18) The Priond of Hows; Kot Yoit, 180; p. 468, mole
    (79) 1 Kimp 生1; IL 1.
    (80) Hosment: on Oomecrice of Manetbo's XXIat dynuty.
    
    
    
    Don: OBia EDpptian; 1849; P. RQ
    (B4) DI Werte: K p. MOL

[^163]:    
    
    (if) Pumatip; i. p. 14t.
     prores that in to piace aso Twhephim "kdole"

[^164]:    
    
    
    
    
    

[^165]:    (91) Lata: Op. cil.; p. 34, the.
    
    
     not note 1 .
    
    
    

[^166]:    (98) IX pp. 66, 67.
    (90) Hownmenti Cie3i; 5. pp. 804-408.
    
     1852; 5v. p, 2
    (101) Sag. Shit; ch. Iv. 14 CL Camir: 571. p. 120, moder 1, 2
     fry the old ruciling.

[^167]:    (1*) Bee preesilag page, ninder Q.
    
    
    (108) Purship; 1. p. 8
     Zocrwzil: Dinctirte bafort the O. Le of Georghs ; Oct 89, 1881; p. 27.
    
     ato R. P. Ksiovt, to be ellod horeater.
    (10) OST: Atme Frop.; pp. 79, 18, 16; "genoonintha."

[^168]:     netes, ylif. pp. 26t-290, 855, 308.
    
    
     ological ingesuity will explafin how it ame to pats that the old town of Jebers wat celled "gelem" before it wh
    
    
    
    
    
    (13) Puralip.; i p. 91, \&p.

[^169]:    
    
    
    
    (116) 2 Eing rall 8 ; and 2 Chrom. $x \times x / v, 14$
    

[^170]:    (18) Honcosior: Obman ; trand. Oul; Kew York, 181; ; il, p. 17.
    (10) DE Fxas: i. p 411,
    
    (127) DE WETII: 1i Pp. 180-191; and p. 2228, tor Samid

[^171]:    (125) Like Bethon - "Horte of the Ban"; or ON, the Stor, Hebrex neme tor Haliopolif.
     teri (painle dodrited): Th pp. 38, 30.
    

[^172]:    (12) Nort : BAL and Phys. Fid.; 1840; p. 185,
    
    

[^173]:    "This apecies of deores concerns none but vile Enropenss: how om it decide anyhing apon the grand dectrise of the Chinere, of whom these peopie in Europe do not anderatand even the language ""

    And then enforced his jeat by banishing beth Jesuits and Dominicans, about 1721, to Maceo Protestant snecessors in the Celestial Empire are still perplexed with the same lingristio obatacle ; for about 1844, it was propeed to invent a new mame for Deity, (that is, zoither

[^174]:    (128) Dr. Bownury ; in London Liberry Garath.
    (12) GLImDon: Ois ; p. 120.
    
    
    
     Ohe duthors of the Englich Terrion"; by A. W. Yocions; 12mo; New York, 1863 It marliu nothing hare beyoed
    

[^175]:     other oplolons ne low wa the ninth century (Ift Diemert, pp. 30s, 30i).
    
    
    
    (141) K swowrr : IId Dispereation ; p. 407 .
    
    
    (144) DE Whris: i. p. 181.
    (145) Fudi p. 180.
    (146) DI Writa; i. pp. 181-18s.

[^176]:    
    
    (L64) Saam: Bist. of Eght; 1seo; p. 190.
    (16S) Dh Fenti: i. p. 160 .
    (150) DI Wrrri: i. p. 180.
    
    

[^177]:    (150) Analyris of Chromolony.
    (10) Op. cil; $1 . \mathrm{pp} .130-144$.
    (181) Egrpfs Flacm in Üniveranl Fial; 1849; 1. pp. 184, 18s.
    
     old and wise men to Alexandria, and contloed each in a separate room, without telling them the reason of their boing callet. He atormerde ririted eath of them, and directad them to writo down in Greek the words of
     1, we read nother pasiage: 'Flve sages were catled to Alezandris by the king Ptolemy, to traninte the law
    
    
     (7): "There are bertalo daya on whith we fart on accoant of the law : such a day to the sighth day of Theboth, beause on that day the law was tranalaied lato the Groek under the second Pholemy, king of Efrypt, and dork-
    
     colve that the mrters of these Tamulle legonds, tovernl centurios alter Josephus, hed morely given another
    
    
     enpi" Fidimur - we hate seen " men with an rye in the pit of their stomachs.
    (IGi) According to Phlla, the Jewi excoeded a million at Alexandrla olong (Rapapost's Ercu Milin; quoted in 5he Armonean; Ner York, July 20, 18s5).

[^178]:    every hers of Habrew athor the Captivity. . . . I ofter gon what your oppomenis cennot obleot to - that the the XILIth Chapter of Nifintse (the chronology of the book you know botier then 1 do). Jewleb or Chrimien chronology make it about 430 brient $X$. This ehaptar will ghow jou, that the Dregomen [Arablad Trogemedt
    
    
     treatlog of (about 550 after $X$ ); and be provee the fuct 'from the perpotual praetbe of the Byanfogue of exprundlag the fiebrew Leteon by a paraphrae of the vulgre tongue of the country.' . . I think these very
     Aeb. Syrache, dc.; p. 108).
    (188) DE Watte: 1. p. 165;-Tanar's calindi voce "Vereloni"
    
    
     July $29,18 \leq 9$

[^179]:    (170) Btesser : Op.ail; p. 185.
    (171) DE Fitre: Nas, p. 150; — Expmil: Origin of Chrimianis; pp. 464, 455, note.
    (172) "Bear witacsit God la one He is the Gocd eterial. Io never hna begotlon, and was nerer begot" (Kurden ; Sura exil).
    
     on Moant Zion, it an ecormaus coot - efter the expeniltare of bundreds of thoomadn of pounds, the 'Landin Foclety for promoding Christianlty among the Jewn' (a minaton prisided over biy a blabop and endowed by the
    
    
    
    
    
     pant year, buptied converie at the moderate rato of only fith 7a. 2ed. par head"

[^180]:    
    
    (175) Saskre: Op. civ.; p. j0a.
    

[^181]:    
    (ai8) flaid; In Dicert ; 17ss; Introd.
    (a79) Bid.; pp. 244, 201.
    
    
    
    
    
    
    (183) Chil Eid. and Defance of the O. J. Chmon ; Andover, 184s; pp, 194,
    (181) Conperdic di Crition Smera; Pame 1811; II. p. 97.

[^182]:    (107) Op. c4.; p. 330.
    
    (105) सhoix: Bordeax, 1828; 1. p. 28
     tred. Miraner; II. p. ff; for other exemplea.
    (106) Lnoous: p. 29; - and Kermoort: Disearl Gen; p. 16
    (10f) Kansis Hichadis ; IL p. 44
     Cwhollqua"; Pats, 1840 ; conduoted by the Abbe GLater and M. Winde

[^183]:    (199) Lacook: Op. cll-; 5. p. 3s
     and Spuda.
    
    (202) Op. tir ; p. 8 ; mote to ifl

[^184]:    (20) ) Ist Dietert.; 175s; p. $80 \%$.
     "And even lelegraphing to America, thruugh the conventent wires of Mr. Gliddod, tbe jet unpoulahed dr-
    
     to wirle more ink opon the axtugralabed author of the abore "Dootinne." - G. R.O.
    
    
    
    
     eqditort with thence bist Ijtul known In Earopa beyend collegato predinets.

[^185]:    
    (218) Sorip. Eing. Phen. Mon.; 1857; pp. 62, 63, and Table of Ajpiadeth p. B4.
    
    
    (216) Latre a Rosplised - Anvall dell' Insituto dl Corripond Arehool; Bomp, 189\%; 7al, ix.
    
    
    
    
     Dtard de Refotis ; L, premitre partle, 1845.

[^186]:    (Tis) Phiniagionl Proofy of the Origind Chity and Rectat Origin of the Human Race; London, 1816; Pp. 131-
    
    
     40 fram-dod."
    
    (2is) Wreon: Histary of Britich Andia; 1840; "Chronology and Hirlory of the Hindu;" 1, book 2, ch. 1, pr 168-169.
     ofapiled from earilor sourcee in 4. d. 803 ; If not later.
    (4a) Meraspanio: paraphrase of S. Sulpuciels Letter to Ciotro; oplat F. Ub. 4. The woond lino bue been
     and (rolj) funn weema to morn that be ja moriall"

[^187]:    (234) B4 [ugaon: Behithon ; part i Pp, 43-44.
    
    
    
    
     our Tiov.
    
    (217) Pauratit: Chise; p. 391.

[^188]:    （公院）Lait de Manoer；Introd．：p： 22.
    （230） hL ；book i．，sloke \＄1．
    （24）OLnvon：Oida：p 90 ，
    
    
    （242）＂Rewbee lise obatinacy of head－aratechers．＂
    
    

[^189]:    (245) Reterrchar; 1844; Iv. pp. 120, 121 ,
    (240) Remarches into the Natare and Affinity of Ancient and Hindu Nythatag\%; 1831; pp. 308, 290; ano pp.ax-42
    
    (24) Bobyion; 动 Expel, 184; 5p. 346, 591, 601, 009.

[^190]:    
    
    
    
    
    (201) Obid Pp, 100-102
    
    (2ss) Op. til: pp of wo 110.
    

[^191]:    
    
    
    
    
    
    

[^192]:     1819; par. 230, 271.
    

[^193]:    (20) Wilyo: Prolquanax; म. par. 25, p. 19.
    
     tron of the king."
    (25) About s.c. $625-2$ Kingr xxi 6; 2 Chran, xuxiv. 14
    
    (20) Ibdic ps.

[^194]:    
    (267) Hisces: Tram. R. Iriah Acad; 1848
    
     in the drebrealegia; Acc
    (200) d64.; iL hL 88, 90.
    
    

[^195]:    
     The ebadice witera alloded io In that dleonaras, an
    "Mere youths in telence, and to frme onknowin"
    Were the reverend authors of "Unity of the Fuman Hecsen 18s0; of an ertide th the Priacton Reviac,
    
    
    
    (775) Itanf ; xlly. 12
     benian Review ; Colnmba, B. O., So. 3, Jm. 1881; te
    

[^196]:    
    
    (259) ILwh: : Itx. 12.
    (280) Generi'; x. 17; sigpor, p. B8).
    (231) Etuodur ; xyi 1; xyII 1.
    
    (283) E4nclil: xxx. 16, 14
    

[^197]:    
    
    Phys. Fire of tha Jewish Racs; 1950; pp. 12, 13; and njpra, pp. 117-12-1
    (297) CaEEM : Bikle; lx. p. 178, noiv 12
    (288) Dradruld: Amerionn Antiquitict.
    (289) Doskux : Afphanidin; pp. 6s, 66.
     48;-Pyctotira: Racer; 1848; p. $\mathbf{2 1 0 .}$

[^198]:     thers.]
    
    (27) Babylon : p. 200.
    
    (2.0) Crunia AToptiaen: 1844; p.62
     Grom matres de ia Langwe Cople: Jode, 184; pp. 7-10. Tho porual of these two mitipuet migbt becielt thy athor of Horce tigypliscar.

[^199]:    
    
    
     Archlel. 18 Mart, 1840 ; treats is part pp. 3-28, and woot-outs, pp. 18, 10.
    

[^200]:    (30S) The rutatante of our remarks appeared, under the beadlog of "The Progrest of Knowledge terinu the
    
    (308) American Cinitization: Trane. Amer. Abper, Elhnol, Boe; 1645; i. p. 1 is.
    

[^201]:    
    
    
    (310) American Archaology: "The Serpont Symbol;" Iess; pp. 170, 171.
    (311) Sxetched in the New York Trbewac: 24 Nav , 2 OL 2

[^202]:    
    
    (314) Opta of Indian Ajuirs ; 4io, Washington, 1851.
    
    (9,6) Landon EMnolagical Jokrna'; loc. cith.

[^203]:    
    
    
    
     ology, pp 857, 500, 500, 570.

[^204]:    (3.1) Bonsk : Eghpit Place in Umineran Hiplory; Lodon, 1848; 5., PTeface, pp. 1. 2
    
    
    
    
    (824) Rend Dr. Aexotb's ealoglef of thls illustriout mentlemat.
    (225) GupDos: Oiq Agyptiaca; 1819; pp.) 21,92

[^205]:    (828) London Ehendeginal Jownal; June, Jaly, Novembar, December, 1848
    (327) Op. ait ; pp. T4, 275.
    
    (32i) Bancocin, Director of the Muepum of Turin; Diterid Criter efpra Ia Cronoiogia Eginia; Torino, 184; pp. 29, 43, 44, 14 .

[^206]:    " 13 By these five cubla and a half for the buidding of the Ark of the Old Teslament, we perveired and
     ark or tabersecle of the body;
    14 And so our Seripturea temity that he ik the Son of God, and tha Lond and King of Igzael,
     bls menge, we oponed that book to cearoh all the generalona down to the geniration of Jomph and Hary the mother of Jernh, suppoang him to be the meed of David;

[^207]:    (342) Hennix: Ohritian Theion ; 1846; pp. 62, 82
    (63) Seder Olam Rabta, compoed aboat i. v. 180; apod Fum
    (334) Diseratio Gencrulii ; 878, pp. 82, 80, 7.

[^208]:    
    
    （87）Analytit：t．p． 912
    
    

[^209]:    
     Prue Age of the Forid; London, 184, pp. 14-16.
    

[^210]:    
    
    
    (350) Eincy on the Theory of che Earth; 1817 ; p. 171.
    
    (355) Amewosta; Aspria, Rabylonia, and Chaldad; Londoa, 1899 ; pp. 101, 104-107.
    (358) Downa : Tableancr of Noc Orlearn; 1852; pp T-17.
    
    

[^211]:    
    
    (307) Quad Ifecr, dal. Lit. Arme; Yenarig, 1820 .
    
    
     VHe Braves: Fie \& Jenw; 18ss; i pp. 254-292

[^212]:    
    
    (512) Da Baticy: De FEtude der Bíkrogippher; Hat. d D. Mooden, June, 1840; p. eas

[^213]:    
    (374) Fars: ropubinhed In Itailan, at Pise ; but now out of cirenlelon.
    (870) Jamin Haymbiton: ont of print, and extremely rave.
    (STi) Wnaxacor: like the preoeling.
     London, Mediam.

[^214]:    (38) C日, (1)

[^215]:    
    (381) Aptple Ancienme ; Unlvert Pitioresqua, 183 .
    (892) Canpounos: Lattr d M. Daciar ; 1827
    (883) Momanat Strisi; 188\%; vol. 1. p. 111

[^216]:    (804) Topagraphy of Theber; 1894, pp. 808 and 500.
    (385) Gupdow: Chapert ; pp. 51, 52
    
    
    
    
     1848; pp. 44-s1; De Ravof: Requen de FOrorige de M. Bureen; 1817; pp. 18, 17, Eatrail des Annaies de
     Berut A rebsologique, 15 Oot 1847; pp. 470, 480; - Lasurus: Chronaingic des Rois de Anple; ouvrage confonnd;
    
    
    (ion) Lettres di Anple: Parts, 1840.

[^217]:    (392) I am bappy to find that this (by myeif long ago ahandoned - Ofict po. 87-43) echeme of the poedble
    
    
    
    
    
     Oompare Lilerary Gavite; 1ondon, 1849; pp. 485, 523, and 641; with Chupera; p. 81.)- G. L G.
    
    
    
     pp-189-182.

[^218]:    
    
    
    
    
    
     to the groertl reltar.

[^219]:    
    
     "Fragments of an Oration egalurt Demorthenes," London, 1B48; alo to the pappris freguenta of "Dookn
    
    
    
    
    

[^220]:    
    
    (411) Sur ke Steadrie de la Douricme Dymatie; Rev. Arcb(os), 154i; p. 482.
    
    
    
    Lhypl; 18.99; pp. 4, 14, pl. 2, 8gl. 23, 32

[^221]:    
    
    
    
    
    （4．0）Besery：p．S88，B， 1 ；Ceampownon ：p．100，No．60－＂B．＂
    （4ㄹ）Citronolaty；p． 4
    
    （48）Roarwnst：Curkasche No． 103.
    （424）Ibdi；＋Curtouch No． 103 f ．
    
    
     In the London Athonam，Nov．19， 1851 ＂The thind alm of the paper wes to ebow that the 3d and 4th pyren
    
    
    

[^222]:    
    
    
    
    (129) Maderia Hierogispden; Culro, 1E27-wif; Sippleant and Text, Malta
    (129) Nummers and Custome; 188t ; 1. p. 41.
    (430) Handboot for 5 Hewelleri in Egypl ; 1817; p. 17.
    (Li1) Ghidoon: Ghapkeri p. 11, $a$.
    
    (453) Filentry Gardte; 1840; p. 480; "Calm, May, 1849."
     Arebbal, Jane, 104, p. 208.

[^223]:    (485) Mbid.; p. 6S2; "Oalro, Jane, 1940."
    (489) Jied. : p. 5Ed
    (497) Ibial. p. 010.
    
    
    (40) Hotre; p. 29
    (41) Bora; p. 28.
    
    

[^224]:    
    
    (46) Mobis Daily Regider, A prill 1, 18s8- "Lethar from Pept-Calro, Fob. 14, 1898"
    
    (48) Letior to Mr. Ginition
    (49) Lellar to Dr. Nots.
    (450) Foras; p. © - "Great Penegital Years"
    (4I) Do; p. SE- ${ }^{4}$ Greal Penegital Month."
    (42) Do. ; p. 64,
    

[^225]:    
    
    (186) Op eit.: p. 63, and p. 97 .
    ( $\Delta T$ ) Buctou: Carond. reforeata; p. 28.

[^226]:    

[^227]:    
    
    
    (468) Gnppos: Otia; pp. $61-2$.
    (460) Chromolapy and Geapraphy; 1889; p. 13, and fable, pp. 14, 14.

[^228]:    （407） 1 Kiget riv．25； 2 Chron．工ل1． 2
    （488）OwDos：Chapera；p9．
    
     Bev．Arehboi．，1810；125－12L
    （4io）Gubnow：Otia；pp，4， 45.
    （171）Bride awd Enypdin；Pp．364－300．
     Roehers de Stind ；Rev．Arehtol，1848；9p． 312318
    
    
     Douctime Dymatin；Rev．Archeol，184 ；pp．481－489．
    
    
    

[^229]:    
    
    
    (177) Chronndapin der Dypadier Spypienter ; Ber. Arebtol., 1851 ; pp. 168 167.
    
     and "Obwertallon" In Wnimson's Papyrer; pp. 64, \&5.
    (479) Gumbor: Ofin ; p. 38. For all detall acp autboritien in the preceding pote-
    
    (481) Kmict: Op. ali; p. 110 .

[^230]:    
    
    

[^231]:    （4g）Lxptod：Forthulpe Nachricht，1840；pp．17，29．
    （489）Brenc，in Owa Neyptiacos p． 87.
    
    
    

[^232]:     fwaries: Londot, Moddet, 1841, pasim.
     gecret de l'Orient, p. 183.
    
    

[^233]:    (19) Dealenowny, x1x. 11, 19.
    
    (498) Levilicut, xix. 18.
    
    (49日) Good Tidingt, v. 49, Beanm'a N. F., p. פ.
    (190) Gand Tidings, x. 27, 7T- Prich, p. 132
    
     い Catra'a Bubla; 1E13; iv. p. 20.
    (502) Chine; pp. 144, 147, and nole.

[^234]:    
    
    

[^235]:    
    
    (307) Pavtaik: Chime ; pp. 12-4; and hia Chowhing; pp. 49-60.
     Arcb6ol, Pek 1853,
    ( 600 ) Amalyris: J. pp. 100-fins
    (610) Chine: Pp. 438, 40, 445-440.

[^236]:    (bil) XI. 7.
    (012) C7ino; pp. 62, 104, 2000
    
    (114) Chine; PP. 2T2-28.

[^237]:    (618) Chias ; p. 201; Flain 58-44
    (617) Biad; Pp. 88-84.
    (518) Liv. Bace. de FOrient ; pp. 13-42
    (b19) Fico: Shimar Nuota; Princlples, exiom ill
    (520) Chine ; pp. 22-24; - Livers Sharid, pp 19, 10.

[^238]:    
    
     Rocerith, Arehbologic Comparts; with Deptis In Artion'r Craw. Dic, "IIercules."
    (025) "Y2 [Maradon ebm Pharaion" le generally renderad "Tbou Pharsok won of aharab"t Hhy not
    
    
    

[^239]:    (52i) Hovin: In Chatdicy te; 1832; p. 148.
    (528) Genenis: II. 14.
     anty," "Le Tigre coule en apand trya Asmonr."
    (S90) Mapavp: Hiap der Croimoder ; iv. p. 274

[^240]:    (B91) Nianed and ITrepolir ; London, di, 1852
    
     enthortien

[^241]:    
    
     0 CL 1850.
    (630) Lathnd: Nincoeh and it Remaits; Am. ed, 1849; pp. 17\&, 179, 185.
    
    (B3s) Chrowoingie der Afpypier ; 1. pp. B-12
    
    
    ( 010 ) Lipetus: i. p. 10.

[^242]:    (BH) Inptiv: Chromologie der Exgpter: L. pp 14, 14, nole.
    (40) Joak T. 6.
    
    
    (148) Op. ax ; p.94.

[^243]:    (64) Revarrelet ; 1847; 7. p. 840.
    
    (601) Op. cil.; Pp, Bes, 806

[^244]:    
    
    
    (308) Numb. 1. 8-18, 38.
    

[^245]:    8d. That, as said bofore, there are no recorded dated in the Jewish Sariptarea that are trastwarthy; thet, it is we maderns who must make Hebrow chronology for the antique Jown - who, until Rabbi Eillel, hed not thought of doing it themsolvee; - and that, in these restorations, we cesse to tread open historical ground to soon as we rotrogrede to Solomon's ers, asid to correspond to a. C. 1000. Beyond that oipher, Jewish obronology is all conjectrre, within $a$ few epproximate limitations
    Mosen, or the Hftrens, being unmentioned upon Bgyplien monaments of the 12th-17th canturies a. o., and never alluded to by any extant writer who lived prior to the Septugint tranglation at Alecnadris (commenting in the 8 d contary $\mathrm{B}, \mathrm{o}$ ), there we no extraneous aids, from sources elien to the Jewinh books, through which any loformation, worthy of historical neceptance, can bo gathered aleowhere about him or them. *

    With these emphatio reservations, we are quite willing to consider Lepsiun's computative bynchroniams an not merely the most eientific hat the only prohable. His estimates plece the Jevish Eirodus in the reige of Pharsoh Menephthee, of the XIXth dynasty, about the year 1318 m. c.; (367) or miber betwen the yeard 1314 und 1822 в. c.: if wo have understood our authority oorrectiy: (658) to which we add the following comperntive vien

[^246]:    (567) Chroniagn; p. 378, compernd Fith pp. 885-85I.
    

[^247]:    

[^248]:     Tan unfreral; and, th theography, is mo mill.
    (560) Ohrwos ; tranal. Oth ; 1840; if p. 115.
    (56T) Analyris of Mythalegy.
    
    (58A) Churnologic; 1 Pp. 4-6.
    (870) Fitation; 1 pg. 2809, 203, 114-489.

