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## AAF BISTORDCAL OFFICE HEADCUARTERS, ARMY A!R FORCES

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AIR PIASE OF THE ITALIAN CAMPAION
TO 1 JANUARY 1944
(Short Title: AAFRH-15)

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FOREHORD

This study, prepared by It. Col. Albert F. Simpson, AhF Historical Oifice, tells the story of the planning which preceded the invasion of Italy in September 1943, and recounts Allied air operations and organizational developments during the first four months of the Italian campaign. The study follows Air Phase of the North African Invesion, November 1942; The Twelteh Air Force in the Horth African iinter Campaign; The Conguest of Pantelleria (in process); and Farticipation of the Yinth and Twelfth fir Forces in the Sicilian Campaign, thus carrying to 1 January 1944 the story of air operations in the Iediterranean. Like other studies prepared by the Historical Office, this study is subject to revision as additional information becomes available.





OONTDNTS
I STRATAMIC RLAmIXG FOE THE INVASION OF IIALY, NOTEMESE 1942-AUGUST 1943
Early Plans for Fost-Iunisian Cperations ..... 1
The Cesablanca Conference, January 1943 ..... 7
Theater Hlanning, larch-ivay 1943 ..... 10
The IRIDBIT and Algiers Conferences, Nay 1943 ..... 17
Final Strategic Flans, AFH2, June-August 1943 ..... 25
The GUADAUT Conference, August 1943 ..... 40
II FINAL PLANS FCR TIIE INVASICN CF ITALY
Organization of NAAF ..... 43
Cutline Plans for BAYMO and avaldione ..... 49
Efforts to Strenethen MAF ..... 53
The Air Plan for AVALitCHE ..... 60
The Over-Ail Plan ..... 60
Strategic Bombing ..... 61
Cover for Gonvoys, Assaults, and Beaches ..... 64
firborne Operations ..... 70
Secondery Air Operations ..... 71
Air Service Comand ..... 75
Last-Minute Changes in Air Plans ..... 75a
Lir Operations, I8 August-2 September ..... 76
CAF Activity, 18 August-2 September ..... 84
III THE LLLNCHING OF BYTON aND AVALANCHE
BAYFOMN, 3-S Sentember ..... 93
Ground and Air Operations ..... 93
Cperations by Strategic ..... 99
Enemy Air Activity ..... $104 a$
AVLLANCHE, 9-11 September ..... 107
D-Day ..... 107
Operations on D plus 1 and D plus 2 (10-11 September) ..... 116
The Critical Feriod in AVALANCHE, 12-15 September ..... 130
The Cerman Counterattack ..... 130
Air Cperations During the Critical Period ..... 133
Secondary iir Operations, $9-15$ September ..... 149
Cummary of the Air iffort ..... 151

IV ATF OPERATIOKS DURING THE LAST HALF OR SEPTMEER 015
Flust Fhase: 16-19 September ..... 156
Second Phase: 20-30 September ..... 161
Soad Blocks and Close Sooperetion, 20-24 September ..... 162
Cperations Apainst the Corsica-Leghorm Evacuation Route ..... 164
Enengy Air Activity, 20-24 Septeruber ..... 166
inlied Bomber Cperations, 24-30 September ..... 168
Fighters and Fighter-Bombers, 24-30 Septenber ..... 171
Construction of Airfields ..... 171
Summary of Alied Air Activity, September 1943 ..... 174
Significance of the Italian Campaign as of 1 October 1943. ..... 179
$V$ AIE OFENATIGS DURTHG COTOBER
First Fhase: 1-8 October ..... 183
Strategic Aix Force ..... 184
Tactical Air Force ..... 187
Second Phase: 9-14 Cotober ..... 191
Third Fhase: $15-31$ October ..... 196
Tactical Air Force ..... 196
Strategic Air Force ..... 200
Enemy Air Activity ..... 211.
Summary of October Cperations ..... 213
VI THE ESLELISEPDT CR THF FIFTEENTH AIE FCREE
The Tactical Situation, November-December 1943 ..... 216
The Fifteenth Air Force ..... 218
Genesis ..... 218
Estiblishment ..... 229
Structure ..... 232
Flans fior the Build-up ..... 233
Cbjectives and Target Friorities ..... 239
The Strength of NAF, Novenber-December 1943 ..... 246
lovement of tinits ..... 248
riscellaneous Develonments ..... 250
Tngineer Comand ..... 250
Fipe Lines ..... 251.
Adriatic Depot ..... 252
The Aix Prospect, November-yecember 1943 ..... 254



## THIS PAGE Declassified IAW EO12958

## VII AIR OPERATIONS DURING NOVEMBER

Tactical Air Force ..... 256
Fifth Army Sector ..... 256
Eighth Army Sector ..... 259
Strategic if ir Force ..... 265
Lines of Communication ..... 265
Combined Bomber Offensive ..... 269
Gounter-Air Operations ..... 273
Other Missions ..... 275
GAF Operations ..... 278
Summary of NAHF's November Operations ..... 282
VIII AIR OPERATIONS AND ORGHIZATIOTAL CHANGES IN DECEMBER
Air Operations ..... 286
Tactical Air Force ..... 286
Strategic Air Force ..... 294
CAF Activities ..... 303
Summary of NAAF's Operations in December ..... 306
Organizational Changes ..... 308
GLOSSARY ..... 321
NOTES ..... 322
ANTES

1. Headquarters, NAAF, Operations Instruction No. 1, "BARRACUDA" ..... 373
2. Northwest African Air Forces, Air Unit Charts ..... 379
3. Allied Force Headquarters, "Mission to Rome" ..... 381
4. Statistics on AAF and RAF Operations in the IrIS,Feb-Dec 1943387
INDEX ..... 388



EAPS ADD CHARTS

## Following

Plans for the Invasion of Italy ..... 25
Northwost African Air Forces ..... 42
Southern Italy: Principal kail Lines ..... 77
The Invasion of Italy, 9 Septeaber 2943 ..... 93
Southern Italy: Principal Poads and Airfields ..... 98
Fifth smy Hichtide, 12 September 1943 ..... 130
Troop Garrier Operations: AValdiChe, 12/13, 14/15 September 1943 ..... 137
Advance of the Allied Krates in Italy, 3 Septenber-6́ Cotober 1943 ..... 155
Advance of Fifth Army, 7 Cotoker-15 November 1943 ..... 182
Central Italy: Frincipel Roads and inirfields ..... 193
Central Italy: Frincipal Rajl Lines ..... 265
Lediterranean illied Sir Forces ..... 315



Air Fhase of the Italinn Campaign to 1 January 1944


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Chapter I

#  Hovarbie 1942-AJGUSP 1943 

## Burfic Plang for Port-minisian Operations

On the surface it would seem logical to assume that from the day the Allies completed their successful invasion of North Africa (1l November 1942) an assault on the mainland of Italy was a foregone conclusion. Actually such was not the case, for there were other areas than Italy along the shores of the Kediterranean which long offered attractive possibilities as sites for Allied operations, and there were always strong differences of opinion between the Americans and the Britigh as to the nature and extent of post-runisian operations. fot until after the end of the Fundsian campaign in May 1943 was it definitely decided that an assault on the Italian mainiand was preferred to operations against Sardinia, or the Ealkane, or southern France, or in tne Aegean; and even then a segrent of Allied thought held to the thesis that any future attack on Italy shoula be limited to an air offensive in order that the full weight of Allied manpower and resources might be thrown against the Axis in a crossmchannel invasion of northarm Tropa, an operation against the mainland of Italy was not even included in the long-range planning of the Allied leaders in the days when they wero setting up the invasion of Forth Africe (Operation MOHOE) and the Sicilian carapaign (Operation HUSEY). Al though the decision to Invade Italy did not materialize until the sumar of 1943 , there were nevertheless early gians for httang Italy


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from the air for the purpose of reducing the Aris war potential and in the hope that heavy and sustained boabing filgt result in the collapse of Germany's junior partner; and Alliez bombers based in liorth Africa began pounding Italy gine months before Allied ground tropps set foot on the penincula.*

On 11 Foverber 1943-nthe date on which French Borocco and Algeria capitulated to the Allies and therefore the first date on which it was possible to project definite plans which looked beyond the littoral of Morthwest Africa-othe Assistant Chief of Air Staff, Plans at Headquarters, Army Air Fofces requested the Assistant Chief of Air Staff, Intelligence for information which was needed in the preperation of a strategic plan for an air offensive against Italy, to be conducted fron Horth African oases. Specificalif, data was desired on the strength, composition, and di sposition of hxis eir forces and antiaircrait artillery in Italy, Corsice, Sardinia, and Sicily, and on the targets which were tital to a continuation of Italy's war effort. Further, Intelliryence was akked to submit an anpraisal of the probable effect on the over-all Axig war effort of a major air offensite ageinst Italy and her poscessions. ${ }^{2}$ on 19 Lovember, Intelifence provided Plang with the destred data. ${ }^{2}$

At the some time the British Frime IInister was presenting to Fresident Roosevalt his conception of future strategy in the Meaitexranean. In a cable dated 18 Wovember 1942 Ki . Churchill declared that after Morth Africa had been conquered "the paranount tasis" before the Allies would

[^0]

be that of Husing the bases on the African shore to stritke at the underbelly of the Agis in effective atrength and in the shortest time." The statement might be considered as implying an invasion and a subsequont operation by land on the Italian mainlend; but at the moment Mr. Churchili. appeared to be concerned only with an sir offensive, ior he followed the statement by a discussion of af strategy againgt Italy. The Largest installations for American bombers, said the Frime sinnister, ought to be set up on the tip of Tunisia so that long-range bombers which would be sent to North Africa by the United Statea, together with American bombers already based in the 䧺dile East, could opernte most effectively against Itelian targets; at the same time the bombing welght of the British night attack should be brought to bear whenever the weather was more favorable over Italian targets than over German. Hall the induatrial centers should be attacked in an intense fashion, every effort being made to render then uninhabitable and to terrorize and paralize [sic] the population. " After Tunisia was in Allied hanis, the Prime Rinister continued, we should seize oither Sardinia or Sicily. Bron efther of the two Islande attacks on liaples, Fome, and the Italian fleet "wowl raise the war against Italy to an intense degree. ${ }^{3}$

At the time :Ir. Churchill sent his appraisal of future operations In the Mediterranean to Mr. Roosevelt ho had in his possession a cable from the President which expressed the hoge "that you with your Chiefs of Staff in Iondon and I with the Combined Staff here" might survey "possibilities" which included a "forvard movement directed against Sardinia, Sicily, Italy, Greece and other Balkan areas and . . the


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posstitility of obtaining Tumikh support for an attack through the Mlack Sea against Germany's flank. $\|^{4}$ It is evident from these two messages that the Allied leaders, as early as November 1942, were envisioning future operations against the mainland of Italy; but it is also evident that they had evolrod no specific plen for such oporations.

The Prime Minister's comunication to the President was promptly referred by the U. S. Joint Chiefs of staff (JOS) to the Combined SubCommittee of the Combined Staff Planners (CPS) with instructions to prepare a roply. ${ }^{5}$ This committee submitted its report on 27 Novemberf 194 The paper consisted of a majority report and a minority report. The former snnounced the following conclusions relative to future strategy in the Lediterranean: after Tunisia had been taken either Stctly or Sardinia should be seized-either operation being preferred to activity in the Jairans or against Spain-and of the two Lslands Sicily was considered the more valuable prize. ${ }^{7}$ After the conquest of Sicily the Allies conld "extend the offensive by naval and air action, and linited land operations, to the mainland of Itely," or raid southern France, or capture Crete and the Dodecanese.

The minority report, presented by the USAAS nember, Col. R. P. Willians, agreod with the majority report that current offensive action should be continued until the Axis was expelled from North Africa and lines of commanication in the lediterranean secured. Ixploitation, however, should consist essentially of an air offenvive. The North African theater shoula be organized and developod into a theater for air operations, auxiliary to and intesral with the UX. The two theaters should be


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constiered as one insofar as air operations were concerned and should be under a single commender who could exploit the flexibility of the air arm in a well-congidered strategle air plan. The crux of the minority contention was that the best way to ald the U. S. S.R. and the soundest way to prepare for a cross-Channel invasion was by ganashing the capacity of Germany to wage war-mand this could be done only by an air offensive.

Both the majority and the minority reports were considered by the Combined Staff Planners at their meeting on 30 November, but the American and Sritish menbers were unable to agree concerning future strategy in the Mediterranean and postponea action on the paper. ${ }^{8}$ lieeting again on 3 Deceuber they still were uneble to come to a deofsion and decided to continue discussion of the paper the following day. ${ }^{9}$

When the OPS met on the 4th it had before it four informal menorandums prepared respectively by the $3 x \pm t i$ members, the U. S. Array members, the USAGF members, and the U. S. Favy air member. 10 the Navy paper is of no moment for the present discusaion. The other three papers present such important but divergent views that they serve to show clearly why a decision on post-rOFCH action hed to wait for a Roosevalt-Cnurchill conference, Briefly, the three views were:

1. British members: The main weight of Allied effort in the Lediterranean should "be against Italy," and as an initial step tan operation" against elther Sardinia or sicily should be undertaken at the earliest possible date.
2. U. S. Army members: If an invasion of southern Italy should be decided upon, then Sicily should be taken after Tunis; otherwise, "the
time factor and the arailebility of troops" would determine whethex slicily or Sardinia should be invaded; but no further move ought to be made until lines of commifeation through Gibraltar had been made aecure.
3. USAAF memor: "The best way to win the warl was by lan all-out air affensive" from the TK against Germany's capacity to wage war, followea "by a land invasion against the continent across the 3nglish Channel. " In the lediterranean, operations should conaist of air attacks against Italian objectives and Axis shipping, with North Africa being developed as fan air operating area integral with the United Yingdor."

In their meeting on the 4th the OPS still were unable to come to an agreement and referred the matter back to the Combined sub-Committee. 11 On 8 December the subcomaltee announced that it was unable to raach a decision and stated thet it held the unanimous opinfon that before a policy for future action in the Mediterranean could be recomended the global strategic concopt of the United Nations would heve to be reviewed and made available to the subcomattee. ${ }^{12}$ The OPS, after duly considering the report, informed the Combined Chiefs of Staff (cCS) that, owing primarily to Mlack of an accepted global strategy for the conduct of the war, "they were unale to reach an agreenent on operations subsequent to MORGH. ${ }^{13}$ In their 54th meeting, 31 December 1942, the COS took note of this paper. ${ }^{14}$ And there the matter of future atrategy in the Mediterranean stood when the President and the Prime Mintster met at Casablanca in mid-January 1943.


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The Casablanca Conference, Jannary 1943
The Casablanca Conference, insofar as futurc operations in the Mediterranean were concorned, decided that Sicily was to be invaded (Operation HUSKY) during the period of the favorable July moon and that the bomotng offensive-mas soon as North Africa had been cleared of Axis troops-mould be directed primarlly toward inflicting the greatest possiple lossea on Axis air and naval forces in preparation for HUSiv, toward direct gupport of that operation, and toward the destruction of the ofl refineries at Ploesti, Kumania. ${ }^{15}$ Hothing was said. about an invesion of the mainland of Italy, and for this omission there appear to have been four fundamental reasons: first, it was hoped that the conquest of Sicily plus heavy boabing of the Italian mainland would result in the collapse of Italy; second, it scemed best to plan one step at a time in the Hediterranean so that the Alies might take advantage of future changes and developmonts, political as well es military, few of which corald be foreseen or forecast at long range; third, any operation againgt Italy beyond the seizure of Sicily would heve to be planned with reference to a projected invasion across the Znglish Ginmel; fourth, the U. S. Chfefs of Staff and the British Chiefs differed sharply as to the Imortance of future operations in the Mediterranean, the British consistentiy being more interested in that region tnan were the Americams.

In spite of the fact that no mpecific plans for operations in the Wediterranean beyond HUSiY were laid down at Gasablanca, there was congiderable discussion of what steps should be taken in order to hurt Itaiy and if possible to knock her out of the war. The view of the British


Chiefs of Staff was that the Allies should expand the bomber offensive against the Axis to the maximum, that operations in the Nediterrenean offered the best chance of compelling Gernany to disperse her resources, and that "with this end in view we should take as our primary objective the knocking out of Italy." Sir Alan Brooke, British Ohief of Staff, argued strongly that an effort should be made to force the collapse of Italy by bonbing attecks from UK, forth Africa, and Sicily, but he did not believe that the Allies could undertalce any other offensive operations acainst Italy in 1943 unless she should collapse completely as a result of HUSKY. IG The Americans, on the other hand, made it clear that they were more interected in the security of shipoing in the liediterranean and in the effect of Allied operations on Germeny's strength on the Fastern Front than in eliminatine Italy from the war; and General larshall stated that the U. S. Chlers of Staff were concerned as to whether future operations in the Kediterrenean would bring edvantaces commensurate with the xisks involved. ${ }^{17}$

The Britigh, probably as a result of the American position and being anxious to continue operations in the Nediterranean, suggested that if HUSEY were deleyed the Alites should invade Sardinia (Operation BrINSMOMA). They belleved, said Air :'arshal Fortal, that the taking of that island nifgit rosult in the collonse of Italy, an event which would have "the most favorable affect on the Fussian Front." General Marshall not only did not agree with the Eritish that it was important to knock Italy out of the war but was definitely opposed to BRIMGHONE. ${ }^{18}$ In taking thig position Iarshall was expreselng the agreed opinion of the U. S. Chiefs

of Staff, who had discussed at five meetings amote themselves and two with the Prestcent the matter of an invasion of Sardinia and had decided that they were atrongly opposed to the idea, inasmuch as the only advantage to be gained from teking the lsland would come from ita value as a base for Domber operations against Italy and southern France. ${ }^{19}$

Druring the course of these discussions the Britich began to shift their interest from an operation againat Sardinia to the already planned invasion of sicily; they found, however, that the Americans not oniv were opposed to BRIMSTOME but also were diannclined toward HUSKY wnless it could be launched not later then the first part of Jouy. The Americans vere interested in taking sicily but only because it would give a greater degree of protection to shipping in the Hediterranean, might eliminate Itely from the war, and would afford a good bese for borbing the Itallan mainland. 20

At the thirid meeting at Gasablance between the Fresident and the Prime $/\left\{\begin{array}{l}\text { nister, on } \\ 23 \\ \text { January, the possibility of direct action against }\end{array}\right.$ the mainland was discussed. Mr. Roosevelt believed that HUSKI megt further brear the morale of the Italian people to the point where they would rewolt; therefore, the allies must be ready to act, perhaps in Eardinia or even in Italy itself. General Karshall announced that after the close of the Lunisian camaien a growing air bombardment of Italy would be launched. the Prime Minigter suggested that it would be adMisable to maintain a threat of bombardment agoinst Fome as an additional neans of cracking Italian norale, but felt that the bombardment should not be carried out without further consultation betreen himself and Mr.


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Roosevelt, with which opirion the President agreed.
When the Oasablance Conference had completed its discussions and made fits decisions, it still had not decided to undertake enyting more thon air operations acainst Itely. But it believed that tne future operations which it had planned for the Hediterranean (1.e., HUSKY) might "result in the collapse of Italy. 121

Theater Elanning, Uarch-Nax 1043
Following the Casablance Conference no further steps toward direct action againgt the mainlend of Italy were takon by the Ailied top-level plenners until the fridmy Conference in Way 1943; and not until fipria did Allied Fiorce Headquarters (ABH() in Algiers pas mach attention to prepering new plans. But the Allied aix forces kept Italy constantly aware Of the fact that it had piclred the wrong side in Yorld War II.

As early as Deceaber the air forces based in the Midale East had launched̃ a small-scale afr offensive against southern Italy as part of an over-all plan to curtail the flow of supplies to Romel's hard-preseed army in eantern libya. This humble beginning of an air war against the Italian mainland continued as a minor operation until April 1943, when it was alyemented by attacks by plenes of the Northwest Africen Air Forces operating from bases in Funisie and Algeris; thereafter, the attacks grew in size and fury until they paved the way for the succesaful Allied invasion of Italy in Senteriber 1943.

The firgt attack against the Italian mainland by U. S. aircraft stationed in the Lediterranean came on 4 December 1942 when $20 \mathrm{~B}-24$ 's

of the 98th and 376th Bomb Groups, Minth Air Forcs (iaidale Zast) int Neples harbor. One oattleship received a direct hit and several near misses and there were near misses on a cruiser and two small vessels. 22 During the remainder of Decenber attacks by IIberators of the Ninth were fairly frequent but in January bad weather limited misaions against the mainlend to two, the more important one being a suell affair of 11 Jenuary when eight aircraft dropped 10 tons of bombs on barbor ingtallations at Faples. 23 In February the Minth carried out 48 sorties against that city, dropping a total of 116 tons of bombs on port installations and shipoing. In Narch, its B-24's flew 98 effective sorties egainst Naples, and Iiberators of 178 Squadron (fif) carried out 11. Considerable damage to harbor installations resultad from these attacks.

In the three months from Jenuary through March, Kosquitoes, Beauifighters, and Spitfires of the PAr, operating from Malta, bombed and strafed traing in the Naples-Teranto-Eeggio triangle, destroying or severely demaging 118 locomotives, Buring the same period these planes, using camon fire and 250 -pound bombs, attacked railroads, sidings, stations, and bridges in southeastern Ftaly and station buildings, goods yards, and warehouses in southern Italy. Results went beyond mere de struction: traffic was dislocated, antiaircraft defenses were forced to spread out, and the Axis began to be pinched for sufficient locomotives, ${ }^{24}$

Droing the first three months of 19A3, planes of the Twelfth Air Force had concontrated thotr offorts on Thuisien targets, and on the few

[^1]occasions when they had gone beyond Forth Africe they had dropped their combs on ports and airdromes in Sicily and Sardinia, But by April the ground situation in Tunisia was so improved that the Iwelfth's heever nombers were able to raise their sights to the Italian mainland. 25 The first attack was on 4 April against Capodichino afrdrome (A/D), located on the outskirts of Navles, with 27 3-17's hitting buildings and the landing and dispersal areas. 26 Naples itself wels visited during April by 83 sorties of Minth Air Force B-34's, 16 sorties of Liberators from 178 Squadron, and 64 sorites of B-17's from the Wwelfth. ${ }^{27}$ Shipping, harbor installations, and marshalling garas (M/F's) wero hit. Other major attack during the month were against Grosseto $A / D$ (the center of an inportant system oi airfields between Rome and Pisa), attacked by 43 B-17's, and Bari A/D, hit by 62 B-24's. In addition, two attacts delivered by the Pwelfth sir Force sank the Italian heavy cruiser Trieste and severely damaged the heavy cruiser Gomizia in La ladalena harbor, Sardinie, thereby depriving the Italian liavy of two of its three heavy cruisers. linor attacks during April were delivered by heavy bombers from the Liddle Bast on Bari, San Giovanni, Orotone, Cosenza, and Pizzo, 2.11 in southern Italy. ${ }^{28}$

Also during Narch and April-as in January and Tebruary--Halta-based liosquitoes, Beauilehters, and Spitfires bombed and atrafod locomotives, railway stations, warehouses, and other installations on the mainland beLow a line, Maoles-3ari. ${ }^{29}$

All of the attacks delivered against the mainland of Italy by the air forces during the period from December 1942 through April 1943 were


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airectly in support of the Iunisian campagn. Hevertneless, they were the opening guns of an invasion of Italy, and the denage which they inflicted upon comunications, installations, and morale would contrioute neavily to the success of that inrasion.

Heanwaile, durlng March and April, with the Tumisian campaign going well and plans ior the invasion of Sicily rapicly taking shepe, it was natural that men in the Kediterranean theater should look peyond Sicily and $u$ egin to coneider ways and menns of forcing Italy to capitulate or of taking full and quick adrantege of a possinle post-hUSKY collapse of that nation. It snould be noted tnat sucu plans as were formulated emanated from Allied Force Headowarters in Algiers and not from Wasuington and Jondon where future operations in the Hediterranean were being considered but not formulated. It should also be noted that plenning at Afric had to tike into consideration--in fact, had to be based upon--two very different possibilities: Pirst, that Italy would collanse at the end of the funisian compaisn or during or imnediately after HUSEX; second, that Italy would not collapge but would continue to oppose the Allies. Throughout the syring and swmer of 1943 every plan for future action against Italy nad to taice into consideration those two diametrically opposite possi-oflitiesm-which in large neasure explains why approximately a dozen different schemes for invading the peninsula were drefted and considered. There are tines when it is extronely difficult to evaluate national morale; that was particularly true in the case of Italy in the spring and sumber of 1943. Yot, the state of morale in Italy would larsely deteriaine the type and degree of opposition which the Allies mitut expect to encounter


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in the evont that they invaded the mainland and, therefore, sould determine the type of operation which would be launched, the size and locale of the invasion, and the forces necessary to exploit indtial successes.

Marly in Maroh the Gu section of AFHQ prepared a memoxandum outlining the courge of action for the Allied forces in the Nediterranean in the event of an Etalien collense after the conclusion of the Iuni sian campaign or after HUSKY had beon launched. The plannexs believed that Gernany would not then atternt to defend Italy out would use all available forces in defense of the Balcans, and on this thesis the G-3 section laid out general plems for using Italy, Sorsica, Sardinia, and Sicily as bases for the lamening of an Invasion ageinst southorn Frence or for offensive action into the Balkans. In a follownom menoradua a more datailed plan of action was proposed: first, to establish air bases in sicily; second, as quiccly as possible to set up air basos in the Heel of Italy, using one division of infantry and one of airborne troops to seize and hold the area in the first stoge of Allied occupstion; third, to assault the Kotor-Dubrovnite sector on the Dalmatian coast. ${ }^{30}$

Likewise in larch AFHQ made plans for a course of action in the event that Italy did not collapse after the end of the Tunisian carpaign. The Pirgt matter to be considered was whot action to take if HUSKY for any reason should becone imracticable. AFrid felt that there wore four alternative courses which were possible. One was to establish a bridgehead on the eastern shores of the Adriatic; a second was to aeize Crate and the Dodecanese. Net ther operation was considered as worth while. A


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thira possibility was an assault on the foe and Heel of Italy, but such an operation was held unlikely to succeed because of Axis air opposition and because the assault would be open to attack from three sides--from Italy, Sicily, and the Balzans. The fourth course of action would be to occupy Sardinia and Corsica, and it was concluded that this was the beat alternstive to HUSiZx. Rive divisions would be required gor the fob; these, and adequate air forces, were already available as a part of the HUSKY force. ${ }^{31}$

Toward the end of April AHRG again promulgated a plan of action, this time on the assumption that HUSiry would be carried through, After HUSKY, said the memorandu, if it were decided to maintain the offensive against Italy the first step should be the canture of Sardinis and Corsica. The next step would be to use the two islands and Sicily as bases from waich to launch a heqvy bonbing offengive againgt Italy, fnis mignt force Italy out of the war. If it did not, a finel step would have to be undertaken: a direct assault against the mainland. The memorandum suggested three possible areas of assault. The first callea for a landing at Genoa and/or Jeghorn folloved by an advance into the Lombardy Plain; the second for a landing in the Rome area; the third for an assault in the Heel. The first was obviously the most migizy out, at the same tine, offered the quicisest way of knocicing Italy out of the war and of hurting Germang. The second was less risizy bat a slover way to force the capitulation of Italy. The thira was by far the safest course of action, but it was also the least calculated to produce foportent results. It

aopeared to the planners that the final decision as to the course to be taken would have to be determined by the state of Italian morale, the extent of German capabilities, and the forces available to the Allies; also that in default of satisfactory evidence of a distinct lowering of Italian morale at the time of final decision, the three plans should be concldered in the following priority: assault on the Heel, landing in the Rome area, invasion via the Lombardy Flain. ${ }^{32}$

On 7 May AFHi produced its final planning memorandum prior to the THEDEMI Conference. This memorandun, more ambitious than its predecessors, considered futwre strategy over the entire Mediterranean. Its first plan of action was predicated uoon the assumption that Italy would not collapse after ZUSKIF. Three possible courses of action would then be onen. The first would be against southern France. This, the planners felt, would not be feasible because of insufficient forces, unless it were undertaken simultaneously with a oross-Chennel invasion (Operation FOUNDUP); moreover, it wonid first bo necessary to seize Corsicn and Sardinia. The second course of action would be to attack the Balcans. This was not favorably considered because it could be undertaken only after the Aegean and Greece had been cleared-walso because it would be both dangerous and slow without adequate air support, which wovid be possible only from air basos on the loe and Heel of Italy. Whe third course would be to conduct a campaign against the mainland of Italy, This would have certain advantages: it would provide air beses from which soluthern Germany, Gzechoslovaicia, the Rumanian oilfieldssand the Danubian sunply routes could be bombed; tit would force the Gerrans to increase

their commitments in the Belkans; it would deny to the Axis the use of valuable bases for submarines and surface forces; and it might influence Iuriey to enter the war against Germany. On the other hand there would be disadvanteges: the Allies might mun into a long, hard campaign; control of occupied territory would require a large garrison force; there might not be onough troops available to hold a heavy German counterm offensive; and the Allies might easily oecolae involved in heavy shipping and economic comitments to Italy. 33

The planners found it not much simpler to suggest a definite courge of action to bo followed pursuant to an Italian collapse after HUSKY. That Sardinia and Corsioa should be occuoied Immediately was an obvious conclusion. An invasion of southern France was held to be unlikely, however, until after 1943. As to whether the Balkans shovid be invaded, and as to whether the mainland of Italy should be oceupied and if so what portions of it would have to be held.-.those knotty problens the planners sidesterped by stating that they were matters wich would have to be decided by the combined Chiefs of Staff. 34

The matiprit and alsiere conferences, Hax 1943
On 12 Hay 1943 the President and the Prime Minister opened the TRIDEFII Conference at inashington. The Munisian carroagn was ended; plans for the Invasion of Sicily, decided unon at Casablanca, already vere belne worked out in minute detail at $A B \mathcal{H}_{\mathrm{g}}$; the time had come for If. Eoosevelt and isr. Churchill and the Combined Chiefs of Stafi to decide unon poot-Sicilian operations in the Mediterranean.


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It was immediately evident that the President and the Prime Minister held different oninions as to the course to be followed after EUSEY. At their first meeting, 12 May , the Prine Minister said that the initial objective of the Allies lay in the Mediterranean: to force Italy out of the war by whatever means might be best. There were great advantages, he felt, to be dexived from the elimination of Italy. In the first place, Murkey might well let the Aliles use basos from which Ploesti and the Aegean could be bombed; seconaly, Germany would either have to give wo the Ealiana or withdras large forces from the Fussian front to defend them; thirdly, the menace of the Itallan fleet would be removed; and, finally, German morale would be hard hit. 35

The President, however, feared that to comit large armies to an italian campaign might result in neavy attrition of Allied forces and be a drain on resources, eqpecially if Italy had to be occupied and supplied. To this argoment lir. Churchill repiled that it would not be necessary to occupy all of Italy--it would be enough fust to hold such ports and air bases as would be needed for operations against the Balkans and southern Burope. At this point the matter was turned over to the Combined chiefs of Staff for stuay and recomendations. ${ }^{36}$

The U. S. and the British Ohiefs of Staff held views on post-hUSry strategy which wero quite as divergent as those of the President and Prine Minister. In general, the Anericans wanted to conduct Imited offengive operations, principally air attacks, so as not to projudice in any degree a cross-Ghannel operation from the WX, even going so far as to say that they would forbid the employment of American ground and naval
forces east of Sicily. The British wanted strong action against Italy, including ampnioious operations egainst the Italian mainland or islands. ${ }^{37}$ The differences between the vievs of the two staffe ${ }^{38}$ are worthy of deteiled examination.

The American view was that the main operation muat consist of a Vigorous atr offenstive against Gernany, to be followed by a full-scele Invasion from UK in the spring of 1944. In the Kediterranean area HUSKY was to be accomplished and thereafter only limited offensive operations would be conducted. These would be designed to destroy the Italian war potential by air attacks, to support the U. 3. S. Aris troops and materiel, to force the dispersion of enemy ground and air strength so as to aid the cross-Channel invasion, and to maindain the security of the present Allied positions and commonications in the Fediterranean. 39
 was the elimination of Italy from the war, the achievement of which would contrioute materially to the defeat of Germany. The breaking of the Axis would have most serious effects on the psyonological and material strengta of Gemmany. The rogults would be: first, the withdrawal oi some 35 Italian divisions fron Greece, Yugoslavia, and southern France, winich would force Geriany to let go of one or more of those countries (with all that this implied in loss of raw materials and prestige and in the extension of the range of Allied bombers) or to suostitute Gernan for Italian troops at suibstantial cost to the Eussian front; second, the elimination of the Italian Mavt would onaole the Allies to transfer


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many navel units to meqpatile on Indian oceans; third, Sardinia and Corsica would serve as a bese for mounting an operation against southern Erence in the spring of 1944 as en aid to a crose-Channel invesion; finally, the collapse of Itely might bring Turkey in on the side of the Allies.

It was possible, the Pritish continued, that Italy night be eliminated by air action alone but to count on such a develoment would be most unvisc. Fhey considered it essential, therefore, to lifollow up a successfui HUSKY by amphibious operations against either the Italian islends or the mainland, backed wo, if poscible, by operetions in other parts of the "editerranean." The Britich believed that only in that way would the Allies rear the full benefit of victories in Africa and Italy and only thus could they employ the powerful and experienced American and British forces and the assault craft gathered in the Reatterrapean.

The Eritish admitted thet such operationo would delay the build-up (Operation BOLSO) for e crosb-Channel investion in 1943 but exgued that the deley would be outwelghea by the fact that the elimination of Italy, togethor with other successful lieditcricnean operations, would ease the task confronting the Allied armies when they lended in furope from the UK. The British concluded their arguments by stating that they did not believe "that there is any mothod of elving effectual help to the Finssian front throughout this year other than a continuance of Mediterrancan operations and the intengification of our bomber offensive. " 40

The position of the U. S. Chiefs of Staff was bolstered on 14 May by the receipt of a paper prepared by Generel 解senhower and his comnander


## UUTiTIDLMrme

of Allied naval forces in the Kediterranean, the Britigh Admiral Sir Andrew Browne Cuningham. This document, entitied roparations after Eusky," set forth two possible courses of action, The first called for an atteck against the Italian mainland with the object of advancing on Naples. The attack would be directed against one or more of three areas; Feggio-San Giovanif, on the Toe opposite Kessina (Operation Burniess); Grotone, on the Ball and Instep (Operation GOBLIM); and the Heel (Operation MUSamin). The paper noted that guch an attack on the mainland would reguire large forces; that once the operation was begon the Allies would be comitted and might well becone involved in a major cempalen of unforseeable duration end requirements. The second possible course of action would be to occupy Sarejala (Operation BRItSTOLI) and Coraica (Operation FIREBRAID). This course, it was observed, could be carried out with linited forces; noreover, after the operstion was completed the Allifee woule still have liberty of ection for further strikes. ${ }^{41}$

It appeared to General Zisenhower and Admiral Cunningham that the decidirg factor between these two courses of action would be the atate of Italian morale aiter HUSKY. They concluded therefore that at the present time it was better for the Allies not to commit themselves to operations against the mainland because it was not yet possible to assess the morale of the Itelians; they further concluded that it presently appeared the next operation after fitisty should be BRINSTONTA and GIFRBPAND.

Finally, the paper noted that Air liarshal Tedder, C-in-C of the Allied air forces in the klediterranean, was in digagreement with the Bisenhower-Gunningham conciusions on the ground that the value of Sardinia
would be almost altogether a defonsive one whereas Italy would be an exceedingly valuable prize becruse it would afford bases for long-range nombing. ${ }^{42}$

On the same day, 14 liay, the Britigh Ghiefs of Staff presented a strong menorandum to the CCS in which thoy insisted that the attack on Italy must be continued relentlessly until her eliminetion from the war was insured. If Italy collapsed, the menorendum declared, cermany must divert large forces from the Russisn front to the Balkans, thus paving the way for a orose-Channel invasion which, with bonbings from the UK and Italy, would cause Germany to collapse. In the opinion of the Britieh Chiefs there were two alternetives after HUSiEY: (1) an asseult on the Toe and Heel; (2) the capture of Sardinia. Their conclusion was that preparations should be made at once for the establishtent of a bridgehead on the Toe during or imnediately after HUSKY, with General Bisenhower plenning an altermate operation egainst Sardinia. The final dacision as to which operation would be mounted was to be made by the COS at the conclusion of GUSEY. The memorandum concluded by stating that if Italy should collapse after HUSEY the Allies should inmediately occupy southem Italy, esteblish forces in central Italy to prevent German infiltration, and occupy Corsica and Sardinie. 43

On the I7th the British Joint Staff Planners, after consulting with the U. S. JPS, urged thet Italy be eliminated by air action supplemented either by landinge on the Moe, Heel, and Instep or by a landing on the Too followed by landings on Sardinia and Corsica. All of these operations were to take place between mid-August and mia-October. ${ }^{44}$ The U. S. JFS

promptiy cotntered by insistine that a cross-Channel invasion was the ell-important operation. The Arericans arcued that operations on the Italion mainland, no matter how successful, would produce few adpantages out mifint prejuaice the invasion by diverting men, planes, shipping, etc. from Ur: accordingly, no more advances in the liediterranean should be undertaken after HUSKY. The Americans even went so far as to hold that the activities of the air forces should be linited to protecting shipping and to long-range bombing of Italy, feeling that the latter alone might knock Italy out of the war. ${ }^{45}$

The OOS hed reached an impasse. Dut they quickly solved the difficulty by shifting onto the showlers of General \#fenhower at least a part of the burdin of deciding what atrategy ghould be followed after nUSKY. It was agreed (20 Mey) that the Commender-in-Crief of the North African Theater should be instructed to mount such operations in exploitation of HUSKY as would best be caiculated to eliminate Italy from the war and to contain the marimum number of German forces. Each operation was to be aubject to approval by the CCS. The Allied C-in-0 was to have at his disposel all the forces presently in the Kediterranean with the exception of four I. S. and three Britich divisions which were to be held in readiness from 1 November onward for withdrawal to Uf; the additional air forees which were boing provided on a tomporary basis for HUSKY were also not to be considered as available for post-TIUSKY operations. ${ }^{46}$

At the 5th meeting of the President and Prine Minister, held on 24 May, the 3ritish withdrew the support which they had given previously


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to Operation BRINSTOMI, Kr. Churchill saying that he was very much opposed to any idea of an operation to capture Sarainia as a sequel to hUSKY. He felt that the conquegt of Sardinia would have no influence on the securing of the great prize which would de open to the Allies if they could take the Heel and Foe of Italy and make contact with the Balkan insurgents. Sir Alan Brooke and General Marshall then explained why the Cos had decided to leave to General Eisenhower the respongibility for formulating basic plans for future operations in the Hediterranean: General Hisenhower would not be able to tell which operation he could undertake untid the gituation had declared itself. The idea, then, was to plan several operations and to decide, at a meeting to be hold after HUSKY had been launcined, which of them to carry out. 47

The following day, 25 May, at the 6 m meeting between the two Allied Feaders, it was deoiced that the Prime Binister and General Karshall shortiy would proceed to xrorth Africa where they would confer witn General 验senhower relative to future operations, at which tine (it was believed) plans more definite then those formulated at Trilmy could be nade. ${ }^{48}$ At the same time the cos, havinc assessed the available means at the disposal of the United Mations and having evaluated their ability to carry out projected or potential operations during 1943 and 1944, announced that with the forces avallable (ercept for an additional 108 trangport aircraft which would se needed for BAIMSIONE) one of two sets of operations designed to resuit in the collanse of Italy could be undertaken: (1) an alr offensive against Italy to be followed by assaults

not to teke place simolteneously; (2) an air offensive against Itaiy to be followed by an assault againgt the Toe and invastons of Sardinia and


The final report on the resulta of the TRIDMT Conference, as prepared oy the Cus and approved by the Presient and the Prime linister. stated that General 势senhower was to be instructed to mount such postLUSKY operations as he felt would be best calculated to knock Italy out of the wer and at the same tine oin down the largest number of German forces anc that a final decision as to the exact operation or operations to be undertaken would be made by the cos. 50

Then the TRIDiniv Oonference came to an end the Prime Minister and General larshell wasted no time in getting to lorth Africa for their projected discusaions with General Bisenhower. On 29 lay the Algiers Conference opened with Xr, Churchill, Genorals Marahall and Eisennower, Sir Alan Brooke, General Alexander, fir larsicel Tedaer, and other hignranking officials in attendance. When the conference ended on 3 June surprisingly little hed been added to the pro and con arguments which had been presented at TRIDMry and no chenge had been mede in the agreements arrived at in Vashington, The British still favored strongly an invasion of sodhan= Ibaly, jhe Prime Minister going as far as to state that he was willing to nove addtaionel troons, shipying, supplies, etc. into the Heditorranean, even at the expense of other areas, in order to strike a hard and direct blow at Italy. The mertcans, on the other hand, declared that they were not so much opposed to the Ldes of an attack on Italy as they were conceried over the requirements for troons, shimping, and

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materiel necesary to cirnury the operation, and over the degree of opposition which night have to be met. The Americang also argued that no final decision could be mede until the reault of HUSTY was lnown and the aituation on the fuasian front was clear, and insisted that the only logical approach to the problen was to set up two forces, ons to train for operations on the Italian matnlans and the other for operations against Sardinia and Dorsice. The conference finally agreed to leave the matter of posthuSFy operations in the hands of General EP senhower who was to report his plans as soon as possible after the launching of HUSkY, with any differences of opinion between the British and American leaders to be settled by the British and Americen governments. 51

## Final Strateric Plang, AfHE, June-Anagat 1943

AFHQ promptily went to worl. As a matter of fact its G-3 section had been busy on the problen of how best to knock Italy out of the war even while the Aleiers Conference whe in bession, A directive from the OOS stating that operetions after HUSKY would be destgned to eliminate Italy from the war and to contain the maximum Geman forces had arrited at A5Ne just as the conference assemblej, and on 31 May the G-3 section, in order to inplement the directive, advanced the following conclusiong:

1. If Italian resistance appeared to be weakening shortiy after the launching of HUSET, operations BUTPRESS and GO3F 3 , should be Inftiated, with a target date of 1 September for the former and 1 Octoder for the latter.
2. If Italian resistance and German reaction during HUSEY were
 the target date.
3. If BUTHaiss and GOBLES were undertaken and there then appeared to be a good progpect of Italian collanse, bUSKEn could be launched on a reduced scale.

Finalify, G-3 warnea that the underianing of any offensive operation after EUSKY would depend unon the release of a majortty of the landing craft employed in HUSKY. 52

A week later AFric produced an outline of a plan to assault Iteiy south of laples-Bari as an imeatate follow-up to the conquest of sicily. The plen called for three operations, to be conducted successively. The first would be against the port and airfield at keggio and the port of San Giovani. Dgsentially this was operation BUreniss. The second would be against the port and airfieids at Orotone (GOBLiAI). The third wovid be against an unnamed port and adjacent airfield in the Heel. Easically this was MUSKEI. Then, if all went wall in the Foe and Heel, a drive against ilaples would be posainle. 53

It is interesting to note that at this stage of the planning G-3 stated exphatically that "an assault on the west coast of the Itallan mainland would not be practicable. $1^{54}$

During the next three weels AGXQ produced no ner plens for operations Against Italy, the principal reason belne the need for further assessment of requirements and of Italian morale. The last two weets of June offered a good chance for evaluating Italian morale, the Allies heving taken the islands of Pantelleria and Irmpedusa on 11 and. 12 June respectively.



On 28 June the G-3 section pregented a new memorandim to the Chief of Staff, AFHh. The ever-present question, as the memorendum indicated, was how many landing craft and how much shipping would be available for post-HUSKY operations and when these would be avallable, At least 30 days would be required for overhauling landing craft before a new assault could be launched, The menorandum then considerea the matter of Italian norale. Joint Intolligence Center (JID) Algiers had reportea sone determ Loration and expected nore to result from HUSKY, but it did not anticipate that HUSKY would cause the Italian Army to collapse. "Io achieve this it will be necessary to carry out operations on the mainland, and collapse of resistance would be unlixely to come until our forces had made a rapld advance toward the Haples-Rome area. " This view, said the memorandum, seered to be shared by the Geraans inasmuch as they appeared to be reinforcing Italy.

In the light of the above conditions Gw3 recomended that BUMPRESS De carried out and followed if necessary by Goblim. Bneny resistance and terrain difficulties would make for slov progress to Naples, but C-3 felt that further amphibious operations againgt a major port auch as Naples or Taranto would not be practicable "owing to the difficulty of providing adequate air supportil and because of the shorbage of serviceable lending crait. If Italy should collanse after HUSKY and the German forces in southern Italy withdraw, then the jraples area and the Heel Ought to be occunied and squadrone of the Mectical Air Force be based there, and Fome should be taken and units of Strategic Air Force be loceted on the adjacent airifelds. 55


Quintivingmal
On the same day ( 28 June) General \#nenhower informed the CCS that if HUSKI were successfuz but Italian resistance did not collapse he would efther mount BUTTRBSS, to be followed by GOBLET if necessary, or he would carry out BRTYSROWE. Which of the two operations would be undertaken would depend on the state of Italian morale and the number and location of German forces. The Comander-in-Chief preferred BLITRES but felt that it would be unsound to mount it unless he had enough forces to occupy the Eeel and to emploit the operation as far north as raples. If Eurrabss should prove not to be feasible he would probably uncertahe BRIMSHORL in October. For either operation he considered that he would have enough aircraft except for-long-xange fighters. He ald not belleve that it would be possible to mount MUSKEI (as a third and final operation against the nainland, after BJMinass and GOBLIT) during 1943 because he did not have enough landing craft, adequate air cover would be doubtful, and by October the weather would not be sultable. 56

On 17 July the CUS accepted General Bisenhower's strategical concept and expressed their interest "in the possibilities of a direct amphiolous Landing operation against Neples in lieu of an attack on Sardinia. ${ }^{67}$ On 20 July General 3 senhower ordered all planning on $3 R I N S T O N$ to cease. 58 Henceforth, there would no longer be any question as to whether to attack Sardinia or invade Itely-Sardinia was out, and future planning would revolve entirely around the question of what area on the Italian mainland should be hit.

For approximately a month aiter 28 June AFFid did not produce any further plans For operations against Italy. There was no reason why it AOMEIDIUMITHL

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should--in fact, there wes no good way by which it could--go beyond the basic and flexible plens which had already been set forth until the Sicilian campalgr was well under way. Only then would it be possiole to determine the degree of German resistance which mignt be expected, to evaluate the state of Italian morale, to know definftely how many landing craft would be available, to assess the effect of bombing on defenses and comaunications on the mainland, and to put a reasonably accurate finger on all of the other factors which might mean the difference between success and failure.

The fact that no other plans were published by APHQ between 28 Jume and 24 July does not mean that there was nothing being done in the theater in preparation for post-HUSII operations. 59 On 29 June the $A-5$ staff section of Morthwest Africen Air Forees (MAAF), which had been made responsible for the air planning for operations against the Italian mainland, assemoled at the Ecole Mormale at Bouzarea, near Algiers, where in the next two months it drew up air plans for no less than five major amphibious operations. Planning was carried out in close cooperation with staffs ropresentIng the Army and the Navy, which thenselves were woringe out the datails of possible operations for the Fifth Army and for the several naval elements located in the Hediterranean. 60

On 24 July Abid published a planning paper, and it was at once evident thet in the period since 26 June the plannera Led zot been idle. For this document was not concerned with those two old stand-bys BIMreass and BEIMSHONE but with an entirely nou operation, an amphibious landing In the Maples area (fortis). Six weeks earlier the $0-3$ section had

announced that no assault on the vest cosst of Italy would be practicable but now, in the light of developments in Sicily, it had come to the conclusion thet such an operation offered attractive possibilities, eapecially in the area around the all-izportant ciby and port of laples with its nuserous and excellent adjacent airfields. The study did not elaborate upon the advantages and disudvantages of the several sectors north and south of Maples whero landings might be made but came imnediately to the conclusion that the Salemo plein was the best choice, espectally from the point of view of German defenses. HThe key factor in the operation would de air protection," said the paper; therefore the carly capture of an airfield would be essential, and Montecorvino airfield was auitably located.

The paper then presented an estimate of ground, nowel, and eir forces which would be available for the operation. The estimate wes based upon the assumption that this newly conceived operabion vould reglace wUskin and could ewhloy the forces which would heve been allotted to it. As far as the air forces were concerned it was estimated thet for the Salerno and BUPiFESS operations (the latter to precede the Salerno landing) there would be available 2,437 bombers and fighers plus 312 troop carrier plames, the figures being based on an ascumotion of 75 zer cent serviceability and a nomal flow of replecements. Aircraft of the Ninth Air Force and the Coastal Air Force, some of which could be expected to take pert in the operation, were not incluced in the estimate.

Finally, the paper recomended that the assault ahould employ four divisions, one of them armored, should be launched before 20 october, and should not take place et all unless the Allied forces which had previousiy

landed on the Toe hed reached the In Amendolaremastrovillari-Belvedere by about 5 October. ${ }^{61}$

On 24 July AFFQ published the final draft of a paper on the adventages of undertaking MUSKBr, and on the following day compared MUSEXT with possible operations ageinst the Iraples area. The paper ceme to the conClusion that operations to seize the llaples aree would be much more effective in explofting an edvance on the mainland of Italy than would gimilar operations designed to selze the Heel. 62 The advantages and dieadvantages of IOPHAT, as presented in the paper, merit examination inasmuch as the HOFHAT action, launched ageingt the Salemo area under the title of Avaiatiohe, was destined to become the principal operation against the Italian mainland.

The advanteges listed were as follows: it would give the fllies control of a strategically important area canable of maintaining any forces which could be placed in Italy in 1943 and would enable large Allied forces to be deployed reletively close to the primary Itailan objective, Rome; it would tend to draw off and thus contain large Aris forces and would force the enemy's troops in the Feel to withdraw or risk annihilation; it would lighten the pressure on Altied troops movine up through Calabrie (the Foe) by cutting through the German commuications on the west coast and would threaten the entire rear of Axis forces in Calabria; it would expedite exploitation of the Italion mainland to a greater degres than would the arae forces in occupation of the Heel; and it would give the Allies sufficient airfields to contirue operations ageingt the Italian mainland, Central Zurope, and the Ploestl araa.


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Disadvantages given wexe that the operstion could not be mounted. until the Calabrian campaign had reached tho Iine Amendolara-Belvedore and thet landinge could be opposed by German forces slightiy more rapldy around Salemo than in the Heel. 63 To these dinadventages should be added two which had been IIsted in the paper of the 2Ath that dealt with Operation MUSKEP. They were: first, that there was no major port in all the long coestline from San Giovanni to the Maples area; aecond, a direct assault against the Maples sector would have to be made outside of the effective range of gingle-engine fightora. 64

The CuS wasted no time in deciding that an assault againgt the salemo area was the right operation to use as a follow-up to Eurresess. On 26 July they cabled General sisenhower timat he should "plan forthwith AVALumcais to be mounted at the earliest possible datell using the resources already available for PRIGHuSS (a code word covering all post-HUSKY operations), "with the object of expediting the elimination of Italy from the war. ${ }^{\text {A }}$ The $00 S$ promised that carrler-borne aircraft to the extent of the planes of one heavy carrier and four escort carriers would be made grailable, thereby heloing materially to reduce what was provably the greatest potential hazard to the proposed operetion, inadequate fighter cover over the beaches. 65

On the same day General 验 senower met his own chiefs of gtafe in Fonis and ordered the preparation of two alternative plans for the invasion of Italy. The fingt was BUATRESS, as originally concolved. The second wes Avalamiche, employing the Fifth Army with one U. S. and one British corps, and conterplating the later use of French troops. General Zisenhower


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informed the CGS that political and milytary develoments in Italy would soon reveal which of the two plans showld be put into effect. ${ }^{66}$ He also noted that he was planning to rush one diviston of infentry and one of ciroorne troops into Maples on short notice (Cperation AD EOC AVALANCHE) if Italy should suddenly collapse or if there should develop a rapid German withdrawal from southern Italy, His main concern, he said, was to strike Italy as soon es posgiole after HUSKY. 67

A weok later General If senhower had decided that it would be wiser not to plen for AVALAlCHt nd BUMERESS as alternative operations, but that ${ }^{\text {a }}$ both operations ghould be leunched. "A lodgement must be made in the EUMPRLSS area before any bold stroke should be at wemped, such as AFALAFCHE, in Eaving made this decision he informed the COS that if BUyTRESS progressed satisfactorily he would gend the British 10 Corps in on the right flanis at AVALAHCED to drive toward a junction wh th the 펴ghth Army moving up from the Toe. But if BUMPRES should move slowly ATAFAHOHE would be materially delayed and he would employ the 10 Corps in direct support of Burymes 68 The oos agreed with these ideas. ${ }^{69}$

Fhile AFID had been busy with over-all plans for invagion of Itely's long and difficult coastline, HAAF had been working on air plans for each of the several assaults under consideration. On 4 August ${ }^{70}$ it published. plans for operation BUMrRUSS and its counterpart $\operatorname{AAYMO}$ currently concelved of as an arphiblous assault mounted from Horth Africa against the Toe of Italy with the object of capturing the ares Mcoteram Cittanova all inclusive, togetner with the port and airfield at vibo Valentia, and of exploitetion toward Catenzaro preparatory to dorinating
 the entire Toe, BAYMOilil was on assault againgt the Toe from Sicily, across the Strait of liescina. It was either to be launched at the same time as BUIIRESS or coordinated with it as to timing. IHAN noted thet there was, however, the possibility that BUMPRESS might be replaced by an operation farther north, in which case Baymiv probably would be laid on ag a holding and diversionary attack. If Buriniss and Baymohi were launched simultaneously, or Here coordinated as to timing, air action in preparation for and support of the two operations would constitute one task; but if BUMEESS should be replaced by on operation in the Naples area the aif forces would oe fully used in the northern attack, and apart from the nextralization of the enery's airfields only limited air support would be available for SAYFONT. ${ }^{71}$

On 31 July Air Marshal Tedder had designated General Spaatz as regponsible for plenning and preparing the air phese of AVALAFGUE and for its execution. On 4 August the A-5 section of FAAT began working on an air plan for AVLiAFiona ${ }^{72}$ and on 8 August published its first findings. From the contents of the document it is evident that AVALAliche and sUYMRESS had come to be considered as alternativo operotions, which meant that present plens envigioned either an AVAJifCHE-HAYMON or a Bumpisss BAYMOIN combination. ${ }^{76}$ According to the NAAF study the arrangenents which were belng made for setting up BUFTBES would form a part of the arrangements for mounting avalaliong. This was possible because shipping for BURTRES coula sail for AVAMHCHE with no change in loading, because supplies for either operetion would move direct from lorthwest africe,


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and because mafority on the air forces required for either operation were already in Sicily. There were, hovever, some differences in the requirements for the two invesions. ATMLANCHE would call for a buila-up of aporoximately 20 squedrons of tacticm aixcraft by D plus 14, while bTHTRESS woula call for a baild-u of only about 10 squadrons by D plus 20; also ATALAFCEE would require more tonnage and personnel than BUTHESS, the excess amounting to some 12,200 tons of supplies, 440 personnel, and 35 vehicles. ${ }^{74}$

By 5 August General Bisenhower had come to the conclusion that a direct assault acsinst the port and city of lamles (Operation whitaOUDA) had little chence of being wndertaien, even if Italy showla sudenly collapse, but that the possibilities of a successful ATAJifrotis wero steadily increasing. On 9 Augut he met with his commnders at Tumis. It was agreed that "every offort must be made to mount AVALATOHE and with the $X$ Comos so equipped with lanaing craft that it can be used either on that operation or on 3UTH2nss, if latter proves necessary, "It was also arreed that it was vitaliy important for operations in the Toe to move steadily northward, for if the 理ghth Army showla be stopped in the Too it would be impossible to launch AVALANGHin during 1943. General Fi senhower then informed his comanders that they were to proceed with "all preparations for AVAJAMOHO, with target date 7 Septemberi"; that BurfeSS would precese ATALANCHE; and thet operation BAPRACODA was canceled. ${ }^{75}$

The progress of plans for invading the matnlend of Italy nationally pushed into the background all plans for invading Sardnia (3ENGSTOHZ) and Corgica (FIREBRABD) as alternstive operations to AVALHCHI and

BAYHONL. Plans for BRIMSPOHIL and FINGBAND were not discarded, however. Almost from the begimine it had been plamned to use French ground troops againgt Corgica and as exiy as 7 June AnHQ had recomended that general Giraud nominate a ground commander to lead the invasion, working in coordination with Anericon and British air and naval commenders and with the commens authority to be exercised jointly under AFriq. ${ }^{76}$ This plan was satisfactory to the CGS. On 10 August-after the decision to launch AVALALCEE had been made firm-General Harshall informed President Roosevelt that the present plan was to let French troops take Corsica and to have a part in any operations against Sardinia which might be necessary. But, said General Uarshallmand this indicated the new trend of Allied thinding relative to the two islands-it mas hoved that Serdinia would fall of its own welght after the mainland had been invaded and that operations mecessary to tale it wowl oe relotively insignificant. A few days later Sir Alan Brooke deciared thet he agread with the JOS vieu that there would be no advantage in attaciking Sardinia and Corsica at the present time; that there were indications of a German withdrawal from Sardinia; and that it was now belleved that if italy collapsed Germany would not continue to defend either of the islands.

Ten days later, on 20 August, the COS had seen no reason to change their opinion on the Sardinian-Corgican situation, They believed that the chances wore excellent for Fifth Colunn activities to establish conditions in Sardinia that would permit an unopposod occupation or, with help from local anti-Fascist Italicus, at least an unoposed lanaing. The OCS also believed that Corsica might well be considered for similar action, and suggested that the Fifth Colum there snould be alded by

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the SOA (Special Operations :3xecutive [the British OSS7). General Fifsemhower's opinion having been requested, he wixed the cos that as Iong as the Germans had 22,000 garrison troops plus 6,400 flak troops on Sardinia the chonces for an unopposed lending based on Pifth Colum activities seemed remote. He felt thet Corsics might be easier to take than Sardinia bectuse the Cerrans had only the equivelent of one combat tean there and the locol French had already set up well-organized resistance groups which were being strengthened by arms and supplies sent in by SO3. He believea that he would be unaple to nove against either of the islands for some tine to come because operations on the Italian mainland would absorib all avalable landing craft and shipping for a long period, out he wowd watch the aituction and exploit any opening that misht develop. ${ }^{78}$

These opinions of Generai bisenhower were in keening with his attitude of a wee: earlier when he had informed General Narshall that he considered it desirable to occupy Sardinia end Corsica but that no effort should be diverted from the main task: the invasion of the main-
 and becane secondary operations, with the time and neture of their employment to be determined by the situxtion waich existed after jaymovar and Avilhand had been Iaunched.

Arter the U. S. Onieis of Staff had been informed of the progress
 Eisenhower asking If he agreed that the JOS were right in velievine that prescnt forces in the liediterrineen were adequate to drive beyond fione,

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set up a line thexe, seize Vorsica and Sardinie, and then invade southern France in Nay or June 1944. Generel 3 senhower replied that if the Allies could get a firm exip on the liaples area they would be in a good position, but he noted that the question of whether the force avallable would be 80 adequate depended entirely on the reaction of the Germens.

By 10 August, then, it had been definitely decided that Italy wowld be invaded during the first few deys of September and that the invasion would consist of two parts, separate but coordinated, one apainst the Toe and the other againgt the Salemo area. Where war never much question about hitting the Foe; it was the closest point to Sicily, its defenses were not strong, the Axis had few airfielis there, and the area was within easy reach of Allied iffiter planes; noreoror, exploitation of a successfill essault on the Toe migat easily result in oufflenime the Instev and Heel, and even offered possibilities of a drive actinst ranles. On the other hand, a decision to invade in the japles area was not so easily Iade despite the advantages which would accrue from the selzure of Namlos With its excellent port and numerous near-oy eirfields and its proximf to the exceedingly ixportant city of Eome. Faples itself was hearily defended; to the north the available beaches, alone the Gulf of Gaeta, lay behind shoals and rere bocked w by either rugeed hills or marshes and streaws; to the south, rising abruptly fron the sea, were the high, rough mountains on the Sorrento Peningula and elong the Amalfi Irive as far south an Selerno. From Salemo to Paestum there were good beaches, but mountainz a few miles inland woula restrict movenent, make egress fron the area difficult, and give to defending troops and artillery the adventege of higen ground.

Wevertheless, developinents duxing the month of July mede it highly decirable to carry out en intasion es close to Rone as possible. The downfall of Iuscolini, the accelerated development of the Sicilian campaign, numerous signs that Italy could not continue to prosecute the war and indications that she wes about ready to she for peace, the lessening of the naval and air cepabilities of the Gernans in the Neatterranean, and an increase in Allied strencth-all combined to convince Allied planners that an invasion in the Naples area had a better-than-even chance of success. An exmination and anelysis of possible gots for the initial assault indicated that the beaches betreen Salerno and Faestum offered the best site. The beaches were excellent and of considerable lengti; Amis deienses were limited in number; tho area was not too for from the Toe to pernit forces puaking out from the vicinity of Feestum to foin with units ariving north from the foe; an airfielo was avalanle at Montecorvino, only three miles inlend; most imoortant of all, the area was within fichter range from bases around Messine and Gerini. 81

The decision to invade Italy vis the Doe end the Salerno beachen dic not, hovever, stop the $G-3$ section of AFiQ from explorine one other posaible invasion site, the Rome area. ${ }^{82}$ A seaborne assault in the vicinity of Fome offered a number of ettractions: if Eome fell, Italian morale would probabli be so crushed that all orgaized Itelian resistance would end; the seat of goverment would be in Allied hands; comunications between northern and southern Italy would be almost completely severed; and the enterorise could be expected to enjoy constderable tactical sumorise. But the operation had an even larger romber of unattractive nourdetrill

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## Gomiminrimiot

features: its convoys would have to pass through an area within range of enemy ifichter-hombers on both flanks but outsice effective shorebased fichter protection; the asseult would have to be made without aderuate fighter corer in an area well gumpled with enemy air bases; the Germons could readily concentrete in the Rome area, and were already there in some force; the enery's rato of build-un in the area would be likely to exceed that of the Alliea; the terrain fevored the defense; the only port, Civitevecchie, would probably sustain only the initial assault formations and supporting air forces; and to hold Civitarecchia snd the line of commoications to Rome it would be necessary to protect a strip some 40 atles long, a comminent which woulá limit considerably the forces which could then be employed to captura and hold Fome itself. Felgning the pros and cons, the G-3 section recommended "that further consideration on a seasorne asscult to cantare Fone be suspendad. ${ }^{88}$
 were considered at this time. The only thing left to decide, therefore, was whether BAYFOin or Eumpriss would be launchod as the prelude to AVAJiHCEI. From the beginaine AVAJAi.CHE and GUITRESS had been considered alternatite operations and as it becarie increasingly evident that AVALALCEL could and would be launched, JUH-RESS began to receive less and less consideration. On 16 August General Ziseninower informed his comanders that Bayrion would take place as early as posefible, followed by Avajumgrit nt the same time he cabled the CCS that the crossing of the strait of hescine should and wowld be attempted an soon as supporting gung and supplies could be eccumalated, that AVALatoHA would be launched on 9 Septomber (barring unforeseen changes in the situation), and that
the Toe would be assaulted between 1 and 4 Sentember. 84 on 17 Aufust the HAF, Fifth Army, and Havs plamers in Algiers-who had been planning
 19 in General Fisenhower announced that Burrinsis was canceled and AVALMHOE was being mounted. 85

The CUADRAW Oonference, Ausust. 1945
General biseninower's decigion met with the approval of the Fresicent, the Prine rinister, and the GCS, currently engaged in the dUADRAPI Conference at quebec. As a matter of fact, discusaions relctive to Italy cealt but little with the question of the invesion of the Italian mainland. Discussions by the Presicient and the Frime linister apparently were limited to oninions as to how far north the Germens would set up a line of defense and whether Sardinia would automatically fall to the Allies. ${ }^{86}$ Discussions by the GOS-prior to their finel meeting-ceait principally uith the value of Italien bases for air raiois on southem Germany. 87

However, the leaders looked beyond the assawit phase and drew up an over-all nlen for futuro operations in the Iuxopean and Mediterranean theaters. Their most imoortant decision was that OVifilifil) (the crossChannel invasion of northern thrope) and POT TALAXK (the destruction of the German fighter force and the smaching of the Germen war potential by air attacls) were to have first priority, This meant that operations In the Mediterranean would be of secondary importance to operations out of TK. Future activities in the Nediterraneen theater were to be conducted with avallable resources for the purpose of bringing about the


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collapse of Italy and to oreate divergions of eneny forces and destroy vital Axis instollations on the continent. Operations were to be in three pheses: (1) Italy was to ve eliminated as a velilgerent, and air bases were to be establisaed as far north as the Pome area-and, if Doseible, in the Ancona area--for bombing the Reici and the Balkans; (2) Oorsica and Sardinia were to be seized; (3) constant pressure wes to de maintained on Gernan forces in northern Italy and there was to be created a situation favorable for eventual entry of Allied forces-inciuding the bulk of the re-Gquipped French arny and air force--into southern France. ${ }^{88}$

At their final meeting at Duebec the CCS 1istened to rerorts by two members of General inisenhower's staff relative to the Invasion of Italy. Brizailer fintely reported that Brinuil was not exnected to meet with mach onposition out that there was constaersole coucern over AVALANGEE. The concorn, he said, was owins primarily to the fact that the assault was Deing undertaken with a small force; it was possiule for the Germens to oppose the beachhead with as many as six divisions before 1 Octoder, wnereas the Allies did not expect to have an equal number of troops askore until around 1 December. Wat tely also noted that novement and maintenence would be difficult because of heary demands on ports and neroonnel and becauss of poor coumulications and limited snippins. He doubted that General Elisenhoter would be able to maintain a sufficiont number of divisions on an oporational scelo to ta'se care of a heevy German reaction, Bris. Gen. Lowell i. Eooks regorted on the air plans for the two asseults: fighters would provicie corer, the Tactical womer Force would stop motements of


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enemy reinforcements, and Strategic Air Zorce would operato against enemy airdromes and comunicntions. 89

The Cos then discussed the twin invasions. They felt that Barpoin vould not meet strong orposition. A.shiruly, however, could run into trouble, for when the Germans realized that it was not in grest strength they might throw six divisions egainst it before the end of Septemper even though noor inlond commications would handican their troop novenents. Air plans were then considered. With two excentions, the discussion coverea, no more than the points which had been prescnted by General pooks relative to the emplovient of fighters, tactical bombers, and strategic nombers--the excoptions being the cos observations, first, that General Eisenhower had requested that the $\therefore-241 s$ waich haia been used in the Ploesti raid of 1 Auguct be left in the theater so as to Increase Strategic's attacis on eneny afrfields, and, second, thet $i t$ was not plamed to move units of Strategic onto the mainland until the Allies haí possession or 90 the airfields around Fome.

Eaving wound wi the conrerence, the COS sent to General Zisenhower extracts from the decisions which they, the President, and the Prime Dinister had mede relative to future operations in the Mediterrancun ${ }^{91}$ and gave him details of the forces, supplies, shipping, etc., which would De avallable to him for carring out these operations. 92


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## Ohometer II

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## Orcanization of MiAT

The decision to mount AbALATOLA and Bingoini havine been made by General $\mu$ sennower and approved by the U. S. and British leaders, there still remained the all-importent task of working out the numexous and comper details necessary to the launching of the two operations. tine job was made easier for Ceneral Zisenhower and his assistants by three factors: first, the conquest of sicily hed been completed on Ir Ausust; second, the Ereater part of the planning had already been done; third, no revaring of the existing air forces organization was necessar, tne sicilian campeign and tho last half of the runisien campaign having shown thet the orgenization waich had ueen esteblished on 2,8 Februngy 1943 was a souna one and entirely adequate for leuncaine an invasion of Italy.

A broad nicture of tine structure of the allied air forces in the Lediterinnean when the fincl plans for the invasion were being made is essentiel to an understemding of the carpaign in southern Itals. ${ }^{1}$ All Alied nir forces in the liediterronean were under the Nedterranean sir Command (120), headed by Air Chicf Smahal ledder, liff was a smali blanning and nolicy sterf of Anericen and 3ritigh ofitcers which coordinated the requirements of subordinate commend and served as sort of "brain trusti for the Lediterraneen alr arm. Where were three princtpal elements under NG: Headouarters, Lalta (Air Vice Marshal Park); Raf, IUddle Zast (AIr Chlef Varghl Iouglas), which had in it the J. s. Einth fir Force


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under Ney．Gen．Levis H，Brereton；and the iorthwest fifican in Forces （INAF），e combined American and 3ritish force under It．Gen．Garl Soaatz， who also servea as Tedder＇s deputer．The dmerican element of fian was the Twelfth Air Force，comranded by Ceneral Spaatz．

Interrally，hisp ves organized into the following functional sub－ 2 divieions：Jorthwest African Stratcgic Air Force（xisay），uncer comand of laj．Gen．Jemes Doolittle；Northert Africen Tacticol Atr Force（ainar）， Ar Vice Marshat Sir Arthur Coninghom Yorthwest Africen Coastal Air Force （ITACAF），Air Fice Jarshel Sir Pugh LIorc；Northwest african Troop Coxrier Gommanc（Mates），redesifarted XII Trooy Cerrier Comand on I Sentember 1943，Brig．Cen．Paul I． （HASC），BriE．Gen．Harold A．vartron；Forthwast ifrican Training Comand
 ＂ing（ixiFiv），Col．Illiot Poosevelt．Nach of these elements of Mifit had in it both Amexican and Eritich personnel and planes，and soveral had one or more units representing South Africa，Cancde，Australia，Erance， and Polend．
wASit was comoosed of one ving（four groups）of U．S．B－I7＇g，one wine（three prowos）of T．S．B－26＇s，one wing（two grougs）of U．S． B－25＇s，and four FAF wings of iellingtons．There were also two grovas of U．S．P－2A＇s，presently on loan from the IInth Air Force but soon to be traneferred to the rwelftin．Iscort for the bombers wes supplied by Hignts three P－BE and one F－40 fighter groups，all from the United States． The finerican element of MASAF was XII Bomoer Gonmand；the RAS element ves


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the 205 Bomb Grown.
lianas was broken down into three parts. One was XII Air support Commend which consisted of two groups of $m-56^{\prime} \mathrm{s}$, two groups of $P-40^{\prime} \mathrm{s}$, one grown of Spitfires, and one squadron of $F=51$ for recomalssance. XII ANO was entirely American in personnel. The second element was the Tactical Bomber Force (M3F), mede up of two U. S. groups of B-25's, one U. S. Group of A-3's, one PAF wing of Baltinores and one of Bostons, one SAF vinci of Bostons and Zaltinores, and a squadron of EAF Hurricanes. The third element was Desert Air Pore (INF), winch was almost entirely British. The Desert iffy Force operated through an Advance Leadquerters and a Pear Headquarters. Under the former were two U. S. groups of P-40's, three wings of RAP Spitfires, and one wing of RAF Kittrbaws-all of the RAF elements being attached from the Piddle Bast. The Pear Headquarters controlled three RAF wings (flying a mixture of Prion's, Eurricenes, Soffit. Aires, and Euasons) and one Polish flight. ${ }^{3}$

DACAF was the most heterogeneous element in the theater, and it flew an amazing collection of planes. Its principal lover echelons were: the PAS 242 Group which was composed of two far wines lying Snitiliren, Eurricanes, Beeufighters, Baltivores, "ellington, and Hudsons; the bed Fighter Ming (Palermo Sector) with one U. S. Spitfire group and one squadron of EAT Beanichaters; the Tunis Sector; and the Suse Sector. ${ }^{4}$ The disposition of the other elements of Coastal was determined largely by the responsluility of that air force for defending allied territory and. convoys over the vast stretches of land and water from Casablanca to Bizerte. Hence, within Coastal were the Algiers Sector, Bone Sector,



Oran Sector, Casablance Sector, and CAF Fort Lyouter, CaF Blica, CAF Fafaraoui end UAF Eone. These elenento had in thea U. S., PAF, and FAF scuadrons and flew evervthing from $\bar{F}-39$ 's to Swordfishes and from Spatfires to Valruson. All of the U. S. squadrons were elements of XII Figehter Command. Swo other units completed the CAF line-up: a group of P-39's (V. S.) used for patrolling offshore and a $\mathbf{2}-24$ grows emplozed in antisubmarine activity.

Aorthesest fifican Aroon Carrier Comand consisted of the 51 at and 52d Froop Carrier Wings. The former was composed of three U. S. groups flying $0-4^{\prime \prime}$ 's and $0-53^{\prime}$ s and one RAF wint flying Albenarles and Halifaxes; the letter was comosed of four U. S. groups with C-47's. Troon Garrier's normal jobs were to transport atroorne troops, to: eliders, move in suoplies and equibment to forward arcar, and evecuate wounded. ihen ordered, it would transeort porsonmel and supolies in rear areas.

Horthwest African fir Service Command wes a corbination of the original XIf Air Force Service Commad (XII ASN) and the supoly and maintenance elements of tho FAS Zastern Afr Command. It coordinated U. S. and pas requirements in suphly, aircraft repair and maintenance, airfield construction, aircraft erection, and other sexvice activities which were needed by the "ir arr. ${ }^{5}$ Assigand to sidhsu were one group of U. S. C-47's and one mixed squadron of Raf $C m r^{\prime \prime}$ sand Hudsons, all under the operationel control of Nediterranean Air sransport Service (WAis).

KADS, under Brig. Gen. Robert A. hauch, had been established in Way and activated in July 1943. Its funotions were to control all transport
aircraft enfaged in the movemetudistumles, personnel, and mail in iorth Africa north of $30^{\circ}$ latitude, and to coordinete all schedules involving such movement. On 5 July it began operating, its planes flying reguler schedules between Korth African points. Some of lims' aircraftall of which ware $C-47^{\text {Is }}$ g-mere transierred to it from latul ; the remainder stayed under assignment to didisc but were under the operationsl control of NAS. XII ASSC exercised administrative control over the new transport service, and much of the administrative persomel winich was assignea to Has was drafted from XII AFsc. ${ }^{6}$

Morthwest African Sraining Comand (redesignated XII Air Force Training Comand on 26 August 19A3) consisted of one U. S. P-39 groun, two U. S. A-JG squadrons, and two French squadrons of t-32's. The command hed bean orgenized primarily to provide training in combat aixcraft by experta versed in tactical methods and practices then in actual use at the front. It also teught pilots to fly new types of aircraft and prevared for combat those pilots with no onerational training. Prosentlig, it was training voth USAB and DAS pilots and cxews. The adminiscrative structure of the Training: Conmand was firm, but its persomel--excent for adninistrators and traingrs-men fluid because of a steady inflow of personnel to be trained and a reguler outhlow of nersonnel whose treining was completed. ${ }^{7}$

Northwost African Paoto Recomaissance ming was made up of the U. S. 3a Group, which had in it one squadron each of $2-17^{\prime \prime} s$, F-4's, F-5's, and
 one Fal $\bar{I}-4$ squadron. One group of $\overline{0}$. S. P-38's was scheduled for early

arrival in the theater and for asgignent to IHPRN. Whirty more F-8's also were scheduled for shipment: ${ }^{8}$ The P-38's wero particularly desired by HapRi, for theater pilots considered thea as equal to, if not better than, the Soitfire Marime at 30,000 feet and avove. ${ }^{9}$

On 31 August minif had in it 5,895 RAF and 4,315 U. S. airoraft, a total of 10,110 planes. ${ }^{10}$ these strencth ifgures, however, are misleading for they are by no means a truc index of the fighting power of What. Erobabler two-thirds of the RAR planes were nonoperational. ${ }^{11}$ which meant that the FAS had only around 2,000 planes which could be used against the Axis, and this reduced the totel wan strencth to about 6,200. Eiguring 75 per cent serviceabilitr the Allies had some 4,650 nianes availade. Bat tais figure also is misleading for it includes various tepes of afrcraft at various atations all the way from Casablances and Gibraltar to Hessina and raita, many of which could not support an invasion of the mainland. According to z3d SJOZU (Statistical Control and Operational Fenort Unit), the Twellitin Air Force had only between 2,000 end 2,100 operational Doabers, fikghers, and transport planes at the end of sugust. ${ }^{12}$ Probably not more than 2,500 to 2,750 of NAIF's plenes were of the right tipe and in the right place to be employed afrectly in an infesion of Italy, ${ }^{13}$ and not nore then 3,500 could be counted on for service during the subsecuent cumaign. ${ }^{14}$

As to nersonnel, LAAF had in it on 31 August 170,418215 and 97,020 USAAF persomel, a totel of 267,438 bodiles. ${ }^{15}$ filvever, persomel fiemres likewise hewe to ie read closely, for they include thousands of bocies


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whose location and/or duty was such trisumey could contribute only in-directly-in some cases very indirectly-mo an invasion of Italy and a follouing cemnaig.

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It is unnecessary to follow in detail the various steges tironen which the over-all plens for saymons and sualarionis passed; it is enough to know the detaile of the final plens for each operation,

AMTO. Was to be essentially a sritish affair, employine the British kiighth Army, with air cooperetion proviced by the predominantly Bxitish Desert Air 耳orce. Planning for this operation was much easier than planming for AVALAKCHE, primarily because BAYOM was to consist merely of moving two divisions acrose the narrov Strait of Messing and landing then in an exea where Axis defenses were believed to be weak, and secondarily, because it was no problem to provide adequate air cooneration from near-by Sleily. The final plans called for one British division to land at Gallico and Catona and one Ganadian division to Iand at Pegeio. 3oth lendings were to be covered Dy artillery fire from the Messine sice of the strait and by neval fire. Air cover would be furnished by DAF. The inmediate oojectives of the Zighth Amy were Eegcio and the Ioe airfields; its ultinate mission was to clear the Toe and sweep northverd for a junction with the right wing of AVAThlumit and to fan out toward the east for a link-up with other Britioh forces which were to be landed near Paranto between D plus 2 and D plus 7 in Cperation GIBiOHi ${ }^{16}$

Up to $D$ minus 7 the Allied air forces tere to pare the way for baymon

by attacis on enemy airfields with the ovject of neutralizing the GaF. From $D$ ninus 6 to $D$ minus 1 the assault areas were to be isolated, enemy noverents into then interaicted, and defense positions reduced. On the night of D-1/D-day Troop Carrier wowla drop airvorme forces while night fighters would cover the assault convoys. On D-day figiter cover over the assault oreas would be furnished by Dip, and normal close alr action oy Iactical fir Force. Sulsequent air operations would be the usual ones of preventing the enemy alr forces from interfering effectively with the Fighth Amy, of hittine Axts concentrotions, and of givink airect assistance to the wround forces. ${ }^{17}$

DAF would exercise operational control over Factical 3omber Force under the direction of Tactical Air Force turoumh D-day. Aifter D-day tho greater naxt of LIBS was to be turned over to XII Air Support Comand
 the 232 ling ( $R$ Sis Beltimores) would be retained by DAF for coordination Wh the 3 ghth Arry as it moved up the Toe. ${ }^{18}$ DAF, alome vith Headourters, Hilta, worla be responsible for the protection of ang convoys during avalimoli which mignt move along the south and east coests of Sicily. 19

D-day for Baxiont was set for the early morning hours of 3 Septemper. She Outline Plen for Coration AVALAMOLA, 20 prepared oy the Eliti Arry pleming steff, was published on 15 august. A corrected version was issued on 26 suguat to neet chames in the strategic situation. The plan, as revined, ascumed that Italien resistance would be amroximetely thet encountered during HUSLI and that Germany would be forced to iseep the bulk
of her eir and ground forcos on the Enssion front. It further assumed that Bayionill would be mounted. The plan called for an invasion of the Italian mainlond by two corps and by follow-up troops that would bring the total/Le5,000 ${ }^{\text {21 }}$ acainst enemy forces estimated at 39,000 on Dunay but capable of being increased to nore then 100,000 by D plus 3. The rission of the Iifth Army was to sel ze Salerno and the airfield at Montecorvino and then, drivine inlend, to capture the port of Maples and secare the air fields nearmy so that further offenaive oomations nitht be carried out from a firu bage. The imerican VI Corps (la, . Gen. Thnest J. Tawley comanaine) and the 3ribish 10 Corps $^{32}$ (It. Gen. Sir Fichard I. Vcoreery), sailng irom forthwest iffican ports, would initiate the invasion by simultencous attacis on the benches south of Salerno on 9 Soptember. E-hour beins 0330.

The Optline Flan aiso provided for an irny flonting reserve, consisting of two forces. Force I had one reinforced regimentel combat team of the U. S. 45 th Difision and wes to enbaria froin Sicily prepared to land on D-dy over any of the nreviously assamited benches. Force II consisted of one feinforced regimental combat teem of the U. S. 82d Airuorne livicion thich was to be propared to land on beaches not previously estzbilshed. 23

Sollow-un troops included the balance of the A5th Division, the 34th Division, the listh Field Artillery 3rizade, the lst or 2 d Armored Division, the 30 Diviaion, one smerican tank battelion (redium), and suoportine troons. Laintenance for both coros wets to be sumlied primarily over the beaches until the port of Fapies hed been mede available, aithough 10 Comps mifit count on receiving a smil amount of supnlice throuph the nort at Salemo. onumimernith


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The 10 Gorps (less rangers and Commnios) tat to go ashore on three orincipal beacher between Ficentino Creek and the Selo River, the area Iying five to gine miles southeast of Salerno. The Fangers were to land at the tom of Laiori and the Commandos at Vietri. The imediate objectives of 10 Corps vero the port of Selerno (to be taken by the Commendos moving down from Fietri), Fontecorvino airifeld, the important rail and rood center of Zattipaslia, and Ponte Sele on Higavay 19 over the Sele Fiver, The Fangers were to advance north from Maiori and selze the Nount di Chiunzi and Focera-Pagani pesses between Salemo and Hanles. The Comiandos were to seize Fietri and then move east to Salerno.

VI Corps vas to lend on four beaches between II Tiunarello and Solofrone Cree's and just west of the anclent village of Paestum. Its imediate objective was the high ground which ran in an axc from the sele River through Altavilln, Albunella, and Rocon ataspide to lount Vesole $^{\text {a }}$ and taglieno. On the extreme right of the VI Corps the lalst Reginental Combat Feam was to occung ley points in the mountinin arc fron Nount Vesole to Agropoli at the southern end of the Gulf of Salerno. The aividing line Detwean the two corps would be the Sele Fiver, and the function of the forces was plenned to taise place at Ponte Sele. 24

The naval plan, 25 entitled Testem Naval Tasi: Force Operation Plan 3o. 7-43 (short title Avon/n), laid dotm the organigation and missions Of the Jestern Laval Tasis Force under Vice Aorn. H. K. Hevitt, USL. The Fask Force was comosed of the Control Force, the Southern Pask Force, the Northern Tesk Foree, and the Suphort Carrier Sorce, 36 which, coIlsctively, were to transport the assault troops to their points of debariation

off the beaches and to support then by naval gunfire and carriex-based aircraft until they were firmly established on ghore. The Control Force included the flagshit (OSS Ancon), a Ficket Grow to screen the attack forces from hostile surface elements, and a Diversion Growo wich was to malre a feint against the beaches northwest of kaples to draw aff enemy forces, The Southern Hask Force was to carry VI Corps to its beaches, while the Horthern rasir Foree was to trensport 10 Gorps. The Sumport Carrier Force, consisting of one cerrier and four escort carriers, wes to supply the maxinum practicable fighter protection to the naval forces and to assist the Sicily-based fighters of XII fir Support Command in controlling the sir over tho beaches.

## Zfeorts to Strenathen Mass

Planning for the role of the air forces in AVALAKCH was a complicated and difficult task. Fot only did the convors have to be orotected on their long trip from several rorth African ports bub-wand this was the greater problen--the assault beaches vere barele witain range of sioily-besed fighters and wers within easy reach of Axis airfields around haples and Fopsia.

The distance from Selerno to Prapani was 226 miles, to Gorbini 224 miles, and to the Nessina area 173 miles. Pighter radiug, includinc 10 minutes of combat, was as follows: P-39, with one long-range tank, 350 miles; A-3G, witi one Iong-range tank, 200 miles; Stitfires, with one 90 gallon tank, 180 miles; P-39 and $2-40$, with one 75 -gallon tanc, 150 miles; Beaufightera, 300 miles. The above fingures meant that P-38's could reach

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the essault benches and remain ovar them for an avernge of one hour, that A-36 ${ }^{\dagger}$ a could stay for 30 minutor, and that Spitfires could stay for 20 ninutes. Probtr and p-ro's vere not able to reach the area and retum and so could be used onlif for convoy duty near Sicils. Beaufighters, operating from Geroini, could provide protection at nigit over the beacies and the offshore sixpoing. ${ }^{[7}$

In adaition to the Sicilien fields tnere was some nossioillty of using tho fields at Regeio and Vibo Valentin on the Toe, respectively $184_{4}$ and 152 miles from Salerno. 23 Their use, however, covid not be considered in plaming because there was no way to forecast the success of BArion.

Whe distance which the fighters had to fly in order to cover the beaches created two potential bottienocis. One was in the expply of 90Eallon tands for the spitflres. Poward the end of nUBix there were only 840 oi the tanks in the theater; but by the time AVATuTionis was lanched additionel tanks had been shipped in, and forturatoly durine the operation the comatment of fighters was on a graller scale than anyone could have gnticipated. The other dancer was that there would not be enough airfielas to take care of the Spitrires, all of which hed to operate from the Hessina area in sicily. Fortunately again, fact wor: br aviction engineers in preporinct fielas and a cerefully planned schedule of operations removed thot dencer. ${ }^{29}$

AFRC's concern orer the possioility that it rainht be difficult to provido adequato fichter covor for the assault because of the dintance involved was increased by the fear thet there mitht not be enough oorbers and Atguters on hand to neutralize the eneme's air arn and disrunt his


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lines of commatertion. thit would be a bicger fob in Italy than it had been in runisie or in steily, yet nothing would contribute wore to the protection of the assemlt forces. Whiortunately, the lony and strenuous
 thinned out and worn down both crets and planes. General alsenhower felt that the best gurrontee of success would be $E$ temponery doubling of the number of heave bombers currently in the thenter, for then the German fix force could be naralyzed and the Gerron tround forces imobilized. On S3 July he succested to the GCS thet if they wowld shift soveral groups of B-17's from the 工ighth Air Force to the lediterranean, letting them operate
 launched, that the chances of success wowld be greatiy enhanced. This sugcestion was refused by the OOS on the ground that it would aeriousiz impair the combined comper offensive at a critical period. ${ }^{30}$

Two wecks later General IIsenhower asked that three P. 3 g grouns which had been gent dom from UE and wich hed bombed ploenti in the great reid of 1 August bo left in the Nediterranean for employrent against targets in Italy. General Eazer, commanar the zilghth air Corce in K, protested, caying that the three grouns wero his only experienced $\mathcal{Z}$ - 24 units and that he wanted then for blows against the car bofore tine advent of bad weather. General Arrold egreed with General Zeker. Gencrel insenhowor then argued thet :1thout the groups he "would be skating on Fers tinin ice in AVilitiodis. " If the invasion were successful, he declared, tho allied Air Sorces would be provided with nost fevoreble bases for the continution of the air offensive afeingt Zurope, "out to have a feir charce to gain these brises


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We nced this strencth at this time. He felt, too, that there was an inmediate need for the units because of the qusility and quantity of cerman Grown troops in Italy and because the Germans were reportedir bringing in an additional bomber grow. The only way to prevent concentration of txis forces mould be by bomoins and the only wey to keeo down the axis air threat sould bo by hitting Italian airfielde prior to D-day. If the three grous of D-84's were returned to the Uk fron the Vediterranean, dian would have only four $2-17$ grows and two understrength E-34 grows. Horeover, there were not enough ronlacenents for the siz groups, to say nothing of the fact that the P-38 pilote vere neexing exheustion. Sir larehal fedder and Gencreil Spanta also were convinced that loes of the thrpe groups would add much to the ripirs connected with Avatimofe. 31

In spite of these arguments General surcold returned the groues to $U \mathrm{~N}$ on the fround that the stegth had to destroy a prenonderance of the Gerian fightor factories before the onset of bed weather. He sugesested that the lediterranecn would receive an inulvect surport fron the departed groubs as their attaciks would oull Geman fichter afrareft from the lediterranean and their destruction of Gorman industries world be reflectec in a reâuction of GIF defensive ability. 32

There had been one other nosstible way by which MABF could increase its heavy bonver strength to the point where it could feel that it had enough lons-ringe offensive aircraft to guarantee the neutralizing of the enemy's airitielas and the disruntion of his lines of comunicesion, that was by remequipping the medium groups in the Nedsterranean thenter with
 B-l7's. The bombardment strikine power of an air force is measured in terms of the weight of bombe which can be dropped on enemy targets in a siven period of time. Expressed notheratically, striking poser is the sustainable number of sorties multiolied by the veight of bombs wich can be dropped per sortie. In the lediterranean thenter, during the late saring and sumer of $1943, B-17{ }^{\prime}$ s were dromine 2.545 tons of boribs per sortie While $3-25$ 's were dropping only 1.305 and $\mathrm{E}-\hat{\sigma} \mathrm{C}^{\prime} \mathrm{s}$ only 1.330 ; moreover, only one-half of all B-17 missions were escorted by fifaters, while nine-tenthe of all E-2à niscions had fighter escort. General Spantz had cone to the conclusion that by re-equippine most of his medim groups with jortreases he would not only increase the strikime power of LAF but would release inghter aircrait for use in other tzpes of onerations, and on 24 June he had supgested to 36/AS, Plens at Headquarters. AAS that the chance-over ne mede.

Plans studied the "desirability, feasivility and acceptabilityil of the Spaatz suggestion and cane to the conclusion that the conversion and reequipping of fite growos of mediums would effect a delay in the build-wo program of the 3 ghth Air Force and that the conversion would deprive the Ground forces of needed tactical cooperation. On this basis Generel Sparatz' suggestion wes rejected. 33

Being unable to bolster his heavy bomber strensth, General hisennower then asirea for the loan of four groups of medium bombers from , but the requent was turned down be General Marshall. ${ }^{34}$ The final blow to hopes of an Increase in afr strensth came a few days before the launchine of

 were extremely valuable for lomerange fighter works, serving as convoy and bomber escort, covering assault areas, and giving ground cooperation. The loss rite ( 60 in August and 24 in the week ending 5 September) already exceeded the replacement rete, and less than 250 were currently availeiole. ${ }^{35}$

It began to appear that Air Marshal Redder had had a clear nicture of the strength that would be available when he informed General Spaatz on 31 July that the air forces which he would have at his disposed for the planning end execution of future air operations would have to cone "from the resources already nemmently allotted to your command. "36

However, before the invasions were launched $14 \mathcal{H F}^{\circ}$ was to be strengthened somewhat by the addition of several units from the ifinth Air Force. Approval to shift these units had been requested dy General Ifisenhover early in august and General larshall had endorsed the plan on 7 August. General zisenhover, with the approval of General 3rereton of the 3 Ninth, was to set the tine of the transfer. The only restrictions on the shift were: first, that $4 t$ was not to interfere with RIfaliditi (operations against the Ploesti oil fields) and, second, that some U. S. troops would have to remain in the "fiddle wast to support the Air Irensoort Commend, assist the British, and handle intelligence. 37

The number of planes which could be made available to flat be the Finch as increased early in August when 36 planes and crews from the Eighth Air Force and 26 nlenes and crews from the United States were sent to the ninth to be distributed among its five D-2e groups. 38
effective 22 August the 57th, 79th, and 324th Fighter Groups (P-40's)
 the 12th and 340th Zomb Grours ( $\mathrm{E}-35^{\prime}$ s) to XII Bomber Comand; effective 23 August the 316th Troon Oarrier Grow (leas the 37th Sauadron) went to XII froop Carrier Command. All of these unite, being smericon, thus came under the direct adrinietrative control of the Fwelfth air Force. In addition to the avove units seven Air Service Commad units were transferred between 23 and 26 August. In all, 1,300 officers and $\%, 000$ enlisted men wero transierred. ${ }^{*} 9$

Generel Zifencover also was able to add to his air atrencta by the addition of sevorcl hundred gliders. He had decided as soon as avaliaiodis had been orofected that he would emoloy airborne troons in the operation and kad ordered the 82d Airvorne Division returned from Sicily to Kairouan (Tunisia) for assembling, re-equipoing, end training. On 1 August ho as'ed for 30 : Weo fiticers (CG-4A's) and 50 Elorsa eliders to be delivered at once. The request for the "acos was mromptly anoroved by the Gas. The reguest for the Horsar was also aproved but, as they had to be towed from Ur by PAJ Dlenes, fuxther erproval of the Sritish Air ianistry was necessary. This wes given and the Horcas were novod to the lediterraneen by the Ear 38 ining. The wing then stayed in tae theator, on loan, until Cotober 19.43 .40

These additions gave $\operatorname{LiAA}$ a total or some 700 incos and 60 Horsas, which together were onough to taine care of planned operations. But the decision to use large numbers of cirborne troons threatened to create a new pottlencols: transport aircraft to haul paratroooers and to tow gliders. The botilenec: never materialized, however, portly because the $2 x s 35$

Fing wes available, and marty because the final conitment of transort aircraft totaled only 318 planes, horeas 365 were available. 41

## The in Plen for avalioki

The Qver-Al工 Flan. Gereral Insoahower had stabed that the plans for AVHALiHEA would not be altored whether he received adaltional air atrength or not; ${ }^{42}$ consequently, :AAT's $\alpha=5$ section prepered its air plans long before D-day, and in terms oi knom availawle alrcraft. The broad tas: assigned to Shif fell into four nein divisions:

1. Fo neutmilizo the eneng air forces by cir bomberdment.
2. Fo provide air protection ovor the assialt convoys, the assaulus, end subsaquent operations.
3. Wo provent or effectively retard the movencnt of eneny forces into the assault area, and assist the opernione by air acition.
4. So transmort and arop airobme troons anaced in the operation.

In ndaition the air forces were to mrovide:

1. Tine defense of territory alrendy held by the Allies.
2. Protection of lediterramean convoys.
3. Attecks on Axis conroys and naval units.
4. Antisubarine reconnaissance and strizen.
5. Strategical and tactical photograbilc reconnaissance.
b. Air-sea rescue.
6. Air transportation. ${ }^{14}$


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## gampruthas



Strataric Bombinc To carry oxt the first and third of the four major tasks, WAN hed four B-17 groups, two B-24 grous ton loan from the lwinth Air fores), ninc squadrons of collinstons, three groups of B-26's, and two mpoge of B-251s in Streteric Air Force, plus two sroups of B-25:s in Tactical Bomber Force, Issumins a 75 per cent serviceability in all units thero were 346 herwy day bombers, 388 medium doy bowtors, and 122 modium night bozibers-a grend totel of 856 bombors for neutralizing the sis air forces and isolating the battle arca. 45

As a mater of fact strategic had eiready genc a lone vey toward realizing these tro objectives before the ond of the Sieilian ampaisn on 17 Auryst pemitted it to throw its entire weight aguinst the mainland of Italy. It hes been noted ebove thet baginning on 4 Decomber 1942 the Ninth Air Force initiated e moderate bombins efiort against Italy in support of the Desert Cempairn, that inlta-based plancs added to the aifort in Jenuary lecs with borbing and strafin, atiends on railroeds, stations, warehouses, ete., and that the seale of thuse attrok slowly but stesdily increased throurhout the rinter and spring of 1943; it has also been noted that on 4 Agril 1943 the rwolfth ar porce joined in the attock on the mainland. With the ond oi tho Tunisien eamapim in mid-way, Stratogic was able further to increase its air ompaign against Italy, and wile these attacks besicelly trere in preparstion for IUSHY they also were clearing the way for ATHEAGHE ma BAYMOHI.

During lay major air assaults were delivered against Taranto and Rogsio di Calabria (across the Atrait fron Lessina), Civitavecchia (the principal port between Faples and Leghorn), Grosseto, Lido di Roma A/D,
 Leghorn, and Hoples. The largest single mission was againgt Leghorn with 92 B-17's boabinç its railroad yerds, shipbuilding yards, and oil tenks. However, the heaviest veight of bombs for the month fell on Fogia and its principal airarore in four attacks by a total of 96 R-2A's and 94 2-171s. ${ }^{47}$

During the Iirst 10 days of June the heavies were busy with the job of reducing Puntelleria, and the Italian mainland enjogred a comparative resnite from Alled borbers; but in the last bwontaixas of the month the heavies and mediums gavo sey spots on the peninsula a hard pounding. At Spacia a battleship, a cruiser, docks, and oil storage facilities vero domaged when 112 Fortresses unlocded over the clty and its haruor; Eeggio and san Giovani were hit by a total of $1.6 \in$ sorties; and Leghorn's industrial area was pounded with 261 tons of botabs dropged by 96 - $-17{ }^{17} \mathrm{~s}$. Other localities wich received major assaults were Maples, Grottaclie $A / D$ (near tranto, on the Heel), Cancello (on the Volturno, 25 miles avove Laples). Battipaglia (on important road and rall center some 13 niles southeast of Salemo), Beri, and salerno. During the period the main velght of Allicd attacks was directed against enemy bases and commonications, primarily to hinder the roverent of reiniorcenents from Italy to Sicily. This was especially true of the efforts of the Lwelfth Atr Eorce, vhoso heavies carried out 337 effective sorties and whose mediuns flew 566. 48

Mring liay and June, Malte-based Beaufichtars and Soitifires continued the cysten of sweene waich they hid initiated in January, bombing and
strafing treins, railway stabions, nirfields, etc. ${ }^{49}$
During July the heavies and mediums of the Fwelfth and linth Air Forces hit Italy often and hard, concentrating their efforts against airCromes and marsholling gards. Some 45 major attacks were made, totaling more than 3,000 sorties. The ereatest single raid was on 19 July when $5003-17^{\prime \prime} \mathrm{g}, 3-24^{\prime} \mathrm{s}$ and B-25's hit Dome's marshalling yards (and a near-by airdrome) in a fine exhibition of precision oombing. The next lergest single asssult was against Haples, delivered by 365 heavies and mediwn of the twolfth and winth; mershalline yards, industrial arees, and fuel installations were uit. on five otner occastons fikoles wes the target Ior attacks, with considerable danage resulting to her docks, $M / Y ' s$, stocis, and other militnre objectives. she A/D at Vibo Valentia (wo the Woe Irom Regrio) recelved the third heaviest attack of the month, being nit by la mediums, and was bombed on three other occasions by heavies or mediums. San Giovami ${ }^{\dagger} \mathrm{s} / \mathrm{Y} / \mathrm{Y}$, ferry slips, and rallroads took the fourth hardest single pounding when the town was hit by more than $100 \mathrm{~B}-1 /{ }^{\prime} \mathrm{s}$. In all, it wes vibited four tises. 60

Airdromex :hich were bombed during July included Reqsio, Grotone, Fo.goia, Sari, Pomiclieno, Fontecorvino, Danodichino, Grossetto, Canua ( 20 miles north of Fanles), Gnottaglie, Aquino (between laples and Eone), and Viterbo ( 45 miles north of Eome). $\mathrm{K} / \mathrm{Y}^{\dagger} \mathrm{g}$ and railroeds were hit at Fegrio, Foncia, Smlemo, Battineglia, Bologna, and at severol points on the Loe. 51 Fine peak of Strategic xir Force's bombing effort orior to the end of the Sicilian compaign cane during the twoweet period of 10-24 July.

## GOMTIDTMITL



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Thereafter, the effort fall off, the cecline being due in laxge neasure to nilot fatigue. ${ }^{52}$

Sowari the end of July the air forces set up Operation diritim for the ourpose of destroying the air ferxy service which the Gemans were onerpring jetweon Sardinia and the Italian mainland. Fegrar sweeps were carried out ovar the Tyrrhenian See. Eesults of the operation were Ilmited, howevar, until late in Soptembar. ${ }^{53}$

Iuring the first 17 days of August attacis were continued againet
 satellites and Fiterbo were hit hard, as was Orotone. Other targets included Sapri (In the Too, Gulf of Policastro), Battinaglia, lanles, Grazanise A/D (near Maples) and Regric, and other towns on the Foe. An interesting devolopment during the period was the beginning of a series of attacis ngeinst row and rail bridges, a procedure wich in time would puch the old stendard operation aceinst $H / X ' s$ into the baciground. Zridges oror the angitola Biver (at the narrowest pert of tine soe) were attacked
 was bombed. ${ }^{\text {E }}$

Thus, by the time the Sicilian camaign cane to an end bonoers from MAF and the liinth dir Force already had dropped sovercil thousand tons of bombs on hey cities, $M / Y^{1} s, N / D^{t} s$, harbors, oridees, and other installations on the mainland, and the program of neutrolizing the axis air forces and of cuttins comuncations to the ArALMCHE-binoun areas was well undor way.

It is, of course, impossiole to evaluate the effect wich the Allied



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 warehouses, and other installations durine the Tunistan and sicilian catroaigns had on the Axls military potential, ability to resist, and morale at the thme of the invasion of the Italion mainland, or to determine how large a part these prelininary bombings played in the success of inve been repaired, so that an airfield wilch hat been useless during the Sicilian carpaign mignt again be handing its normal complement of planes when Allied troops went ashore at Salerno, and a railvay lins which had been completely interdicted curing July might be in full oyexation by September. Eut the effect of bombing is alrove cumulative, nu there is no doubt that the tons of demolitions and incendiexies vich fell on key spote on tho manlond votween \& Iecemer 2042 and if Aurust 1943 not only contributed heavily to the sucess of the gunisian and oicilian comaigns but built wa degree of degtruction wion, uith tane concontrated attacis that were laid on in the period between 13 ausuat
 OI the Gcran fir Force to interfere with tne invasions an. linited the reiniorcements and supolies whica the ixis could move into southern ItalyBrery bomb witch lell on an Italion target, no matter how many weers before the invesion, contrlouted sonething to reducing the Axis wor strenctn and the morele of the Italians anti thes to the success of the invasion.

Coper for comary, Assamity, and Reaches. The secomd major task

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assifned to tine air forces was to provide air protection over the assault convoys, the assaults, nad suogequent operations. Frotection for the convojs from the time they leit the normal conroy routes was to de the rescongibility of Coastal air Force (CSF) up to the last light of p minus 1, when the responsibility would pass to Tectical mir Force (Tar), EE Das would tate coro of any hathiofic convoy which wigh pass throug the Strait of lessina. For carrying out its essignment CAF had some 850 aircraft, 372 of wich vere FAF unta attached from the lifdale sart and Ináa, and 169 of which were Tronch fir Force units. 56 The number of planes was more than enough for the single joi of protectine the tsealt confoysult CAF hed rany other taske to perionn. It was chorged with the defense of inlied territorm, including nirmorts, norts, cities, and military instellations; it watched over nomal convors; it conulueted reconnairsence of enesy shipring; it carried on a constant dir var against ixis submarines and surface craft; it was resnonsible for air-see rescua for all alied air unitg in the western lediterranean, Its overstions extended from Casablenoa to Sicily and over thousands of square miles of ocean. Furthermore, a laree number of its planes were types such as Swordfishes, Dekotes, chalruses, and Albatrosses, none of which covle be used for convo苞 duty. 57 General milscnhower felt that Gisits forces were inedeaunte for its several tasks and strengthened it by giving it a E-2d entisubmaxine squadron which had been operatine under the Navy at Fort Iyautey in Vrench Morocco. ${ }^{58}$

It wes planned thet on and after D-day CAF would be resoonsible for shimpinc to within 40 miler of the becches, and that gar would be resnonciole beyond that noint. TAF planned, won tezink over from Car

# RESIRICDE Gevornany 

the protection of the inghore convoys, to furnish cover by employing two squadrons of F-38's and one ench of A-E3's and Spitfires, plus one of Seafires. For example, elerents of the let, 14th, and 82d Figiter Grouns (P-28's), on loan fron Strategic, would kecp 4 aircreft over the convoy at all times from 0900 to 1000 , 8 aircren't from 1000 to 1000 , 12 from 1300 to 1400,20 from 1400 to 1600, 24 from 1500 to 1600,28 from 1600 to 1700, 36 from 1700 to 1800,40 from 1800 to 1900 , and 36 from 1900 to 1950. ${ }^{59}$

XII Air Supoort Comman was given the job of fumitshine adequate air cover for the asgault and for subscouent ground operations. This was the most difficult of all the tashas assigned to the air arm. The fields closest to the Salorno beaches were those around lessins and they were out of $2-39$ and P-40 rance and barely within reme of Spitilires carrying 00-gillon tanizs, which meant that the jov of protecting the lendings would fall uon HiAT's three groups of F-36's, two groups of k-36's, one gromp of U. S. Spitfires, and 18 squadrone of ALE stititires, with four squadrons of Meaurichters handling the situation at night. The Outline Air them for Operation AVALHENA ectimeted that the $-35^{\prime} \mathrm{s}$ would fly two sorties each per day, staying over the assault area for one hour, and that each Spitfire would fly two sorties, steying over the assault area for 20 minutes, which would gite an ntarase of 36 lend-based aircraft constantly over the veaches on D-tlay, In adaition, ITO Seafires (from one lifht flect carriex and four eccort carrions) would be avaliable to provide fichter cover cmounting to a continuous natrol of 22 aireraft durine $D-d a y$ and 11 to 36 stircraft on D plus 1. This would greatitotal of 58 planes over the beches at all time during the daylight hours of D-dar. One grow of P-3ste was to de esoccinlly trained to fly in darkness so that it could take off before dam and roturn to base arter dark, and thereby provide cover for the assault area during the first hour of dam and the last 60 hour of dusk. Patrol aread for the fighters were laid out as follows:

1. Capri-Salerno: Seaflres at 12,000-16,000 feet; P-38's at 10,000-14,000 feot; A-86's at 5,000-7,000 seet.
2. Aeropoli-Fisciotte: P-35's at $10,000-14,000$ feet.
3. Salerno-Acropoli: Spitfires at 16,000-20,000 feet; A-36's at 5,000-7,000 feet. 61.

Assuming 75 ner cent serziceablity in all units it was estimated that the aix forces would have availeble for convoy and assault cover around 3əz singlemengine fighters, 206 twin-engine fighters, 32 night fighters, and 110 carriermbased Seafires, a total of 670 aircraft. 62 The number was sufficient for an oranary oneration but if the Germen and Italian air forces should react sharply tho number mifht well ve inadequate because of the limbed time that each plane could onerate over the beacher and because the length of the patrol was certain to result in carly wilot fatigue. For there reasonc it was recogniged from the beginning that the first major objective of the ground forcec must ve !fontecorvino airfield, three miles inlond, and that aviation eneineers would have to go ashore imediately behind the fround forces for the purpose of construeting lendiee strios in the Eeestun area. ${ }^{t 3}$ Further, it was plamed (assumint that Iontecorvino would be taken on D-day or D plus 1) to fly in fightor squadrons as follows:



Then estailished achore tirese units would be unaer the control of the 64tn Figater line, XII Asc. 65

This build-up was to continue steadily after 1 plus 6, proviued airfields were avallaole-mhica reant, provided the Naples complez wes in Allied hinds-mso that Dy D plus 28 ( 7 October) it was planned to have on the mairilend 36 squadrons of single-engine figiters, 7 squadrons of light nombers and figeter-bombers, 8 squadrons of gedium bonbers and 5 squadrons of Coastal hix Force nlanes, a total of 56 stuedrons. ${ }^{66}$

Of great inportance to XII ASC in its moltiple joo of protecting shipping and the becchec, coordinating with the ground troons, and directing air recomaissance was the decision to set up afighter director contral on shipboara. The USi kncon, flarship for the commander of the تestern Neval Fas: Force, weal chosen as the diroctor vessel ior all landbasedfighter aircrait in the assault aree. Haj. Gen. Jdwin J. Eouse, commanding RII ASO, 3 officers and 9 enlisted men of XII ASO, 1 officer and 2 enlisted nen of TBF, 1 officer each from the $31 s t$ and $33 d$ rithter Grows, 20 enlisted men from the 987 th Signal Eattalion, 9 onlisted nen from the 64th Fighter ifng, and 2 Ias officers end 2 enizsted men were to comorise the groun whicn would direct the figiters from tie incon.

HIS Hilary, uth 4 officers and 3 enlisted men from XII ASO, 64th Fignter Wing, and DAS, vould serve as the auxiliary figuter control ship, with USS Smmol Chasc as standiby. is soon as figntor squacirons were besed on the mainland, Generci House and ils control persomel would go achore and direct subsoquent figeter opartions iroa the headquarters of XII Asc, watch rould be established as close as possiole to the headeuarters of the Rifth Arwy. ${ }^{6 \prime ?}$

Tnasmuch as tho pribary role of MII ASU would be to provide the raxisum security for shipping and the beaches asainst air attaci, it was expected that very little eir effort for direct guport of ground troons rovine inlend would be availaole until after the nriwary ain had been attained. However, the 131th Observation Squadron was olaced under the control of XII ASO for recomnaissance dota planned and on call. Sactical reconraissance aircrait vere to csil the Ancon willo returning from their Fiesions, and detailed interrogation results wore to de sent of radio from Ileadquarters, XII HbU (Fecr), in Sicily, to the Ancon arter the planes had lended. Ground troops winch found themeelves in need of direct sumport by fighters and fighter-bomocss would send their requests for air essistance through their aivisional headquarters, wich would pass on the request to Air Support Control, Headquarterg, III A35. Fatacles were set un in various brigades and divisions for the purnose of comanicating with the Ancon. ${ }^{68}$

Alr-avy liaison was established by assigninc threo neval officers from the "estem Maval Tast Force to XII ASO. One officer trained P-5l

piloto in spottint procelure; the other two were to act on requests from naval sources for fighter cover and cells for spotting planes. 69

Arborne gerations. The fourtin major tast of the alr forees vas to tranmort and arop whatever airbome troops Ceneral in senhower midet decide to employ durine and after the assault period. as soon as AVidirous had beon projected, plang wore mode for drop $\operatorname{ling}$ one recimental combat tean (relminced) of the sed firborme Invision north of innles for the puroose of destroying bridees ove: the volturno hiver and othemise delayins enemy forees moving south. Subeouoatli, it was to wichdraw along high ground to the southeast or tovard namles for a function with the Sifth Army. Fhe e9d hed at once been noved from Sicily to Nairomen (Iunigie) for re-eadiphas; snd trainins: By 1 Senteaber its air mission had boen unde sifehtly more ambitious: it was to land on the night of $3 / 9$ September by gider and paratroon aroy near the Volturno, with the intention of seizinc and derondiag the tow of capun ma adjacent sirfields, as well as destroying the near-by bridges over the Volturno. For this
 Derriar "ing and 99 G-fo's and C-53's of the 5ed inins were to de enmoyeda total of 247 aircraft and 157 , iliders. Subsequent chenges in nlans re-
 and the 520 Winf for 181 sircraft for onerations on and after D-day. ${ }^{70}$

In prepration for theqe onergtions the 5lst and Ead anzs initlated refroger courses in njent fomation flyins, glider training, and parachute infentry dronoing. During the last wee's of duyuct the two viness distances, dron zones ( $\mathrm{HZ}^{1}$ s), lancinz zones, and objectives stmplatine as near as possible the ones which wowld be encountered during the actual AVALhions operetion. For examle, on 27 August the 53 Wing fles fron Kirouan, through the Eertia corridor, around Fantelleria to Eouficha, to Enfideville, and then aimulated dropping the E0eth Parachute Iniantry Pegiment on a solecten $D Z 2-1 / 2$ miles southwest of infidaville. On the Z3th the 59d flet to Itata mad returned through the lonastir corridor to the DZ. On both trins the crews were familiarized with naval visual and aural atds and with the employmont of Eebecca-Turexe (cround-aix comanications). On 29 and 31 August the two wings held combined trainins exercissa, the latter trip beince final aress renearcol for awainchis. on tais flight radar vas employed, and uso wan also made of three outhfinder aixcract. ${ }^{72}$

On 2 September units of ricd began moving to stagile airifelds in Sicily, and on 5 and 6 Septerber rod moved the combat echelon of the 830 Airoorne Division Erom Kairount to southorn Sicily. ${ }^{7}$

Fhue, well ahead of E-hour on D-day, diap had cominged the necessary plans and oreparations for earrying out its four main tas's of nertralizing the eneny air forcea, retardinf or preventine the movenent of axis forces into the assault area, proviaing air protection for the convoys, the asmants, sad subsequent onerations, and, finally, transportins and aropoine alroome troops.


 dozen other tasks incident to a successful AVALARCHE-aYMOH: the majority of thase jobs were the responsibility of Coastal Air Force which was to aefend the terricory held by the Allies (except on the enstem coast of Sicily there Desert Air Force had the responsibility), to protect the normal hediterranean convoys, to attack Axis convoys and naval units (with which job Strategic would assist then feasible), to carry out antisubraxine reconnalssance and striles, and to provide air-sea rescue facilities. All of these tasks had long been the normal responsidility of Coastal, and only in the matter of air-sea rescue was it necessary to make special provisions for coastal's operations during the invasions. 73

The first steo torard taking care of the crews which michat land in the Tyrrhenian Sea botween northern Gicily and Salerno wes to occuny several small islanas widch lay north of the Sicilian coast and which could be wsed as bases for navisationol facilities, medical supplies, rescue launches, etc. On 22 Aumast a manl naval party took over the two most important of these islends, Linari and Stromoli. ${ }^{74}$ Whe next step was to increase the size of the air-sea commnication and rescue organization whicin was elready sot w under the FaF 342 Group, Coastal Air Force. as finally woriced out, the plan rrovided that the dir-Sea Eescue Control at Hendquarters, 232 Grows and the airmsea rescua organizations of the Bizerte and Funts Sectors would remain the same as heretoforo, and that the followine aditional facilities would be proviaed: ${ }^{75}$

1. HiLS Antwern, evailnole $D-1$ to $\mathrm{D} \nmid 3$, operating in an area between $39^{\circ} \mathrm{y}$ to $39^{\circ} 30^{\prime}$ it and $13^{\circ} 30^{\prime}$, to $14^{\circ} 2$ [f.e., in a square located about half-wiy between Framani, Sicily, and Salarno/, with Whe and nedical fectilities, and with wireless and POL for use by rescue boats and planes.


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2. The Island of Ugtica, 45 miles $\min$ of Palermo, with two Controllers, Virs, navigational facilities, a cable to Palermo, nedicol sumblies, etc.
3. Fhe Island of Salina, in the Linari Grovo, some 30 miles
 as Ustica.
4. Honine and landing facilitios at Eemini and Porinzo in ini Sicily.
5. A control-center for aix-sen rescue in the AVALATHE area at Palerno.
o. Elleven marine craft, twelve PBY's, Walruses and :ellinetons For search and rescue, one squadron of Bisleys for search and dinghy droming.

Sing's other jobs were to neat requirenents for air transmartation, other than for cirborne troops, and to conduct strategical and tactical recomaissance. filr transportation wes the responsibility prinsirily of XII Air Force Service Command. XII AFsG was remonsible for the movement of all Air Corps passengers and fretght; it exerciscd a limited amount of administrative control over Ifediterranean Air Transport Service winich, since June 1963 , had handed the transovtation of all nassengers and freight not of air Corps origin; and it controlled the Ferxy Filot Service waich delivered sircraft to denots and combat unite. She setting op of mifeions, whether for ferrying or for the movement by air of passencers and freigit, was the resonnibility of mortheren ifrican sir Service Command. 76

In aduition to tho nomal fois of moving plenes, passencers, and freight it was expected that mpeial jobs would be required of the air
 ATEU announced that norovided the tactical situation will pernit and aircraft can be made availaolo the following air transoot services uill be operated" in support of the invesions:

1. imergency service for the dropping of supplies by parachute.
2. Juergency service ior the delivery of sumolies to an airfield 14 WITDSOOL [arca of the AMTOM assault.
3. Eegular service for the dellvary of ordnsnce stores.
4. Ifracuation of casualties. ${ }^{77}$

For carrying out these comitnents, plenee of the 29 squarons of Froop Carrier Comand and the two U. S. squadrons and one Far squacron of iorthest Afrion fir Service Comand would be available. To facilitate operations the Go, Troop Cerrler Comana, in collavoration with the AOS, RAR 216 Grom, was orlered to establish an adrance control alonzside Headquarterg, XII ASO for call iorvard of trangort aircratt, arrangerents for Iignter protoction, and for hondinf other metters incident to troop Oarrier activities in the forvard area. ${ }^{18}$

Fhoto recomengance would be handled oy the Jortiwest ifrican ranto Eeconnaiseance wing, excent for a gmall mount of tactionl recomaiscance which would be performed by tue lilth Ooservation Squauron, assigned to
 which had in it govon squadrons oi airoraft. A nev groun, the U. S. Etn,
 been taking pictures of Itelisn cities, haroors, railroads, airdrozes, and other installations since the days of the rundsien camoaisn. In fune end JVa." 3943 its plawes had flown 6 ro photograntic sorties, many of then orer Ital a majoritur of which were over maningend targete, and took thousards of
6ovirioluthr

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Aix Eervice Commad. 3amic to any air force operation, and emecially important in the lanching of an invasion, is the worl of the air service comman. XII AGO shonlied the U. S. dir force mbitit garoline and nows; built, imored, and manteincd its arfielis; administeredits airdrones; provided reatir and naintenance for its airaraft; and banded its Air Corps surplies. It ascmbled the hundreds of renlecemnt fitinter aircraft which were broufit into the theater on shitiboard. Its erection points put tofether the de-4 rilidere which woule so used during the intasion, erecting SES betweon the ridale of lay ane 1 Jul 194\%, and an edcitional 318 during Jule and iufust. ${ }^{\text {S }}$ futis was all nonconion, beind-the-line-of-scrimage work, but XIX dinc was also scheduled to narticionte
 Service irce Comand (one of the three lower echelons of inI inse) and subordinate mits of Sitnal Soxps, Orancnce, and Gurtermester Coron were to move frow sicily and Irad on jorth Jeach on D-day, and 440 bodies and 67 rehicles from an enginecr battalion, a cuurtcrinster commy and an oruncnce tomb dievosal squad were to move from i"orth firica and go ashore immedis tcls behind the ascault troops. Shese air service men were to construct teporary landine strivo, renair iontecorvino arfield, and move air force $n u m b l o s$ from the beacher to dums and from durps to airitelds so that the fly-in scuedrons of figiters would be able to onernte at the
earliest posslble moment. By $D$ plus lb it tas planned to heve some 3,500 air service troops askore. ${ }^{82}$

## Tast-Minute Chances in Aix Elams

Sy 1 Scotember, then, virtualiy all of the basic nlans for the role to be plazed by the air forces in AVALAGOE ned been completed, and the bulk of the promations necessary for the corrying out of the plans had been finished. Then, with alnost dranatic suddoness, cerbain of the olans and preparations had to be changed.

The changes stemed bac': to the middle of the sumer when "ussolini's تascist government had beeu overthrom. Fhereafter, the govornnent or
 plang wioch vere hastened by the allies' conowest of Sicily; and in Aumat Allied and Itelian reorosentatives began secret negotietions for an amistice end an Italian aurrender. On 18 Auqust General Iisennower was inforned bey the cos that, with the amprovil of the fresident nnd the Exime linister, he wes to send one Anericen and one sritish officer to Lisbon to report to the Dritish ambascador and to neet Ccaeral "C" [Cenoral Castollano, Italian army . General "C" would be given armistice terws. General 皿senhover was to decide the day and the hour on whici the end of hostilities would be amounced end in effect; the Italian government would proclain the surrender imediately after it hed been emounced by General Sistnhover. ${ }^{8}$ laj. Cen, unlter $s . \operatorname{Smith}(U . S$.$) , who was Generel$ Zi seniover's chief of gtaff, and zrigadier in. ir. Strong (Prit.) were sent to Iisbon. ${ }^{84}$


AAFRH-15

Progress of the negotiations during the renander of Aufust led General bitennower to the conclusion tant in all orobabllity an AllieáItalian armstice would be elped before 9 September, D-day for AVLAmCBE, and he Degan nating preparstions for tating quicis advontoge of a withCrawal of Italy frow the war by a stroke designed to selze the Fome area. Sucn a stroke appeared necessary to the Allied Contender-in-Cnief for sereral reasong. The German occuontion of Itely had becone so strone as to chenge naterially the estimates on which AThambit had been originaily plrmed. Large German reserves in northem Italy could be used ageressively whenever the German comander deaired. Allied air action could delay the novencnts of such reserves out could not completely paralyze comunications. Fihe Italians were mora frichtened of Gexwan strength and remrisals than of the threat of Allied invesion or even of Allied borbing. They were especialiy concerned awout fome and it appeared that they would not agree to an armistice unless assured of help in that area. It seemed to \#naninower thet it would be a good ganble to send one Allied division into the Pone area because the success of AVALAHME might turn on obtainince enouen Italian help to delay materially the movement of German forces into southom Italy. 85

On the basis of thene conditions Gencral ilseniower decided to ermay one airborne ditision in the Rome sector, brovided he conld be sufficiently assured of the good laith of the Italisns. On 3 Senteriver a short-term armistice was sicned at; Syracuse, Sicily, by General Snith for General Bisenhover and General Castollano for Warshal Endoglio. Trooo Carrier Gomand was fmedintely notified that on the nicht of D-I/D-day it vould

tranmort a tasi jorce of the gad Airworne Division to the Fome area. The opertion wes given the code name "GLiNTII, 86

On 6 Septemoer, after several days of conversations with frenerel Castellano, General iisentower cabled the COS the latest status of his plans for the invasion, Saych, kiready launched and moving ahead according to schedule, was to remein unchonged. AVatibilit olso wes unchenged excent In the watter of employinc airoorne troons. The 82 d Dtvision, originally scheduled to be used in direct support of $A T A L$ winds by beine dropped in the Camua area, would not be so employed but instead would be dropped in the Rone area on the night of D-I/D-day. The Iteliens, who were preparines airfields at Gaidonie, Littoria, Cerneteri, and Fírbare (all in the Fome complex) to receite the troop carrier planes and the paratroopers, would underteke to protect the fields agatnst the Germens and would orovide trensportation, supplies, extrit ammition, etc. The task of the sed would De to assist the Italians in preventine $n$ Geraan occupation of zome. 87

At 0200 hours on 7 septemver Brig. Gen. Haxwell D, aglor of the E2d and Dol. "illian C. Cardiner of Mroop Carrier leit Pelemo for Fome for the purnose of completing arrangements for the execution of GIsif II. In Fone the two officers speedily became convinced that the mission would meet with disester: tho Germans had built wo their strength in the Fome area and had stomed the flow of rasoline and munitions to the Itelian troops; the Italians had overcomitted therselves and were in no position to render effective aid to the airoorme troons or to suarantee the security of the airifields. ${ }^{88}$ fhis information whs transaitted to ceneral Ienihower on 8 geptcmbor. CIAL. II was promoty cancelea. 89

Thus on the eve of the launching of Avimaticie sil oi the oricinel olens were in effect with one excention: there woula be no droo of aircorne troops in the region of Capua for the purpose of stopoing the southwarà novenent of German reinforcements for the Salerno area.

## dir Conorions, 18 Apust-2 Sentembor

While praliminury talk between ropreachtativos of General Bisenhower and hurkhal Badoglio roletive to the surrender of Italy had been in process, tnat is, from 15 Ausust to the signing of the amistice on 3 Sentember, lihas's Tactical Air Force had operated on a very limited ceale. Its unito ware engeged in recrowing, reorganizing, anc resting in proparation for the intensive operations which would berin when 3arom vas launcied. Gais was particularler true of the fighters and fighterbompers. 90 Strategic, hovever, had been busily enrared in meshine
 other installetions. The outline air plax for AVadutute and the plen for thyow hnd provided that wo to 2 Sontenter Stratecic would atteck enemy airifelds in southern and central Itely with sufificient force to prevent effective ouilinan and with the object of forcing the eneng to move his

 hen this requirenent had been net the reminine avilable air effort was to be dirocted against eneme comancations and other suitable tergets, the attecks beintr deaigned to retord the movenent of reserves into the essault arecs and to isolatc the bettleftelas.

Strategic's stecda attaciss on Italian airäromes during the sumer tad put it in a position oj 13 Aveust where it did not have to concentrate on airfields out could divide its attacks between thet trpe oi objective and consunications facilities. As a natter ox fact, Strategic nad alread; neutralized virtunlly all of the more important airitelds in couthern Italy with the exception of Eogeien and its satellites; ${ }^{93}$ and from the ond of the Sicilim eamedge to the leunching of marion, almost
 tions and stations. II/F's constituted an unusually good type of commuications tercet in southern Italy. Eroa Manles south there were only four shops (one mador and three minor) for repair and maintenance of loconotives, and only $10 \mathrm{l} / \mathrm{I}$ 's (oxcluaing irindisi ane lecce, whion were of no importance in the strategic situation).

The grester part of the supplies which supported the Axis forces in southern Italy had to cone down the narrow noot from the northern part of the neninsula, wnether thoy oxiginated in the Po Valley-which contained three-fourths of Italy's ixdustrial installations-or in Germany. In movine dow the 3oot the suppliss had to pass bhrough one or more of tires ratiroad bottloneciss: Fone, Naples, and Foesia. If those points could be smashed the transportetion of ivis nen and material dom the Tyrrinenian cosst to the Foe and dom the Adrlatice const to the Heel would
 hit hard, but the $\% /$ at Fogria, although it had been tanaged, was still in full operation. In ordar to comleto the tart of cuttins comunications and at the sare tine to lay the foundetion for the job of isolnting the


# Jyrrnenan <br>  




CROTONE
$\sigma^{\circ} A_{A N D B O}$

:Rosafno

$$
\mathrm{F}_{2}
$$

contan - SEA


ATEE-15 two batilefields, Fogeia should be lmocked out end the rail lines from Pome to Waples, hanles to Bogete, laples to Selerno, rad Salemo to the Inster should bo meosed, with sone atiention being oald to a few ke: spota north of Nome.
incin sterted this final thase of the preliminary bombine of Italy
 and bridges of sincitola and Staletti nad competed the phoge on 2 Sentemer with a corios of B-17 attaces achinst $11 / Y^{\prime} s$ ot Bolzmo, Boloma, and
 days hifik's U. S. heovies flew alaont l, 000 sorties anu its mediumg (ooth Strategic and Wacticaj) ilev close to $2,000 .{ }^{95}$

The neaviest attact during the pariod was directed aginst zoreix, whtch was hit on 19 August by 646 tons of jombs drowned by 162 Fortresses and 71 Liberators, the mrinary tarset being the railroca junetion, and hit agan on that nd git (19/20 August) be ellingtons. As a result of these bonbings the lines to daples, fanfrodonia, and ari were cut, numarous hits vere scored on the $: 1 / \mathrm{I}_{\mathrm{i}} \mathrm{a}$ and on near-b; fnctor: builaings and tracis, considernble dange was inflicted on the loconotivo and remaix shops and on rolling stock in the frefght sidings, and the city's
 entercd Foria on sontemen it remorted tiot these two attacs,
 nassing all earlier estinates. 96

The seconl heryiest attack man on Pisc, delivered by 150 E-17's on 31 Anport, 452 tons of bombs beine droned on the $\because / Y^{\prime}$,
 was coused and, in eddition, the railvay linea to Jegiorn and Vada tyere cut.

Other ajor attac's bur heavies verv made acainet Sulmons, rexni, Dolognt, Concello, and Peccara. Sulmona was hit by 69 3-17's on 2 ? August: the $1 / T / s$ and loconotive remair shops vere severelü doncel, the min line to Pescars was blocked, and et least two emlosive stores were hit. Femi wa attacked by 76 z-l7's on 28 Aucust. The damee to rolline stoc: was heave and the Ine to the steel vorlas wes cut. the raid on Dologna ws carried out by ril Fortresses and reaulted in the destruation of warchouses, factoriton, cuaf rolling stock and darnce to the Feduan-renice rail line. Gancello was the target for 67 I-2s's on 21 acsust, the raijWhy station, air depot and $1 /{ }^{\prime}$ 's being hit, Fescara was visited by 45 Liberators on 31 ingast; there was a heavy concentration of hits on the 2:/F's end direct hits on the stetion, engine sheds, and railuay bridge.

Sroller-acole attack vore delivered by heories egeinst Aversa and
 supply line through the 3renner Fans. The latter raid, 2 Seotember, was erfective out of all proportion to the numer of planes involved. iwentyfour E-17's aromed their bombs on the bridge across the Elver Iscora, destroying the bridee and blocking all traffic from Gerany to Srento, and on tho onle other line ruming south to Merano, cuttina it. Cn the same day 10 other Zortresses cut the Tronto hignray bridee and the adolning bridse over tine sdice Eiver.

Turing the periof the nigit effort of Liverntors and Falifexes of
QUNTHETHithe



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PAS, Widie "ast wero directed ceelnst the If/Y's at Crotone. These ctbacts were on a small ncole but wero effectite in disrumins activity.

The more than 1,500 sortiee flown durins the period by mediums were, 1土n thoge of the heavies, directed principally against $: / \mathrm{Y}$ 's end industrinl ingtallations in their vicinity. The day attacirs were deliverca
 "'ellincton:.

The heaviest of the attacts of the medims acainst : $: /$ i's wos at Ealemo, which wes vonbed on Ifve difierent occasions by a totel of 139 "ellingtons and 112 U. S. mediums. Torre Annunziata's $M / Y^{\prime}$ s and steel works fint shed tho period in second blace, receiving three attacks by a total of 120 Nellingtons and 51 . S. mediurs, the Dettipegila $1 / \mathrm{I}^{\prime} \mathrm{s}$

 nomber sorties were iversa, Bagnoli, Cancello, Caserta, and Villa Literno, all in the laples area; Lenevento, nortifast of Lanles; Taranto; and Civitavecania. Fie yards at Cotenzaro shd Sayri, in the Foe, also vera
 follow-up to the aerere 3-17 raid of 19 nurgst.

Thexe vere no lerge-scale light boniver attacks on the Axis lines of comanicution during the period betveen tio end of the Sicilian cemaign and the onening of the Italian cumaign. The heaviest efiort againgt any one tareet was the bombing of Lameata rail and road junction, in the Toe,


Lhe ithter-bomor effort for the period included bombing attacis by
J. S. A-36's on the rail and road junctions at Castrovillari, Cetanzaro, Cosonma, hicsstro, Lamezia, und Sivari, the $: 1 / I^{\prime}$ s et dellaro and japri, and the tom of Cetraro (ail in the foe). After borabing, the A-30's usually strafed trains and transport vehicles. F-40's attacked bridges, motor transport ( $\mathrm{N} / \mathrm{T}$ 's), and barracis in the toe. At night, iraltamased I'osquitoes bomed and strafed trains, road traffic, and railway stations on a small but hifily cuccessful scale.

As a result of ILAF's attaces on the eneny's lings of commuication, which between 17 fugust and 6 Sentember involved 4,479 sorties floun and 6,23t tons of bomos dxoped, Allied reconntissance aircraft were ale to report on the eve of the launcing of $\sin$ Oint that the lines were blocied and all railuay movenent hed ceased at Fisa, Sulmone, Cancello, sversa, Eenerento, Zogeta, Ealurno, Peola, and Cetenzaro, and that at Rome's Iftorio $I / Y$ 's and Battipagila there ans limited activity uith repirs ctill in progreas. In addition, large quatities of rolline stock had been destroyed. ${ }^{17}$

The constant and destructiva attacks on the axia rail commonications forced the eneny to use more and nore ronu trangort into southern Itali. Lhis not only uithdrew transport veaicles from other swheres of activity cnd put an adaitional strain on fuel resorves, but the limitations of road trangort as compared with rail made the eneay's proolen of supply increasingly duficult. 98

A blity on enery airfielas such as had preceded the sicillan camatem
 the dris air forces had alreedy been broizen. It was necessexy only to


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give the group of fields around Fogeta a thorough going over and to hit again such already danoged fields as showed signs of reneved activity. On 25 Augant the Fogtit comblex received a severe pounding, As a prelininara, 140 Sar P-38's cais in on the dec:- and strafed growned ilxeraft ind road ance ratil tronsportation in the srea. Then cena $136 \mathrm{Bm} \mathrm{m}^{17} \mathrm{~s}$, escorted by other tigntnings, waich dropped over 240 tons of bno-pound Ge borns and 20 -pound fragnentation borios in the sonce of 30 minutes on satellites Hos. 2, 4, 7, and 10. In adjution to wreelcine havoc anons the airileld buildings, at least 47 aircraft were destroyed on the cround and 13 arnased. The only other attacks by Zormesses on enery eirifields were againet tho fighter base at Otoun, hit oy 76 nlenes, and the bomber base at Viterbo, attacked of 35 aircraft. At both olaces a number oi enew blenes were destroyed or drmeged on the ground crat at Fiteroo buildings and tacilitiss suifered nev dumase.

Heavies of the Minth dir Zorce cot in one attact acainst rirfielas, strining sari $A / D$; and Fuf Halifizes froa the hidale jast flew a few sorties againat Grottagle $A / D$ in the Heel. Mediuns made only one Jargescale attaces on an airfield during the period, that being againgt the fighter base at Grazzanise by 73 U. S. $-26^{\prime} \mathrm{s}$ and 32 U . S. 3-35's. Tigit eneñ aircraft wore destroyed and two daraged. ladiuns nide a lesser attack on 2 Soptemor when $12 z^{2}-25^{\prime} \underset{\text { bombed }}{ }$ Grotone airfield with good results.

In eddition to the two major onjectives, lines of conmunication and airfields, Lifis plones naid soze attention to eneny shipoinc. Fxceesses tere for fever thon during the Tuniainn and Sicilinn camodgas as the
 enemy was no longor engrged in roinforcing outlying positions with the excention of Corsica chi Gardinin. Only one vessel was claimed as suns (on 18 aucust, by $2-35 ' s$ ), but seven other vessols, ranging from thes to a dostroyer, were remorted damegea. One atteck was minde on a U-boat and sevoral night athacirg vero carried out seaingt convoys, but witaout Dositive results.

The Allied air attacks descrived aoove had been delivared an a neInsinary to two seperate and di stinct invasions of the mainland, out, Decauge of the location of tho areas to be asamulted, the ereater nortion or the attacis served to prepare the way simultaneously for boti invasions. thus the ernshing of commiction lines in and around looles and the battering of tho airifelde at Foedia vere as valumole to dingonit as to indinuinis. Hovever, it was n ceasary in the teed immedintoly precedinc sincon to initinte a special sories of attachs against enear positions in the Vicinity of Elegio in oxder to reduce to a ninimun the noility oí the axis to interfere with the landines in that area. these attacks were In sccord with the provisions of the atr outline plan for hations for the period $\bar{D}$ minize 6 to $D$ minus 2 , wich called for the nreventing of orcanized movement witrin the area, the breakin:" un and disorgantzing of such military Comations as might bo discovered, and the kystemtic rediction of fortifiod positions and gun eaplacennonts. 100

This phare of the air effort was hemdied Dy escorted licht botivers
 the offort botreen 86 surust and 2 scoteriver were: the bombing ot sun


on 26, 27 , and $27 / 28$ sugust; an attack on fortified nositions at San Giovenni ber 12 RaF Ealtinores on the Butin; and attaces on troop enncentrations in the Toe on 1 Scptember by 24 SADS Bostons and Ealtimores, 24 Fir Eatimores, and at U. S. Hitchells. ${ }^{101}$ on a Septemicer the scale of attacin was steppod un. Ine most successivl attacis vere carried out bex 45 U. S. B-2b's, $2 A \operatorname{SAL}$ Bostons, and 33 RAB Baltitores on enemi Army Headquarters at Rosarno and Orti (both in the ioe); by 45 J . S. A- 20 s and 36 Fli and SAIE Sostons and Baltimores on gun positions east of Degio;


The attacke acainst objectives within the imediento vicinity of the shyotis asmult area were on a siall scale; certainly there wes no attent at saturating the area. Fhere were two reasons for this: first, a rore concentrated attac: voula have given awne the exset soot at which twe landings were to bo rade; second, reconnstreance and stall-scale cormendo raids bai discloncd that the area within shich the Dichth inme would
 :ositions. ${ }^{103}$ It wes better for the allies to keey their Inaing zone a setter for infs speculation then it was to knock out the limited eneng denenges.

Huring the poriod from 18 zugut through 2 sootciber the German sir Force lad not been consistentiy ective. Its fighters and oficred some strong oboostition to the bomers and Eithters of Stratecic and Pactical as thoy swept over nfinland targets, ind its borbers had unloaded over


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several Allied targete. Howevcr, tho Gexmen fifhter reaction was alvays sootte to the point of beting ungredictable, except in the dempes and Fogric areas ware it was gexemily stron; and aciressive; and the pomber effort wes sporidio and usualle on a shall scale.
 planes, anu those thet were seen avoided contect. fellingtons, operatine et night, encountercd no orposition. Heavies and raediung on day missions met little opoosition oxecpt on the 19 th ad 20 th. On the former date, euring the attac: on Fopia, the first wave of havies was attached by
 Lic - 202 's, of shich number 34 vero destroyed and nine nrobabl: dertroyed.
 destroyed by air-to-wir bonbing. The second wave over the target an hour later was interceoted oy only three eneny aircraft. On the 20th one heave and ono medium attack on Oeserta each met 15 to 30 eneny nlenes which were oniy mildy azgreselve acainst the bombers but were very agressive agirst the fighter escort. Losses on botin sides were swill and avout equal. An attacle ceainst Denovento on the srme day encountured 15 to 20 enery planes, with losses egain kalanced.

Lurine: this neriod the GiF bonber effort vas directed egainst Sizerte,
 over the target in two wavce, the first containiag sone 40 planes and the second around 20 . lost of tin attackers were Ju-8, is, arparently fron the



TESTRHGHO
from Salon in southern Prance. In the two raids one EuI was sunk, one freighter severely dzaced, two other small vessels demaged, sose oil installations destroyed, and 22 militery personnel wore silled and 215 wounded. German losses totaled 14 plases, 4 to inlied airorait and 10 to AA fire. ${ }^{104}$

Darine the weel of $21-87$ August the mrincinal enemy defensive fighter effort continued to be nade in the lompes and Eogcta areas, egecially in the former there the Axie semed to hove concontratcd the vest nilots, Iven in these two thot " sectors, however, the defencive effort was neculiarly potty, cmorently becanse the enemy was not able to cope adequately vith more than one bomper formation at a time. For exempe, when mediuns attacined Villa Iitemo and near-by dversa the first wave encountered only half-hearted opoosition from 12 to 15 fighters, whereas the second save was aferessively attacked by 40 to 50 planes; again, hearien orer Canua were vigorously asseulteä by sore 45 eircralt orer a period of 30 minten, but nedurs over ncar-by Grazanise an hour later were on gaged by only 10 to 15 unegressive fikiters. However, two attacks over the droles area on 22 anc 26 iugust, woth in multiole waves, met with severe ounosition, atcin wave beine ageressively attacked by frow 25 to EO enemy planer. Sliflarly, four formations of bombers over Fortio on 25 fugust vere attaded by 60 to 100 planes, with somo nix-to-air bombirt. South of the daples-Forice aroes hlied attacts met little or no omosition, excegt at Calemo on the $22 d$ where mediuns wero heavily attacked by a larfe raxed formation of Axis plenes.

In the cowrse of these and other attacke between the 2lst and 27th,


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xAAS lost some 40 planes to all types of onery opmosition, wile destroyine 102 and probsbly destroyins 34 enemy planes in the air.

Inuring the weel the effort of the Axts bombers was difected largely afainst illifed norts. Sovercl raids were made on shipping and shinping facilities at Auguata by : :e-109 fighter-bombers, usually four to ef ght plenes participutins, but except for the dostruction of one tankex, danege was uninportent. On the 27 th around 40 enemy nlenes raided Alelere but caused no demage, The only night reid of the period was
 chasers were sun:, a coaster wes damaged, and milifary casualties were heery.

In an exfort to protect his installitions aginst attacks and nlso-. emparentif--bocouse he foresen an invasion, the enem made strenvous efforts to orevent Alled photo reconnalseance, both his aircr it and his fle being exceedingly astressive erteinst the ,laneg of win. 105

In the lest weel before whyonil was lanched, it was evident that the cnemy had concentrated his greetect fiftor gtrensth, his best rilots, and his hearient Ad defenses in the Hanles arec. A nart of this increase Whe at the emence of the foo from thich cll but a fer fighters snd a handful of A had beer witharam by the 28th. ${ }^{106}$ Shere was alno a decline in Gerion air stren th in the Eeel and in the Foecis area as both bowbers and fichters were noved farther north.

Alited plones over the iloples area vere fenerally attacked by from 00 to 75 aixcratt, which were usunlly agressite and detercined. is a rule thece attacis wore dircoted montly ofoinst fighter escorts. Bomiders


Which went unescorted finto central end northcrn Itely vere attacised on some occasions and on others vere left entfrely alone. jo attacks vere made against Allied night bombere, and fighter-bombers ran into oprocition on only atout helf their sortics. Reconnaissance planes, on the contrary, vere constantly nex-ssed. It seened evicent that the enemy was relatively magresslve in the defence of his inctallations becsure his air am hed seen deoleted by heary losses and because he wes conservine his air strencth for employment aginat an intasion.

Turing the period from 28 Aurust tarough 2 Sentember the eneay made oniy a sinfle heary bombing abtack. Sinis came on 39 fugast vinen more than 40 Jum 87's and Ju-88's hit the haroor at Aususta. Demefe wes alight. Augusta was also hit by figator-boroers on four occasions, while lessina and Cotania each were reided once. Little damage resultod from enve of theso attacios, ond in all of them the Axis loct nine planes. Four things were responalble for the scarciby and heamess of these attank: first, Allied bombins had ariven the bull of the Axis bombers from the Heel and the Fogeie comple: to the cafer fields in central nnel northern Itelü; second, the illied force's ilichter and in defenses of its key ports and installations were hi ghly effective; third, the ixis had too few bomers arailable to afford to risk the heavg losses that migut result fron a lare-scale attuck; fourth, the Germin itr Force hed never ncopted the Imericen systen of concentration of attac' for the nurpose oi saturatinf the onjective.

Doring the laqt fev days which nreceded the launchine of dymota the Axis sharply Increased its emplozment oi reconnarsance nlanes. Bore onameisumpith
use was made of fast fighter aircraft hor lonevinge recommissence than at any previous tice in the thecter. These olanes were based mostly in Sardinia, wherc they were within renge of Alifed activities. Counting all types of air reconnaiscance, the Axis sent out from soven to 14 plenes each day. Special attention was paid to sizerte; tae Foe, Heel, and Sicily vere well covored; fuä planes were noted as far west as flejers.

In all types of cerial activite in the six durs beforo Baymin the Allies lost 36 mlenes, vile the Germans and Italime lost around 120 aestroyed and 40 mrobebly destroyed. 107

Whe entire neriod vetween the end of the Sioflion carpaign and the launching of arifod vas notable for the weamess of the axis' effort agninst Alieat convoys. On a few occusions fighter-vombers, usualiy eight Fn-190's, attncicea shipping off the north and eust cosiste of sicily, and tuore weye a few other scattored reids over the western lieaiterranen which wore too teak and tuaceressive to do mach durnce. tut there was not a simgle large-scale rida against shimoing betreen the end of tho Slcilien oamorign and tho midale of October. 100

Pae inabilite of the ixis air am to strize hervy blows agoinst Alied shopoing and its failure to nut un an elfective defense avainst allied combere and fifhers as thoy bettered Itallan ardromes, oorts, i/Y's, and other installations indicatcd a werdily grovin vermess. The Grman and Italian air forees brd loct heavily In the Tunisian and Sicilien
 Fed kopt whe attrition rate be suootins dovn none 250 enemp planes, probably destrowns around 90 , and dameing more thon 100 in air battles,


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quivinaraital.
while another 250 hwd been rrecied on the pround by illied pombirs and etrafing of airdromes and londing Erounds. ${ }^{109}$ She enemy was further criphled $u$ daracing blows to ita sources of production, oil suppice, cne lincs of commacotion. The truth of the mattor ves that by I Septonbor 1943 the Aris air arr in the dediterranean was no lonrer the poverivi and agreasive force that it nad been bac*: in the vinter, nor could it expect anorcciable reinforcemate from either the zastern or "estern fronts, mere the Inftumice hic ite unds foul reppectively vita the fassicns and vith the sllied bombers opercting out of un. is a satter of fect, the decline in the number of 05 glonos in the lediterranean arom arourd 1, , 00 at the exd of the Sicflion cargaisn to around 600 on 1 September was due in part to itheramif froh the Moditerranean to the Lassian and :restern fronts. ${ }^{310}$.isth their air notential reduced to the extont of E0 to 200 sortios per day, ${ }^{111}$ ' the bent tiat the Germans in Italy could co vas to conserve their strensth in plones and crevs, equing sattle only at intervals and then the occesion secmed oropitious, and thereos ve at the noximu possiole strcretin wen the time come to defend againgt the Allied landing on the nainland, wica were so evidonty to be expected.

Anci tho dxif air arm on the eve of binind vas still a factor to be reckoned win, The enemy orcier or pattle, as of 3 Septembor, showed a total of 600 Geran and 900 Itainan aircraft of all tyoes (exclusive of trifinif plancs and nonoverational reserves), a grana total of 1,500 operationel aircraft in Italit, Sorutnin, Jorslen, and southern France. The principal Axis strensth was in Italy south of $42^{\circ}$ where the Geruans had GOMEIDEMTMEL

340 plenes, 100 of which tore Ionc-range borbers, end the Italians had 330, or 45 per cent of the total strength. Gf these 670 planes, 380 were singleengine firhters. Tho plencs in southern Italy were based meinly in the liaples and Foggia areas, the fightore and fighter-bombers being locatod in both corploxes and the long-range bombers at Foggia. There was a small close-support force of singlo-engine fighters and fijehter-borbers around Vibo Valentie and Crotone, but the xis air potentiel in Apulia end Calebria had a Irecdy bean linited by Allied attacis on airfields. In northern Itely the Gexnens hed 70 lonz-ranco bonbors and 5 bomber-recees and the Ttulians 300 planss of all types, ebout halif of wich wore single-ongine fightors. In sardinia the Germans hed 60 single-ongine fightors and 10 tac-reco plames, while the Itelicns hed 100 plones of rarious twpes. In couthern France the Gemens had so lone-rence and torpodo bocbers and 10 recomoissence bombers; the Itrdiens hed no planes thero. Donversely, the Iteliens hed aome 120 coestaltype planea baced on Corsica, while the Gemens had no planes on the island. ${ }^{112}$

To got a true picture of the Axic dir stroneth it is necessory to renomber that the Italien sir force, at boct, wes a poor outfit. A larye number of ite plones were out of detc, obsolescent if not obsolete. Its best pilots had begn eliminsted in the Dosert cometim and eftor, and its present flyors were not of hich quality, were not well trined, end, in meny instancon, were fex from enthusiestic. The Germens could count 113 on no more then e minima of help fror the Itelien Air porce.

Cn the ovoning of 2 September, thon, the N11ied forces in the dediterranem were ready to lrunc: the first assault a tainst the Italian mainland. The duys of plaming were over. The prolininary tacks of softonin; up the onemy's defensea, noutrelizing his air arm, interdicting

his lines oi comunication, and isolating the battle area vero done. In the eastern Gicilian harbors of Ausasta, Catania, Faoraint, and Feresa some 300 lending craft wero reedy, 7 den with troops, equinent, and sumplies of the Eigath Arur. In the Stratit of besgina naval vessol: turned noro than 125 zuns, Tonging from four-inch to 15 -incu, tovard the Italian toe; and on Gsite Eeg.to 410 field suns and 120 mediun guns of the Bitgith arsy vero mossed to gite covarins fire. 114 Snitfires of Desert Lir Force, tonis filled and guns lonied, stood resdy to tavo off to cover the Innoins; crait, the assault troms, and tho beaches. The first inlifea intasion of Either'r, rurope was about to begin.

## cimbinal

Ohspter III


3ixiphan, 3-6 sextember

Gromi and 1 in cocrations. In the early hours of 3 Sentember, under cover of naval bonberdment from the strait and henve artillery fire from the Sicilian coast, Zriting and Oonering troons of the 3ighth irmy crossed the Strait of lessing to the Calsumen shore, ariving at 0430 hours. On the rifht a Conadion initatry dirision landed at Fegsio, and on the ler̈t a Britich iniantriy division vent essiore ot Gallico and Gatona. Jnery opposition tras so weare as to be unimoortant, a feu Italian coastal troons putting w a tolem resistarce, and no mines or deaolitions wera encountered. The beachieads woro speedily secured. ${ }^{1}$

Fightors and ingher-bompers of har covered the crossint and the landings, and at tho snme time pate protsction over the Augusta-datenia are7. A total of 353 sorties vere flow, Fhe anemy's air effort against the invasion forcos was neglidible, and Allied airaratt encountered very little onosition from fi,phterg and say no long-renge conjers shatever. Onc $\operatorname{lle}-109$ and one recomenissanco $J u-38$ ware the total bac in the battle sres.

Lurinf, the dry bl F-AO' bomod and strafed radar stations at iola and Corbonara. When Gorisen fightar reinforeenents apeered on the $A / D$ at Comizinatello (east of Cosenza) the field was bombed by $69 \mathrm{B-a5}$ 'r; et the same timo Zaltinores attacged Orotone airfield. To hamper the enpm's



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efforts at bringinfin reanforcemente ond at the seme time to interfere uith his retreat, Iisht bombars and fighter-bombers suoot over the lower part of the Toe, bombinf and strafing gun nositions, convoys, rail and road croseings, bridazes, nad troon concentrobions, and rent as far north as Gamplatollo-Gips to shoot un a large colum of transoort venicles.
 aromad Ooscnza. ${ }^{2}$
 of the beaches and durime the day Socio airdrome end the town of Gallico were overron. 'he aray was still encountering only sliftht omosition, the main German forces in the sector not havinc been conbacted or located. It vas evident that the Gerisan General Staff had realimed that it could not dispose its forces in such a way as to prevent lanoings on the foe, and that from the beginning the onew's pinn of compign was to organize his forces in deyth and, by the use of denolitions and rear-kuard actions, to slow the Allied advance northwards es much as possiole. 3 loreover-malthoug the Alies wero not amare of the fact on 3 Cepicroer-me Germans ampreatly had anticipated thet the filies would invode the mainland in the Hanles arca and were conserving the bulk of their troons to throu eqaingt then operation. ${ }^{4}$

As far as the Allied atr forces vere concerned, the day's ectivitios In the Toe cane to an and with an armed-reconnaissance fighter mission which scarcied the roads on the enemy sile of the bomo Ine and shot un several shell groms of venicles. Fhat nicht Esip heaver bombers flew 16 effective sorties afainst Grottaplie airfiela. ${ }^{5}$


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On the sth end 5th the figith Amy mede steady mrogress, being held un only by deanftions. Amed Iffater reconnaissance flifhte revealed that thore were still no land forces of enowh size to resist the allied advance. Zy the end of the 5th the Elehth had renched a line Bagnara-Bogaladi-Bove Lariay, and 2,500 Italitu prisoners had been baben; but the German forces still declined to be dxam into a genuine battle.

Luring these two days the fllied air forces, in spite of very linited encos aix notivity and few targots, menaged to atay busy, on the sth inteasive cover was lanintained over convoys. Tighter matrols over the Strait encazed a nixed eroun of 30 Fir-190's end Le-200's and 202's attempting to ettacl the boches; whon the Soittiree aproeched, the eneny aircraft jettisoned their bombs and in the fight which ensued suven :e-002's were destroyed. The action ended enemy air activity for the day. Allied offensive air operntions were featured by e raid be 24 lifat borbers on a defonded position near Sam Stefano, in coordination with a successful eround asseult. Fifteen T. S. A-36's hinoered energ novenents by bombine a road junction at Catanaro rith good results, and lis rore attaciced the road net and railway station at Cosenza. Other then these two alssions 1iget and fichter bombers found no few good targets in the Foe that a number of rasis plenes, held in readiness for ceil, vers not sent into action. On the nifht of $x / 5$ Sentember a Conando brity was landed at iagnara uithout encounterins any opnosition. Invine the ntat axls air effort remined nealicible: a Dornier-217 was shot down over the Strait, unt no enems activity over Sicily was revorted,


On the bth, 24 U. S. 2-25'g effactively bombed the roade and railwhy at 3 riatico, out a bonber attack on Gosenga tha ajortive ouing to low clouds. $s y$ the nigat of the 5 th the weather had begun to deterionete, with clouds over the joe and rain over the Sicilian air bases. Few tarsets were avoiluole for the light bombers, the onf worth-wille attacis deinf dolivared $b_{i}$ a scrill number of U. S. A-20's and waft Baltimores acainst troop concentrations necr Laveang and Gioiosa, rearectively. Iuring the two days har's planes over the Toe sam nracticalle no fighters, and reconraiscance showed that all airfields from :hich the onenc could efiectively operate his figaters afoinst illied troons had been ovacuated. ${ }^{6}$

Furing the 6th tho ground forces adranced a little faster then on the three nrecediar days, capturine, Falai and Gioia on the vest coast and thrusting eastward to Qittanore (inland from Falra). Air operations in the battle arca, hovever, vere on a considerably reducsa senie. chere were fou good targets; low clowis prevented motogravicic reconnaisance of soverel ninfields under consideration for attaci and lifgt and madum nombers were not called out; and there were no convats with enery aireraft.

The 7 th saw enoufh increase in illied bowber activity over the ioe, Lovever, to juro to 1,011 the total sorties oy ficiters, fighter-bombers, end ligint Dombere for tha first five Gars of Bnyoin. Operations for the day were initiated of rittyhewns, two sauadrons of which tourca the Woo; finding no suiteiole tarsots, tnes browat bac: their bombs ard reported thet the area on the eneag side of the Ifne Pelai-Cittanova-Bovalino-Sicierno appeared deserted. The next mission was flown by $4 s$


O．S．A－SO＇e taich attecked two gan positions nesr Rosarno，but a nro－ fected coordinated growd attack did not naterialize，The remainder of the bonber offort during the dey was directed cafinet lines of comunice－ tion to the north of the battle zone．Orotone $\mathrm{N} / \mathrm{Y}$＇s were attacked by 36 2－25＇s witil excellent resulta；the north end of Catancaro was bombed oy SA Baltinores，the ouject beine to cause road blocks；find the Sreotsacee erea wos bonbud by 36 U．S． $3-25^{\prime} \mathrm{s}$ ，the road and railway beine cut and a oridge provable destrozed．Heavier ettacis were made on the road and rail uridges at saxif which felt the woight of 153 tons dropped ber 106 z－26＇s， end on the road net at Liumin which ves bombed bey $383-25^{1}$ e wh th 50 tons of explosives．During the nifint 16 Gyrenaica－based heaties of the sintin Air Sorce attacked the Innding erounds at Lanumia one San tancrazio．

Meantinile，the ground troogs continued to move ranidu north，the adrance beins aceelerated during the exaly morning of the eth wion a
 landing met uith no imediate ground opposition but nrovoica an envan air reaction on a anil scale．Lise standiag Soititire patrol over the beacnes cagesed two fomations of F゙n－190 ticater－comore uthout resulte．Inter in the roming，as eround operations developed，eir support was requasted to deal rith heari nortcr and gan jositions whit vore suellin：the new uridgehend；tio squadrons of riturawis dealt，roughly and effectively thitil these centors at resistance．As tie day adwanced，reconaiscance
 squadrons of hittyowis carried out bonoing attacirs on retreatine vontcles，and intemsive strafing，nartioularly by 0 ．S．s－s ${ }^{\prime} \mathrm{s}$ ，was continued until nightfall．

Luring the ag (Ghe eth) nedums dehivered severel sherp atbecis on lines of commications on the Foo and Sall. These hed e dual murnose: to Lntorfere uith the novenont of the eneny's cround troops vinich were puling out of the pos and the Gatanaro area, and to provent reinforcements fron noving in to oppose the ranidiy advencing minth Amy. Shirty-
 or damaging three of thew. Iitcholls elso want for the Jehurie roed net, as the had done on the oreceding day, 60 of then aroming to tons. The heaviest atheer of tha dow ras agoingt the road and reil brideres at danri there $105 \mathrm{E}-\mathrm{EG}$ 's uriloged IE4 tons of demolitions, holf destraginf; one brideg and cuttin: rail lines and roces. These attaces, while basicolly
 cs they were directed ensingt a trascortintion bottlined on the west coust between the Instev and she Galemo area throuch winch energ troons norines north would hrve to nass. ${ }^{8}$
 Catangero, nt waich noint it mould leave the narrot Toe fnd rove into the broader $2 n 11$ vere roveront vould be less restricted. the fishtis was ahond of rckedule; thet fact, nlus the continued enscnce of any cenuine ovasition $\mathrm{D}_{\mathrm{F}}$ German srowd and cir Iorces, hace it mmarent that the sritish rould continue to nove north at good soced, thas sivine
 could expect to lins un ith the iorces on the Foent an earlier dete than hed been honed for when the two invesions hed jeen plerned.


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# CUTMTDIMMHTL 

Onorations bri Stratecic. Thile the operitione on the loe were in propreas, twit is, vetween the carly morning of the 3 a and the night of the 8th of Scotenoer, becvius and nediuns of lime hed continued to smesh enemy airitiolds, lines of commication, and other ailitary objectives, Ifth by far the grecter nortion of the borios bein. dropoed on airdroaes and Ienoing grounct, particularly those in the Meples and Joesir areas. The cttuck rere primarily desiened to noutralize the axis air arm, in accord-
 that fron D winus 7 to $D$ minus 1 day anin nfat attacis on occupied girLields vere to de intensinied, farticulerly afinst the fields wint rence of the gelerno sexault area, "the intertion beine not only to force the enery air forces to evecuate tho airifalds, but to ..ate the latter unusoble for the geriod of the asseult operations." int:ough these attacks were designed as a prelude to AVALindan, they also afforded atronf sumort to sivirind as thoy served to provent any concentrotion of enery aircrart nithin ran e of that oneration.

For the ereater part of the period from 3 to 8 Soptenter the heevies and rediuns had to cortend sith bed veather, but in soite of this ther carried out their ansignvents argressirely and with $e$ hith degreo of success.

 eirflelas in thu drales erta. Fhotocruhic recomesissince shoneo that Doth fields yere ornterod and severe datage wes done to hancors and other inetallations; at cava eight aireraft were destroved on the grown. On the 4 th $192-17^{2}$ aropoed 45.6 tone on Derrucinn atritela (betreen banles


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And Fome), and P-Fu's succenfuil: strafed the lio. 1 gatellite of the Grazanise fighter base and the Ventotene Islrnd reamr station, the latter located west of lamles and Ischia. Durinct the night of $4 / 5$ Sentember Crameanise vas agein visited, this time by 79 wellingtons wich dropped 138.5 bons. Fesultis verf excellent, the domage inflicted including the destruction of an armonition durip. On the sth the weather vorsened, but In spito of it Creazenine took a thira beating then 103 z-z6's and 50 Z-2E's unlocded 180 tons of $G \mathcal{E}$ and fragrentation borbs, destroying at least eeven plenes and camginct 13 and rendering the satellitemaccording to recomaissance-unservicezole. the railroad briege, trecks, and roads at Iintuma (nortineet of imolem) were hit by E4 Z-Sis. The day efforts on the 5th wero completed vaen $153 \geq-17^{1} \leqslant$ plesterca Viterbo i/D with 100 tons, destroyine or demagins 13 aircraft on the around and leaving the field competely unserviceable. That nitht 48 "ellinetons attacked "illa Iitemo $: / 7 /{ }^{\prime}$ s with 85 bons, this being the first of three occasions botween 2 end 9 Sertember when insur's ".ellingtons doviuted from their propran of hittinf the enem's airlields. 9

On the 6th the main fightor fields around jroles again ebsorbed a severe homerinc. Grazzanise was bit by $65 \mathrm{Z}-\mathrm{ed}^{\prime} \mathrm{s}$, the Jo. I landing ground beirs the chief target; Gana was slufed by 112 3-35's; and Onoodichino tool: 40 tons, dropoed Dr $19 \mathrm{~B}-17$ 's. Ead weather keot 41 Fortresses from hitting Poinglifno.

As a resalt of the series of alr attacies on fields in the leoles area there were only suall, barely usable atrios avallable to the eneny at
quinerine

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Grazzenise and Copodichino on the eve of the levachine of AVainicist, while the ficid at Cepus was completele useless. The only imortant field in the Salemo sector, Yontecorvino, wes not attacied, the omission beires In accordance with the Air Plan wich vished the field left unscathed so thet it could be occmied and utilizci oy the dilias at the earliest posclible morent after the landings at valerno.
the 6th also vitnessed several small attacis on enemy sumfer lizos.
 holec in the clouds. Fleren Fortresses attacked the haxoor at Gaeta,
 night 43 :ellingtons aropped 92 ton on the $M / Y$ at iattionglia, the principal connunichtions center back of the dalmo beaches. The sorewat scattered nature of these attacis along the west cosst wes mrescriced not only for the purpose of hittine a variety of supoly points vut also to keen the Cernans in the dark as to the exact soot at whicu the coning invasion would tete place.
the full daylifint effort of and on the rith (exclusive of a series of attac's on oujectives bclow Calerno, wich have been discussed acove, was dirccted ageinst the important fighter and Ju-88 bases in tho Josmia complex. Three attoces were carried out, all by $3-17^{\dagger}$ s; 28 acainst the
 10. 2. The 124 bombers dropmed more then 180 tons of exolosives, inillcting considerable dumge on the fields and destroying 10 eneny aircrait on the cround. Hovever, dicpersal fselifics wero anorently so good thet losses tere relatively eral, and tre Axis bomoer force in



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the complex wis still strong enough to operate on a feirlic extensive scale. ${ }^{10}$ On the night of $7 / 8$ Fiterbo airdrome vas attacked by 46 of HASA's "wellingtons, these medius dropping bi tons of bombs, and the I'etaponto $\mathrm{V} / \mathrm{Y}$ 's and targets in the scenzenza area (doth on the Insten) were bombed by 13 U. S. B-25's.

Mr attacks during the day of the 8th (again exclusive of the largecon le attecin of mediums south of Salerno) were limited to two. One wen

 wiles southeast of Ene, Were the headquarters of the German High Commend was understood to be located. In tad raid $64 \times 2,000-10 ., 64 \times 1,060-10$. , and $1,17 \%$ x $500-1 b$. bombs were drooped, The 389 tons destroyed many buildings and did extensive done thrournout the tom; it vas resorted wy the Axis radio that Field Marshal Kesselring himself narrowly escened death. 11

On the alight of $5 / 9$, as the convoys carrying the Fifth Army's inversion forces neared the beaches below salerno, linin and war mediums carried out a series of moderately; large attacks against three promos of objectdives. One of these, bases and roads hsmalins enemy supplies and rein-
 objectives bolus: in and around iwletta, wavellite, and zotenva, the second Grown of targets wis at Morin and cate, both located alone. the Gulf of Chaeta were an Allied invasion was a strong possibility, and at porto on Ischia Island, west of Moles. There targets were attrered in part


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because they were enemy bhippine: bases, but primerily as a "cover to the reel landings. Five "ellinztons aropped 10 tons on Fornia, six dropped 12 tons on Borio, and four uropped 8 tons on Geeta. the third grour of targets consticted of the two principal centers of eneng transportation in
 attacked by 37 wellinetons wich dropoed 36 toms of bombs; the railrond junction st the latter by as iellingtons winich miloaded an eaval tonnage. Intege to rall lince, roais, ant rollina stoc: was sovere. Fineme vere


In addition to the heave and modium attecer descritied euvve, Fan and Shis ligit borberg of chat vere activo between the nighte of $4 / 5$ and $8 / 9$
 2attipflie, Zencrento, and lletaponto, and an equal number oi sorties in abteces on rail ana rona junctions and transport ve icles at iuletta,
 attacis the ones on 3 ettimglia anc Gabue vore directly in prematetion

 vere in promaration for a nrojectoú landine oz Sritich forces at parento,
 those at Auletta, Avelino, zenevento, end Potenza-uecause of the inlanc nosition os those plcesm-ivere of alue to operntions on the soe as rell as to the corine operations at salcrio anc at fercinto. 19

Lhe fir Plan hed cnviaioned a poentble need for ettacke on tre enentre Zardinian airfields in order to orotect the left flan: of the Eacmo-

 recomaissrance had revealed that tio londine grounds it inas, Canoterra, and Lonserrato, all in the couthurn half of the island, nad been renuered ungerviceajle oy the enent, and that the min Gemmu fitater bases apoarentle wero et Alghero/=crtilie snd Ozicri/Dniliveni in the north and were seing used minly to protect sxis sinipsing in thet sector. Eurther indication or the decline in importance of Gardinia as a base of operations for the enemy's air forces ves found in inlicd reports on the number of planes stetioned on the island. These renorts showed a steady decrease which, begiming before the ond of the glollion chbthen (wuing thich Alied boipers had given Sardinian ports and airfields a numoer of hard poundinss), was accelerated during the three weels before AVismoll. Thus, on 13 Aupast there were an incicated 115 Ins and 80 asm olanes on the
 (total 160); and on 10 Senteaver there were 70 G.'F nlenes on Fcrainity and Gorsicat rad an undetermined numper of $I A F$ planes which hed beon selzed by the fermans efter Itale surronder hed beon arnounced on the 8th.

As a result of the reduction of the eneny's strencth on Aardinis and hin removal to the north of wat olanes vera left, dint found it necessary to bomb onler ono area on the islud, Fovillonis londntingowa, north of

 glanes uromoed 20 -pound sroes and strefed ircrait and tarets on onnortamity. ${ }^{13}$

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Another han notivity during the neriod involved "niokelline" Lvery midht wellinetong carried out such operations, dronjins over 5,000,000 leamets and 40,000 ponters orcr citiea in Corcice, Jurdinin, and arthern 14 Italy.
 air eiforr was on $n$ reduced conle fror whet it had been in precedine weols. Trining into considextion the fact that smroximaty 50 missions
 centrel Itait, the ixis air defence crovers extroordnerlier wor, for 84 of tho 50 nissloas sev no enculy fisters whtsoever, 10 sav fifters winch althoug in a noestion to attect did not enome the bonbers, nd only 16 wero encred by the enemy. Aginst the 16 misgions winich were
 exceot timse of the misslons were wat, unagrescive, and on a sman scala. Fhe mismlons wich encountered hewy and aggesslve opposition were the two attac's on the Fogeis instaliations on 7 cnd s Bentenber and the ettack on Irascti on the Sth. The first formation over Cocrian on the 7th us not attocked put the eecond formtion ms assalled before, duxing, and after the ooth run by some 45 figtors of mixed tupos in a determined
 tifghore, somo of thich flred rocket-bupe shells. In snite of these enery efiorts, hovever, the inlicl planes clitned 40 onent ircraft destroyed to the loss of one Fortress. The attect on roc. is on the 8th by 3-24's called un sowe 30 to 40 encor fistaters, but Egatn the Axis suricrod
)


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heovily゙-losins 13 aircrast qithout shootine down a sintile Liberator.
 which atteoced ogstesaively; but 23 hostiles were shot down to the loss on one Fortress to riak. 15

Oficmsitely, the eneny curriod out only one attacl: of imortance, afainst Elcerte and Earriville haroors on tho late evenins of the 6th.
 craft, caue ofer the targets. Give on the raiders vere destroyed by
 the firing of a petrol dum.
i few small-sale fightor-bomber attacts vers carried out in the lessins area, but thene did no doange. ${ }^{16}$

It was erident that the enery was contiautas his nolioy of conserying his air strength wioh, cithough odaly denlated, was still capade of rentering valuable service in the critical days ahead. Sut in the process he suffered hoavily, both on the ground and in the air. In the weo: which preceded the lundimge at Balerno tho Axis loct some 90 nlenes destroyed, 15 mrobably destroyed, and 25 druaged in cericl combat. to those 140 nlemes must be added rnother 40 which were destroyed or onareed on the ground by allied bompers and fisetern. Ascingt the total Axis Ioss of mprosimtely 180 aircraft, the inlion lost (destroyed, missine, and dansed) around 70 planer. On the ground the eneny's installetions were hit by alwost s,000 tons of bonos whica cratered landing etrins and tanimys and srished cnd burned out honars and shons at tine airfielas
 manciondid


rail lines, rosi functions, nui oridees essential to the eners's onerations, and disrunteu the lines of comumicosion leading to the Salerno ared and the 3 ginth $A$ max aector.

The 4,000 tons dromed by Allied planes vere only the finel and intencive efiort, for between laril anä 8 Sentember 1943 funcis planes dunped 10,864 tons of bowbs on targets on the mainlemu of Italy: 10,563 tong on suilroads, bridees, and hishteys; 5,177 tons on sixdromes and lancing growes; 1,070 tons on ports anc peses; 1,060 tons on troons and fun positions; and 191 tons on industrici targets. Since the end of the Sicilien camprign alone sone 10,000 tons of bombs hed been dropped on Italit, and the Azis had lost (cestroyed, nrobably destroyed, and danged) on the grown and in the air wore then 600 aircraft. ${ }^{17}$.iven on the see the Axis could not hold its ow ocrinst the Allics, despite the fact that Allied shipping was on a large scale and was overeting on the opon sen whereas dxis shippine was on a smail ecme and was largely coastal. Setween the riddle of iusust and 9 Soptember the enemy had 4 of his shios sunit, 4 mrovably suri", and 27 damsed by fllied planis, while the illies hed only 0 ships sunc by enemy airoratt and submarines, silhough its Vossels traveled 843,000 shin miles durine the neriod. 18
che aituation on the evering of 8 September, ther, was this: SinO. had beon successfully launched and the Richth army had reached the zall and was continuing to wove steadily north; him's olenes hed not only covered the bixuvian lamdings and the operations which followed, but had mashed or mined dow the greater nart of the Axis air forcea which


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were tithin reach of Balerno ond had seriously dismeted the linea of comunication leading from central Italy ana the toe into the falerno area; and the AVLDNHE conroys, under the protection of Ditw's Coastal Air Force, vere approaching the beaches between Selerno and Paestun.

## ATHMKHAS, 2-31 September

D-Day. The more then 600 men-or-war, transports, and landing craft allotted to AVMaicili seiled in lo different convoys from aix terminel ports at varying times from $D$ sinus 6 to $D$ minus 1 . The mejority of the ships of the Southern Attec: Force suiled from Oran and Alyters and of the Forthern Attaci- Eorce fron sigerte and Tripoli; botu forces vere
 and remini. The vaxious elements of the invasion tleet came together north of Palomo, Sicily, on $D$ minus 1.

During the trip there were no afaston tactics, the convors running a straight course unter the vatchitul eqes oi aiteraft of hacin and Soericnn and Sritish warghipa. Lif of Felomo a novintional fix wos rede on tue 1sland of Ustice. 3y dusin of $D$ minus I ( 8 Sentonber) the convoys were ia position, had deoloyed, and had started their anyonches at o. noint some 50 miles west of the beaches.

Up to zaju houro of $D$ minus 2 the convoys had enjoved smooth sailing, the weather voing coon, and hed not veen subjected to a single raid oy enem aircraft. Jut on the niget of $D$ minus 2 and the artomoon of $D$ minus 1 they were athsoied five thas. mil of the attacks wore on a small scale. she first cene at 2530 hours on 1 rinua 2 when enery torpedo bonbers made


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four runs but without demeging the convos. She bombers aporcntive cene from southorn Frince, The other four mide were during the oftemoon of $D$ minus 1 , the inrst two (by five and efght Fi-IEO's, demerine an IoI and singing a British Lis, and the last two (by six and three bonvers) doine no damage desoite the omployment of rocket bomes. Cne enens aireraft was shot dom, 19

Just at the end of this series of Axis amopances the Alliod forces wero elcotrisied by an announcenent by Geaeral Lisenhover sit 1830 hours on 8 gonteaber that an armistice had been signed between the nilles ond the Italinn sovernment. Harshal andoglio had wanted to postrone the announcemcnt but Gencral wiscnhower bed rofused, anc at 1945 hours dadocitio carried gut his port of the areerent by proclaining the cescation of hostilities. 20 The nevs in no waw chenced the AVALAincun plans. It may, Lowover, hato hod a slifjutly edverse effect on the troons who went ashore in the first waves inasmach an wany of them quite logically expected a Firtually wopposed promonade and were not nsycholoficelly ready for the strone German reaction wich they excountered. Certainle the news aidu not unget the cerans, who obviously had been anticipotint; a defection on the bart of their bodifneed nartner an: were prowred to opposs tne illies bithout assictnnce from the Italians. The principal efrect of che announcenent seens to hare been to increase the clready heavg burcen being corne br dicif. Allied planos vere ordercd to treat ytalian planes as friencler unless tiseg took or threatened to take hostile action-a proceunure that mi, ht oasily heve given an initial adrantase to german or Fasciat pilots flying, Italian aircraft. This potential dan, er was made qumbunarint


Ereator by the fact that the IAN wes ordered to fly its aireraft to Allied bases in Sicily and jorth Africo and to give movenent oriorite to Gementype nlnnes. 91 Gonatal Ar Iorce, woreover, acouircd an extre unty: thet of holnin: to escort the dozens of Itelian varcinins whicn already were en route from tiels strtions to Allied noxts. 22

Setween 2000 and 3005 hows on the cvening of $D$ miaus $I$ the convoys, as they hoved townd the offrhore noints vare tho troons would enoari, were subiected to a new sexiss of air mids. From 2015 to 2005 ships of the Mortinern Attac: Eorce wero remeatedne attacked by sarall Eromps of torpedo bombers. Can IsI mas hit, vut the bomid failed to explode. Several ghios suifered near nissog. Eivo of gix Ju-bs's vere siot down Dy din firo. Lurine the attacis radio silence vas broven so that the ancon conld tate ovor control of the night fighters, and at 2205 planen of nomen enered and the raids coased. Froa zlCo to $2 \leq 00$ the southorn convozs were on tine recelflng end of to heavg ond five light attacher, One Lat was hit and thore were sone coswhtios. Five enene planos were believed shot down br ni mit figaters. ${ }^{23}$

A mariantionel dix on Cupt and a bright moan nided the ships as ther* noved into their final nositions, but tine fields ana the reported presonce of coastal batteries and rallwy artilior finlond aoout a aile fron the veaches iorced the tromenips to arop meuor sane 12 miles oftishore. :ine sueders inmedntely vegan to onon mas for entrance to tue Day". تie 03E0 (H-tour) all ascrult troons and necessary venicles vere en route to the benches. 84

Setwen 200 and 000 taere were no attacim 0 eneng oianes. In
fact, tho entire area frosicalerno to Peestum was susniciously quiet, the silence being broken only in the north where Iritish navil units were fixing in preparcition for the lanuirs of 10 Corpe. but the cuict was soon digrelled, for as the tropg amronched the beachen the Gemans rected them in inplish ovor a puolic adresm systen with the vords: "Cone on in and give un. Je have you covcrea! ${ }^{25}$ Irsediatcin, the enemy ovened atth artillers, monine gane, and morterg, his ine stribire all the way fron the beacines to the trensport lowerine points and cadsing some amage any consiacrable confunton cmone the lonaing, craft. FovertheIese, the troope hit the beeches, soilled eshore, fad oeran working inland.

3y urylicht the acceult forcen of Wh doms vere aporoacinnen their scheduled objectived but were still short of them. Whe 10 Corns, on the north, was also moving inlond out bas meeting bitter renistance. Cn the
 hecd, and noved north toward the mountain nosese betrees soicmo and
 tion at Wari but soon flixint ted it.
 land. "I Coros net its nrincipal oposition from at least iour crows of
 Iniontry during nost oi tine doy. Artillory cna gexil arms jire-mith help zrom the Uis gemmach on one occarion-finally blunted thece attacks anc by uifhtiell the two erssolt rectmonts of the 36ti livision hed reached their onjectives, beinf; inland as much as four to six miles creort in the eatreno south around zeroyol. The 10 Gorns encounjered

even nore determined rosistance but vith the heln of noval fire wes inIrnd ar averase of 3,00 yarde by the end of the day and vas attacitims tontecorvino airfield, one of its major oujectives. Fatrols had entered Eattixaclia but hed been forced out; other potrols were anproacinint Galemo fror tho east. We Fenders were in the jocera end facent passes, and the Commandos were wovine cest to Eal crino. 26 .

Neanhile, two neval diversion groms hid cariied out their assignments in the himles area. Cne groun landed forces on Ventotene Island, and artor none resirtance the small encur ferrison surrendered. Irrortent enery rodne focilities were teken over. Another grown deronstrated in the Gulf of Geoti, callins; out linited cneng air revotion-mnd allowine the Axis mens to report the rorulse of on Allied londiag in the erea. ${ }^{\text {er }}$ The diversion in the Gule of eacta was follow-m to the several small


Iarin: D-dag iII hir Support Comand orovided contimous at cover over shioning in the asecult arta and over the beaches, in accosience

 as esrlat wossible to as late as oossible, one sounaron of coitfires
 rossible to $0 S 00$ hours end from IEOO hours to as lato as nossible. Carrier-ionno circraft also mantaned stading patrols orer the northem flonk of the ascult ares. In peneral, the aleet six sum was responsitule ior natroling the northem ono of the Gulf of alerno and es fer north



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covered the center and south side with i-3e's flyine low covor, f-ze's neditur covcr, and soititren top covor. The Am36'e and f-3s'g flev from beses on the Cabnia Flain, tho suitfires fron fields in the Messina area, and the Seafiros frof carriers of the ,"estorn linal Fask Force's Carrier Zorce. 89

Seafires ilet their first artio in suphort of tire invasion at 0615, D-day. ${ }^{30}$ Shcily-based fighters did not arrimo until ainost an hour rifter
 more thon 200 sorties and the lattor alrost roo. 32 After aarl, Eeaufichtore took over, Feening two plrnes over the ares at all tines. 30 DurInf the ontire dey handrs airurift limited their onerations to protecting the beaches and the offisiore shinvinc, cna gave no direct sumport to the cround troops cos they consolicated the bencinicads ans moved slov:1w inland. 34

A aistinct difference of orinion existe ae to the amount end sercritir of enem rix reaction thich was grovored oy the lradings. the :istem -aval tasi Eorce hes recorded in its history of ividuruat that the eneme
 the ramin unlosding of tranoports and particularly of bonts at the becchen." Ecgiming ct approximately firgt ligin "requar and persictent wonbing and straing attachs effectively interrupted unloradias activitieg." Fhuse attachs, said the naval histori, not only foroed nersomnel on the vesches to tere corer but were also effective in driving certain of the unlocdinf porsonnel frow the beaches. Whe serle of these attocks hese never beforo and hos rover since been eawilled in this theater. 35 on


little enemy sction in the atir vas encountered on the first day"; uns's Laily Overntional and Intelligetce Sumary of 9 Senteriber shows only nodercte energ activity; its Corations Bullotin for the period notes that there was libtla dxis action on U-ciar, anu saws that the enemy enfared very seldom and come in only in small numers wich were effectivel: cealt uith; its Vectiy in Intelliforee Sumeny says thet ift is epparent thet the enozy dia not mke an extreme air effort bainct [the] Inndings'; snd in a meetinf held in tho domiralt: on 20 Octobor 1943 it ves stated thet the car's air efiont over the beaches was not severe, being confined to small tio and run reids. ${ }^{30}$

In spite of these afferences it ig not too difilcult to assess the scale of the eneryts afr activity on Daday, Bint hompened was that he flew enoug small missions over the beches cmi shiming, and flev then regularly enough, to beep the illied forces constuntle on the alert and to cause considerable amovance to troope engesedi in unlonding suoplies; but the sua totol of hir sorties was sucil, his attacts were not very agressive, and tho amore and casualtie? which he caused vere slifht, espectally in ther are considered in reletion to tho size and imortance of the lundinss. The Davis caronolog of the dat onerations contains 80 references to encay nir coctivita, but some of thea ooviousig are Gmlications; on the other hand it cannot be acsumed that evory German Rttack over the beachen and. the beachend was rmorted to the Tove. Frobably the Cormandint General of XII dSS wan clone to a coxrect figure When he renorted that ajout 30 enemy aircraft, in anall rows, vero seen over the beaches during the mornine; accoralag to ithin, about an


## THIS PAGE Declassified IAW EO12958


coual number annered during the afternoon and errly evening, ran smell number were in action axound 2200 hours. ${ }^{37}$ The live's renort at 2400 hours on I-day that ftherc were continual satill sc:le atteceis throunout the way seens to be an accurate statement of the nature and extent of the Gerunn reaction.
 wich appear to hove come larcely fron Senevento, northeest of Maplem. Ju-se's also particimatea, escectelly ovor the bescnes, and a few Ju-87's, .e-111's, and Lo-g1r's were reported. The orfein on the bombers in uncertein; theix princinal base, Fogeia, showed no sien of activity aurine the day, 39

The enery too: every advantage of speed, cloud cover, and the mountains back of the bridgehead so as to hit sherply and then run for it. He fought only when he had to, imoring, Alliad offengive mifsions and starine on the edge of the battle area mere the Soitfires could not nurnue him becanse of lac: of gasoline. hen he did attack he one in fatt and left fest. He opersted alnort entirely in smill froups of fron one to six plenes, and sowotimes hit the northem sua the southoxn nreas simultancoukl: in order to confuse allied fichters. ${ }^{40}$

 plenes orer the asseult areas at all times, and a lerge proportion of the raids vere broken wo or turnce baci before the attacting olanes could oithor bomb or strefe. For emanle, a reoort by the ownain: General




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et 0650 lar bombing, attack, $62 / 2$ tumed back by Spitfiscs; at 0730 one JU-3s over beach, tro bombs dromed; at oreo Spitilires eneased Io-2ly
 Fetrol situation beticicctore" In these actions tne fighters received very little asgistance from the fishter control center on tho gnean for the simple reason tict the ancon vean not gettine tane information it was supposed to ret. Hovever, the night ingaters fourd tinc seaiorne cor (Ground Control Interccotor) accurete wid helpful. Joti day fighters and ni ght figaters wero hadicarped br the restrictions waich the mountains placed won eround end see-lercl raos. 41

In suite or hovines to operx.te agingt scattered attacirs, hit and run tectics, and late warn $n_{z s}$, the Allied fighters manted to dertroy four enere aircrait and emace one, to the loss of two 1 - ES's in comat oxd one montifle in noncomoth. Sie effectiveness of the firnter cover, sumplewented oy naval AA itre and suoke screeta, in protecting sufping 1s Indeated of the fact that anring the ary only one sinin (an ain) was sun': and one (an Lsis) foncsed. it is not nossiole to entinate daricso to porsomel and eaubwent on chore, but there is no evicence to shov thit it was anythin: excert swam. ${ }^{40}$
inere this, of course, no tar oy wich the Allies could have accurately Ioroceon thit the Germen fir Force vould not put ip a muc. stronger effort on D-day; bat the Inch of prescience vos unfortunate, becuse the full
 that none were avinilate for direct suprort, ead it ise probeble that had there been ane form of dive dombins: or other atteck atiation ersploved by the Allies soon after dingigat, the hamesinc fire winch the


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Germans pleced on the beacn uicht have been eliminated. 43 Certainlir nlans cad been made for diroct air sumori, the arronewent being; that renuests comld be initiated $b y$ an, unit commander and be trensested back to the needquarters to mich an air support purty was attached (nomally a division headquarters); then the roquest, arter velne, approved by the cround Sorce cormancor, would be tronemtted direct to Air Support Dontrol. 44 Hovever, "oring to the complete comintment of figaters to the protection
 available" until Dplust 4 , as no Iignter escort wos erailable. 45 Even so, such an operation night have bcen rosatible without unine ifitor corer, inageuch as Ceneral Iisenkowar inforsed the cos during the day
 Iiftherme cus invonble tarets aevelop. 46

The activitiea of Strategic lir Eorce ${ }^{47}$ on I-day vere orimarila Eor the purnose of isolating the bettle zone. Speciflcully, Aisis hevies
 in the $\operatorname{in}$ inles-ifellino area but also to the southuest tomard sotenee and Earri, in orier to hincier the enemitg movarent of reiniorcements into

 force over the assault area bronuct of the distance of the beaches from the ilithter bases; the otier that the Germas aight throw in guin heary fround reiniorcements thet VI and 10 Corm nisint not be nble to hold and extond the as-aile-1on boachhead. whe ilurt oi these fers hed Iaraly



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of Gormax borbing: and strafing, to a ninimun. The second fear whs one wich would not reach a crisis until two or thred drys anter the landings; it wes the's resnonsibility to reauce or eliminete thet fear, for intir was the ouly Alised elenent which could rocch out and interdiet the lines over which the eneme's reinforcenents had to nass in order to reach the battle area.

Lurinte D-day Shists bombers hit three kex pleces alons the Germen reiniorcenent routcs. Gixtemen $3-17^{1}$ s arooned 172 tons on the briages over the Foltumo hiver at Sanua, nd nhotorranhic coverase ghowed that voth road oridges vere almont combetely destroyed, the ralluy brides severely cimped, and severnl roade cut. This raid uss of narticular interest and imporance as it was in the nuture of a "reslacement" ror tho mopr ant of the poratronor onombton wich hod been canceled in order to get mo the ciborife GIATI IL. Sixty Sortresses further hamered comunicstions above Walos by droming 180 tom on the Concello orfages between dana and the const, danging tre amroacies to the bridges but not hitting: the structures. Cne hunirod and thirteen $3-25^{\prime}$ g wiondei 170 tons of exnlosives on the $1 / / \mathrm{I}^{\prime}$ 's, roang and bridges in the fotenea area, east of the oridgenead.

Two attecis on eneng airflelds vere carried out during the dar.
 a landin; ground of Scanzano (on tin Insten), witioh had been discovered bef photo reconnaissance on the $8+h$, was attacked $0 y 67$ U. 3. 3 m3's winch orooped ghtons of bome. Fegults wero good and, in aduition, over Ioceia the Iiberators shot dom nine eneny plenes and at acanzano the


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Harauders deatroyed at least four on the ground.
Attack bombers and fightor-bomoers also were notive. juvelve i-50's attached I/T near Ajello (vent of Cathnaro) vituout success; but another 12 came over fife minutes later and destroyed sevaral venicles. One
 dromped $677 \times 40-10$. bowbs on : $: /$ In the icastro, Ontanzaro, Soveria, Cosenza, and Fogliano areas in the Ball.

Fo those I-dare onerations tho Gorman dafensive fifitor force ofiered virturlly no oprosition, the -34 nisaton orer Fogetis beinf the only one attabled, and evon there the 40 eneny airerart were not areressive. 48

Sie total cetivities of ithen's nlenes for the period fron 1800 hours on D minus l-wien the assamit confoye bean denloring for tie owroach to tho debariation pointsmoto nigitfall of D-day-when the beacheads had been estalished and all of aing plunes encept its nisht fighters and night dombers hed called it a day-were an iollous: henvy bomers, 121 sortles; mediva nomors, 248; light boubers, 75; rifhter ponbers, 230; nicint bonvers, 06 ; div if ghters, r7b; 0oastal, 63 ; voto recomaissance, 22; ni ght ingigtors, 36; total sortles, 1,649 . Fotal victories were: 14 cnemp planes destroted, 3 danged, A destroyd on tha ground. Losses vere: 4 destroyed, 5 missins. 49 As Genernl Zisenhower but it, Allied


Gomations on D plus 1 and 1 pias 2 (10-11 Sentrmbex). On 10 end 11 sentemoer the Eifth Aray consolidatod the positions raich it had won on D-dyt and continued to move glowly inland. II Dorps met almoct no onen:


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opposition on D plus I raile ite troons vere gettines into nosition to continus the advance, the German strearth being concenbrated on the left flans of the Allied line againat 10 Corns. Br tie end of Dolus 2 , Yi Corps' line formed an irregaler senicircle witil reached from just bolow Perano, on the zele Eiver, to iltavilla, ilvanella, and Zocondagnide (the latter in enear hands), nud wich then curved southoest end west to reach the coast belou heroroli. around lltavilla and focendasnide the troons woro inlane to a dopth of 17 miles. On 10 Dorns' front, fiere the mountaing vere closer to the shore and the Germen opnosition was tougaer, propress was slover and tao deepent penetration ras onlü five
 struesle. Nontecorvino airicld had bean overrm but the field vas not
 by hills. 51 Jurther to the wast, troops of 10 Corps continued to dean walerno, the Comandios moved norta of vietri astrice the coist rose, and whe Rngeas edmancod lio miles weat to fositano wile holding thoir
 counterattracks. 53

Seanwile, reinforcementr in men and guns had been nouring ashore and hundreds of tonc of sumbles nui eontrment hed veen lnnded over the opaches; tho enet: hed been denied the accert rools on both flarks; and the continuin: rood veather fave hone to the allies tint their rate of
 Lorcenents shich vere racing un fron the south and rolling dom frora the nortin, there dilied bombinge had not offect the cencelletion or the
pronosed aron of the 820 siriome Livislon at the ToIturno crossings around onve. In spite of the ecneralie satistactore siturtion the Allied leccers wero concerncd over two mettors; one, vitn :Ontecorvino still untonsle, fighter cover would have to continu to be furniched largoly on the old lontronge basis, witu ooscion some asmirtance froid
 beachacad, emocinlly new Faestum; tue othor, the Gemmen were anstn; their strengtil for n heare counterattres: alon;; the "ele Fiver and it was prodenationl viebicr the zifth arar us in suificicat strongth to hold tne attecis.
 the beacher, end suinving, to stribe at eneme tronsoorhation routes ona


 vorla be to icolate tae battle area and to dectron enem" perromel and equipmont. Lisective st 160 hours on the stin, Jtrateric :onld be reaponsiole for the area norta of the lino Battipecio-hotenza-tari, exchasive, end Tactical for all points soutin of tant line, inclurive. In bota areas the empasis of the air attac wes to be pleced on rose comancotionst used by the cneay to xeiniorce the butlle area. ©

Cn D plus 1 and $D$ olus 2 the reaction of the enew. $n$ air cmp was definitelur etrongex then it ind bocn on D-ant, Lie raids orer the asscult arca were still mostly seall in nubor of maxes nor riceion and continued to be of the "hat cnd run" varletw, but there rore more mismions than


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ETGURTCTED
there had been on the 9th. The attecks began at 0100 on the 10 th and continued steadily throughout the day until almost midnight; ware renewed at 0200 on the 11th and during the day were as mumerous as they had been on the 10 th; and before the end of $D$ plus 2 many of the raids were on a larger scale than they had been earlier, containing from 10 to 20 planes. the planes appeared to be coming in from Viterbo, Frosinone, and the Foggia bases, with a few bonbers apparently flying down from southern France. The eneny bombed and strafed, sometimes hitting the beaches and sometimethehtpping. Iost of the attacks were delivered by fighter-bombers but there was some dive borbing and some high-level bombing. In all, the enemy flew more than 100 sorties on each of the two days. Eren so, his reaction continued to be smeller and less severe than hei been expectet. NATAF's fighters met these attacks with the same system of patrols which had been used on the 9 th, but found the going tougher in the face of larger and more frequent raids. During the loth day-fighters broke up or tumed away nore than 40 raids, about one-fourth of which were major attacks involving more than 10 planes, and one of which was a fighterbomber attack fron 1005 to 1120 which rery neariy "saturated [Allied] defenses. ${ }^{54}$ On the nights of $9 / 10$ and 10/11 Beauftghters were in action and performed well, despite the fact that the mi gh ground to the east interfered whith radar coverage and reduced the anount of help which sneon could give. On the 11 th the enemy made a special effort against the Allied men-of-war, and with sorae success. The USS Sayanneh suffered a damagling hit from a glider bomb or a rocket borib ${ }^{55}$ which smashed into the Ho. 3 turret and emioded below decks, HIS Fiones was damaged by a


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near miss, and the USS Philadelphia was damaged by an enemy plane which crashed 15 feet away. The attack on the Saranach came at 1000 hours, at a time when the fishter cover had been somewhat reduced, partly beceuse 1t was desired to disorganize and delay enemy $14 /$ movement tovard the assault area by employing some fighters as fighter-bombers ageinst the movenent (this appeared feasible in tiew of the unexpectediy smell onomy air reaction), and partly in an effort to hold down pilot fatigue. After the Savannah was hit, normal cover was promptly restored and continued throughout the rest of the day.

On the 10 th Allied fighters inek 70 petrols totaling around 750 sorties over the Salerno area, and on the lith they flew some 500 sorties. To this total of 1,250 sorties the valuable Seafires added another 00 . For the two days the fighters destroyed and probably destroyed 21 enemy aircraft, while losing seven. 56

Doring the first three days of the invasion the alr cover over salerno, according to an observer, had been "excellent," the attack force in the northem area maintaining Habout 98f control of the air auring all daylight hours and a possible $90 \%$ control during the hours of darkness, " so that "rery few German planes broice through this cover. "57 The seme condition ampears to have existed over the southern sector. But the situation at the end of the ilth was not one to cause rejoicing at NAAF. Land-based fighter pilote were beginning to show gigns of fatiguem-brought on by frequent and long flights in cramped cockpitsmand accidents were increasing rapidiy. The number of operational Seafires had been reduced, mostiy as a result of mishaps not comected with combat, "for a sustained

air effort could not be kept up from carriers alone for more than 48 to 72 hours," and the glanes had begun to suffer heavily from landing acciaents. ${ }^{58}$ The German air force was making a stronger effort than on D-day to inflict heavy damage on personnel and equipnent while the filied planes were still having to fly cover from far-off Sicilian bases, all of those unhappy conditions were due, in part, to the fact that the dilies hed not been able to clear 'fontecorvino airfield for use. 59

The $D$-day and $D$ plus $I$ convoys had been scheduled to bring in some 1,500 persomnel and 250 vehicles of ZII ASO, 800 personnel and 150 Ventcles of RAT, and 650 personnel and 130 vehicles of XII Air Force Service Comand. Although some of these bodies and vehicles were delayed until D plus 3, most of them caine in on schedule. This personnel had two principal jobs to do; one wes to move air force supplies and equipment from the beaches to dumps and from dumps to alrfields; the other was to repair any danage which might have been done to liontecorvino airfield and to prepare temporary landing fields along the beachinead for fighter planes. Allied planners had recogntzed the possibility that Hontecorvino might not be imediately available to Allied planes and had planned that, if necessary, wp to six landing strips would be constructed close to the beaches. 60

At about 1700 hours, 9 September, a detachment of the 817 th Engineer Aviation Battalion went ashore from an LSS, found a bivouac area, and began searching for possible air-strip sites. The first field was gelected at 2100 but wes abandoned an hour later because it was under

fire. A second site was then chosen and before morning the engineers, working by moonlight, had chopped rail fences into slabs and laid out an emergency runway. Durins the night heavy equipment was brought ashore and. at 0715 on the morning of the 20 th work was begun on the construction of an airfield at Paestum. Drainege ditches were filled, trees cut down to clear the approech, a 3,800-foot zunway scraped, and a taxiway and enough herdstandings constructed to take care of one fiehter squadron-and by 0600 on the 11 th the field was operational. Before the dey was over four Pu38's had made emergency landings. By the ond of the litn the finishing touches had been put on the field and additional hardstandings had been buitu. 61

Leaving a part of its personnel to keep the Paestum field in operation, the remainder of the 817th began worik on the morning of the 11th on a second field, naming it "Sele. ${ }^{\text {P }}$ That night they were forced by pressure from the German ground forces to evacuate the site and to move back to Paestum, but on the mornins of the 12 th they returned to Sele and by working all day and through the night they completed the field early on the 13th. Whe following day they began constructing a third field, known as "Capaccio," which was operational on the 1.6 th. ${ }^{62}$

The fields at Paestup, Sela, and Capaccio all were within the Sele Eiver- dgropoli sector whind VI Corps. In the Salerno-Sele Fiver area, back of 10 Corps, British engineere of 10 Corps Airfield Construction Group were at work on at least two fields, one of which, Tusciano, was ready for use on the 11 th and another, Asa, on the 13 th . 63


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In spite of these strenuous efforts it was stili true that on the night of the IIth there were only two fields (and one emergency landinc strip) on the mainlend which could be used by Allied fighters, and that the fighters would have to contixue to meet the German air threat oy long patrols from Sicily and from the Testem Naval Task Force carriers. ${ }^{6} 4$
 lines of commuication and airfieids. On the night of $9 / 10,52$ :iellingtons attacked the Grosseto $\mathrm{H} / \mathrm{Y}^{\prime} \mathrm{s}$, causing fires which could be seen by the retuming planes for 100 miles , and U . S . $\mathrm{E}-\mathrm{SF}^{1} \mathrm{~s}$ and PAF and SAAF light bombers hit the road junctions at Aulette, airfields at Erosinone and Grazzenise, and road transport in the Auletta, Avellino, Cosenza, and Sapri areas. The attack on Frasinone was especielly importent because photo reconnai asance on the 9th had revealed the presence of more than 100 enemy planes on the field.

On the 10th $34 \mathrm{B-17}$ 's dropped 96 tons on the road junction at Isernia, 16 unloaded 45 tons on the roads and built-up areas at Boiano, and 33 aropped 100 tons on roads and bricges around Tillanova in the Ariano Irpino area. For the third atrateht day $\bar{B}-24$ 's of the Ninth Air Force hit the Foggia instaliations, flying 24 effective sorties. Medium also were active, 35 B-26's, bombing the Formia road junction, and two formations of $\mathrm{B}-25^{\prime} \mathrm{s}$, each of 36 aircraft, attacking the road nets at Castelnuova and Cassino. In all, the mediums dropped neerly 160 tons of bombs during the day.

Fightermbombers likewise were busy, U. S. A-36's and P-z8's flying 76 effective sorties against the main roads leading to the battie area.


Pilots claimed the destruction of more than 100 motor transports. Owing to Allied air superiority it was possible to send some fighters on patrol carrying bombs, the pilots being given their targets while in fliget; having bombed their targets they would then carry out their normal patrol duty. This type of operation was used particularly by planes operating over 10 Corps, whose channels back to XII ASC (Adv) and thence to XII ASO (Eear), on Sicily, were slov and uncertain. Through this system it was possible to obtain air support within 10 to 30 minutes after the ground troops had sent in the initial request. 65

On the night of $10 / 11$ the round-the-clock assault on the enemy's Ilnes of comunications continued. Wellingtons, Mitchells, and light bombers attacked the Fomia road junction, the town and road junctions at Auletta and Corleto, and road traffic in the Avellino, Arienza, and Cosenza areas. Such night attacks were particularly important at this stege of the campaign, for the enemy's main movements were of necessity made at night; and the bombers ${ }^{t}$ value in disorganizing transport schedules and in inflicting material damage made their attacks of importance out of all proportion to the scele of their efforts.

On the 1lth, SAF's heavies hit Benevento, damaging the N/Y's, roads, and $a$ highwey bridge. Its mediuns, in $16 \%$ sorties, pounded the road junctions at Ariano Irpino, Castelnuova, Isernia, and Mignano, A small FAF Baltimore force bombed Sapri. Daring the day fighter-bombers flew 141 sorties ageinet roads and road transgort.

That night (11/12 September) 96 Vellinetons aropped 187 tons on the airfield at Trosinone from which many enemy plenes had been taking off
for raids ageinst the bridgehead. 'his attacin was followed on the 12 th by a B-17 mission, 68 aircraft dropping 128 tons of fres and 300-pound GP bombs on the landine rround and instellations. fine two raids left Frosinone unservicoable, the field having 150 oraters. No other attaciss on airfields wore made by IATP's bombers during the next several days, partly because the Gia was not posing much of a threat and partly beceuse MAAF found itself wholly committed to close support of the ground troops. Other misstons on the nigit of $11 / 12$ were flown by $45 \mathrm{~B}-25 \mathrm{~s}$ (with Boston pathfinders) winich bombed the roads at Auletta and Corleto, and by ligint bombers which cortinued their nuisance raids with 42 sortios ageinst roads lesding to tho battle zone.

Other operations of ILA.F on the 10th end 11th included fighter sweops by P-4013 oper southern Sardinia, nichtly aickelling operations by Wellingtons, patrols by planes of Coastal over the corvoys wich were moving from horth Africen ports to dicily and the beaches, air-soa roscues, - and photo recon missions.

During the two days the eneny made no effort to intercept Masarts horvios and meaiuns, but employed his entire available fighter strength offensively against Allied ground forces end shipping. His bombers were similerly omployed, so thet there were no attacks efrinst allied ports snd insteliations outside of the battle area. ${ }^{66}$

On the IOth and Ilth HMW's airoraft of ell types flew more than 2,700 sortien, with dsy fizhbors accountins for glmost 1,600 of then. In comparing activities for the two days it is interesting to note that

the day flghters flew 895 sorties on the 10 th but only 682 on the IIth, whereas fighter-bombers which had flown only 76 sorties on the 10 th flew 141 on the 11th. ${ }^{67}$ HAMAF was beginning to ohift some of its fighters from defensive to offensive operations. On all of these sorties the Allies lost 15 plenes (destroyed or missing) and had. 3 danaged. On the credit side of the ledger Allied aircraft 11 sted 30 enemy planes destroyed in the air, 4 probably destroyed, and 6 dameged, plus an undetermined number destroyed or damaged on the ground. 68

On the 酎ghth Army front, on 9, 10, and 11 September, the British nad continued to push steadily northward, occupying Catanzaro and advancing to the area of Petilita and to just auove Hicestro. ${ }^{69}$ Their progress vas not rapid but the slowness of the advance was due more to extensive demolitions and Geman rear-guard actions than to any real attempt on the part of the eneny to put up a strong defense. The bulle of the enemy continued to retreat north towerd the AVAJANCHE area, ${ }^{70}$ the German High Command evidently believing that if the Allied troops in the Salerno area could be snoshed it would be no proolen subsequently to handle the BAYCo:N operation.

During the three days Desert Air Force continued to cooperate with the Eighth army by smasing at the enemy as he moved out of the Catanzaro area and headed toward Salemo. Througnout the day of the 9th, German colums hurrying through the narrow bottleneck below Paola were attacked oy light bombers and fighter-bombers, the planes being guided to their targets by the black smoke which rose from burning venicles. By the end of the day more than 90 vehtcles had been destroyed and 130 damaged, and


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considerable casualties had been inflicted on personnel. There was no opposition by the enemy's fighters to these attacks.

For the next few days DAF's cooperation with the nignth Army was curtailed owing to the diversion of supplies to the Salemo area, and most of its fighters, operating from around liflazzo in northeastern Sicily, wore used for escorting Allied bombers attacking lines of commoncation leading to the Salemo sector. The THehth was not neglected, however, for it was alded by mediums which attached Sapri, Corleto, and otuer junctions which lay between the Toe and Salerno. 1

Neanhhile, by the end of D-day General 3hsenhover saw no reason to believe that the enemy could force the Allied troops from their Salerno uridgehead, and he also saw the advantage of supporting both ADALAMGELB and the fastmoving BaYionti by a drive up the west coast of the mainiand. Consequentiy, on the 9 th he set in motion the already-planned Operation LIGBOif by starting a part of the British 1st Afrborne Division into Mercinto, and followed them on the 10th with ground troops of $\nabla$ Corps. there was no opposition as the troops went in, the Germans having evacuated the entire Heel. Italians actually assieted the invading forces in establishing thenselves ashore. The naval units winich transported the troops of $V$ Corps were escorted by figaters of DAF to the extreme limit of their range, but there were no incidents. ${ }^{72}$

The taking of Taranto was a valuable operation. It gave the Allies a very necessary port tnrough which the sighth army could be supplied, which, with the opening of the port at Salerno on the 11 th, ${ }^{13}$ considerebly reduced the Allies' great proolem of maintaininc its forces ashoro; it

further dispersed German air and ground forces and efforts; and it initiated a drive against two higaly important German-held centers: Bari, the best port on the Adriatic, and Foggia, the center of the Largest and most useful complex of airfields in southern Italy.

From Taranto the British forces moved repidly north and northwest, meeting no opposition for several days except around Gioia (between Taranto and Bari). ${ }^{74}$

## The critical Period in AVAT, ANCHE, 12-15 September

The German Counterattack. By 12 September, in spite of serious disruption of his lines of communication by constant bombing and strafing, the enemy had been able to bring reinforcements Into the Salerno area, elements of two Panzer divisions having come up from the south and units of two other Panzer divisions having arrived from beyond Naples. The two divisions from the south deployed against VI Corps and those from the north against 10 Corps. Moreover, desnite the advances which had been mace by the Fifth Army, the Germans still held a number of interior roads and many important heights behind the battle lines and so were able to concentrate against almost any desired spot. The weakest place in the Allied line was along the Self River where, except for one armored brigade (reconnaissance), there was a gap of five miles between VI and 10 Corps; on the 12th the enemy launched a counterattack in this sector with the object of cutting the Fifth Army in two.

During daylight on the lath the Germans knocked elements of VI Corps out of Altavilla and took it and Hill 424, a key terrain feature directly



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behind the tovn. At the same time they drove 10 Corps out of Battinaglia with heavy Iasses. On the 13th VI Corps attermted to retake Hill 424 but failed and was forced to organizo a defensive line along La Cosa Cree's, about three miles east of Altevilla. On the left flan: of 71 Coxps an enemy infantry-tank attack pushed the Ariericans back beyoud the Sele Fiver crossine, at Persano. On the right of 10 Gorps' froat the Germans drove past Bettipaglia and down the right banc of the Sele Fiver to 3ivio Cloffi where elements of VI Corps gathered together every available man, stopped the advance, and organized a defenstive line. In two days, along a twomile front, the enemy hed driven a deep and dangerous salient into the Eifth Army lines; at one point he was within three miles of the sea.

In order to hold the German thrusts, virtwally all of the avallable forces of VI Corps were shifted into the Sele River-Battipaglie area, and only a fer companies of beach engineers, some air service and fighter group ground crews, and other noncombat troops were left to hold the various passes through the hills which led to the southemnost part of the benchhead. ${ }^{75}$ An enemy attack on the right flan's of VI Corps could easily have penetrated to the coast and caught VI Corps in a pincer movement; at the same time, any further advance by the enemy down the Sele Eiver would split VI and 10 Corps, anc. night result in the elimination of the entire beachhead. The situntion was critical. And it took the combined efforts of the ground troops, the air forces, and the naval forces to arve the day.

## carmunimi



On the grownd 10 Corps held firm against enemy assamlts on 13 and 14 September, while TI Corps by extensive shifting of troops was able to strengthen the weakegt positions in its line sufficiently to throw back German thrusta which came late on the afternoon of the 13th and on the 14th. ${ }^{76}$ By the 15th the Gerinan attacks were lessening and by the 16 th the threat had passed. It is doubtful, however, if the ground forces could have held the eneny ${ }^{77}$ if they had not received heavy aesistance from sea and air. The naval forces ontered the fray in the early morning hours of the 14th when the philedelphte fired 355 rounds against tanks and machine-gun nests; during the afternoon the same ship fired 900 rounds against roads from Jooli to seven miles south. On the l5th the British battleships Marspite and Faliant, up from Malta, hurled tons of projectiles against eneny troops and positions, with the Fhiladelohia, Boise, and Layo adding hundreds of rounds to the total. The naval forces continued their Dombardment on the 16 th, but by the night of the $15 t h$ the German penetration alreedy had been sealed off and rendered an immobile target for heavt striles by NAAP's planes, and the surviving enemy elements had begun to witharraw. ${ }^{78}$

During this engagement-as well as in the entire period from Inday to D plus 10, during which neval gunfire was used against land targets-fine was controlled oy cruiser planes, shore fitemcontrol parties, Foyal Artillery Grasshopper planes, and USAAF P-5l's. The latter displayed such skill and jood judgment that the comanding officer of the philadelphia reported that their spotting "gave excellent results" and was "by far, the most successful method of spotting so far tried. "79

Atr Operations Durige the Gritical Period. The part played by the eir forces in breaking up the German counteroffensive was vital. Ifke the naval forces, hovever, it did not begin to throvite weignt directiy against the enemy's ground forces untill the 14th when the Tifth Army's position becsine criticsl, its operations on the I2th and 13th largely having been a continuation of the progran which it had followed on the 9th, $10 t h$, and 11 th, that is, cover by Lams for the beaches and the shipping and attecks by NASAF on lines of communication.

On the l2th NATAF's fichters fleu 650 sorites over the beachhead; the enemy flew about 100 fighter, ifghter-bomber, and bomber sorties over the area, but he was less aggressive than he had been on the 11th. On the 13 th $\operatorname{starar}$ flew more than 500 fighter patrols and armed reconnel ssance misgions over the bridgehead; the GAF flew approximatelif 120 day sorties and 40 night sorties over the entire battle area. During the two days Allied fighters either destroyed or probably destroyed between 15 and 20 enemy planes and damaged 6, while losing 5 destroyed and 4 damaged. 80

During these two days U. S. A-36's began to be re-employed in fighter-bomber raids against enemy trensportation. On the $12 t h$ some 70 A-36's made attacks on roads in the Sepri, Potenza, and Auletta areas; 86 vehiclee wero claimed as destroyed and 59 damaged. On the 13th similar attacks clained the destruction of 25 vehicles and the damaging of $40 .{ }^{8}$. Such operations had been contemplated from the beginning of the invasion. On the 9th HAC had infomed ITASAS and MATAS that, as soon as the enemy aix situation germitted, P-35's and A-36t, wowld be used in support of gromd operations in the battle area; that such operations would be wnder

the direction of MATAF; and that when the aircraft were flying in areas for which NASAF was responsible, operations would be coordinated between the two forces by IARAS. ${ }^{\text {s }}$ On the 11th some of MAMS's leaders had come to the conclusion that too many fignters were being used on defensive patrols in proportion to enemy air activity, that the P-38 pilots were beginning to feel that their efforts were "being wasted, "and that "we must be particuiarly careful not to allow the German to make us keen our entire force on a defengive role when half of the force will serve the sane purpose. " 83 The belief that a portion of the dafensive force could now be shifted to oftensitve missions no doubt was strengthened by the fact thet it had been found that the Spitfires could extend their patrols to 30 m-55 minutes over the beachnead. 84

The possibility of enploying a number of the fighters in this new role was further enianced by the fact that some of them vere now based within the beachhead. The first contingent to arrive consisted of 26 Seafires which landed on the 3,000-foot Paestum strip early in the afternoon of the 12th. Whe Fleet Garrier Force from wnich the Seafires had operated-and from whith they had flown a total of $/ 13$ sorties since the morning of D-day-mad withdrawn from the assault area at 1000 hours that morning, taking witn it the bulk of its plenes but leaving all that were serviceable, The Seafires operated from Paestua for only two days, departing for Sicily on the 14th. On the 13 th and 14th the U. S. 33d Fighyer Group moved from Slaily to Paestum and promptly vegan jumping enemy borbers as they came off their bomb run over the beaches. On the 13th two squadrons of Par Spitifires arrived; these, suppleaented by a

third squadron, apparentiy moved from Paestum on the lata and set up on the Musciano strip. Fnereafter, as engineers completed wore strips, the tignters moved in ramiday-so tat by the end of $D$ plus 7 ( 10 September) six squadrons of U. S. A-36's, six of RAF Spitfires, three of U. S. P-4U's and one of tac/recee Pr.51's were estainghod in the ATALALGhe area on the fields at Paestum, Fusctano, Sele, Capaccio, and Asa. 85 These fields were most useful, althougn their value was somewhat reduced by the fact that they were so extrealy dusty tnat deylignt take-offs and landings of ten hac to be made on instruments, and accidents were frequent. 86

On D plus 3 General House, Commaine General of XII ASC, went ashore Irom the Ancon and set up his headquarters near Pontecrganno (between Battipaglia and Salerno), but the following day he moved to a point close to General Claris's headquaters near the mouth of the Sele Eiver. From this soot he directed FAPAF's fighters and fighter-bombers as they operated over the beachnead and on close-support and intruder micsions. ${ }^{87}$ The 6人th "ing was leff in 10 Corps sector as a lower arectine echelon. 8

Tectical reconneissance missions, which were essential to closesupport, artillery-fire, and intruder missions in the battie zone, were carried out by the 3ritish 225 Squedron (Spitfires) and the T. S. 111th Squadron (F-5I's). In the beginning tactical recomeissance was perforned on a prearranced babis with a set number of missions, the P-51's woricing In the northern sector and the Spitfires in the couthern. ifter $D$ plus 3 (12 September) EAx 235 Squadron was affiliated with 10 Corps and operated under instructions issued by it; the lilth Squadron similariy


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operated with VI Corps. Up to six wo-plane missions a day were carried out by eachi squadron. ${ }^{\text {by }}$

Hasdr's bombers also put in a busy day on the lath, flying 56 heavy, 147 mediun, and 12 light bomber effective sorties ageinst road communicatione, and dropping around 400 tons of bombs. B-I7's hit the ilgano road junction and the Benevento road junction and bridge; 3-26; b bombed Isernia and the Formis road junction while Baf5's attacked the roads at Arieno and Corleto and the road function at Castelnuove, one-helf (72) of all sorties by mediuns for the doy being against Ariano; and Baltinores hit traffic on the Lagonegro-Avletta road. Dhring the night of 12/13, 65 Vellingtons hit the Cestelnuova road net, 44 S-25's attecked roads at Auletta, Potenza, anả Corleto, and 39 light bombers raidea various roads east of the battle area. A total of 224 tons of bombs were dropped during these night operations.

The attecks on the 12th and the night of 12/13 completely destroyed the Castolnuova road junction, cut the roed northeast of Fornie in three places, blocked the southern entrance to the 3enevento road bridge, and cratered the roads around Ariano.

On the 23th CiASF's heavies and medums lovered their sights a bit and went for the roads inmediately begond the semicircle of mountains which lay back of the Salerno plain. Torre del Greco, Torre Annunziete, and Pompeit-all on the roads from Iaples to Salemo-were hit: crorre del Greco by 33 B-17's with 99 tons, and Torre Annunziata and Pompeil by 36 B-25's and 35 B-26's respectively, a total of 7A tons being dropped on the two tows. On the main road south (which ran from Salemo through


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Eboli and Avletta to Cosenza) 39 B-17's dropped $1,060 \times 100-1 \mathrm{D}$. bombs on the Sala Consilina highway and the road junction and bridge at Atena Lucana, and 22 B-25's dropped an additional 51 tons on Sala Consilina while 24 light bombers attacked the Atena road junction.

During the night (15/14) 91 Nellingtons pounded the roads around Pompeif with 164 tons, and 23 3-25's (aided by Boston pathfinders) attacked the roads at Torre Annunciata. Farther south, a like force of B-25's and Bostons bonbed the roads and railway at San Severino. Meanwhile, 34 light bonbers carried out intruder rissions over various roads north of 90 the battle zone.

As the ground situation further deteriorated on the $13 t h$, jass prepared to throw its full strength against the enemy in close support of the Fifth Army. Its first tasl: was to oring in troops to strengthen VI Corps. The plan was to drop 800 troops of the 504th Feginent of the U. S. 82d Airborne Division on the night of 13/14 and 2,100 troops of the 505th Regiment on the night of $14 / 15$, both drops to be immediately behind vI Corps. On the latter night a second force was to be dropped near Arellino; its job would be to disrupt the movement of Gemnen troops southward.

The first miscion, known as GLAMT I (Revised) ${ }^{91}$ was set up with only a fey hours' notice, the 51 st and 52d Iroop Carrier ${ }^{\text {Wings }}$ being notified of the mission at 1330 hours on the 13 th, orders for the mission to be carried out being issued at 1830 hours, and the first planes taleing off at 1930. Three pathfinder aircraft led the way. They took off from Agrigento, Sicily, shortly after dukk with 50 paratroopers and Eureka


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beacons, Exypton lamps, and Hendie-Talkies (SCE-536's), anci dropped the paratroopers and equipnent squarely on the Drop Zone 3.5 miles south of the Sele Fiver. "̈ithin three minutes the Eebeccanarekas were in operation. Fifteen minutes later 82 0-47's and 0-53's of the 61st, 313th, and 314th Troop Carrier Groups began coming in from Comiso and ilioTrapani, ${ }^{92}$ most of them homing on the Burekas, and the paratroopers poured out. The bull of them hit within 200 yards of the $D 2$ and all were within one mile except 3 Company of the lst Pattalion, which was dropped 8 to 10 miles southeest. Not a plane nor a man was lost on the mission and only one men was infured, although more than 600 men were dropped. The paratroopers were taken by truck to a point near Albenella. After helping to stop the German advance the regiment went over to the offensive on the 17th and took sitevilla.

On the following night (14/15) Troop Carmier carried out the gecond misoion, GIart IV, whon 135 planes of the 61st, 313th, and 314th groups aropped 1,900 men with their equipment. The same DZ and same gencral setwo that had been used the previous night in GIAFII (Pevised) were usea, end the drop was equally successful. The bulk of the troops landed within 200 yards of the $D Z$, and all eame down within a mile and a helf except sone 40 men who were dropped 20 miles north. Sixty waiting trucks took the troops from the DZ to battle stations, one battalion being placed in front of Agropoli, one at Ogliastro, and one by Capacelo. The men relieved the beach engineers and service troope who had been pressed Into service for a last-aitch stand in case the Germans attecked on VI Corps' rignt wing(end who by now were tnree days behind in their joi of pngininmant
unloading ovex tio bcacies) and the tired and battered 45th IIvigion which had been in the line since the lendings, ${ }^{93}$

The third of the missions, known as Giair III or ATALANOHO Drop, which was carried out on the night of 14/15 in the vicinity of Avelilino, was not as successfol as the two drops near Paestun. Forty aircraft of the 64th Troop Oarrler Group heuled 600 paretroopers of the 609th Alroorne fegiment to a $\overline{\mathrm{DZ}} 2.5$ miles south of Aveilino and 25 miles due north of Salemo. Pifteen of the planes dropped their men in the vicinity of the DZ but the remainder of the troops landed anywnere from 8 to 25 miles away. The average distance from the DZ for all of the 40 plones was seven miles. The men landed in scattored and small groups. Lost of them came dow in woodlands and vineyards wich made it difficult for them to assemble. In adattion, most of their equipment bundles were lost, no nortars or bazookas ever being found. As a result only a small force succeeded in reaching Avelina. This force blew a hole in the main hegnway bridge and tnen took to the hills, as did the other groups. After waiting several days for the arrivel of the Pifth Arry the scettered elements moved south and bit by bit made contact with the advancing Allied forces. By 6 October only 118 men out of tne 600 who had been dropped were still listed as killed, captured, or misaing.

The lack of success which attended the Avellino drop resuited from a combination of circumstances. The limited range of the 5 G transmitter and the Aldis lamps which the pathfinder force set up prevented all but a. few of the aircraft from receiving the necescary homing indications;

high hills about the DZ prodably further shortened the renge of these ingtruments. She planes found it difficult to pick out the DE area because of a similarity in topography among several valleys and ranges of nills in the vicinity. It was not possidie to use visual ground signs as had been done in the two Salerno drops wnere-wecause tae area was in friendly territory-a large lighted "ry" had pointed down-wind to the DZ. Liost important of all, perhans, wes the fact that the mountains around avelino forced the troops to drop from helghts ranging from 3,000 to 5,000 feet (chereas the Salerno drops had been made from 600 feet), which naturally made pin-pointing impossiole. ${ }^{94}$
so enemy air opposition to these three missions showed up, although during Giair I (Revised) an enemy plene was over the area of the De for 30 minutes. Lor was any flak encountered, and no smail-arms fife except on the Avellino drop where a few planes were noled. Hore important was the fact that there was no fire from friendly guns as there had been during the paratrooper and glicer operations at the opening of the Sicilian campaign. ${ }^{95}$

The results of these several drops caused General Sarshalt to express the feeling that the allies were not sufficiently developing the airborne facilities available to tnem. arhe Sioilian and the present campaign, " he said, limight have developed very differently if we had been in a position to hondle simultoneously more than one airborne division." He felt-and Generel Arnold agreed-othat the Germens were particularly afraid of Allied airbome operations and that such operations

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would help 1 mmensely with OVEFiCRD. As a result of General. Harshallis statements the CCS instructed the Combined Staff Planners to reconsider the Anglo-smerican program and policies for the organization and employment of airbome troops and their supply by air. ${ }^{96}$

On the $14 t h$, as the ground situation entered its most critical stage, NAAF went all-out in direct aid to the Fifth Army, Its bombers, fighterbombers, and fighters flew more than 1,900 gorties. NATAF's fighters and fighter-bombers flew more than 1,000 sorties on patrols over the bridgehead and the offshore shipping and on bombing and strafing attacks against targets of opportunity in the battle area. In the latter attacks the U. S. A-36's destroyed 69 venicles and damaged 35, mainly around Eattipaglia and Torre Annunziata; P-38², sone of them operating as dive bombers, ${ }^{97}$ attacked vehicles, roads, bridges and yards in the same localities and at Auletta, Eboli, and Avellino; P-40's bombed the docks and railway at Torre Annunziata; and fighters of DhF, sweeping north from new bases at Reggio, strafed transport around Eboli. In all, the fighter-bonbers dropped 159 tons of bombs during the day.

Heavies and mediums-with most of the heavies flying two missionsdivided their attention on the 14 th between roads leading into the Salerno area and German concentrations of troops and supplies in the BattipagliaEholi sector. Thirty-four B-17's dropped 102 tons on Pompeii and 37 more dropped 108 tons on Torre Annunziata. More than $100 \mathrm{U} . \mathrm{S}_{4}$ mediums pounded the roads leading northwards to Avellino and southeastwards to Auletta with approximately 140 tons. Ninety-nine B-17's, $154 \mathrm{~B}-25^{\prime} \mathrm{s}$, $98 \mathrm{~B}-26^{\mathrm{s}} \mathrm{s}$, and 36 BAF Beltimores blasted the area around Battipaglia and Eboli with 497 tons of explosives. In all, NAAF's bombers flew more
than 700 sorties during the day, exclusive of night missions.
During this stage of the operationsmand through the 15th-mirategic Air Force was a tactical air force, for its henvies and mediums operated directly in cooperation with tine ground forcea and its attacks were purelty tactical in nature. Some of its planes bombed so close to the mifth Araly that "a miss would have been disastrous. ${ }^{498}$

Outside of the pattle area, along the Adriatic coast, $19 \mathbb{B}-241 \mathrm{~s}$, formerly of the IHinth Air Forcemwhose heavies had been transferred on the 13th to the Twelfth Air Force ${ }^{99}$-mit the Pescara $\mathrm{H} / \mathrm{Y}^{\prime} \mathrm{s}$.

On the night of 14/15 NANF's Fellingtons launched thetr heaviest attecs to date in the central leaiterranean when 126 aircraft continued the relentless assault on Battipaglia and Jooli by dropping 240 tons of bombs. B-25's also hit wholi and bombed roads around Aulst ta and crotome, while 11 ght bombers continued their intrader missions over roads leading to the battie area.

The attacks of tine 14 th and the night of $14 / 15$ were bighly successful. The railroad lines from Torre Annunziata to Gastellamare, Salerno, Taples, and Cancello all were cut by dirsct hits. The highway to Naples northwest of Torre Annunziata was blocked, snd roads to Castellamare and Iaples Were severely dancged. At Battipeglia the Haples, Hetaponto, and Reggio rail Innes were cut, the roeds to Taples and Eutino were out and the bridge destroyed, and the roud to Metaponto was severely danaged. 100

The bomber migsions on the 14th-ws well on the 12th and 13th-mint ainost no eneny opposition. B-25's orer Battipagita on the 14th encountered froz 10 to $1.5 \mathrm{Me}-109^{\prime} \mathrm{s}$ and shot down two of them without loss, and a "ellington over pompeif on the night of 13/14 tangled with e nigit

fighter Ju-38 without results. Otheruise the sllied bombers went their way umolested. The enemy was using all the strength he could muster in offensive missions against the Tifth Aray and its shipping, leaving his own troops completely exposed (excent for defense by sose flak) to MAAF's round-the-elocir assault.

On the 15 th liAAF flew about 1,400 sorties, fever than on the previous day, but in the battle zone it "threw the book" at the enemy. The combined fighter and fighter-bomber sorties over the battie area totaled around 850 of which only about 300 were beach patrols. These patrols met about 75 enemy sorties, and in a serles of scattered combats shot down seven Fit-190's, probably destroyed tiree, and daneged two, white losing one Spitfire and one P-40.

The 549 fighter-bonber sortien were flown by $317 \mathrm{~Pa} 38^{\prime} \mathrm{s}, 175 \mathrm{~A}-3 \mathrm{~b}^{\prime} \mathrm{s}$, and 57 DAF KIttyhawins, the Iatter operating from the recentiy occupied field at Grottaglie, in the Eeel. In all, the fighter-bombers dropped 171 tons of bombs, and they hit fust about every square mile in the Salerno area, with gpecial emphasis on the \#boli, Battipaglia, Avellino, and Auletta sectors. Venicles, troops, gun positions, and roads were boribed and strafed. Sore then 300 vehicles vere destroyed, and on the site the A-36's shot down one enemy plane, probably destroyed another, and damaged two more without loss to thenselves.

Bombers of NASA5 and NATAF fiev 92 heavy, 250 medium, and 88 11ght bomber sorties during the day, dropping 483 toms of bombs on battiefield targets and lines of commaniontion. The $3-17{ }^{\prime} \mathrm{a}$ worked on the 3attinagliaEboli road and the roads at Torre del Greco; the B-25's attacked the Torre Annungiata road junction and troop concentrations at Roccadaspicie;

the B-26's hit targets on the Battipagliamjboli, Serre-Eboli, and AulettaPolla roads; and the light bombers attacked troop concentrations at Iboli and in the areas east of Altavilia and north of Doceadaspide. On the side, 2 b Litberators attacked the $: 1 / Y^{\prime}$ s and highway at Potenza. Strategic on the 15th, as on the 24th, was a tactical air force, operating in direct cooperation with ground troops. 101

On the night of $15 / 16,13$ Gellingtons kept wo the terrific pressure on the enemy by dropping 240 tons of bombs on the roads at Torre Annumgiata and Pompeii, and 43 U. S. mediums and 49 PAT and SAAF light bombers struck roads in the battile area. 102

The results of the intense and concentrated bombings from the 3 3th through the ltth were profound. They covld hardly have been otherwise With both Strategic and ractical throwing their full weight gainst the enemy troops, transport, and supply basea in the limited area around the Salemo battiefield and against lines of comonication close to the battle zone, with more than 3,000 tons of bombs betag dropped by ofer 2,400 planes, with most of Strategic's bombers flying two sorties a day at the neight of the air offensive, and with MATH's airoraft pouring onto the actual target areas an average borib denslty of 760 tons per square mile. Whole towns were destroyed, roads and railroads obliterated, and troop and wotor transport concentrations sererely damaged ormin many instances-m wiped out. The heavies even attacked repeatedly enemy forces immediately opposite the Fifth Amay. Miever before," said Headquarters, HAC, "have bomos been emplozed on a battleffeld in such quantities or with such telling effect. "103


The Germans in the Sele Hiver salient could not stand up under the combination of bombing, ${ }^{104}$ naval shelling, and ground fire; and by the end of the 15th their dangerous attack had been blunted. Their troop and vehicle concentrutions, particulerly in the Battipaglia-5oli area, were so battered that it was not possible for them to continue their drive against the Fifth Axmy. How mang enemy troops were lmocked out of the tighting by LAAP's planes cennot be determined, but reports indicate that over 300 vehicles were destroyed and almost 200 damaged by fighter-bombers alone. In general, the lines of communication leading into the battle zone were so thoroughly interdicted that bry the end of the j6th the flood of Geman reinforcements which had been coming down from the north and up from the south had been reduced to a trickle. Specifically-nto use e fow oxamples-othe Japles-Salemo roads ane railroads were virtually closed to traffic as the result of severs damage in and around Pompeli, Torre Annungiata, and Torre del Greca; the main tionemaples railroad tracks were cut and the coast roed was blocked; at Potenza all through-lines were blocked and the tom itself-not easily by-passed-was badly gnashed; every road out of Castelnuova was wrecked; the Capua road bridges were broken, the railroad bridge damaged and the rail lines cut; the iuletteLagonegro road was no longer usable; while uithin the battle area around Battipaglia and Eboli there vas the geverest damage to roads, railroads, and bridges-most of the lines being completely unserviceable-as well as to military installations, rolling stock, $1 / Y / \mathrm{s}$, barracis, and the towns themselves. 105

By the moming of the 16 th the enemy was pulling back and the situabion

was so generally inproved that the Fifth Army was preparing to go over to the offenstive. 106 The beachhead was secure and the Anericans and sritish were on the mainland to stay. But it had been a close call. The Allies had been as near to a serious defeat as they would ever be during the long Itallan carmefgn, and at a time when a setback wowld have had the most unfortunate consequences. It had taken the combined. efforts of the ground, naval, and air Porces to turn the tide. The air forces had played their part well. General Spaatz feeling that the operationg had demonstrated "to a greater extent than ever before the importance of Alr Force flexioility in organization and operations and the decisive effect which air power has in comblned operations. ${ }^{107}$ The value of NAAF's contrioution in this most critical pexiod was empessed by General Alexander, who wrote on 17 September that General Clark had asked him to convey to MAS the sincers thanks and apmreciation of the Fifth Army tor tne "magniffcent air support" which had been given to the ground troops. It had, said General clark, "contributed much to the success" of the ground operations, and "all were most entnusiastic in their acclaita of the close and continuous support which has been given them oy the Air Forces. 1 Gen. Sir Herold ilexander added words of praise of his own: ${ }^{108}$

The trenendous air attacis added greatly to the morale of the ground and naval forces and, in addition, have infilcted on the enemy heavy losses in men and equipment. fithey have serfously interfered with his movements, interrunted nis communicotions, and prevented his concentration of the necessary torces to launch largescale attacks. You have contributed inmeasurably to the success of our operations.


Of this message General Spaatz wrote: trever before have the Air Forces been given such sincere recognition by an Army Commander. 1109

So entlrely were the air forces commtted to direct support of the ground forces that none were left for trips into northern and central Italy, with the regult that General Disenhower cabled tne COS to suggest that it would help matters if bombers from the $\mathbb{X}$ could strike a blow egainst the German lines of comanication into northern Italy; and so great was the need for the allmout effort of the air forces on penalf of the ground troops that ine informed the COS that the siftuation would be helped if the COS would return to the Mediterranean the three B-34 groups Which had formerly operated there, as they would be very useful for nitting lines of commanication close to the rear of the battle area during the coming two weeks. Foth auggestions were approvedby the cos and were carried out promotly by the \#ightn Air Force and the RAF in the CZ. On the night of 16 September 340 PAF planes anc 53-17's bombed the :/I's at llodane in southerr. France in an effort to close the northern end of the Sont Cenls Tunnel. At the sane time the THehth dispatched 80 aircraft, 98 combat crows, and 466 noncombat personnel of the $44 \mathrm{th}, 93 \mathrm{~d}$, and 389th Bomb Groups (E) to the Nediterranean to ascint in the Italian campaign. These plones began operations on the 2lst and continued to


The Allied Commonder-in-Ghief was also concerned that his air force micht not be able to continue its operations on the scale which he felt was necessary to the success of Allied arms. On the lith he cabled Cenerel Marshell that air operetions in Bayion and EVALAroHz had


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seriously taxed his resources in crews ans equipment, the actual employment of the air forces havine ereatly exceeded the plenned employment. To reduce the scele of the present air effort mifit be disastrous, he ielt; yet the air force lis beine depleted by attrition losses and will Te furtker deoleted by lossen through completion of combat touns." By 1 October 20 per cent of the $3-17$, 29 per cent of the $\mathrm{P}-26,56$ per cent of the $\mathrm{E}-25$, and 72 per cent of the $\bar{P}-38$ crews would have completed their toure. Such crews would still be used, but obviously their efficiencer would be lowered and their losses in equipment woula be heavy. 111

Completion of combat tours was especially rapla in the leadterranean as a result of a combinetion of excellent flying weether during the summer months and the large number of sorties in support of land canpaigas. Air crevs finished their 50 rafsions in four to six months; so, despite 100 casuelty retes, the normal 15 per cent replacement rate seemed to the theater comanders to be too lov. Generel Doolittle felt that his XII somper Consend faced a critical shortage of combat personnel due to rotation of war-weary crevs. 112

HAAF received no innediate reinforcenents as a result of Generel Bisenhower's deposition. The Assistant Chief of fir Staff, Operations, Gommitnents, and Requirements noted that on 1 October, after making a 15 per cent ailo ence for attrition durine September, the Twelfth sir Force would have on hand 230 B-17's (an overage of 38), $265 \mathrm{~B}-35{ }^{\prime} \mathrm{s}$ (an overage of 137), 236 E-26's (an overace of 65), and 381 P-38'g (an overage of 156); he further noted that the only way by which the theeter could return a leree percentage of crews during September and October
would be for the AAF to send September crew gracuates to North Africa instead of to UK as presentiy planned. ${ }^{113}$ On 22 September, General Narshall infomed General senhover that no P-s8's over the number already allotted to the dro would be availeble. He noted that the USAAF's air forces in other theaters were even shorter on replacenents than was the Mediterranean, and he was hopefial, now that ivajafoin was secure, that the prossure on NAS's fiethter planes would be greatly reduced. ${ }^{114}$ However, it was planned to increase the replacenent rate from 15 per cent to 20 per cent (troop carrier crews from 7.5 per cent to 10 per cent), effective in January 1944. This was to be the miniman figure, and a larger percentage of replecenents would be sent whenever possible. 115

Seconcany air Operations, 9-15 Sextember
Thile MAF's planes had oeen helping to osteblish and then to save the Salemo briegehead, its aircraft also had been busily engaged in carrying out the several secondary tesks with which the air forces were charged.
ävery nicht Wellinetons dropped hundreds of thousands of "nickels" over central and northern Italy, Corsica, and Sardinia. ${ }^{116}$ Eegularly, P-40's awert over southern Sardinia looking for signs of enemy air activityand findine none. ${ }^{117}$ Daily, PEd sent its planes over eneny territory in search of targets end concentrations and snifts of troops and atrereft, and on demage assessment $\operatorname{Hissions.~A~typical~PRii~day~between~the~9th~}$ and the 15 th was the 15 th: one plane covered Fogile $A / D$ and satellites; a second covered Termoli and atuletta; a third examined atrfields in the Fome area; a fourth photographed A/D's at Frosinone, Aquino, ana Spoleto;

a fifth covered $A / D^{\prime} s$ and $H / Y ' s$ in the Naples area；a sixth examined Venice，Verona，and other northern cities；and a seventh took a look at cities in western Yugloslavia．At the same time eight PRiv planes covered roads in central Italy；one covered all ports on the west coast north of Rome，plus the island of 丑be；another obtained 36－inch cover of bombed areas for damage assessment；two thew extensive cover of the ports and $A / D{ }^{\prime}$ s in Corsica and Sardinia；and three lielta－based planes covered the cities，ports，and $A / D ' s$ of southern Italy．These missions were flown by spjtfitas，F－5A＇s，and Mosquitoes．The enemy made strenuous efforts to interfere with PRI＇s missions by sending up both planes and flak，but the fast，hfeh－flying photo planes always got home with no more damage than an occasional flak hole． 118

MAPRUI＇s work might have been more valuable head the wing headquarters not remained in forth Africa during September．This caused delays of up to 48 hours in delivers of the important vertical photos to units in the field in Italy．This unsatisfactory situation was partly alleviated by having a supporting tac／recce squadron make a number of pinpoint photos． On one occasion such photos were requested by an infantry division，taken， developed，interpreted，and the target fired on by division artillery in the space of sim hours． 119

Costal Air Force stuck steadily to its numerous and unspectacular but important tasks．The night of $11 / 12$ and the day of 12 September may be taken as typical examples of $\mathrm{on}^{2}$ activities．One hundred and twenty of its fighters（including 56 planes of the French Air Force）successfully escorted four aircreft carriers，being assisted in the job by 18 Eudsons，


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Wellingtons, Swordfishes, and taluses. One of its Hudson sighted a surfaced submarine off Sardinia and attacked it with four depth charges, out without positive results. Tight fighters scrambled against plotted hostiles. Beauflgnters and P-391s were on patrol from Dellys to Cherchel and over the harbors of Algiers, Bizerte, and Oran. Two Spitfires searched for a wellington reported down at sea north of Bone, and four hours later a rescue haunch picked up seven survivors. Several other air-sea rescue searches were conducted but without results. Fourteen fighters escorted an aircraft carrier without incident. Two w-boat hunts were conducted with no success, but a third hunt resulted in the bombing and destruction of a submarine. Wellingtons, llareuders, and saltimores reconnoitered Sardinia and Corsica, the northern Mediterranean coast from Marseilles to Piombino, and the approaches to Toulon, Genoa, Spezia, and the northern Dyrikenian and Ligurian seas. 120

## Summary of the air Retort

The extent of HAD F's operations during the four critical days from the lath through the lith is indicated by the fact that its planes flew more than 6,000 sorties and dropped over 3,500 tons of bombs. Threequarters of all the sorties were flown by pilots of the Twelfth Afr Force. Of the total sorties, fighters flew around 2,700 and fighter-bombers 800 , with probably 300 of the fighter sorties actually being fighter-komber in nature. ? mediums flew close to 1,100 sorties, heavies around 550, light bombers some 400 and night bombers about 300 for a total of more than 2,300 bomber sorties, not including fighter-bombers. Planes of pew put

## somuchtrs



In almost 100 sorties. fircraft of Coastal, which did not operate over the mainland durine the period, flew an average of around 100 sorties per day. ${ }^{121}$

The scope and value of the operations of the fighters and figaterbombers during the firct 10 days of AVALAWCHE ( $8-17$ September) is well 111ustrated by the activities of three groups of $2=38^{\prime} \mathrm{s}$, the $1 \mathrm{st}, 14 \mathrm{th}$, and 82d Fighter Groups. The groups' planes were based around Gerbini, Sicily, 215 miles rrom Salerno, so that each flight, exclusite of the distance traveled while patrolling or of the extra niles flown while boming beyrond the bridqehead, was 430 miles. The total time required士'or a round-trip and a one-hour petrol was three and onemalf hours. A mission of such length and duration in a fighter plane was a grueling affair. Nevertheless, the three groups flew 2,77l sorties, with an average of 238 aircraft in commisaion (or more then 12 missions per plane), and kept 24 plenes over the beaches at all times during daylight hours, 12 plenes taling off every 30 minutes. The groups dropped 1,33I bombs, shot dovm 11 enemy planes, destroyed 35, and damaged 41 on the ground by strafing. They lost 25 planes but had only 1 pilot killed in action and 10 missing. 122

Ho less worthy of recognition was the work done by the eroups' ground crews. Where were only 300 men per group but they cared for all maintenance and servicing, hendled all bombe, amunition, gasoline, eto., and took care of housekeepine, guard duties, and other services. 123
 AVALATOHE, MAAT's aircraft flew approximately 17,500 sorties. Planes of

the USAAF accounted for alnost exactly two-thirds of this muner. U. S. fichters (not incluaing A-36's which, as fighter-bombers, are counted in the bomber totels) flew sone 6,200 sorties and RAF fighters flew around 4,750, a total of 10,950 . Bombers of all types flev 6,450 sorties, with U. S. bompers accounting for around 5,350 and PAF liellinetons for 1,100 . During the period a total of approximately 10,000 tons of bombs were dropped, around 7,400 by U. S. bombers and fighter-bombers, and 2,500 by the Raf, NANF's aircraft shot down 221 enemy plenes, while losing 89. Of the victories 80 per cent were credited to the USAAF, whose bombers accounted for 100 eneny planes and whose fighters inocked down 67; the remaining 54 planes were destroyed ber the RAF, 50 being knocked down by bombers and 4 by fighters. Of the 89 planes lost, the USAAF last 59 (22 bombers and 37 fighters), wnile the RAF lost 30 (8 bombers and 22 fighters). Figures on Ooastal's operations for the period are not availam vle, but during the period from 1 through 8 September its planes flew a total of 2,269 sorties, of which number 1,344 were convoy escort. ${ }^{124}$

From the end of the Sicilian carpaign on 17 August through the checking of the German counterattac ss on 15 September the several elements of NAMF flow a total of 18,193 fighter sorties and 2,259 figter-bomber sorties. lost of then were cover for the assault beaches of 3AYponif and AWILHOEA; the reatinder were air support missions, in the course of which fighter-boinbers dropped 1,060 tons of bombs. During the same perioz Constal's planes flev 3,571 sorties on defensive missions, convoy cover, air-sea rescue, foboat huats, etc. Highter cover was given by Coastal to 357 convoys without a sinsle shipping loss. Interceptions
by Coastal totaled 547 and resultad in the destraction of 37 enemy aircraft, the sinkling of three enemy ships, and the damaging of 16. Twenty-bwo air-bes rescues vere accouplished. During the period bombers fles more than 8,000 sorties and aropged over 14,000 toms of bombs. All elements of NaAF destroyed in combat 324 enenv fichters and 68 bombers, and destroyed on the ground 404 eneay fighters and 107 bombers. Against these improssive figures NAAS lost 130 fighters ( 26 of them to flak), 19 heavy boubers ( 8 to flak), and 56 mediuns ( 41 to flatr). 125 During the critical days at Solerno the two other Allied ground operations on the mainland had continued to move steadily forward. On
 75 road miles below Peestua, and advance patrols were still further north. To the east, troops were moving northwards from the Spezzano area. Bnemy demolitions continued to be the chief obstacle to the adrance. On the Apulian front the Allies, now reinforced, controlled everything south of a line Mottola-Gastellaneta-Ginosa and all of the Heel except a small area around Brindist; they had patrols extonding north and northeast froi Mottola to the idriatic, including Bari. Only around Giola wero the Gemang putting up any resistance. 126

Thinge alno were going well for the Allies in and across the Tyrrionian Sea. The 1sland of Capri had been occupied on the night of 12/13, without opposition, and radar Lacilities and a motor boat station had fmrediately beon set up by the ITav. In Sardinia the Germens were puiling out rapidy, apparently going to Corelca fron La Naddalena, after having destroyed their installefions and airfields on the northern heif

of the isiand. On Corsice, patriots and Italian troops were harassing the Gemans at all points, but the latter were in sufficlent strength to hold those places on the island (notably Bastia) essential to a coaplete evacuation-which would not come for another two weeis. 127



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From tne 16 th to the 27 th of Septemper when the 胃ghth Aray entered Fogerla and to the Ist of Octooer when the Fifth Army moved into Maples, the story of the Italian campaign is one of steady illied geins aoross ruesed terrain and ageinst a tough and skillful foe. The period properly should be analyzed in two phases. Fhase one, from the 16th through the 19th, saw the German forces in front of the Fifth Army pass from the offenstive to the defensive and Degin to withdraw fron the Salemo Plain, the Iifth Army take over all of the Salemo area fron the beaches to the mountains, the Fiftin join with the Blighth, and the Tiginth advance past Potenza, Giola, and Bari. Pnase two, froa/Foth through the 30th, was featured by hard fichting on the Eifth Aring front among the hills and mountatns between Salerno and Maples-Evelifno, the debouching of the Fifth Aruy onto the Naples Fiain on the 23th, the capture of Naples and Avellino, and--in the zighth Array sector--the seigure of Oerignola, Foggia, and the whole of the Gargano Peninsula. ${ }^{1}$
rith the capture of the port of Haples by the Fifth Army and the overruning of the Fogela airfields by the Zighth, the primary missions of AVATABOHS and BAYTOiN had been accomplished. In no small part these successes were made possible by the air forces.

## First Phase: 16-19 Scptember.

During the first phase of the action of the last two weeirs of September, that is, from the 16 th througn the 19th, tne air forces were
encaged in carryine out four major missions in furtherance of the Fifth Argy's advance: (1) Interrupting the Gernan withdrawel; (2) forcing concentrations of men and material by liniting and restricting the eneny's movements, and then destroging personnel and equipment by licht and fighter-bonber attactrs on the concentrated targets; (3) hitting critical commanications objectives north of the battle area witn heary and mediun boubers for the purpose of preventing the novement of reinforcements as well as for cutting linee of escape which the eneny might use in the evont of an Allied break-through; and (A) teking counter-alr-force measures in oxder that the German air force might not be able to hinder the advence of the axmy or interfere too seriously with the three air force missions noted above. ${ }^{2}$ The return of Strategic to strikes egainst commaications and to counter-air-force operctions after almost a week of tectical and quasi-tactical activities was made possible by the improved groma situation. ${ }^{3}$

HOur air force, " General 73 senhower cabled to the cos on the 16th, "continues to be superb. $"^{4}$ mans's activities on that dey merited the words of praise. Heavies flew 106 sortres and mediums 234. The more than 400 tons of bombs which they aropped were directed against the outer ring of commications targets, the main attacks being delivered against the Capua and Benevento bridges and roads and the lignano, Isernia, and Caserta roads. In adation, 20 3-2A's formerly of IX Bomber Comand hit the Potenza road junctions uth 42 tons. That night ielinggtons flev 123 sorties over the roads and bridges at Torre Annunziata and Pompeil, dropping 240 tons of bombs. FHehters and fighter-bombers flew close to


500 sortien against eneny troops and positions and in defense of the beach area. In all, Whaf's planes flew nore than 1,200 sorties and dropped slichtly more than 1,000 tons of bombs.

The enemy's activity auring the day was up a bit from the 15th, 120 sorties being flow, all of tnem againgt shipping and the beachinead. His principal success was the danging of HilS liersotie. ${ }^{5}$

Beginning on the night of $16 / 17$ September, the Allied atr forces' heavies and mediums shifted their attacks to enemy airdromea which, since the night of $11 / 12$, uad enjoged five days of respite from demolition and fragrontation bombs (while Strategic and Tactical had been directing their full efforts toward reducing enemy pressure on the bridgehead) and which now were beginning to show siena of increased activity. In particular it was inmortant that the Foggia installations, Witerbo, and the fielas near Pone be smashed, reports frou "Y" service and pnoto reconnaissance having indicated that the Fogeia bases held four Grupen of Ju-88's and many fighters, Titeroo two Gruppen of Jumbis, and the Fome fields a large number of fighters and fighter-bonbers. It wes not necessary to attack the Naples fields or Capua, none of which were serviceable, or any tields south of $41^{\circ} \mathrm{If}$ (Iaplec-Bari Inne), all of witicn were either in fllied hends or too badly dameged to be used by the GAF ${ }^{6}$

The airdrome blitz was opened on the nicht of $10 / \perp 7$ by 89 Telifingtons which dropped 150 tons of bombs on the fighter base at Cisterna/Ittoria, neer Rone, leaving the field "a mass of fire." on the 17 th $55 \mathrm{Bm} / \mathrm{f}$ 's pounded Ciampino Horth and South (the Pome fielde) Witn 106 tons of nigh explosives, and $72 \mathrm{Bm} 6^{\prime \prime} \mathrm{s}$ and $60 \mathrm{~B}-25$ 's cracked down on Prectice di liare airfield (on the coast, southvest of Pome) with 1zo tons. Strike paotos

showed that 80 plenes and 18 gilicers were destroyed or dameged in these raids. Thnt nignt 64 Wellingtons went for the fighter base at Cerveteri (on the Via Aurelia, west of Fome) with 119 tons whien smesned hangere, destroyed many aircraft on tne ground, and left large fires buraing. On the 18try follow-up raide wore made on biarpinc Soath be 36 3-25's and on Practica di lare by 86 3-26's, with henvy aaiage to grounded planes and installations. A very successivil strefing attecs was caryied out by 91 P-33's over the four most active of the Foggia bases; 32 enemy planes were clained as destroyed and 43 as damoged. The nonber ficld at Fiterbo was visited by 7l $2-17^{\prime \prime} \mathrm{s}$ and 125 tons; that nizot (18/19) 55 \#ellingtons followed up the attacte whth 90 tons. ${ }^{7}$

As an imeniate result of this series of attacks on enemy airilelds more thon 200 GAS planes (including gliders) were destroyed or damoged on the crouni, and the fields were so badly battered that the: were of Ilttle service to the enery. A further result was to force the GAF to withdraw to itelds farther north, with a concurrent reduction in its ability to operate against the Fifth and math Armies. By the alst the Fogeta installations and all fields west of Fognia to above Capua had been evecuated, ${ }^{8}$ and the eneny had been reduced (as early as the 17th) to an average of about 30 offensive sorties per day over the battie area as comared uth an average of approxinately 100 during the first 10 days of ivinuricing Only in the matter of reconnsissancen was the oneay's air effort nomal, his plages flying some 25 reconaissance sorthes daily. Jon the GAF fielda farther north were not entixely safe, however,

as the enemy learned on the 30th when $153-24^{1} \mathrm{~s}$ attacked the Pescara airdromo which was located well ug the Adrlatic const.

Hhar's attacins on airfields did not prevent its planes from also hitting the enemy's lines of comunication and troop and equipment concentrations, from the 16th through the 20th. Eearles made a sanilmscale attack on roads and rails betucen Salemo and Avellino, rediurs and light bombers vent for roads in the battle area generally, B-24's drompad a total of 163 tons of bonibs on Pescorale rail and road junctions, and 1fghter-bombers boubed and strafed transport throughout the battle zone and on its parizater as far as Avellino and Pesopagano. ${ }^{9}$

For the period from the nieht of $16 / 17$ through 19 September Ifint's bombers dropped nore than 1,500 tons of explosives. ${ }^{10}$ An unusinily large percentice of this tonnage wes delitered by flghter-bombers. This was due to four conditions. One was e brier period of bad weather around the 19th which limited the operations of the heavies and mediums Another was the decrease in the enery's oir effort over the bridgeheed which allowed RAF to reduce its patrols to betwee工 200 and 300 per dad and therebr freed mans fighter planes for fighter-bomber missions. 'Phis reduction in the number of planes on patrol dad not change the oxiginal system of patrols but neroly cut dom the number of aircraft over the aren from firet to last lifgt to one squadron each of Spitfires, P-33's, and P-40's. High, medium, and low-eltitude patrols continued to be used. The higi patrols, particalarly concorned with checking eneny bombers carrying rocket and glider bombs, were aided by smoke screens put up by


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Allied vessels, although by the 19th these screans nod to be confined to the transport area because the heave smone over the bridgehead eirfields was cansing exces ive accldents and casuaitias to landing aircraft. ${ }^{11}$ Whe third condition explaining the amount of bombing conducted br fighterbonbors was the removal of an increacingly large number of fightors and Ahghter-bombers from Siclly to beses on the mainland. Up to 16 September it had not been possiole for XII ASC to accept tergets of opportuntty pecause no zitghter-bombers hod boen established in the Tifth Army area, out on the 26 th one squadron of thene planes began to use Paestrin by day (returning to Sicily at nifgt) and by the plat three squadrons of the 86th Fighter-bomber Gromp were operating from the field. ${ }^{12}$

A final condition which improved the roris of the fighter-bombers (and the fichters) was the establishaent ashore of signal communcations. The ancon had handisd all air force wireless and telecomanications channels until the night of 12 September when it left for Algiers; the Hilury had then acted as atandoy fighter control for the 64th wighter Ming and as wireless telecormurications (W/T) standby for XIf ASO until the 16 th. By that time five lending stripe fore being used by two kas Spitfire wincs (each less one squadron), ono P-40 group, one i-36 group, one-half of an FAF tac/reace squadron, and one-hatif of a USALP observation squadron; two ground-control interceptors (MCI) and four light warning sets (Iits) had been established ashore, in adatition to a seaborne GCI on an IST in Salorno Bay and a very poor GOI on Cepri; and four wiraless units (iJ) hod been set up on the beachinead. By 19 September ( 1 plus 10) a forward fighter control and a iU post had been phat on Canrif the 64th


Fighter 住g (bact of 10 Corps) had been connected by land lines to the Ianding atrips, tine GOI's, and Headquarters, XII ASO, which was in the rear of VI Corps; and standbr $7 / 2$ channels had been provided wnerever needed. Inis combination of developments greatly improved fighter and itighter-bomber operations. ${ }^{13}$

Durine this period the Mavy internittently shelled enemy pasitions and tan: and troop concentrations in support of the ground troops. A P-51, placed on call by Xif Aic, assisted by spotbing. ${ }^{34}$

On the Eignth Army front $11 \mathrm{Alin's}$ activity was on a limited scale, partly because of the necessity for emplovin:s the bulk of the air effort In the Fifth Army area and partly because comparatively little support was needed by the 蒀ghth, whose main difficulty in pursuing the eneny wes that caused by denolitions. DAP Spitfires patrolied the central and eastern parts of the battle area but saw fey enemy planes, tne GAT's dwinding effort being almost altogether against the riftn irry. ${ }^{15}$

## Second Phase: 20-30 Seatember

HAF's smashing attacks on airfields had rendered the eneny air units in the vicinity of the batile area impotent, and by the 20tn tne Allies were ready to return to tneir plan of using bomuardnent to intermut the Gerian retreat ens to force concentrations so that lifit bonvers and fighter-bombers could destroy porsonnel and equitwent. The period fror 20 September to 1 Oetober was given over almost entirely to operations of that type, and with a high degree of succese in spite of linitotions imposed by intermittently bad weather and an increasing shortage of fighter-bomber targeta as the Cormans shifted the bulk of their trensport


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operations froz daytite to nienttime, moving thair troops after dars and generally on secondary roads. ${ }^{\text {l } \epsilon}$

Eoas Blocice and Close Comerction, 20-烈 September. Front 20 to 34 Septembor Strategle's main effort was concentrated on roed junctions, uridges, and other bottlenecus north and east of taples, touncd which the Ilith Aryg was slowly moving anid the mountains above salemo. The puppose of thene attacks was to destro: ell brioges over the lover reaches of the Volturno Fiver and to ontter the roeds inmediately avove Naples, thereby creatine a scries of blocks which would interfere with reinforcementr froa uithout the kaples area, hinder escope fron within, and produce good targets for tactical aircreft.

The firgt set of bloclss was establishec along the line of the Tolturuo. E-20'g flew 72 sortles (aropping 107 tons of bombs) ageinst rail and road bridges at Gancello/srmone, 42 sorties ( 64 tons) Arainst the Amorosi bridge, and 18 sorties ( 27 tons) against the Ponte bridge. E-35's went for the San vartino bridge witn 35 sorties and 51 tons and the Grottaminarda bridges with 54 sorties and 77 tons. $3-25^{\prime}$ s and $3-26^{\prime} \mathrm{s}-$ E6 of each-collebortited in pounding the bridses neer Cama tith 93 tons. Benevento and the bricgen near the town were blitzed by 290 tons, dropped by 89 ";ellingtons, 33 3-17'g, and 34 3-25's. A second series of blocis, along the Formiestanano lino, were mode more inpenetrable-nthe region had been bouned frequentiy during the earlier part of the month-by two attacice, the first at Forisat when 36 B-26's and 46 "elingetone dropped 154 tons, and the second at i.igneno which was hit by 79 tons from EA 2-26's. The Forma-Mienano line was of particular interest to the Alifes because its vestorn and eastern ends rested respectively on

Eighways 7 and 6 and beceuse the Garigiono Eiver ran batween the two torns. 1 ?

In addition to thene attacks Strategic's bombers flew a number of rinstone againet objoctives directly ahead of the adrancing araies, dropping a total of 166 tons on Gastelnuove, Morre Annuzfata, Sarno, Daddaloni and Avelifino.

The results of these raids were excellent. Tormicable blocls were created at Fomia, Caserta, Benevento, and Castelnuove; road bridges were down at Lagonegro, Avellino. Capua and north of Capua, and other bricges were blockod by craters at thelr apmoaches; ratlway bridecs were fmpasesble at Formia and Pascare, and other bridees in both areas were unurable. ${ }^{18}$

Seanwhle, light bomoors, figntcr-bomberg, fici 3-25's of Taf delivered gmall-scale but consistent attacks by day and night on uatileflela tergets and on troop and trangort concentritions near-oy. The tarcets were seloom the same from one day to the next because of the constantly shiftine Eround sibuation. Immediately beyond the batilefield, minslons were flown over Caserta, Benevento, Torre Annumiata, Sarno, Avellino, Castelnuove, locera, and a muber of smaller tovme. Fighternomber asssults were made on the enery's positions and concentrations at Mocern, Prani, Canerelle, San Lucia, Sarno, and Arellino, These softened resictance anc aided the Fifth Imy as it pushed ite way across the mounteins tovards the Hoples Plain, ${ }^{19}$ although the rueged, wooded terrain nad the skeleton-type of rear-guard resistance enployed by the Gernens made it difficult for the bomersmend difficult even for the


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 tions was the carrying out of nightly armed recomaissance missions by lifght bombers over roads leading into the salerno aren．As had been the case during the previous two weels，the zighth Army required far Less air activity on its behalf during the period from the 20th through the $84 t h$ than did the $5 i f i t h$ Arry．The 理ghth continued to meet little opoosition excegt in the form of demolitions，for nowhere elong its entire front，from above Potenga eastward to the Adriztic，did the Germans put up a real battle．Nevertheless，the air forces were busy in the central and eastern sectors，DAs Spitfires patrojing over the front and fightor－bombere being esfecially active in the Fogria area． \＃lghter－bomber attacks of particular inportance werc delivered around Nelfi，in the center，and Zarletta and Foggia，to the east． 21

Operations Aceinst the Corsica－techorn Evacuation Foute．A special operation by $H A F$ during the period was concerned witn the eneny＇s Corsice－ Lechorn evacuation route．It has alread oeen noted that during the atrst three weels of September SAT P－A0＇s and cennon－firing B－z5＇s were busy over Sardinia prior to the evacuation of the island by the Cermans curing the thitra weel of the month．To facilitate the witharawal of their troops and equipment from Sardinit the Germans after wreckins the cirflelds and destroying many aircraft which were stationed on then，used Corsice as a steppingstone to the Italian mainlend．Rife alone would have made Corafica of intereat to Strategic＇s bomberg，but the fect thet French troops and Corsicen patriots vere fighting their way north through

the mountainous island in a cempaign desigred to crive out the cermans (who were already in precess of evacuating the island) ${ }^{22}$ and could use help from the afr, gave the bombers an extra reason for attacing ley places on the island and on the mainland end of the Gernan escape routc.

On the 2lst the $3-{ }^{2} A^{t} s$ which had been sent down from Un in responge to General Insenhower's appeal of the $15 \mathrm{th}^{23}$ carried out their first missiong under the direction of SAF, 32 of the heavies droppine y2 tons of bombs on Leghorn and nitting several small evacuation craft and dameing harbor and industrial ingtallations, and 20 atbacking the harnor at Eastia, Corsica, and scoring strikes on a number of small vessels. That night 75 \%ellingtons poured 125 tons on Dastia. On the night of $23 / 24$ the iellingtons went for the Fise area, 39 planes dropoing 55 tons on :/X'g in the city, and 41 unzosding 46 tong on the Plfs/San Giusto airifeld, a conter of trancport aircraft activity. On tne 24th the atteck on Pisa ves continued, 54 B-24's hitting several bridges and cutting every through railway line. ${ }^{24}$ That night 80 Mellingtons aropped 107 tons on small craft and medium-sized nerchant vesself in the harbor at Leghorn, and the foIlowitig day 36 E-EE's attacked the Rastia/Eorgo airfield in orcer to interfere vith the activities of transport planes. 25

The afr forces did not confine their attacks to Corsican and mainland evecuation points. During the weel enaing 24 Eeptember 3 bezG's flew 14 sorties agcinst shipping targets beteen Corsica and zlba. A total of thirty-six 75-mm. shells wore fired, and nits were scored on a dentroyer anc many smill craft. At the snme tine CAF Beaufighters and B-26's vent


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for enemy transport eircraft flying between Corsica and the mainlend. The Ju-5s's wore flying around 25 sorties and evacuating 1,500 persomel per day. On 24 September Becufighters of 242 Grown shot down 19 Ju-E2's. This attack, plus the advent of a period of bad flying weather, curtailed further GAF trangort notivity, but by that time the enemy's air evacuation was practically complete. Therefore, NACAS actually accomplished 1ittile berond the destruction of 30 enemy aircroft.

Leanuhtle, French Air Force Spitfires of CAF, operating from Ajeccio, Corsica, afforded protection for the ground forces arainst enemy raiders over the island, with pilots of the French $2 / 7$ and $1 / 3$ Squadrons shooting down nine German planes. Their most notable success occurred on the 34 th when the Luftwaffe made one of its two September attacks on fllieci ports. The attack was made against Ajaccio by 10 Do-217's anc 1 Ju-88, and of thic iorce the Erench Spitfircs snot down five. ${ }^{26}$ i feature of the raid wes the use by the enemy of the new-type glider bomb, this apparently beins the first time the bomb had jeen employed afainst an Allied installation, ${ }^{27}$ elthough it hed been used earlier on a few occastone against shipeing. 28

Jomy air Activity, 20-24 September. During the period from tne 20th through the 24th the enemy's air arm was still flying no more than an averace of 30 offensive sorties per day. Fis activities were divided between the soipping, the beaches, and JAAF's airfields below Salemo. Amons the latter, Ilontecorvino and Iusciano received perticular attention. The raide did little damace, being on a mell scale ( 4 to 6 planes) and beine attacked with the same success ${ }^{39}$ as in provious weers by the fighter patrols which the Allies were continutng to operate over the

bridegenead ${ }^{30}$
These patrols were most essential over the beaches where Virtually all of the supplies for the mainlend operations were being arought in. The port of Salemo was not free from enemy sheiling until the 23d, and even tnen it could hende only a part of the shipping. The extent of unloading activities on the beacnes is indicated by the fact tnin from the 9th to the 20th of September 147,527 personnel, 21, 332 vehicles, and 72,402 tons of suphlies were landed. 31

Tae special attention paid by the bridgehend patrols to the eneay's high-ievel boubers which hed been explowing rociet and glider bombs (to the ereat concem of the naval unlts operatine offshore) was paying dividends, as no ships vore danged by sucn attacks during the period fron the $18 t h$ to the $35 t h$. Unquestionebly, the firm establishment of fighters ashore nelped to provide a greater grarantee for the safety of the ships then fot eny previous time in the operation. 32 y the end of the 34 th the enemy's planes were still callin forth a few alerts, out noue of the attach wero oressed hone, and after that date his rells on the Salerno area were too few, sall, and mercressive to pother the allies, Sporadic attacks at nitht were capably handled by ThT and car 3eaurighters. 33

Daring the week of $13-25$ Septoriber only six attanks were made on Allied bombers by onemy defensive fighters, and none was on a scale large gough to cuuse concern. The enemy's only nor whe effort was againct Pad cund in reconnaissance planes, 26 attomots at interception beine made, notebly over Selarns and Frosnone. 34

It ver :rideit that the Gfo was followine the same procedure as in Funisia and Sicily, thet is, tre fighters wero shifted fron defensive

wor: aganst illifed alrcraft attncrinz installations to offensive opcations againgt allied troops and shipoinc; after a period of intonse offensive activiter operationg began to fill off to a few sorties per day-a sure sign that the Git not only hod suffered losses which it could no lonser afford but was in process of witndraving to new ilirfields. In fact, by tho 3itn the Gur had moved almost al! of its boubers to bases in northern Italy, and its rein fighter strenstin was located in the Pome aren and at Fiterbo. The Fogste complex and Sardinia had boen abandoned, Corsica nearly so, and the Naples complex was inactive. 35

Alited Zomber Onerations, 2A 30 Septomber. Irom the 24th to the 23 th the Ififin army slowly gushed its wat through the mountains between Salermo rand Maples-Avellino. Cn the 23 th 10 Corps bro:ne through the Pagani Fass and debouched onto the Maples Plain, advancine to Gastellamare and tasing locern; meanohile, VI Corps arove north anô northeast, toot avellino and joinea its right flank to the Zighth Arme's Ieft flank. The 10 Corps then swept through Fopoit and Fore innumiata; it was neld up briefly at Eorre det. Creco but on the 30th was past Tesuvius; nad on I Octooor its advance unts moved into Faples. 36 On the 3 ghth Army front Fogsia was teken on the $38 t h$, and the next day the Gargano Eeninsula was overrun. The battle line on I october stretched in a rougn and flutd arc whicil ran from Inaples to opoint about halfuar between Avelino nad Denercato and then swong almost due north to a line frou San Bartolemeo in Galdo throut Castelauova and Serracapriola to the coast below Ier rolt. 37 During the last weak oi Sextember aints ulones nid more trounle with the weather then eith eneuy aircraft Enins and wind interfered vith

airfield activities and, together with heary clouns, obscured targets. \#evertheless, the air forces put in a onsy weet, althourh the total sorties floum and tons of bomin aroped were much lese then during the nrevious weet and far below the neak of 11-17 September.

Strategic opened the air offensite with three long-distance smoshes on the 25th against targets in northem Italy. Dologna was hit by 269 tons aropped by $323-17^{\prime \prime}$, the target defnes the 'I/Y's; 14 Fortresses hit the 3olzano railroad bride tith 35 tons, and 6 bombed the Ferona I/ 1 's Whth 15 tons when ther were unaple to find Bolzono beeause of heavy cloud cover. Wearer nowe, 91 E-26's attacked the railwhy bridge at sancelloAmone (at the mouti of the Volturno Isver) and road bridees alone the line of the Tolturno at Fonto, Vaddaloni, and Gaiazzo; $17 \mathrm{~B}-30$ 's bombed the road at "Hgano; and during the night of 25/25, 49 "iellingtons hit the zorila const road,

Planes maxing the long trip into northern Italy found the Alled airIfelds on Sardinia of value, a number of aircraft lencing on the return trip of fields aroma Decimominnu. 38 The 1 sland was nlready acequately protected, P-AO'g of the 3ath Grour herling moved in at Decinomannu on the 23a; ${ }^{39}$ and the estedinment of servicing fincllities for setting un F-3o's and medtur for operations frou the island was progrescing. 40

Tacticel Air Force also was bustr on the 25th, attackine fortified rositions at Kocera ma Serino and troop concentrations at Sumo. The P-35's and Jaltinores flew almost 109 missions end dropped close to 175 tons of bonibs.

On the $26 \% \mathrm{~h}$, 27 th , anc 20th virtually ald of the bombers were pinned

down to bad weather, the only operctions of inportance being a continuation of the nitacics on concentrations ot Sarno and rocera by 48 of Lap's 3-35's on the 26th. These attaciss were cesinged to soften wo the enery for the Iffth Aray's impending breal-throueh into the avellino seetor. .

On the 29th and 30th weather contimued to ground Sis's heavies, but medims carried on the assanlt on the Tolturno bridges. She bridges at Cancello and northeast of Gapus were attacked by $513-26^{\prime} s, 73$ tons of Dombs beins dropped; and 135 B-25's smashed at the bridiges south of Piano, southeast of Castelvenere, and south of Amorosf, dropping 194 tons. In these raids bombing accurcy was far below nornaz, the bridges receiving no more than negisible donage, althoush roads and railuay lines in the Ficinita vere hit.

Then NAM's 'fellingtons failed to record even one sortie on the $29 t h$, it m rised the first night during the month that they hod been uncole to operate. Betrseen the 26th of June and the 29 th of Septemoer these astonishing mediums had operated on 88 out of 92 nignts, averaging 65 sorties ner nifith with only 130 available and serviceablo planes. It was General Spaaty' opinion that this record was mede postible in part because the "iellinstons altrys had two crevs aseisned to eech plone and hod all losses in crews end plenes promptliv repinced. 41

Na's main effort on the 29 加 and 30th was made by $943-251 \mathrm{~s}$ ageins the roci junction and bridges at Benevento, the object of the attacis oeing to restrict eneng movements in the erea, now threatened by the advence of VI Corps. P-33 fighter-bombers, nenuhile, iley 67 effective sortios againet the husonis defile, aropping 30 tons; na on the night of the


30th, 3\% Wellingtons returned to their old target at Fornia, unloacing 60 tons.

Fichiers end Fifhter-Borbers, 24-30 Septomber. The activities of fichters and fighter-bombers, like those of the hearies and mediuns, were on a decidediz reduced scale during the last week of September. Fighters found little to do as enony air operations over the battle crea were proctically nonexistent. Bad weather, heavy losses, and the snift of many squadrons to fields farther north comblned to cause a temporary cessation of offensive activity by tha Gaf. Nanaz's pianes continued to Ily defensive patrols, bui the daily average of sorties was below 100 and on noct dayg no enemy aircraft wero encountered. On the Fifth Army front, patrols vere oxtended as fax north as inaples; behind the 3 gnth Aray, defensive patrols were flown Dy DAs over the Bari-Brindisi-Taranto triangle. Tifghter-bombers managed to put in a nurber of good licks, attacing troon concentrations, defended hills, sun positions, divonac areas, transoort, roads, oridges, and airdrones cherd of the moving battle line and in the areas around benevento, Viterbo, anocera, Sarno, and Gamerelle in the Eifth Army sector and Castelnuove and Isernfa on the تighth irmy front. 49

## Gonatruction of Arfields

The work of the fichters and fichter-Dombers in the face of poor weather and asainst targets constantly farther north was made possible by the fact that the greater part of the USABF and Far fighter units-all oxcept one of the short-rango $5-40$ groups, ${ }^{43}$ for example-were operating fron mainland airfields by the 25th. On that date there were two RaF Spitfire

vings，one U．S．Spitfire group，two U．S．A－36 groups and one J．S．F－40 grow using fields back of the Fifth Smy，and one DAS Baltinore ulne one U．S．Am 30 groun，two Pas cra Stis Spitfire wines，two U．S．P－40groups，
 also U．S．，PAT and SiAF reconnissance squadrons and several squarons of Zenurifhters located ct various points in the two sectorg． 44

The task of kecpine the fields operetional devolved upon yorthyost African sit Service Comand，a combinetfon of XII hir Force Service Commend and EnT smply and mainten－nce units．In the Iisth Arny area，elements of XIL ATSO had constructed three landing strivs－－Faestwa，Sele，and Capecio－．． Detween tine 11 th and the 16 th ，and as early as the 9 th its＂uarteminster truct－compon；troops had come ashore to hondle the tas：of unlosding eceo－ line，bomb，amumition，and other air force suphlies fron the vesches nd nauling thei to the nirfielas．Eeginning on the lAti，service groups and soundrons come in cnd too：over the job of daintaining the airfields anc servicing the convat units which were beginging to use the ．Vontecorvino， as soon as it was free from enomy artillery fise（on the 20th），duickly becane the principal alrorome in the Selemo area． $3 y$ the 25th，it was supporting the U．S．Slest Eigater Growe，two squadrons of RiE Spitfires， and a squarton of zenafi aters，and was bein $n_{i}$ used by planes of mroop Corifer and MES flying special missions into the area．The fiele was serviced by the 305 th Service Squadron of the 41 st Service Group． 45

Another inmortant fleld was Paestun，also servised br the 306 th Service Squadron，mi hone of the 33d ziehter Group．On 10 Soptenber， 13 plenes of the Gth Groxp of 51st Troon Carrier ring landed there；three of the
planes orought in nurses, litters, and blankets, ana the other 10 carried P-38 belly tanks; on the return flight the planes evacuated Iitter and amoulatory patients. The following dey 46 C-47's from the 51 st Fed flew in supplies and 180,000 rounds of amuntition. ${ }^{46}$ Thereafter, Paestun, lontecorvino, and the other fields were not only bases for tactical afrereft but were terninals for sirborne suphies and equament and tare-off points for tir evacuation. ${ }^{4 /}$

Iot all of XII ASSC's unts entered Italy by why of the Salcmo peachos. Sone went in at tac roe or the Instey and moved norta penind the British Ehth Army. This was particularly true of cuartermaster units which serviced all tipes of plexes in the ares, heuled zesoline, vombs, retions, and other supplies to esptured affields, maintained fighter fools, operated control tovers, repaired of selvaced daroged aircraft, and meintined the fielco end their iccilitien. 48

If less ifgortant to the activities of the lene-based planes of NAR were the jobe done by Neather, Signsl, sind Ordnunce units, lobile Unit fo. 2 of the 12th leather Squadron lended at Salerno on the 12th of September and Liobile Unit ㅇo. 7 at Faestan on the 13 th. By the end of the ronth five detachnents were on the meinland, enelynine for mis the latest develonients in the uncertoin Italian veather. SigneI units began cominc ashore on tho 10th. Soue handed air warnins ficilities; others laid ctibles snd onen wiry dicuite between headquarters and ields. Ordnace comanies hondled ammition duras and serviced vehicles. 19


Durine the finol weot of septaber the linited activitieg of illied aircraft ard the far more linit d morations of the enc-y'g eir arm naturally resultod in ien planes bein; dentroged on either side. Around 36 enew planss vere destroged and 17 mrobsily destroved or danged; the -Ilies lost 15 planes destroyed, 13 missing, and 29 damget. nont of tho cestroyei shd durgea inlied rlanes were vioti is of flac. 50

Summur of aflied in ictivity. Sootonber 1943
Turing the month of segtember the $171 i e s$ had cone a long way. Two
 had been Icunahed and preserved-mind wholi havins been carried out in the face of heovy Gerim atiacis. Itely nad been eliminited from the war; thouncuds of first-olass Geragn troops had been 'nocted ont of the fightIng, and quantities of equipaont had been destroved or captured; the Gerian Air Sorce had beon seriomaly cripoled; throe of the best poris in Italic (haples, Zant, and Saranto) had been solzed; two excellent compores of afrields, arount wiper and Fozti, were in sllied hands; and the Fiftia nod zigath iraien had joined and were pushing northvards toward the Volturno and Tritono rivors.

To the cocomplishment of all these thincs the air forces had contributeu hearily, Wher, as auch as any othor single a;ent, nad been responcible for Itrify $s$ capitulistion. They hill afforded protection for the invasion convoys, protected the troops from enew air attacis as ther went ashore, and safeguarded them is they established thelr beachneads. Thet hed given air cover while more than 100,000 tons of supplies, 30,000

motor vailicles，and almost 200,000 troons had been brought in over the beaches． 51 They hod contributed mightily to stopping the eneay＇s offen－ stve of 12mls September and had helped to suing the Allied ground troops back to the offensive．As the Eifth and Sighth Armies moved north they nad gneshed enemy strong points，trosp concentrstions and gun positions． They had interaicted the Germm＇s lines of commicetions，blocking off oossible relnforcements and interiexing with his withdremal．They had seriousliv injured the danserous Germun Air Force．They had destroyed tons of equipucnt and awgiles wich the encar needed for his further defense of the peninsula and whtch he could ill afford to lose．

The extent of Hitw＇s operctions during the montin of septender are best show by statistics coverina sorties，tons of bombs drozped， rictoriss，losses，etc．${ }^{5 ?}$

Whe USAAF flew almost 22,000 sortiss and the raf close to 11,000 ， 5 total of between 32，000 and 33，000．Of these sorties HASAT＇s plenes Ileu slightly more than 10，000，Mrich＇s fiev nearly 18，000，and Coastal fled arourd 4，500． 53

A broatdown of sorties $b$ Findie＇s planes fives the following fiを゙スres： 54

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XII ASE--10,664
    Fighters, 5,544; S1;hter-bombers, 4,598; twe/recee,
    314; ni.ght bombers, 208
045--4,938
    Tlghters, 2,604; fightermbombers, 1,954; tac/
    recce, 380
435-2,045
    Day bombers, 1,069; night bombers, 976
To OnI--17,64%
```




| Day fighter, convoy escort | 3.482 |
| :---: | :---: |
| Pecon., convoy escort | 352 |
| U-boat hunts | 430 |
| Peconntissmace | 347 |
| TORAL | 4,591 |

The to tal of bombs droppec---includint between 2,000 and 3,000 tons aropod by planes of :住dile Bast, much of which was expendea in support of the Itailian cameign-was 18,700 tons, of which the usific oropped 13,950 and the 2tr 4,750. 56 Aircraft of $23 \times 15$ accounted for 16,000 tons of the total: lines of connuication recefrad 10,500 tons, airdrowes were credited uith 3,000 tons, and direct air sapport accounted for the remining $2,500 .{ }^{57}$ The areas most frequently inomed were the Auletta rocds, attached 24 times; tropp and gun poaitions on the Toe, 22 attacks; roads in the aalemo pattle area, 2l; Zboli tom, roads, and barracks, 20; End Benevento roEns and bricees, $20 .{ }^{58}$

The number of eneny aircreft shot down in aerial combet was somewhere in the neighborhood of 310. USidr planes were cxedited with shootIng dom two-thiras of that numer. Planes of Nasis secounted for around 160, $A T A$ for about 90 , and Coastal for the renining 60. About half of Coastal's victories came in the last lu davs of the month in operations over Corsica. In adoition to the planes destroyod, some 50 vere Ifsted as probavies and 110 as tareged. ${ }^{5}$ The nuber of planes destroyed on the cround cannot be deternined accurately but the figure aprarently was In the neighborinood of no0. ${ }^{60}$ 3etween 1,100 and 1,000 enemy motor trancports were destrofed. 61 Two ships were sunc, two severely deanged nod nineteen dannced. ${ }^{63}$


derinst tnese victories the illiss lost in aeriv conbet around 165 plames, the USin sufferina: 83 destroyed and 18 missing and the Far 47 destroyed and 5 masing. Of the total "An $10 s s e s 83$ were boabers and 70 were fighters. In adation to losses the USATF had 78 planes


The GEF also took a smal toll of illied ships, particularly through the use of the controlled-type bomb. The enery bad used this type prevtousiy, but the attacks at Salerno apear to have been the first extensive use acaingt sea Iorces. 64 The U. S. Tevy lost three ships to air sttacks, one being the dianset (AT), and had eight danaged by hits and nenx misses, amont; whien were the light cruisers Sayannan
 "exioundiand, and had 12 ships damaged, the more important being the
 The losses בust be considered as vers reasonade in teras of the volure of neval operetions, and then it is rememered then pecause of the distance winich the .illied cover-fighters bad to fly the rir forces aid not enjoy overwnelming air smeriority at Salemo end founi it imposaible to meiniain continuous fighter cover on a scale laxge enough to deny the ascumbt area to enery planes.

- O evideape is availabla frou whicn to estiante the extent of the lossos and darese inflicted by the Euftwaffe on ground troops, equipment and supplies on the bricgehead, and Landing cratit. But there is no cuestion but that the dange was held to a minimum by IAAT's finnters.

The gencral excellence of the close support given by the plenes of misis mo ettributed in part to lessons lemed during the Tunisian and SLcilian campagens. Jatil the end of the latter the fignters and firgtermombers had followed the old methods of close support as set Iortn in Field Lanual 3I-35, "eviction in Smport of Ground Forces," and hed found then in practice to oe unsount, primarily becauge ther were not conducive to the bost use of available arcraft, eir strength being parceled out to suphort indivioucl ground rits rather than being used as an intecrated and flerible force in sumport of the array as a whole. Confusion and Irc: of cooxdination ineritably resulted. At the end of the Sicilian compaign, Xli iSO was convinced that successfut close-supgort opertions should be based on an over-all airmround olat, and that the principles wich must govem hir's effective execution of its pext of the plan werc: (1) inacpondent emolownent of its forces, and (2) all decisions as to its use in joint operations to be made at the aray and air comand level. During the Salemo operations these principles were apolied and as E result a vor", wormble and effective metrod of close sumport was developed. The metrod included close liaison betwem the army and XII ASO, decision by the dir Comander as to the targets to "e attacked, the us of forward controllers ("Pover Joes"), and meetince oetween ifr and Ground to decide on tarcets for the followIns" das. " $\quad$ mine local conditiona frequently modified these practices during the firat ays of thr Italian comeign, they continued to be eaployed and ouring, the reasindar of the your vere feature of cir torce operations. 60

How effectively the air forces contributed to the success of
 operation we have yct launched or wnich I think has ever been launcned on a similar scale $1^{16^{67}}$-_throush their coordantion :itil the ground and revel forces is indicated by the contents of a ressage ironi General Iisexhower to the COS on 21 septeriber, after the Cerman threat to the Deachneca had been repulsed and the dilies had begun to drive Zascelrine's ren fros the Galemo area. ATix roin taugt, the General said, that durIrg the critical stage of a lanaing oneration evere available force including lan , sea, an $\bar{\alpha}$ air had to be wholly concentrated in suoport of the lambing until the troons were in position to telze onre of thenselves. That, he declared, "ost ewheticolli" includer the so-called Strategte Air Force," whose temporme ducrsion fron its norm: nissions in order to nccouplinh the nccessex. concentration resulted in advantases wich wore then comencted for the duersion. Durine the cribicel days of the operation, Gencral Isenbover continued, oven the night borbing =orce contri suted merbedy to holdng the beaches; and he was "corvinced" thut "without the concentrated use of zaval and ir streneth we coma cardiz have sept fron peint driven bech inte the sea. "68

## Sienificonce of the Italitin Cargaisn an of 1 letober 1843

 vas "an imortant and pregnat victory, one deserving a cefinite place in the recorde. . . ." ${ }^{69}$ Subsequent to 1 Dctober $194 z$ no one wovle Eave diguted the validiter of :r. Churchill's strtement. After the fall


of Taplos and Dogria, wich had been corrletcd by that date, the fllies conla liet the following adranteges as accring from the blooder beacher et Selerno and the clow, nerd erive of the Emericens and Bxitich tovard the Folturno-Trigno Iize:
I. The elimintion of Itclian militory restetance and the rucessfol invesion of the manland of Lurope strue: s hecry olow to German prestige end arove the first wodge into mither's Festung Euroua, The wedee wes as imortant osychologleally es it wea materially.
2. The acquigition of the Italien fleet uthout $A$ battle mecnt thet honceforth the $13 l i e n$ would not be required to maintain a lerge navel force in the leditermnean, thus releceing many heavy units for tranafer to the Facific.
3. The Italian currenier cifinated frou action almost 25 aivisions of Itainang in tac Bellegs, which woula force Germany to draw on her reserves to zees the occupied countrics under control. in increwse ix Yugoslav patriot activity wes slreedy noticeable which-coupled uith operations by the Iritish in the Iodecume ond woming raics egainst Gecifn airilezos, boti of which were read: to pe initifted-would place a further struin on Germang's dininalinc rescrven.
4. The acquifition of afiriclas inlon- the esst coast of Italy greatit extended the range of Allied bombers, Dlacing then some 400
 Cnc. soutzem and eastorn Cermar. Direct norbine sumport for the Eed Arne movine into Fumate enc Sulceria was possiule. The Tloerti ofl fieldsand the Ianke suoly route were nov vithin eas, bombing range.



The fubure air offencive fron the lfediterranean henceforth could be coordinated with operations from the $\mathbb{N K}_{\mathrm{K}}$ aginst Cerman centers of heary inductry, aireraft nroduction, manitions plents, shipyards, subrarine pens, rail commuicatione, ond other Installations vital to the enenv's war exfort.
5. The acquinition of Sarduin and Corsice-the former alrpadre in Alied honds and the latter virtuelly somwas of grect irmortance. 3oth islands occuried excellent positions reozranhicalls. Zrou thom, light namal forces could flank tho dzis coistal trade and sea commications petween Sarneilles ano Fome and Irom Garseilles to the west. Their air bases would ensole bombers, with full fighter cover, to hit tarcets in northern Italy and southern France. Iignter cover from Corsica could now be given to any future amolibious operetions which might be projected agoinst Italy north of Rorae or arainst the Elviera fron east of arseflles to Genoa.
6. The Fusrian front was automaticelly strencthened, as the Geman reserves whicn must no' be used in Italy and the ralkens would no longer be araileble for use on thet front.
7. Jurther Gerran forces and equitment henceforth had to be used lor strenethenin; defenses all the wat fron the Wich:-Spanfin border to the enstern snores of tice Aegean, for the entire northern ghore of the Sediterrane: $n$ was now volnerable to illied bowings end Alliec samdngr.
8. Ire Allated succescos in the "editermanear enhanced the prospects of an Allied cross-Chanel operation: ${ }^{70}$ first, beceuse it nade the : editerrancon virturily an nerican-3ritisn loke and thereby freed

men, shatps, nac plenes ior ewloynent againat the onemy on tho Atlantic sendond; second, becnuse it offered a dowole bombing threet againet Jrance as well as acainst the Gerusn var potential; and, third, because it opened up the gossibinity of an invasion of southern France which, With the cross-Cnannel invasion, would throw a plreex movement acainst tho German arwies in Erance.

After 1 Cetober it becane tho task of the Allied forces in Itely to exploit these adventages, the cround forces by continuine to arive rorthrards until et least Rone wes in sllied hands, and the air forces by contimuine to surdin at the Germen wer strencth both within and beyond the battle area.





Chanter V

## 

After the zifth and ildeth inmics had cepturcd their two nain objectiver, Maples and Fogeiz, they continuec to press slowly but sterdily up the peninsula. 3y the end of the first wee: of Octooer the Fifth Arry lay elone the left beniss of the Folturno and Galore rivers to adove Zenevento; there it joined the Tichth ixw whose line ran stratent to
 by an amphibious operation. In filied hanis verp Caserta, Cama, Pencyento, Yolturare, Serractoriola, and Fer olf. Detween 12 and 14 October the Fifth irmy drove coross the Foltumo, and oy the 2lst the Henth had adraced to the Lover reacnes of the Trigns Fiver aoove
 supniy center at Iscmia. On I lovender the battle Ifne ren roughy Frof Ifondracone, on the Gulf of Geta, to anote Feano, Piedimonte, and Botano, and thence stratigh across to tae firictic at the mouth of the Trigno. The advance hod been alovin the face of intelligent and stubora Germin resistance and acainst the obstacles imposed by mountannous terrain, rivers, blown brioges, and incadequate roacs.

## Zirst Phace: 1-3 Octe"er

Iruring the firet pnase of the Fiftn irmers Octover operations, that is, the drive to tne Voltumo, both Tacticnl ind Strategic aided the advance, Tacticel by fiving close sungort and stretesic by continuige its prograi of crenting blocks alon the Tolturno. Tne period was

Ieatured oy bad weather--e aild introduction to tae mexeole weather of the next six months which would give Italy one of its worst winters and would both seriously reterd the progress of the ground forces and nandicov ana linit the operations of the air forces. ${ }^{\text {I }}$

Strateric in. Eorce. In spite of the weether Strategic hrid a rost succesarul wee: betveen the nigit of the Ist and the nifht of the 8th. On the nignt of $I / 2$ october 'ellingtons attaced the bridees at Grazanise and nit the Porizia const road, and on the 3d, $3-26$ 's pounaded a convorted reil bridge northenst of Cama and a reforted pontoon bridge at Gastel Volturno. After the 3d the bombing effort wis concentrated farther noxth, alone the eneny's second line from Fomia to Isernia, the Fifth irmy having rached the vicinity of the Volturno. Ahree min roacs ran through thin second line and into the battle area: the coast road through Terracina and Fomata, the cember road throngh Arce and :3enran, anu tno inlond road through Isernia. SAf went for all tnree in an effort to cut the Germen supply lines. Formia was attacked on the night of $4 / 5$ and on the 5th and 6tn, a total of 17 , tons of bombs Deing dropned. P-38's attacked the bridges at Arce anc Isoleta on the
 north of ilemano and two overpasses to the nouth were poundee on the 3d, Ath, Eth, and oth rita 200 tons, and on the same daye the cinosenoint fnd roads at Ifernia werc hit by 104 tons. mesp attecis (all by nediwis and ilater-bombers) stonned almont all traffic on the const road, sloved up traffic on the othor two, and so jammed enery $1 . /$ sis
thet units of anz were nole to clatm the dectruction of nore than 400 rehicles.

Attaciss on lines of comunicetion closc to the battle zone were, novere, only one of a number of varied orertione cerried out by :AAF quring the weet. Fail centers in northorn Itelt were reided, Gat airfields in Creece and severnl iegean istarcis were blitaed, nortiern Corsica hat poured, and-for the first time-mwelfth fir Force heavies vent all the way to central anstrie to strine at the circraft fectories at Wiener Zeustcdt.

The rail centers in northern Italy whicn were nit were se:* spots in tue movenent of vital military supplies to the German army. The $\therefore / Y^{t} \leq$ at Civitavecchia, PIse, Bolosna, an3 lestre and the rail bridee at Bolzano all vere rendered inoperative when iellinetons andin-lis pounded ther with a totei of yla tons. These attacks brought out such an unusually strone GAF figater reaction trat on the night of 5/6 Tellintons aropned 32 tons on Grosseto A/D, destroying 11 aircreft.

Photo recomneiscance nate revealed well before 1 Octoder that the Wat wes builaing up its fithter and bomber stroneth in Greece. lort of The planes (arowd 250) were concentrated on fields in the esstern part of that country, the remainer (gout 100) being to the west anc around Salcnita, and on Grete ant the Docennese. The presence of these planes posed a double thrent to the Jilies: first, the fields were close enough to Itely to serve as bases for stteck eqaizst enstern Iteig, espeaiclly ecoinet the atrifinds sround Pogite and geinst tho vital port of Beri; secord, the increased nurber of alrersft endaneered Allied

holding in tao degean (the I:Irnds of Cos, Leros, no Sonos hr recentiy been occupicd by the 3ritisa), and inlied soinoing in the marrov part of the llediterromm between the Grenaican bulge ano Orete. Jetween the stin and the 8th "hivent for the larger ficjds "in a quice destruction effort, ${ }^{2}$ aropping tnousencs of irags and seven inundred tons of Gi Dofiss on Argos. Athems/Satoi, athens/sleusls, Hereileion, Salonitea,
 nlenes vers destroyed of dorizged and hangars, runvaye, and other installations wers well covered $\mathrm{b}_{4}$ tas $3-24^{\prime} \mathrm{s}, 5-25^{1}$, and $\mathrm{P}-33^{\prime} \mathrm{s}$ witing the attalis.

In orier to counter the throut to silfed chipoine presentad by the G-G unts besed in Greece and the fegem, and in order to be in o better
 rougs and ons P-38 grow :cro tranaferrod teporicily to the Zengani ond Gumbt arvar during the first weel of Cotober. Shorthy anterrards


 operated Sor only four davs, 6-H Cotober, pefore retuman* to Tunisia; in thet tine it fleu 121 norties, nost of thea as arrar for Britiah convors, and shot dom 17 enemplunt all of then anting one mission. ${ }^{4}$ The neariss and ratur conthued to operita ovor tho enstexn "editerramen throughoat the monti.
 harbor viti 53 tons. Jo furticr attaces yere peosssary, for after the


4th the Anlier held the entire izland.
Proocol, the outstmaning .isston of the ween was that flown zainst infencr "eustadt southuest of Vienna, on I Octojer. The orizinel plan called for four groups of $3-17$ 's to attacy figater afrorut plents at $\therefore u_{\text {evire }}$ nd five crodge of $3-9 A ' s$ to attact planto at 'iener leustedt.
 acoordingly, man oif them attacked altemotive targets at Gundelfincen (Sermar) and Irato and 3ologno (Ttal:), and a fer others boubed transHorts cad barces betreen Corsict and The. The E-2A1s sucaeeded in lociting "ilener "eustad nni droned 137 tons of bsabs in the taret trea, carr gin $\quad$ z large assembly shop in the nirframe worts end scoring nits on one side of the Eenschel and Steyrulainler works, storage areas, a hengr, and near-by railvay lines. Jot' nissions ran into vicious fighter ophofition. The Zoxtressee vers nttac'ed oven the LeghornTontedere area $b_{t}^{x} 50$ to 60 airciaft, put uith the aelo of escortinc F-33's effht enery plenes vere destroyed and five probublr destroyed for the hoss of tho $3-17^{\prime}$ e shot dow and one missing. The 3 -94's ran ints even fiercer op josition from about 60 figthters, some of whien had 37-inn. canmon in their wings and others of wich lobbed roaket-type shells into the bomber fornetion with considerwble accurncy. Fourteen of the Libertors were suot dow, and 52 wore durged by flat. Zheny losees were undetoruined but apparentiy did not equal the Liberator losses. 5

Tactical Lix Force. Mretici Air Force also enjotred a good wec. Hittyhows, Marizules, and Soitfires bombed and strafed rond moveacnt on


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all roads in iront of the Tighth frys $A-36^{\prime \prime}$ and $P-40$ 's bombed and strufed bridsea, toms, junctions, eners positions, and 4 , whend of the IIfth Aray; in boti sectors shubarb nissions vere flom against enemy trovps, trains, and roun transportation; and the usual defensive fighter batrols were flow over bota armes, as well as the salerno sectox, the Faples ares, and around fermoli. Sone 2,000 sorties were flow, around 400 notor transyorts were destroyed and 300 darmed, 8 trains were shot up, and 23 energy plenes tero costrowed. 6

GE'g mod iurortant job during the wee' vas to assist the zienth
 Gernoli bridgenead, waich had been establlshed on the 3d when the Gritish senced Comandos in the tovm. The tro most critical days were the 5 th 'mi 6th. Cn the former cay Sotufires ma P-AD's flew 450 sorties over
 and destroging 69 vehicles ans dancoing $7^{\prime}$, flying direct-support nissions 20r the ground troops it Formoli, and patrolling the boinb lize and the Pexuoli sector. On the 6th Disiner almost $E 00$ sorties, theny movement in the Tomoli aroa ond from Iscrana to Caleti was attneled and 84 vehicles wero dontroyed and 113 damged. Cn the 7th and 8 th, in spite of poor flying treather, the flehters and fishter-bombers continued to nit trenserert end to protect the ifenth from air raids. On the 8 ta, With the crisis pust ans the ener: ritharaning P-A0's bowod the German escape route throuch Palati and attacived gum rositions.?



41 2-1 -15

One resson for this lack of aetivity was thet on the 30 Dis P-40's hed flown four missions agrinst the Peacsa Inding ground, destrowing 10 enenv alrcraft and armagine $51 .{ }^{8}$ Actually, the Gar showed Itttle signe of acrivity navinere over the Italien front. Several things accounted for this condition. The entire Ger in bonber force had been moved into the Po Valleg because of a shortate of bombers and because of the serious losses gustained in Allied attacis on sirfields. The greater part of the fignter force wh loested Detween Fome and Pistoia and in the IeghornSpezia area, but units in need of refitting-and there were miny-nad peen siaiftea to northern Italy, competely out of range of the battle zone, so thit only a few fighters were left to support Lesselring. In adfition, the car was sufforins fron on shortege of crews, the standard of its crews was 70 N , and e dereatist attitude edsted anong many of them. Snglly, illica bonbings in northern Germent (by heavies from the Un) had forced the Gemans to shist their lacustries to southern Gerany and fuetria; the movo slowed preduction ond cut dow on supplies needed b: the $\}$ in Itale. as a result, the Iuftwaffe on the geninsula lacked tires, enoines, and fuel; furthermore, llifed bombings had caused a shortaspe of ground equipment on atrfields. ${ }^{9}$

The CAE's shortage of fiehters showed un deiensively as well as offenrively. allied hearies and mediums usustly net no opposition, althouch a few rissions were attroined agressizely over northern Italy and over Greece. Fhis ras due to the fact thrt the Iuftuaffe did not have eqough Aichters to reet all atteciss and so was picicingits spots. Hlled $A$ ight figiters met no oposition, anis reconnaissance plenes

sconibraz
encountered very little. ${ }^{10}$
In spite of the Gis's limitec operations lime eliminated a large numer of enemy planes uring the first wee's of Cotober. In the alr d4 Vere destrozed, 9 pronably destroyed, and 21 damaged; on the grown 22 wexe destroyed, 13 probably destroyed, and 15 dameged. Three of those destroyed in tho air were snot cow by Faf pilots near Oran when the Luftwafie nade its first major attacin on an filied convoy since ingust. A seconi raid on shippine was nede during the veet, this tine off ompe fenes (between Oran and algiers). The bombero cme fron the IstresNontyellier arca in southern Srance. Jeither raid did heave damge, only one sisig beine; sunk. ${ }^{11}$

During the veet the Allied occupation of Corsica was completed. The Islong had never been worth much to the Germent as an air base because Saxdinit: was closer to targets an aroth ffrien and Sicily and to convoys qoving throush tio central :lediterranean. Consequentiy, tie Gat he a used Corciea mostly as an interaedtate landing tround for bompers en route from couthern Jrance to Italy or retuminc: from the $10 n$ filight to Sictiy and "orth firica. ${ }^{13}$ zut the ground wor' done by the cas helped risin to set up bases along the east coast, and Dorsict som becane exiromely ueaful, tine sare geograpaic location wich nad made it of little value to the Gemazas moting at of great value to the allies for operations ageinet southern Trance and northern Italy.

Soon after the laland fell, the 320th Gervice Group arrived, set up Aynceio, and begrn servicing two U. S. Equarons of the 350th zigater Crow, 6Bd Timater ifnc. sir ecilvities from the islend yere limited.

Restary

however, until Decemper when the 53d Fighter Crow (U. S. Spitilres, OAFs) degan oporating from 3orgo and Oaivi. ${ }^{13}$

## Secomd Thase: 2-14 Qatoper

By the 9th the Iffth irmy vas well established alons the left ban'z of the Volturno and the $Z 3$ gntn was ready to drive toward the Erigno. Sut fron the $Y$ th to the latb heaver rains and extensive demolitions so hampered the Allies' adrance then the projected crosente of the Volturno had to be nostroned and but littie procress could bo made toward the Trigno.

The weather shrmpr limited air operations. Over the eustern battle area, hoverer, DiF monced to ect in some licive arainst exemy movements and gun position*. Fignter-dombers operated between Germoli and Pescara, dentroyine sovercl loconotites ane ruilay traciss and a number of road veniclec and shooting um gron pocitions, Suitfires continned to patrol the bomp line and the Fermoli area. Suall groups of Seltinores bombed oun positions in tne battle zone and roads at Fasto. fung eifroft were still offerin; almost no oposition, only one combat occurring; each side lost one pline.

Strategic's operations against Italian taxgets were conifined to two attaci:s on roods in the rear of the eneay forces facing the Fifth Army, "ellingtons hitting Formis cin Eexracina vith 117 tons. Trectacis borbers were more active, small grows of 3-25's bombing roais and junctions at Tairano ne Piedinonte and troop concentratione st Dassino and Nondragone at nisht, and hitting gun poritions nex =1smataro, Zastorano,


patrole werc carried out as usail. The only combat toor place when patrolling Sitifires intercentea 10 Me-10y's north of laples, probably destroyine ong without loss to trenselves.

Stratecic made up for its limited operations over Italy by hiting nerd at tiraromee in Greece, Grete, find Ehodes. Tarlssa, Argos, Salonika/ Sedes, and Athens/mleusis in Greece; Maritza and Caleto on Rhodes; and
 Arowd 410 tons of $\mathcal{P}^{*}$ e and 2,500 frage wert droved, ith good rerulte. F-zir accomrnied the medums, but the heavies fleu witnout escort. Theme plens offered oposition only over leuris where five were destroged, without lose to the illies. On the loth Athens/Tatoi was hit by $603-171 \mathrm{~s}$ 0rojping 112 tons, and trazos by 17 orcpoing 51 tons, while 16 F-SE's bombe intimechia. A 30-minute running firat featured the attack on athems/Istoi, four enenu planes out of 20 to 30 beln shot doun. It was befieirg to zppear that the Gas would put un better defencire firnter effort over Greece then over Italy desplte an inerease of fighters in central Italy and Geruan nossession in northern Italy of may former Iar glenen.

The series of illied attacke on orectin ririfelds resulted in extencive damge to fields and instaclitions, and at hthens/fatol 21 plenes vere destroyed and 8 damed out of tha 65 pianes present on the eirsome.

Cn the 17 tis na leth Strafegic flew no missions excoot for one attacis on the Sorfu/Gertisa $A / D$ carried out oy $363-35$ 's escorted by

48 P-3B's. The field was vell corered by the 25 tons of frags winch were unlooded. There were no encounters. ${ }^{14}$

On the night of 12/13 October tine Elfth Array launched a full-scale attace, alone its entire front fron the Pyrrienien Sea to beyond the Junction of the Volturno and Calore rivers vith the object of crossing the Folturno in force and sattiac un a briceenead on the ritht bent. wericon troons (VI Corps) on the ridht flave wet limited reststence and made good progress, but in the Govar area the Cermans remolsod the main aritish assault although the left flank of 10 Corps forced a crossing oet:teen Goncello and the sea and an amphibious end-run around the mouth of the Volturno was successfully nede. 3y tae 15th all three of VI Corpal divisions wero maniar tood progress, the 3 and 3 ath being firmly
 above the dalore) having driven well towad the Volturno velle: Fwo of the three divisions of 10 Corps also were acrost the yoltumo and the third (the E6th), wich hed beeh storped aoove Capua, was ready to eross forther un the river. For the noxt weel the zifth Aray slowly pughed onc: Zesselring's men despite bad veather, heavy denolitions, rucged terrain, and rosistence of "unparalleled ferosit:" ane $3 y$ the asc the entire line of the Volturno and the Iend mens benind it were firuly held. 15

It hed been expected that "ain's full grength would be throrm agminst the encay in direct and seatdirect cooperation with the crown assault, but the contimpance of vad veather so limited operations that the supexior Ailied cir etrencth conld not oe used decisively.



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During the critical nart of tho Finth Amg's edvance, tnat is, from
 complotely stopped br toe veather, but they monged to got in a fey olows aceinet commicutions in the rear of liesselring's lines and acoinst tarcets uithin the battlo zone. Attacism-all on e smil senlewere delitored eaingt the Civitavecenia reiltar oriages, Alife ${ }^{16}$ ( $n$ Germen strongnold in the path of Vi Gerps' rigat ilank), the Eessa
 Tairsno and Caxinola (ahead of VI Corps), ralluay traces at san fiano romano (betreen Pono and Fieti), the railway end the seaplone base at Orvetello (betwen Eome and Grosseto), the pricse and railray south of Fimmone (northreat of Nome), and the if/y's at Porni. The henviest of thesa attaces was acalnst Forni, where 34 3-17's aropped 103 tons and -here inlied bomere over Italy net their first opgosition in almost a weer (and the only opposition during the period $13 / 13$ to $14 / 15$ ), 30 to 40 enemy ficaters attceing and losing two planes wile skootine cown ono Fortrese. This geries of sttecies on lines of cozmunicrition was


 hamering the encers entencite night moverate.

Facticol misgions oginst targets in the bettle ares vere flom by
 Conua and ventcle conerntrations north of Cancrilo anu southest of Zomicole, were bombed and strafed. Thete ratce zero, bovever, on e


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smoll secile, pot nore tican 105 sorties being flova.

- AS's activities vere about an restricted be the wether in the \#ifoth fry scctor as they were over the Firth Aray front. Stretegic attached the Cuiliznors south bxidge with 33 tons and the railuag and nigivay bridges nem Porto zon Giorgia and glone the coagt road north of Pescerc with 111 tonk. There attaciz vere deagned to block the Ancona-Fescore-Fogite line of colmuniction, this being the eneny's only prinary line of supplies on the east coest. Firnews and rithonexise boabcd and strifed trine north of Fescara, destroying ife locomotives

 the bamb Ine without incident.
 out two attack durine the period egeinst the CAS in Grecee and the segon.
 enent pleneg were destroyod on the groma; et irgos the finde was well coverd cad tro flres verc startcd. Over Argos tho escortine $f-3 \theta^{\prime} \mathrm{s}$ pncountored 10 to 15 encmy planee, wih enciz ofde losing two arcraft.

Turing the two dore the Gis mustered sore offenive netivity than usual. Cn the nfant of tre Ifth an entilcted 20 Ju-68's and Io-217's raided tiaccio airdrome and haroor but aic no damge decoite comine in Ct the munvally lo: altitule of 1,600 feet. On tie 1Sth fishterDombers were active over the Fifth hriy front. Thin was preliminexy to the hesviect GAF fichter-bouber operations since the first weel of $\therefore$ Tiburina, around 75 sorties beine flow on the 15 th and an equal numer on the 16 th. These raids vere aginst bridges and other commicetions

around Caiamzo, above Gagun, and in tha upper Volturno Vallay. On the two dnys Soitfires dectroyed 11 of the reicers and dareced 8, whout - lose to thenselver. This rough reecption, plua very bad weetner beginning on the 17 th, so redrced the enecy's efforts that for the next week precticalle none of his fighter-pombere were active, ${ }^{17}$

## Third Thase: 15min Octaber

Enctictil Ais Ferce. Frar tho 1 th through the $22 d$ the weather con-
 the Iffth Arey ucs consolidoting its 7olturno bricecheeds, the weather was nore fovorible for fichter and fighter-bomber operations than it had been on the previous two dars and a-36's put in a total of almost leo sorties, hitting the rifluay yards at Sparanise, buildings ane vohieles ft Vairano, and roads north of Gancelio, vect and southeast of flife, north of Deano, and southvest of Sosce Aurunce. 211 of these tergets vere along the highvown lecding fron Fome into the foliurno area. On the IGth, Oisterna arfield was strafed. Cn the sane day En's mediuns (whose missions all hud been coortivo on the 15th) scecessfully attacied Alifo, Intina, ant sparanire, and its Maltitorer hit Fenatro (eart of Cassino) and the roecs at Teireno, while A-20'r taso struck at tho "rairano roads. In dil, the natums iler 3t sorties and the light bompers y6. Zortons adied 16 sorties in nifht attocts on roso one rail junctions vetween Fome cna the 3 ifth Aray bombline.

Frow the 17th throuph the 20 th pas continued to better roede, mil Ines, eni torns in the area innedintely north of the Eifth ingy. Meny


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of the alsslons were abortive becase of clowd over the trargets, but B-25's, Brltimoree, and A-zO's hit targets in an! around ilife, iquino, Cassins, Mgnano, Isemia, Zoiano, Serracins, and ingio; Boatons intruned at night over the roads froa Fone to the boab line; nid A-30's and $P-40^{2}$ Ilew more than 300 sorties againct Teazfo, Vairano, Zrancoliso, Fratelio, :Inturno, Fratella, Eellen, Erce, Derrucina, Dietratiaino, Sessa surunca, nd Palestrina. Shese targets were on or
 Sarua.

On the 31 st , A ba the veather botter than it bid been in 10 davs, Lists principel effort wes dracted arainst the Cascino area. Thirbythree $3-251$ s hit Gassino ton and its fards and brides, 36 A-20's out 71 x 100-1 . ombor into a Givounc nrea between the railrowa and the tom, and 23 antinores hit the mein roed and starbed fires in the reilway sards south of the trm. $F-40$ 多 and $A-3 e^{\prime} s$ sadeat to the day's effort ctainst lines of comunic.tion by boming ratlrowd bridges south of Cascino, tho orlige over the Garigliano belov: inturno, a railrosd and rosil junction northeast of Ferrecint, mi road junctions anき buildings at Fairano, Fratella, and Iftano.
 trations south of San Salro, a bivoune area at Ssataloupo (avove Boiano), and the torms of Tenafro and reano; P-AO's bombed and strafed Vontenero and roids and gun positions sround comrititi, San Galyo, und Zoiano and put 10 direst hits on a bridge near Duntaloupo; and a-3G's boinbed a bridce and gum position at :Inturno and strafea :/7 near Cerveteri.

$\rightarrow+\infty=-\infty=-\infty$

TAS also seat inthor afideld between the 17th and 23d, hittine the
 near-by. The imo'g wicn carridad out there mscions destroyed some 30 enemy planos on the fround and dangel way others. Inttonais bombed a bunel southenst of Tromia which us surpected oi harboring a railway son.

Fiwt fichters fleu patrols over the battle aren, carrifed out tactical rocomaissance, artillow gottins, and escort and ficituersweep nisclons, and providel cover for shipoinz alons tho coast. A-so's co-binsl bonbine and niciolling in the Cassino and Aquino areas.
 to thowe in tho weaturn sector. Bostons borbed railw
 alone the coast ros, with parbicular emhasis befng raid to areas aroma Pescirit, Tasto, Gnieti, and Castiglione, the oivject jeing to finterrupt Eesselrineta one fool suply Iine into the eastcrnmost part of the battle zons. Soitfires, Narnwies, and Zittyomiss also vent for the supyy routos, flying offen ive suecps y ma dow the east const almost to Ancona and atrixing herd at loconotives and cars, ruilus lines, and $: / / \mathrm{s}$. Other Wexhatizs and withemors operated over thon arintic. ${ }^{18}$ trying to Interrupt German sifiping to Italy, Greece, and Jugostavia, js exmples of thoir operations: arinvirs and P-30's swoot the Yugoslevien const, nittins mercient vessels near gilit and in the Levites CnonneI; and tittohatime attacised burges in the harbor at 3oneaetto.


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In moro airect cooporation rith the tiehth Ariny, thrhews and Fittonaiks went for gat positione and troop concentrations sud, with Spitfires, flew cover for planes of 733 and patrolled tho battle erea so effectivel: that fei eneme planes were to be seon. 19

Cone of the most interesting operations which oxigingted fron the
 went on a mission to aive-bond terchint vessels in the Leviras Chanel. Lhe Licatnings wero escortea by Italion pilots flying haceni-205's. Fnis
 Ltaliens had been training for operations with Mistr since shortly eftcr the surrender of Itely, but their actual participation in the air war against their former allies had had to awaft an Italian declaration of ver on Germany (which caie on 13 Cotoncr) as well as action by ABE. Farly in Cetoocr plans for the empoment of the fas vers wowed out, SHis decidins blat nom five squarons of fichters, one of bonbers, one of torpedo borberm, two of secplenes, and hati a squodron of reconeism sance aircraft vere to be uscd to the maximul, with nogt of iteir operbtions to be in support of the Itclian awno forces ond the zalran petriot torcon, as couricrs, did for air-sea recene. The servicins of mines of


 percomed, mon of whom vere specicilists from the old Fegin Aeronatica, proved to be expccialle valueble to asin.

Tho actitities of Facticel caring tho rorining part of Cetober


200

22a. Dortons ilw recular nightly armed roconnaisnance minsions, hittinés

 and veltitores attucied strong-points, briager, :/7, stores, dupps, gun yostions, trocps, and rade, and set up rosd blecks; A-3u's bobibed and
 nlecemote, firdromes, wai troop concentrotionc, cux flev "rinuberos";
 hit gun errolacercnts, reilsirs, roads and rocd furctions, bricies, exd
 chiming, roder atationc, bricges, airsialeg, and gun positions, flev escorb and defoncive patrols and ertillezi ana tictical reconntisance, cnd covered aral verself chelling the coast.

Cn some drat the wohtor wes so bad that wh's plenes were not oble to fly many corties, but there wae never a day when they failed to reoord at least a jow blowe ecinet the enome. and at all tues they were zasters of the nir over the boitle zoner. 21

Facticol's operations ageinst comanicetions wero restricted to tarecto in the area south of a line runnine agroximately from Now to the northeast. Snis war in secordener dith the Comander-in-Cnief's policy of dividing the operations of fectical and otretegic along ceocrohic lines so that Stretcele nowally would be rolleves of attecling targots inich could be hit or 235 , thue allowing sas to fulfill its nornat functicnis. 32

Stritecic in Fonce. Stratege's activitien during the lest two


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weeng of Cotober fell into tro tirne-divisiong. Trom the 15th through the $2 e d$ it operted ecrinet linen of commatention folmoct altogether railor lince in contral Itely, ncanet commicotions anc oirdrowes
 in tho Fowe arec. Irom the 23 d through the exd of the rontb it continacd thee threc tives of operetions, but most of its issions zero actingt comuntertions in Itsix. Fhroughout the entire period of $15-3 \mathrm{D}$ October EAT wor wore cotive thar it had been durine the first half of the month. 23

Operations necinet conmanictions in central and rorthern Italy vere orincinalle audinet ef group of oridges in the general area between Grosneto neer the west conct and the aren south of Ancono on the eest
 the old and lone-torw policy of continuely bonoing ta; marekulling yorde es a mena of stomine the cherys moveant of surplics, equipment, and nersonnel oy rail. Now, horever, thet hethod of interdiction ad not epocar to be the moft locical systom. It was entinatca that the purely ailitare nocis of the encry could be sumpled $y$ avout $E$ per cent of the normel rail traffic inon contral Italy and the Fo ralley into the pattle area; wecoraincly, to reduce arraticelly the energ's flou of reinorcerents and swonlies it wes essential to cut as meny raileay Ingen os noseible, to cut then es nearly sisultencovaly as possiole, rod to out ther quici-l. Nio most logical way to accomplish thin wis be knacing out bridees and vinarcible sections of trac: which were so Iocated thet it voule be dirficult to reseir the lins.

Such a proctar wos more fearible-nna mare logicalmat this stage of the come then it hed becr a month earlier. For one thing, the rail

limes from the Po Felle: into centrel Italy ran throwh nountain passes or along a marrow strin of the coest, and in eitker casc they ran through narron defiles, crossed trasverge atrenus on bricges, ran along the sides oi stecp inclines, ani pussed through tumels. at each such point the lines were vulnerable to, anc might eadily be blocired by, accuraje bombing. In mang ingtances, in ftet, $x$ line micht oe missed by of borit ox scalvo pet would be blociced by a lacislide if the bombe hit anove the traci. For anothor thing, there were more marenalinis: rards in central and northerr Itale thou there had been in southerm Itale, a fect which Ende it more difficult to intercict traneortation in tne
 much better located for trins to the regiens above a Fome-Pescara Ine

 iere in the Dfoseica area, neex funts, bat fere preparins to fove to Eecimomanu and Tillicidro, serdinia; 24 and thoy, too, were rithin renge. Whe E-35'g vere scattered; Dut only one grow tas in orth firice (at Ouana), wile to were in Sicily, and one was alreray on the minlend ot Crottaglie. On the two in Sicily one wos alred: roving to Gan Fencradio, Italy, and the other vould nove to Iogrie Iran during the

 of Pail figater encorts wero on the rajnland (as wore सS' east-coant ifghters, with could fly escort beyonc their rector when necessary), all of them uithin rance of tho bombers' objectiven. ith the acenation


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of the dirfiende of the irples crd Poctic comperes raid around Grottaclie and Lecce, tacre vore argls acconodotions for all of the plened wich currentler necded to be based on the maintand. 25

It yovid apmear that whas decision to thro: a large part of Strategic's oporation into a cranich ceainet the oners's swiply syetemcnd agoinst bridges in purticular-was in kecping uith the thinnins currently coinc on in the mand of hygher autnoritien. Fear the cnd of the month Genoral axchnil cabled Ceneral Fincrihower some opinions reletive to the emloyment of bombers in the iediterraen. It nopeared to Ceaerel Larehall thet much of the succoss of the armies in the Fiomisian cermeden had been due to the use of hecter bomern to atarut the enouris sjaton of supply at long range wille using mediur bomoors and snort-range aitcraft to destrof the enerig figntor force, icolcte the bettle area, and then attecs strone-pointe, and that a sitilar coplication of the air ioreos in thaly romad conteve linc recults. He cuseested that the ure of HAS's hecuien recinst Gemon sumpry lines entcrine the Fo Taller would
 culty of closins all 9 rail Iines into the fol wes anprecicted by Gereral Yarchall, so he suagented thet the simultaneous destruction of sercral adfacent bridees on each rail line vill stop traific for a long time," The arivence of the ground tronps could be cufficiently aiced by "incressed opcretions of your nediun and whort renfed bombern and fighter oombers. ${ }^{\text {wh }}$ Dr the titie this mograge arrited in the theater Luta's progran of briuge cmening alrecdy had been in opertion for 10 eayt.

Stratesic started the ascault on the oricges on the 19th, $\$ 7$ and for

five dewt thene ley links in the contrel Italion rifl system took a hard beatinc. Bridges attacked alone the west coast" route included the one at inontrito di Castro, one nerr Grosseto, the iloinia bricees, end the bridet necr Orbetello. Along the centril linos from Flarecee to Pome, Tha Gicna amd Perugin, briages north che soutcecst of Orrieto, bridgen near fontupencente and larscinac, and the visduct at merni vere pounded. Cn the enst canst several oricger below inconn and the brioges at Guilianova and Civttunove vere ettcoted. In all of the raids iron the 15th through the red around EED sortics were flow and 1 , 2 E , tons of bomos
 tho blitz. Imoro vas extencive, deing porticularly severe on the bridice cround Orvicto ${ }^{\omega}$ and in the Iontal to di Castro, Eluinie, Gullicnowe, and dequpondente oreas. In addition, the aporocohes to these and the other oridrec ware blocied in almort all instences. The net reanlt was the inicerdiction of firtualy all rill tranmort north of the Eowe area. -hich forced the enow to resort to an increased use of notor trenarort shd cotstal sulyping-*inioh, in tran, werc attecerd (as noted above) ber licht and fighter-ombers as they moved into the region between or edjucent to the severed lines in central Italy and the bettle zone.

In these aiscions only a fev formitions eqcounterce ensar planes. In only four instances üid decirirc enagenonts dereloo, sun in eech
 dentrozed nad about an equal nuber probably destroyed or domeged; an

 exmple, the zoth 3orbardnent Frow (if had 10 of 15 plenes holed py


Al fire on the venefro cifsion of thet 2ed. 29
From the 23A through the cnd of the month Stretegic devotea most of its rissicns to a contimution of the previons wee':'s attacks on Ilnes of commaication in general and bridges in perticular. The weather was alternetely good and bad. It srounded all of SAS's bomeers on the 27 th and $28 t \mathrm{~s}$, 11 nited trem to one mition on the 26th and one on the guth, and forced a large number of micsions to return ithout havlage bombed tho primary target (although in some insbunen altemotive thagoto vere hit). It peratted, howorer, sprertil daga of full operitions. Jargots iore in three crows: those bebwon orossoto ans Aneons Which had bean the tugots during the freceding weo's, if ner set of obScotives much farther north betwoen Fistoide and the French borior, and a couple of targets on the const abova and below fome.

In the first growy of targets 3 mas's and 3-20's hit the raileay
 the bxidyes at liarscionn and the riadict at Serni. At tho two latter
 and roads noar the oriacry taret and by the deatruction of sous five engy pleans whem the GAZ attocoed in sarll numbers. iellingtome hit
 toon port in the six aissions and dropped 315 tons of barbs. The second (rous of nommicetions targots included the important trangorbetion and shimping polabn of ristoia, Genou, Inperia, Forto Lunizio, and Taruzze. Exeept for Pistoic ail rere along the cont of noxhuest Italy. Cenpa




 which unleaded 60 tons and acored direct hite on the inguldo steol plent, cunging flros and oxplocions. The Pirtoi: :/F's rere blasted by Fellingtons, fires and ewplosions bolne obsemed an observation shounn:
 78 tong frou 26 2-1\%1c, nita boing revoried on an iron wories and wrehouses and itthin the port axti. The attacins on Inparia and Porto
 In this acrion of mads 934 effective sorties were flow end giv tons of voubs dropped. She third got of tergeta consisted of two ports in the
 whis dropel 53 tons and reored 7 direct hits on railwws and varehouses; the latter was sluseat by 35 2-2b's woss Ep tons covored the dochs, comploty deatroped all builatues on the north doct, an hit severil cmall craft.

Stratesic's operution fros the 338 through the 31 at Ageinst comaunications were sup leagnted by totbura ond fightor-boubors oi Jactical. 30 Z-35'n created rond blocty, espeatolle around Format and Zrosinono; Zostons hit roods unt oridges, particularien oround "airano, creoted rood blocis, mat attacled bridet nerr "inturno; and A-35'n bombed brides whas the enst const an arowd Frateils.

In thene angsions, by both Strateste ond Lactical, encry orposition :Ws porwitc and on a emill scsle. The only tajor encounter was ovar



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battle which cont the Gerung sit planes destroyed, five probobly desbrozed, and four dunged cosingt no dilled losses, and where tha escort-
 an missing.

The regult of thone attecis on sungly routes was a continution tgainst the lines aoove Fome oi the interdiction wich had been orented by the attacis from the 15 th throug the 2ad, and an extencion of the interdiction to faclade the most airect ling of comimiction fron Fone to the 1:mortcnt induatrinl centexs of norburest Itale and to soutnern Prance. Incidentolly, the bonbings around cenon and I peria helped to ereate in tho ainds of tho Geranne o concern waich wrila altoys be present, dom to the fer: end of the Italian comaien: thot the inlies world leurch an mphiofous onerition agangt the axe between La Spezia nd Inorria.
 Iast two veeks of October confintod of conter-air-force operations. Thece wero directed a aingt the fields in tho cenory vicintty of Fone and wore dealoned eithar to smach the 043 fichter forces which were operating both offenstrely and defenfirely fron bases in thet aren or to torce them to withdra ferther north (nt least an far as tha Gronseto comaner) Where thes bould poss auch less of a provlea to the illied croud and air Sorces.

Marclaciian and Casale ench vers ettacted twice and Cerveteri, Iurbara, end culdonir onco, fil of the fields were single-englat fighter basen, the Gut donia fiold only recently howin beosae funortant. ine


flonn ond almont 400 tons of borbs dropget. Around 40 onemy alreraft were deatroyod on the eround and setern wexa dusced, the fields were voll pontholed, and a numbr of inctollations were stursed or burned. The last of this serien of attocien was yote on the ni eit of $3 x / 24$ Cotober. Fhere was then $a$ bren' In Stretegict boabing of airifelds until the night of $30 / 37$, when 37 i.ellimitoms attiselad the Ju-83 base ut Porucia, about halfor betwosn Eone and Elorence.

The counter-ar-forse operstions of the heaviss and mediwa rore soppleanted by raile conjutied by ame's of dir Sumort Command. Tarouinie $A / D$ ad a near-by linding grouna ( $I / G$ ) wers attaciet on the 19th, L/G'a near lequapealeate on the 24th, Siruquiz ecain on the Deth, and an $I / 0$ wost of cutri on the 20th. Sumler-scale bombing and strafing attucles vore mido on tho 28thereinst fielas near Civita Oestellora, Cervoteri, carquinis, and Titerbo, dil of which woxe in the fome crea. In all of the raids 19 eany plenen vere claimed as dostroyed ond at
 by i-20'r, which hit fisldant Cessino and aquila.

Strategic's third major gryo of operitions durine. the last kit of the month was atrected wginct the Balinin and Greece. From the ISth through the 20a, lines of commicutions in thr falwane recelfed the rafor attention. Hordect nit wan SEonye-a hoy point in Yugaslavis on the lighmenonise rilway and the control point for all traffic from
 on tho 13th and Dr P-38 fighter-bombere on the 2lat. The attac: on the 18th ias the first USA' effort againat a Mugoshrovism taryet. 31 In
the two raids 36 2-25's and 44 F-3a's paticinated in the bombing. dropoines 45 tons, while inother $20 \mathrm{P}-33^{\prime} \mathrm{s}$ strafed. In the nombine attaci: 01 direct hits vere scored on the $\because / \Psi^{\prime \prime} \mathrm{s}$, lenving all but 1 trici wnservicenble and destroying 3 locomotives, 7 If/T, wnd I recomnalssance cer and dameging $10: / 5$ and sereral lococotives and ears. In the straf. ind ottac: 43 out of 44 locomotives gresent in the jerds vere reported Destroyed or deningod. On the zoth the $\mathrm{Tish}^{32} 2 / \mathrm{Y}$ 's wers attaclea by 36 3-25's, with fichter escont; 4t tons vere dropped, eutting the main Ines to Selcrale and Sofis at many points and butting may direct nits
 with four tone and left it in flamex.

Iaring the last 10 dayn of the aonen wiv's operations across the Ariatic were dirested mainot cirficids. Thirter-six $3-3{ }^{2}$ 's poundet the ithens/aleasis ifD uth 22 tone of frase, results being excellent. the
 it as an altcrnabe tarcet who Iarisea $A / D$ was found to be overcast), the 23 tons of froze winch wore dropped covering the ifeld and destryyins 13 aireraft. 33 the A/D at Fodsorice in Yuposlavia wos strafed of P-35's and bonbed by E-35's, tith row plenes being destroyed on the
 by 183 -75's, the fiolas being vell covered and 11 emame planee being destroved and 8 cserel on the croma $b y$ the $2,553 \times 20-1 b$. frase which

 butidnge boing thoroughy corcred, fires started, ind aircroft domaced.

In all of the raids beyond the Adriatic thare was no real enery air oprosition; nevertheless, in the attcoles froa 4 through 33 October on objectives in Creeco, Albonia, nod Tugoclevic, the USAAF destroyed 131 cneng planos in the oir end on the ground and tho Ext coconted for nnjther 49.34
 thoso on Greotr and Legean tirflelas, were lest for the gurpose of protecting the +llien in Italy than for aidine the Sritisn who were trine to hold the islends of samos ond Loros (soized in mid-Septenber) arainet GLP rains end the throat of corma lominco. Fae greater part of the $\therefore$ Ilies fif onerations ofer Greoco and the Aegen were carriet out bey
 Grromaies and Combut in order to aid tue nir-wen: liddle Zast; the operations included not only attretss on airfield but on cacuy shipoing (ber Z-25's, itta most dismointinc results, only one vescel being guni and gl dinged). Plone of itgdle Fast adied to the efiorts of the UsAs
 Fine net resilt of these operations wa the dentruation of a lurge nimoer of ons dienes; but Gaf bombing continued ant by the .tadle of rorever the Geriens had asempet and tazen Doth Suos rad Leros.

In edidition to tho three anfor operations by Strategic durin the laet kilf of Octojer, two specinl mis,fond were flow. Tho first was acinst "ifener lieustiad on tha 2cth. Slx bomb croros sont 111 2-17's and 3-sis acainst the tarect, but it ves hidden by $10 / 10$ clouds so that on2y 23 Illborators of the 93 th were able to drop thelr bombs on the


## THIS PAGE Declassified IAW EO12958

NATETE
prinow terget and they did so by detd reconing. Sixteen planes of
 ingtallations at " oenfurth sith excellant resulta. Sine weatner keat the Iuftwafic groundef, sin thero wro no oncomters, zne eecond special misbion was acainst the intheor vieduat in southern Frunce. Ine attacin was made by 33 2-1\%'s, which droped 108 tons, placin; a heever concentration on the pisduct and its aprocenes con scorine dinect aits on treecs and aoming roads that left thed unserflecoble. Tinore were no enoounters tith the GST. ${ }^{35}$

The activities of $x$ H's otncr olementr darins the last half of Qctoder wore in the sano ceneral pattern as during tno last holf of Septemper. Canstal in Force covered convoys, hunted for u-doats, made shinpine strixes, conoucted air-sea rescues, and protected rear instellatlons; between the 20th and 3 ath it begen tawire over frow XII ass the foh of protecting haricors and other inste liations alone the seet cost. İ"if flon caly rccomaisnance missions, sueking out new targets and rcoordine tho Eume done to ola ono. Srooy Oarricx Comand continued to brins in cupolies and to tore out wounded. ${ }^{36}$
 nein offingive air efforb-outsice of the seccen-mese on the nigit of the glet whe three efocrete athecra were made. the hardore at mpies
 irotillations tha the deatruction of a $\varepsilon$ gn poation, but around EO


skot cosin thrco of the reitere, and 24 bestroyrd another. The second

 sne radic-controlled tombs. Two ahipe wore nit, but fighters and in
 on"bridges alone the tolturno, but mparently we not on a leace secie snd dio no matcrifu duare.
 cficrt of the period, about $D$ Ju-E0's attacing Zoples. A vessel was set on fire, but otherwice thero was littic durece and the enemy lost three planos to Zeaufickere of Facticu we Coactal and one to Ah fire. Gn thic rota the luitmite used atrips of tinfoil (cormonly hown as "rindov" or "chaffll in order to upeet tho illisen' reder control.

 Pitth ixuy has crosaing the Foltuma, foll off meter the lath. Zetwega that dete and tho 23a cicout 100 sorties vere alota, but the foratione
 of tie ronth the onciry exfort doclincts still furiber, only a fer suml formbions coming over the 111 ied lixer.

Feicarively tho Cerman iir Force ws not much Wetter then it war
 Tons arce ond in Croceo, not wre then one-fourth of all the ilited rissione orer contrel ond northern Itair, the anithe, and Greece net



3etrech the 16th and the azi planes of laciw and night bomers mot no opjosition; from the 30 through the 3nst they met negligible opposition Eootly in the Zowe and riterbo areas whore come 45 enemy planes were seen. Zecomateanco $=1$ ssicns mot fen enemy planes and no determined attects, although on ono or tho occasione a Elw plene would be purrued by as many es four enesy aireraft.

3y the end of Cctoler the Infthaffe wers established on the new northera Itailen vases to whicin it hod noved during: the last part of September and in Octoder. A11 borbers wora north of $43^{\circ}$, belke lacated chiefly at Bergiro/Seriate, Cencri Mowra, Ghedi, Zervgia, and villafenca. An mifority of the fifenterw were in the fone arco. Finere were a fev figetcre north of $43^{\circ}$. In the Ealitanc and Greece there were still cround 110 理ghters-as there vere carle in the month-obut there hed been some increase in the number of Tu-8E's on Grete end Do-mitis in Greeco, evidently for use acainet shipping and agrinet the Jritich on serersil of the irgeon Arlonds. 38

## Surgins of cetoner Oqerations

 them thes had beon during Sostomber. Shie was due to more dars of bad reather for flying and koabing, to the shiftine of units to new bases, to © creater stibilizing of the battle liner, and to ti decreace in the nced For tecticel coopertion with the ground troopo. It also appears to
 In effort and to the fact that a very larce percontage of coniont men completed their riscions and wexo withdram from combit, ${ }^{39}$

Darin; the $n o n t h$ Mints plones flew aproxirately 87,000 sorties.

 elmont 2,600, folloned by P-38's with 1,600 and Soitfires with 1, 500 . A-36 fichtcr-boabers flew almoct $1,6 C 0$ sortiec. The boabers were led
 rith eround 1,000. Wo othor type flav as mar ns 1,060 sorties.

The total oomece droped wer arow d 12,000 tons, the figure inciuding operation from tha Nicale Gart bex plenec of Stwath Air Force and FAS :idale Jost. Or the total itin unloaded nore then 10,000 tons, fith the USAB scoounting for over 8,000 ana the FIF for more thon 3,000.
foproxinately 160 ency aircratit tere dectroyed in aerial combet, co protably dectroyed, and 60 doreged. On the ground around 160 were destroyed, 40 probably dectroyed, ani 90 demaced. Against these victories AS lort sow 90 plancs. The mpority of the losces vere to flow, for during the month the arinciral Cerun defence aginat tice illied aix arm cawo from outhareroft gunc and not from the 0 on. 60

Tho brunt of wis'e operations tat borne oy Strategic and Fectical uat Doastal cleo gut in a buy worth. Ite plenes Nler 5, gea sorties, of wich 3,132 were fo" convor protcetion, 1,508 were patrole, 387 were
 and 113 vere reconnisscnce rissions. Twensthtwo chery planer were de


 fought pac: cruinct the plenes, Shige uncor manis protection troveled

$\ln \operatorname{los} 5 x+$
ceroxist wix whomenait
arowal $1,400,000$ miles, tith only throe ships boing lost to enewe action. ${ }^{\text {. }}$

Troop Carricer Comithd also was hevily cayged auring Qotober.
 tone of fratyt, and tremenoriod 1\%,069 porsonel. Anons the persoman
 and 2,412 other troogs. 42 Ifgures for the 51 st inne are pot crailnble, But an estimito of its activities (based on tho flgures on the ged 'inns) would indisete that the planes of the tro vinge flen wore than 6,000 sorition, houlod sone 3,000 tons of froticht, and moved around 35,000 pussensors.
"List other cir trungort cgoncy, "ans, by the end of the month
 Irefges per weew. Durins the month it conducted 626 trexic m and 92 sritish flights, plus sowe 40 syccion fil, gits, and extended its operstions Srom sonth Arico to the Italian winlend. 43

## $20+1301-192=$



Caxptor VI


The dictica工 siturtion, Lavenbex -Tecewher 1943
Exing the lad two monthe of the yen the alfth sxay pusheat tovard the Garicliano, "hile tha IIghth moved ncross the Sancro. Progress on Woth Eronts wad clot. Sho wedtar was wat and oold, with hetry rolng nlon: the const ans snov in the montine. Jvexi forward rovanont was


 to a line wich ran frou tho coagt at :Ondrezone northeestrards to Seson, to belou :3garno, one to Castolnuora; the Zighth inw the Zintb at 空zsono, and ite line thom ran alone the right ban': of the
 Gure it turnod alaont me east and reached tia Adristic near anomosia.

In Lecemorr the atranco ung evon slowor than it had been in Yorember.
 hifh cround thicia comincted the aprozehen to tive enemy's Coscino Line,
 Felore the cad of the somth tho Elith had been redieed to rigorout natrolline: thlle its tirod unito regrouped for a urive in January de-
 progross than did tho fifth. During the firgt half of the zonth, activity on the left flan: wis at a standetill biat near tio const San fito ana


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 (on the coust) we coptured aftur a fiuree tatile, but Oracen nrorea too hard $c$ nut to craci: Brerpt for the edvance of the gigath from Foscceamia to dbofe Ortons, tho illied fround trove hat moved formard onle s fer wiles, ad then only in linitel ocetor, sinco the widale of rowaiber. ${ }^{\text {I }}$Iuring roveliber and December the illied air ara, destite sevore

 arch, bjubed and strifed oncaz strong-points, gun positiome, carps, concentrations, und tranrort; attacied lines os comuncetion, infields, production conters, and othor objocsiven in Italy; and even :uent aiter shiping in tho harcone alone the oust ent veat couste. ativis planes also conductst air-sen roscuo, escorted convora, protected Nlied in-

 slavia, and weat far afield to participute in the Gonoined Bombor
 in genoral and air fighter production in particular.

In the nidat of thene varied ectivition, a rajor organizntional chanc vec carricd out. In ordor that wis \#nt bo ajo oetber to carry out its wrious assignoabswand epecially in onder that it mifat niag
 Jitelfth Sir Toxce mas solt Into two six forces. On I Iovember tie Evelfth's henviea, sowo of ite mediuns, and a port $2 \hat{y}$ its lonamana


## THIS PAGE Declassified IAW EO12958

fichters vere removed from its oporational control, but not its ndintstrative control, and placed under the Zifteonth inir Force, thich wes ereated the samo day. Ber this arranecont the Infteenth becane tha rajor comonent of Mas's stretegis cir force and the fivelfth the andor compo mpat of its tactieai in foree, Coustal. Troop Carrier, EPif, Trefing Comand, and the nerly crested Snginesr Domand ${ }^{2}$ were not affectal bex this developusnt, mil Air Service Corman was concerncd only to a mail degroe until the end of Inceaber. ${ }^{3}$ Hor was the over-ajl he fauriters.
 Evelith that it had previounly carcised over tie welfth.

## The Eitecmiz in Fores

Genesic. Iron available Infomption it is difficult to smow the fall store of what lay behind the oetcbilshomt of the Zifteanth Nir Zorce. It seeme certain tiot its creation wor the outrur:th of the settinc up of tiae OBO, end that the Intencas with which the move to create it got under whecorl** Cotober-mes due to the fect thit the whole plan for 02 operctions br aixcrent based in the lifditorrancen was contingent upon fllied ocowation of bases in Italy, a condition tilich was not set until ofter the copture of roples and Jogein. It amears thet General Arnold end, posjibler, Onural grante vere the pringipal proponozts of the plan for tho new atr force chat that Gonervel Zisenower wis in Rovor of
 itere stroncly opposet.
 Italy ae well as from the Ca was concidered it the Gubee Conierense


Eystryouta
 questionel the poscibllits of obtaning the weximan uva of heafy bonors

 Further observed that boabers then basea in tio Ux could uss bases in northern Italy is the nocesserieround drew and faclijtien were provided. His principal interent, hoverer, was in reducint the Gormen fightor force by a combiantion of blows Frow Itoliz and UL. He felt that the battio astingt the encmis fighter forces was a vital one, and that wnless these Forcos were "chea'sed in the neat 6 nontis, tho battle might be lost." The lose to the bombing situ tion, he soid, consisted in plecing strong offenstivnir ioxece in northem Italy; from there all of southern Germen woved bo ifthin comfortiole remes, tu of the largect German afrerift factorion-rinicil botween then produced almoct 60 per cent of the ens's fifictersmenuli be resched, cni Ploesti would be much easier to attact. Talf or the ancyis righteri currenty on the "estern Tront would be recuired to protect the nev gouthern Geman front. ind borbing from Italer wole be botter thon nownil becase the Ing wouli render the Geman rodio raming system relativelzineffectuv. ${ }^{5}$

The fracteons did not feel, hovever, that it wos essatial to buve bases in northorn Ibaly. Secrutary of wor Gtimeon stated that he hed aisuasod the matter ulth Genoral Smate and that the lotter had salid that bobins tould be just as efiectove from tields above Fone as from Ficlas north of tio Po Eiver. Gramal raold arreed vith this, ond felt that it was iurortent that Fone not be declered an opon of an as its

$\therefore$ ATH-15
rallracd facilithes uould be escential in sumpyins air bases north of theit city. ${ }^{6}$


 [.30 ior cutenfive particiration in a combined offonsive againgt Germin industr:; the offeantve, inown es Cporation PoIntifitis and whicin had

 tion in porticular cons to povo tha ray for a cuseescinl crosc-Ohennel incaion on the Continent (Onoretion OV THOPD). Whe oas then airectad
 that "the frocrestive destraction can diclocution of tho Ceran militure,
 lines of comuniention, and tho materisl reduction of the Corsin aix combat atrencth by the suecesonul prosection of tho Combined soubor Offcnstre from all conventont basest wos th prorequtsito to Or Teroed."

Shis deciaion definitoler comitted arirn Strotegic .ir Force to

 esteblicnca in order to earre out the cap.

In Zaptaber Coneral Zisennoter fadrensed a mesna;e to General Wranoll in when he dircusted the matter of bombing Gerwa-held Frove
 wore, he saze, Sive advanteges in ustng Italion bases;


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1. Targets berond the range of UK bompers could be rection.
$\therefore$ There would be better westher in Italy.
2. Initially, there would be fewer Gis figntere and lementialrerst.
3. Gertan fichtcr and ain reglstexee vould have to de thinned out in order tormect attecirs fron two dippetions.
4. Fuere :aulc be ertcter Nexibinity in acetine cyciac Weathor changes.

He and Gencrul Sporta belifved, gaid Generel iferhower, that, at
 obteined : Ath pronortionsioly rmaler jocsos is e suortanticl nortion of th hecry bonber effort verc cmplied during the rinter from Itelion beser. Gere tere, of course, certain contictione thich he ruco, cined: 21, lobsust be built, rumays oxtendod, and additionci steel wat sioped In; cnd he woud lithe to inow, for plenimit purvoces, the numer of howe ositor unita wheh aight be erplowed Frol Italicn fields."

On e Cetover Cenoral Amold ruonthed to the roint Chiefs of otrif (JCS), sud subrecuortis to tho CCS, a plen for critittins the prelfth Air Foren into tho cir forces--the Fuelinth (treticel) and the Fifteenth

 Genural imole saf bist of utiliaing Itelicn air benes ingortiont thirete which could not be oonded from tin could be deatroned, ${ }^{9}$ the iris cir end ground derensen rond of dicparsed, iternseive beses eond be utilized to the fullest, shuttle-bombis, rould be roselble, and oteretions handimatre.

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could bo canried out frem or Itrily in tors of the vether. Te felt

 wor. Gearmi imoli then recommed thet the selath be divied into wo anr forcer, tho old fuelith to become a tecticel outilit cna the new Pirtcenth to oeconc u stretecic unit; thet sone of the unite precently allotted to the we sent to :IO; thet the Siclith orerate urder the

 the gos an to its ciolowent in the 0BO. 10 Fac nucleve of the Eiftecnth would be the siz hecry bouber eroure presezity aceiged to the rwelfta, Sith 13 aditionn eroupt to on aivertce Irce the Zighth itir Iorce in orcer to bring the new unit wo to the dze necensars for it to oncrete. successำวฐ. ${ }^{11}$
 In Scgtcriber or errly in Cotobor. Ficither the Jritisin nor the sericon


 Meyuty Chici of Stafs, declerca that the mogor factors in the elan and the divergion of bober erows hat arowenty recelved reant concierr tion. - The figure of 31 groups, he ctated, nias apporently pulzea out an a hat"; there kid been no comploted scudy of tangets or fixix: of prioribife, elthour
 such onndacratione an logictical inctors, oiraro-en, derots, and levele


What ard hov zay twepte could bo core expeditiourly bombed fren Italias buces than frok the EE, no now inporiant thege tarcess vere; why new bates shoulc be buill and a new sugply setur be estebliched in
 end had adegutcly congiderod the increasod mantencnce reguireronts incident to operatione over erereny, the increased batile deniege, and othor fcetore; cnd thother it was realized thet shottle orerntions would require additioma service pergonnol in both mo end $1 \times \mathrm{mo} .12$

The tir vinistre was notified of the plen by its aclecate in ㅁachnoton, Air licrrkal rillizn 'elsh, who conlad that General Spoatz hat boen in lackington for a weel and in confereace with Gemeral Arnold and hie sterf. On receint of tre cable, Air Wice itarlal somman Eotomiley onrafted a repley for the Coles of tho hir Staif, dir larshel Portal, which etchod thet the prefress of the Eiguth air Eorce in reaucing the deran fichter force drcade hat been retcrued by a shortace of bombere, bouher creve, and lons-renge fiehters and thet the ne: seheve promised to delay still further the flow of afrcraft and crews to wo "end mer ixdeed
 There ie anneex, safe the drait, that "enthustasu for an iecen mint
 Ifnd them umible to contriouto cffectively from that therter. 13

Neunhile, during the diccussiom in achimeton oncornixs the crection
 (General -q ennown'e Ohici of Staff) coproved of the ides, 14 Inels approvel taz strenthencd by a mencoge from Gemeral Ioolittle, of of


XII Powner Coumad. Qoncral Dolittle etated thet lit is estimated that hife-level bombardent of tergete in Southern and fistern Gerrany and the Zantex during the tinter nonthr fevor Tomia at a bace from tro to ono to threc to one orer busec in the British Tslen." The numper of dars ner moxth on thich beabers might be oxpctca to orerate werc as follows: ${ }^{15}$

| Honim | Posele | 止 |
| :---: | :---: | :---: |
| Hov. | 10 | 8 |
| Dec. | 9 | 5 |
| Jen. | 8 | 3 |
| Feb. | 7 | 3 |
| Iar. | 0 | 5 |
| Arr. | 12 | 7 |

Inorlng the sumer manthe thore ins little dirference between bewes cround soccit end basos in US.

Concral Doolittle further noted that scvere niater storn trac*s
 that Focela wes better protected beccuse it lur infediately east of a renge of mountrins; mat that icher volow 10,000 ieet vas worse ofer
 he acic, frontait sertens orcr Frope wore orientoi north and south; thereiore, banoers fro Emicnd had to go through tho fronts whercat from
 as their routce rm . . . porollel to the irontal crec. " In the Eajane "some of their Dest weathor if experienced aurine the winter months. "IG

Bollowing the aircussions with Gentrile Srantz and Gath the Jos raproved Comori irrold'a plan, and on le Cctober sunt to Ceneral Z1enko:cer a pronoscd directive rolative to the settinc un of the new rir force. ${ }^{77}$ Ine Fifteenth wes to be ertriblichod frot the unfts compleing $\rightarrow-$
the $\operatorname{III}$ Pruber Comand (3 bowbariment mice concicting of a totel of II bowbarinent grompo-t heary and 5 mediumana 4 fightor groupe, ith supportine units), uith a suoceguent build-wp to 31 hecue bouber cni 7 long-rance fichter groups by 31 Vorch 194A; it was to be under the comand control of ThF; an ite primari miscion would be strategic vo.bins, chthoug it could bo usca in sumort of the grouna forces then necestery. 18

Cn 22 October the cOS anceused the creation or the Fifteenth. The U. S. Caife or Staff empained that the nov air force use designed to taio adrnteso of better venthor in tho : Sediterricon aren and to disporse the Ciste iluhters; the oss would dictate mioritien ani objectiven,
 Folch oxpressco doubt that tho build-ve in Itals which woula be necessary



 tase care of all additionsl bomber provided tiner erexe in on schodule.
 Elftenit, but uith the proviso that if locistic potentinuties doreloged
 Were no eccormodation woul be ant to the tr. Ceroral irnola accertca
 Wder the provicions of ons 2r/I (19 Octobry 19c5), ith iozen's provico. ${ }^{19}$

A cable var dirratched on the stae day, 32 Cotober, to Cerarai 7 senhover, announcing that effective 1 Fovemer the Iffteentia $14 x$ Force (Strateric) vould be established uncer hie cammo. Infticliy it ios to concigt of the o hrave bsaber proups ond tha 2 lonerange finnter
 tive it lis hesw borber erovos, $\therefore$ lom-rate figntor grouse, and 1




 of Fom, wir socured. In order to corre out the wio the Ifteenth wa to mave closc ence direct liaison with the Zuatly. In tho orent of e
 was authoriget to une the new air force for purpocer othor then the orirsy mircion. ${ }^{2}$
 fron 50, . $4 x$ : Serphol Forral bolieved thet the blem woule rance the totil nuiver of heave boabere to pe uged eccingt Geramis that the beces available in Italy during the rinter covid cocomonete "rery little rare" nevien than the gix alread therg, wile tho iluth of the end of the recr would lose six grown for when preventions alrcidy hed been tride; and that tho vecthor monred to bo no better in Ital:- than in the Un. Portal caid thet the zritish Onicis of Stan arprecinted the decision of Tho V. S. Cricas to fors thr Fiftecne but qelt twot twe buind-um should Rominimithit

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oc eredus axd not at the experse of the zigath; ane thet every avallewhe roup should be sent to the T : for the noxt few monthe, for to do cthervise would "involve a perions adaitiomal riet to tha success of


Uenfral oher said that tho plan depreciates our cepecity in heavs Noriber strenctry" and tnat it "ba'res inpossiole our complete accomilshment

 forcs enfort should be lanchea from the th. " ${ }^{23}$

Sir wargil Farmis argued that the araber numer of targets and the nost imortunt ones were necrer to the U; that the woethor mas no


 Du difficult to sot up the required basan and cervieeg in Ital. It wiz Lis oninlon thet it wold be a yer aftar the llier hod trien noribem



 'quite air etious. ${ }^{24}$





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The 3xitich in "achangon continued to reflate the opinion of the


 tho Oshbur oijencive froa 30 basus rould bo hurt. the T. S. Cini is of Stafi ansured the Sritich on both pointe; furcher, thoy amhesised tho


















 to Cenown IEentovar. ${ }^{38}$

suremanch riroxim


General imold-orobably as a result of the Bribich rowtion ot tip



 ringe fisater gropo in "orth arrica, he culd, would be mored into Ital:
 Iinitations uight iorce the puttins of not more thom three groups of


 vore on level sromit monoove thexe ins lese rin at Fogsie than on the wost eocst of Italy or in Zunaia. inncodi, gipe liner wero being Inid Eran the porte ut Eari, Mrindisi, Borlotta, and Unfredonia (all on the onst coast) to handie bult gasolime. Flnelly, said Gencral
 bombor would averge 15 nisstons per month. 93
 but ho felt Houn that wo cen aceest the incoctsed ir forces and te "Ill certatnl: do so. "fo beliersd, hoverar, that the inezame in dir
 and diftribution of potrol inglonentod, ind goeial sexfice wite provided. ${ }^{20}$
 to Onoril Gpatz' cable of the gota, inforsin; bin that the Infteonth


 torel, or will cwture, in Itale provice a oettor polnt to teine off for the roduction af the cerrin iblify to continus to $i x$ dit and to fored tho dirporeion of Germin ikgeerg and other air defonse ageneles," al-
 tanobly be aralabla in the Un. " Conrai nimola suapestad that bombers
 to hit targots in Italy whould uce the Hegl sud Sardinte. He thon in-
 in oiou of semding strategie eroug to the leditermanen in the futuro Whace thew ere not convincod that you :ill be wir to onso, mintain and operato the d ofiectively an illl be nossible in the T. I refusea to discuer this eqbject on the barla of zour eseurenee that you could runtain them on schedule . . . . $1^{31}$


 of the USiAE in the thester, and he nand Genery Doolittlemeno tas


 Connon as comander of thr Etralith tir Zorce. ${ }^{32}$

Generil Doolittle csqued comme on 1 Sorever. On the some was



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Tnder the new setuy the adinictrative control of the Jifteonth








 Ar Zorce,
 area mier tho operationtl control of was, thot is, outside of Italin, southorm Fruncs, wa the wegtorn Zalman, were coordinuted with the -ifhth sir Foree of drect Iizison. Inis arraccurt continued until


 of the Eiftegath ithin tho thentor orer wian dran hod operational




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 the morearnt bequ on 60 Norcuber ant ins completed on 3 Decomber, ar rear
 and 20 December. The headourtorn oricicily clocod st Eunis ot 0021 kours, 1 Decemor and oprati the the me time in zari there it ramined untill the end of the Italian comarig. 36

In catablisalay the ner dir foree, percomel and enuinent owe from
 provided by tho redosination and trunsien of the Headranters ma Eodiquaters Squadron of XII Somogr Comeral. Fac orlcizal bactical wate




To tho Eth :ing:
2a, 9rth, Soth, 9ath, zolst, ad 3ratiz 30mb Gas. (F);



To the 10 cl 'inc:
17\%A, 319th, and 350th 3rmb Gos. (I); Ict Fifhter Go.;


Fo tho 47 th .ing:
3l0th cha 3net Bomb Gor. (in); 8ed Zightor Go.; go9th Nirane Security 2n. ; Lq. :Ma. Sc. 47 th :Inc.

At the tia of the crantion of the Zirtoenth itr thetiacl ring and umite vore eortle in Iunicia. Thn hondaurters of the e7th ing was at


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Iandurl. (Italy) and soag of its unita wore on the manlond; heckourters cnd units of tho and Gurdinia; hemadurtors ind unter of the sta "ing were in Tuniste bub irere to move to the Togit conglen. 33 It ion cetlates et imas that br 1 Jenuary 101A all of tre sir troups of hoarien would be in the Eoceitaret.
 the functions of the Einteenth and would exploit ever: nossibilitr in
 ve places as quici-lzes possivle in aeroarome creas where they conld best ve utilescd in tho gen; thes woud ficlude full exploitation of the nosribilities of Dornica. The Eain thing tint would lifit tha move from Toxtin frico was lendiat cxaft. 39

Gex,ral Z in wind ond thut aitain tro ronthe corois. conld be built ur with oroust
 nrotect the invision of suthern Ernce. ${ }^{\circ}$

2ran for the Bilamp. "ftor the setivazion of the Eifteenth and tho csefmant of its busic wits and porsomel, the next matter of lugortance was to get it in condition to carry out its fuil snare of the OLO. The first action, of course, the to mote its units out of lorth Afrios to bases nearer the tergets acinst lifil it woud operate; as noted avore this ios gehcduled to be done durine wormber and Decesker.
 personncl and service unite to :hor it bid cdectite etrenth to reet its oblis-tions.


It wan not crourh moral: to brin in cacitionsl bowiber cou fithter
 suld that the crorce conoth erer conld $2 l y$ onler cight lonc hard miesions
 that the Tistocmbh should harc of least tro cress for etch heary borbor




 charctarigtic of the thetor before the would braileble for

 ferions the cras souta need one tonth oi coutroc rest, wh then threc

 in wich ther formerle cerved. ${ }^{2}$ whe nrimare need in the therter, cererol Yoolitile felt, as to brine the Grome porsomme w to etreneth. Whe next need wes to mise the rem coust rote of all parcomel from the "groseli inudegute" present rate of . F per cent per tantin to of per cent. ${ }^{48}$

As of the first vectu of :orcher the Eifteenth hol 3, 6\% officere,






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 I-I7 grove iould ke mityed ench wonth. 6



 crutt, oleo wes schennled to lecre; 47 on rachine the therter it wold



 Ele not reach the Fiftucenth whti? lobrame. 40

Concurrentle, the Porth Arificn thenter ine ajoceted for Fecemer





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Iille pornonea cheduled to nove from the $U$. S. to the
 onlirtad mon in Tearicer, 123 officerr, 10 wrrant oificerg tad 2,170





> Ir Dorembur: Ir. © Eg. Ba, , EOAth Zemu "ing (H) ; 2 air derot erown; 2 sorvicc irowne.
> In Ieccuber: Hq. A Fiq. Ea., 203th 2osib
ing (I) ; 3 scrvice ;roupe.

In Janairy: Eq. a Hg. Eq, , 307th Zowb ing (X).



 wa zor more jicitex woups. In tho oreinning it hed omyer four, at about hoff otroneth, then it returjle needed eeven at full strengtn.
 Tot, it my here soesed thet thore woro onough ingters in the

 one thin thero yere onle thre grows of P-33's, finch alone vero mutable for lon -ronce escort. Of the othry il woup to had p-egre



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The $P-A N$ group were belrag re-equitmed with P-47t, but the trensition
 Fere schetuled to be trensferred to $T:$ nd CBI. E4 Thirdity, becruse of



 ploce. ${ }^{\text {ES }}$ This sould remut in $E$ low in fichter activity wile gilots iere goire trrough the trining incicent to cinning over to the
 It chtor-bosbor gours wich needed the P-E1's os renleceante. E6 Firolit, the the ter hod a shortage of wore then ro fightare. ${ }^{5}$ the Thoto reconnaicranco grom with hod Decn stivulcted in tho wr Iomut-







 creicnod to the Eifteenth. 59

 oificerr une 32, 367 eallited men. ${ }^{* 0}$


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Fren wile the Fifturnth wes expendine, it ws losinc the nedur bomber grown simich had boen arrigncd to it on I Nowerber. ints wa a logicol procedure insumah as the jistecnth hen been oxceted primeriler for lont-rango bombint. On 3 Yovember bso of its erowe of modine vere
 of ketrics hed arrived in the therter, the sol Bowaricent inn (\%) and the re-iring there croveg of Ecdium were ront to the fwelfth. 61

After the return of the tro croupe of troditan on 3 yoronocr, the Swarth hed maxr its operutiond contral ${ }^{62}$ the followinc:
2. III Zichter Cowinn, consictin" of tho Gad \#igiter "in:



 ment Ars; (threo bomberdment croups and thrce ficiter (croups), the CAth Eighter inc (two fighter eroup and one tac/recee squeran), onc Fogaroto fifder erow and ono segarde fichtcr-bomber groun, togethor vith sugartin units.
3. Sroop Ocrior Comand (Frov), consisting of the Elst "ine
 unite.
4. XII Air Sorec Cerviec Govind.
5. SII Photo Pecomalrcouce ine (Prov), comsintinc of the 30 rind Eth Fnoto Fineon Groume.
6. VII Frifuins Comend (Trov), conriotine of one fighter-


 nroperle oftolishbe and uth plans wade for ith rempeion, the next step was to put ite bomere into cetion, porticularia a-iast oza tarcote but inso egingt meh othe objectiven mine of comundetion In northern Itali. This wo more easily acid ther done. For one thing,

 nad to be flom, rot neinct 0 DO terscte, but equinst objectives in

 nad to br ivar orer to tho worment of units Pron Munsin to Itily and
 Ifited watil veli inte $1944^{6}$. 6

Ooviousti", however, thero conditione did not veen hither enthoriter Irow lowiry dom the bugt won wich the IIfteentin wis to operate. Gn
 the Fighth and the Fixternth in order to aroolite tne crivina out of
 wes to be anteblichod. ${ }^{\text {a }}$

 For coordin-tion of orexttione betreen the ightin and the intacatin.

 osteolisncd ot thr hecdeurtcrs of both pir forcer wo so to ingure


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ropid interchono of orationa axperience and intelligence duta. Gporating tochntowe, tocmicel dote, and provision for prept and con67 timuotre intcrehonge of idear ari exporience vero worized out. The confercree orougnt out tho acet that one of the princips?







 Ifultel to participation in tho 0.0.




1. Fo deavor the 0.5 in tion ir ind on tiveround thex-tar

2. To sugort the betble on the It ilisn winlamd.

 . $\operatorname{dnititan}$, etc.





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 and includng a line fro.s olvitavechin to inconc, above thet line




 land bathe. ${ }^{372}$

 Important objectiven vidu could be rachad onle bu herves-mach as
 rpectichaty to Stretocic. ${ }^{73}$


 in Gommer ould necomiteh to thing: flrot, it vould contribute ver.

 Gorwen pooplo to coswe on tho ivirn therobe nould heten tho ent of

 In north-eentral Italy in sumport or the wrowa centin, ${ }^{75}$ no yould ne Iree to particlante in Purirabrian to hit the nortiom eprovehos



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eneay's supply routes in central Italy.
The Eestruction of the Gar, particularly of its fichter elements, was given ho. l priority beceuse the first provequite of a suesessivl
 تont of cugcrioxity ovar the Gor.nin defenive flentur fores. obherise, strutegic attacis corld not be concueted uthod arohibitive lossec. Tho reduction of the cis vould, of course, thso of ralue to sllien






In ordur to deatroy glenoe on the rowd cnd in the 1 r , win vona


 bumbers.

In blurting ichtor factorier and vil-becring jlente the grincient



 Exret phamo of the CSO. 73







 figherr ( $8=$ ) plents. ${ }^{79}$ The principal conters of sim produotion wers





 Oberpraitonoten no Eriedrichenofen. 50















1．Nerine II，Joner＂eartoat
D．Lonsorvehatt A．G．，iucsorxe
3．Fillerperosa Zoll Eearing Fuctor＂，Eurin


G．Sterr－Dirler－Tuah，Stery
7．Pesenswig ixpercis Foctory

 rhasis on the production of cuch the csantials as oll，rubber，nd







 prouring 32 pox cent，sore ithir 600 wiles of inconit proivetion of

 02 the
 thet 19 ，the dantruction of a fer curefully solseter indu＂tries which
 The Dosod on the pretiee thet the cnasy nowld be aurt tore if dessiod


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of a larce portion of a fou gital industrics thon if derived of a 57
 stratecic target milue of a partiouler industry or of a purticuler elesome in an induatry the folloring "tectr" woro ured:



3. Ean quiciny could a fiven reducion in output of an itea
 strength

 to this incurstry? 9

After ax intion set of targote led bean cet wo on this beais, recon-
 to, Ivo the horvics altancote tergets for each Lission ob the ef reater zecio of oncratione roult bo winintainct. ${ }^{\text {s9 }}$

Ls has becu notel, then the promoncats of tho thes of settins in tho Eiftecnth were puchine the plen in cotober, the argicl the oner-


 hulitornite firet merione, thero orinion contingeg to oe nold. Cn



$\therefore 2575$




 thet, currently, aset of the Coran $x$ aster wite fith thair moat
 we requirea to astrolich a inghtor control in suthorn Ger...ne wica
 thet the increate in heary botocr buen in Italer vould sizolify chatile-


It wn on this ontinistic note that thy Gifternch bestan its operstlone in :Orchocr 24.50

 the lediterrancon Allied dir Eorces ${ }^{\text {El }}$ had arailcole for oll of $i t s$ oporations-atrategic, tocticai, coastal, pnoto reammissance, ser-icer,










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## 












 to cejin ite 19 operctions. 9








 furricone, Wirun, arc Intcoore, ill of thene were wher Coental. In




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 Ioservalt hed roraller necetol thar eorvices frow the Yugornvian


 orcrecan." The four ic-man croserncipoted in four mor inciong

 os thich tro of tro eress wero logt.

## Marcint of Theta



 Oth the rugonaioilite of the plennine wal catcneton of ar oncritions.





 Further, he :ee to whin the wovementr of units into Iticis so an to reep in phomel ith the procecs of tho crown forces and, if norcible, to =ove in the wite of strateghe aherd of thoce of Inctical. Gy The rilitery





 oÎ all of tro unito.




 of tho zonth. " It as precentre poscible to cuport three heres bouser



 מeinerice, tou\%.

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On the 23th the good veather colispsed, and on that dare and the






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the Sangro Siver, shipping in east-coast harbors, tanks and vehicles northeast of Aveazano, trains and transport in tho Avezzano-Sulmone area, lateral roads and venicles in the Pescara-Ancona area, airerart on the Iesi and Ancona J/G's, gun positions below Atessa, and military billets down the Sangro Elver near Eocciraso; light vombers attacked gun positions at Castelxrentano (on the eneis's left flant, across the Sangro) and the railway station, troops, and guns in and around Palena (betroen the Sangro and Sulmona), the Palena operations being particularly heavy and successful, with more then 120 sorties belng flown,

In the third weel of the month the weather continued to be a limiting factor in Mactical's operations, dut DAT fichter-borbers wore able to gite some close arpport to the ground troops, and Spitfires got in a fair nuaber of bombline and defensive patrols. Almost all of these activities were imnediately in the battle area. From the 16th through the 2 th operations werc over the left flanir of the Eighth ir ay in order to soften reststance to the acivance of the 8 th Indian Division: fighterbonvers went for gom positions at inchi and Porano and stront-points at Tivisondoli and jarrea, while light bomoers pounded positions around Rivisondoli. On the 2list the attack was shifted to the right flank, P-40's coing for targets at Santa Maria and Poseloflorito and Daltinores boubing rositions south of Tossacesia. These opsretions wero preliminary to the arive whicin tine Fighth was about to launch across the lover Sangro.

On the night of $22 / 23$ november, the 验ghth crossed the Sangro near the coast and 36 hours later had established a brideehead six miles lone ana a ruile deep. On the left of this sector the gighth also had poramintild
crossed the Sangro above Atessa and had reached the San Angelo area. Farther down the line of the Sangro very limited progress was made above Oastel di Sangro and east and south of Alfedena.

In cooporation with this general movement against the Sangro line Tactiesl made a strong effort to soften resistance and support the advance. Cn the $22 d$ attack were delivered against defensive positions and concentrations in the San larle Imbaro, Lanciano, and lossacesia sectors, all adjacent to the coast where the main drive was being made. The operations were by $3-35^{\prime s}$, Zaltimores, and P-40's, with the Last also Eoing farther afield to attack rail and road movenents in the Ancone and Pescara areas.

On the 23d bad weather stopped air operations, but the next day A-25's bombed the enemy around Santa 'daria and Fossacesia in an attack described by the ground troops as "magniticent," and more than 120 1igat bonbers and P-iO's gave direct nupport to troops waich had crossed the Sangro. Iming this pexiod the GAF offered oprosition only once, and this was by two $\bar{T} 3-190$ 's, one off which was shot down.

From the 25th to the night of the 27th the if ghth army was busy consolidating its positions across the Sengro preparatory to continuing its drive against the enemy. During this stage Ractical gave excelleat support to the ground forces. Lledium and light bombers smashed at defensive positions around Iossacesia, Lanctano, and Santa :aria, putting in more than 450 sorties. P-A0's inew almost 400 sorties against targets in the same areas, with a lesser effort against Casoli, farther soutn, Ground troops confirmed the fino resurts achieved oy the pombers and

fighter-bombers. leanwhile, B-25's went for the II/Y's and herbor at Ancona and, on tne nught of the 26th, Bostons attecked some 50 vehicles south of Pescara.

On the night of $27 / 28$ the Jighth Army launched an assault in the eastern half of its Iine, driving hard against the eneray's winter line on the high Eround overloo'zing the Sangro valley. fine Geraans counterattooked fiercely but the 14 guth stopped the attacks and by the end of 30 Movenber had tuken Fossacesia, Santa Laria, Mozzacrogna, Rowagnoli, and the whole of the high ridge dominating the valley. In this operation the ground troops recolved tremendous help from Lactical's planes.

The German lines on the ridges already had been worked over by PaF, uit on the 28th, 29th, and 30th its bombers and fighter-bombers continued to pound then and to hit at key points in the Germen defenses. Lanciano, Fomsacesia, Santa laria, Pocco, and Castelfrentano bore the brunt of the assault but attacks also were made on concentrations near Guardiagrele, Casoli, and Orsogna. In these attack the Allied day bombers flew around 400 sorties and the inghter-bombers $\pm 1 e n$ alnost 600 . So severe were the attacks that the Germans wore unable to mass enough troops to deliver heavy counterblows, and the way was paved for the Zigigth's drive through the winter line.

Zxcellent cover was given to the advancing troops by figgters of DAS, winch destroyed eight eneny planes, probably destroyed one, and danaged eifot, for the loss of two planes. Nenmille, $6313-25 ' s$ effectively bombed the road and rall bridees at Guilianova and 36 more hit the IIT's at Givitanova (botn pleces being on the coast between ancona

and Pescara), while by night A-201g continued their attacks on roed and rail movements and targets of opportunt ty the north of the battle area.

Durins the month Tactical's operations Included a number of activities other than its main one of working with the ground forces. attacirs were nade on vessels in easi coast harbors in order to interfere with a mode of German transportation which netrarally increased as Allied bombings further interfered with land comunications. 2 at night Bostons and Hosquitoes went as far north as Padun and Ferrara on intruder nissions against tranus, raisways, roads, vehicles, and bridges. liaval operations along both coaste were aided by diyersions which included bombings end the droppine of flares. Fhubarbs, escortf, patrols, and photo, tecticel, and weather reconnaissance missions vexe flown regularly. To an apreciaole extent all of tactical's missions were conditioned by the weather. This was particularly true of its missions over the Yugoslavian coast, for, as a general rule, these were flown whon operations over and north of the bettlo zone were limited by bad weather. The principal missions across the ddriatic were against the narbor and shippine at Split, these deing bombed and strafed a numper of tines by B-25's, A-30's, P-AU's, and Baitimores. Wethovic also came in for a lorge number of attacks, rrimarily because of the concentrations of enemy venicles frequently found in the vicinity; one of the nost successíul of all the operations over Tugoslavia was near Ketwovic on 6 November when P-40's destroyed $40 \% / 7$ and danaged 50 . Other places thich received special attention

were the herbor and shippine at Zara, the docks at Durazzo, and the narbor and If/Y's at Sibenik. Earge numpers of sweeps and armed recces also were mede along the coast.

Stratecic Air Force
During Movenber Strategic's operations were on a smaller scale than at any time since the Tunisian cemaig, its tonnace dropped being less than one-thind what it had been in September. ${ }^{3}$ The reduction was due in part to such internal conditions as the reorganization attendent won the creation of the Fifteenth and the noving, or preparing to move, ox untes to Italy and the islands. Inese matters, hovever, were minor. The princypal thing which cut dow on operations was the wenther, which, as aiready noted, was consistently bad. One resurt of the poor veather was the shift of man oin strategic's missions from GBO targets to lines of communication in Italy, which meant that SA was supporting the operations of MAF on behalf of the ground campaign. In view of the difficulty waich the $311 f t n$ and dightr Armies had in mabing any appreciable progresc curing lovember it was uncouvtedry to their advantage that the shift toor place.

Iines of dormunicetion. In attecking lines of commnication-and other targets-minategic was aided during november and tnereaftor oy nrproved weetner forecasting. This was made possiole by daily weather reconnaissance flights over nortnorn Itali, southern France, Borsica, the Adriatic, Albania, and southern Greece. The missions vere flown oy PRit pilots using P-39:s. ${ }^{6}$



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Strategic's attacls on Iines of commication were directed Iargely arainst rantways in northem and central Italy. There vere seven main lines that were important to the naintonance of the Germen armes:

1. Rome-Floronce Directissina Line
2. Pome-P1sa
3. Pisa-Fiorence
4. Arezzo-Fozigno-ierni-Orte
5. Genoa-pisa
6. Inarseinles-lienoa
7. Bologna-himini-Ancone

During hovenver each of these lines, with the excention of the larsellles-Genoa, was hit by Strategic, the main targets deing IIY's and bridges. ${ }^{\text {? }}$ This represented a conbination of the emphasis revealed in September attacks, whicn had been mostiy against $H / x \cdot s$, and in the October progran, lifich had been centered on bridges.

The inst nhase of the assault on lines of comanication began on I Movember and ran through the 6th. The Vezzano railvay bridge (near Spezia) was attreled; the Fiaregeio $\mathrm{H} / \mathrm{Y}^{\prime}$ 's (near Pisa) were severely damased; experimental lok-level attacks were mace by 3-Ir's on three sections of the vest-coast railway between Cecina and lontalto di Castro, nits being scored on the line and adjecent highays; "ellingtons put 75 tons of botabs into the IF/Y's at Orte; a few B-1/'s attacied a briage over the Fiora Fiver, northirest of Rome, and a railway oridge soutn of Orvieto; r-38's hit the railway viaduct at remi and low-level bombed a ratlua bridge near darquinia and one below, Orfieto; and 24 3-23's
went for tho llarsciano railitay bridge, soutin of Perugia, out missed the target. The resuits of these missions ransed iron outright failure to extreme demage, the avcrage being good.

One mission curina the week vas not against railways-- $36 \mathrm{~B}-26^{\prime} \mathrm{s}$ attactred Civitaveccinta harvor, nitting a merchent vessel and small craft.

From the 6 th to the $10 t n$ strategic passed up tre railways for industrial targets, but on the lotn it returned to lines of commanication and continued to work on thera throush the 1sth. The heaviest attack in this period was delivered on the loth by roore than 75 s-1f's lanotaer 25 were turned baci- by weather) against Bolzano. The heavies aropred 216 tons of 50U-pound bombs, rendering the $H /$ 's largely inoperative, cutturo tue Lines to Innsbruck and Callendo, slightly demoging a railway bridge, and regiatering direct hits on a roac bridge. ${ }^{y}$ two of the Tortresses were destroyed, and two were renorted missing.
the other daylight attachs of the period came on the 12ta. All were delivered by $3-26^{\prime} \mathrm{s}$, operations being greatly hampered by clouds. The railuay bridee northuest of Montelto $a l$ Castro was attacised, and the tracins couth of that town and belotr OrDetello were considerably damged.

At night : H lliagtons went for railway bridges northwest of Eone, east of Florence, south of Pisa, and southeest of Genoa. Direct hits vere clatmed in each case, and tracke were danged. All of these attacks were by small grouns, but on the night of $11 / 12$ a larger force mede a succesful raid on the Prato $\because / Y^{\prime}$ s, north of Tlorence.
lfeanvinile, $\operatorname{sarf}$ 's struck at the antheor railvay visauct, near Oanes in southern France, cutting the tracks and highiay north of the myntotrima


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viaduct. Wellinetons also attacked the vioúct, as woll as a reilway oridge over the Far Fiver, north of inice.

Iron the 14th to the $22 d$ Strategic encountered unusually bad weather as well as some comitments in the segean, so that only on the 16 th and 31 st was it able to operate eqainst lines of conmunication. On the 18th half of a force of 48 D-ac's were able to reach the Grosseto :I/Y's where ther inflicted considerable damege on sheds, sidings, freight yards, and warehouses. On the 2lst E-2ele hit the Cititavecchie dock area and two vescels in the herbor and bombed the $1: / \mathrm{T}$ : at Chiusi. In the Ietter atteck the an offered one of its fow chellenges to Strategic'p operations duxing Fovember, sending we about a dozen fithters; the mediuas and their escortine $\mathrm{P}-\mathrm{s} 8^{1} \mathrm{~s}$ snot down one enems plone and dameged three, losing one $=-38$. On the same day Strategic made one of its few attacks up to this time on cneny rear comunications on the east const when 25 B-a6's struci= at the road and rail bridges at Fano (between incona and Fimini), dropping 43 tons and scoring afract hits on the gice of the railuay bride.

On toe zad Strateric begon the fourth and finel phase of its Lovember operations ageinst rail lines. The attacke cane intermittentis to the end of the month, vere made egainst three imortant lines, the Genoa-Spezia-Fome, Bologne-Elorence-Fome, and east-coast routes, and Involved some 160 sorties by heavies and more then 225 by meaturns. On the west-coast line the Cecine reilwey bridee, the $1,350-\mathrm{foot}, 20$-span Receo viaduct (southeast of Gerot), Grosseto $: / Y^{\prime} \mathrm{s}$, Giamino re, ilvay, junction, and a rail:ay briege across the Ombrone Diver belov urosseto

were attacked. On the Bologna-Fome line the i/Y's and bridges at Grizzana (north of Arezzo) and the rail center at Foligro (between Crte and Ancona) were hit. Along the east-coast line heavy attac's were delivered in order to weaken the enery's strong resintance to the zighth Irmy's push across the Langro River. The orincipal attacirs were ageinst the Eiminf $1 / / Y^{\prime} \mathrm{s}$ and bridges, the Dogna raitway viaduct (north of Trieste), and the railwer bridges at Cesano, Senigallia, and Talconara, northwest of Ancona. The Eimini mission was flown by B-17's, the Dogna raid by F-3E's, end the attacks on brioces above Ancona by low-flyins B-24's. As a rosult of these assaults against railways widespread danage was cansed on each of the three linos. The attacis were virtually unopposed by enery fignters.
sy the end of the month the attacirs on Ines of communicetion had been surficientily productive for Ceneral hsenhower to feel that once the Alifes were north of forde it would be possible for difin to keep the Germens from bringing in ang kind of supplies, and that with 50 per cent cood veathe: the lines could be cut and keyt cut. ${ }^{10}$

Combined Bonios offengive. Iuring the month strategic found it possible to initiate one large and imoortant mission ogainst an enery Ifchter-production plant and demed it advisable to senc out several expeditions acainst enemy airfields. chese were designed to carry out the primury mission assinned to $\operatorname{LAAS}$ and to the nev Zifteenth Air Porce at this time, "the attaiment of air supretacy through counter-air-force operations and the deatmetion of the eneny's aircreft production. ${ }^{11}$



The inissions against eneny eirfields also gave extra protection to Allied ground and air forces and shipping against eneny fignters and Dombers, not only in ltaly but in the Aegean. The numper of comenter-airforce operations, as noted above, was linited by weather.

The blow ogainst the eneny's production of fighter plenes wes structr on 2 Hoveriber when a highly successful 1,600 -mile nission was floun againat riener Reustadt by Strategic's heavies. The immeinately previous attack on 24 October had been largely wasted becance of a complete overcast, the 169 heavias hevings to oomb of dead rectoning or attact: unobserved targets of opnortunity in the vicinity. She november miscion more than compensited for thie unsuccessful exfort.

The blow wes struck by 74 B-17's and 38 B-2A's, escorted by 72 F-3j's, and 337 tons of Down were dropped. Fioto reconnaissance showed, .in particular, that a large alrcraft assembly shop in the Hesserschaitt factory was destroyed and another danced; two flight hangars were cestroyed and one demeed; 13 aircreft on the iiener weustadt/\%ord airfield wexe damaged; heary danage was caused to large machine and assembly shops in the kensonel and Sohn and the Steyr-Daimler-Puch woris; and youndries, storage sheds, and offices were destroyed or dameged, 12
. On thi m mission Strategic got a good conception of the importance Which the eneny attached to his flegter-production facilities and of his willingess to defend his key installations with large forces of fighters. setveen 120 and 160 enemy planer, including lie-10y's and 110's, Ei-190's and Ju-8.t, wore encountered; they attacked before, during, and after


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the bomb mun over a period of 45 minutes. nut, despite the extent of the enemy's fighter opposition, the Americans hod a field day, claiming 56 planes destroyed, 27 probably destroyed, and 8 demaced. Against these victories the UNAAY' lost $53-17^{\prime} \mathrm{s}$ and 5 I-2A's destroyed and I Bull missing, some of these being victims of flak, which was heavy, intense, and accurate over the target. ${ }^{13}$

The wiener Meustadt mission, considered as being the outstanding event" during the first four months of the Fifteenth's operations, ${ }^{14}$ was an unusually important operation. It was the first major mission conducted after the strategic units were formed into the Fifteenth Air force, and it was the first FoIntidan operation from the lediterranean. The destruction laid upon the aircraft assembly units was estimated to deprive the GAT of a future output of 260 fighters per month for several months-the plant was considered es having no further target value for a period of four montha--which not only eliminated 30 per cent of the total German production of singlemengine fighters but would impair German defenses ageing t attacks by the Eighth and fifteenth and would weaken the Germen air defense on both the Eussian and Italian fronts. ${ }^{15}$ As General Arnold put it in a message to General Spaatz: "the effects of your attacks on wiener ieustadt, 2 ilovomber, will cost the enemy hundreds of fighter aircraft and will save us many lives in our continued air war. ${ }^{16}$ furthermore, the Germans now realized thoroughly that their Industry and air forces were faced with savage air attacks on three fronts.

As a pert of the plan to cripple Germen Industry in general and fighter aircraft production in particular, the Fifteenth was to attack

$\qquad$
incustries, wita especiel attention veing peld to factories which produced ball beurings. In Hovember six such attacts were made-against Turin (two) and near-by Villar Perose (two), the Ansaldo steel works $-$ at Genoa, and a ballmearing factory at Anneoy in southern France.

The heaviest attack was delivered on 8 November against Murin, the primary target being the Fiat ball-bearing voris. Whis factory produced the majority of Italian bearings and its output, fogether with that of 711 mperosa, comprised almost 20 per ceat of all the antifriction bearings available to Gernany. ${ }^{77}$ In the attacis (0y $813-1 \%{ }^{7}$, aropping 183 tons) mort of the factory buildings vere severely danaged and hits were scored on the near-by motor and aero-engine woris and the Lingotto U/Y's. The attack was reported to have eliminated some two months of the output of the Plat woriss.

The seciond raid on turin (by liellingtons on the night of 34/25) was almost entirely abortive becauge of extreaely bad weather, only seven out of 76 planes belng able to strike at the target. "the other four attacks, acainst TillarPerona (two), Ansaldo, and innecy, all were on a smeller scale than the first raid on Furtn and all were interfered with by very unfevorable wether. In none of the attacks were the prinary targets hit although there was some damage to ndjecent briadings, $11 / \mathrm{s} \mathrm{s}$, etc.

At the end af the nonth Air Chief Earsial Fortal reported that even the compcratively licht attacke made by Thar on German industrial areas had Ied the enemy inmediately to transfer wu fiskter planes to their defense. 18 At the same time, Sir Alan Brooine stoted thet air

Dounter-air Onerations. In attackine airflelds "iafts planes found thenselves going for one or more of four main typer of fields: (1) those containing concentrations of operational aircraft, (3) those containing important installations suitable for lerge-scele reptir, assembly, or experimental vortr, (3) those presenting a combination of operational aircraft and important instellations ( 1 and 2 , acove), (4) afrdromes defending ley target areas. 20 By way of illustration, the fighter bases around Viterbo and the bombr bases in the Po valler were examples of trpe iro. I; Guidonia, the most importent experimental station in Itals, was an exatple of aro. 3; the Istres comlex was an example of Mo. 3; and the fielde around Zomo, gonoa, and other key industrial and transportation centers were examples of sio. A.

Lhe first attac: ageinst airfields in Fovember cane on the night of $2 / 3$ Tovember, when 36 Wellngtons dropped 53 well-concentrated tons of bonbs on Iiano/somana airdrome, destroying or d-angne nany planes on the cround and putting a nubber of direct hits on the landing ground. This mission was followed by two raids across the sdriatic, one against Araxos $A / D$ in Greece und the other arainst Derat-rimove $A / D$ in Aibania; results wero sood in ooth bases. These missions terrinated counter-sitrorce operations until the 16 th, when $1 H A F$ initiated the first of three sets of attacks maingt airfields which would feature its countor-airforce operations during tho last helf of the month.
tine firat of the throe sets was against figlds in southorn : rance from yaicin eneay bombers had leunched raids against shipoing in the central


Mediterranean earlier in the month. Mgity-tive B-l7's battered the Lstres complex with almost 180 tons of demolition and frac bombs; at Intrea/Ie tube seven hangars were danaged, barracis, stores, workshops, and a motor trensport depot were hit, and one aircrait was destroyed and one daraged on tho ground; at Istres/Les Pates two hangers vere danaged and one plane destroyed, Keanuhile, 43 Sardinia-based $3-26^{\prime} \mathrm{s}$, tith P-3s's as escort, made the first daylight attool by mediums on southern © tranco, 21 dropping 4,602 $\times 20-10$. frag bomos on the field at galon ond destroying six and damaging three of $23 \mathrm{He}-111$ 's on the cround. Inemy oprosition to these two missions was strons, a total of some 30 to 40 incinters challenging the boubers and thoir eacort; but 13 were destroved for the loss of $22-17^{\prime} \mathrm{s}$, Another Fortress was lost to flak and a 3-26 had to crash-land in Sardinia. 22

Zebveon the 23 th and 30th Strategic flew its second set of missions reeingt airtields, but a number of the raigs were rencered abortive becuse of solid clouds ofer the targets. This was the case on the 28th when 110 B-20's wore mablo to ettack the Salon sield, and on the 29th when 67 - $-17^{\prime \prime}$ s had to forgo their borbing of the Iiano/Romana field. On the Salon trip 13 enemy fignters vere encounterad and in the resulting nelee 5 were destroged, 1 probably destroyed, and 3 danazed, for the loss of 3 -2E's. Two of the major missions were cerried out, hovever. on the nicnt of the zoth 55 irellingtons unloaded ro tons on the Fome/Ciampino fisjoter base; results were poor, although hangars and ifsersil areas vere hit. The next day $3-77^{\prime \prime}$ s and $b-23^{2}$ g hit the Grosseto field, and results were excelient.

Strategic's third eroup of operations was against fields in the Aegean, in a strong but futile eflort to help the British who were in process of being driven from the islands of Leros and Samos by Gerian air and ground forces. lio fighter sumort for the $B x i t i s h$ was possible but bombers of SAF and par carried out sweens in the Leros-dalino-0os area and attacked Elensis and Xalamari aixfields in five days of onerations Detween the 12th and 16th. These efforts were coordinated uith operations wy planes of :'iddle Zast, whose 3-24's, Ealifaxes, :"ellingtons, Hudsons, and Baltinores flen 97 sorties against airfields on Fiodes, Crete, and Cos. After haros had fallen to the eneliy on the 16 th and before Samos was eracuated on the $22 d, \operatorname{Tan}$ continued. to strite at afrfields in the Aegean, B-I7's and b-2b's hitting Ileusis, Ealamaici, and Larissa, In these attecks at least 50 eneny planes were destroyed or danuged on the ground.

Qther mistions, During liovember diAli's heavies and mediuns ilew two inportent missions against Sofia. The Sofia attaciss were partly to interfere with the movement of German trensport into the lower Belivens but equaliny for politicad reasons and as an assault on the morale of the Bulgarien people.

The impetrs for the attacis on Sofin grev out of a cable from the GOS to General Nisenhower, 33 October. The message stated that the ocs was of the opinion that, provided the planer could be made availaile uithout detriment to mors important operstions, the Allies ishould administer a sharp lesson to Bulgarial with the primary object of forcing her to withdraw all or part of her forcea from Yugoslavia and Greece, priverty


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"thereby adaing to Germatis difficulties. ${ }^{1 /}$ The COS believed that this could de accomplished by "surprise air attacks on military objectives in Safia, such as the rail canter and marsinalling yards, " accormanted Dy leaflets citing the fate of Eamourg and Hanover. The timing of the attacks was to be left to General wisenhover.
soth of tho attaciss on Sofil were directed speciflcally against the $N / Y^{1}$ s, where the eastwest traffic on the Berin-Istanoul line was hancled. The first rata came on the lith, with 91 D-25's (escorted by a grow of P-38's) droming a total of $558 \times 500-1 \mathrm{~b}$. bomivs wnien covered the yards and caubed fires and explosions. Nany of the Dombs were set for delayed action, and reports showed that a numer of these fell on near-by Frajedna airfield and exploded several hours later. Over the terget axea do to 20 enen itighters attacked; but the escorting $\bar{F}-30^{\prime}$ s shot down 5, probebly destroyod 1, and damaged 2, sud the bombers accounted for 1 destroyed and 1 damaced. One $\mathrm{F}-38$ wes 10 st . The second raid was on the gath cne vas largely unsuccessful. Oniy 17 of the $2-24^{1 /}$ on the rission could locate the target, and they bombed tnrougn neavy clouds. Fnemy fighters appeared, and of the 8 to 12 wilich attacked 4 were destrojed and 2 prooaily destroyed; losses were 2 Linerabors destrojed and I P-38 missing. 24

Whe final outstanding combt operation of Strategic in Sovember cane on the 24th. This wes a heary blow againgt Powlon, home port of the Viciny fleet and an important Geram submarine base. the attack followed an abortive mission on the z2d wen $152 \mathrm{~J}-1 / 1 \mathrm{c}$ vere forced bacs 07 worther. On the 24 th $103 \mathrm{~B}-17$ 's reached the target (in spite of $10 \%$


visibility) and dropped 310 tons of bomos. A cruiser, a torpedo boat, a aubmerine, four snailer vessels, and severch berges were sunt, five "cis or "pl Doats zrodanly were aunin, two nerchant vessels were danaged, and three submarines took near misses. Dry docirs and a submarine station were damaged. One unit of 15 b-ip's was pnable to locate powion and unloaded on the Intheor viaduct. These planes were aggressively attacted by 10 to 15 enemy fichters over a period of 35 minutes; one enemy plane wes shot down without loss to the Fortresses.

Strategic's fighters operated over Yugoslavia on a small scale. Pr-33's escorted mediums of Pactical which borbed installatione along the coast; they also proteoted IAF planes whicin dropped supplies to the rartisans and covered las figinters engaged in strafing inland points. 25. these operations, plus the larger ones carried out by TaF, enebled Air larshal Fedder to report at the end of the nontn that air operations into the Balkans were working "reasonably well. "26
aichelling operations by the sifteenth wero heavy during the month. Three "campaigne ${ }^{[1}$ were conducted. One was primarily designed to assist in the presorvation of Italian art treasures. Some $2,350,000$ Leaflet: wero dromed, mostivi in the Tlorence-Legnorn-Spezia triangle, The second camaign was for the puroose of hurting the morale of the Germon soldier Wy giving him full iniomation on German defeats outside of Italy and by recording Alilied successes in other theaters. Around 4,000,000 of these leaflets were dropped. The third was directed toward Italian workers in the larger industrisi cibies. As the workers were largely anti-nascist, tho several million leaflets, which were dropped were

designed to induce then to retard production by woxing slowly, neing Late for work, and carrying out other methods of comitting passive sebotage. Attor lYoveraner the nichelling operations in the lediterranean vere drastically reduced as a result of the atabilizing of the Italian front and the reconstituting of the Psycnological "erfare Board. ar

## GAF Operations

In Wovember German Lonc-range pombers were more active than they had been since the deciming of the Itallin campaign. Their heaviest and most frequent attacks were dellvered against laples, which, with its satellites (notably Begnoli and Lorre Annonziata) currently was handitne, around 9,000 tons of ghipping per day bhich was more than the Heel ports collectively were handing), and from waich rail lines were in operction to Eegsio, Crotone, Saranto, bari, and other southern centers, The eneny made three raidr, on the lst, 5th, and 10th, The last two were especially heavy, each introlving sone $30 \mathrm{Jums} \mathrm{I}^{\prime} \mathrm{g}$, butdenage was limited, the main losses being the destruction of a petrol and ammuition ship, the partiel destruction of a zasoline duw, and the demoging of one LGI', The enery's use of "window" "cpt him from lostne any planee to Allied night fighterg, but LA guns brought dovn three of the bombers and probably destroyed two nore.

On the evening of the 6th an illied convor was raided off fhilipperille, Algerta, by 10 to 15 enemy plenes, some of rhich used torpedoes end radio-controlled bonos. Tyo troopships and a destroger vere sunt. Lad veather rept doastal's planer at home, but the convoy's if euns
clnined five victins, whe some night fow Ju-88's yere over the CapuaHontecorvino area, and about 15 or 20 were off Bari, asparentiy lasing nines.

On the night of the 10th, while 3:cples shippine was unler attacis, a small enemy bomber efiort wes directed araing Ia Ladalena harbor, Eardinia, but with no important results. A more serious attack came the next niftht wen about 20 Dombers flew down from southorn France and attacied a convoy off Oran. OAD's fighters arove off the Do-217'g, but the He-111's and Ju-881s, using torpedoes end gider bombs, sank four ships and dameged
a firith. Beaufighters claimed two enemy plames destroyed and two darnged, and A1 gunners accounted for two shot down and one probeble.
the enemy's activity between 5 and 12 liovember was the highest in three months and was one of the main reasons for Stretegic's mission against the Istres conblex on the 16 th. Phis atteck plus bod weather stopped the activities of the German bombers until the 24 th when 10 to 15 attacked $1 a$ Kadalena; only minor damane resulted and four of the raiders wero shot dom. On the abth a major attech wes mede against a convoy off Zougie. Sore thn 30 bonbers rarticipeted. One troopship was sunir, but tha eners sufferec heavily, SAF and 5AF planes shooting cown eight plenes, probably dectroying two cnd dawefng eight, while in
 ever suffered by the eneme in a convor attack, ${ }^{\text {a }}$ ine raid wea also interertine for the fact that it narined the debut in the Rediterranean of the CAT's Ee-1ry, a twin-engine mid-wing mononlane with a vine span of orer 103 feet.

## ganforeriot



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Cn the same night as the Dougie reid the eneng attacked shipping ofi the ipland of rocida (near heples), but thore was no damege. tine Ifnal reid of the wonth came on the night of the $3: t h$ when 20 to 25 Ju-88's strucis at a convoy off jenghezi. Danace was slight.

In spite of the losses to this series of attacks on convoys Gozstal's protccting fighters still piled up an excellent recora, in viev of the fact that ships under its eccort traveled 1,543,000 shin miles during the month. 28

The sudden increase in the actirities of GAT bombers in Fotember, ${ }^{29}$ the variety of targots which ther attacked, and their new habit of raiding more than one tercet on the seme night indicatcd to NAAF that the enemy's "Pelz doctrine of concentrating all the availade bombers on a single tarcet et lone intervals, wich has govemed German fir Jorce pructice in the lloditerranesn during past monthe, has anmarently been abondoned. ${ }^{30}$ HAR aight also have come to the conclusion that the bombers were preparing to "throw the ookil at Allied installations and convoys in en effort to disrupt the novement of men end supplies into Italy-but the events of December would shou that the Fovember operations established the high-water merk of the GAF bomber effort in the liediterranean and thet thereafter the hlles had but little to fear fron the enemy's long-rance bombers.

It the ead of lovenber the CAP had around 800 operational eircraft in the Lediterranean and about 120 fighterg in the section of southern
 Italy vere under the operational control of Nliegerlorps II which was
noncrevien

subordinabe to Luftilotte 2; those in Greece and the Legean vere under Fliegeriorps $X$ wich anvarently enjoyed an autonomous status. In the western Nediterrenen the CAF bomper force consisted of six Gruppen in northern Italy and two torpedo bomoer Gruppen In southern France. The force in southern France had been used alnost ontirely agninst shipping; evidence indicated that it was asout to be withdrown to northern irance. She six Cruppen in Italy, showed operations far below their paper strength, nroozbly because of inacequately traned crevs, insufficient crevs, end the GAF policy of conservation. The eneng's fiffter force in Italy tas about equally divided betweon the area nouth of the east-west Apennines and the area north of the mounteins, having three Grumpen generally around Fone, tro in the cturin-ilan area, and another in the general BologanFenice sector. Fhere was one fighter-boriber Gruppe based in the Fome area. In Greece, Orete, and the fegean there were four long-range Bonioer Gruppen and two single-engine fignter Cruppen.

Despite itg inerease in long-runge and fighter-bosaber operations in IIovember, the gar-mas indicated by weal fignter activities-mas in a serious but not necessarily disastrous situation at the end of sorember. Its fighter force had deteriorated rapidy since the end of the Sicilitn campaign as a result of extrenely hich vastage during July and during certain periods in tre Italian carmaign, becase of considerable losses from 1MSH's attacks on alrfields and successfol bomoing of fighter fectories, and fron the GAT's lowering of the previous high priority Which the lediterranean had enjoyed on replecemont fighter aircraft. The latter factor is illustrated by the fact thet le-loy's allotted to


the IRedterranean totaled 220 in July, 120 in Aucust, 60 in September, and about 100 in October. Tie .estern Iront curreatly had the IKo. 1 priority. The Gar fighter sitmation vas likely to rccover nomewhat as c result of the policy of using figntors alnost entirely on defensive operations and because many of the better troe of Italian plenes (notably the (Pacehi-205's) were beginning to we used by the (iAF. Eovever, if Allied attacs on figeters in the sir and on the ground and raics on assembly plants coulc be continued and if the car coula be furtiner dispersed, the fighter situation would continue to deteriorgte.

As for the onemy's bomper situation his unwillingness to press his atteck with deterranation, the poor stancards of his creas, his geriods of Low morale, and the fact that by lecemper the production of bombers bad lone been secondery to the production of ficnters indicated that the enery's bomber force was not likely to become a major factor in operations in the Lediterranean. 32 .

## 

nadr's efforts during lovember were lowcr thon they had been in the previous months of the Italian campaien; nevertheless, they were sizable. In fact, the principal decline was in tons of oombs dropped, for sorties thanks to increased operations by CAF-were almont as many as in Cotober.

A total of 24,375 sorties were flom. © Of these, Strategic flev 3,216, Nactical flev 13,014 , Goastal put 14 7,386, and PEif accounted for the remaining 759. Tabulation by air forces reveals that the USAAF flev 13,060 sorties. Of these 2,826 were flown by USativits for

|  | con-mor |
| :---: | :---: |
|  |  |

Strategic, 7,694 for ractical, 2. 341 for voastal, and $19 y$ for fin; the LAE flet 11,315 norties: 390 for strategic, 5,320 for Factical, 5,045 for Coastal, and 560 for $\mathbb{H}$ Rii.

Fonnage of bonbs drooped was 8,522. Of these, Stretegic dropoed 4,010, Tactical dromped 4,495, and Goastal dropped 13 plus 8 depth charges and 6 torpedoes. The fact that Tacticel dropped more tons of explosives than did Strategic is understandable in the light of weatner conditions anci Tacticel's constant fighter-bomber operations on behalf of the ground forces (as noted avovo). The USAAT aropped 6,753 tons (almont 80 per cent of the total), with Strategic's Anexican units urloading 3,AAS tons, Macticel's 3,378, and Coastal's 2; the RAF accounted for 1,'99 tons, 567 for Strategic, 1,231 for sactical, and 11 for Goastal. In types of targets the final standing for the month wes as follows: gun positions and camps, 1,674 tons; railroads, 1,347 ; $1 / \mathrm{Y} s, 1,247$; airiields, l,074; industrial estaolishuents, 828 ; and port ficcilities, 814 ; with the remelning tonnege distributed anong highoase, cibies and town, 1:/T and enemy movements, shipping, supoly dump, and miscellaneous.

Computation of rictories versus losses indicates that the Allies destroyed 177 eneny planes, probably destroyed 41, and danaged Ge, of these totals the USAB accounted for 126 destroyed, 31 provably destroyed, and 40 damaged. in acidition to there alr victories dilied planes destroyed on the ground 56 enecy aircraft, probably destroyed 5 , and demped 88. MAS lost 150 plenes and had 277 demaged, many of the former and most of the latter beims, viotims of flak. Of these the USASB Iost 80 and had 2lb dmaged.



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A feature of covember operations was the increase in Coastal's activities. CAF flev more then 7,000 sorties, over one-halz of wich wexe on convoy escort; flew over 300 air-sea rescue missions, involving 62 searches end roscue of 13 sid survivors; and destroyed 11 eneny planes, probebly destroyed 4 , and damaged 10. Iuring the month it initiated the "Swamp Eunt," a new sycten of antisubuerine operations in which OAF's plenes atter a sigating meintained a constant hurt, searchinis in increasing numbers and in widening areas until the unoot was lorced to furface, and then attacing. Of greater interest was Coastal is increase In offensive overotions, its fightere flying, 232 such sorites and attacking radar stations, har oor installations, oridees, $x / \mathrm{s}$, gun explacements, A/D'c, cnc erounded aircraft. osis even took on a new sort of offenfive operetion by trice escortine $3-25$ 's on raids.

Froon Cerrier Comend also put in a ousy month. It fiew 18, 88 kours, hauled 4,207 tons of freigit, cerried 25,475 pastengers, evacuated y,217 patients, and transported 3,271 airyorne troops and 3,000 other troops. In the process it lost 4 plenes cnû 1 glicier and had 19 plenes and 35 elidere dameged. ${ }^{34}$

Euring Sovemoer the Allied air forces In the Nediterrancan celebreted tno end of the first year of operations aince the lamdings in "orth Africe on 6 lovember 1942. A sumary 0 thonc 12 months fives some idea oit the extent of air operations in 120 , twe folloving figures "including MiNT, EA' M, the linth Air Jorce, and lalta; 35


Bombs dropped: 123,570 tons-misidiF, 81,306; PAF, 32,504

Tinemz a/c probably destroyed, combat: 1,074
Znery a/c danyed, combat: 2,047
Fneny a/c destroyed, ground: 3,751
tany a/c deuaged, cround: 643
Total enemy a/c dostroyed: 7,3E7
Total enemy a/c probobly destroyed: 1,07A
Fotal enemy a/c dunaged; 2,690
Total eneay a/c found abandoned: 4,634

Zneay ships, 'over 500 tons: sum', 343; probably sume, 201; danoged, 463
'onnage of energ ships: sun's, 318,000 tons; prooably sunk, 317,000 tons; demaged, 699,000 tons.



Ohapter VIII



## Aix Operations.

Iruring Deembar the Jifth end 2 ginth imales, whose advance had becone progressively slower since the boginuing of October, made but littio progress afainst the obstacles provided by teriain, weather, and a atubborn Germen defense. The Iifth took $\mathrm{K}_{\mathrm{ti}} \mathrm{gmono}$ and Venafro but could net ther cross tho Iiri, Valley Delou Cassino nor force the Garigliano Efver; the 3 ghth moved up the coast fros around Fossacesia to above Ortona put inland was wiable to pess orsogne. ${ }^{\text {² }}$

Fad veather, which had so hamered the Allied air forces in lovember, continued in December to be a Iimitine factor, so that the air effort-Winile it was maintained at the highent possible intensity and mas mang tines grcater than that of the cap--was never eile to be the decisive factor in the slow, dreary battle up the Italian peninsula.

Factical Air Force. Yet, December opened uith the pronise of being a. nonth of trenendous air operctions ${ }^{2}$ when, on the 1 st and $2 a$, strategic and Tactical fler more total sorties than on any two consecutite days since the miadle of September. On tho 2d, Tactical flev more than 1,200 sorties-aill excopt 70 of them in cooperntion tith the ground forcesthe efiort being Jap's ereatest since the Tunisian carmaign. Daring that day Das fighters and fightermborbers carried out 340 sorties over the Iighth Arry, attacizing rositions, euns, and vehicles along tine front
(especially around Ianciano), rciding traffic in the exemr's rear, hitting: a bridge over the Pescara fiver above Ohieti, and patrolling over forvard troope. The main part of the day's activibies, hovever, vas over the Fifth Aray front, in a rofteninang program for the Aruy's fuil-scisle otteck which wes leunched durine the night against the enemy's ieg stronghold at ingnono. From daw to dust mediun, lisht, and firgherboipers pounded gun positions around ingano and in the area southoast of Cassino, flytig 260 bonver sorties and 873 fighter-bomber sorties and dropping more then 650 tons of bombs. Targets were well covered and demnge was neave. In adation to these boaning missions Spitfires (USAit and Ras) flet more than 100 offengive and defensive natrols. fnother 70 sorties vere flom over the Yugoslsvian coast in fichter sweops.

The $2 d$ of Decenjer proved to be Dactical's peatr day of the month, for thereafter reather and the status of ground onerations never permitted it to equan itc exfort of that dag. Frioughout the month, howevor, it continued its procran of boning, strafing, and patroling over the Italtan front, in the enemats rear, and over the dugoslavian coast.

Erow the 3d through the rth weather forbede all but a few missions in sumport of the armies. On the wighth Army front fighter-bonoers flew a major mission on the $3 \bar{d}$ which helped the Sritish, Indions, and liew Jealanders to canture San Vito, Treglio, and Lanciano and to penetrate Orsogna, and on the 5th more than 100 P-40 sorties yere of considereble assistance to Net Zealenders who hed been stopped at Guardiagrele. In the Fifth Arry sector the major eftort was the harring of rail anf

road lines and the bombing of bridges north and south of Rone oy A-36's in order to ninder the movement of supplies to the front; other principal operations were a hard smash at Civitaveochia on the rth by bo 3-25's and $36 \mathrm{~A}-36$ 's (Invaders) and a number of attacies by light and fighterboabers on tho bridge at San Ambrogio (west of Rocea) and on bridees north of :IEnano and near Ceprano.

On the Sth and 9th oetter weathor embled Dactical to fly a Iarce numer of sorties over both fronts. In the east, on the $6 t h, 240$ fifhterwomer sorties aided the jev Zeelenders as thetr battled for orsocan, and 180 light and fighter-bomber sorties surynorted the canndians as they crossed the loro Fiver preparatory to ariving on Ortona. On the 9 th and 10th DAE's stronc close support continued, 59 light Domber and soo fighterDomber sorties beine flown against troop conceatrations, gun positions, strong-points, and $: 7 / T$ between Orsogna and lizelianico and $1 / 2$ from Onfeti to the conet. The atteciss on N/T wero so successful that on the 10th 53 vehicles were destroyed and 335 damaged, She value of DAP's operetions during the 9 th and lota was increased brin a ney feevure, the snifting of its fitghter-bonbers to strufing targets after © Domioing misston had peon corpleted, the pilots beint bricied in the afr. In the west, on the oth and 9 th, over $400 \mathrm{~F}-40$ and $4-36$ sorties were tloun ageinst the AvezzanoTrosinone line of commuiontions, troon concentrations aroma raticuso and Santen 31 in, and troons and gun positions at Gan Giorgio, southwest of Cassino; and 60 A-20's bonbed guns and bivouac areas around santa slia.

On the 71 th and 12 th had veather out down factical's operations in the eastern sector to a few sortiee ageinst road transoort and gun positions.



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On the lotn, IIth, nud IStn the weather over the westerr sector peraitted only a limited flgiter-bomber activity againgt Civitavecchia harbor and the strongnolds of Acquefondata and Itri, Spurtire strafing corties against trains near Terni, and a fer B-35 efforts arainst the railvoy at rerracina.
 railuays north of a line from Eome east to the Adrlatic, bombing Pescera, road and reil briages at Giulianova, the junction at Terni, and the station at dquila. Lurlne the period fichters and fighter-bonsors of car contimad to onerate asilnst the Dalnatian coast ang to bora enenyheld ports, while CAS fi hters svept over Tugoslevian airfieles.

On the 13 th the weatner was better over both fronts and continued so through the l7th. Enereafter, until the end of the month, flyins or oombin; conditions were mostly very unfororable so that there were only three days in wiat normal tactichl air activities were possible over the fiftn Aray and only five days in which a full exfort could be made orer the 理ginth Arny. To rain and clouls was added a strong cross-wind, especially in eastern Italy, winch frequenty made operations out of the -questios.

Daring the last half of the nonth the principel activities in vestern Italy vere in support of the Sifth Aricy's slou and oftter operations adeinst the enemy strong position on the hign ground anove Acquafondata and Mignano. From the 13 th through the 17 th effective sorties were flown by more than $1,100 \mathrm{~A}-36^{\prime} \mathrm{s}$ and $\mathrm{F}-40^{\prime} \mathrm{s}, 215 \mathrm{~A}-20 ' \mathrm{~s}$, and $24 \mathrm{~B}-25^{\prime} \mathrm{s}$, while o UShith and Ras Gpitfires averaged better then 100 patrol sorties per day. Host of the fichtor-bomiver sorties, all of then flow by Americans,

wore against lines of commication entering the Cassino sector. Attacks were made on bridges at pontecorvo and Aguino, on roads and bridees alone the Sassinomitins route, and on the Cassino-Sora route; the enery's reinforcenent port of civitavechia also was bonibed several times. the rerainder of the fighter-oonuer pperations were against gro and troop concentrations on the 16th and 17 th in order to soften resistance to the $3 i t t r$ Arrats drive toward the Cassino line fron the Ban Wittore and Acquationdato areas. llost of the targets attacked were around Cervero and Failerotonda. Tre light poaber effort was divided between bonuing the eneny's base at Jiosinone and hitting gun positions at Cervaro, Vallerotonda, and Senta ilie; the small B-36 effort was egainst bridzes around Pontecorvo.

Srom the 18th tnrough the 31st, with only three daws of normal effort, minsions were fev, About 1,000 A-30 and P-10 bombing and strafing sorties were flown, mainly againat positions and guns in the Cervaro area, supply routes, dums, and bases on the sora-Arce and AgneniFrosinone lines, roads and oridges around Cassino, roads and bases at Sante Tlia and Atina, and the docks and $\pi / 4 \prime s$ at Civitareccinia, About 180 A-20 sorties verc flow, tho targets boins generally in the same zones wich the fichter-Donbers vere reidine. "henever the weather per-
 made a few attacks, agoinst rosd ortdges northuest of aguino and the enemy's base at iterracina; $\mathbf{s - 2 5 ' s}$ also dropped large numbers of leaflets over the battle srea.

On only thrce days--the $1 \leqslant t n$, 1 bth, and $19 t h-w e r e$ enemy planes encountered in any strength, adgorgtheserays the fllies begged 13 of the
enemy waile losing 0 . Ior the whole month of operations over the western iront in Italy, XII asc inguters and figinter-bombers claimed 25 enemy planes destroyed, 6 probaíly destroyed, and 21 damaged against 26 Allied planes lost to air and ground action. ine mall bes is indicative both of the wnaworable weather and of the paucity of the GAF's air effort. Glaims against $2 / T \mathrm{~T}$ totalea 54 destroyed and 91 danaged. The small number seens to have been aue as much to reduced road novenent an to the Iimited numer of sorties flown by XII fise. Tne record amainst mail movement was better, 60 eneines and cers veing destroved and 121 densged. three enemy vessels were sun: and 15 danged.

The story over the eastern half of Italy was not much better than it was over the vestern part. The Zignth Army's Comadians snent most of the last two veels of December in a drive againgt ortona, finally clearing it of the enery on the 23th; the Indiane made considernole progress torard Pollo; but the lien zealanders atill were wave to telse Orsogna. It was in aupport of these drives that Dif flew moet of its sorties; the remainder were flown across the Adriutic.

Particularly ingortant days were the 13th, 1oth, 18tn, 22d, 30th, and 31st. On tre 13 th the rajor operation was an attack by $154 \mu-40$ 's on defended positions at Miglienico. On the $16 \operatorname{tn} 100$ fighter-ponbers smaned at gun positions and a number of defenced areas alone the coast chead of the Camadians; 43 Eostons and Baltinores hit gun poritions at
 and damped 27 in the Pollo area, The 18 th was featured by n verax heavy 2-40 exfort against defonded positions and concentrations in the Tollo-


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Canosa sector, but bad weatner rendered many of the sorties abortive. On the $2 \%$ more then 200 Soitfire and P-40 sorties were flown acainst strong-points from Orsoga to the coast, waile farther up the coast other Spatfires and P-su's attacked lines of comunicetion, especially at San 3enedetto.

On tac last two days of the nont' unusually good weather allowed DAF to operate on a big scale. A total or almost 550 sorties were flown oy fighter-bombers and 24 by Beltinores against infantry positions and artillery concentrationg along the entire coastal sector, with excellent results.

Inemy air activity was no greater over the eastern half of the Dattlo zone than it had been over tho vestern, and there were fow encounters. Dat clatmea 22 planes destroyed, 4 probables, and 16 damaged, out lost 4A to enemy ground and air activity. DAP's record against transport was as good as usual: 51 road veniclea were destroyed and 305 daneged; 20 railmay engines end cors were destroyed and 104 dameged; and 7 rossels were sum: and 22 demeged.

DAS's cleims aginat trangort includea a number of successen acrose the Adrietic, although there, as in Itelx, operations were sharply limited by bad veather. Attacizs wore mede on Yugonlevian airfields, Ialmatien ports, and on road and rail lines thich eupplied the eneny for his operations againet ilto's forces. In particular, the Split oil denot, borts and shipping at Sibenik and Zare, and the cirfield at lostar were nit by B-25's. inery fighters were not very active, the min engegeaents occurring on the 16th and lyth and resulting in the eneny losing nine


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Luring the ronth a total of 346 fighter-bomber and 327 medium bomber sorties were flom by war egainst Yugoslavian targets, but many of these vere rendered ineffective by weather.

Coastal Air Force also was active across the Aariatic, its operations there being carried out by Far $2 \overline{2}$ Group, which had moved to eastert Italy in Getooer. Gin, through its ofd wing (currently on Eorsice), also operated offonsively over the Myrrhenian Sea. Operations by the two units included saip strikes and attacks on yorts, reiluays, military insteilations, and motor transport. ${ }^{3}$
dum's operablons over Xugoslevia were areeter in Decenber then they had been during the rocedine two months. Stretegic, Tactical, Coartal, Froop Carrier, and LRis all participated. Their operations wore desiged nartiolly to dostroy as meny German planes, velicles, equiament, etc., as possiblo as a part of the overmall vian of attrition of the enen. "s wer potential. Sut ther were siso intendea to aid tito and the Fartisans cnd thereby to contain large numers of Germen troons and many thousends of itens of equipment which tho enemy needed elsewhere. Sae grouth of IAM's activitfes over Iugosiaria in Lecember pas the result of a directive from the COS, 4 Decemper, wich ordered that support to the fartisans be enlorged, General lisenhower beinc told to increase their supply of amar and equiprent, clothins, meaifeine, fool, etc., and to Iurnish ther "such air numport as you consider adyicable in the light of the eeneral sitwation. $\mathrm{H}^{4}$

In these operations the Italion Aix Foree played a role which


Greaually mev to be one of consmexable ixportance. 3 themidale of December its fikhtern, under the airection of gat, were engagea in Eround-strafing, escortine bombers, and protecting reconneissamce planes, thile 1 ts bonoer tran@ports, also under FaT, wore dropping leaflets and trancgortinf sumplies. E

Stratexic Air Force. During Decenber-an in Hovember--the weather interfered more with Stretegic's operations than with tactical's, but Strotegic's totol effort for the month was alightly higher then it had seen in lovember. This vas aue in some measure to the fect that a muner of its squarons had corroleted their mores to the mainland and the islands by the midiale of Jecember.

Targets attacked followed the same pattern as in hovenber-moilwars and $11 / I^{\prime} s$, afrcreft production and other industrien , counter-alr-iorce and aiscellenpous targots-abut operations against railyayg and if/is wero prector oven ticn they had been during the preceding month, the -emphasis being caused by the weather cnd being at the expense of the targets of the Combined Borber Onfensive.

Daring the nonth Hast 's procram erainst lines of comunication in Italy uncerwent its usual ronthly shift in erghesis. In Septeniber the tangets hed been mostly $1: / Y^{\prime} s$; in October, mostly bricges; in jovember,
 returned to $i=/ Y^{\dagger}$ and auring the month droped bwice es many tons of boins on this type of target as on bridgeg and rail lines. it is posaible that the zuaireman Feoort, which arnesicd late in the month, rith its insistence thet the best wey to interaict lines of commication

was to mash $: 1 / x^{3}$ s and large concentrations of repair facilities and rolling stock, had a strong influence on December operations. 6 of course, not everyone agreed with the Juckerman thesis. hor example, British officers engaged in repairing and operating the Togeta $M / \mathrm{I}^{\prime}$ s in December declared that the experiences of the Sicilian and Italian campaigns chowed that the best way to interrupt rain trafitic was to destroy brides, blocks tunnels, anti cut lines in mountain passes and away From stations; these officers further believed that the best way to render an $\mathrm{I} / \mathrm{Y}$ inoperative vas by wrecking and overturning cars and not by try$i n_{\mathbb{E}}$ to cut reins, ${ }^{7}$ In December, however, such arguments were of less importance than the prosit/ concept.

Strategic started the month with two dews of extensive attacks. On the 1 st 70 Ina $26^{\prime \prime}$ s bombed railway brick es on the Cenoamone line at Sestri Levanter, fula, and Cecina. Tho Ceciva bridge and highway to the northwest were hit; at Ala all boris were in the target area; at Eestri Levente the bridge was missed out hits were scored on the tracing, tine -station, and nearmp warchouses. Over Sestri Eevante and AvIla 10 to 15 enemy planes were mot and for once the Gat won an ariel combat, the score boink 3 U. S. fighters destroyed and 1 missing against 2 enemy fighters shot down.

The largest mission on the lat, however, was against Turin. The main target was the ball-bearing works, which now was more important than ever to the Germans as a result of the synth Air Force's hard blow on 14 october against schweinfurt. ${ }^{8}$ One humored and eighteen B-17's, with P-38 escort, roached the target and unloaded $3 E A$ tons of bombs.


## cuntiondratif

Severe denoce was inflicted on the ball-bearing works and near-by industrial buildings; further heavy damace was caused to the Flat Iingotto works; and tracks in the $: / x^{\prime} \mathrm{s}$ and the north-soutn line wero hit, although troffic was not competely stopped. About 30 enemy aircraft were encountered, two boing destroyed and three being listed as probabjes. On the night of the 1st, 48 :"ellingtons put 83 tons into the Fontassieve l:/Y's (southeast of Florence), hitting the $Z / Y^{\prime} \mathrm{s}$ and damaging the station and industriai sheds jut missing the pou-foot railway oridge.
 tracks and rolling stook in the southern end of the fards. ine $2=30$ escort, while returnine frow the target, was attecied by 33 enemy planes, three of the Eightnings being snot down aceinst tw of the enerry. Neanwhile, 57 B-26's dropped 9 P toms of bombs on the Arezzo ir/x's, with good regulto; and 23 more larauders demeged the bridge 10 miles south of Orvieto with near miesee.

The ifie attace of the 2d wes corried out by lls B-If's ageinst UDost pens which vere under constmetion at larseilles, Yorishops, railway tracts, and rolling stocl: vere hit hard, the entire target area being; covered vith bomb burste. The P-38 escort scrapped with $1 ?$ to 15 enemy planes, destroyins ? and the $=-17$ 's took on another 15 or 20 and claimed 9 destroyed, 4 prodables, and 2 demeged.

Irom the 3 d to the 2ath the weathor was so bad that the Germancontrolled Italian rall way systca suffered less danage tian at any time curing the previous two months. The main effort for the reriod consigted

of 220 sortien $b y$ TAF $E-2 E \cdot s$ egainst reilways along a line from fome to Pescara－as noted above．Strategic＇s efforts were lixited to missions oy B－RE＇s against the Spoleto viaduct and the Orte $: / / \mathrm{Y}$＇（on the Fome－ Eologna line），ond the oridees at Vontiuitilia（at tne Francomatalian Frontier on the Jifee－Genoa Iine）mere goon result were obtained．She only important antitransportation operation by hetvies during the period vas an attaci：by 31 E－24＇s on the Sofic V／Y＇s．Around 30 eneny planes which attemoted to intercept the formations took a licking， 11 being shot dotm to the loss of 1 F－38 destroyed and 1 miscing．

Between the 3 d and the 1 ath five counter－air－force missions were flow by Stratecic＇s hemics．（ne was acainst Guidoria airfield（norim－
 iorces in Greece，whica，havin helped to knock the Lritish out of the Aegean，nov constitubec a threat to Allied saipping in tre eastern Sediterranean and the outhern Adriatic and vere a possiole menoce to Allied operations and installations on the east coast of Italy．On the 6th，成ausis airfield ves hit by 45 B－ga＇s and faleman by 56 B－17＇s， and on the 8th Bleusis tool another poundunc from 61 こ－17＇s anc athens／ Latoi was attacied by 36 Imet＇s．In all four missions the fields were well covered．Enemy planes whici attempted to stop the heavies and their P－z8 escort toor their usual battering： 10 were shot dom，$G$ were probably destroyed，and 0 were dsmeged．The faericens lost two bonvers to flela，waile taree bombers and one fignter vere reported as missing． Strateric＇s ettacks on the enemy＇s railway lines vere intensitied during the second half of Iecember anc，in fact，accounted for aluost


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the entire $\operatorname{SaF}$ effort for the period. Iespite weether whicn conceled meny missions end rendered othors abortive, heavies flew 812 effective sorties and E-26'g carried out " $137 ; 3,506$ tons' of bombs were dropped. The main roubes attacled vere the Brennex Pass route, the Tarvisio route (Verona and Padua to Austria and southorn Geriany), the west-coast route (including southern Trance), and the east-cosst route. The neavies rent generally for the nore northerly targets and the nedums for tergets in central rialy and $w$ the west coast.

The Brenner line was bombed at the Innsoruct: $1: / Y^{1} \mathrm{~s}$ with 402 tons, at the Bolzano IV/Y's vith 342 tons, and at the vieduct over the avisio Elver between Trento and Bolzano uith 105 tous, As a result of these attacis the nost inportant sumply route from Germany to Italy vas able to Iunction only on a greatly reduced scale.

On the Parvisio route 324 tons were dropoed on the Padua $I / Y$ 's, nindering traffic on the line to bologna as well as curtailing movenent on the lateral lines from Frieate and Venice to lifan and the east-coast Iine to Eerrera; and 108 tons were dropped on Dogne (northeest of Venice) darngine the railuay bridee and tumols.

A constant and successful effort vas directed against the westcoast route. $3-26$ 's atteckine west of Genoa unjoaded a totol of more than 250 tons, the tarcets boing tho bridfo over the for Iiver, the intheor viaduct and its aporonches, the Tentiaiglia $\% / Y_{g}$, and the bridses and Jards at Imperio. Attaciss Detween gonea and fome also vere handled by larauaien, tarsebs being the Viarezio : $/ \mathrm{Y}^{\prime} \mathrm{s}$, Eecco viaduct and tunnel, Zoagli viaduct, PiEa $1 / Y^{\prime}$ g and lines, Ceclna $: / Y^{\prime} s$, and


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Civitavecchia harpor, rail llnes and instaliations. Iismuption to the line ras considerable, especially at Oivitavechio where the conbined - Strategic and Mactical attacis completely isoleted the tom.

The interdiction or tho zica-Tome route was complemented by assaults on the by-pess routes in the central and west-central part of the Deninsula. The nain attacks vere delivered against the M/Y's at Pogetbonsi, Foligno, Perugia, Castiglione, Prato, Fryoli, Pistoia, and Borgo San Larenzo, and against the railutar bridges at Orvieto and certato. In addition-as noted above-riAns 3-26's pounded remi and Orte.

In all, the west-coast line took a beating to the tune of some 550 tons of bombs and the by-peas lines were the rocipients of more than 600 tons.

The moat successful antirailway operation, however, vas against the ecst-cosst route. The Simini and Ferrara $1 / Y^{\prime} \mathrm{c}$, tocother with oridges and trecks in the vicinity, were pounded with 677 tons; the railsay and canal junction at ravenna received 72 tons; and 3-20's of ran put 93 tons into the Falconara $: / I^{\prime \prime}$. Fhe dismontion of traffic wes more nearly complete than on any of the other Itolian lines.

As a resalt of these and the zovedibar attacis there war a heavy reduation in rail traffic; troons, labor battalions, etc., vere delayed in roaching the front; and mach time and effort vas lost by the eneny in offectincs repcirs and in trenschiprint. ${ }^{9}$ Howswor, the interdiction was fer fron complete, and linir noted that ta come rison of rail camecities with eneny militery requirements emhosizes tho need for cormete,

simulinneans and continums interdiction of rail traffic sumixing the enemy forces in central Italy. $3^{10}$ Mas then recommended that the Speriansinint line be attectea inmediately and that the lone-range progron include tho lines Genow-Spezia, Aulla-Farme, Zologna-\#istaia, Bologna-Frato, Feenca-San Lorenzo, end Fituini-Ancons. 11

During the last half of the month Stretegic rotumed to the sorie $M / I^{\prime} s$, hitting them with 69 tons. Results were excellent; and 3uldarian morale, already sholsen, was further underained.

In eddition to its raids on the enemy's lines of supply Strategic engeged in several other types of operations Detween 10 and 31 Decembur. Comber-armorce missions vere linited to two ears, the 1Ath and 25th. All of the missions on the 14th wero cgainst airfields in Greeco, the tarcets poing Dleusis, Kalomaki, and tatoi. One hundred and twentif-sim sorties, were flom and 3 al tons of boribs were dropped, by $3-17 / s$ and B-24's. Lanege to the three airfields was severe and, in edaition, II enemy fitihters were shot dom for the loss of one 3-17. ${ }^{12}$ Twenty-seven other bombers, ilocked at Dleusis by thick clouds, unloaded 01 tons on the harbor aree at jiraous. All missions on the asth wero abortive as jar as prithry targets vero concerned, but the airfields at Vicenza (above Fadua) and Yontedera (esst of risa) took lizited attacim as seconderer targets.

In addition to Strategic's several attacis on airfielas, Factical hit Noster in Tucoslevie and the two Ciannino fields in central Italy. The attacs on the Giamino bases was an unusually heery operation, 53 x


250 lbs. of high explosives and 3,743 x 20 los. of frags being dropped within extensive dane to ndmaistrative buildings, hangars, workshops, and aircraft on the ground; 36 A- $36^{\mathrm{I}}$ s added to the damage already caused by the B-20's by destroying 6 planes on the ground in a sweep which followed the medium's raid.

The only attack on the enomy's aircraft production during the last two weeks of the year came on the 19 to when the sesserschnitt plant at Augsburg, site of research and experiment and final point of assembly for the $\mathrm{Ne}-110$, was hot. Fifty $3-34$ 's made the attack, dropping 86 tons through 10/10 clouds, During the trip between 50 and 60 near planes Fere encountered; of these, 13 were destroyed and 3 provably destroyed at a cont of 3 2-24's shot dom and $I$ missing.

In spite of the rather limited number of attaches which had been mede against the German fighter production plants and qu airfields durIns November and December, What was bible on 26 December to state that "the air offensive against the German fighter industry has reached a crimtical stage" and that the industry "is staggering from the blows received to date. 1 However, said Lh AF, "unless these are followed un whether blows the substantial results achieved thus far will be considerably dissipated"; therefore, it would be necessary to re-attack Regensburg . and "Keener Melustadt, to destroy the aria plant at Leipzig, and to smash a small number of specialized component plants in Poland, southern Germany, and southeastern europe. It appears well within the capabilities of allied air power to deliver a fatal blow to the German fighter force throw eh national attacks on the aircraft industry. ${ }^{13}$


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Whis's rarning that further blow ageinst the GAT were necessary was given a powerful boost on the 27th then General Arnold sent a "year'send" message to the Iifteenth. Stating that he Delieved that the Eighth and Fifteenth had not boen concentrating enough on destroying the Gip, but had been reling too many diversionary uses of aircraft, the Comanding Generel of the Arwy fir Forces concluded: "IThorefore, ny personal message to you-this is a find then, in the air, on the cround end in the factories. ${ }^{14}$

In the vords of $\mathbf{M a j}$. Gen. B. H. Giles, General Arnold's messages to s
the nighth and rifteenth put tronsiderable pressure on these commanders to destroy the German air pover. General Arnold has not been satisfied With the effort medo to date. He believes there have been too mant diversion raids . . . that do not materially contribute to the degtruction of the German Air Force. ${ }^{15}$

In the same messages the comandere of the Tighth and zifteenth were assurea that $A A B$ plens were to build w the two air forces at the rate of five heavy grougs per month for each eir force, sending over with each grovo 100 per cent combat crows and 50 per cent replacenent in aircreft, and that "everythine posaible was being done to send to the icgath and Ilifteenth "all the long-renge $P-30$ and $P-51$ escort fignters," although this meant that other theatars would receive those types only as realacemeats to taise care of attrition. "Jovry effort will be mede in this headquarters," said General Giles, tho give you the tools to knock out the Gir at the earliest possible date. ${ }^{16}$

General Arnold also was concerned over the operations of the jighth and Fifteenth on vehelf of the OBO. Lete in December he directed both

air forces to furnish him with information on thelr plamed operetions, covering a period of two months, end periodically to notify him of any proposed changes in the plans. ",nen such plans are received, "ne said, "they will be stuaied to detaraine if they are in consonance witn the planning of this Eeadquarters and to determine if the UsAar's and the FAp's bombings are properly coordinated." Eecords indicated, said General nirnold, that very few successful missions had been flown in recent weeks oy the Gigath and sifteenth aghinst wat Heedguarters, AAP considered nrimary tareets of the $030 .^{17}$

Considering the weather and other interfering Iactors the Pilteenth had not done too badly during the first two months of its operationsout it was obvious that businese would be expocted to picis un with the nos year.

Gai Activities. The Gar's noticeably increused offensive operations winich had fecturad liovember were not continued in Decemuer, although the Laftwatie began the month with its moat suceessiful raid of the entire year. Fins was the zeri affair of the night of $3 / 3$ Lecenber. Around 30 aircraft were reported to nave made the attack, their effort Deing preceded by aircraft waicn dropped radar-jauming "window." Tormally, a zo-plane night attac: by the dip would have produced only limited damage, bat this time the eneray enjoyed a freat success when his bombs hit two emmunition ships which blew up in tho ship-cramed harbor; the reswiting explosions and fires destroyed 17 ships totaling 62,000 tone and carrying 38,000 tons of cargo (mostly hospital supplies and $10,000^{\circ}$ tons of steel plant:), caused heari danage to port facilities (which reduced Zari's

capect ty for some timel, and resurted in many casualties. 18 The success of the raid was due in part to the enemy's good luck in hitting the animution ships and to his sicillful use of livindow; but it was due equally to the Allios' unvise crovding of ships in the harbor and to the lack of defengive fighter and AA eifort which resulted fron poor-and peruaps inadeouatemanmunications and incomplete liaison betueen the several defensive elements.

The Bari raid indicated thet the Germans wero in a position to leunch sudden and oven heary attecks in the IVediterranean because of their central position and becase of the large mamor of air besesthich were available to thon in Italy and tre Dalrans. ${ }^{19}$ This indication apoeared to ve strengthenod on the nifint of $13 / 14$ Decenoer wen the Gry agein Tisited sari, dithough the raid did nnly negligible damage (in part vecause of a good smoke screen) and ti corners shot com two of the raiderv. ${ }^{7}$ the planes cume from bases in Grecce-the first tine that boabers from that area had attacked an Italian target. However, this second raid produced another indication, favoraile to the allies, nomely, that the attacle had been delivered fron greece probably because the enemy was witadrawing his long-range bonions from Italy to fields in northern iturope; and aruonguent rhotographic evidence confirmed this. The reasons For the withdrawal apparently were two-fold: first, the GAF was heving difficulty in operatine from fields in the Po milloy, which freguently are fog-bound in tne winter; second, the enemin's seanty bomper force could not afiord the losnen wich it was bound to suffer if it continued to $\operatorname{mon}$ into $\operatorname{Has}{ }^{\prime}$ 's dexengive fighters. 21 a ginilar withdrawing of the GaF's long-range bombers from the eastern Iediterranean soon becane evident.


Becent for the two Bari raids the enery's bombers made only three otner attacks during the month, against Cestellorizao (Einodes), Augusta and Gatania, and a convoy off Bonghazi. None of tne raids was on a large scale, and in none did the reiders do much canne. 22

The GLI's offensive fighter and fighter-bonuer effort during Decenber was highly variable, going up or dom in terms of the weather or in nrotortion to the incrense or decrease of illlied ground activity. F'or example, the average for the first ilye days of the month was 40 to 60 sorties per das; but on the next two dass, as the Allies launched drives, the effort rose to between 1.20 and 250 sorties per day. For the romainder of the nonth, wen weather perinitted operations, norties averaged from 80 to 100 por dey . At no tiEle, however, did these ectivities pose a serious threat to the dilies, for in the over-all picture the CAF's offensire opercinons were on a limited ecale-as indicated by the inet that during the entire month the fichters of XII ASO and DAF shot down fewer than to eneny offengive plenes. ${ }^{3}$

Dernasively, the OAS could have been expected to pat un a better show than it did. Its systen of fightor defence in northern Itale wes well esteblished br the beglnning of Necenber, and it bad good varning and intorception syrtens. Voreover, it had changed its tactics: instead. of restricting its actions largely to attacks on bonjers-waich inrolved its planes with Allied figioters cad bombers togethex-it was curreatiy going for the fishter escort alone vaenever posciole. 84 Hovever, these Cerelopments did not seer to help the defensive fighters to an appreciable extent, for they attacked only in spots 65 and their Iosges for the month minury



greatly exceedea those of the Alifes. Over Greece and the Malsons the GAF defensive offort wes regutar, but it was moderate and by no means adequate to tho defense of the area. 26

Tho fllied air effort for the nonth vas greater then it had been in Sovember. liore than 30,600 sorties were flown, of which some 27,500 were effective. Of the effective sorties TaF flev 15,COO, CAT flew 7,50U, $3 A B$ ran up $4,50 Q$ and PHir accounted for arouna 530. The TSAAS IIev approximately Ir,000 (62 per cent) of the effective sorties and the FAF 10,500. The greatest difference between the two air forces lay in the operctions of Strategic, fherc the EAr's Collingtonn fleu less then 100 sortien while the USAAT's B-17's, B-24's, B-25's, and B-26's flew close to 2,700 and its escort fighters flev around 1,700. As usual, the phs predominated in Coastal's operations, hut the USiAT elenents accounted ior nore of CAT'g sorties than ever before, racinint up 40 per cent of the total effective sorties as againgt Z2 por cent in soveniber.

Tonnege of bomon dropped was aproxinately 10,500 , an increase of 3,000 tons over the fovember figurc. Stratecic dropped around 5,850 tons, Fectical unloaded some 4,650, and Coastal ves credited vith 16 . Of the total the UShir aropped slichtly more than 9,700 tons ( 93 per cent) wile the FAS dropped around 775. As usual, 3-17's led the parade, unlocding almost one-third of the total tornage, with 3-35's second and E-20's third. The rost notable increese in ectivity was by the E-26's, whit ch ilew alroot three times as many sorties and aropped nearly trice the tomege in Deceriber that they did during the provious month.

In types of targets bombed, the picture vas ver:" different in Lecenber fron what it had been in Liovember when gun yositions and cams led the list, followed (In order) by railroads, $\mathrm{A} / \mathrm{Y}^{\prime} \mathrm{s}$, nirfieles, industrifil establishments, and port facilities, with no one of the major trpes of targets receiving an outstanding percentace of tho bombs dronped. In December, on the contrary $N: / Y Y_{g}$ were far ahead of all other targets, tekine around 3,100 tons, or 30 per cent of the totel. 27 Gun positions and carps riere second with some 1,800 tons, followed by railroads with amoroxinately 1,600 tons, wirfields with 1,300 , rort facilities with 850 , end hichways with 750 , the remainder being aropped on industrial establishments, cities and toms, shipping, and miscelleneous targets. Almont one-
 one-fifth was against uirfields and one-sixth egainst railroads.

In the nather of victories and losses ILAT's record for the month shoved an increase in both departaents. USAAS pianes destroyed in the air 223 enery planer, probably destroyed 45 , and dameged 42 ; the EAT destroyed 36, probably destroyed 8, and amaged 21; the total was 259 destroyed, 53 probably destroyed, and 65 demaged. On the gromd the enery lost 25 planes destrored and about half that many more probably destroyed or damaged. In addition, Goastal sent two U-Doats to the dottom. Allied losses vere $12^{7}$ UUAis and 62 Pap circreft destroyed and missing. In ndätion, 5A4 Allieã planes were dnmaged, 464 of then USAAF and 80 BAS, most of the damesed plenes boing victins of flel and eneny ground fire. ${ }^{28}$

Unquestionaoly, the combined defensive eftorts of the CAF and the enemy's antiaircraft were more effective then they hed been in Lovember

and, in some respocts, more effective than they had been at any time since the beginning of the Italian carpalgn. For one taing--cs noted above-Lilied plane losses vere heaviex. For another thing, the nercentrge of combet creve killed, vounded, or misging in action per 1,000 sorties flow was higher than it had been in lovember and generally above the average for the period from 1 September through 31 December: ${ }^{20}$

| Lonth | $3 \mathrm{~B}-17$ | B-24 | B-25 | A-x | P-38 |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Hov. | 6.156 | 18.687 | 3.026 | 3.064 | 8.632 |
| Dec. | 7.570 | $22.90 \%$ | 3.192 | 3.308 | 10.109 |
| Sep.-Lec. Sivg. | 5.788 | 15.08\% | 3.378 | 2.940 | 10.021 |

Whe percentege of losses was lover than it would otnerwise have been because of coastal's system of air-sea rescue, thich saved 39 lives during the month. 30

## Oresnizetional chences

During December there vere several highly inmortant organizetional and admanstrative chanes which involved the Allied air forces in the liediterrenean. These changes were instituted for the following reasons:

1. To create a more highly integrated lediterranean air ara by:
a. Combining the headquarters of I"orthwest Africer Air Forces (HAAS) and lediterrancen Air Comund (llad) into one headquarters, Noditerranean Allied dir Forces (HAAS).
2. Bringing liddle Zast under control of $\operatorname{AAB}$ so as to meze the entire Mediterranen one unit as far as air overations were concerned.
3. Wo enable the Fifteenth inir Borce to onerate more effectively by:


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응 Givine it complete independence fron the Twelfth fir Force.
12. Leminc it a pert of a projected mified command which would control all strategic oombing from hro and Dio and thereby make the CBO more effective. 31

The first of these developments was the creation of 1 mity which cotually took place on 20 December but was effective as of 10 December. The basic plans for replacing Hab and MC with luta were made in Yovemoer
 and Frime Ninister Gurcitill and thoir Chiefs of Staff. At the conference the British Chieis recomonded that one commander be made responsible for all operations in the Meafterranean and that the Gommander-in-Chief, Allied forces, should assure responsibility for operations in the follovins areas in adaition to those already under his comand: Greece, Al rania, Mrgoslavia, Bulgaria, Furnais, Funcary, Orete, the kegean Islande, and Eurzey. Such cation wuld place the entire Seditormanean monder the Allied G-in-S, thus combining the operations of lidale dast with those of sorthuest Africa. 3

At the same time the Dritish stated that (on Air larshal medder's recomendation the 3ritish Chiefo of 3taff would like to aurcest that the :Iediterrannen Air Comand should be renamed the :sediterranean Allied Air Eorces. $1^{33}$ The name of the proposed new air iorces hendquarters, they declored, had been suggested to Fedder by General Doolittle eerly in October, the latter givine the following reasons for his sugsestion:

1. The desicmition of "air forces" would be nore in keening with the nature of the headquaters than wes the titie "commad. "

2. Two derignations (UAS and "AC) would be replaced by a sincle designation.
3. Whan fnericans have looked mon LAC as a British Headouarters" (to the detriment of Anglomarican good rill) and it vould be uise to elininate the titlo. Air Harshal pedder had ayproved of the suafestion. 34

The recomendation of the sritish chiefs ${ }^{35}$ was tnen considered by the COS in their 131 st leoting ( 3 sinhir, 26 Lovemer 1943) at which time they agreed to the proposel unification of conand. ${ }^{36}$ Suosequentiy during the Confereace President Eoosevelt and .r. Ohurchill laid finsl plens for the invasion of France and selected Genomi $\begin{aligned} & \text { an senhower to be Supreme }\end{aligned}$ dllied Commader, agreed mpon a series of comand shista in the Allied forces engeged in the var ogainst Germing, and decided upon a complete overimul of the Sediterranem theater comand so that instead of its beinm diviled into east and west operational halves there would hencesorth be ta unified command in the liediterranean theater on eccount of its geograpicel unity and its derendence on ell basen in the area. ${ }^{13 y}$

Fursuant to thege developnents the ccs on 5 Decenver 1943 issued a directive-subsequently circulated as $006387 / 3$-which laid down the new structure of the Allied forces in the leditermen:


## THIS PAGE Declassified IAW E012958





 C-In- 0 , Alied Zorcen. For axotier taine, in accorinnce fith the desire for co ceatr lisea toctical control re emressed or air :arskel jecler an






and an 400 -in-0, iliddle Last. This permitted each of these three distinct elements to control those mattors which were peculiar to its owi air units.
linirdly, the lifdale Hast was brought under the control of the Allied C-in-C, liediterranean, and so ceased to operate as an autonomous area. The CG, U. S. Arry Forces in the fiddie last (USAFITL) was placed under the operational control of the C-in-C. Lediterrancen for such ogerations and activities as might de conducted in the eastern Mediterranean, the Ealrans, Crete, the Aegean, and Thricey, although the Cf, USAnlit vould remain responsible to the iar Department for the performance of all functions presentiy assigned to him with the excention of those relstine to operational activities in those four areas. 39

Fourthly, the craation of the nev air organtzation orought togetaer under the Air G-in-C, Nediterranean Ailied Air Forces, every air element in the Jediterranean. The Air c-in-Gy comand corprised all units of the USAR MASO, all sA elements in the Vediterranean, including BAF ME, and all 5AS and Ia wits waich wore operating witnin the zone of idarts control, as well as any other air forces which mignt be assigned to it. 40 Thus, there wes full wity of commed over air units and air operations in the lediterranean.

The logic and value of heving; a tigntly kntt, theater air force would be amply demonstrated many times in the 18 months of air operations in the llediterranean which would follow the reorganigation of 5 December. The nev air force setup of course marised the end of both inds and IAC and the creation of SAAF . Lut to melre sure, $039357 / 3$ stated that
"the Lediterranean Air Command will now be lmown as the lleaiterranean Allied Air Porces.

CSS 3st/3 further nrovided that the C-inmo, Allied Forces would provide the Tifteenth Air Force "with the necessary logistical and adunistrative support in performance of Operstion POIRTsitite as the air operation of first mriorityll; hovever, "should a strategic or tactical energencer arise" the C-in-C might, at his discretion, "utilize the Fifteenth TS Stratesic Air Eorce for ourposes other than its primar: fairsion, intoraing the Comoinod Gniefs of Staff and the Commading Gencral, US Strategic Air Forces in Zurope [USjAFD], if and when that coamand is organized. ${ }^{41}$ This arrangenent was the one possibly dangerous feature of the now setup, for it offered plenty of chances for conflict of authority and assigment between UFsiris and IAAF. 42

At the 138th Keeting of the COS, 7 Decemer 1943, it was agreed. that tho unffication of command in the liediterramean ghould tazo effect from 10 December. Consequently, when tuhat was officially esteblished
 Decerner 1945) it camo into existence as of 10 December.

Between 5 and 20 Decenber, purnuant to $005387 / 3$, the matter of selecting air force commenders for 30 and $2, T 0$ was considered. on the 18th a tentative slate was anounced by General Arnold, after a
 Iarshal Tedder. Whe slate called for It. Gen. Ira 0 . Wiler to move dom from 30 and take charge of idai. Taj. Cen. J. T. Camion was to teke charge of the Fuelfth and : Z,i, Gea. N. T. Evining the Fifteenth. General

Spaatz would go to Eit as CG of USSAFA, General Doolittle vould go as
 Octobor, would continue as og of the linth. 43 mere wes no chringe in Lhtis, which was to continue under Sir Zugh Lloyd.

Gencrel jerer was informed of the tentative slate on the 18th, in a. cable flom General Arnold. 44 General beker replied that if he had any preferemee in the matter he would preter to remain with the sighth. He felt thit if he left at trils stage of the geme nearly two years of experifence in sill would be "wasted"; besider, "to rould be heartbreak. ing to leave just before [the] climax." If, however, he was not to stay with the rigath, it was his recomendetion that iaj. Gen. Idual H. idwards be given comman of that air force and that General Doolittle stay with the Iifteenth, for tho do otherviso loses [the] velue of prior trainine end epperience for their tacks in their respective theaters snd at the wont exitieal time. 45

It. Gea. Jacob I. Devers, CG of the American forces in $2 H 0$, strongiv reconwended that Generel saicer stay with tice : 4 pionth, and even vent so far as to say that "a change of commanders at this time would be diecstrously felt throughout the war. $4^{46}$ General Arnold replied in a nessege which proised General incer's worls vith the Lighth but whicn stated that he could not see his way clear "to matye any change in the decirions already reached. 14 ?

Gonsequently, when O. O. FO. 67, Hq., AFIY, dated 30 December 1943, designated ilf larshal Tedier as fir C-in-o, Hediterranean, and General Snaatz as his Teputy and as CG, USAMF Mimo, it was understood that these

assigments were only for the moment; and two days later General Eaker was assigned to ITO (effective upon relief of Tedder) and General spaatz was assigned to UK (effective immediately). ${ }^{48}$ Later, General Eaker was ordered to delay his departure to MTO until such time as he had been able to give to General Doolittle the full advantage of his long experience with the Eighth Air Force. ${ }^{49}$ on the 28 th General Doolittle was officially transforred to the Eighth and General Twining to the Fifteonth. ${ }^{50}$ General Cannon had already ( 21 December) been assigned as cG of the Iwelfth per orders from Natousa. 51

General Eaker and his Deputy, ỉir Marshal Sir John C. Slesser, did not arrive in 3 ITO until the middle of Jenuary. In the interim ( 20 Don cember-15 January) MAAF's operations continued as usual and under the old chain of commend, Tedder and Spaatz having left the reorganization of the air forces to their successors. 52 In order to clarify the interim arrangement, JMAF issued an Organization Memorandum of 27 December which gate the following instruotions "pending full activation" of waAF:

1. Headquarters, MAC, Algiers, relinquished its title and assumed the title of Headquarters, MAAF (Rear). The element would be responsible for war organization until MAAF (Adv.) assumed the function, also planning, maintenance and supply, and AFEQ liaison.
2. Headquarters, NAAF, and Air Comand Fost (an advonce headquartors at La Marsa, near Tunis) relinquished their titles end were combined under the now titie of Headquartors, MAAF (Adv). The element would bo responsible for all Air Staff duties other than those specifically assigned to "TAAF (Rear), and for RAF administration in Northwest african, Central Mediterranean, and Malta Forces.



3．The administration of EAT units in the liddle East would con－ tinue under Headquarters，RAT IT until the MAF steff had been filled． 53

On 10 December，LAAF had in it 123,864 USAAF and 177，219 FAF per－ sonnel，plus 4，260 EAF personncI－ma total of 305,343 bodies．It had 3，227 USAMT， 9,078 RAF，and 227 FhF aixcraft－a totel of 12，532 planes． bowever，about 60 per cent of the FAF planes were nononerational，leaving an effective stremetin of some 7，300 aircreft． 54 It had operational control orer the following elenenta：${ }^{55}$

1．Strategic Air Force（1LASAF）－－
5th Bomb ining（4 groups of B－17＇g， 3 of fichters）
S2d．Bomb iling（v groups of B－Bu＇s）
47 th Bomb hing（ 5 grows of B－24＇s， 1 of E－17＇s and Bmes＇s， and 1 of f里基ters）
205 Eomb Grow（ 3 wincs of hat iellingtons）
2．Eactical Air Eorce（ 1 ASAFi）－－
XII ABC（ 3 groups of fighters， 2 groups of Itighter－bombers，$^{2}$ 1 squadron of $せ$ ．S．night－ifenters，I tac／recee squadron， and 1 PAF fighter and night－fi，hter wing）
TRE（ 3 groups of $2-25$＇s and 1 eroup of $A-20$＇s）
DAF（ 2 U．S．fíghter Eroups， 2 GAAF wincs，I FAT，PABF and SAAF wiac， 1 PAS and FNAT wing，I PAF and GAAE recon vine）

3．Coastal Air joree（ HO NF ）－．．
62d Iighter＊ing（U．S．）
68d Tichter Wins（U．S．）
242 Group（213）
1 EAT，RAAT，and DAE wing
1 RAT ving
310 th Bomb Growp（3－25＇s）
3 EAF aquadrons
1 RAF and TAF squadron
OAE Blida（PAF）
4．Trooo Carrier Comand（XII MNO）－
51 st f0ir（ 3 grouns of 0 0 27＇s and 0－53＇s）
52d 5Cil（4 growes of 0－47＇s and C－53＇s）
5．Training Comand（XII ro）－－
1 fichter trainine center， 3 bomber training center， 1 tec／． recee squadron，and 1 TAM training squadron
6. Fhoto Recomnaissance i.ing (Miphii) 3d and 5th Photo secon Lroups 336 PRit (Rin and sMAF)
1 EAF squacron

7. Air Kq., Nalta3 RAF vinge, plus. 4 squadrons
8. Air Service Command

IAAF inherited four primary tasins. The first was to bring the maximum pressurc to bear on the Germen war potential by helping to smash its inaustry, especienly its aircraft production. This was sapts job. the second was to support the land armies, in the battle zone and by the interaiction of surply lines. This war Thf"s responsibility, but $3 A B$ would be expected to help of attaciss against lines in northern Italy. The third ves to essist in keopinis open the seamanes and to protect shipping, harbors, rear esteblishments, etc. This wos CAF's tas', The fourth was to cooperate with the Fartisans in the Zalkans. This would be the responsibility of TAF and PCo, with the possibility of help from sas. 56

Tho I'editerranern theater had been the primary proving eround for the use of air powcr in close cooperation thith ground troops ever since il Alanein and had been the crucinle of joint comman ever since D-day, 8 Hovember 1942. 57 To these two reatures there had been added a third: participation in the OSO. Under LAAB the air forces in the rediterranean would be in a position to carry on and to improve the standards which nad been established in 1943 and 1943.

The second of the major developments In Deceaber was the complete senaration of the Iifteenth Air Torce from the fivelth. Then the


Difteonth hed been estaiblisiod on 1 Movember it had remained under the administrative control of the Twelfth．This condition continued until 21 Iecexier，${ }^{58}$ when the Iffteenth was rolcased from all control by the ［wolfth． 59 She task of makint the hwelfth a purely tactical air force in place of an all－pumpose air force was taus completed．

The third of the December developments came on the 22d in the forn of an advence directive issued oy iAFOUSA，whicin stated that，effective 1 Jenuary 194A，the USAMF elements of 24 would be redesignated as follows：

I．Thited States Amy dir Forces，Horth Africen Wheater of Operations

2．「welfth Air sorce
3．Fit゙teenti Air Force
A．X $4 \downarrow$ Air Force Service Comand

E．Il Air Service Area Command（ Sp ）

6．III Air Service Area Command

7．XII Air Foree Fgineer Command（Prov）

8．XII Air Sorce Training Command

9．SOth Photo reconnaissance


## 

Arny Air Forces，Mediter－ ranean Fheater of Operations

Twolfth Air j゙oree
Fifteenth 4ir Force
Army Air Torce Service Comman，Wediterrenean Theater of Operations

XV Air Sorce Service

XII Air Zorce Service Commend

Anty Air Force Incineer Comrand，Mediterranean Eheater of Cperations（Frov）

XII Air Sorce Sraining and Replacernent Command

90th Pinoto Feconnaiscance ling


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On 1 Jonuary these changes were put into efféct. 60 the USAAF in HTO winch they established coningea until the end of the war in zurope.

As a result of the reorganization tilere were five major USAMH air headcuarters in tho theter, all directly under Asp/LTO for administrative control: Eweltth Air Force, Iifteenth iir Force, Aafso/:ino, ANEC/:YO, and 90th Fhoto Reconnaissance ling. at the Degiming of the Italian campaifn all of these elements had been a part of the -welfto Air Force. There werc currently no changes in the operational comends: AASAF, MGAF, MOLF, and MEPN. However, MASC ceased to exist, the Anerican elenent assuming the tithe of ATSSC/:TO and the TAF elenent thet of Headeuarters, 218 Groun. 61

Uncer the new setup all matters affecting CSAAT policy were to be addressod to the CG, AAF/IMO. All matters affecting alloction of stpplies to commane, priorities, movomenta of supplies and personnel into the theater, overwater shipments within the theeter, and transfers within the comends would be the functions of the De AmP/:xC, and his Headquarters would be the agene: to deal with whe and arouse on all matters and with the appropriate headouarters in the U. S. on technical and technical-suroly metters, excepting routine reoorts and other routine natters which would be rendercd directly by the rospective commands. Routine adrinistratite mattore were to be hendled by the respective air forces according to normal and existine regulations. ${ }^{62}$

A final development, smell but important, concernect "An's air transport agency, Lediterranean Air Sransport Service. At a conference

on 2 Hovember between Generals Spaatz, Horstad, Kauch, Air Uarshal Fedder, and othere it had been decided that MAIS would graduelly turn over all of its lorth African traffic to ATC and Pinct so thet by 1 Janusry 1944 it would operate from Jorth Afxica to Italy and the islends and within Italy, Sictly, Sardinia, and Corsica but not within Morth africe, laps had been operating in Italy aince October, and aiter the conference it extended its tripe to Sardinia and Corsich. In order to carry out its cohiftrinto more effectivel it created on 31 December tine Continental Division of HATS, and the ne: division took over tho activities of Advance Hecdquarters, Hans, which had been in liaples since 11 Detober. 64

GLOSSARY

| AAFEC | Arryy Air Force Engineer Command |
| :---: | :---: |
| AAFSC | Army dir Forces Service Command |
| A/D | firdrome |
| AFAEP | Office of Assistant Chief of Air Staff, Plans |
| AFHQ | Allied Force Headquarters |
| AFSC | Air Force Service Command |
| AFSHO | Historical Office, Hq., Army Air Forces |
|  | Office of The dijutant Ceneral, war Department |
| ANPA | Anfa Hotel, Casablanca |
| ACC-in-C | Air Officer Commanding-in-Chiof |
| ASAC | Air Service Area Command |
| ASC | Lir Sumport Command |
| AT | Army transport (ship) |
| ATO | Air Transport Command |
| CAF | Coastal Air Force |
| CBO | Combined Bomber Offtensive |
| COS | Combined Chiefs of Staff |
| C-in-C | Commander-in-Chief - |
| CPS | Combined Planners Staff or Combined Staff Flanners |
| DAF | Desert Air Force |
| DZ | Drop zone |
| EIO | Suropean Theater of Operations |
| FAF | French Air Force |
| FO | Flag Officer |
| GAF | German Air Force |
| GCI | Ground Control Interceptor |
| GP bomb | General purpose demolition bomb |
| LiF | Italian dir Force |
| Intop Summary | Operational and Intelligence Sumary |
| Isum | Intelligence Summary |
| J/CCS Div. | Joint and Combined Chiefs of Staff Division, AFA 2 P |
| JCS | Joint Chiefs of Staff |
| JIC | Joint Intelligence Committee |
| JPS | Joint Planners Staff |



Landing ground

| L/G | Landing ground |
| :---: | :---: |
| 2 H | Mediterranean Allied; pref'ixed to other letters to form LIASAF (Rediterranean Allied Strategic Air Force), etc. |
| MAAF | Lediterranean Allied Air Forces |
| WAC | Lediterranean Air Cormand |
| MATS | Mediterranean Air Sransport Service |
| 1 $1 / T$ | Hotor transport |
| MTO | Mediterranean Theater of Operatiens |
| $\mathrm{M} / \mathrm{V}$ | Wilitary vessel |
| $\underline{M} / \mathrm{Y}$ | Marshalling yard |
| NAAF | North African Air Forces |
| WATO | North African Theater of Operations |
| NaTOUSA | North African Theater of Cperations, U. S. Amy |
| OPD | Operations Division, War Dept. General Staff |
| 0 pn . | Operational |
| FOL | Petrol, Oil, and Iubricants |
| FOTS | Prisoner of trar |
| Fhat | Photo Reconnaissance wing |
| RAAF | Royal Australian Air Force |
| RAP ME | Royal aitr Force, Widdle East |
| RATTC | Royal Air Force Transport Command |
| RCAF | Foyal Ganadian Air Force |
| SAF | Strategic Air Force (Cf. NaSaF, MLSAF) |
| SAMF | South African Air Force |
| S/AS | Secretary of Air Staff |
| SCOHU | Statistical Control and Operational Report Unit |
| SOE | Specisl Cperations Executive |
| SLE | Single-engine fighter |
| S/6 | Secretary of liar |
| Tac/Reece | Tactical-Reconnaissance |
| TAF | Tactical Air Force (Cf. Whtar, LhTAF) |
| TBF | Tactical Bomber Force |
| TO | Training Command (Cf. NATC, LSTC) |
| TCC | Troop Carrier Gommand (Cf. NeTCC) |
| TO, | Troop Carrier ring |
| TET | Iwin-engine fighter |
| UK | United Kingdom |
| USSAFE | United States Strategic Air Forces in Europe |
| 2I | Zone of Interior |



## THIS PAGE Declassified IAW E012958

1. WP III-F-5, Itely, in Office Services Sr., AbAkP,
2. "Air Offensive Against Italy, il 18 jov 42, prepared by Intoll. Service, AAT, in AAG 384.5.
3. Cos 12A, 19 ITOv 42.
4. Ibid.
5. Tbid.
6. OH5 45/1, 27 wov 42.
7. Sicily was nreferred to Sardinie because it was of greater military and political signiflicance, sould be a oetter base for air operations, would contribute tore directly and effectively to openiag the lediterranean, and its loss would be more detrimental to Italian morale.
B. Hinutes, OPS, 39th leeting, 30 ITov 42.
8. Linutes, Ors, 40th Leeting, 3 Dec 43.
9. CPS 49/2, 4 Lec 42.
10. OPS 49/3, 3 Iec 42 .
11. Igid.
12. Cus 124/工, 30 Dee 42.
13. Linutes, OUS, 54th leeting, 31 Dec 49,
14. For the decisions at Sasablence, see $065170 / 2,23 \mathrm{Jan} 43$, and Gen. Disennower's Deport on Sicily.
15. Minutes, OPS, 55th and 58th Leetings, 14 and $16 \operatorname{san} 43$ (AmA).

1\%. IDid. ; Hinutes, GeS, $66 t h$ Heeting, 22 Jon 43 (ANs).
18. Phinutes, Cirs, 66th Seetinet, 22 Jon 43 (AJJiA).
19. Linutes, JOS, 50th, 51st, 53d, 54th, 57th and 56th Meetiags, 13, 14, 16, 18, 21, 22 Jan 43 (ALiA), and Kinutes of 1 st and 2d Special Yeetings Eetween the Eresident and the JUS, $15,16 \mathrm{Jan} 43$ (ANFA).


## THIS PAGE Declassified IAW EO12958

20. Vinutes of lat Special Keeting Zetween the President and the Jow, 15 Jan 43 (AivA); : 3 inutes of 51st, 58d, 54th, 57tin, and 53th Reetings, JUS, 14, $16,18,21,22$ Jan 43 (ATFA); Casablanca Conference, 侯nutes of AluA lieetincs, Jan 43.
21. Oasablanca Conference, IInutes of Aviva Neetincs, Jan 43; CCS 165/2 and $170 / 2,22,23 \mathrm{Jan} 43$. It is interesting to note that apparently neither the Americans nor the British anticipated at this time thet the Allies would find it necessary to occupy Italy. Aecording to General Harshall the Sritish stated that they were not interested in occupying Italy, feeline that it would add to the illies' burdens without comensurate returns. The President agreed with this view. See finutes of 2d Special leeting Botween the President and the JOS, 16 Jan 43 ( $\operatorname{HiNA}$ ).
22. CH-ITF-2240, Cairo to AGAAE, AlStisi 1980, 5 Dec 42; unit histories, 98th and 376th Bomb Gps (H).
23. RAS 㧧dale Zast teyiev No. 2, Jan-ilarch 43; unit histories, 98th and 3'76th Bomb Cge (H).
24. Rat Litidie jost keview Mo. 2, pp. 18, 65, 66.
25. [bid. , pp. 36, 37, 48.
26. Ibid. . p. 26.
27. It should be noted that prior to the Italian camoaign all B-17's in the Kediterranean theater were assigned to the gwelfth air zorco and all B-34's to the linth Air Force and RAB IL.

28. Ibid.
29. Memo for c/S from G-3 Bec., AHde, Action in the Jeatterraneon in the Jvont of the Collopse of Italy, P/55 (final); memo for $\mathrm{C} / \mathrm{s}$ fron GuS Sec., Atru, Action on Collapse of Italy, P/63 (1st draft). Both documents are in Cperations Fecora 3ook (Fom 540), NAC, Feb to Sep 43, inel.
30. AFitw, G-3 Sec., DAltemative Course of Action if HUSAT Becomes Impracticable, "P/D2 (Sd draft), in Opas. Eecord Book, BAC.
31. : Vemo for $0 / 3$ fron G-3 Sec. Aixhe, Action Against Italy After Operation HOBIY, P/70 (1st draft), in Opns. Fecord sook, NAC,
 F/6i (finpl) (revised), in Opns. Fecord Boor, Lic.
32. Foid.

33. Tbig.
34. The imerican view was initially drafted by the JIs, veing approved by the JOS on 8 lay. (Nee JOS 290 and JUS 240/1, 7 and 8 Hay 43, amd Ninutes, Jos, $88 t h$ lleeting. 8 lay 43. The British view is in Arpendix "El, ocs 219, 14 diay 43.
35. $\cos 219,14$ liay 43.
36. Thid.

4U. Thid.
41. COS 223,14 Iay 43.
42. Ibid.
43. COS 234, 14 :3y 43.
44. CGE 234, 17 ITay 43.
45. COS 235, 18 lay 43.
46. COS $23 r / \perp, 20$ Yay 43. On 22 May the Combinea Staff Planners fell in line with the COS plan to leave the matter of future operations in the liediterrmean to Generel bisenhower by preparing and presenting to the COS a report which called for continued operations to drive Italy out of the war; Slcily was to be taken, and thereafter hUSriY was to be exploited ritith such operations as were best calculeted to oliminate Italy and contain the Ereatest number of German troops. See CPS ra-LD, 22 May 43, and ID CIS, 60th leatint, 22 May 43.
47. Minutes, 5th :leeting, GRID4il, 24 Iay 43.
28. linutes, 6th lieeting, TRIDifil, 25 :ay 43.
49. $\operatorname{COS} 244 / 1,25 \mathrm{Jay} 43$.
50. COS 242/6, 25 "ay 43; COS 250/1, 25 My 43 .
51. Alciers Conference, 1st, 2d, उd Veetings, 29 lay-3 June 43.
52. Liotes for 0/S from G-3 Sec., AFVG, Operations after Lusky, P/85, 31 Iay 43, in Opns. Record Book, HAC.
53. Memo for C/S from G-3 Sec., AFHO, Outline ylan tor Assault on Italian dainland, 7 June $63, p / 72$ (fimal), in Oprs. Record Eoo's, ILAC.

54. Tbiㅇ.
55. Herno to $\mathrm{C} / \mathrm{s}$ from Gus Sec., ABKQ, Post-Itusky Operations, P/92 (finai), 28 June 43, in Opns. Fecord Bools, Jith.

57. FAN 165, OOS to cisenhover, 17 July ab.
58. Fifth Army Eistory, Vol. 1, p. 17.
59. Soarcely a day passed durin: the period without the C-3 Section and its allied sections torking on tae details of GUFIRISS, COJLY and the other projected operations. See Opns. Fecord Dools, MAC.
60. Signals Report on Ampibious Operations in the liediterrencan from July to September 1943, 22 Oct 43.
61. AFHK, G-3 Sec. "Apprectation of an Amonibious Assewnt Against the Laples Area," 24 July 43 , P/O8 (final), in Oons. Hecord Boon, Mic.
62. Nemo to $\mathrm{C} / \mathrm{S}$ from G-B Sec., AFEH, Comarison of Operations lUSinn and rophir, $25 \mathrm{July} 43, \mathrm{P} / 100$ (2d draft), Cpns, Eecord Book, MAC.
63. Ibid.
 24 July 43, $2 / 96$ (final), in Opns. Fecord Boor, LAD.

66. OX-IN-19362, Hi senhower to AC:AR for OGS, 27 July 43.
67. Ibid.; see also HAF 303, 马isennower to AGWAF to C0S, 28 July 43, in File III-A, Reel Fo. 59, file 62, Hatr.

68, Ci-II-1143, G-in-0 to AG.JAR, 2 Aug 43.
69. FAI 18B, forith for COS to Tisenhower, 6 Aug 43.
70. An exrlier plan for 3 UFFETSS wan published on 2 august. See Operetionel Directif for Operation bunfens-hro. 1, Ho. Pectical Air Force, 2 Aug 43, in AFNEO. "or an earlier Biviciti plan see

71. Eq. MAF, Provisional Cubline Plon for Operations JUPDRSS and



MiPLE－1E，Notes，Ohan．I
326.

72．Signale Epot．on Amphibious Opns．in Ned．from tuly to Sep 1943， 22 Oct 43；Eq．LLC to OGN世西，Operations on the Italian lainland，
 －Iaming Elemoranda－Zuture Operations，No．1，A－5／43I6（11 Aug 43）．

73．See also ilinutes of a Conference Held at Hain bignth Aray at 1415 novers， 5 Aug 43，in Aisiol

74．LAAF，A－5 Sec．，＂doministrativo Implications as Between BUISPDSS and avalatione，＂ 8 aug 43，in File III－A，Reel 39，file 62，WAAF．
 （1．AF 318），Freedom to AGidaR for CSS， 10 Auc 43；C：－OUT1－3733， Hisenhower to 0－in－C lied．at eje 10 aug 45 ．A sumary of the plans for EARiRAOUDA appears as Annex so． 1.
 Corsica， 7 June 43，P／89（finel），Opas．Record Jook，ino．

77．linutes of leeting of JOS vith President Foosevelt and Secretary Stimson， 10 Aug 43；OOS，106th Deeting， 14 Auc 43，

78．EAI 198，COS for Eisenhower， 20 Aug 43；ORTIIT－16715，insenhower to AGURE for COS， 22 dug 43.

79．Ci－Ni－9451， 31 senhover for larshall， 13 aug 43.
拄sennower for Marchall， 15 Aug 43.

81．It should be noted that General lark Clert，CG of tha Eth Aridy， strongly favored the area around the mouth of the Volturno River （Gulf of Gaeta）over the Ealerno area，provided the air forces could furnish air cover that far from the Sicilian airfields，Upon oeing told by Air Varshal Tedder that such cover was not possible， Generel Olart：aondoned his preference for the Volturno assault． History of Tifth Army，Vol．I，pp．20， 21.

62．Whe forces which would be used vere those which were being set up for AVALALOZE：C－B＇s plene for invading netr forae vere based on the arsumption that 3 apmoni had been successfully launched．

83．Temo for 0／S fron 0－3 Sec．，iFHQ，Assailt in Pone Aree 14 August 1943，P／103（final），in Opns．Records E00k，［AC．

84．KOMOUR－E685，issenhowor to C－in－C lied．et ald 16 Aug 43；HAF 326， 3igerhower to AGUAR for COS， 16 Aug 43，in FHIe III－A Peel 39， tile E2，lians．
85. Signels fot. on Arpaibious Opns. in the ked. from July to Sep 1943,22 Oct 43; MO-OUL-7820, Lisenhower to L. Fi. Dougles, US har Snipping Adm, 19 AuE 43, in File III-A, reel 39, 位ie 62, NAF; The Italian Canoaign. Hestern ILaval Task Force: Action Report of the Selemo Landings, September-October 1943,. . 68, in AFsio (cited hereineiter as Nestern havd Fask Force).
86. 1st and 2d leetings of Precicent and Prime linister with COS, 19, 23 Avg 43.
67. Heetinge 106-115 incl., OUS, 14-23 Aug 43.
88. $\cos 303,303 / 3,319,329 / 5$, on $9,17,19,24$ Aug 43.
39. Minutes, cos, 1lth lieoting, 34 iug 43.
90. Itinutes, ccs, ll6th : Keeting, 24 Aug 43.
91. $\cos 319 / 5,34$ Aug 43.
y2. $\cos 328 / 1,27$ fuc 43.


Chapter II

1. Some kiouledge of the structure of the illied air forces, especiaily of $H A B$, is also necessary to an understanding of the changes in organization waich would tske place during the first four monthe of the Italian campaign.
2. Discussion of the elements combrising HAAF is based upon HAAF orgenizational charts for 24 August and 9 September 1943 ond upon the Adrinistrative History of the Mvelfth Air Force. For a complete picture of incr, see Annex No. 2 , Charts 1 and 2.
3. By 9 September one wing of Spitfires and gittyinaws had been moved from LAF (Eear) to LAF (Adv), while one of the Spitfire vings had been trensferced from inv to DaF.
4. By g September the Palermo, Tunis, and Sousse Sectors hat been pulled together to comprise a separate echelon under iACAS.
5. For details of the structure and functions of IdAto--particularly of its U. S. component, XII APGC_Original XII Air Force Service Command from Activation to 1 Jenuary 1844.
6. Historical Lata, Nediterranean Alr Transport Service, 25 Llay 194331 Tay 1944; He. AAFSc/ixo, History of AAFsC/ITO, 1 January-GO June 1843.
7. For additional deteils, see Eistory of XII Aux Force Preinine and Replacement Command, 18 Februiry 1943-20 July 1944.
8. Diary, AC/AS, OCcil, 22, 23 AuE, 10 MOT 43 , in APSEO; History of NAPEM, 16 oet 43.
9. Diary, AO/AS, OCCD, 17 Hov 43.
10. Data supplied by Statistical Control, Hq. SAr', September 2945.
11. See The Higtory of liAhF, December 1943-1 September 1944, Vol. I.
12. Kq. 12th AT, Operations and Sthtisties of Twelfth Air Force, in AYsuO.
13. Hg. MAAF, Provisional Air Outline Plan for Operation "Avalancha, " A-5/P. 8 (finel), in ANsFO.
14. The Iatter $x 1$ orare is based on internal evidence in the Provisional Air Outline Plan and on other sources, none of whichrere in complete aqueenent.


$40 \tan$
15. Data supylied by Statistion Dontrol, Hą. AAP. Accoraing to 23d SOORU, USin in personnel totaled 103,167 bodies (13,539 officers and 69,028 enlisted men), an understreagth of 3,623 (1,927 officers and 6,696 enlisted nen). See Eq. 12th AF, Opermitions and Statistics of Fwolith Air Zorce.
16. Provisional Outline Air Plen for Operations SUIERESS and $3 A Y 0$ ax,
 po. 6, 12.
 Ha. IHAF.
17. HC. LiNaF, Operation Avalanche; Hq. DAP, Operation Instruction Io. 10, no date.
18. Ibid.
19. Fixtn Army Bistore, Vol. I, pp. 25-27.
20. Sotween 50 and 45 thousand troops were expected to $s$ ashore on D-dey.
21. IO Corpe incluled the American lst, 3 and ath rancer battainons.
22. Later plans reavitad in canceling the employnent of the gad Airborne Division as a part of the D -day assault forces in favor of an dirborne operation at Pone. This plan, too, was canceled. However, the 62d wos nut to good use later in the invasion; see belov.
23. Fifth irmy History, Vol. V. pp. 26-33,
24. Festern Haval Fasi Force, pp. 76-82.
25. The Control Force was under Wice Admiral Hewitt; the Southern Past Force was under Eear Admiral Hall, USif; the Horthern Tas's Sorce was under Comadore Oliver, En; the Jupport Cerricr Force was comanded by Fear Admiral Vim, Fin; and the Diversion Group vas under Cantein Andrews, US:.
26. Hifotes on the Inpication of sir Ansault on Italian Iainlond-magies drea, " no bate, in Tile III-A, Reel 39, file 62, Mis.
27. Inid.
28. TOJ. F Eq. LARAF, Operation Avalanche. There was no shortage of lone-rance tanks ior P-3s's. III ASAD (S) reported prior to 25 August that up to 1,300 were on hand. See "iotes of a Conforence Held at inafr Headquarters on 23 Ausuct $19 A 3$,"in AFisino.
29. Lar 303, Jisenhower to $\Delta G$ fan for SNO, 28 July 43, in Tile III-A,
 to 之, senhover, 2 Aug 43 . In requesting this shift of units of the
 lead the groups dow in person as that would maite it quite plain that the transfer was a temporary one.
 Devers to Larsbell and Arnold, 1ts Aug 43; Cil-Lli-12549, 3isenhover to Larshall, 17 Aus 43; Ci-Mi-14200, 3 senhover to AGine for oos, 19 Aug 43.
30. Dixm- 14627, Arnold to Bisenhower, 20 Aup 43.
31. AO/AS, Plans, Ho. ANF, DIvision Digest, 3 Aug 43. For additional data on the advantages of taming all E-20 grows (but no 3-25 (Touns) into $\$-17$ croups, as proeented by Itwelfth int Force in Sentemiver 1943, see Kq. 13th AF, Operationg and Stetictics of Melfth Air zorce.

3A. 0:-OUL-1137, DLarsinall to Derers and iisenhower, A aut 43.
35. Di!-II-3986, Biscmhower to Harshall, 5 Sep 43.
36. Hq. MAD to OC Jhim, Operations on the Italian Eainland, 31 July 1943, in Opns. Fecord Book, lisc, App. "ry.
37. Cis-0UT-254l. Larshall to ilsenhower and Brereton, 7 ing 43.
38. Cin-UTR-2371, Arnold to Breroton, 6 Aug 43; see also 0.MODP-959,

39. C:1-004-13047, Spants to innold, sigmed 道seahower, 18 Auc 43; CNETK-17606, Brerobion to AGAFI for Arnold and Varshall, 23 due 43;
 for irnold and Narshall, sifned 3rereton, 29 Aug 43 . The 98 th and 376 th Bomb Groups (Eeary, 3-24), already operating with the Twelfth, the 37th Froop Carrler Squadron, and eight supporting undts were to oe transferred from the Jinth to the Fwolitin as soon as the Dvolfth's hervies were ready to nove to forward bases. Fersomel of these units yould total you officers and $\mathrm{C}, 300$ enlisted men. See ditric-23053, Brereton to lersiall et aln 30 Aug 43.
 Eeel 39, file G2, MAiP; O:.-IF-668, Disenhower to AGVAR Ior ges, 1 Aus 43; CUS $280 / 5,6$ Aug 43; Cl-II-6̂603, Fisenhover to AGMAR for GOS, 11 Oct 43. For the asrembly of GQ-4h's in the theater see Ha. ARTES/iTO, Aircraft and Glider Assembly in the LIO, in AFSiOO.
41. Jeno for 0/S frow G-3 Sec., $4 \mathrm{BH} \%$, Requirementa of kirbome Troops and Oreft for Future Operations, 5 Jul : $45, \mathrm{~F} / 93$ (final), in Opns. Record Book, Wh; Kortwest Africen Troop Carrier Conmand (Frov), Renort of Cperations and Activities Incluring the Sicilian Campaign, 18 Ihyy-31 July 1945; Hg. XII Troop Carrior Command (Prov), A Fenort of TCC Activities Including the Italian Gamoaign, I August30 Neptember 1943. All in ANSiO.

43. Ha. LA4F, Provisional Outline Air Plan for Operation "Avalancine:"
44. Ibla
45. Ibld. ; Oreanizational Chart, iniar, prepared by 23a soofu, 25 suec 43.
46. See pp. 10-13,this study.
47. Kip Hdale tast Foviev No. 3, April-June 43, ph. 31, 38, 47-51.
48. Ibid. , pp. 50-01, 53-54.
49. Ibid. , p. 70.
50. Minth sir Force A-2 Periodic Feport ino. 40, 10-10 July 43, and 50. 41,
 6-13 July A3; Twelfth Air Jorce Heekly Isum Ho. 3E, 10-16 July 43; Bas Led Rexiey Io. 4, Jwly-Sep A5; ThiF , Jeekly Isua Ho. 37, 24-30 July 43; IAATH Operational and Intel. Suas Ios. 143-153, 1u-33 July 43; NASAB Participation in the Gicilian Campaicn; inAF, A-3 Sec., Operations Bulletin Jo. 5, 1-31 Aug 43; JIOA AHㅐㄴ Isum No. 161, $13-20$ July 43 ; hiAh Teerly Isum No. 38, $31 \mathrm{Jul}-6$ Aug 43; RAF :idale East Weelty Isma 110. 163, 27 JuIym Ang 43.
51. Ibia.
52. Itr. , Spaat: to Arnold, 30 July 43, in AAG 312.1.
53. Hq. 242 Gp, Operntional Instraction Mo. 13, Operation PAinidur, 21 Julv 43.
54. Mann Opnl. and Intel. Suras los. 163, 165, $173,176-178,3-17$ Aug 43;

 Julv-Sov 43.
55. Hq. 1Astr, Provisional Outline Ajp Plan for Operation "Avalonohe," A-5/P. 8 (finel).
56. The Mwelfth Air Zorce in the Southern Italian Gamaign.
57. Mrare lostru," a Keviow of Nain Operations, terch 1943mSeptember 1944, p. 2; "arity, Operation Avalanche.
68. CN-Lij-19E75, Lisenhover for Marshall, 26 Aug 43. For further details of the career of the anitisubarine squadron, see AASEH-7, The Antisubwarine Conmand.
59. Annex No. 2 to Dield Order K. 2, Ka. 13th Eighter Ming (rov), 6 Sep 43, in Operations (Sp), Pt. IV, 12th Fighter ifng (Prov); HiLAS, Operation Avalenche; Hq. TAS, Operational Directif for Operetion "Avel mehe' IVo. 1.
60. $W_{\text {sioter }}$ on the Air Implication of Air Assumbt on Italian kainlendIoples Area, " in File III-A, Seel 39, 住le 63, HAAT; Hq. "AAF, Frovisionel Outine Air Plan for Ooeration "Avalancino," A-5/P. 8 (tinal); C.-TM-237l , Jisenhower to AGrAR for COS, 31 AuE 43 ; Operation Avalanche, "Musis; vestern laval Fask Force, p. 200.
61. Annex Ilo. 2 to Field Order Fio. 2, Hq. 1 th FJ (Prov), 6 Sep 43.
62. Hq. MAAF, Provistonal Outline Air Plan for Oneration "Avalanohe," A-5/P. 6 (final), Pt. I.
63. Ibid. ; see also Pt. II.
64. Hq. MAF, Outline Air Plen for Operetion "Avalenche," Pt, II A-5/P. 8 (final); Cil-IN-2371\%, zilsenhowor to AGUSE for oOS, 31 Aug 43.
65. Field Order 10. 2, Hq. 12th Fif (Prov), 6 Sep 45; see also "Zatimate of zuildup of hir Forces on the Italien inainlend, " no date, no ha., in File ITI-A, Feel 39, Iile 62, Nith.
66. "Projected buildind of Air Forces-Operation AVALAMCa, " no date, no hq., in File III-A, Eecl 39, file 63, HABE! It was plamed to continue the baild-up until, by D plus 100 (mid-December), virtually all of hatis combat aircraft woula be based on the mainland. Ibid.
67. Itr., Hg. XII ASJ, to All Concerned, 36 Anc 43, in File III-A, Eeel 39, file b3, HAB' Field Order No. 2, Kq. 12th Fis (Frov), 6 Sep 43; Di-NTS40\%, Algiors to (?), $\therefore$ Sep 43 , in AO/AS, Plans, -iuropean Br.
68. An. "Hi to Annex 6, Hq. Fifth Arra, 34 dug 43, in File III-A, Reel 39, file 63, 1Hair; Fq. Allied Central ied Force, Hair Support Control Arrangements for Operation Ivalanche, "1 20 Jan 44, in A-2 Liv.

69. Fiestexn Faval Tas: Force, p. 198.
 Heol 39, file 62, LLN'; CX-II-23717, Zisenhover to AGHAR for CUS, 31 Auc 43; arnine Order ITO. 2, Froop Oarrier Comand, I Sep 43; Hq. XII LCO (Prov), A Seport of YOC Activities, Including the Italian Campaign, 1 August-3. September 1943.
71. Ha. XII HCN (Prov), A Feport of tiN Activities, Including the Itelian Gampaign, 1 August-30 Sentember 1943; Histore, 5ed Troop Carrier Tine, Mus © 3.
72. Iof.
73. Hg. iatir, Provisional Air Outline Flan for Operation Mavalanche," A-5/s.o (final); ilhre lostrum."

75. Directive, Hq. Ho. 242 Gp , RA5 to Midar at al, 3 Sev 43, Operationa (Sp) ivalanche, in AESHO.
76. History of Army Air Porce Service Comand, ITO, 1 Jan AA-30 June 44; Eistoricel Iata, Lum, 25 lay 43-31 Lay 44.
77. AFdiv, to All Concernea, Subject: Air Mranszort Service, 26 Aug 43 , in Opus. Record Book, MiN, Anp. Wr: $\overline{\mathrm{E}} \mathrm{eb}$ to Sep 43 incl.
78. Provigional Outhine Air Flen for Operation "dvalanche."
79. History of liorthuest Africen Photo Leconnaissance ving, 16 Oct 43.
80. Ibia.; Hg. Army Ground Forces, Onservers Eotes on the Italian Dempaiem, During the Herioc 25 August 1943 to 7 September 1943, incl. 5 Dec 43 , in ing 370.23-C.
81. History of the Original XId Air Eorce Service Comand, Hq. AsFSU/MNO, Arrcraft and Glider Assenbly in the ilediterranean theater of Operations, Decenoer 1942-Eecemoer 1944.
82. History of the Oricinol XII sir Foree Service Command. See
 to 411 Concerned, 24 Aug 43.




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 of rocs Activities Including the Italian Gamraign; Hq. 1AN Amendment lio. 1 to Operation AVALinifis.
37. C:-İ-4570, Zinsenhover to Auratif for Cos, 6 Sep 43.
83. Ibid. Outline History, 5lst Trood Carricr iinz, l'f Ausm 30 Sen 43. The full atory of the Taylor-Gardiner mission is in innex 10.1.



41. Hq. MAAF, Provisional Air Outline Plan for Operation "Avelancne, it A-b/F. 8 (final); Hq. HAAr, Provisional Air Oathine Plar for Opera-

92. See pp. 61-63, tais study.
53. OSS Fapor "Air Attack Against Bridges and :arsnalling Yaros," 7 itarch 44, in AC/ AS , Plans, Juropean Br., "Italy' inic.
44. The summay of the bombine effort agaiast Italien bargets during the period 18 August-2 Septeaber incl., is taren from Ho. NAAB,
 Intons Suas lios. 28-x4; Fq. Hifinit Int/Opeums jos. 130-146.
95. The Twelfth Air Force in the Southorn Italian Compaitm; Ear Ned Rexiely, ITO. 5.
96. Ci-m-16E97, 12th $D$ to (?) [paraphrase], 27 Oct 43 , in AC/AS, Flens, : Buropean 3r.
y7. Itr., Gen. Sparata to Gen. Amold, 21 Sep 43, ALO G7O.2-T.
98. DAN Ked Pcriew Mo. 5.
*
Y9. Tho attack on the Foceia corplex mav well have been a turning noint in the air var in the liediterrancan, for after the attecm losses of Allied bombers to eneny aircraft declined sinarpty.
 BALIOHF, $\pm-5 / 2.6$ (incal).

 incl.
102. BRE Led Eeviey Ho. 5; Hq. Mifl, Intons Sum Mo. 43, 2 Sep 43.
103. The ense with which the BAFOM landing vere mede showe the wisdon of thes procedure.
 Intoms Suas Los . $27-30$ ixcI., 17-20 aue 43.
105. Hq. LAAF, Mir Intel. Mecky Sum Ho. 11, 21-27 Auc 43; Hq. LaSAY, Intops suras Mos. S1-37, 21 cnd 27 auc 43 inct.
106. This decline in German fichters in the Too was noticeable as ecrly as 20 August when Intellicence reports indicated that less than 40 fighters were in the Toe and that such airfields es Crotone and Ionbecorvino rere entirely abandoned. See Ho. MAF , Lir Intel. cechy Sum To. $40,14-30$ iug 43 .


 ThSiF', Intops Eums Fos. 28-43, 28 mug-3 sep 53 ; Mare jostrun, II
109. Inid.
110. TAE Led Petier: No. 6.


113. The fect thist Italy would enwounce ins surreader on 8 September coes not materially affect tho Italinn air potential as of 3 September, for there was no vay for the Allies to lnow at thet tire how mens of the Italian planes would oe flown atainat stimow either by Italian fascists or Cermans. It is true, however, that durine the veek from 3 to 9 eeoteciver the greater fart oi the ILi" vas grounded, partiv" becuse of bedoclio's efforts to ascist the Allies and partly because the Geminns had denied fuel to most of the Italian plenes.
114. RaF led Rexiey No. 5.


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Ghapter III


 №s. 146-147, $3-4$ Seo 43 .
2. Tbid. ; Ha, LiAAF, Operational Sual Lio. 195, 3 Se, 43; Eq. 1.ASAT, Intons Sur 1io. 44, 3 Sep 43; EAF Hedi Reyie: 77. 6; CIMTITS161, Spaatz to دGWin signed in senhover, 4 Sep 43.
3. RATH Led Eextey To. 5, Cot-Dec AZ.
4. The statement is based on a study of the events of avaluicsi D-day and after.

 3 Sep 43 ; Hq. 4345 , Intops Sum Ho. 44, 3 Sep 43 . The discuseion of ground and air operations on the Toe fron 4 through 8 Sentember, wich follows, will be based won the above-nawed sources, with any addtional sourcos beine properly listed.
6. CN-IL-4L21, gpentz to AG:AR signed Ji senhover, 5 Sep 43.
7. Eq. 12th $A P$, Cporations and Statistics of Swelfth Jir Zorce.
8. LAPEif, Detailed Interpretetion Report io. D. S. 25, 17 Sep 43 , E-34065, in A-3 Lib.
 Ha. FAF, Opnl. and Intel. Sum Ios. 195-198, 3-6 Sep A3; ADSit Intops
 Zisenhorer, dated $4-7$ Sep 43 , in A"sto.
10. See also pax Led tevieti to. 6.
 Hod Eexiey 30.5.
 suAs, Opnl. and Intel. Sums Lios, IVE-201, 6-10 Sep 43 incl.; Hq.
 and Statictics of Iveltth Air Forc ; Jfurh; Letailed Inierpretation Ferort ITo. D. S. 25; Hq. XII womber tommend, "Ealerno Operations";
 Operation diditichis, in ASto.
13. Iot영.


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Antill-15, Notes, Uhav. III

1s. Ibid.
15. RAE Lea Fexiew *o. 5; Ho. HAAT, Aix Intel. "elelw Sums los. 43-43; Hq. NALI, Onnl, and Intel. Sums Los, 195-301, 3-10 Sen 43; Ha. Hisit', Lntops Sure llos. 43-48, 3-9 Sev 43. The Zd somberdment Group cleired 14s of the Erascati victories. See Tarrative Account, 2d Iomb Go (ii), Cer 43.
26. Ihio.; se0 also Reports by Operational Eesecroh Sec., Hq. Paf/ixi kin, lediterranean Air Cperations Turing 1943, in AzSiU.
17. Tbici.; see also Hq. 12th AF, Gerations and Statistics of Tvelfth Air Eorce, 25 Seo 43.
18. Toif.; sce also Hg. VACAP, "Their Victory faid ware lostrum."
19. : iestern Laval fasi Force; memo from the Comendant, USiN to ge lst Larine Amphiblous Corps, Observetions in the Juropean Theater, Incl. A, 11 sov 43, $\mathrm{k}-39666$, in $4-3$ Lib (cited hereicufter as Commandent, visu, II Nov 45).
 Bisenhower to AG.AE for OHi, 9 Sep 45.
31. Operations Order No. 21, Hq. LAD, 7 Sep 43; Gperations Order ino. 12, Eq. XII Bomber Conrand, 7 Sep 43 , in LiASH Coperations Orders, AFsiu. All fighters on the nainland were to fly to southorn Sicilir, wile oonbers, transoorts, etc. vere to proceed to iortin firica or western Gicily as decreed by their range. Aircraft on Gardinie were to go to lorth Africa; those on Creece anc illonia to .orth ifrica or Stcily, sccording to range; and those on the Eodecanese Islande to Conrus. (Inic.) Actualls, very few of the Iin planes come in, the Germens having effectivoly imobilized then by denting then fuel For some days prior to the surrender. Whe Germans tools over and

22. Of the $2 \overline{3} 4$ units of the Italian fleet 233 reached illied ports or the Ealearies. Of the other 66 units, 54 fell into Geman hends and 7 wore unaccounted for. 0. . . I. Feemy, $8 \mathrm{Sep}, 6,13$ cet, 2 Lec. 43.
23. Western Naval Fask Norce, pp. 9-12; Signals Fpt. on Arpaibious Opns. in tize led from July to Sep 43.

2А. Western Kaval hask Force, Pp. 9-12; Eirth Army History, Vol. I, p. 31.
25. Sisth Army listory, Vol. I, pp. 23, 32; Cominname, US.e, 11 Nov 43.

26. Firth Ariy Eistory, Tol. I, pp. 32m4; :entern Laval Tasix Force, pp. 1s7-15A, passill.
27. Ceatern Prval Pesir Force, p. 168.
23. The Fleet Air Arm's Searires, like the Sicily-based planes, vere wader operebional control of XIL ASU; howsver, theix control was slightly difierent, iseing mintained throug the fighter-direction facilitios of ElS Whater Gueen which got instructions from the XII ASO control on USS sricon.
39. Hq. MASAF, Operation Avalonche; NAAF, Donthly Operations Julletin Ro. 6, Sep 43; Current Eeports fron Overseas, Ho. 23, British Jar Onfice, 12 Narch 44, K-53324, in A-2 Itb.
30. Western Mraval Task Force, p. 196.

3I. Commandant, USin, 11 yov 43, Incl. "P. 1
32. Nati, Omy. and Intel. Sua No. 202, 10 Sen 43 ; Durrent Feports from Ovarsees, :\%. 29, 11 liov 43.
33. Dise, Sonthiy Operation bulletin Ho. C, Seo 43.
34. Comandant, UEA, 11 Nov 43, Incls. HAll and tr. "
35. :ientern Faval Faciz Force, pp. 142-143.
 201-202, 9-10 Sep 43; Hq. YALF, Honthly Operotions Bulletin 1\%. 6,

 the Admiralty on 20th OctoDer 1943 to Consider the Lessons Learnt from

37. Uestern Laval Tas: Force, pp. 11-15; Eq. NARF, Opnl. and Intel. Suns Hos. 21-202, 9-10 Sep 48.
38. Western Maval Tasis Porce, p. I8.
39. Ibid., pp. 11-18; Hq. Whit, Opnl. and Intel. Suns Ilos. 301-302, 9-10 Se2 43 .
40. Thid. F Hg. Hatat, Operation ivalanche.

 Operation Aralmene; FAP Med Fevicy \%o. 5, Oct to Dec 43.
43. Comandont, USM, 11 Mov 43 , Incl. 43."


## 44. bic.

45. Hg. Allied Central Zed Force, HAir Support Control Arrangements for Operation 'Avalanche,' 25 Jan 45, $\mathrm{K}-4540 \mathrm{O}$, in A-3 Zip.

46. All heavy, neditu, and light bomber flights on D minus 1 and D -day had to be coordinated with the Wave, drop Terrier Comand'ond Coastal. On D-day all flights had orders to by-pess the Salerno
 Operation AVALATOHI.
47. Hq. THis, Cpl. and Intel. Sum g Mos. 201-202, y-10 Sen 43; Hq. Map ar,
 Oct to Dec $43 ;$ Eq. 13th AF, Operations and Statistics of Twelfth dir
 Intros Sum ITo. 49. 9 Sep 43.
48. Hq . MAP, C P nI. and Intel. Sums Nos. 201-202, 9-10 Sep 43.
49. 0:-m-7325, eisenhower to Ache for DUx, 9 Sep 43.
50. On the afternoon of the 9th Col. John G. Ayling, Oinief of Staff of III dir Service Area Command ( $\mathrm{S}_{2}$ ) had landed on the airfield in a B-2E loaded with redio equipment. Colonel Ayling was apparently under the inroression the the enemy had abandoned the field. As his plane rolled to a stop German 88-ing. shells smashed into it, setting it on fire and killing Colonel dying nad his pilot. No Further attempt was made to use the in eld until D plus 11 ( 20 September). See History of the Original XII AFON, Hq. AArso/HIO.
51. Fifth Amy History, Vol. I, np. 34-37.


52. Report by CG XII ASO, in Western Reval hast: Force, p. 19.
53. This appears to have been the first use in the lifo of missiles of these two types. Both types wero guided missiles, probably being directed by radio control iron the dropping aircraft. Early estimates gave the bombs an 8 -ft. vinesprend, a weight of 350 kg ( 550 Ibs ) and a speed of 400 n.p.h. See CM-OUT-8w85, AroId to eisenhower, 17 Sep 43, and C.Im-9301, isenhower to AG:iAF, II Sen 43, in AFsito.
54. Western Laval Task Force, po. 18-30; Iq. IAAT, Opal, and Intel. Sums
 43-44; Hq. Mimir, Operation Avalanche; Current Reports froin Overseas

 ACHAR, 12 Sep 43 ; EAF Hed Peyidy 5\%. 5.
55. Domandant, Usi: 12 Lov 43, Inc1. "B."
56. MYote of a leating Hela at the Adrairalty on SOth October 1945 to Concider the Lessons Learnt fron the Kaval Sir Operations in. AVALACHH Air linistry deemy Isum Ho. 200, 20 Hov 43.
57. Ha. AhT, lonthly Operations Julletin io. 6, Sep 43; Bestom Ilavel Casiz ごorce, pp. 20, 25.
58. Ho. XII ABO, Amp. Vo. 1, Adninistrative Order No. 2, 25 AuE 43, in File III-A, Feel 39, file 63, What; Curreat Feports from Cverseas 10. 29, British "ur Office, 11 Narch 44; Eistory of the Original XII Lir Force Service Comand, pp. $150-191$, and 157, note.
59. The ingineers received some assintance from the ground echelon of the S3d Fignter Grow phich had cone ashore on the 10th. See unit nistory, 33d Figenter Go, Sep 43.
60. History of the Original XII Kix Eorce Service Comand, pu. 146-196; Durrent Eeports fron Overseas 10. 29, 3ritish War Office; mix, $6 \in$ XII ASC (Adv) to 27 th 3orib Gp ot al, 0800 hours, 11 Sen 43 , in Onorations (Sp), Lessagen (Part III), 12th Zightor :ing (Prov).
 Operations Bulletin Mo. 7, Oct 43 .
 SFaval That Force, p. 30; inilir, Oporation ival neine.
61. See, narticularly, Mq. ciAm, Bonthly Operations Sulletin to. 7.
 He. Map, Opnl, and Intel. Sums IIos. 202-204, 10-12 Sep 43; XiPEu. Detailed Interprotation Seport Ho. D. $3,25,17$ Gep 45; Eq. III Lomor Comand, HGalerno Coorationsl; Ha. Massic, Intops Suns Mos. 50-51, 10-11 3ep 43; Hq. IMTAF, Int/Opeums Los. 153-154, 10-11 Sen 43.
62. Ha. MiAn, Opnl. and Intel. Suns tos. 202-204, 10-12 Sep 43.
63. Inta.
64. Tbid.
 10-12 5cp 43.
 Sep 43; He. MuF, Opnl. and Intel, Suas Ios. 20:2-204, 10-12 Sep 43.

ATsH-15, Hoton, Ohan. III
72. C:IMT-7325, C-in-C [Biscnhower] to AGwR for UUS, 9 Sen 43; iestern Taval Tasir Forse, p. 5; Rat "ed Reviey to. 5.
73. Recauso on the presence of Geralan artillery in the hills Dac: of the city of Salermo the port wes open only at intervels until D plus l?. See Ventern Laval Wask Force, p. 163.


75. History of the Original XII AFsis unit histories, e7th FifhtorBomber Go and UBd Ziehter Go, Sen 43; Fifth Arwy History, Vol. I, pp. $37-40$.
76. Fifth Army Eistory, Vol. I, Dp. 37-40.
77. On the 1.1 th the situr.tion ras so serious that General Olaric was maring preparations for abandonine either the northern or the southern sector and concentrating VI and 10 Corps in one area. See iestern T"avel Tast Eorce, p. 37.
78. Western Haval Task Force, pp. 3, 36, 39-A1, 43, 331m232.
79. IDid., p. 231. See also ibid., p. 46; Ha. Hán, Montiny Operations


 Led Pexieil IFos. 5 and 6.
81. Inid.
 Avalanche.
 in Cperations (Sn), Lessaces (Pt. IIt), lath zighter iing (Prov); WK, Col. Iyle, 00 LSth Fichter "ing (Prov) to Gen Loolitile, 11 Sep 43, i0id.

85. Western tieval thas Force, pp. 32, 106-1y7; Gurrent Denorts from Overgens 20. 29, 3ritish "er Office, 11 larch 44; gignols Hot. of Airohibious Opns. in the Nled from July to sep 43, 22 Oet 43 ; Eas Hed Eexion "to. 5; Hq. HAAZ, lonthly Operations Bulletin \%o. 7; Air
顽senhower, 26 Se 43 ; unit history, $33 d$ Eighter Gn , Ser 43.
86. Air linnatry : Oekly Isum Ho. z2U.
87. Signals Fot. on Ampibious Opns. in the lled. from July to Sen 43; "Alr Support Control Arrengenents for Operation 'Avalanche, " 25 Jan 4.
88. Hg. TAR , Honthly Operations Eulletin Ho. 7.
89. Loid.; Ha, AGD, Observers Jotes on the Italian Campaign, Durine the Feriod 25 Aurust to 7 October 1963, incl., 5 Dec 43, in Ase 370.22-9.
 This', Opnl. and Intel. Sung Hos. 204-205, $12-13$ Sep 43 ; Ha. ISisin, Intops Swns log. 52-5S, 12-13 Sep 43 ; NAFEw Detailed Interoretation
 Operations."

Y1. The origimal GIAin I, propared on the 12th, mas set up to drop a combat tenm in the Copua aroa. It was conceled on the 18 th, due to changes in tine tactical situction.
92. For the course followed, see man, p. 137.

Y3. Hq. SIL Sroop Carrier Comani (Prov), A Eeport of XII To Activities, Including the Italian Cemaisn; Outiline History, 51 st froop Carrier Ming, It Aug-30 oet 43 ; Outiine History, 5ed Froon Garrier Mine, Sen 43 ; Eeports by Operationel Fesearcin Sec. Hq. Liz Lidale Enst, Hi, Nediterramean Air Operations, 1943; Ha. NLA', Monthis Operations Bulletin 10. 7, 0ct 43 .
y4. IMid.
y5. Outline E1story, 52st 50.1, 17 Aug-30 Sep 43; Outline History, 52d 10., Sep 43.
46. Iinutes, COS, 190 th Leeting, 24 Sen 43 . Jariy in Trovember the ass announced that the lat British Airoome Division (less one brigade) and the 8 ad U. S. Airborne Division (less one airvorne artillery division) worla be mored from liso io UA for use in OVFtwom. whe transíer would tate place as lato as possiole in order to take care of any dovelopment in the Italion compaign which might require airnorne onerations, see dinuti-1375, cos to sisenhower, 4 Nov 43.
97. History, 14th Fighter Gp, Sep 43.
48. Unit history, 310th Domio Gy, Sep 43.
99. For dotails of the transfer of these and other units from the ainth to the Fwelftin, see various cebles fron 3 senhoter exd spatz to


ANHit-15, rotos, chen, III

AGFiR during Septonbor 1943, and see particularly CITHI-20612, Speatz to AGME, si ned inconover, 29 Sep 45.
100. Baf Led Revier: Fo. 5; Eq. NaAP, Cpnl. and Intel. Suns Tos, 206-507, 14-15 Sep 43.
101. OX-IF-1276\%, Spaata to AGHAR, signed Eisenhover, 16 Sep 43.
102. Hq, 12th AF, Operotione and Statistics of Twelfth Air Force


 HPFiw, Detalled Interpretation Report Fo. D. S. 25, 17 Sep 48; He. ZII Onber Gomand, "Salerno Operations"; Ci-Ir-11726, C-in-G


103. Hq. lath AF, Operation and Statistics of Twelfth hir Force (Supple-
 [Jidenhover] to AGHR for OSS, 14 Sep 43; 1tr., Spaats to Irnold, 2l Ses 43 , in An 370.2-9.
104. Altnough inAF's bombince of the enesy in the salient was of grect walue it probebly would have been even more valunble had tinere not been an obsence of adequate trainink in mutual air-ground icentification and visual signals wifch prevented the best use of close-contect air support. The Gf of TI Dorps found it necessery to designste $a$ Domonafety line vell begond the troops in contact during the rost critical part of the operation. See Itr., CGAís to des 43, end lst ind, in AAG $888 . \mathrm{m}$.
105. HiPER, Detailed Interoretation Feport 10. D. S. 25, 17 Sep 43;

 Reviey 15o. 5.

10ㅇ. 1tr., Speatz to imold, 21 sep 43, in mich s $70.2-5$.

109. Eistory, leth Eomb Gp (1), Tec 43.


 Setween 21 Senterber and 1 Oetober the planes filew 191 sorties, Gropod 406.6 tons of bombs, clained 50 enem aircraft destrored,
and lost 11 nlanes. On 1 October plenes of the tiree grours participated in a raid against ifiener Moustadt (1tr., Jeker to Arnold, 1 Cot 43 , in w-III-E-2, AyAle), after which the froups returned to the W, arriving there on 4 October. See unlt histories of 44th, 93 d and 380th Bomio Cps.
111. Cu-Lix-2097A, Eisenhover to Marshall, 14 Sep 43.
112. Ltr., Yaj. Gon. J. H. Noolittle, XII Bomber Command to laj. Gen. B. II. Giles, $\mathrm{O} / \mathrm{AS}, 19 \mathrm{Sep} 43$, in AhG 312-1-L.
115. Teno, Eric. Gen. H. A. Oraic, AO/AS, OUaE to Gen. Tpeston, 15 sen 53 , in AG 322-G.
114. Ci-0tr-10325, barshati to 3isenhover, 22 Seo 43 .
115. Ltr., Giles to Doolittlo, 9 Oet A3, in ABG 312-1-I.
116. Ha, TLAP, Opmi. and Intel. Suns Tos. $201-207, y-15$ Sen 43; Kg.

117. Lbjd.
118. TOLC.
219. ODservers Zotes on the Itnlian Cermaign, Durtigs the Fertod 25 Nust to 7 Octover 1943 incl.
 indur , Air Intel. Heerivy Sums Mos. $43-44$.
121. Hq. 13th 2 , Operations and Statistics of 2 welfth :ir Yorce (Suopleneat); Hq. Mhat, Opnl. and Intol. Suns lios. 201-508, 12-16 Sen 43; Itr., Enaetz to Arnold, 21 Sen 43 , in Ne $370.2-5$.
122. Meno for Joint Tar Planners Con., from Col. Joe 工. Loutzenhoiser, ODN, 6 Jan 44, and nemo for $0 G$ XII Zombor Comand from Col. Feuben
 Arficlag" file; meno for Joint Ser Planners com., Fighter Cperations, in $1 P$-III-IM-10, APARI.
183. Ibic.
124. Ha. 18th AF, Onerations and Stctistica of Twelfth Air Force; Hq. Mham, Opnl. and Intel. Sums Kos, 193-203, 1-16 Sen 43; Eq. DACAL,

125. Ha. 12th AT, Operatione and Etatistice of Gwelfth Air jorce (Supole-


 ltr.. Snate to arnold, 23 Sey 43 , in Nie 354-3.

ARFIS, Hotcs, Cnen. III
 $12-16$ Sep 43 .
 irproved their position in the ryrrhenion at aoout rianifiht on the 17th/ 18 th then 147 O . S. troops took over the islond of Ischia (off the Eay of heples), without oppocition. Possession of Iscinia, Capri, Fentotene, end Frocids islands geve the Allies control of all northern and southern aporoaches to Laples, and virtual control of the central apprach; in addition, the islnads served as observation poste andair worning stations.

1. Difth Army Histoxy, Vol. I, pp. 41-46; R4E Med Zevien Fo. 5; Ho.

2. Itr., Cen. Spaatz to Gen. Armold, 21 Sep 43 , in A4G 370.2-5; EaF Hed Eavieu Io. 5; Fq. Mhat, Opnl. and Intel. Sums 2Yos. 20e-212,
 A History of the 42 d Zomb ining.


3. Ha. lath in, Operations and statisties of Twelfth Air Torce (Supplement); Bat Hed Eeyiew hio. 5; Ha, hathi', Opnl. and Intel. Sung tios. 208-205, 16-17 Jep 45 ; Hq. Hastr, Intops sums 20. 56, 16 Sep 43; Testern Saval Tos' Zorce, pp. 20-i4.
4. Jestern Meval Task Porce, pp. 47-48; Hig. MAAB, Eir Intel. Jeciny Sun 20, 4.

 MASAF, Intops Sums lios. 5c-59, 10-10 Een 4.3.
 corplex. The approach of the Fighth firry also contrinuted.
 Hq. $\operatorname{Har}$, Opnl. and Intel. Sums ITos, 203-212, 16-20 Sep 43; Hc. Lutis. Intops Suas Ios. E6-59, 16-19 Seo 43.
5. Ea. 22th Ar, Oneretiono and Statistics of Tuelfth Air Porce (Supplement).

6. सq. Allied Dentrel ::ed. Sorce, "Air Support Control Arrangements for Operation 'ivalenche, 1125 Jan 44.
7. Signols fot. on Ampioious Cpne. in the lied from Juity to Ser 43.
8. Fiestern liaval Tast 5orce, pp. 47 fi.
9. Pat 2ed Revicy 5 2o. 5.

 Spaatz to irnold, 21 Sed 43, in AdG 370.2-T; Fa. lath AF, A History of the 42d Bono "ing; Ha, BGF, Ooservers liotes on the Italian Camaign, During the Period 25 , iug to 7 Oct 43 incl. in AAG $370.22-6$.
 i, inity, Opnl. and Intel. Sums Los. 212-217, 20-95 Sop 43; Hq. IASAI, Intops sums Lios. 90-94, 20-24 Ser 43.
10. IWR
11. Ibid.
12. Observers Loteg on the Italian Camaign, During the Period 25 Aug to 7 Oct 43 .
 LAAB, Onnl. and Intel. Suns Tos. 212-217, 20-2b Smp 45.

13. See p. 147. The three groups wich were gent down from UK were the 44th, 930 and 389th, each with aprocimtely 20 plenes. See CXITi12las, Devers to IKarghall, 10 Sop 45.
 UK, but stayed over until after 1 cotober to share in an atteck on the Wicnnt fighter factories. See Cli-III-180u7, ilisennover to Atrat. Hor Cus, 24 Sep 43 . Also, see $p .18 \%$ thin study.
14. On 4 OctoDer waile the Erench and Patriote were closing in on Bestia 35 3-25's mede a final attoct: on shipping in the harbor.

 Toc. 4E-46; Liq. Whir, Cpns. and Intel. Sums Hos. 214-218, 21-20 Sep 46 ; Eq, 24ERt, Intops Sums IOs. 61-6b, 21-25 Eep 43; Air Linistry "eetiy Isua \%O. EL5; Hietory, Jil Iigiter Comanci, June 431 Jon 44.
15. Ibic.; Eq. ldis, "Nare lostrum, pp. 20-27, 30.
16. See p. 121, this study.
17. For example, in the southern aroe "there were many red alerta durin the day [18ti] but fighters drove of 1 the enemy vefore the attecks coula Gevelon." See :.estern Haval Facl: Sorce , 3. A9.

G0. During this period fighter cover over the asseult areas nomelly was as follows: F-40's, continuous from jirst to last likht; Spitfires, sare as $\mathrm{P}-40^{\prime}$ s rith additional four planes at 25,000 feet to Intercent bombers cnrring rocket oombs; F-ze's and i-30's, over area to lizit of endurance after executing fithter-boriver missiong from sicily.
51. BEE Led Eeview 2.O. 5.
32. Western liaval Tosk Force, מp. EO-51, 55.
33. Thic. pp. 50-65, nassin; Pas Med Eevieni 20. 5.

35. Inid.


33. For ewamles, see unit histories of 14 th $3 i f$ ter 60 and 330 th Bomb




 was presently planned thet no alr force units would de installed on Sardinio untly later in the year. See difli-luobe, wisenhower to AgNa, E3 Sep 43.


 Nats, Opnl. and Intel. Sums Lios. 217-223, 25 Ser-1 Oct 43; Ha. Masas, Intops Suas Mos. 65-71, 25 Ser-1 Oct 43.
43. The 32tth IIGter Grow, vich whs in Torth ffrica, engaged in trainine new pilots. The 50th Zichter Souadron was another example; it remained in Sicils until Octover. Soe unit histomios, 39eth Eiehter Gp and 59th Fisghter Sq.

 Hisenhover, 86 Sen 43.
45. History of the oxixinal XII ARSG, m. 293-200.
46. IDid, Outline itistory, 51st ivi, 17 Auc-30 Gep 43.


SHESI-15, Motes, ohan. IV
47. Shese Sields continued to be used br Haf until after the fields around Honles and Canua wers available. Iven then, lontecorvino remined in rese for several months, primarily as a base from wich fighters operated to protect shipning and the port of Salerno.
43. Histore oi the Griginal XII AFSO, DP. ZOU-ZOZ.
49. Ibjin, mo. 201-202; "itr Diary, 12th Reathar Squadrom, Sec. II, Activation to 31 Dec s3.
 Onl. and Intel. Suws =os. 216-324, 24 Sep-2 Oct. 43.
51. The figures, covering the first 18 days of the Salerno operation, are froul linutes of a lilititary Conforence Eetween the Tisf, Great Srituin, and the USisi, Teherth, 29 ITov 43.
52. In arriving at totals for Septonber oporetions all available sources of inioration have been exaxined. The various sources nownere jibe, although in seneral they are proportionately closer together than in Host of the [daily] and perlod sumaries presented above. The sitwation is further complicatad by the fact that the sources are not alroys clear as to exuctuy wot and who are covered by their statistics. The best that can be dono, therefore, is to arrive at an approximation. In order to ta're care of this condition most of the tifures presented will be ounlified br the use of suci vords es "eonroximbely' or will be given in round nunoers. The writer freely admits that he cennot prove the accuracy of a sincie one of the figures which appear in the teat but he believes that each of thel is reasonably close to correct.
 Avelnehe; Eistory, SII rienter Comrand, June 1943mI Jan 44; deta sumpled by Statistical Control, Ha. An. Ha. 12th A" Operations of the Twelfth Lir Force, 6 Iov $42-3 \mathrm{May} 45$. For a breakdown of 0 tidis norties (and other activities) by tipes of glones see Annex lio. A.
54. Hg. Willap, Oneration Avalnohe.
65. Lintor: of 2 II Iiftter Comand, Juns 43-1 Jan 4t. Units of Tai fleu 1,877 sorties and destroyed 22 enemy minnes inile losint 3 . See Status Feport on Erench fir Iorces for : onth of $3 e \ni t e n d e r ~ 1943, ~ E q . ~$ 12th 53 , 0et $43, \mathrm{x}-40273$, in $\mathrm{A}-2 \mathrm{Lib}$.
56. Ho. l2th 17 , Operations and Statistics of Pweltth Air Forco; data also supplied by Statistical Gontrol. Hq. AAF.


58. Hq. HiAF, Lonthly Operations Sulletin $\because 0.6$.
59. Ibid. ; Ha. 12th AF, Cperations and Statistics of the Rvelfth Air Force; bistory of XIL Vighter Command, June 43-1 Jan 44.
60. Ho. 23th Ar, Gperations and Statistics of tie Flvelfth Air Force;

61. Ho. 18th AF, Overationg and Statistiss of Fweltill Air Foroe.
 2\%. 70, 30 Sep 45.
 and Statistics of Twalfth Air Torce; Hq. ilsSiri, Intops Sun Ho. 70, 30 Seo 43 ; Hq. MALiF, Qoeration Avalanche; Eq. 12th AT, Operations of the rvelftin Ain Jorce, 3 lov 43-8 lay 45.

G4. western Mnwn Fask Force, מp. 169-170.
65. IOtd., pp. 206-210. In this report 12 ships are listed os darared but the cause is not glven.
66. Hq. LANT, "Olose Sumort of the Eifth Arrer," in bisho.
67. Guoted in "estem Laval Nask Force, p. 3.

69. Woted in liestern Laval Nask Force, p. 3.
70. Eut the successes also accentuated the difierence of opinion as to the nature of futuro operations whicn existed between the U. S. Joint Chiers of Stafi and the British Chiefs. The Anericans never changed from their firm belief that OVNDORD must always have first priority. Jut the Sritish Erew nore insistent upon a concentration and extension of operatious in the Thediterronean. Ther wanted to dupe all the way to the Po Valleg; later, when the Italian carraign socged dorn, the* vanted to initiate operations ageinst the Balkans and in the Aegcan, even at the emoense of both 0 difloni and the Italian compai,g. They went so fiar as to try to stop the movement of seven divisions froa the lediterranean to U., and to get ceneral 3 senhower to conduct ogerations in the eastern Iediterroneon. The U. 3. Joint Chiets of Staft consistently opposed these onti-OVinuofl ideas, und uith enough success that OV, ifote was never removed srom its first mriority nor seriously jeonardized. See verious linutes of Veetines of USS anu JOS, wux thru Dec 43.

Chanter 7

1. For on idca of the linitations imosed on diais during Octoner by the weather, see Hq. MiAi, Upnl. and Intel. Sums Hos. 233-253, I-37. Oct 43; Eq. Hhisin, Intops Fums Ios. 71-101, 1m31 Oet 43; unit nistories of 340 th Bomb Gp (if), 320th Bonb Gp (w), 319 th Bomb on (iv),
 ficures will serve to illustrate the reduction in activities caused wy bed weather: 320th 3ompardment Group (i)--September, 488 sorties and 746 tons dropped.--October, 284 sorties and 400 tons dropoed; 310 th Eombarduent Grow (: M)-weptember, 824 sortlea and 1,00\% tons dropped-Octover, 428 sorties and 496 tons dropped. See unit histories for Sex and Oct 43 , 320th and 3l0th Zomb Gps (ii).

2. RaE Yed Eefien 1\%. 5; Mistory, 32lst Bomb Gp (1.), Oct 45 ; Marrative, 14th Fighter Gp, oot 43 ; alatory, sluta Eoab Gp ifi), 0ct 43.
3. Liarrativo, Iath Fighter Go, Oct 43.
 Hq. IAAP, Opnl. and Intel, Sums Eos. 233-231, 1-9 Oct 43; Hq. Mishir, Intops Suas los. 71-78, 1-9 Oct 43. Good data on these and many other Octover missions may bo found in the Octover 1943 unit histories of the 12th, 310th, 319th, 350th, and 340th Bono Gos (N), the 4.th Eomo Gp (I), and the 14th, 79th, and 8ad Fighter Gps.
4. Ioid. Fhe figures include a number of small missions by $3-35^{1}$ s of FAF, mostlij pgainst road junctions. In several of these missions ved weatner over the tarcet forced the mediuns to return without nivinf dropped their bonbs.
5. Ibid. See also unit history of 7Eth Fienter Gフ, Oct 43 .
6. Tbin.
7. Hbid. ; Air linistry Vecily Isum jo. 22e.
8. Ibid.
II. Thid.; Hq. Dacis, Miene rostrua. :
9. Air Iinistry Heerly Isum Mo. 215.
10. Outline History of the Corrica Air Sub irea.
 NAM, Opnl. cad Intel. Suns 1\%os. 261-235, 9-13 0ct 43 ; Hq. Discis, Intops Surns hos, 79-82, 9-12 Cet 43.

11. Fifth Army History, Fol. II, pp. 1E-37.
12. The 319 th Bomb Go (II) consiciered its part in tie Alife raid as its nort successful aterion of the month, See unit history, 31stn Gomb G) (II), Cot 43 .
13. Rap led Texisy No. 5; Ha, What, Aix Intel. Teenty Gums Tos. 48-40; Ha. TiAT, OpnI. ind Intel. Sums Ios. 235-87, 13-15 0ct 43; Hq. Snsins, Intojs Sums 2os. $83-94,13-14$ Oet 43.
14. Near the end of the ronth one airfield in the Eeel was allotted for use of atreraft mownting opectal operstions in aid to guerilies in

 Ha, Tivis, Conl. and Intel. Suns ios. 267-245, 15-33 Oct 43; Eq.
 ryth and sed Eightor Gps, Cet 43.
 Mlied Forcos, 3 ect 43, P/1C9 (fimal) (corrected coped), in Operatione Fecord Boot, 140 , Feb-Eep 43 incl. Sce also Dini-3460,
 ATsio.
15. Bitr Ied Reviev To. 5; Eq. 12haf, Opnl. and Intol. Suns 2os. 2A5-3EA,

16. Ha. Wathi, wote on tho Boploment of Ractical Foniver Force, sifned ב. C. Eudleston, Lir Comodore, in sisio. Ageingt tergete which Fis vas not copiblo of attacing cifectively, and in the event of an crergency, sts would be used for onerations in the tretieal area. Ibic.
17. This was duc orinurily to mono dags oi good fluring uenther, espeaicily around the 210 n and 220.
18. Tre fietorian of the 420 Bome wing (3-26's) clainea that the wing , Mod the var in the exoerinentation waich was later to culminate in the introduction of a net philosonhy of railuay interdiction througin the cutting of bridees." See A Mistory of the 42d 3omid Wing.
19. For the movenent of mediuns and fighters to Itely see, for example, the Larinistrative IIstory of the Ewelfth Air Eorce, Pt. III, Vol. I, and unit historical material for Sentember and October of
 date on the moverent of the vinf units), 31st, 33d, 57th, and 8.ad Figheor Gos. All of the matorial is in fes. files.

The 321 st 50 mb from (11) vas the first nedium grow to be based on the mainland; the $3 \mathcal{G d}$ ms the first of the figiter grougs. -

The B-2EIg Gegan their move to Serannia late in Catober, most of the nove taking place in Wovember. See unit history, 319th Somb Gp (2F), Oct-Tov 43, and A Histoxy of tho 43d Bomb Fing.

It should je noted that during the month of Cetober a number of "hatir grown vere nonoperationel as fer as combat was concerned, veins in process of changing from one type of plane to another or havinc been prailed out of conbet for training. The need for additional treining usually cane from evicence that a troup was bombing ineccuratcly or flyine its formations bady or because of inacieovete tratining before leavine the $7 I$. In the Latter comection, for examle, ceneral Sanete noted theit nany crevs were being brought over by boat and air tronmort while their plones were flown over by ferm crevs; he felt thot Deceuse of the limited training received oy crews and their leak of lmovicdee of their particuler aircroft they should iorry over their oum nlenes es a means of acquirine adaitional training. For the above, see unit histories of the 324th and 306th Ziginter Gps and tho 17th Zomb Go, Oet 4Z; C.:TM...

26. CA-CUI-13045, Karchall to hisennover, 29 Oct 43. General Larshallig messege was based upon e momorandut: propared on 27 Cetober by General Kuter which ntated that the destruction of 11 brideges on $y$ major reilroads in northern Itale and 5 bridges on a line approxinately Pisa-incono would "starre" the Germans south of the
 Exic. Gen. I. S. Kutor, 27 Oct 43, Application of Air Eover in Italy,
 memorindur. on the subjoct of oridate bombing was nrenared for the President. See 工emo for the President, ipplicotion of fir Power in

27. As a preliminary to its bridce-swighing progrer rinat took efinal creck at $: / 71$ s on the 16 th when 36 E-25'n escorted by $34 E-3 s^{\prime}$ s powned the Aricona yards with 32 tons of Dombe.
28. Jor example, the 2d Jomb Group ( $5-17^{\prime}$ g) considered its attac: on the bridge southeast of Orviato as its thest job of precision borbincil durinc the nonth. See Outilne History, 2 Z Bomb Ep (H), Cot 43 .
29. Unit history, 340th Bomb Gp (i), Oct 43.
30. 'Ahr's light bombers and fighter-bombers had been oneratins fron Italian basce since late September and early Octolser. See, for exumple, the unit histories of the 47 th comb co ( 1 ) and the 27 th Flehter-Bomber Go, and Eg. That, Pablen of Organzation, 18/14-20 Tov 43, 去-ASE63, in A-2 Iib.
31. See Eistory of 47 th Bomb vins, 25 Web-i Iec 43.
32. Ifish controlled all railway traffic entering tulgria from Central hurone, exceyt for a sligit flow via تucharest; it also lay on the main line from Central wrope to Greece, via jelgrade.
33. Inis was the first attoc: on an flomian target by an Itolian-based

34. AO/ 25 , Intel. to Gen. Arnold, 1 Dec 43 , "Current Items of Air intellizence, " in AaG $557-\mathrm{q}$.
35. Jata on 1Mins strategic operations (and supolenentaxy operations

 Sums 10: 237-234, 15 Oct-1 hov 43; Eq. Whith , Intons Sins Zos. 65-101, 15-61 Oct 43; Sir "inistry ieedy Isums hos. 217-218.
36. Fq. Masy, Opnl. and InteI. San Mos. 245-254, 23 Oct-1 hov 43.
37. During the first two-tnirds of Octover the defense of norts in Italy
 nrovided doy and nicit defense of Hoples; (2) Last Coast, FAF \%o. 236 "ine defended Sari, Brindici, and Saranto by day and its Lo. 416 Squadron deferded then at nixith (See Tix, Coninghem [zwhis] to C-in-C [RAO/, 10 Oct 4 等, in AFsito.) About the 20th, Goastal toa's oror from the 64th wine the protection of all shore instelle. tions south and east of Cammelle Foint (Korrento Yeninsula). See $\mathrm{T} \pi$, dg XII ASG to COMADAT, 20 Cet 43 , in 2 SEO.
 Hiq. 1istr, Oonl. and Intel. Sume Hos. 237-254, 15 Det-1 Yov 43; Ha.
 Isums 之os. 217-73.8; "are lostrum," p. 6.
69. See the ruit historites of various jowbardnent and ficoter groups for Oct $\leq 3$.
0. For example, tine $3 B d$ Gigater Group had no encounters auring the month but lost three plenes to Lifire wile escortine and bombing; the tuCh Bombcrdment Groun (1i) hao 17 of 24 planes damacea oy that over Canua on the Ath; and other unitsu-notedly the 47 th fombardment Group ( L ) and the 310 ta Bomivardment Grow (N)-moted in their unit mistories the frequency and severtity of the German fitire. See wit histories of these and other $1 z \mathrm{ch}$ AF units for Oct 43.
41. Lata is based on information fron the followins sources: Statistical Control, Hq. AAF; Eq. IZth AF, Operations of the ftrelttin Air Iorce,
 Donthly Operctions sulletin Yo. 9, Dec 43; history, AIL Fighter Commend. 1 June 4s-1 Jon 4a; "rare lostrum, "pp. 6, 10.

42. History of the 52d Troop Oarrier rins, Oct 43.
43. Historical Dati, Neditorrtnecn Air Trcnoort Service, 25 May $43-$ 31 1ay 44.

1. Elith irny History, Vol. II, op. 39m59, Vol. III, pp. 7a47.
2. For the creation and activities of 2 h gineer Comard, see p. 250, this study.
3. XIL AFtiG ves affected principally through the loss of its old II. air Service area Comand ( Ep ) to the lifteenth Air force on 3 Decemoer, then II Asill becme XV hiso. See History of the Original

4. At tho Dasablanca Concerence (January 1943) the -ifath Air Torce'g program of daylifgt bombing had been endorsed by the oos and the FOLivbLuTH offensive acainst Germen industry hed been recogniend as
 was formalized into the Comined Oomber offensive, ana specilic
 Domend. Un to the fall of $14 L 3$ thene two elements hed carried the 080, for the heevies of the 「welfth , ad Winth sir Sorces were operoting ageinst enemy airficlds ard comonicatione-uith a Eew excentions such as the rloesti roid of 1 dugue 1063 .

5. Sceting of JUS vith Frectient Eooscvelt and Secretar: Stirson. 10 Aug 43.
 JCS froa CG 215 , Fo Assure the sost intective Exploftation of the Comined Dozioer Offenaive, 9 Oct 43.
6. 0:-15:-14271, Hisonlower to Larshall, 19 Sep $\leq 3$.
7. As Bric. Gen. C. EV Sorn put it: "The besic reason for the creation of the Fifteentin Air Force vas to give the TS a atriling force ogainst strategic targetsm-the inaustrial, economic and comonicetions systems of Germani so thit we coula strilise both from beses in the UF and Italy." See Intervied with Brite Gen. C. F. Bom, Ac/S, A-3,

8. JOS 524, 9 Oct 43.
 on the Romation of the Fifteenth in Force, ${ }^{\text {I }}$ in personal file of Lt. Col. Jomes Lerton, Hc. $A P$ (cited horoinofter as "Fornation of the 15th AFil. The ficure "13" should have becn H1E," as a total of 21 crouns whs mroosed.


## THIS PAGE Declassified IAW E012958

12. Itr., Lay. Gen. I. H. Gwards to It. Gen. Ira O. Ae'er, no date, quoted in "Sometion of 1Sth is"."
 (incl. to ltr., ATR iorman Zottomey to It. Gen. Ira o. fier), 19 Oct 43, quoted in momntion of the 15th A.

13. There vas some difference of opinion on the question of Fogic's adyintage in number of opertional dors. A poper, "Whe wectuer Factor In Lombing Gornay Irom Iritish Jases as Compored uith tiont of Italinn Bases," (15th A5 file, ATAFF, Buropean Br.) stated that onle a few more operational days per monil cond be expected br heavies operetins from Itoly, brat tient base condibions there (aucinco of fog, for examble) vould de better than in tr.
 of immold, 12 Oct 43 , in Anseo.
14. JOS 525/1, 16004 43.
15. Ondounses3, Spatz to isonhover, 1400643.
16. Innuos, ous, lodin leeting, 22 Oct 43.
17. C.nOUL-gg3A, cJS to $3 i$ sonhover, 22 Oct 43.
 It. Gem. Ira 0. Fizer, 24 Oct 43), quoted in Formation of the 15th A.".
 ©5 Cet 43, nuoted in Jomation or the 15th 27.4


18. Itr., AN: Arthur 7. Yaris to Saj. Den. Ira O. Ja'er, quoted in "Ior.ation of the 18th AR."
 Iistory of 15th iry, Vol. II.
19. Minnten, ous, 125th Zeeting, 29 Oct 43.




 43, in ABDO .
20. Ibin.
21. cincti-14203, amold to insenhower for Snate, 31 0et 43.
 detivation was por G.0. No. 121, Hg. hiduUs, 1 Hov 63 and G.O. Ho. 82, Hig. 18th AF, 1 Hov 43.
 5 Dec 43.
22. History of 1Eth AF, ToL, I"
23. Intã.
24. Ibid.

25. Hietor: of 15 th 5 , Vol. I.

 2uropean 3x.
26. Thesa figures were considorably aoove the everacte heavy bomber offort wich had been recorded fron sl Auguat to $\$ 0$ Tovember 1943. Thring that nexiod the averaco sortie rato por month per picme in the thonter was 4. 8 ; the average sortie rate ner ronth per nlene ready for combat ws 8.7, and the nortic rate per nonth per ored ins 6.1. See Stritisticel Control Ienort, 30 IVoy 43 , in 15 th AT file, IEIT, wronean $B r$.
 General Srantz concurred on $E$ December 1943 in Ist ind. to above.
 informed lai. Gen. II. F. Fulalng (tinen ca or the :itteenth) that present blans vere to build wh the heavy pomper wits of tho bifteonth to 96 crove ner froun tat the earlient nructicaiole datel; that br Februngy the replacenent flow of heevy tomber crews wuld be 3 ?." and of figenter crevs 20 ; ; and that the Jwelth rad rifteenth now had first triority on riller and reviacement porsonnel for ground force units. Rase rotation rato of one-haly per cent, hovever, could


27. History of IEth AT, Vol. 2.
28. Ran, $M 0 / \lambda \mathrm{s}, \mathrm{Jlane}$ to Sec/AS, 13 Oct 43, and Itr., Imold to Doker, 25 Cet 43, in ASG 312-1-I.

It is interesting to note that about tris time General spante cane forvard with an idea which rould have sned the Duild-uy. He provosed to convert his three $3-26$ groupg to $3-17^{\prime t}$ and to change four srowns of B-35's and one of A-20's to A-361r. Fhese chenges would have elintnated the mediuns, and made the iffteenth ourol:g a heave bombaroment air force and the Frelith esseatially a closesupnart air force. The sugsoction vas disnonroved by A0/ac, Flans becanze the trancier of one meditu group and two fighter-bonber crouns frow Lorth fiflica to Chira was alrecay proposed and becuuse three Erouns of P-47*s were acheduled to be shifted from lifo to Ue. See remo for Srig. Gen. O. P. Tofland from Col. R. H. Kellë, Chief, Allocations Br., 18 oct 43, in ALG 322 m .
46. Itr., Col. H. P. Dellinger, Chiet, Supnly and lainterance 3 r.,

 see also Cu-ITM-15093, Misters to (7), 21 Aug 43 (naraphrase), in intip, suropean 5r.
48. See unit histories of the sevorn frowes.
49. BPIII-F-3 (Nod.), ADiv. Fiv date or other infomation is on the docurent.
50. Fis, Col. ․ S. Yebzel, Chief, Military Personuel Div, to Ac/As, tDCR, 6 hov 43 , in Aac 322-1.


53. History of 15 th At, Tol. I. The wosth iing never beence operational, its persomol stagings on D/S at He. Fifteenth itr Force.
53. History of 15 th Ar , Vol. I; interviev vith Laj. Con: Vathar $\overline{\mathrm{F}}$. Fuinine, 5 June 4, in History of 25th is, Vol. II; Ci.UUTM-10117, Giles to aruold, 24 Inov 45.


 in inisfu.
 Gol. J. I. Loutzenheiser, CED to Gen. Craig, AO/AT, Flans, 8 Iec 43 ,


LIFEE-15, 2iotog, OLCz. VI


57. Iemo, Col. J. I. Ioutzenheiser, Oy to Gen. Graig, AC/AS, Plans, 8 Dec 43 , in "
58. History of 15th ir, Vol. I.
59. Ibid.; Mistory of tio Original XII ATw; G.0. Tos. 1 and 2, Hq. AAT/I:TO, 1-2 Jen 4.
60. History of 15th AF, Fol. III. 'It shoula de noted that the build-ug of the air forces in 1 tho and of the ground troons necessary to mintain them was at the expenge of the rifth and bighth irmioe. See Kinutes of :ilitary Gonference Metwen the UBA, Great 2ritain and the Uois, fenern, 22 fov 23.
61. Higtory of 15th 15 , Vol. I. The tranzers were per G. O. ino. E4,
 cited in Elstor; of 15th LE $^{2}$, Vol. I. See also unit histore", 47th Somio ine, 25 Seopl Dec 43.
62. The welrth's aphinistrative control extended not oniy to its own units out to thoso of the Tifteenth. Control over the letter was teminated on 21 Lecemoer 1943.
63. In Februtry 1944, purguant to orders from Cos, tho 5Ed Froop Carrier iing tos transferred to TiO. This wes done as a part of the buila-ip to meet the requireaents for oriziok . Soe ISnutes, JUs, 11sth ? Seet-
 Administrative lifistory, Pt. I.
64. Orgmi mationg chartg, Thit ( 6 yov 43) and 13th ar (31 oct and 21 Iov 43); 12th as Adninistrative Eistory, Pt. I.
65. For the operations of the Eifteenth during - "ovemuer and Decemone, see p. 855 等, this study.
06. $\cos 317 / 3,540743$.

68. IDLD.

 18 \%ov 43 , in sumo.

Sifrelis, yotus, than. TI

 what Irom one whicin Genorel Spantz had sont to Generul srnold on the 10th, and wich gave liniz's main oujectives in the following order: to support the amy in the Itelian camesm by close surport and interruntion of lines of cormunication; to contrinate to Pommsina to weaten the Geruen position in the lalkans nuu the legear. See

71. Ristory of 1bth AR Vol. In.

 to aGitas for armoló, 10 Yov 43.
74. Seo interview, Col. C. A. Youns, AC/S, A-2, 1Eth AT, 27 , Tay AA, in History of 15th 17 , Vol. II.
76. This use of zinits heavies jad also peen topical of onerntions durinf, the funisian and sicilian cetroigac. In addition, they hed also begn used for close sujport, as at Kacsering and Salerno.




79. सietorg of M, Win, Dec $43-1$ Sep 44.
50. Iołd.; 15th AS Historicol Gumars, Zirst Year of Onerntions, l iov 44.
di. History of INL, Dec 43-1 Fop 44.

63. History of the 15th Ar, VoI. II; see also Oinn-r 340 , Spaatz sifned is senhower to AGMin lor Amold, 10 Yov 43.
34. History of the 1Eth sin , Vol. 11 .
85. AO/AS, Intel. to Gen. Arnold, "Jurrent Items of bir Intelligence, ${ }^{\circ}$ 11 Oot 43, in sis $357-0$.
86. A0/A3. Intel., "Oil Insbellations ithin Sonbinc; Panse of Italian
 file.
87. Sec also Report of Comittee of Onerations Annysts, 8 Iarch 43.


Anhu-15, Hotes, chap, TI
86. History of Mini, ل

90. OLOUN-56J1, Giles for smold, 22 lov 43.
91. For the oreation of LLAT', see Oham. TIII.
92. Inta on oersonnel and monoar of aircraft sumpied by Statistical Control, He. Lan'
93. Itr., Craif for Giles to Spanta, 19 lov 43 , in AiC 312-1-2.

YA. AB": Policer files, l2th AF, Vol. Y.
 also $A$, Ro. 2) ; "iesily Fenort of Status of dircratt ind sonoat orevs, LAx.
 period Fronch nilots vere being trained in the rinted states at the rate of 50 per month and dunnors at the rate of 20 ; the reccived an grerace of 100 hours of training. Sec 0inOUS-7255, smold to Smata, 18 aug 43 , in A5BO.

 to 09 12th $A 5,8$ Oct 43, in LAG B12.1; Division Digest, NAin, 13 Sep 43 ; interview, Dol. O. A. Youne, $A 0 / 5, A-2,15 t h$ ir, 27 yoy 44, in History of lSth AT, Vol. II; unit histories, bleth sa and. Sroth Somo Co (H), Yov, Dec 43.
y7. Hg. Lat to OG javF, Operations on tae Italisin leinlend, in Ophs.

48. Sor details of the movement see various unit histories, I3ta and lfth AF's, Jov-Lec 43. See, especially, histories of tae 3d, luta, sfth and 376 th 30 ll Cps. The latter vas the first heavy group to. move to Italy.
 buropen 3r.; Ci:-1n-18116, تigenhover to Abiath, 28 Lec 43.
 on hiriromes file, Aster, Zuropean 3r.; Srig. Gen. D. A. Davidson to Lt. Gen. F. E. Yorgan, Leveloment of Airfields in Corsica,
 Col. J. I. Ioutzenhoiner, OPD for Gen. Kater, 9 ;or $A B$, in Mavailnbility of Arfielce" file, inher, Jurovean Er, juistory of the Original XII ADNO, ro. 204-305; A History od tnp 43 A Romb Yine;



 Engineers in the Eediterrancon Camaigns, 20 Jon 45 ; Conamd History, XII Air Force Zagineer Commend (Frov), Activation to I Jcn 4.
103. Tbid. ; memo for Gen. Futer from Jol. Toe L. Loutpenheiser, OFD, y Yov 43, in Myeinailite of firfieles" file, Aim, Bropeen sr.; He. ATSG/:iOO, The Enaline nad Consumtion of Aviation Gasoline in the Lediterrancen Thecter of Coartions, 3 Sov $42-1$ July Ah, T. 3.



 tubline Eistory of the Cornica Hir Eub-irea; Hg. LiFSO/XTO, distory of the Original XII .SNE; Zrig. Cen. D. A. Devidson to Lt. Gen.


 fielast file, NHE*, Haronen Pr.


105. The Cutline History of Corsica Air zub-irca; Hq, Larco/aro, history of the Criginal AII iney, 万. DOB fy.
106. Hg. ATSO/:50, Histombof tho Originol XII ASw, p. 305 ff ; Hq.

 Theater," 16 Sop 43, in "Italian inses ior Strateqic jir Forcel

108. General insonover said at the ond of Joveraver that rixis mosed in Italy wis trice as efiective as il it had romined in Iunisia, Seo linutes, CUS, 151 gt Meoting (SMmair), 25 Liov 43.
 "0. 40.
110. Tor the affect o: the veather on Dovebber and Decelber oreratione, see Eq. HAAF Conl, and Inte2. Suns and unit aistorites of the 17th, 08 th, 319 th, and 30 th 30 mb Gps . ictually, the venther did not prove to be apreciobly vorse then the AF's henther fivision had preaicted it nould be, innofer ac tectical onerotiong vere concembd.


According to the Iivision's estimate Dis's operating dave from 15 Cetober througin 31 lecember would be as follors:

1. Foctia area (enst of the imennines)-acood-m days; Fossible, with restrictions- 37 deyr; and not nossiole-m daws.
2. Nomles Area (vent of the Anenines)--Cood--14 dnes; possible, vith restrictions--33 inva; and not rosstble- 32 daye.
 Italion Sheater, 15 Octoiocr 194s-1 Jamury 1u44," in "Fenort on Aruromes" file, Azins, Zuropean $3 x$. As brourht out inter in tinic
 it vas Sir, for more thun ar, when surfered fron the weather.
3. Jectmanis noar the end of Cetober, all Bomber Gomand had set un a full training procram for all its unite. The progrivi ranced ail the way from bonvinc: practico to instructions in ditchinc proceuve. Gee Omerction: Lemo 10. 3-1, kq. XII Somber Commad, S7 Oct 43, in winv. it the same tive severcl infinter roups begin foinc; throufh the 30 m
 P-47's. See unit historir, S25th zighter Ge, Fov-Dec 43 .

4. Tasic data for the operations of in ond Sif durinf: Zovenber cone


 :ov 45 ; Eistory of the 15 th $2 I^{T}$, Vol. II. AIl other sources oi dete and information are oroperly notec in footnotes.
 A 2320.
5. History of 15tin at Vol, IIT.
6. To Eive only o sinfle illustration: the 3lvil vowiordaent frow (1) planned ld nisgions during Yovember; 10 or these vere canceled and 3 roore rendered avortive yeovier. Deo unit hirtoxy, Slyth bomi Gp (: $!$ ), Lov 43.
7. History of 1Eth AT. Wol. It; intervion, Col. ©. A. Tounce, $20 / 5$,
 A-3, 15th $\Lambda^{T}$, 1014.

8. History of 1Eth A5, TOL. II.
9. Sinis was the first تiscion by the new Firteenth air Force. it too: plece durine the dw of l IYovenior. See Historical Sumnry, Zurst Icer of Cporationg, 15th in, I Tov 44.
10. Gee niso mero for Gen. Arnold from laj. Gon. 3. N. Giles, d/as, 15 ₹ov 43 , in $140385-\mathrm{D}$.
11. IInuten, JCS, 130 h : Veeting, 25 Mov 43.
12. Geman sin: lo-engine fighter production hed increased irom around $40 J$ per month in July 1442 to 100 por month in JWiy 1943. Uost of the increase cane from throe 10 - 709 comlexes at ienor Neustedt,
 neavies; 1ron fature bases around Tocgia all tiree would be tithin range. See Ho. Nhis, "Alr Power in the lediterrmenn, "Aon. 0 , pp. 2 m , in ins.
 15th AF, Vol. IT; unit hictory, ed 3omb G. (H), liov 43 .
13. Tbia.
14. Interviev, 2ris. Gen. 0. 3. $30 \mathrm{~m}, \mathrm{~A} / \mathrm{S}, 4-3,15 \mathrm{th} 1 \mathrm{~T}, 2$ June 44, in History of 16th an, Vol. II.
15. EAI Med Rcvicu \%o. 5.

16. Heno for Gen. Arnold from Lad. Gen. s. IV. Qiles, $8 / \alpha 5,15$ Hov $4 E$, in dik $586-1$.
17. Ninutes of Military Conferenco Setween the USi, Great mitain and the USsE, Feheran, 23 Not 43.
18. Ibia.
19. Sec, ecpociclizy, Mistory of 15th ir, Tol. In.
20. See unit histors, 319th 3omb Gp (it), Nov a3.
21. Flonee on tho return trin fron aiseions to northem Italy or southem Tranco frecuentl: reached Gardinie or Corrics iftil encines out, Gesoline low, or vith severe battie danege. On such occasions tho two islande were involuale. See, for exmple, unit listories, ad Domb Go (II), Lov-Fee 45 .


 13 Iov 45.
22. Seo also Air *inistry "eelay Isuns nom. 291-223; CULOUT-5996, Serton to It. Gol. :dedarthy for Arold, 15 nov 43.


23. History of l5th A", Tol. II. For further details sise ITSu Stuay ngroparada and Yertisan Suphy Operations of the iAi in the mapopen Fncaters."
 Hos. 219-2E3; Hictory, XII Sichter Domond, 1 June 43-1 Jen 4.
24. As has been notad previously the Gis bomber efiort in tie teditermanen uns not limited to oitacis on Italy rad twe central Xediterrmena; actualy, its Irrgest operations were apanst tie Fritish tho wero treins to hold the jerean iclunds of Ieros an camos.

25. Ibid. and lio. EA.



26. Sy the end of fovember tho incrose in dir-scn rescus operationsmade necessery by a din's groving activitios over tho adriatic, the decean, and the northwestorn "oditerramtan-ocared the Art to sond


27. Statistice for orenber are Dased or the following: Ka. + Ade,

 219-223; History of l5th iz, ToI. III; History, XII -ifater Comand, 1 June $43-1$ J.n 44 .


[7\%

28. Tae story on tectical and strateric onerations duriner Lecenber is
 Los. 56-59; Eq. JuThF, Int/0psums Ios. 235-266, 1-31 Iec 43 ; history of leth ity, Vol. II. Other sources of omerational dete. are nroperly listed in footnotes.
29. Ho. IAOAF, "hare Nostrun, 1 p. 14.
A. OVS 455,4 Dec 43. The incroased support to the tartisume also whe in Leening with css 357/3, 3 Hov S . Ior cetails of thege opera-
 of tho LAT in the :hropen Phenter.

 tione, 19 2ec 43, in ALG 0w. $500-1$.
30. "Bir itteces on nail and Zoci Dommaications," Zucferm n Feport; 28 Lec 43 , in AnsuO.
 44, in AiC 0C0.600-A.

8, The effect of the operations of tho ighth and Fixtecntiz Air Zorces aginst ballmoning plente vas sonerknt nullified ven Gemmen us able to obtain an inereased numbr of bourines irom sweden. See

9. Kistory of lytin ST, Yol. II.
10. In. Mhe, A-2 Sec., Sneciclintel. Fenort lo. C4, cited in Matory

21. Tbia.
12. The attcoles on the 14th cono inmediatel: after e ruid on Dari oy Garnam lone-ranse bonbers overatinf fron acrons the idriatic and rew have been for the purpose of restricting such sctirities oy the enowy in the inture.
 in rifetory of intir'.
 $\therefore \mathrm{F}_{12}=$



16. IDici.

 Zaronean ir.; "aro zosiriu, pp. s7-23.

30. "rove Tostrum," ฉ. 23.
 Suas Ios. 56-59.
 53-1 Ton 45.



25. Ior the mojor attecks, see avove, this study.

27. It is interesting: to note th $t$ in the period fron 22 Oetober 1945
 aroped for crory complete plodsage of an $\mathrm{I} / \mathrm{I}$, whoreas only 196 tons had to ve dromed for every uridee interlicted. See 0zin woror
 "Italy" fíle.



 of XIf Fighter domand, 1 fune $46-7$ Jon 44 .
29. Fic. intr, "Air Fover in the lediterxinean, "Amo. G, ph. 1-4, in ARSEO. According; to this cocunont, fron 6 Sentembor 1945 to 3 Lecember 1944 tho round forcos' cesurlty rate (filled, wounded, missing in notion-momet and nonconat) nverared $6.3 \%$ ner month oer 1,000 nen, weress the air iorces rate ras 7.65,
30. Ristory of XII inshter Gotmad, 1 June 43-1 Jon 4.


51. Thas unified comand, estsohished durinc Decenver but not onerative until Jonumrir 104, would bo mova is the United States Strate, ie Lir Forees in inuone (USMTH) and vould be under General Spants. Iromits deodaur rers in th it vould aireet and coordinate the
 wich meant thet the Fiftentin's nrinury mission voule be directed by Usintis and not by whe, although tho theater comandor could use the Fiftoonth in tho arent of an energency. Zecuase U3uind iid not becone operctive until hiter 1 Jtnuar $19{ }^{1} 2$ the story of 1 ts creation is not incinded in tinic stray.
52. Gua 35\%, 3 liov 4.
33. Ibis.
 in in 5 N
35. 2nc recomondetions vere cmbodicd in U0S 36?.
36. S:inutes, 003 231st Ioetinc.
37. Minutios, COS, I35th Seotini:, 5 Dec 45; dos 357/5, 5 Dec 43 .
33. $\operatorname{cose} 357 / 3, \mathrm{E}$ Dec 43 .


S1. OUS $867 / 5,5$ Doc A 4.
62. Sons poscioility and the renson wh no real contict ever develored are discussud in Tistary of lisin, Eee $43-1$ Seo $\leq E$, Tol. I.

S3. Ci-Cus-7nO3, innola to Devern for Eortal, 18 Iec 43.

45. Gi-Th-I21B1, Barer sirned levers to Aradid, 19 Dee 43, General Eapr furthor said the if the finsl decicion was for dencral Doolittle to twe the jghth ind General Ivinine the Ifteenthe then he wented Gemeral Zawrds as his administrative doputy, this wis the arraneament which uas ilinaily mode.
66. OiMMi-1e615, Devers to imold, BO lec AB.

 2LDec 43.
49. 0x-015-10338, Narsinell to Derers, 38 Dee 45.
 TOI. II.
51. 1eth AB Acministrative Eistors, ToI, I, Pt. III; C.f-Iri-1435y, Snantz
 23 Dec 43 , in $A 500$.
52. Hiatory of $\operatorname{HAS}$, Dec 43 ml Sen 44 , Yol. I. Another reason for not inmediately dinomaing lina vas that the varrant for general courtsmartial sor lorthoost africa vas currently in the rame of the Denuty
 jurisdiction had not besn issued. See 0n--Tm-326, Aov- Hg. Whisi, signed
 Font to Air linistry pt ald, 22 Dee 43, in Aisifu.

 31 Lec 42.

EA. Hintory of 415 , Vol. I; CRIM-6253, Spantz siged in senhower to Arnold, 9 Dec 43, in Aisillu. It should be noted that the nuwer of RSS combat mames actually assisned to combat units vas only about 1,000, the rect beine held in reserve. As General Doactz out it in this nossace, the Riz "with a sreater number of airrianes then :AT in the Theater has leas then hali AN strength in coraot unito. "

 chengeably and ind corininately for several ween after limp wos estoblished.
56. Hg. :iAM, "Air Pover in the Ifediterranean, "p. 1,
57. History of Min', Fol. I.
58. Ixcent that, on 3 Peceaber, II 4510 (b) vas oricicioliy cssicnod to

 transfer tas per G.0. Ho. 97, Ko. 12thin, 3 Joc 43.
 history, Vol. I, Pt. III.
60.- G.O. No. 1, He, AAT/LTO, 1 Jan As.
61. 13th AS ABministrative Iistory, It. I; Mistory of the Original XII
 cited in Hictor: of LLNT, 7ol. II.


MCAFTHEHA4

63. Per C.O. Lo. 5, Kq. : Lis, 51 Lec $<t$.



BIGOT "BARRACUDA" - SECRET
(Equals British MOST SECRET)
HEADQUAETERS NORTHNEST AFETCAN ATH FORCE

## OPBRATIONS INSTRUCTION ND. 1

## INFCRMATION

1. "BARRACUDA" is the code name for an operation to land a force in the NAPLES area, to seize the port of NAPLES and establish a firm bridgem head, under the following circumstances:
a. No serious German opposition is to be expected in the NAPLES area.
b. The conditions favoring the operation may arise quickly, and if advantage of these circumstances is to be taken, the period of time necessary to mount a fully-prepared assault will not be available.
2. An element of risk must therefore be accepted, and it has been decided that the necessary steps be taken immediately to enable the assault convoy to sail at seven days ${ }^{\text {n }}$ notice.
3. The operations will be undertaken by the American Fifth Army, and one division is being prepared so that it can sail from ORAN direct to NAPLES, assault loaded, on seven days ${ }^{1}$ notice. The $82 n d$ Airborne Division will be available to assist in the operations, up to the limit of the available troop carrier lift.
4. A brief outline of the assault plans will be issued in the near future. The assault convoy is now being brought to a state of readiness at ORAN, and it is estimated that it will be at seven days readiness from today.

## TASK OF THE ATR FORCES

5. The Allied Air Forces must be brought immediately to the necessary degree of readiness, and the appropriate administrative action must be taken to enable them to provide the fullest protection and support the operation. This must be done without reducing the efficiency of the Air Forces in current operations.
6. The tasks of the fillied Air Forces in Operation BARPACUDA are as follows:
a. To neutralize the enemy air forces, or reduce to the maximum extent possible their ability to intervene in the operations,
b. To provide protection for the assault convoys, the Port of NAPLDS, and the area occupied.

c. By the attack of communications, known concentrations, etc., to prevent any effective opposition by eneny forces in the NAPLES area and to prevent or retard the reinforcement of these forces by German forces Iocated in Northern and Southern ITALY.
d. To exploit initial success to the fullest extent to ensure the annihilation of any German forces South of the NAPLiES area, and if possible, the annihilation of any German forcos in the remainder of ITALY.

## PLAN OF AIR OPERATIONS

7. Should circumstances become favourable for the execution of Operation BARAACUDA, the main effort of the heavy and mediun bomber forces mill be switched to the attack of German Air Forces in the NAPLES area, and within effective range of the NAPLES area. Should the German land forces attempt to retire Into Northern Italy, every effort will be made to prevent or retard that retirement by attacks on communication focal points, on road columns and on concentrations.
8. Fighters, night fighters, and fighter-bombers must be flown into the NAPLES area as soon as airfields have been occupied and are ready for use. The situation may be such, ie., a rapid deterioration in the Gemman position in ITALY, that airfields can be occupied and defended by Airbome Troops with the active assistance of the Italians, in which case we must be prepared to fly in fighters and fighter-bombers, together with essential supplies, before the military forces have landed.

## PRTHTHTNARY ACTION TO BE TAKEN

9. The following action is to be taken forthwith to bring the Allied Air Forces to the necessary degree of readiness to undertake Operation EniRACUDA. The day on which the warning order is issued will be referred to throughout this Instruction as "X Day" (i.e., X Day is the day on which the Gpmanding General, Fifth U. S. Army, is instructed to embark and sail within seven days.)

## Tactical Air Force.

The 31.st Fighter Group is to be brought to the following degree of readiness:-
a. The Combat Echelon to be prepared to fly from SICILY to the NAPIFS area from $X$ plus 9.
b. The Air Echelon of the 31st Fighter Group to be at readiness to proceed to the NAPIFS area by air transport with the combat echelon, and with a three days ${ }^{\text {l }}$ level of technical supplies. The airfield from which they will proceed and the number of $0-47 \mathrm{~s}$ required to effect the move are to be signalled to this Headquarters.

The Ground Echelon of one squadron of the 31st Fighter Group is to be prepared to embark with its vehicles and equipment at PALERNO from X plus 7, taking a ten days' level of technical supplies for the Group. The remaining ground echelons to be prepared to embark at PALERUO on or before X plus 1500 D

## Fhivaty


d. The Service Group Forward Detachment now in SICIIY with the 3ist Fighter Group is to be prepared to proceed to PALERMO with vehicles and equipment to embark from $X$ pius 15 . It will be required to service both the 3lst Fighter Group and the 27th Fighter-bomber Group during the initial period (if both are sent to NAPIES). It should carry a ten dayst level of supplies for the A-36 Group and the Spitfire Group, and for one half P-51 Recce Squadron.
Disembarkation at NAPLES will be through the Port.
11. Eight R.A.F. Spitfire squadrons are to be nominated and brought to a state of readiness to fly into the NAPLES area from X plus 9. The servicing arrangements to be as follows:

ㅂ. One Servicing Commando to be selected, reduced in size, and prepared to proceed by air to NAPLES with the combat units. It should carry essential tools and light spares for four Spitfire squadrons for one week. The airfield from which it will proceed and the number of $0-47 \mathrm{~s}$ required to effect the move are to be signalled to this Headquarters. A second Sexvicing Comando is to be prepared to embark at PALEFWO from X plus 7. It should carry essential tools and light spares for four Splitfire squadrons for one week.
b. The "A" Parties of these squadrons are to be prepared to move to PALTRito for embarkation, together with their equipment and vehicles, from $X$ plus 15. They should carry a seven day level of technical supplies.
c. The "B" Parties of these squadrons are to be prepared to embark at PALERLKO from $X$ plus 18, and to carry a seven day level of technical supplies.
12. The 27th Fighter-Bomber Group is to be brought to the following degree of readiness:
a. The Combat Echelon to be prepared to fly from SICILY to the NAPLES area from X plus 9.
b. The Air Echelon of the 27th Fighter-bomber Group to be at readiness to proceed to the NAPLES area by air transport with the combat echelon, and with a three days: level of technical supplies. The airfield from which they will proceed and the number of $\mathrm{C}-47 \mathrm{~s}$ required to effect the move are to be signalled to this Headquarters.
c. The Ground Echeion of one squadron of the 27th Fighter-bomber Group is to be prepared to embark with its vehicles and equipment at PALERMO from $X$ plus 7, taking a ten days' level of technical supplies for the Group. The remaining Ground Echelons to be prepared to embark at PhLERMO from X plus 15.
Disembarkation at NAPLES will be through the port.
13. The Illth Recce Squadron is to be brought to the following degree of readiness:
a. Half the Combat Echelon to be prepared to fly from SICILY to the NAPISS area from $X$ plus 9.

b. Half the Air Echelon of the 11th Recce. Squadron to be at readiness to proceed to the NAPIES area by air transport with the combat echelon, and with a three dayst level of technical supplies. The airfield fran which they will proceed and the number of $\mathbf{c - 4 7 s}$ required to effect the move are to be signalled to this Headquarters.
c. Half the Ground Echelon of the 1lth Recce Squadron to be prepared to embark with its equipment and vehicles at palirivo from X plus 7, taking a ten days' level of technical supplies for the haif squadron.
Disembarkation at MAPLISS will be through the port.
14. No. 40 Tac/R Squadron is to be brought to the following degree of readiness:
2. Half the Combat Echelion to be prepared to fly from SICILY to the NAPIES area from X plus 9.
b. The "A" or "B" Party, or the essential personnel for the maintenance of the half squadron, to be prepared to embark with equipment and vehicles at PALERLE from $X$ plus 7.
15. Preparations are to be made to ensure that day and night fighter protection can be provided to the assault convoy between SICIIT and NAPLES, and in the MAPLES area, until such time as fighters are operating from the NAPIES airfields. The division of responsibility for this commitment, as between Coastal Air Force and Tactical Air Force, is to be arranged direct between the Headquarters of those Commands. Three Groups of P-38s will be made available to assist in this task. The airfields to be used for refuelling and rearming the P-38 Groups are to be notified to this Headquarters and Headquarters, Strategic Air Force, by sigal.
16. Arrangenents will be made to ship to PALERHO as many long-range tanks for P-38s and Spitfires ( 90 gallons) as necessary. Stocks of P-40 tanks in SICILY should prove sufficient to meet requirenents.
17. Be prepared to escort Troop Carrier aircraft on transportation flights and on day or night operations with Airborne Forces to the NAPLES area.
18. Nominate and alert two GCI/COLs and four Light Waming Sets, and prepare them to move to PALEMAO for embarkation by X plus 7. Alert the GOI/COL mounted in L.S.T. No. 305 to be prepared to proceed immediately to BIZEETA or PALEREMO, as required. Sailing instructions will follow. If considered necessary, alert additional Light Warning Sets to proceed to Palprim by X plus 10. Whether U.S. and/or faf light Warning sets are used will depend upon the nature of the Forward Fighter Control organization established in the NAPLES area.
19. Select and alert the necessary additional units to provide communications and fighter control in the NAPIES area, to proceed to PALERLLO by X plus 7. The Air Formation Signals unit for R.A.F. comnunications will proceed with the assult convoy loading at BIZERTA.
20. Select the officers to join the Headquarters Ship, to be flom back to Northwest AFRICA on receipt of the warning signal. Select and alert the Headquarters Staff to control operations in the MAPLES area. This staff to be ready to embark at Paikinio by X plus 7.


21. Prepare half the Combat Echelon of No. 600 Squadron, R.A.F., so that it can be brought to a state of readiness to proceed to the NAPLAS area from X plus 7. Prepare the minimum number of ground elements for the efficient operation of the half squadron, so that they can prom ceed by Troop Carrier aircraft from X plus 7. Notify this Headquarters by signal the airfield to be used for departure, and the number of C-473 required to meet this commitment.
22. It is not expected that it will be possible to despatch all the combat units enumerated above in the early stages, or that the Troop Carrier aircraft will be available to meet all the transportation requirements. The arrangements are intended to allow choice between fighters or fighter-bombers, and to cover the possibility of a situation which can be rapidly exploited.

## Service Command

23. Hake arrangements to load inmediately at OPAN, sufficient FOL, SAA, bornbs and other supplies to cover operations by the above forces at Intensive Effort for 14 days. Arrange follow-up shipments to keep the forces supplied at Intensive effort.
24. Make available for shipment at short notice:
a. A 14-days' pack-up for eight R.A.F. Spitfire squadrons, and half a Night Fighter (Beaufighter) squadron.
b. A tendays' level of technical supplies for one J.S. Fighter Group (Spitfires), and one Fighter-Bomber Group ( $\mathrm{f}-36 \mathrm{~s}$ ), and half a P-5l Recce Squadron.
Arrangements to be made to ship these supplies on an early convoy from Northwest AFRICA to NAPLES, Lake foliow-up arrangements to keep the forces supplied.
25. Arrange for one Guarternaster Truck Detachment to be Ioaded in the assault convoy. Detachnent to consist of 22 vehicles and 50 personnel.
26. Arrange to ship imediately to SICIIY as many Spitfire 90
gallon and $P-38$ long-range tanks as possible, up to the following totals:
30090 gallon Spitfire tanks.
250 P-38 tanks.
27. Prepere one company of Aviation Engineers for embarkation in the assault convoy, either in Northwest AFRTCA or PALERUO as convenient.

Troop Carrier Command
28. Be prepared to concentrate 311 available Troop Carrier aircraft by X plus 7, for airborne operations in the NAPLES area. Thereafter be prepared to despatch aircraft to SICIDI to transport Air Force units and equipment to the TAPLSS area.

## 216 Group, R.A.F.

29. Be prepared to concentrate 211 available aircraft at seven days' notice to proceed to SICIEY to transport Air Force units and equipment to the NAPLES area.

30. Be prepared to concentrate all heavy bomber effort on to airfields and communications in the NAPLES area as directed, and all medium bomber effort on to communication targets South of NAFIES. Prepare three P-38 Groups for despatch to SICILY by X plus 7 on call forward, to operate on an advanced landing ground basis under the operational control of the A.O.C., Tactical Air Force during the assault phase.

## Constal Air Force

31. Be prepared to escort convoys to PALBNLO and to cover them from PALERAO to the limit of effective range. The division of responsibility for this commitment as between Tactical Air Force and Coastal Air Force to be arranged direct between the Headquarters of those Comands. 32. Nominate and prepare for embarkation at BIZERTA within four doys of receipt of this instruction, one Port Balloon Detachment formed to establishment $\mathrm{MED} / 44$.
32. Be prepared to reinforce the Coastal Air Force unite in SICILY at six days ${ }^{\text {i }}$ notice to replace fighter units withdrawn by Tactical Air Force.
33. Make arrangements, in conjunction with H.Q., Tactical Air Force, to extend the Air/Sea Rescue organization to cover the area between SICIIY and NAPLES.

## General

35. Detailed examination of the requirements is proceeding and further instructions will be issued in the near future. In the meantime, action as outlinedabove is to proceed forthwith.
36. The Haming Order will consist of a signal "barracuda ALERTH. This will be followed immediately by further instruction and information. 37. Acknowiedge by *ignal the receipt of these instructions.

By command of Lieutenant General SPAATZ:

E. P. CURTIS, Brigadier General, Chief of Staff

## OFFICIAL:

/3/ T. J. Brogan
T. J. BROGAN

Colonel, $4 G D$,
Asst. Adjutant General




MRSORANDUW FOR: A.C. of S., G-3, Allied Force Headquarters

SUBJECT : Mission to ROME.

1. In compliance with verbal orders from AFHQ and the Fifteen Army Group, Brigadier General Maxwell D. Taylor and Colonel W. T. Gardiner, A.C., left Palemo for Rome at 0200 September 7 for the purpose of completing arrangements in Italy for the execution of Operation GIANT TiD. Transportation was by a. British P.T. boat to Ustica Island where the party was transferred to a waiting Italian corvette. Rear Admiral Maugeri, Chief of Naval Intelligence, received the American officers on board and remained with them until their arrival in Rome. The corvette put into Gaetast 1950 where the party was quickly put in a Navy sedan, taken to the outskirts of town and transferred to a Red Cross Ambulance. The trip up the Appian Whay to Rome was uneventful. Few German troops were seen and the visible defenses along the route were unimpressive. The party entered Rome just at nightfall and was taken to the Paiazzo Capm rara opposite the $\# \vec{W}$ Office (intersection of V. Firenze and V. 20 Sepm tembre) where accommodations had been prepared.
2. Colonel Salbi, Chief of Staff to General Carboni, the General's Aids, Lt. Lanza and Major Marchesi. received the officers. No conferences had been scheduled for that evening but, at the insistence of the Americans, interviews were hastily arranged with General Carboni, Commanding the Army Corps about Rome (concurrently Chief of Intelligence since August 20) and General Rossi, Deputy Chief of the Supreme General Staff. For reasons shown subsequently the interview with Rossi did not take place.

## 3. Interview with General Carboni.

General Carbomi arrived at 2130. He imnediately launched upon an expose of his views of the military situation in the Rome area. Since the fall of hassolini (he said), the Gemans had been bringing in men and supplies thru the Brenner Pass and also thru Resia and Tarvisio, with the result that their forces near Rome had greatly increased. There were now 12,000 Germans principally parachutists in the valley of

[^2]

the tiber who have heavy equipment including 100 pieces of artillery, principally $8 \delta \mathrm{~mm}$. The Panzer Grenadier Division had been raised to an effective strength of 24,000 men with 50 light and 150 heavy tanks. In the meantime the Germans had ceased to supply the Italians with gas and munitions so that their divisions were virtually immobilized and had only enough ammation for a few hours of combat. General Carboni's estimate of the situation was as follows:

If the Italians declare an armistice, the Germans will occupy Rome, and the Italians can do little to prevent it. The simultaneous arrival of $U$. S. airborne troops would only provoke the Germans to more drastic action. Furthermore the Italians would be unable to secure the airfifelds, cover the assembly and provide the desired logistical aid to the airborne troops. If it must be assumed that an Allied seaborne landing is impossible North of Rome, then the only hope of saving the capital is to avoid overt acts against the Germans and await the effect of the Allied attacks in the south. He stated that he knew that the Allied landings would be at Salerno, which was too far away to aid directly in the defence of Rome. He stated that General Roatta shared his views.
4. It was apparent to the American officers that regardless of the soundness of General Carboni's information and views, he displayed an alarming pessimism certain to affect his conduct of operations in connection with GIANT THD. General Taylor proposed that they request an immediate interview with Marshal Badoglio to permit General Carboni to present his recommendations and receive the decision of the Head of the State. The interview was requested and granted.
5. The delegation reached Marshal Badoglio's private villa at about midnight, where the household was awake as the result of an air alarm. General Carboni was received at once by the Marshal while the American officers wited in the antechamber. After about fifteen minutes they were admitted and greeted cordially by the liarshal. Throughout the ensuing interview he made frequent expressions of his friendship for the Allies and his desire to enter into effective cooperation.

## 6. Interyiey with Harshal Badoglio.

General Taylor explained the late visit, saying that General Carboni had raised questions so grave that the immediate decision of the Head of the Stiate was required, Was Marshal Badoglio in accord with General Carboni in considering an immediate armistice and the reception of airborne troops impossible of execution? The Marshal rem plied that he agreed with Carboni and repeated much the same arguments. General Taylor asked if he realized how deeply his government was committed by the agreements entered into by the Castellano mission. He replied that the situation had changed and that General Castellano had not known all the facts. The only result of an inmediate armistice

would be a German supported Fascist government in Rome, He was asked If he feared the possible occupation of Rome by the Germans more than the renewed attacks of the Allied Air Forces which would certainly come if he rejected the armistice. He answered with considerable emotion that he hoped the Allies would not attack their friends who were only awaiting the right moment to join forces. If any bombing is to be done let it be on the Northern rail centers serving the German troops,

In reply to the question as to how he expected the Allied Chiefs to react to these charges he expressed the hope that General Taylor would return and explain the situation. The latter declined to accept any responsibility for the Italian interpretation of the situation but offered to act as a messenger if so instructed by the Allied authorities. The urgent business was to send to Algiers a definite statement of the Italian views over Badoglio's own signature.
7. The Larshal accepted this proposal and drafted the message which is appended as Inclosure 1. General Taylor prepared another message at the same time (Inclosure 2) recomending the cancellation of GIANT TMO, and requesting instructions for hinself and Colonel Gardiner. The visitors withdrew and returned to the Palazzo Caprara where the two messages were turned over to General Carboni for transmission. .At 0800 the next morning, word was received of their reception in Algiers.
8. In order to present a clearer picture of the local situation, General Taylor with the concurrence of General Carboni and Colonel Gardiner sent off the message attached as Inclosure 3. At 1135, as no acknowledgement of the message recomending the cancellation of GIANT Tho had been received, the code phrase "Situation Innocuous" (Inclosure 4) was sent off. This had not been sent initially as its use had been reserved for the case of an Italian refusal to transmit a request for cancellation. It was used in this instance to save time as the encoding of longer messages was taking as much as three hours.
9. The Italians showed great concern over the possible reaction of the Allied Chiefs to their reversal of position on the amaistice. The American officers reinforced their apprehension by emphasizing the gravity of the situation in which the Badoglio government found itself. The Italians repeatedly urged the American officers to return and plead their case whereas the latter declined to be anything other than messengers. It was then decided that some senior officer should return with the Americans. The name of General Roatta was first proposed then withdrawn as he was considered indispensible in dealing with the Germans, (He had been miltiary attache to Germany.) General Hossi, Deputy Chief of the Supreme General Staff, was eventually selected and message No. 4 (Inclosire 5) was dispatched.
10. The hmerican officers expressed a desire to see General Ambrosio, Chief of the Supreme General Staff who was reported to be out of the City.


This interview was arranged eventually for 1830 but never took place as the officers were ordered back to Thinis by a message arriving about 1500. Although no authorization for their visit had been received, General Rossi and Lt. Tagliavia (interpreter) joined the American officers who were again put in an ambulance and driven to the Centocelle airfield.: The party took off at 1705 in a tri-motor Savia-Marchetti bomber which flew straight to El Aouina, Tunis, arriving at 1905. The officers were driven from here to "Fairfield" where the Americans roported to the Commander in Chief.

## 11. Conciusion.

While the Castellano mission was conmitting the Bodoglio government to active military cooperation, the Germans were building up their strength in the Rome area and throttling the flow of munitions and gesoline to the Italian troops. Although their fear of the Germans was mounting daily, the Italian leaders allowed themselves to become deeply committed to the Allies in the belief (so they said) that the major landings would be near Rome. By the time General Taylor and Colonel Gardiner arrived this illusion dispelled and the Itallans knew for certain that AVALMHCHE would strike in the Salerno area. While this produced a profound pessimism and a realization of their over commitments, they were allowing matters to drag without redefining clearly their position to the allies. The arrival of the American officers, their insistence on the imminence of events and the importance of action brought matters to a head and stopped an operation (GIANT TrO) which was near being launched into a situation which invited disaster.

MAXHELL D. TAYIOR, Brigadier General, U.S. Army
W. T. GARDINER, Colonel, Army Air Forces.



Inclosure 1
Message of Marshal Badoglio to Allied Commander in Chief
Translation

Due to changes in the situation brought about by the disposition and strength of the German forces in the Rome area, it is no longer possible to accept an immediate armistice as this could provoke the occupation of the capital and the violent assumption of the government by the Germans. Operation GIANT TYO is no longer possible because of lack of forces to guarantee the airfields. General Taylor is availm able to return to Sicily to present the views of the Government and awaits orders.

> Badoglio.

## Inclosure 2 <br> SECRET

## Message No. 1

8 September
In view of the statement of Larshal Badoglio as to inability to declare armistice and to guarantee fields GIAIT T 30 is impossible. Reasons given for change are irrepliceable lack of gasoline and munitions and new German dispositions. Badoglio requests Taylor return to present government views. Taylor and Gardiner awaiting instructions. Acknowledge.

Taylor Time signed Ol2l

## Inclosure 3

SECRET
Message No. 2
8 September
Summary of situation as stated by Italian authorities, Germans have 12,000 troops in Tiber valley. Panzer Grenadier Division inm creased by attachments to 24,000. Germans heve stopped supply gasoline and munitions so that Italian divisions virtually immobilized and have munitions only for a few hours of combat. Shortages make impossible the successful defense of Rome and the provision of logistical aid promised ajrborne troops. Latter not wanted at present as their arrival would bring an immediate attack on Rome. Source of these views Marshal Badoglio and General Carboni.


Taylor
SECRET

Time signed O820



Message No. 3
8 September
Situation innocuous.

Taylor Time signed 1135

## Inclosure No. 5

SECRET
In case Taylor is ordered to return to Sicily, authorities at Rome desire to send with him the Deputy Chief of the Supreme General Staff, General Fossi, to clarify issues. Is this visit authorized?

Taylor Tine signed 1140号


## A

A-5 Sec (NAAF), 29
A-20, 45, 50, 83-84, 96-97, 118, 191, 194, 196-98, 200, 208, $256-57,260,264,288-90,308$, 316, 359 ( $n$ 45)
$A-26,359$ (n 45)
$\mathrm{A}-36,45,47,53-54,66-68,81$, 95, 111-12, 125, 133, 135, $141,143,153,160,172,188$, $194,196-98,200,206,208$, $214,237,256-57,259-60$, $288-90,301,348$ (n 30)
Acquafondata, 258, 289-90
Acquapendente, 204, 208
AD HOC IVLIANCHE, 32
Adige R., 79
Adriatic Coast, 77, 142, 159
Adriatic Depot, 253
Adriatic Sea, 14, 130, 154, 164, 183, 198, 209-10, 216, 265, $273,289,291-92,297$
Aegean Is*, 309, 366 (n 29)
Aegean Sea, 1, 16, 17a, 181, $186,19 力, 211,268,270,275$, 281, 297, 312, 350 (n 70), 361 (n70)
Agnani-Frosinone line, 290
Agrigento, 137
Agropoli, 52, 67, 110, 119, 124, 138
Air Command Fost (La Marsa), 315
Air-Sea Rescue Control, 72
Air Service Cond, 218, 250, 252, 317-19. See also XII AFSC; XV iFSC; NMASG.
Air Support Contro7, 69, 116
Air Iransport Coad, 58, 320
Ajaccio, 166, 190, 195, 249, 253
Ajello, 118
Albanella, 52, 119, 138
ALbania, 209-10, 265, 273, 309, 337 ( $n$ 21)

Albatross $a / c, 65$
Albemarle $\mathrm{z} / \mathrm{c}, 46$
Albinia, 201 - 05
Alexander, Gen. Sir Harold, 24, 146
Alfedena, 200, 262
Algeria, 2, 10
Alghero, 104
Alziers, 10, 13, 27, 29, 40, 87, 89, 107, 151, 160, 190, 212
Algiers Conference, 24
Algiers Sector, 45
Alife, 194, 196-97
Allied Force Headquarters ( AFH ) ,
$10,13-17,25-30,32,35-36$,
$38,54,73,199,231,233,319$
Allied Forces,
C-in-C, 309, 311
Deputy C-in-C, 311
Altamura, 103
Altavilla, $52,119,130-31,139$, 144
Laralfi Drive, 37
Amendolara, 30-31
Anorosi, 162, 170
Ancon, $53,68-69,109,115,121$,
$135,160,338$ (n 28)
Ancona, 41, 195, 198, 201, 204-05, $247,244,258,260-63,265$,
$26 \mathrm{E}-69,300,353$ (n 26)
Andrews, Captain, 329 (n 26)
Angitola, 78
Angitola R., 63
Annecy, 272
Ansaldo works, 205-06, 272
Antheor viaduct, 211, 267, 277, 298
Antimachia, 192
Antrodoce, 260
Antwerp, 72
ANVIL, 250
Anzio, 197, 206, 250, 259
Apennines, 281, 364 (n 110)



Apulia, 91, 154
Aquila, 260, 259
Aquino, $62 \mathrm{a}, 149,197-98,208$, 258, 290
Araxos A/D, 186, 192, 273
Arce, 184, 197
Archi, 261
Arezzo, 258, 269, 296
Arezzn-Foligno-Terni-Orte line, 266
Argos A/D, 186, 192, 195
Ariano Irpino, 125-26, 136
Arnold, Gen. H. H., 56, 140, 218-19, 222-25, 227, 229-30, 234-35, 245, 271, 302, 313, 361 (n 70)
Arnone, 162,169
Asa, 124, 135
Assistant Chief of Air Staff, HIMED, 235
Assistant Chief of iir Staff, OCRR, 236
Atena Iscana, 137
Atessa, 261-62
Athens/Eleusis $A / D, 186,192$, 209, 248
Athens/Tatoi $\mathrm{A} / \mathrm{D}, 186,192,297$
Atina, 257-58, 290
Augsburg, 1.87, 243-44, 248, 254
Augusta, 87-98, 92-93, 305
iuletta, 102-03, 125-27, 133, $136-37,1.11-45,149,176$
Aulla, 295, 300
Ausonia defile, 170
Australin, 44
Austria, 180, 185, 189, 254, 298
AVALHICHE, $30-36,39-43,49-51$, 53-57, 59-61, 63-66, 70-73, $75-76,81,83,98-99,101$, 103-04, 107-08, 111-12, 116, 128-29, 135, 147, 149, 152-53, 156, 158a, 174, 179, 195, 326 ( $n$ 82). See also AD HOC.
Avellino, 102-03, 116, 125-26, 137, 139-41, 143, 156, 159, 163, 168 sector, 170
Aversa, 79-81, 86
Avezzano, 260-61, 288
"Aviation in Support of Ground Forces," 178

## B

B-17, 12, 44; 47, 55-57, 61-62a, $78-80,82,85,99-102,1040-05$, $117,125,127,136-37,141$, $143,147-48,158-58 \mathrm{Ba}, 162,169$, 185, 187, 192, 194, 202, 204-07, $210-11,214,229,235,246$, 266-67, 269-72, 274, 276-77, 295-97, 300, 306, 308, 316, 323, 353 (n 28), 359 (n 45)
B-24, 10-12, 42, 44, 46, 55-56, 58, 61-62a, 65, 78-79, 102, 104a-05, $117-18,125,142,144,147,157$, 259, 165, 186-87, 192, 202, 204, 206, 210, 228-29, 235, 246, 248, 269-71, 276, 296-97, 300-01, 306, 308, 316, 323, 347 (n 24)
B-24H, 235
B-25, 44-45, 57, 59, 61, 62a-63, $80,82-84,93,96-98,100,102$, 117, 125-26, 136-37, 141-43, $140,158-58 \mathrm{a}, 162-65,169-70$, 186, 191-92, 194-95, 197, 200, 202, 204-07, 209-10, 214, 246, $256-57,260,262-64,276,284$, 288-90, 292, 297, 301, 306, 308, 316, 347 ( n 25), 351 (n 6), 353 (n 26)
B-25G, 165, 186
B-26, 44, 57, 61, 63, 80, 82, 97-98, 100, 117-18, 125, 136, $141,144,148,151,158-58 \mathrm{a}, 162$, $165,169-70,184,194,202,204-06$, $241,246-47,250,253,266-68$, $274,295-99,330,352$ (n 24), 353 (n 25), 359 (n 45)
Bad Canstadt Ball Bearing Factory, 244
Badoglio, Marshal, 75a-76, 108
Bagaladi, 95
Bagnara, 95
Bagnoli, $80,211,278$
Balearics, 337 ( $n$ 22)
Balkan Support, Coudr., 311


Balkans, 1, 3-4, 14-17a, 21, 23, 41, 180-81, 201, 208, 210, 21.2-13, 217, 224, 231, 240-41, $254,275,277,306,312,350$ (n 70), 352 ( $n$ 18), 361 ( n 70 )
Baltinore a/c, 45, 50, 84, 93-94, $96-97,126,136,141,151,169$, 191, 194, 196-97, 200, 261-62, 264, 291-92
Bari, 12, 26, 62-62a, 78-79, 82, 120, 130, 154, 156, 158, 171, $174,185,229,232,251,253$, $255,278-79,304-05,354$ (n 37), 368 (n 12)
Barletta, 164, 229
BASRACUDA, 34
Barrea, 261
Bartron, Brig. Cen, H. A,, 44
Bastia, 155, 165, 186, 252, 347 (n 25)
Battipaglia, 52, 62-63, 80-81, 101, 103, 111, 119-20, 131, 135, 141-45
BAYTO:N, 32-33, 35-36, 39, 41-43, $49-51,54,61,63-64,72,74$, $75 \mathrm{c}, 76-77,81,83-84,87-90$, 93, 96, 99, 103, 106, 128-29, 147, 152-53, 156, 174, 326 ( n 82 ), 335 ( $n$ 113)
Beaufighter $\mathrm{a} / \mathrm{c}, 11-12,45,53-54$, 62, 66, 112, 121, 151, 165-67, 172, 200, 212, 279
Belgrade, 209, 354 (n 32)
Belvedere, 30-31
Benedetto, 198
Benevento, 80-51, 85, 103, 114, $126,136,157,162-63,168$, 170-71, 176, 183
Benghazi, 186, 280, 305
Berat-Kiucove A/D, 273
Bergemo/Seriate $A / D, 213$
Berlin-Istanbul line, 276
Bevans, Erig. Gen. J. M., 358 (n 43)
Bisley a/c, 73
Bivio Cioffi, 131
Bizerte, 45, 72, 85, 89, 105, 107, 151
Bizerte Sector, 72
Black Sea, 4
Eoiano, 125, 183, 197

Boise, 132
BOLERO, 19
Bolling Fld, 248
Bologna, 62a, 78-79, 169, 185, 187, 266, 268-69, 297, 300
Bolzano, 78, 169, 185, 267, 296, 298
Bomba, 216
Bone, 151
Bone Sector, 45
Borgo, 165, 191, 249
Borgo San Lorenzo, 299
Borizzo, 73
Born, Brig. Gen. C. F., 356 (n 9)
Boston a/c, 45, 83-34, 94, 127, 137, 196-98, 200, 206, 259, 263-64, 291
Bottomley, Air Vice Jarshal Normen, 223
Bouficha, 71
Bougie, 279-80
Bouzarea, 29
Dovalino, 96
Bova Marina, 84, 95
Brasov, 243
Brenner Pass route, 79, 298
Brereton, Maj. Gen. L. H., 44 , 58, 314
Bristico, 96
Brienza, 126
BRUNSTONE, 8-9, 20, 23-24, 26, 28-29, 34-36
Brindisi, 77, 154, 171, 229, 354 (n 37)
British Admiralty, 113
British Air Kinistry, 59, 223
British Ambassador, 75a
British Chiefs of Staff, 309
British Joint Staff Planners, 21
Brooke, Sir Alan, 8, 23-24, 35, 272-73
BT-14, 47
Bucharest, 354 (n 32)
Budapest, 243-44
Bulraria, 180, 275, 309, 354 (n 32)
BUTTE3S, 20, 23-29a, 31-34, 39-40, 325 (n 59,70 )
c
C-47, 46-47, 70, 138, 173, 316
C-53, 46, 70, 138, 316
Cagliari, 104
Caiazzo, 169, 196
Calabria, 30-31, 91, 154
Calato, 192
Calino, 275
Callendo, 267
Calore $\mathrm{H} ., 183,193$
Calvi, 191, 249
Carmerelle, 163,171
Cameri Novara, 213
Camigliatello, 93-94
Campanella Point, 354 (n 37)
Campo Casale, 249
Canada, 44, 291
Cancello, 62, 78-81, 117, 142, 162, 169-70, 193-94, 196
Cames, 267
Carmon, Maj. Gen. J. R., 230, 313, 315
Cantaloupo, 197
Capaccio, $124,135,138,172$
Capodichino A/D, 12, 62-62a, 99-101, 249
Capoterra, 104
Capri, 67, 109, 111, 154, 160, 31.5 (n 127)

Capriati, 197
Cafua, 62a, 70, 75c, 76, 82, 86, 99-101, 103, 117, 120, 145, 157-58a, 162-63, 170, 183-84, 191, 193-94, 196-97, 279, 342 ( n 91), 349 ( n 47 ), 354 (n. 40)
Carbonara, 93
Carinola, 194
Carpione, 260
Carunchio, 260
Casabianda, 249
Casablanca, 45, 48, 65
Cesablanca Conference, 6-7, 9-10, 17, 356 ( n 4 )
Casablanca Sector, 46
Casale, 207
Caserta, 80, 85, 257, 163, 183
Casoli, 262-63
Cassino, 125, 191, 196-98, 208, $250-57,259,286,288,290$

Cassino Line, 216, 290
Castel di sangro, 216, 262
Castelfrentano, 261
Castellanare, 142, 168
Gastellaneta, 154
Gastellano, Gen., 75a-75c
Castellorizzo (Rhodes), 305
Castelnuova, 125-26, 136, 145, 163, 168, 171, 216
Castelvenere, 170
Gastel Volturno, 184
Castiglione, 198, 299
Castrovillari, 30, 81
Catania, 88, 92-93, 112, 305
Catanzaro, 32, 63, 8u-81, 95, 97-98, 118, 128
Catona, 49, 93
$\operatorname{CCS} 217 / 2,239,275-76$
$\operatorname{CCS} 387 / 3,310,312-13$
Cecine, 266, 268, 295, 298
Celenza, 260
Central Europe, 354 (n 32)
Central Mediterranean Forces, 315
Ceprano, 288
Cercola, 249
Cerignola, 156
Cerneteri, 75c
Certaldo, 299
Cervaro, 256, 290
Cerveteri, 158a, 197, 207-08, 258-59
Cesano, 269
Cetraro, 81
CG-44, 59, 75
Cherchel, 151
Chieti, 188, 198, 287-88
Chilivani, 104
China-Burma-India, 237
Chiusi, 268
Churchill, Prime Kinister, 2-6, 9, 17-17a, 22-24, 40, 42, 75a, 179, 309-10
Ciampino fields, 300
North, 158
South, 158-58a.
Ciampino railway junction, 268
Cisterna, 158, 196, 257
Cittanova, 32, 96
Civita Casteliana, 208
Civitanova, 204-05, 263


Givitavecchia, 39, 61, 80, 185, 194, 206, 241, 258-59, 267-68, 288~90, 299
Clark, Gen. Wark, 135, 146, 326 (n 81), 34i (n 77)
Coastal Air Force (CAF), 29a, $65,68,72,109,118,127$, $150,152,153-54,165-67$, 175-76, 191, 211-12, 214, 218, $247,250,278-79,282-83,293$, $306,308,339(n 47), 354$ ( $n$ 37), 367 (n 33). See a1so WACAF; NSDAF. Gaf Blida, 46, 316
Daf Bone, 46
CAF Fort Lyauley, 46
CAF Tafaraoui, 46
Combined Bomber Offensive (CBO), 217-18, 220, 222, 226-27, 231, $233,239-40,255,265,269-78$, $294,302-03,309,317,356$ (n 4)
Combined Chiefs of Staff (OCS), $6,17-17 \mathrm{a}, 21-22,24,28$, $31-32,35-36,39-42,55,59$, $75 a, 75 \mathrm{c}, 116,141,147,157$, $179,220 \mathrm{~m} 21,222,225-26$, 229-30, 233, 239, 241, 311, 313, 324 (n 46)
Combined Staff Planners (CPS), $3,5,6,141,324$ (n 46) Combined Sub-Committee, 4, 6 Comiso, 138
Gomandos, 52, 110-11, 188
Coningham, Air Wice Marshal Six Arthux, 44
Control Force, 52-53, 329 (n 26)
Corfu/Garitsa A/D, 192
Corleto, 126-27, 129, 136
Corsica, 2, 14-17, 19-21, 24-25, $34-37,41,83,90-91,104-04 a$, $149-51,154-55,164-66,168$, 176, 181, 185-57, 190, 233, $247-54,265,293,320,347$ ( n 26)
Corsican patriots, 164-65
Cos I., 186, 275
Cosenza, 12, 81, 93-96, 118, 125-26, 137
Crete, $4,3.4,185-86,192,213$, 309, 312

Crotone, 12, 20, 26, 62a-63, 80, 82, 91, 93, 97, 142, 278,
335 (n 106)
Csepel, 243
Cunningham, Ada. Sir Andrew, 20
Cupello, 260
Cyprus, 337 (n 21)
Cyrenaica, 97, 186, 210
Czechoslovakia, 16, 180

D

Dakota a/c, 65
DaImatian Coast, 14, 289, 292
Danubian supply routes, 16, 180
Davidson, Brig. Gen. D. A4, 251
Dawley, Maj. Gen. E. J., 51
Decimomannu, 169, 202, 250
Dellys, 152
Deputy Air C-in-G (Brit.), 311
Deputy Air C-in-C (U. S.), 311
Desert Air Force ( D 5 F ) , 45, 49-50, $65,69,72,92-93,128-29,141$, $101,164,171,175,188,191$, 195, 251, 260-61, 263, 288, 292, 305, 316, 328 (n 3) D4F (Rear), 328 (n 3)
Devers, Lt. Gen. J. I ${ }_{*}$, 314
Diversion $\mathrm{Gp}, 53,329$ ( n 26 )
Djedeida, 202
Do-217, 87, 95, 114-15, 166, 195, 212-13, 254, 279
Dodecanese Is., 4, 14, 180, 185, 337 (n 21)
Dogliola, 260
Dogna, 269, 298
Doolittle, Maj. Gen. James, 44, $148,223-24,227,230,234$, 239, 314-25, 370 (n 45)
Douglas, Air Chief Karshal, 43
Dubrovnik, 14
uxrazzo, 265

## E

Sth AF, 55-55, 147, 217, 220, 222, 226-27, 23 , 237, 239, 243-44, $271,295,302,314-15,320(\mathrm{n} 30)$, $356(\mathrm{n} \mathrm{4}), 368(\mathrm{n} \mathrm{8}), 370(\mathrm{n} \mathrm{31})$

8th Army, 32, 34, 49-50, 78, 84, 92-95, 98, 103, 106, 128-29, $154,156,158 \mathrm{a}, 161,164,168$, 171-75, 183,183, 195, 198-200, 216-17, 239, 253, 259, 261-63, 265, 269, 286-57, 289, 291, 360 (n 65)
8th Indian Div, 261
82d Airborne Div, 51, 59, 70-71, $75 \mathrm{c}, 120,137,329$ (n 23),
342 (n 96)
82d Fighter 0p, 66, 152, 199, 232,351 ( 15 )
86th Finghter-Eomber Cp, 160
817th Enge Avn Bn, 123-24
Eaker, Lt. Gen. I. C., 55, 218, 222, 227, 235, 239, 313-15, 330 (n 30), 370 (n 45)
Ibenfurth, 211
Tboli, 103, 132, 137, 141-45, 176
Ecole Normale, 29
Edwards, Maj. Gen. I. He, 218, 222, 314, 370 (n 45)
Eisenhower, Cen. D. D., 19-22, $24-25,28,31-32,34,36-37$, 39-43, 55, 57-59, 60, 65, 70, $75 \mathrm{a}-75 \mathrm{c}, 76,108,116,129$, 147-49, 157, 165, 179, 203, 218, 220-21, 223-26, 225, 230, $233,241,275-76,293,310$, 313, 324 (n 46), 330 (n 30), 350 (n 70)
El Alamein, 317
2lba, 150, 165,187
Rleusis A/D, 186, 192, 209, 248, 275, 297, 300
Elmas, 104, 250
Eupoli, 279
Enfidaville, 71
Engineer Cond, 218, 319
Bngland, 219, 224, 227, 247. See aiso Eritish; United Kingdom.
Engineer Petroleum Distribution Co., 251
Erla-Leipzig complex, 243, 301

## F

lst Airborne Div, 129, 342 (n 96)
lst Amored Div, 51
lst Bn ( 82 d Airborne Div), 138
1st Fighter Cp, 66, 152, 232
lst Ranger $\mathrm{Bn}, 329$ (n 22)
4 th Ranger $\mathrm{Bn}, 329$ (n 22)
5th Army, 29, 31, 40, 50-51,
$69-70,98,102,116,118,120$,
$129-31,133,137,141-46$,
$156-57,158 a, 160-64,168$,
170-71, 174-75, 183-84, 185,
$191,193,194-96,200,212$, 216-17, 239, 256, 265, 286-87, $289-90,326$ (n 81), 360 (n 60)
5th Bomb hg, 316
Hq \& Hq Sq, 232
5 th Photo Recon Gp, 74, 237m38, 317
14th Fighter Gp, 66, 152, 232, 351 (n 5)
15th AF, 216-50, 265, 269, 271, 277, 302-03, 308, 311, 313, 315, 317-19, 356 ( $n$ 4, 9), 359 ( $n 45$, 52), 365 ( n 8), 368 ( n 8), 370 (n 31), 371 (n 58)
XV Air Force Service Comd, 356 (n 3), 371 (n 58). See also ASC.
15th Army Gp, $\mathrm{C}-\mathrm{in}-\mathrm{C}, 311$
15th Combat Vapping Sa, 237
4lst Service Gp, 172
42d Bonb ikg, 238, 250, 253, 316, 352 (n 24)
$\mathrm{Hq} \& \mathrm{Ho} \mathrm{So}, 232-33$
44th Bomb Gp, 147, 347 (n 23)
45th Div, 51, 139
47th Bomb Gp (L), 50, 351 (n 5), 354 (n 40)
47th Bomb ing, 316
$\mathrm{Hq} \times \mathrm{Hq} \mathrm{Sq}, 232$
51.st Troop Carrier ing, 46, 70,

137, 172-73, 215, 238, 316
52d Fighter Gp, 191
52d Fighter Wg, 238
52d Troop Carrier Uig, 46, 70-71, 137, 215, 316
57 th Bomb $w \mathrm{~g}, 238$
57th Fighter Gp, 58
416th $\mathrm{Eq}_{\mathrm{g}}$ (MAF), 354 (n 37)
449th Borab Gp (H), 235
450th Bomb Gp (H), 235
451.st Bomb Gp (H), 235

454th Bomb Gp (H), 235
455th Bomb Gp (H), 235
456th Bomb Gp (H), 235

504th Regt, 137
505th Regt, 137
506th Parachute Infantry hegt, 71
509th Airborne Regt, 139
F-4, 47
F-5, 47
F-54, 150, 247
F-8, 47-48
Faenza-San Lorenzo Iine, 300
Falconara, 269, 299
Falconara Karittima, 260
Fano, 268
Felice, 197
Ferrara, 257, 264, 298-99
Ferry Pilot Service, 73
Ferryville, 105
Fertilia, 104
Fiano/Fomana is/D, 257, 273-74
Fiat ball-bearing works, 272, 296
Field Sanual 31-35, 178
Fiora R., 266
EIFEBRAND, 20, 24, 26, 34-36
Fleet Air Arm, 111, 338 (n 38)
Fliegerkorps II, 280
Florence, 204, 208, 266-68, 277, 296
Florence-Leghorn-Spezia triangle, 277
Flores, 121
Foggia, 53, 62-62a, 63, 77-83, 85-87, 91, 99, 101, 104a, 105, $114,117-18,121,125,130$, $149,156,158-58 \mathrm{a}, 164,168$, $174,180,185,195,218,224$, $229-30,233,244,249,251-52$, 295, 357 (n 15), 364 (n 110)
Foggia complex, 82, 85, 88, 101, 117, 168, 203, 233, 253, 334 (n99)
Fogeia Hain, 202, 249
Focgia No. 1, 101
Foggia No. 2, 101-02
Foligno, 266, 269, 299
Forio, 102-03
Formia, 102-03, 125-26, 136, $162-63,169,171,184,191$, $194,206,258$
Formicola, 194

Fortress. See B-17.
Fossacesia, 216-17, 261-63, 286
France, $1,4,9,14,16-19,37$,
$41,86,90,108,121,147$, $181-82,190,207,211,231$, $233,250,254,267,272,310$. See also French.
Franco-Italian frontier, 297
Francolise, 197
Frascati, 102, 104a, 105
Fratello, 197
French Air Force (EAF), 44, $46-47,65,150,166,190$, 247-48, 312, 316
French Morocco, 2, 65
French troops, 35, 41, 164-65
Friedrichshafen, 243
Frosinone, 121, 125-27, 149, 10́7, 206, 258, 288, 290
Fuerstein, 243
Furbara, $75 \mathrm{c}, 207$
Furci, 260
$771-190,85,89,95,97,108$, $114,143,262,270$

## G

Q-3 $\left.\sec (\mathrm{NFH} 2), 385 / 326 \mathrm{n}_{\mathrm{n}} \mathrm{BR}\right)$
Gaeta, 102-03, 258
Gulf of $37,101-02,111,183$, 326 ( n 82 )
Galdo, 168
Gallico, 49, 93-94
Garibut, 186, 210
Gardinex, Col. W. T., 750
Gargano Peninsula, 168
Garigliano R., 163, 197, 216, 256, 286
Garitsa A/D, 192
Gaudo, 249
Genoa, 15, 151, 181, 205, 207, $258,266-67,272-73,295,297-98$, 300
Gerbini, 38, 53-54, 152
German Air Force (GAF), 50, 55-56, $64,67,84-85,88,90,98$, 104-04a, 113, 115, 123, 127, $133,157-58 \mathrm{a}, 161,166-68,171$, $174-75,177,185-86,188-90$,

Geman Air Force (contd), 192, 195, 201, 204-07, 210-11, 214, 219, 225, 228, 240-43, 254-55, 257, 262, 268, 271, 278-82, $291,295,301-07,366$ (n 29)
German General Staff, 94
German High Command, 102, 128
Ghedi, 213
Chisonaccia, 249, 252
Giant I (Kevised), 137-38, 140, 342 ( n 91)
Giant II, 75c, 117
Giant III, 139
Ciant IV, 138
GIBBON, 49, 103, 129, 174
Gibraltar, 6, 48, 239, 311
Giles, Maj. Gen. E. 15., 245, 302
Ginosa, 154
Gioia, $96,130,154,156,249$
Gioiosa, 96
Gipso, 94
Giraud, Gen., 35
Giulianova, 289
GOBLET, $20,23,25-28,325$ (n 59)
Gorizia, 12
Grasshopper a/c, 132
Grazzanise, 63, 82, 86, 140-01, 125, 184
Greece, 3, 16, 18, 185-86, 192, 195, 198, 201, 208, 210, 212-13, $217,273,275,281,297,306$, 309, 337 (n 21)
Criczana, 269
Grosseto, 12, 61, 125, 185, 194, 201, 204-05, 268, 274
Grosseto complex, 207
Grottaglie, 62-629, 82, 94, 143, 202-03
Grottaninarda bridges, 162
Guardiagrele, 263, 287
Guidonia, 75c, 207, 273, 297
Cuilianova, 195, 204, 263
Gundelfingen, 187
Gyor, 243

H
Halifax $a / c, 46,79, ~ 82$
Hall, Hear kimiral, 329 (n 26)

Hamburg, 276
Hanover, 276
Harris, Hir Marshal, 218, 227
He-111, 85, 1u5, 114, 212, 274, 279
He-177, 279
Henschel and Sohn works, 187, 270
Herakleion A/D, 186, 192
Hergla corridor, 71
Herman Goering works, 243
Hewitt, Vice l dm. H. K., 52, 329 ( n 26)
Hisgway 6, 163, 197
Highway 7, 163, 194, 197
Hishway 19, 52
Highway 85, 197
Hilary, 69, 160
Hi11 424, 130-31
Horsa glider, 59
House, Maj. Cen. E. J., 68-69, 135
Hudson z/c, 45-46, 150-51
Hungary, 180, 254, 309
Hurricane a/c, 45, 247
HUSKY, 1., $7-10,13-29,32,50$, $54-55,61,324(n 46)$

## I

Iesi, 260-61
Il Fiumarello, 52
Truperia, 205-07
Imperio, 298
India, 65
Indian Ccean, 19
Indian troops, 291
Innsbruck $H / Y^{\prime} s, 298$
Irato, 187
Iscara R., 79
Ischia, $100,102,345$ ( n 127)
Isernia, 125-26, 136, 157, 171, $183-84,188,197-98,257,260$
Isoletta, 184
Istanbul, 216
Istres complex, 190, 273-74, 279
Italian fir Force (IAF), 67, 91, 104, 108-09, 199, 277, 293-94, 312, 337 ( $n$ 21)

Italien governneat, 108
Italian Navy, 12, 17a, 18, 109
Itri, 239

## J

Joint Chiefs of Staff (JCB), 4, $35-36,221,224,350$ (n 70)
joint Intelligence Center (JIC), 27
Ju-52, 166
Ju-37, 98,114
Ju-ge, 85, 87-93, 93, 101, 105,
$109,114-15,143,156,166$,
$195,208,211-13,270,276-90$

## K

Kaicouan, 59, 70-71
Kalaraki, 275, 297, 300
Yasgerine, 361 (n 75)
Kauch, Brig. Gen, …4., 46, 320
Kesselring, Field Karshal, 102, $179,189,193-94,198$
Kittyhawk a/c, 45, 96-97, 118, 143, 187, 195, 19e-200, 328 (a3)
Milosterle, 243
Kotor, 14

## L

Lagonegro, 136, 145, 163
Lake Braccieno, 198
La Laddalena, 12, 154, 279
La Larsa, 315
Lamezia, 80-81
Lampedusa, 26
Lanciano, 216-17, 262, 287
Larissa, 192, 209, 275
La Spezia, 207
Latecoere a/c, 247
Latina, 196
Laureana, 96
Lauria, 97-98
Lecce, 77, 203, 249
Leghorm, 15, 61-62, 79, 1.64-55, 187, 199, 277

Leipzic, 243, 307, 365 (n 11)
Leros I., 186, 210, 275, 366 (n 29)
Les Pates, 274
Le Tube, 274
Levkas Channel, 198-99
Liberator. See B-24.
Libya, 10
Lido di Rona $A / D, 61$
Ligatning a/c, 296
Llgarian Sea, 151
Lingotto, 272, 296
Linz, 243
Lipari, 72-73
Liri Valley, 286
Lision, 75a
Littoria, 75c, 158
Littorio, 81
Lloyd, Air Vice Larshal Sir Pugh, 44,314
Lombardy Plaing 15-16
London, 13
Lucana, 137
Luftflotte,2, 281
Iycee Carnot, 232

He
Hocreery, Lt. Gen. Sir R. L., 51
NoNarney, Lt. Gen. J. T., 222

## $\mathbf{M}$

Eacchi. See Mc-200, -202, -205.
Yaddaloni, 163, 169
Magliano, 52
Hajori, 52, 110
Walta, 11-12, 48, 61-62, 71, 81,
150, 284
Air Hq, 317
$\mathrm{Hg}, 43,50$
Malta Forces, 315
Manduria, 47, 233, 249
Kanfredonia, 78, 229, 252
Manfred Heiss Lesserschmitt Plant, 244
Marauder. See E.-26.
Marcigliana, 207, 258
Haritza, 192
Marsciano, 204-05, 267

Marseilles, 151, 181, 266, 296
Liarshall, Gen. G. C., 8-9, 23-24, $35-36,57-58,140-41,147,149$, $203,220,323(\mathrm{n} 21), 353(\mathrm{n} 26)$
Wayo, 132
Mc-200, 95
Mc-202, 85, 05
1Hc-205, 199, 2ठ2
Ne-109, 85, 87, 93, 114, 142, $192,243,270,281,365$ (n 11)
सe-110, 85, 270, 301
12e-210, 85
Kediterranean, Allied C-in-C, 312
Nediterrancan Air Command (LAC), $43,120,133,144,231,308-10$, 312-13
Ha, AIgiers, 315
Vediterranean Lir Transoort
Service (14Ts), 46-47, 73, 172, 215, 320
Advance Hq, 320
Continental Div, 320
Mediterranean ${ }^{\text {Hllied Air Forces }}$ (HARF), 199, 231, 244, 246, $300-02,308-09,312-13,316$, 370 ( $n$ 31), 371 ( $n$ 52)
Air C-in-C, 311-12
Ha, 315
Mediterranean Allied Coastal Air Force ( ZACAF ), 314, 316, 319. See also CAF, NACAF.

Hediterranean illied Fhoto Ftecon Fing (MAPEtr), 317, 319. See also NAPKir.
Mediterranean allied Strategic Bir Force (MASAF), 231, 329, 371 (n 55). See aiso NASAF; SLF.
Mediterranean Allied Tactical Air Force (NTAF), 112, 231, 319. See also NATAF; TAF.

Megalo/tifkra A/D, 209
Melti, 164
Merano, 79
Messerschmitt factories, 2lu, 270, 301
Messina, 20, 33, 38-39, 43-49, 53m $54,61,65-66,88,92-93$, 105, 112
Mestre, 185

Ketaponto, 102-03, 142
Metkovic, 264
Widdle East, 3, 10-12, 43-45,
$58,65,82,176,210,214,246$,
308-09, 312, 316
AOC-inc, 311-12
$\mathrm{c}-\mathrm{in}-\mathrm{d}, 311$
See also RHF.
Mijglianico, 288, 291
Vignano, 126, 136, 157, 162,
169, 184, 197, 216, 256-59,
286, 288-89
Mikra A/D, 239
Uilan, 298
Milazzo, 129
Milazzo Peninsula, 73
Milbertshafen, 243
1410, 138
Ninturno, 100-01, 197, 206, 256-57
Mobile Unit No. 2, 173
Mobile Unit. No. 7, 173
Modane, 147
Monahan, Col. J. ut, 44
Monastir Corridor, 71
Mondragone, 183, 191, 216
Monserrato, 104
Yontalto di Castro, 204-05, 266
Mont Cenis Tunnel, 147
Montecorvino, 29a, 38, 51-52, 62a, 67, 75, 101, 111, 119-20, $124,166,172-73,249,349$
( n 47 )
Nontenero, 197
Montpellier, 190
Loro H., 288
Kosquito $\mathrm{a} / \mathrm{c}, 11 \mathrm{~m} 2,47,81,150$, 258, 264
miostar, 29 ?
kottola, 154
Nount di Chiunzi, 52, 119
Nount Vesole, 52
Mozzagrogna, 263
Hunich-linilbertshofen Ordnance Depot, 243
MUSKET, 20, 23, 26, 28, 29a-31
Mussolini, Benito, 38, 75a


## i

9th AF, 11-12, 29a, 43, 44, $58-59,61,62 \mathrm{a}-63,82,97$, $102,117,125,142,284,323$, 330 (n 39)
IX Romber Comd, 157
90 th Photo Recon Wg, 237, 318-19
93d Bomb Gp, 147, 347 ( n 23 )
97th Bomb Gp (E), 232
$98 t h$ Bomb Gp (H), 11, 210, 232, 330 (n 39)
99th Bomb Gp (H), 232
99th Fighter Sq, 235, 348 (n 43)
907th firbase Security Bn, 232
909 th Airbase Security Bn, 232
910th hirbase Security $\mathrm{Bn}, 232$
927 th Signal Bn, 68
Neples, 3, 11-12, 20, 26-29a, 30-34, 37-33, 51-53, 61-62a, $63,70,77-78,80,83,85-87$, $91,94,99-100,102,105,111$, $1114,116-17,130,136,142$, $145,150,156,153,162-63$, $168,171,174,180,188,192$, 203, 211-12, 218, 249, 252, 255, 278-80, 320, 345 (n 127), 349 ( n 47 ), 354 (n 37), 364 ( n . 1.10 )
Naples complex, 68, 168, 203
Nauset, 177
Wavy, $5,29,40,65,69,1.13-14$, 161, 177, 339 ( $n$ 47)
Wewfoundlend, 177
New Zealanders, 287-88, 291
Nicastro, 81, 11s, 128
Wice, 268
Nice-Genoa line, 297
Wicotera 32
stish $14 / 4$, 209, 354 (n 32)
Nish-Salonike railwey, 208
Nocera, 163, 168m7
Nocera-Fagani passes, 52,111, 119
Norstad, General, 320
North Africs, 1-4, 6-2, 12, 19, 22-24, 32, 47, 53, 75, 109, $127,149-50,190,202,210$, $215,229,231,233,235,248$, $251-52,254,284,320,337$ (n 21)
North ifrican Theater of Operations, U. S. Amy (mincust ), 231, 315, 318-19

North Eeach, 75
Northern Attack Force, 107, 109
Northern Bese See, 253
Northern Task Foree, 52-53, 329 (n 26)
Northwest African Air Forces (NAF),
10, 29, 32-33, 40, 44, 48, 56-61,
$63,66,71,73,78,81-82,87$,
96, 99, 104-04a, 106, 105, 113 , $116-18,120,122,125,127,132$, 137, 141-49, 151-5h, 157-59, $161,164,166,168,170,173$, 175-77, 185-56, 190, 193-96, 199, 201-04, 207, 209-11, 213-15, $217-18,220,223,225,229,231$, 237, 240, 242-48, 250-55, 269, $272-73,275,280,282-84,293-04$, $304,306-10,312,315,319$,
328 ( n 1 ), 346 (n 8), 347 (n 26),
349 (n 47), 353 ( n 30 ), 361
(n 75), 367 ( n 33 ), 371 ( $\mathrm{n} 52,55$ )
Northwest African Air Service Comd (NASSC), 44, 46-47, 73-74, 172, 319. See giso Air Service Cond.

Northwest African Coastal Air Force (NaCAF), 44-45, 107, 109, 166, 176, 214 , 328 ( n 4 ). Siee also CAF; BKCAF.
Northwest African Photo Recon Wg (N:PRW), 44, 47-48, 74, 87, 149-51, 167, 211, 213, 218, $247,250,265,283,293,306$. gee elso liapriv.
Northwest African Strategic Air Force ( MASAF ), $44,100 \mathrm{~m} 03,127$, $133-34,136,143,175-76,202$, 206, 231. See also MASAF; SAF.
Northwest Afxican Tactical Air Force (NATAF), 44-45, 1.12, 116, $121,128,133-35,141,143,171$, $175-76,178,208,211,213,231$, 371 ( n 55). See aiso MataF; TAF.
Northwest Africen Iraining Comd (NTMC), 44, 47, 21s. See also XII AFTC.
Northwest African Troop Carrier Comd (MATCS), 44-46. See aiso XII TCC; rCc.

1. See under "F."

111th Observation $\mathrm{Sq}, 69,74,135$

141st Infantry, 110
141st Regtl Combat Team, 52
$178 \mathrm{Sq}(\mathrm{LAF}), 11-12$
Oberpfaffenhofen, 243
Ogliastro, 138
Oliver, Lemodore, 329 (n 26)
Ombrone R., 268
"Operations after Husky," 20
Operations Liv, VDCS, (OPD), 222
Oran, 151, 190, 279
Oran Sectox, 46, 107
Orbetello, 194, 204, 267
Ordnance units, 75, 173
Crsogna, 217, 263, 287-58, 291-92.
Orte, 79, 266, 269, 297, 299
Orti, 84
Ortona, 217, 286, 288, 291
Orvieto, 204-06, 266, 296, 299, 353 ( $\mathfrak{n} 28$ )
Oudna, 202
Outline Air Plan for Operation AVALANCHE, 50-51, 66, 76, 99, 101, 103, 111, 114
OVERLORD, $40,141,220,223$, $227,233,241-42,342(n 96)$, 350 (n 70)
Ozieri, 104

## P

$\mathrm{F}-36,236$
P-38, 44, 47-48, 53, 56, 58, $66-67,74,82,85,100,111-12$, 115, 124-25, 133-34, 141, 143, $148,152,1582-59,169-70$, 173, 186-87, 192-93, 195, 198, $200,202,234-05,209-09,214$, $236-37,265-66,268-70,274$, $276,295-97,302,308,329$ ( n 29 ), 348 ( n 30 ), 353 ( n 27 )
$\mathrm{P}-39,46-47,53-54,66,151,236$, 247
$\mathrm{P}-392,235$
$\mathrm{P}-40,44-45,53-54,58,66,68$, 81, 93, 97, 104, 127, 135, $141,143,149,159 m 60$, 164, 169, 171-72, 188-89, 194, 197, $200,202,214,236-37,247$, 256, 259-62, 264, 287-93, 348 (n 30), 364 (n 111)
p-37, 237, 293, 359 (n 45), 364 (n 111)

P-51, 45, 69, 132, 135, 161, 236-37, 302
P-63, 236
Pabilionis, 104
Pacific Ocean, 19
Padua, 79, 264, 298, 300
Paestum, 37-38, 52, 67, 110, 120, $124,134-35,139,154,160$, 172-73
Pagani, 163
Pagani Fass, 168, 52, 111, 119
Palata, 188
Falena, 261
Palermo, 73, 75c, 87, 107
Pal ermo Sector, 45, 326 (n 4)
Palestrina, 197
Failui. 96
Falnoli, 260
Pantelleria, 26, 62, 71
PAMMIER, 63
Paola, 81, 128
Park, Hir Vice Larshal, 43
Parma, 300
Partisans, 293, 317, 368 (n 4)
Fartridge, Brig. Gen. E. E*, 230-31
Pastorano, 191
Patriots, 347 ( n 25)
PBY, 73
PSY-5, 367 (n 33)
Pellaro, 61
Pelz doctrine, 280
Perano, 261
Persano, 119, 131
Perugia, 204, 208, 213, 267, 299
Pescara, 79, 142, 159, 163, 189, 191, 195, 198, 202, 261-62, 264, 297
Pescara R., 287, 289
Pesopagano, 159
Petillea, 128
Philadelphia, 122, 132, 177
Philipneville, Algeria, 278
Piano (Italy), 170
Ficentino Oreek, 52
Ficket Gp, 53
Piedimonte, 183, 191
Pietraviaino, 197
Pignataro, 191
Fiombino, 151
Pireeus, 300
Pisa, 12, 78, 81, 165, 185, 266-67, $298 \mathrm{m00}, 353$ (n 26)
Pisciotta, 67

Fistoia, 189, 205-06, 299-300
Fizzo, 12, 97
Pizzone, 216
Ploesti refineries, 7, 17a, 30 , $42,55,58,180,219,241$, 356 (n 4)
Podgorica, 209
Poggibonsi, 299
Poggiofiorito, 261
Popliano, 118
POIVTESM:NK, 40, 220, 222, 223-273
$230,233,239-44,271,356$ (n 4), 361 ( n 70 )
Poland, 44, 301
Policastro, Gulf of, 63
Polla, 144
Pondgiiano $/ / D, 62-62 a, 100,249$
Pompeii, 110, 136-37, 141-42, $144-45,157,163$
Pontassieve $M / Y^{\prime} s, 296$
Ponte, 162, 169
Pontecagnanc, 135
Pontecorvo, 257, 259, 290
Pontedera, 187, 300
Ponte Sele, 52
Po R., 219
Portal, fir Narshal, 8, 218-19, 223, 226, 272
Port Lyautey, 65
Porto Maurizio, 205-06
Porto Haurizio, 205-06
Port San Giorgia, 195
Positano, 119
Potenza, 102-03, 116-17, 120, $133,136,144-45,156-57,164$
Po Valle, $77,1<9,201-03,273$, 304, 350 (n 70)
Practica di Lare, 158, 158a
Pratella, 197, 206
Prato, 267, 299-300
FrICELESS, 31
Procide, 280, 345 (n 127)
Psychological herfare Board, 278
Pula, 93

QUADRANT, 221
QUADLAET Conference, 40,220

Quartermaster Corps, 75
quebec, 40-41
Quebec Conference (2UADTHT), 218-19

## $R$

Rangers, 52, 110-11
Lavenna, 299
Gebecca-Eureka (ground-air communications), 71
Hecco viaduct, 268, 298
Red Aray, 180
Regensburg, 243-44, 254, 301, 365 (n 11)
Reggio di Calabria, 11, 20, 26, $49,54,61-63,83-84,92-94$, 141-42, 278
Regia Aeronautica, 199
Rhodes, 186, 192
Rieti, 194
Rinini, 266, 268-69, 299-300
Siviera, I81.
Rivisondoli, 261
Roccadaspide, 52, 119, 143-44, 263, 288
Roccaraso, 261
Zoccasecca, 257
Rome, 3, 9, 12, 15-16, 27, 30, $36-39,41-42,62 a-63,75 \mathrm{~b}-75 \mathrm{c}$, $77-78,81,100,102,145$, $149-50,158-580,168,181,189$, 191, 194, 196-97, 201-02, $204-08,212-13,219,226,257$, 266-59, 273, 288, 290, 295, $297-99,326(n 82), 329(n 23)$
Rome complex, 75c
Fome-Florence Directissima Line, 266
Kommel, Marshal, 10
Rooks, Eric. Gen. L. it., 41-42
Roosevelt, Col. Elliot, 44
Roosevelt, Pres. F. D., 2, 6, $9-10,17-1$ ? a $, 22,24,35,40$, $42,75 \mathrm{a}, 248,309-10,323$ ( n 21)
Eosarno, 84, 97
ROUHDUF, 16
Royal Air Force ( $A A F$ ), 2, 11, 43-48, $50,59,65-66,68,74,80,82-84$, $94,102-03,111,114,123,125-26$,

Royal Air Force (contd), 334-35, $141,143-44,147,153,160$, $171-72,175-77,210,214,246$, $256,258,283,285,289,303$, $306,311 .-12,315-17,371$ (n 54) Eomber Comd, 24/4, 356 (n 4) Eastern Air Comd, 46
Widdle East, 43, 80, 214, $234,312,323$ ( n 27 )
Training Commend, 320
Royal Artillery, 132
Royal suctralian itir Fonce ( ALAF ), 44, 172
Royal Canadian Air Force, 44, 316
Roysil Navy, 177
fumania, 7, 16, 180, 309
Iutino, 142

5
II Air Service Area Comd, 356 (n 3), 371 (n 58)
2d Amored Div, 51
2d Bomb Gp (H), 232, 337 (n 15), 353 ( n 28 )
VI Corps, 51-53, 110, 116, 118-19, $124,130-32,136-38,161,168$, $170,193-94,341$ ( $n 77$ ) GB, 343 ( $n$ 104)
17th Boab Cp (:!), 232
61 st Troop Carrier Cp, 138
62d Fighter ile, 45, 238, 316
63d Fighter ig, 190, 238, 316
64th Fighter i.e, 68, 135, 160-61,
238, 354 ( $n$ 37)
64th Troop Carrier Gp, 139, 172
79th Fighter Gp, 58, 351 ( n 5 )
Saint Valentin Tank Factory, 243
Sala Consilina highway, 137
Salerno, 29a, 30-31, 37-38, 51-54, $62-620,64,66-67,72,76,78$, 80-81, 86, 98-99, 101, 102-03, $105-07,110-11,119,122,124$, $128-30,135-36,139-45,149$, $152,154,156,159,162,166$, 167-68, 172-73, 176-80, 326 ( $n$ 81), $341(n 73), 349(n 47)$, 361 (n 75)
Bay, 160
Gulf of, 52, 111

Salerno Sector, 101, 116, 129, 188
Salina I., 73
Salon, 86, 274
Salonika, 185, 192, 208
Salonika/Seles $k / D, 209$
Sanos I., 186, 210, 275, 306 (n 29)
Samuel Chase, 69
San Ambrogio, 259, 288
San Angelo, 262
San Bartolemeo, 168
San Benedetto, 292
San Biago, 257
San Hiano Romano, 194
San Giorgio, 206, 288
San Giovannì, 12, 20, 26, 31, 62, 84
San Giusto, 165
Sangro, 216
Sangro Re, 260-62
San Lorenzo line, 300
San Lucis, 163
San Laria Imbaro, 262
San Martino bridge, 162
San Pancrazio, 97, 202, 249
San Salvo, 197
San Severino, 137
San Stefano, 95
Santa Elia, 257-58, 288, 290
Santa Maria, 261-62
San Vito, 216, 287
San Vittore, 290
Sapri, 63, 80-81, 97-98, 116, 125-26, 129, 133, 154
Sardinia, 1-6, 8-9, 12, 14-17, 19-21, 23-25, 28, $34-37,40-41$, $63,83,89-91,103-04 a, 127$, 149-51, 154, 164, 168-69, 181, 190, 202, 229-30, 239, 241, 245, 250-51, 253-54, 274, 279, 320, 322 (n 7), 348 (n 40), 366 (n 22)
Sarno, 163, 169-71
Savannah, 110, 121-22, 177
Scanno, 256
Scanzanza, 102, 117
Schwechat, 243
Schweinfurt, 237, 243, 295
Seafire a/c, 66-67, 111-12, 122, 134, 338 (n 28)
Sedes, 192

Bele, 124, 135, 172
Sele R., 52, 119-20, 124, 130-31, $135,15 \mathrm{E}, 145$
Seles A/D, 209
Eenigallia, 269
Seriate A/D, 213
Serino, 169
Serracapriola, 168, 183
Serre, 144
Sessa inurunca, 194, 196-97, 21.6, 256

Sestri Levante, 295
SEXTHIT Gonterence, 309-10
SHITGLW, 250
Sibari, 81
Sibenik, 265, 292
Sicily, 1-9, 12-15, 17-18, 26, 29-29a, 33-34, 37-3k, 43, $49-51,53,55,59,61-65$, $69-73,75-750,77,80-82$, 89-90, 95-96, 104, 1.06-07, 109, 111-12, 125-27, 129, $134,137,140,152-53,160$, 167, 178, 190, 202, 248, $251-53,254-55,295,320$, $322(\mathrm{n} 7), 337(\mathrm{n} 21), 362$ (n75)
Siderno, 96
Siena, 204
Sienal units, 75, 173
Skoplje, 208
Slesser, Air !arshal Sir John, 315
Smith, Maj. Gen. .. E., 75a, $75 \mathrm{~b}, 223-24,229,313$
Sofita, 209, 241, 248, 275-76, 297, 300
Solof'rone Creek, 52
Sora, 257, 290
Sorrento Yeninsula, 37,354 (n 37)
Sousse Sector, $1.5,328$ (a 4)
South African Air Force (GHF), $44-45,47,80,84,94,96$, $103,125,144,172,316-17$
Sonthern itteck Force, 107
Southern Task Force, 52-53, 329 (n 26)
Soveria, 118
Speatz, It. Gen. Carl, 33, 4/4, $56-58,146-47,170,218-19$, $221,223-25,227,229-30$, $235,239,241,248,271,311$, $320,353(\mathrm{n} 25), 359(\mathrm{n} 45)$, 361 (n 70) , 371 (n 54)

Spain, 4
Sparnise, 196
Special Operetions Executive (SCE), 36
Spezia, 62, 251, 189, 258, 268, 277, 300
Spezzanc, 154
Spitfire, 11-12, 45, 47, 53-54, $62,66,68,95,97,111-12$, $114-15,134-35,143,150-51$, $159 m 61,164,166,171-72,137-$ $88,191-92,190,198-200,214$, $236,247,256-57,261,287$, $289,292,328$ (n 3), 348 (n 30)
Spitfire Mark-9, 49
Split, 198, 264, 292
Spoleto, 149, 297
Staletti, 78
Steyr-Dajmler-Fuch works, 187, 243-44, 270
Stimson, Sec. of "ar, 219
Strategic Air Force (Sir), 27, $42,61-62 \mathrm{a}, 66,72,76-76$, $80,82,84,116,120,126,142$, $144,157-58,162-65,168-70$, 179, 183-84, 191-92, 194-95, 200-01, 203, 205-06, 205, 210, $214,218,220,223,226,241$, $243,249,255,265-69,274-77$, 279, 282-84, 293-95, 297-300, $306,311,313,316-17,352(\mathrm{n} 22)$
Stromboli, 72
Strong, Drig. F. iv., 75a
Stuttgart, 24.4
Sulmone, 79, 81, 260-61
Support Carrier Force, 52-53, 329 (n 26)
Suprene Allied Comander, 310
Sutri, 208
"Swamp Hunt," 284
Sweden, 368 (n 8)
Swordfish $2 / \mathrm{c}, 46,65,151$
Syracuse, 75b

## $T$

II. See under "S."

III Air Service Area Cond, 75, 339 (n 51)
3d Div, 51
3d Cp, 47
3d Fhoto Hecon Gp, 74, 238, 317
3d Etanger $\mathrm{Bn}, 329$ ( n 22 )

10 Corps (British), 32, 34, $51-53,110,116,119,124$, 126, 130 32, 135, 161, 168, 193, 329 (n 22), 341 (n 77)
12th : F , 11-12, 44, 45, 59, $61-62 a, 142,148,151,185$, $214,21.7-18,221-22,226$, $230-32,238,246-47,250$, $309,311,313,317-19,330$ (n 39), 359 (n 45)
XII Air Force Engineer Comd, 250-51
XII Air Force Service Comd, 46-47, 73, 75, 123, 172-73, $238,250,253,315,318$, 338 (n 28), 342 (n 99), 354 (n 37), 356 (n 3). See also ASO.
XII Air Force Training Comd, 47, $233,316,318$
XII A.ir Force Training and Replacement Comd, 328
XII Lir Support Cond, 45, 50, $53,59,66,68-69,74,111$, $113-14,123,126,135,160-61$, 175, 178, 211, 238, 257, 291, 305
XII Bomber Cond, 44, 59, 148, $224-25,230,232,253$, 364 (n 111)
22th Bomb Gp, 59, 35 (n 5)
XII Fighter Comd, 46, 176, 238
12th Photo Recen
XII Troop Carrier Comd, 44, 59, 316
12th \%eather Sq, 173
13th Field Artillery Brig, 51
23d Statistical Control and Gperational keport Unit ( 300 PU ), 48
31st Fighter Gp, 64, 172
33d Fighter $G p, 68,134,172,340$ (n 62), 352 (n 25), 354 (n 40)
34th Div, 51
36th Div, 110
37th Troop Carrier Sq, 59, 330 ( $n$ 39)
$38 \mathrm{HS}, 59-60$
63d rig, 293
205 Brmb Gp, 45, 316
$216 \mathrm{Gp}, 74$
$218 \mathrm{Gp}, \mathrm{Hq}, 319$
$225 \mathrm{Sq}, 135$
$232 \mathrm{ig}, 50$
$242 \mathrm{Gp}, 45,72,166,293,316$
286 w5, 354 (n 37)
301st Eomb Gp (H), 211, 232
304 th Bomb lig (H), Hq \& Hq Sq, 236
305th Borib Wg (H), 359 (n 52) $\mathrm{Ha} \& \mathrm{Hq} \mathrm{Sq}, 236$
306 th Bomb $\mathrm{Wg}(\mathrm{H})$, Hq \& Hq Sq , 236
306th Service Sg, 172
307th Bomb Fg (H), Hq \& Hq Sq, 236
310 th Bomb Gp (M), 186, 232, 316, 351 (n 1), 351 ( n 5 )
313th Troop Carrier Gp, 138
314th Troop Carrier Gp, 138
316th Iroop Carrier Gp, 59
319th Bomb Gp (M), 232, 351 (n 5)
320th Lomb Gp (M), 232, 351 (n I. 5)

320th Service Gp, 190, 253
321st Bomb Gp (K), 186, 232, 352 (n 25)
324th Fighter Gp, 58, 348 (n 43)
325th Fighter Gp, 169, 232
332d Fighter Gp, 235
336 PRik, 317
340th Bomb Gp, 59, 204, 351 (n 5), 354 (n 40)
350th Fighter Gp, 190
376th Bomb Gp (H), 11, 232, 248, 330 (n 39), 362 ( $n 98$ )
379th Bomb Sq, 186
389th Bonb Gp, 147, 347 (n 23)
Thactical Air Force (TAF), 27, 50, $65,76,78,80,83,85,95,103$, $116,120,144,158-59,163,167$, 169-70, 183, 185, 187-89, 194, $196-200,202,206,212,214$, 218, 240-41, 249, 255-56, 258-61, $263-65,275,277,282-83,286-94$, 297, 299-300, 306, 311, 317, 351. (n 6)

Tactical Bomber Force (TBF), 41, 45, 50, 61, 68, 175, 199-200, 249, 316, 352 (n 22)
Talamone, 194
Taormina, 92


Taranto, 11, 27, 49, 61-62, 79-80, 103, 129-30, 171, 174, 278, 354 (n 37)
Tarquinia, 198, 208, 257-53, 266
Tarvisio, 298
Tatoi : $/ \mathrm{D}, 286,192,297,300$
Taylor, Brig. Gen. ㄹ. D., 75c
Teano, 183, 196-97
Tedder, Lir Harshal, 20, 24, 33, $43-44,56,53,239,248,277$, $309-11,313-15,320,326$ (n 81)
Tenes, Cape, 190
Teresa, 92
Termini, 73, 107
Termoli, $149,168,183,188,191$, 195
Ternoli Sector, 18k
Terni, 79, 194, 204-05, 266, 289, 299
Terracina, 99, 184, 191, 194, 197, 256, 289-90
TIDAL ${ }^{2}$, ${ }^{2}$ W, 58
Tirana, 195, 209
Tito, 292-93
Tollo, 291-92
TOPHAT, 29-30
TOECH, 1, 5-6
Torre innunziata, $20,136-37$, 141-45, 157, 163, 16\%, 278
Torre dit Creco, $130,143,145$, 168
Tortorella, 101
Trulon, 151, 276-77
Training Cond. See XII AFTC; NaTC.
Trapani, 53, 72, 138
iratella, 197
Trebisacce, 97-98
Treg 1 io, 287
Trento, 78-79, 298
TRIDENT Conterence, $10,16-17$, 23-24, 220
Trieste, 269, 298
Trieste, 12
Trigno R., 174, 180, 191, 269
Tripoli, 107
Troop Carriex Cond, 71, 74, 75b, $211,215,218,233,293,317$, 339 (n 47). See also XII TCO; MATCG.
Tunis, 5, 31, 34, 202, 232, 315

Tunisia, 1, 3-4, 9-10, 12-14, 17, $43,55,61,64,70,74,82,89$, 167, 178, 185, 202-03, 229, 232-33, 239, 265, 361 ( $n 75$ )
Tunis Sector, 45, 72, 328 (n 4)
Turin, 243-44, 272, 295
hurin-wilan Area, 281
Turkey, 17-17a, 19, 309, 312
Tusciano, 124, 135, 166
Twining, Laj. Gen. N. F., 313, 358 (n 43), 370 ( $n$ 45)
Tyrrhenian Goast, 77
Tyrrhenian Sea, 63, 72, 151, 154, $193,293,345$ (n 127)

U
Uganda, 177
Ulster Gleen (KiS), 338 ( n 28 )
United Kingdom, $4,6,8,17 a$, $18-19,21-22,40,55-56,59$, $147,149,165,181,189,218-19$, $221-28,230,235,237,244,246$, 248, 273. See also British; England.
United Nations, 6, 23
U. S. Army lir Forces, Jorth African Theater of Operations (USidif wTO), 312, 311, 318
U. S. Army Forces in the Liddle tast (USAFTVE), CG, 312
U. S. Strategic Air Forces in Europe (USSHFE), 231, 370 (n 31) CG, 313-14
U.S.S.R., 5, 18. See also Red Army.
Ustica I., 73, 107

サ
Vada, 79
Vairano, 191, 194, 196-97, 206, 256
Valiant, 132
Vallerotonda, 290
Valmontone, 259
Varazze, 205-06
Var R., 268, 298
Vasto, 191, 195,1.98

Venafro, 196-97, 205, 216, 256, 259, 286
Venice, 79, 150, 298
Ventimiglia, 297-98
Ventotene I., 100, 111, 345 (n 127)
Verona, 150, 169, 298
Vesuvius, 168
Veazano, 266
Via Aurelia, 158 a
Vian, Rear fidmiral, 329 (n 26)
Viareggio M/Yis, 298
Vibo Valentia, 32, 54, 91
Vicenza, 300
Vichy, 181
Vichy fleet, 276
Vienna, 187, 347 (n 24)
Vietri, 52, 110, 119
Villafranca, 213
Villa Literno, 80, 86, 100-01
Villanova, 125
Villar Perose, 243-44, 272
Villicidro, 104, 202, 250
Viterbo, 62a-63, 82, 85, 100, 102, 121, 158-58a, 168, 171, 198, 208, 213, 272
Viticuso, 288
Volturara, 183
Volturno bridges, 170, 212
Volturno River, 62, 70, 117, 120, 162, 169, 174, 180, 183-84, 191, 193, 212, 326 (n 81)
Volturno Valley, 193, 196
Vrajedna, 276
w
Waco gliders, 59, 70
Walxus $\mathrm{z} / \mathrm{c}, 46,65,73,151,247$
wiarhewk a/c, 118, 187, 195, 195-200
Warspite, 132, 158, 177
Fshington, 13, 17, 223, 228, 233, 237
Teather Div, 363 (n 110)
Weather units, 173
(iebster, Brig. Gen. R. H., 253

Wellington $a / c, 44-45,61,73$, $78,80,85,99-103,104 \mathrm{a}, 111$, $125-27,136-37,142,144,149$, 151, 153, 157, 158a, 162, 165, $169,170-71,184-85,191,194$, $204-08,257,266,268,272-74$, 290,306
Nelsh, Air Marshel Milliem, 223, 225
Werke II, Wiener Neustadt, 244
fiestern Naval Task Force, 52, $68-69,112,125$
Western Naval Task Force Operation Plan Ho. 7-43 (Avon/ill), 52
Whitely, Brigadier, 41
Wiener Neustadt, 185, 187, 210-11, $243-44,254,271,301,344$ (n 110), 365 (n 11)
Wiener Neustadt/Nord airfield, 270
Williams, Brig. Gen. P. I., 44
NiLliams, Col. K. P., 4
Wilson, Ceneral, 313
ATNDSOCK, 74

## $\Psi$

Yugoslavia, 18, 150, 198, 208-10, $217,264,275,277,292-93,300$, 309
Yugoslavian Ambassador, 248
Yugoslavian flyers, $2 / 8$

2
Zara, 265, 292
Zoagli viaduct, 298
Zuckerman Report, 294-95



## THIS PAGE Declassified IAW EO12958


[^0]:    * Ras bombers had been hitting a few targets in northern Italy at irreguler intorvals slnse Avenst 1.940. However, these attaciss were too sinall and too few to be considered as a reaj/offensive against Italy.

[^1]:    * In oxder to distinguish between USAAF and RAF squadrons, a policy of omittins the "th," "st, "and "d" after the squadron number of Rar wits is followed.

[^2]:    * From Outline History, 5lst Troop Carrier wing, 17 fugust-30 September 1943.

