A CATALOGUE OF POTENTIALLY BRIGHT CLOSE BINARY GRAVITATIONAL WAVE SOURCES

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PREFACE

This document is a current print-out of the results of a survey, undertaken in the spring of 1985, to identify those known binary stars which might produce significant gravitational wave amplitudes at earth, either dimensionless strain amplitudes exceeding a threshold $h = 10^{-21}$, or energy fluxes exceeding $F = 10^{-12}$ erg cm^{-2} s^{-1}. Every effort has been made to be comprehensive in this enterprise. To this end, all real or putative binaries brighter than a certain limiting magnitude (calculated as a function of primary spectral type, orbital period, orbital eccentricity, and bandpass) are included. All double degenerate binaries and Wolf-Rayet binaries with known or suspected orbital periods have also been included.

The catalogue consists of two parts: a listing of objects in ascending order of Right Ascension (Equinox B1950), followed by an index, listing of objects by identification number according to all major stellar catalogues. The object listing is a print-out of the Microsoft *EXCEL*® spreadsheets on which the catalogue is currently maintained. It should be noted that the use of this spreadsheet program imposes some limitations on the display of entries. Text entries which exceed the cell size may appear in truncated form, or may run into adjacent columns. Greek characters are not available; they are represented here by the first two or three letters of their roman names, the first letter appearing as a capital or lower-case letter according to whether the capital or lower-case Greek character is represented. Neither superscripts nor subscripts are available; they appear here in normal position and type-face. Thus, for example, the star ψ^2 Orionis is written psi2 Ori. The index provides the Right Ascension and Declination of objects sorted by catalogue number.

It should be emphasized that this is a working document, and not a final catalogue. A number of internal inconsistencies remain to be resolved, some references are missing or incomplete, and it is likely that errors remain, despite proofreading. Obviously, estimates of many system parameters, especially absolute masses and radii, and distances, have yet to be derived, and many of the entries appearing here will be discarded, revised, or superseded. Please note as well that some of the catalogue entries are almost certainly not binary at all. In order to avoid needless duplication of effort in researching entries, I have adopted the practice never to remove an object from the catalogue once it has been entered, even though any evidence of binarity (or in some cases the very existence of the object) has been thoroughly refuted. These objects are identified in the column labeled Notes at the end of the entry.

Every effort has been made to select the best and most reliable data currently available for inclusion here. I recognize that some of my choices may be controversial, but space and time do not permit justifying my selections here. I will of course welcome new input or constructive criticisms of this work.

DESCRIPTION

CATALOGUE DESCRIPTION

Column **Description**

Name **Name by which the star is identified in this catalogue. These have been assigned in the following priority:**

GCVS – Variable star designation, as it appears in the *General Catalogue of Variable Stars*, 4th edition, or in subsequent by name-lists
Bayer – Letter designation by constellation in Bayer's *Uranometria* or Lacaille's *Coelum Australe Stelliferum*, as in common usage (Greek letter designations only)
Flamsteed – Numerical designation by constellation in Flamsteed's *Historia Coelestis Britannica*
HR – *Harvard Revised Photometry* number, the identification also used in the Yale *Bright Star Catalogue*
HD – *Henry Draper Catalogue* number (original catalogue only, without its *Extensions*)
BD – *Bonner Durchmusterung* number
CoD – *Cordoba Durchmusterung* number ($\delta_{1875} > -52°$)
CPD – *Cape Photographic Durchmusterung* number ($\delta_{1875} < -52°$)
Other designations, which ever appears in most common usage

RA(1950) **Right Ascension for Equinox 1950.0.** Where the position reference (**Pos Ref**) is a precision catalogue, or the star's proper motion is known, the position quoted corresponds to Epoch 1950.0. The precision catalogues employed here are, with the exception of the Cp00ft catalogue, all nominally on the FK4 system; no attempt has been made to correct other positions to that system.

μ(RA) **Centennial Proper Motion in Right Ascension for Equinox 1950.0** in $0^s.01$ yr^{-1}. Where a precision catalogue is identified as the position reference (**Pos Ref**), this value has been adopted or derived from that source.

Dec(1950) **Declination for Equinox 1950.0.** Where the position reference (**Pos Ref**) is a precision catalogue, or the star's proper motion is known, the position quoted corresponds to Epoch 1950.0. The precision catalogues employed here are, with the exception of the Cp00ft catalogue, all nominally on the FK4 system; no attempt has been made to correct other positions to that system.

μ(Dec) **Centennial Proper Motion in Declination for Equinox 1950.0** in $0''.01$ yr^{-1}. Where a precision catalogue is identified as the position reference (**Pos Ref**), this value has been adopted or derived from that source.

Pos Ref **Positional Reference.** The source of the position quoted in columns A and B. Where possible, they have been drawn or derived from the following precision catalogues, listed in priority order:

FK4 – *Fourth Fundamental Catalogue* (Heidelberg)
FK4Sup – *Supplement to the Fourth Fundamental Catalogue* (Heidelberg)
Per70 – *Perth Catalogue for 1970* (Heidelberg)
AGK3 – *3rd Astronomische Gesellschaft Katalog* (Hamburg)
SAO – *Smithsonian Astrophysical Observatory Catalogue* (Washington)
Cp00ft – *Cape Catalogue of Faint Stars for 1900* (Cape Observatory: FK3 system)

Where one of the above catalogues is listed in parentheses, the star in question is a member of a very close visual binary, and its position has been calculated from the catalogued position of the photocenter.

Other catalogue sources listed are identified in the **BIBLIOGRAPHY** at the end of this catalogue. Blank entries indicate, for the most part, that the position source is a study of the particular star in question. Where any of these alternative catalogues appear in parentheses (or an empty pair of parentheses appear), the position has been corrected for proper motion to Epoch 1950.0.

Column	Description
FK4	*Fourth Fundamental Catalogue* and its *Supplement.*
SRS	*Southern Reference System* (*Per70 Catalogue*).
AGK3	*3rd Astronomische Gesellschaft Catalogue.*
SAO	*Smithsonian Astrophysical Observatory Catalogue.*
GC	*General Catalogue of 33342 Stars for the Epoch 1950* (Boss: Carnegie Institution of Washington).
l	**Galactic latitude.**
b	**Galactic longitude.**
Bayer	Designation in Bayer's *Uranometria* or Lacaille's *Coelum Australe Stelliferum*, as identified and clarified in Flamsteed's *Historia Coelestis Britannica*, the Baily's *General Catalogue of 8377 Stars* (for the British Association for the Advancement of Science), and Gould's *Uranometria Argentina* (see **BIBLIOGRAPHY**). Lacaille's designations have been adopted for those southern constellations also appearing in Bayer's atlas. Roman letter designations have been retained, even when obsolete. Parentheses indicate that the constellation boundaries adopted by the IAU now place the star in a different constellation.
Flmstd	Flamsteed's *Historia Coelestis Britannicae.* Parentheses indicate that the constellation boundaries adopted by the IAU now place the star in a different constellation.
HR	*Harvard Revised Photometry* (*Bright Star Catalogue*).
HD	*Henry Draper Catalogue* or its extensions.
BD	*Bonner Durchmusterung.*
CoD	*Cordoba Durchmusterung.*
CPD	*Cape Photographic Durchmusterung.*
Var	*General Catalogue of Variable Stars*, 4th edition, plus subsequent name-lists.
Other	**Miscellaneous catalogue designations.** A complete listing of these catalogues can be found in the **BIBLIOGRAPHY** at the end of this catalogue. For the brightest stars, the classical Arabic/Latin names are are also listed, as are common X-ray source names by constellation.
Sp1	**Spectral type** (in the MK system where available) of the ***spectroscopic primary***. Where a portion or all of this assignment appears in parentheses, *e.g.* K4(IV), the enclosed features have been inferred photometrically, rather than observed directly spectroscopically. Where a spectral type appears in brackets, *e.g.* [K4IV], it has been *assumed.*
Sp2	**Spectral type** (in the MK system where available) of the ***spectroscopic secondary***. Where a portion or all of this assignment appears in parentheses, *e.g.* K4(IV), the enclosed features have been inferred photometrically, rather than observed directly spectroscopically, *given the spectral type of the primary quoted in Sp1.* Where a spectral type appears in brackets, *e.g.* [K4IV], it has been *assumed.*

Column	Description

T-JD 2400000 **Epoch.** If the binary orbit is eccentric and the longitude of periastron is known (see **ome1**), the epoch quoted is periastron; otherwise it is superior conjuction of the spectroscopic primary (see **Sp1**). No attempt has been made to correct published epochs to barycentric (or heliocentric) time when these corrections have not already been included.

P **Sidereal orbital period, in days.** A number of cataclysmic variables for which orbital periods are not known are nevertheless bright enough to merit inclusion in this catalogue. In some of these cases, an orbital period has been inferred from correlations established with other features of these systems, for example, from an outburst amplitude-color-period relation (ACP: Richter, G.A., and Bräuer, H.J. 1989, *Astr. Nachr.*, 310, 413); in these cases, the inferred orbital period is enclosed in parentheses. In other cases, a mean orbital period characteristic of the particular type of variability has been assumed; the assumed orbital period is then enclosed in brackets.

e **Orbital eccentricity.** In cases where the orbit has been *assumed* circular, the value $e = 0$ appears; a zero value quoted to more significant digits indicates that the orbit has been *confirmed* circular in the spectroscopic solution to less than one-half unit in the final decimal place. Where the annotation "phi" (ϕ) appears, the orbital eccentricity of an eclipsing binary has been inferred from the displacement and distortion of secondary eclipse, relative to primary eclipse.

ome1 **Longitude** of the spectroscopic primary (measured from ascending node) at **periastron**, in degrees. This orbital parameter is only defined when $e \neq 0$. Where the annotation "phi" (ϕ) appears, the longitude of periastron of an eclipsing binary has been inferred from the displacement and distortion of secondary eclipse, relative to primary eclipse.

V0 **Systemic heliocentric radial velocity of the binary**, in km s^{-1}. Published sources for the quoted values are given in the column labeled **Spectroscopic orbit**. Where the semi-amplitudes of both spectroscopic primary and spectroscopic secondary have been drawn from the same source, and neither semi-amplitude derives from measurements of emission-line velocities, the systemic velocity quoted here is the weighted mean of primary and secondary systemic velocities when they differ. Systemic velocities for emission-line systems (such as Wolf-Rayet binaries or cataclysmic binaries) have been adopted from their normal, absorption-line companions whenever possible. In cases where the catalogued system is a member of a triple or multiple system, and the radial velocity orbit of the catalogue binary has been determined, the value quoted here for V_0 is the systemic velocity of the *multiple*; the spectroscopic orbit of the catalogue binary center-of-mass can then be found in the **Notes** on that system.

K1 **Orbital velocity semi-amplitude of the spectroscopic primary**, in km s^{-1}. Published sources for the quoted values are given in the column labeled **Spectroscopic orbit**. Semi-amplitudes listed in parentheses have been rejected. The annotation "e" indicates that this is an emission-line semi-amplitude (this notation being omitted for Wolf-Rayet and sdBe components).

K2 **Orbital velocity semi-amplitude of the spectroscopic secondary**, in km s^{-1}. Published sources for the quoted values are given in the column labeled **Spectroscopic orbit**. Semi-amplitudes listed in parentheses have been rejected. The annotation "e" indicates that this is an emission-line semi-amplitude (this notation being omitted for Wolf-Rayet and sdBe components).

v1 sin i **Projected rotational velocity of the spectroscopic primary.** For a number of RS CVn and BY Dra systems, the rotational period can be inferred from the photometric distortions of the light curve; in these cases, an asterisk indicates that a photometric period may be found in the **Notes**. For sdBe components in cataclysmic variables, the entry appearing in this column refers to velocity widths of the emission line profiles (presumed to reflect rotation of the accretion disk), as follows:

e – half-separation of doubled emission line profiles
Sh – double-Gaussian fits to emission line wings (Shafter 1983, Ph.D. Thesis, UCLA)

Column	Description
v1 sin i (cont'd)	Wi – mean second moments (standard deviations) of emission line profiles (Williams 1983, *Ap. J. Suppl.*, 53, 523)
v2 sin i	**Projected rotational velocity of the spectroscopic secondary. For a number of RS CVn and BY Dra systems, the rotational period can be inferred from the photometric distortions of the light curve; in these cases, an asterisk indicates that a photometric period may be found in the Notes. For sdBe components in cataclysmic variables, the entry appearing in this column refers to velocity widths of the emission line profiles (presumed to reflect rotation of the accretion disk), as follows:** e – half-separation of doubled emission line profiles Sh – double-Gaussian fits to emission line wings (Shafter 1983, Ph.D. Thesis, UCLA) Wi – mean second moments (standard deviations) of emission line profiles (Williams 1983, *Ap. J. Suppl.*, 53, 523)
Spectroscopic orbit	**Source of the spectroscopic solution quoted for K1, K2, and V0. In some cases, several studies have been combined; in most cases, the orbit of the spectroscopic primary comes from the first reference, the spectroscopic secondary from the second. References list in parentheses are the sources of radial velocity measurements which have been combined here to obtain a spectroscopic orbit.**
V	**For normal binaries, this is the mean magnitude at quadrature, in the Johnson V filter except as follows:** b – Strömgren b magnitude B – Johnson B magnitude D – magnitude includes light from close visual companion. In this case, the colors listed in the following columns also include light from the visual companion. H – photovisual magnitude from Harvard Revised Photometry I – Johnson I magnitude p – photographic magnitude v – visual magnitude V – Johnson V magnitude Mean magnitudes through the entire orbital cycle are quoted for ellipsoidal variables. Light curve distortions in RS CVn, BY Dra, and FK Com variables have been averaged out. For novae and nova-like variables (including AM Her stars), and for X-ray transient sources, the magnitude quoted here corresponds to the normal quiescent, but accreting state. For dwarf novae, it is the mean magnitude at outburst *maximum*. Unless otherwise annotated, the magnitude quoted here for Wolf-Rayet stars corresponds to a line-free continuum magnitude, the narrow-band *v* magnitude in Westerlund's system.
B-V	**Johnson B-V color. In the case where the V magnitude is annotated "D", and so includes light from a close visual companion, the color quoted here also includes that companion. The annotation "D" in this column indicates that the color includes light from a close visual companion, even though the V magnitude estimate does not. In all cases, the color refers to the same photometric state as at magnitude V.** Among Wolf-Rayet stars, the color quoted here is the narrow-band *b-v* color in Westerlund's system.
U-B	**Johnson U-B color. In the case where the V magnitude is annotated "D", and so includes light from a close visual companion, the color quoted here also includes that companion. The annotation "D" in this column indicates that the color includes light from a close visual companion, even though the V magnitude estimate does not. In all cases, the color refers to the same photometric state as at magnitude V.** Among Wolf-Rayet stars, the color quoted here is the narrow-band *u-b* color in Westerlund's system.

Column	Description

R-I **Johnson R-I color.** In a few cases, the R-I color in a different broadband system is quoted:

C – Cousins
E – Eggen

In the case where the V magnitude is annotated "D", and so includes light from a close visual companion, the color quoted here also includes that companion. The annotation "D" in this column indicates that the color includes light from a close visual companion, even though the V magnitude estimate does not. In all cases, the color refers to the same photometric state as at magnitude V.

E(B-V) **Color Excess (reddening).** Unannotated figures are calculated from a comparison of observed UBVRI colors with those calculated from either (i) the observed spectral type of the spectroscopic primary combined with the photometric light curve solution, or, failing that, (ii) the observed (or deduced) spectral types of both components combined with mass-luminosity and spectral type-color relations. Where appropriate, allowance has been made for the presence of a third component. Annotations signify other bases for color excess estimates:

g – mean excess for cluster of which system is a member
i – strength of interstellar absorption lines
m - extinction maps of Th. Neckel and G. Klare (1980, *Astr. Ap. Suppl.*, 42, 251) at low galactic latitude, or of A.S. Sharov (1963, *Astr. Zh.*, 40, 900 = 1964, *Sov. Astr.*, 7, 689) elsewhere
u – 2200 Å ultraviolet absorption feature

par **Absolute parallax.** Values which carry no prefix are optical trigonometric parallaxes. Prefixes carry the following connotations:

A – Astrometric parallax (moving cluster method)
D – Dynamical parallax (visual binary orbit)
R – Radio trigonometric parallax

Cluster **Cluster or association membership.** Where the estimated distance to a system agrees with that to the cluster or association within a factor of $\sqrt{2}$, the name of the cluster or association appears unannotated; where the agreement is poorer than a factor of $\sqrt{2}$, but within a factor of 2, a question mark (?) is appended; where the distance estimates differ by more than a factor of 2, the name appears in parentheses. Names appearing in angle brackets, *e.g.* <Cas-Tau OB1>, indicate that the variable is projected against the cluster or association, but distance estimates have not yet been compared. In cases where a system appears to be a member of a cluster *within* a larger association, only the cluster name appears.

ADS Aitken's *New General Catalogue of Double Stars within 120° of the North Pole*

Vis Binary **Double star designation by discoverer:**

A – R.G. Aitken
AGC – Alvan G. Clark
Anderson – J.A. Anderson
Arg – F.W.A. Argelander
B – Willem H. van den Bos
Barnard – E.E. Barnard
BDS – Burnham's *A General Catalogue of Double Stars within 121° of the North Pole*
bet – S.W. Burnham (β)
bet pm – Burnham's measures of proper-motion stars (β pm)
BrsO – Brisbane Observatory
CapO – Cape Observatory
CHARA – Center for High Angular Resolution Astronomy

Column	Description
Vis Binary (cont'd)	CorO – Cordoba Observatory Cou – Paul Couteau Dawes – W.R. Dawes Del – J. Dunlop (Δ) del – B.H. Dawson (δ) Dem – Ercole Dembowski Dorpat – Dorpat Observatory Es – T.E.H. Espin Fox – Philip Fox Frh – R. Furuhjelm Frk – W.S. Franks GLS – h – J.F.W. Herschel H – W. Herschel HdO – Harvard Observatory Ho – G.W. Hough Howe – H.A. Howe Hu – W.J. Hussey Hynek – J. Allen Hynek hz – Wulff D. Heintz Hzg – E. Hertzsprung I – R.T.A. Innes J – Robert Jonckheere Jc – W.S. Jacob Jef – H.M. Jeffers Jsp – M.K. Jessup Knott – G. Knott Ku – F. Küstner Kui – Gerard P. Kuiper lam – T.J.J. See (λ) LDS – W.J. Luyten proper motion survey LPO – La Plata Observatory Lv – F.P. Leavenworth McA – H.A. McAlister MlbO – Melbourne Observatory OSig – Otto Struve (Pulkovo catalogue) (OΣ) OSigSig – Otto Struve (Pulkovo catalogue supplement) (OΣΣ) phi – W.S. Finsen (ϕ) R – H.C. Russell Rmk – C.L.C. Rümker Rst – R.A. Rossiter S – James South S,h – James South and J. Herschel Sei – J. Scheiner Sig – F.G. Wilhelm Struve (Σ) Smyth – W.H. Smyth Stein – J. Stein Stone – Ormond Stone Webb – T.W. Webb WNO – U.S. Naval Observatory

The annotation "(orb)" is appended where a published orbital solution for the visual binary exists (see Notes).

Column	Description

Companions Magnitudes and angular distances of **visual companions** to the close binary. Johnson UBV colors (in the order B-V, then U-B, then R-I) and spectral types are listed where known.

Vbl type **Type of Variability** of known or suspected variable stars, according to the classification scheme of the *General Catalogue of Variable Stars*, 4th edition, expanded for the cataclysmic variables as follows:

AM – magnetic cataclysmic binaries in which the white dwarf rotation is synchronously locked to the orbital period.
DQ – magnetic cataclysmic binaries with asynchronous white dwarf rotation.
SU – dwarf novae of the SU Ursae Majoris type, showing semi-regular super-outbursts, during which coherent "superhumps" typically modulate their light at a period of few percent longer than the true orbital period.
UG – dwarf novae showing only normal outbursts.
UX – novalike cataclysmics lacking either outbursts or low states.
VY – cataclysmic variables lacking distinct outbursts, but showing occasional low states.

Min I **Johnson V magnitude at mid-primary eclipse**, except for dwarf novae and magnetic cataclysmic variables. For dwarf novae, the photometric state is the mean out-of-eclipse quiescent level; for magnetic cataclysmic variables, it is the mean low-state out-of-eclipse level. Values listed in parentheses are differential magnitudes, referring to the *depth* of primary eclipse. Other annotations are:

b – Strömgren b magnitude
B – Johnson B magnitude
bet – Hβ region magnitude
p – photographic magnitude
R – Johnson R magnitude
v – visual magnitude
V – Johnson V magnitude
vbl – variable eclipse depth
y – Strömgren y magnitude

Min II **Johnson V magnitude at mid-secondary eclipse.** Values listed in parentheses are differential magnitudes, referring to the *depth* of secondary eclipse. Other annotations are:

b – Strömgren b magnitude
B – Johnson B magnitude
p – photographic magnitude
R – Johnson R magnitude
v – visual magnitude
V – Johnson V magnitude
y – Strömgren y magnitude

D **Duration of primary eclipse**, as a fraction of the orbital period. Where the duration of the secondary eclipse is also measured, it appears following the duration of primary eclipse, separated by a semicolon. Values in brackets refer not to total eclipse duration, but to the duration from mid-ingress to mid-egress, measured at the point at which one-half of the eclipsed light is lost; this notation typically refers to eclipsing cataclysmic variables.

d **Duration of totality** in primary eclipse, as a fraction of the orbital period. Where the duration of totality in secondary eclipse is also measured, it appears following that of primary eclipse, separated by a semicolon.

i **Inclination of the orbital axis** to the line of sight (in degrees). With few exceptions, the hemispherical ambiguity between i and $180° - i$ is unresolved. Unannotated entries have been adopted from the

Column	Description
i (cont'd)	references given under **Photometric solution.** Annotations carry the following significance: del – inclination derived from total system mass, as determined from visual binary orbit e – nominal estimate of orbital inclination derived using assumed mass(es) or other constraint gives sin $i > r_1+r_2$ (for masses and radii appropriate to the spectroscopic orbit or component spectral types). The eclipses which would therefore be expected are not known to occur; component masses have therefore been increased until the condition for grazing eclipses, sin $i = r_1+r_2$, is satisfied. ome – inclination derived from $v_{1,2}$ sin i, assuming a radius appropriate to the spectral type of the primary/secondary star and pseudosynchronous rotation P – inclination from polarimetry (hemisphere ambiguity usually resolved) pi – mean value (expectation) for the inclination, assuming random orientation, but with i constrained neither to be so large as to give an expectation of eclipses (for normal component radii), nor to be so small as to give masses so large for the unseen components of single-lined spectroscopic binaries that they should be spectroscopically visible (if main sequence stars) s – inclination derived on the assumption that both components have masses appropriate to their spectral types w – inclination derived from a correlation between v_d sin i/K_1 and mass ratio for cataclysmic variables, on the assumption that the donor star is a normal main sequence star Stellar masses, radii, luminosities, *etc.*, as a function of spectral type have been drawn from the tabulation by Straižys and Kuriliene (1981, *Ap. Sp. Sci.*).
r1	**Fractional radius of the spectroscopic primary,** in units of the orbital semimajor axis. Most values are drawn from published light curve solutions. The geometric mean or the volume equivalent radius is quoted for distorted components. Values in parentheses were assumed by the authors of the photometric solutions. The annotation "ome" identifies fractional radii calculated from the ratio v_1 sin $i/(K_1+K_2)$ on the assumption of pseudosynchronism (or from the stellar rotation period deduced from light curve distortions).
r2	**Fractional radius of the spectroscopic secondary,** in units of the orbital semimajor axis. Most values are drawn from published light curve solutions. The geometric mean or the volume equivalent radius is quoted for distorted components. Values in parentheses were assumed by the authors of the photometric (cont'd)solutions. The annotation "ome" identifies fractional radii calculated from the ratio v_2 sin $i/(K_1+K_2)$ on the assumption of pseudosynchronism (or from the stellar rotation period deduced from light curve distortions).
l1	**Fractional contribution of the spectroscopic primary to the total light** of the system. An asterisk (or asterisks) indicates that light from a third component is present (see **Notes**), which has been included here in the total light of the system. Most values are identified by the bandpass to which they refer, as identified in their published sources (see **Photometric solution**): B – Johnson B b – Strömgren y bol – bolometric g – instrumental green gy – instrumental green-yellow Hbet – Hβ intermediate band p – photographic R – Johnson R s – luminosity ratio from spectroscopic line ratios U – Johnson U V – Johnson V

Column	Description
l1 (cont'd)	v – visual or photovisual Y – instrumental yellow y – Strömgren y

qph **Photometric mass ratio derived from the light curve solution.** Values in parentheses denote values *assumed* in solving the light curve, or deduced here on the assumption that the secondary fills its Roche lobe.

Photometric solution **Source of the orbital inclination, i.** In most cases, this is the result of a light curve solution, other results of which are quoted for **r1, r2, l1, and qph.** In a few cases, polarimetric observations have been used to resolve the hemisphere ambiguity in the orbital inclination obtained in a light curve solution; such polarimetric studies are cited second, following the source of the light curve solution. Other techniques have also been used on occasion, as described in the sources cited in this column. References appearing in parentheses contain published light curves, but lack published solutions.

M1 **Mass of the spectroscopic primary, in solar masses.** Where possible, this has been calculated by combining the spectroscopic orbit with an independent determination of the orbital inclination. In some cases, a photometric mass ratio has been adopted, but preference is usually given to spectroscopic mass ratios where available. Other bases for mass determinations are annotated as follows:

- del – mass derived by combining the total system mass deduced from a visual binary orbit and astrometric mass ratio, with a spectroscopic (or photometric) mass ratio
- e – nominal estimate of orbital inclination derived using assumed mass(es) or other constraint gives $\sin i > r_1 + r_2$ (for masses and radii appropriate to the spectroscopic orbit or component spectral types). The eclipses which would therefore be expected are not known to occur; component masses have therefore been increased until the condition for grazing eclipses, $\sin i = r_1 + r_2$, is satisfied.
- p – mean white dwarf mass assumed appropriate to the subtype of cataclysmic variable
- s – mass-spectral type relation (Straižys & Kuriliene 1981, *Ap. Sp. Sci.*)
- s' – mass-spectral type relation modified for contact binaries. In this case, it is assumed that the spectral type is that appropriate to the effective temperature calculated by spreading the combined luminosities of both components over their combined surface areas
- w – mass derived from a correlation between $v_d \sin i/K_1$ and mass ratio for cataclysmic variables, on the assumption that the donor star is a normal main sequence star

M2 **Mass of the spectroscopic secondary, in solar masses.** This has been derived from the primary mass, when a spectroscopic or photometric mass ratio is available. Other bases for mass determinations are annotated as follows:

- c – mass derived by fitting the broad-band colors of the system to the sum of two stellar flux distributions with foreground reddening, and adopting a spectral type-mass relation for the secondary component
- d – mass difference between total system mass as deduced from a visual binary orbit with astrometric mass ratio and the adopted mass of the primary component
- del – mass difference between total system mass as deduced from a visual binary orbit with astrometric mass ratio and the adopted mass of the primary component; *or* mass derived from the magnitude and color difference between components in a photometric solution (or spectroscopic estimate of the light ratio), combined with a spectral type-mass relation
- ome – mass derived by combining the adopted mass of the primary component with the spectroscopic mass function and an orbital inclination derived on the assumption of pseudosynchronous rotation of the primary component

Column	Description
M2 (cont'd)	p – mass derived by equating the mean density of a Roche-lobe filling star at the system orbital period with that of a main sequence donor star phi – mass derived from the adopted mass for the primary combined with a photometric mass ratio pi – mass derived from the adopted mass for the primary combined with the spectroscopic mass function and a mean value (expectation) for the orbital inclination, assuming random orientation, but with i constrained neither to be so large as to give an expectation of eclipses (for normal component radii), nor to be so small as to give masses so large for the unseen components of single-lined spectroscopic binaries that they should be spectroscopically visible (if main sequence stars) s – mass-spectral type relation (Straižys & Kuriliene 1981, *Ap. Sp. Sci.*)
A	**Orbital separation** (semi-major axis) of the binary, in solar radii, as derived from the orbital period P, and the component masses M_1 and M_2.
R1	**Mean Radius of the spectroscopic primary**, in solar radii, as derived from A and r_1.
R2	**Mean Radius of the spectroscopic secondary**, in solar radii, as derived from A and r_2.
T1	**Mean Effective Temperature of the spectroscopic primary**, in units of 10^3 K, as derived from its spectral type, optical colors, or UV flux distribution.
T2	**Mean Effective Temperature of the spectroscopic secondary**, in units of 10^3 K, as derived from its observed or inferred spectral type.
log L1	**Logarithm of the Luminosity of the spectroscopic primary**, in solar luminosities, as derived from R^1 and T^1.
log L2	**Logarithm of the Luminosity of the spectroscopic secondary**, in solar luminosities, as derived from R_2 and T_2.
Distance	Distance to the system, in parsecs, annotated according to the basis (or bases) for its estimation: d – dynamical parallax (visual binary orbit) DM – pulsar dispersion measure (free electron column density) e – radio expansion parallax g – membership in cluster or association i – optical interstellar absorption line velocity structure HI – foreground neutral hydrogen absorption (radio) k – 2.2 μm magnitude of the lobe-filling donor star in a cataclysmic variable, combined with a spectral type-infrared surface brightness relationship for late-type dwarfs (after Bailey *Monthly Notices R. Astr. Soc.*) n – nova shell expansion parallax ome – stellar radius inferred from rotation velocity assuming pseudosynchronous rotation, combined with spectral type-surface brightness relation (derived from Straižys & Kuriliene 1981, *Ap. Sp. Sci.*) p – orbital period-outburst absolute magnitude relation for dwarf novae (Warner 1987, *Monthly Notices R. Astr. Soc.*) phi – photometric solution combined with spectral type-surface brightness relation (derived from Straižys & Kuriliene 1981, *Ap. Sp. Sci.*) pi – trigonometric parallax s – spectral type-absolute magnitude relation for system components (Straižys & Kuriliene 1981, *Ap. Sp. Sci.*)

Column	Description
Distance (cont'd)	s' – spectral type-absolute magnitude relation applied to a common proper motion companion t – nova absolute magnitude-rate of decline relation WB – Wilson-Bappu luminosity calibration
U	Space velocity of the system in the radial direction from the galactic center, in km s^{-1}, referred to the local standard of rest.
V	Space velocity of the system in the azimuthal direction (direction of galactic rotation), in km s^{-1}, referred to the local standard of rest.
W	Space velocity of the system in the polar direction (toward the North Galactic Pole), in km s^{-1}, referred to the local standard of rest.
Notes	Miscellaneous notes. Features commonly recorded here include evidence or studies establishing that a system is single, and not binary; the spectroscopic magnitude difference between components (Δ m); intrinsic variability of components; visual binary orbit; third light contribution (l_3); apsidal period (U); alternative light curve solutions (where only approximate solutions have been published); pulsar dispersion measure; component photometric (P_{phot}) or rotation (P_{rot}) periods; component effective temperatures or relative temperature differences ($T_{1,2}$); component gravities (log $g_{1,2}$); stellar angular diameters ($\theta_{1,2}$); colors in eclipse; quadratic terms in the orbital ephemeris; 2.2μm magnitude of the secondary component of a cataclysmic variable (K_2); position angle of ascending node (Ω_1) from polarimetry.

CATALOGUE

Name	RA(1950)	μ(RA)	Dec(1950)	μ(Dec)	Pos Ref	FK4	SRS	AGK3	SAO	GC	l	b
BC Psc	00 02 46.530	-0.077	-05 59 13.96	+9.36	FK4	1002	31002		128572	59	093.75	-65.93
HD 108	00 03 26.837	-0.27	+63 24 05.25	+0.8	AGK3			+63°0004	010973	85	117.93	+01.25
V640 Cas	00 03 37.946	+3.23	+58 09 29.61	+5.6	AGK3			+58°0010	021085	88	117.03	-03.92
alp And	00 05 47.841	+1.038	+28 48 52.12	-15.83	FK4	1	30001	+28°0011	073765	127	111.73	-32.84
bet Cas	00 06 29.735	+6.787	+58 52 26.77	-17.66	FK4	2		+58°0016	021133	147	117.52	-03.27
WW Cet	00 08 51.66	+0.07	-11 45 25.3	+1.2	(W83)						090.00	-71.74
BD +13°13	00 09 54.612	+2.13	+14 17 11.48	-7.1	AGK3			+14°0009	091772	217	108.98	-47.25
gam Peg	00 10 39.447	+0.017	+14 54 20.57	-0.74	FK4	7	30007		091781	238	109.43	-46.68
MT Cas	00 12 06.		+54 23		GCVS						117.59	-07.83
UU Psc	00 12 24.138	+0.61	+08 32 35.70	-2.4	Per70		40041	+8°0021	109088	287	107.86	-52.98
SZ Scl	00 13 15.51		-31 22 22.2		AC						003.81	-81.26
GU Cas	00 13 44.82		+56 04 07.1		PI77						118.04	-06.20
AQ Tuc	00 15 02.39		-72 11 36.7		LG90						306.66	-44.96
AO Cas	00 15 03.362	-0.21	+51 09 19.72	+1.3	AGK3			+51°0029	021273	345	117.59	-11.09
HD 1383	00 15 34.860	+0.15	+61 26 58.48	+1.4	AGK3			+61°0018	011092		119.02	-00.89
HP And	00 16 31.		+41 11 24.		GCVS						116.46	-21.00
TV Cas	00 16 36.071	+0.55	+58 51 41.93	+1.2	AGK3			+58°0036	021296		118.81	-03.48
CN And	00 17 52.099	-0.15	+39 56 57.05	-3.0	AGK3			+39°0030			116.56	-22.26
V592 Cas	00 18 10.327		+55 25 38.39		AC						118.60	-06.91
LR And	00 20 12.269	+0.73	+29 10 38.27	+0.2	AGK3			+29°0044	073938	450	115.50	-33.00
BE Cet	00 20 18.035	+2.66	-12 29 14.89	+6.5	SAO				147237	452	097.34	-73.64
HR 91	00 21 33.308	+0.06	+51 44 34.74	+0.7	AGK3			+51°0039	021366	476	118.68	-10.63
PSR 0021-72A	00 21 53.		-72 21								305.90	-44.89
PSR 0021-72E	00 21 53.		-72 21								305.90	-44.89
PSR 0021-72J	00 21 53.		-72 21								305.90	-44.89
HD 2019	00 22 01.773	+0.22	+31 05 46.92	-0.9	AGK3			+31°0029	053870	482	116.25	-31.15
AG Phe	00 24 26.984	+0.57	-40 09 29.29	-3.0	SAO				215098		323.14	-76.27
HR 104	00 25 31.854	+0.760	+44 07 05.34	-1.08	FK4Sup	2027		+44°0063	036390	546	118.57	-18.28
PG 0027+260	00 27 27.8		+26 00 48.		PG						116.99	-36.34
V381 Cas	00 30 07.26		+49 03 06.6		PI77						119.82	-13.43
ZZ Cas	00 30 38.86		+62 14 07.9		PI77						120.86	-00.29
13 Cet A	00 32 40.390	+2.74	-03 52 04.29	-2.0	Per70		40096		128839	696	112.89	-66.15
HD 3264	00 33 30.247	-0.11	+48 16 50.29	+1.4	AGK3			+48°0061	036504	713	120.34	-14.24
RT Scl	00 33 59.099	-0.14	-25 56 55.09	+5.5	SAO				166406		055.39	-86.34
pi And	00 34 12.186	+0.127	+33 26 39.75	-0.01	FK4	18	30018	+33°0065	054033	729	119.47	-29.05

Name	RA(1950)	μ(RA)	Dec(1950)	μ(Dec)	Pos Ref	FK4	SRS	AGK3	SAO	GC	l	b
HD 3405	00 34 14.124	+3.78	-49 24 20.25	-13.0	SAO				215165	730	309.37	-67.81
V523 Cas	00 37 17.628		+49 57 53.84		AC						121.07	-12.59
HV And	00 38 10.		+43 07		GCVS						120.90	-19.44
LL And	00 39 12.		+26 21		GCVS						120.28	-36.20
V486 Cas	00 39 48.850	-0.11	+52 03 48.22	+0.7	AGK3			+52°0068	021646	841	121.56	-10.51
FF And	00 40 04.69		+35 16 25.1		PI77						120.94	-27.29
rho Tuc	00 40 20.698	+0.988	-65 44 32.93	+5.07	FK4Sup	2047	40124		248237	851	304.43	-51.63
pi Cas	00 40 41.378	-0.09	+46 45 04.98	+0.2	AGK3			+46°0092	036602	856	121.52	-15.82
omi Cas	00 41 55.654	+0.191	+48 00 40.00	-0.26	FK4	25		+48°0071	036620	882	121.78	-14.57
YZ Cas	00 42 18.429	-0.432	+74 42 54.68	-1.94	FK4	24		+74°0016	004216	891	122.55	+12.12
CW Cas	00 42 54.38	-0.11	+62 48 45.5	+1.0	(PI77)						122.31	+00.22
23 Cas	00 44 23.261	+0.25	+74 34 30.08	+1.0	AGK3			+74°0018	004226	934	122.69	+11.98
zet And	00 44 40.968	-0.726	+23 59 43.95	-7.77	FK4	27	30027	+23°0072	074267	940	121.74	-38.59
GX Cas	00 45 59.		+56 36 36.		GCVS						122.58	-05.99
eta Cas	00 46 03.907	+13.92	+57 33 02.76	-54.5	AGK3			+57°0081	021732	962	122.60	-05.05
64 Psc	00 46 20.792	-0.014	+16 40 15.74	-20.03	FK4	1020	31020	+16°0075	092099	968	122.09	-45.92
nu And	00 47 02.830	+0.179	+40 48 25.23	-1.61	FK4	1021		+40°0074	036699	989	122.60	-21.79
AB 3	00 48 14.2		-73 38 22.								303.07	-43.76
AzV 73	00 48 39.8		-73 19 37.								303.03	-44.08
KL Cas	00 48 43.79		+58 35 34.4		PI77						122.97	-04.01
V452 Cas	00 49 24.795		+53 35 26.75		BFW87						123.07	-09.00
CF Tuc	00 51 26.650	+6.30	-74 55 23.30	+2.8	SAO				255716	1077	302.78	-42.48
HV 1620	00 52 54.4		-72 48 23.		SMV						302.59	-44.59
VV Cet	00 53 11.		-02 22 00.		GCVS						125.47	-64.95
HR 266	00 53 45.153	+0.24	+60 05 33.50	+0.8	AGK3			+60°0107	011484	1120	123.59	-02.50
NSV 00349	00 53 46.		+22 47		NSV						124.43	-39.80
HD 5638	00 55 51.685	+0.12	+46 46 01.03	+1.0	AGK3			+46°0116	036817	1169	124.22	-15.82
HV 1761	00 56 42.4		-72 21 48.		SMV						302.17	-45.02
U Cep	00 57 44.960	+0.82	+81 36 24.67	+0.1	AGK3			+81°0022	000168	1202	123.34	+19.01
HD 5980	00 57 45.98		-72 26 04.8								302.07	-44.95

Name	Bayer	Flmstd	HR	HD	BD	CoD	CPD	Var	Other
BC Psc		33 Psc	3	28	-6°6357			BC Psc	(5H Cet); 63G Psc; IRC -10002
HD 108				108	+62°2363				CSV 102301; LS I +63°39; MWC 1; NSV 00
V640 Cas			5	123 A	+57°2865			V640 Cas	Gl 4.1A
alp And	alp And	21 And	15	358	+28°0004			alp And	Alpheratz; 12H And; IRC +30004
bet Cas	bet Cas	11 Cas	21	432	+58°0003			bet Cas	3H Cas; AFGL 21; Gl 8; IRC +60004
WW Cet								WW Cet	2.1937; CSV 14; HV 8002; P 2433; PHL 718
BD +13°13					+13°0013				G 30-52; LTT 10065; RE 001227+143324; X
gam Peg	gam Peg	88 Peg	39	886	+14°0014			gam Peg	Algenib; 37H Peg; CSV 100009; Zi 3
MT Cas								MT Cas	CSV 25; S 4671
UU Psc		35 Psc	50	1061	+8°0019			UU Psc	70G Psc; INCA 1004
SZ Scl						-31°00076		SZ Scl	HV 6427
GU Cas								GU Cas	422.1937; SVS 825
AQ Tuc				1372		-72°00013	-72°00023	AQ Tuc	BV 423
AO Cas			65	1337	+50°0046			AO Cas	
HD 1383				1383	+60°0025				LS I +61°135
HP And								HP And	CSV 34; SVS 71; Zi 8
TV Cas				1486	+58°0030			TV Cas	45.1911
CN And					+39°0059			CN And	CSV 38; S 4704
V592 Cas								V592 Cas	LS I +55°8
LR And				1826	+28°0049			LR And	
BE Cet		9 Cet	88	1835	-13°0060			BE Cet	37G Cet; Gl 17.3; INCA 2003; SVS 2591
HR 91			91	1976	+51°0062				CSV 102323; NSV 00155
PSR 0021-72A									PSR 0021-72A
PSR 0021-72E									PSR 0021-72E
PSR 0021-72J									PSR 0021-72J
HD 2019				2019	+30°0055				
AG Phe				2320		-40°00085	-40°00032	AG Phe	BV 1488
HR 104			104	2421	+43°0092				17H And
PG 0027+260									PG 0027+260
V381 Cas					+48°0162			V381 Cas	BV 179
ZZ Cas								ZZ Cas	5.1925; SVS 54
13 Cet A		13 Cet A	142	3196 A	-4°0062				54G Cet A; CSV 100041; Gl 23A; NSV 0021
HD 3264				3264	+47°0145				
RT Scl						-26°00179	-26°00043	RT Scl	43.1908; HV 3085
pi And	pi And	29 And	154	3369	+32°0101				19H And; NSV 00227

Name	Bayer	Flmstd	HR	HD	BD	CoD	CPD	Var	Other
HD 3405				3405		-49°00141	-49°00079		61G Phe; Gl 24A
V523 Cas								V523 Cas	CSV 5867; Wr 16
HV And								HV And	S 10777
LL And								LL And	
V486 Cas				3950	+51°0133			V486 Cas	SVS 1806
FF And					+34°0106			FF And	Gl 29.1
rho Tuc	rho Tuc		187	4089		-66°00033	-66°00047		62G Tuc
pi Cas	pi Cas	20 Cas	184	4058	+46°0146				14H Cas; CSV 100055; NSV 00268; Zi 34
omi Cas	omi Cas	22 Cas	193	4180	+47°0183			omi Cas	15H Cas; MWC 8
YZ Cas		21 Cas	192	4161	+74°0027			YZ Cas	
CW Cas								CW Cas	424.1937; SVS 827
23 Cas		23 Cas	208	4382	+74°0029				(42H Cep)
zet And	zet And	34 And	215	4502	+23°0106			zet And	25H And; AFGL 4052S; INCA 2011; IRC +
GX Cas								GX Cas	3.1943; S 3330
eta Cas	eta Cas	24 Cas	219	4614	+57°0150				17H Cas; AFGL 112; Gl 34A; IRC +60019
64 Psc		64 Psc	225	4676	+16°0076				Gl 34.1
nu And	nu And	35 And	226	4727	+40°0171				26H And
AB 3									AB 3; AzV 60A; L 143
AzV 73									AzV 73
KL Cas								KL Cas	SVS 936
V452 Cas								V452 Cas	AFGL 4058S; S 10453
CF Tuc				5303		-75°00026	-75°00068	CF Tuc	BV 625; INCA 1008; NSV 00337; X0061-749
HV 1620									HV 1620
VV Cet					-2°0127			VV Cet	CSV 108
HR 266			266	5408 A	+59°0146				
NSV 00349									NSV 00349; SVS 1669
HD 5638				5638	+46°0215				
HV 1761									HV 1761
U Cep				5679	+81°0025			U Cep	
HD 5980				5980					AB 5; ARM 33; AzV 229; Florsch 382; Hen

Name	Sp1	Sp2	T-JD 2400000	P	e	omel	V0	K1	K2	v1 sin i	v2 sin i
BC Psc	K0IIIbCN-0.5		22530.330	72.93	0.272	337.71	-6.56	16.43		10	
HD 108	O6f?pe		26259.453	5.7937	0	-	-70.3	8.6		115	
V640 Cas	G5V	[M8V]	45270.66	1.0818977	0	-	+11.66	3.89			
alp And	B8IVpHgMn	(A1V)	47374.77	96.6960	0.527	77.31	-11.6	30.8		56*	
bet Cas	F2III-IV			27?						70	
WW Cet	sdBe	(M3V)	45938.9965	0.17578	0	-	-4.	108	222	642 Sh;576 Wi	
BD +13°13	G4Vwle		44995.6	1.84422	0.007	11.14	-9.9	63.1			
gam Peg	B2IV	[M6V]	34677.328	6.830713	0	-	+2.50	1.34		3	
MT Cas	[G4]	(G0)	44941.5925	0.31387768							
UU Psc	F1IV-V	F1IV-V	39765.175	0.841678	0	-	+2.6	89.9	96.8	90	
SZ Scl	[G4]	(G2)	44406.8677	0.32082757							
GU Cas	OB [B2V]	(B6.5V)	41181.458	3.093391							
AQ Tuc	F3/5V	(F3V)	40477.7743	0.59484267	0	-	+20.6	88.5	250		
AO Cas	O9.5III	O8V	33850.687	3.523487	0.0	-	-31.1	228.2	155	130	129
HD 1383	B0-0.5Ib	B0-0.5Ib	45918.41	20.2819	0.051	178	-35.8	113.7	116.6	75	75
HP And	(sdBe:)			[0.108]							
TV Cas	B9V	(G6IV)	44602.4534	1.8125956	0	-	+0.54	87.92	(149.6)	78	
CN And	F8V		33570.48113	0.4627945							
V592 Cas	Oep			[0.182]							
LR And	A3Vm	[K4V]	29188.948	1.432322	0.024	202	+4.43	53.40			
BE Cet	G3V			7.66						6	
HR 91	B5IV		43840.3	25.44	0.14	165	-15.8	23.4		230	
PSR 0021-72A	psr		47214.8606	0.022477830	0.32	248	-	2.19			
PSR 0021-72E	psr		47862.55	2.220000000	<0.08	-	-	19.6			
PSR 0021-72J	psr		48124.3848	0.120665	<0.03	-	-	7.32			
HD 2019	B8VpHg	[A5V]	31731.970	3.11276	0.026	339	+4.76	79.6	134.7		
AG Phe	A9V	(G9V)	44170.79481	0.75533809							
HR 104	A2Vs	[K4V]	18841.59	3.95583	0.152	233.2	+2.04	41.7		36	
PG 0027+260	sdBe		47783.798	0.1463533	0	-	-	162			
V381 Cas	B3	(B3)	44546.297	1.7459455							
ZZ Cas	B3V	B9(IV)	33437.154	1.243527	0.2	330	-45.	93			
13 Cet A	F7V	[M3V]	43400.9725	2.08200	0.0	-	+10.6	44.4		24	
HD 3264	B2V	[F0V]	31673.550	13.504	0.507	152.35	-5.15	23.65			
RT Scl	F2V	(K2V)	43450.6332	0.51156012	0	-	+30.6	105.2	243		
pi And	B5V [Ia]	B5V [II]	27898.567	143.6065	0.562	349.03	+8.35	47.50	117.4	34	

Name	Sp1	Sp2	T-JD 2400000	P	e	omel	V0	K1	K2	v1 sin i	v2 sin i
HD 3405	G3V	G8V	30001.577	3.7418	0.0052	12.77	-2.97	84.88	86.77		
V523 Cas	K5V	K5V	46708.7712	0.23369145	0	-	-3.	96	231		
HV And	sdBe			0.055994:							
LL And				[0.104]							
V486 Cas	B1V	B2III	44926.879	5.54290	0.0	-	-82.51	34.85	76.98	40	10
FF And	M1Ve	M1Ve	42708.359	2.170304	0	-	-0.47	72.1	74.3	*	
rho Tuc	F5V	F7V	19299.110	4.820223	0.024	269.31	+14.1	26.1		0	
pi Cas	A5V	[A5V]	27536.231	1.964180	0.000	-	+12.86	120.46	122.13	58	63
omi Cas	B5IVe			1.168265?						220	
YZ Cas	A2IVpSr	F2V	28733.4218	4.467224	0.00	-	+8.14	73.35	125.7	25	
CW Cas	G8Vp (G6V)	(K0V)	41649.40322	0.3188449							
23 Cas	B8IIIpHgMn		20577.41	33.75	0.405	269.71	-4.06	16.32		4	
zet And	K1IIe	(F8V)	32751.617	17.7692	0.0	-	-23.71	26.33		41	
GX Cas				(0.334 ACP)							
eta Cas	G0V	-	39065.14	9.209?	-	-	+9.2	0		<=6	
64 Psc	F8V	F8V	41934.202	13.824581	0.243	199.6	+4.06	57.53	58.77	<17	<17
nu And	B5V	F8V	18155.67	4.282728	0.03	25	-23.6	71.7	101.9	80	11
AB 3	WN3	O4:	44985.	>~6.	0	-	+223.	>~100.	>~50:		
AzV 73	B0III:	O9V		4.6068	0	-	+241.	153	151		
KL Cas	OB [B0]	(B3)	31056.004	2.447426							
V452 Cas				[0.224]							
CF Tuc	G0V	K4IV	45606.9165	2.797672	0	-	-0.4	96.7	86.3	*	
HV 1620	O9III-V	(B1II-III)	46426.468	3.626408	0	-					
VV Cet	A5V	(A6)	31328.483	0.522390							
HR 266	B9IVnMnHg	[A2V]	42968.4	4.2424	0.46	76.7	-3.2	88.2	121.5	178	
NSV 00349			40526.319	0.25564							
HD 5638	B5[III]s	[B8V]	28013.922	10.418	0.132	20.9	-12.9	64.3			
HV 1761	(B1V)	(B1.5V)	23596.901	1.471125	0	-					
U Cep	B7/8V	G8III/IV	44541.6031	2.4930475	0.0	-	+16.8	125.1	188.7	310	
HD 5980	O7:	WN3	43162.0	19.266	0.324 phi	133. phi	+184:	190	205		

Name	Spectroscopic orbit
BC Psc	Harper, W.E. 1926, Pub DAO, 3, 341
HD 108	Aslanov, A.A., Barannikov, A.A. 1989, Pis'ma AZh, 15, 732 (1990 Sov. Astr. Lett., 15, 316); Hutchings, J.B. 1975, ApJ, 200, 122
V640 Cas	(Abt, H.A. 1970, ApJ Suppl., 19, 387; Abt, H.A., Sanwab, N.B., Levy, S.G. 1980, ApJ Suppl., 43, 549; Beavers, W.I., Eitter, J.J. 1986, ApJ
alp And	Aikman, G.C.L. 1976, Pub DAO, 14, 379; Pan, X., Shao, M., Colavita, M.M., Armstrong, J.T., Mozurkewich, D., Vivekanand, M., Denison,
bet Cas	
WW Cet	Hawkins, N.A., Smith, R.C., Jones, D.H.P. 1990, Accretion-Powered Compact Binaries, p. 113
BD +13°13	Latham, D.W., Mazeh, T., Carney, B.W., McCrosky, R.E., Stefanik, R.P., Davis, R.J. 1988, AJ, 96, 567
gam Peg	Harmanec, P., Koubsky, P., Krpata, J., Zdarsky, F. 1979, IBVS 1590
MT Cas	
UU Psc	Cester, B. 1959, Trieste Contr., No. 291 = Mem SAI, 30, 229
SZ Scl	
GU Cas	
AQ Tuc	Hilditch, R.W., King, D.J. 1986, MN, 223, 581
AO Cas	Stickland, D.J., Lloyd, C. 1988, Obs., 108, 174; Gies, D.R., Wiggs, M.S. 1991, ApJ, 375, 321
HD 1383	Hill, G., Fisher, W.A. 1986, Pub DAO, 16, 193
HP And	
TV Cas	Plaskett, J.S. 1922, Pub. DAO, 2, 141
CN And	
V592 Cas	
LR And	Tanner, R.W. 1949, Pub. DDO, 1, 473
BE Cet	
HR 91	Abt, H.A., Gomez, A.E., Levy, S.G. 1990, ApJ Suppl., 74, 551
PSR 0021-72A	Ables, J.G., McConnell, D., Jacka, C.E., McCulloch, P.M., Hall, P.J., Hamilton, P.A. 1989, Nature, 342, 158
PSR 0021-72E	Manchester, R.N., Lyne, A.G., Robinson, C., D'Amico, N., Bailes, M., Lim, J. 1991, Nature, 352, 219
PSR 0021-72J	Manchester, R.N., Lyne, A.G., Robinson, C., D'Amico, N., Bailes, M., Lim, J. 1991, Nature, 352, 219
HD 2019	Heard, J.F. 1949, Pub. DDO, 1, 487
AG Phe	
HR 104	Udick, S. 1912, Pub Allegheny Obs., 2, 191
PG 0027+260	Thorstensen, J.R., Ringwald, F.A., Wade, R.A., Schmidt, G.D., Norsworthy, J.E. 1991, AJ, 102, 272
V381 Cas	
ZZ Cas	Struve, O. 1947, ApJ, 106, 92
13 Cet A	Mayor, M., Mazeh, T. 1987, AAp., 171, 157
HD 3264	Sharp, W.T. 1949, Pub DDO, 1, 499
RT Scl	Hilditch, R.W., King, D.J. 1986, MN, 223, 581
pi And	Pearce, J.A. 1936, PASP, 48, 214

Name	Spectroscopic orbit
HD 3405	Laing, J.D., et al. 1962, ROB, No. 61
V523 Cas	Milone, E.F., Hrivnak, B.J., Fisher, W.A. 1985, AJ, 90, 354
HV And	
LL And	
V486 Cas	Gies, D.R., Bolton, C.T. 1986, ApJ Suppl., 61, 419
FF And	Bopp, B.W., Fekel, F. 1977, PASP, 89, 65
rho Tuc	Neubauer, F.J. 1929, PASP, 41, 371
pi Cas	Mannino, G., Grubbisich, C. 1956, Mem. SAI, 27, 65 = Asiago Contr. No. 65
omi Cas	(Harmanec, P. 1987, BAC, 38, 283)
YZ Cas	Lacy, C.H. 1981, ApJ, 251, 591
CW Cas	
23 Cas	Young, R.K. 1915, Pub Dominion Obs., 2, 181
zet And	Gratton, L. 1950, ApJ, 111, 31
GX Cas	
eta Cas	Morbey, C.L., Griffin, R.F. 1987, ApJ 317, 343; McMillan, R.S., Smith, P.H. 1987, PASP, 99, 849
64 Psc	Nadal, R., Ginestet, N., Carquillat, J.M., Pedoussaut, A. 1979, AAp Suppl., 35, 203
nu And	Abt, H.A., Levy, S.G. 1978, ApJ Suppl., 36, 241
AB 3	Moffat, A.F.J. 1988, ApJ, 350, 766
AzV 73	Niemela, V.S. 1988, Progr. Opp. S. Hemisphere Optical Astr., ed. V.M. Blanco, M.M. Phillips (Provo: ASP), p. 381
KL Cas	
V452 Cas	
CF Tuc	Collier-Cameron, A., Lloyd Evans, T., Balona, L. 1988, MN, in press
HV 1620	
VV Cet	
HR 266	Fekel, F.C. 1979, PhD Thesis, U. Texas
NSV 00349	
HD 5638	Shajn, G.A. 1937, Pulkovo Circ., No. 21, p. 31
HV 1761	
U Cep	Rafert, J.B., Markworth, N.L. 1991, ApJ, 377, 278
HD 5980	Niemela, V.S. 1988, in Progr. Opp. S. Hemisphere Optical Astr. (Provo: ASP), p. 381

Name	V	B-V	U-B	R-I	E(B-V)	par	Cluster	ADS	Vis Binary	Companions
BC Psc	4.61	+1.04	+0.89	+0.54		0.014				7.5v, 0.002"
HD 108	7.40	+0.17	-0.79		0.49		Cas OB5			
V640 Cas	5.96 D	+0.67	+0.20		0.00	0.047;	(61 Cyg)	61 A	Sig 3062 A (orb)	7.19, dG8, 1.432", P=106.83y
alp And	2.06	-0.11	-0.46	-0.10	0.00	0.0258		94 A	H V 32 A	11.2,80"
bet Cas	2.27	+0.34	+0.11	+0.20		0.072		107 A	AGC 15 A	13.6, 31.3"
WW Cet	9.3 v	0.00	-0.72		0.00 u					
BD +13°13	8.59	+0.81	+0.27							
gam Peg	2.83	-0.23	-0.87	-0.19	0.01	-0.002			bet pm A	11.8, 163.4";12.4,165.0"
MT Cas	13.3 B									
UU Psc	6.01	+0.31	+0.04		0.00	0.0167;	D0.006	191 A	Sig 12 A	7.62V,dA7,12"
SZ Scl	12.30	+0.68	+0.08							
GU Cas	11.70 B									
AQ Tuc	9.93	+0.40	+0.18		0.00		(SMC)			
AO Cas	6.07	-0.13	-0.97							
HD 1383	7.63	+0.26	-0.68		0.53		Cas OB4?			
HP And	10.5 p				0.04 m					
TV Cas	7.22	+0.07			0.13					
CN And	9.62	+0.45								
V592 Cas	12.79	+0.07	-0.79		0.07					
LR And	6.898	+0.1		+0.08	0.01					
BE Cet	6.39	+0.66	+0.24	+0.335C		0.049	Hyades gp		bet pm A	11.8v, 202.1"
HR 91	5.57	-0.12	-0.60			D0.004	Cas-Tau OB1	328 A	Hu 506 A (orb)	8.0, 0.2"
PSR 0021-72A					0.04		(NGC 104)			
PSR 0021-72E					0.04		NGC 104			
PSR 0021-72J					0.04		NGC 104			
HD 2019	6.74				0.13 m					8.0,0.2"
AG Phe	8.871	+0.324	+0.051		0.03					
HR 104	5.17	+0.03	-0.01		0.00	0.013				
PG 0027+260	14.95	+0.22	-0.79							
V381 Cas	10.2 p									
ZZ Cas	11.0 v						Cas OB4			
13 Cet A	5.20 D	+0.56	+0.08	+0.316C	0.00	0.060;D0.049		490 A	Ho 212 A (orb); bet	6.3,G4V,0.20"
HD 3264	7.52	-0.04	-0.62		0.25					
RT Scl	10.18	+0.36	-0.07		0.00					
pi And	4.36	-0.14	-0.55	-0.12	0.04	-0.003		513 A	H V 17 A; BDS 263	del m=4.2, A5, 35.2"; 11.4v, 55"

Name	V	B-V	U-B	R-I	E(B-V)	par	Cluster	ADS	Vis Binary	Companions
HD 3405	6.78	+0.64		+0.21E	0.00	0.039			LDS 21 A	8.40V,G8IV,330"
V523 Cas	10.59	+1.07	+0.82	+0.64	0.00					
HV And	15.9 B				0.08 m					
LL And	13. v				0.17 m					
V486 Cas	6.91	+0.12	-0.68		0.37					
FF And	10.38	+1.38	+1.09	+1.15	0.00	0.047				
rho Tuc	5.39	+0.50	+0.02		0.04	0.038				
pi Cas	4.94	+0.18	+0.09		0.01	0.023				
omi Cas	4.54	-0.07	-0.51	-0.05			Cas-Tau OB1	622 A	bet 231 A	11.7, 33.6"
YZ Cas	5.66	+0.05	+0.07		0.00			624 A	H IV 122 A	11.23,35"
CW Cas	11.02				0.04 m					
23 Cas	5.41	-0.08	-0.39							
zet And	4.06	+1.12	+0.90	+0.59	0.07	0.037			bet pm A	
GX Cas	13.9 p									
eta Cas	3.44	+0.57	+0.03	+0.36	0.00	0.176;D0.177		671 A	Sig 60 A (orb)	7.51,K4Ve,11.994"
64 Psc	5.07	+0.51	0.00		0.00	0.047			bet pm A	
mu And	4.53	-0.15	-0.58	-0.15	0.01					
AB 3	14.55	-0.14			0.055		SMC			
AzV 73	14.08:	-0.17:	-0.91				L 42?; SMC			
KL Cas	11.75 p									
V452 Cas	14. p				0.20 m					
CF Tuc	7.47	+0.735	+0.18	+0.45C		0.0125				
HV 1620	14.44	-0.15	-0.96		0.15		SMC			
VV Cet	10.3 p									
HR 266	5.55 D	-0.07	-0.32		0.00	D0.007		784 A	bet 1099 A (orb)	6.6,B9V,0.252"
NSV 00349	10.1 v									
HD 5638	6.85	-0.11	-0.57		0.01					
HV 1761	15.35 p				0.11 m		SMC			
U Cep	6.92	-0.11	-0.43					830 A	Knott 1 A	11.83B,13.9";12.3,23.0"
HD 5980	11.61	-0.22	-0.20		0.07		NGC 346; SMC			

Name	Vbl type	Min I	Min II	D	d	i	rI	r2	II	qph
BC Psc	RS								0.91 s	
HD 108	-									
V640 Cas	E:					51.75 pi				
alp And	ACV					105.66			0.862 V	
bet Cas	DSCTC									
WW Cet	UG	15.71				43.79 w				
BD +13°13										
gam Peg	BCEP					52.39 pi				
MT Cas	EW/KW	14.13 B	14.02 B		0.04	83.5	0.429	0.291	0.65 B	0.56
UU Psc	ELL/DW:	6.05	6.04			38.	0.33	0.33		
SZ Scl	EW/KW	13.68 B	13.68 B			80.	0.445	0.295	0.68 B	0.48
GU Cas	EA	12.64 B	11.70 B	0.10	0.00	89.5	0.245	0.146	0.90 p	0.45
AQ Tuc	EW	10.45	10.44			74.6	0.500	0.322	0.6919 bol	
AO Cas	ELL/KE	6.24	6.24			61.1	0.338	0.259	0.635 bol	(1.47)
HD 1383						51.33 s	0.321 ome	0.321 ome		
HP And	UG:	> 14.5 p				57.63 pi				
TV Cas	EA/SD	8.22	7.34	0.18	0.01	78.4	0.279	0.318	0.937 bol	0.47
CN And	EW/KW	10.15	9.90			70.33	0.482	0.345	0.8800 V	0.450
V592 Cas	NL	(0.4:)				57.63 pi				
LR And	ELL	(0.03)	(0.03)			52.30 pi	0.321			
BE Cet	BY	(0.05)								
HR 91	E:									
PSR 0021-72A						0.38				
PSR 0021-72E										
PSR 0021-72J										
HD 2019						60.61 s				
AG Phe	EA/KE:	9.36	8.95		0.22	87.5	0.416	0.223	0.952 V	
HR 104						57.68 pi				
PG 0027+260		15.37 vbl		[0.068]						
V381 Cas	EA/DM	10.8 p	10.8 p			87.	0.293	0.293	0.50 p	1.0
ZZ Cas	EB/KE	11.6 p	11.2 p	0.25	0.000	74.	0.420	0.279	0.83 p	0.33
13 Cet A	-					72.57 ome				
HD 3264						52.87 pi				
RT Scl	EB/SD:	10.89	10.47			80.7	0.444	0.282	0.9169 bol	
pi And	-					77.62	0.071 ome		0.949 s	

Name	Vbl type	Min I	Min II	D	d	i	rI	r2	II	qph
HD 3405						81.68 se				
V523 Cas	EW/KW	11.40	11.29			83.7	0.437	0.340	0.555 V	0.571
HV And	IA					51.15 pi				
LL And	UG:	> 17.				57.63 pi				
V486 Cas	E:	6.95				18.09 s	0.36 ome	0.09 ome		
FF And	UV+BY					62.90 s				
rho Tuc						18.80 s				
pi Cas						68.18 s	0.239 ome	0.260 ome	0.56 s	
omi Cas	GCAS									
YZ Cas	EA/DM	6.12 B	5.78 B	0.15	0.045	87.51	0.1493	0.0787	0.9392 bol	
CW Cas	EW/KW	11.62	11.47			73.4	0.439	0.333	0.533 V	0.543
23 Cas										
zet And	EB/GS/RS	4.20	(0.08 p)			74.5				
GX Cas	UGSS	18.5 p								
eta Cas						-				
64 Psc						78.40 s	< 0.11 ome	< 0.11 ome	0.54 s	
nu And						52.50 s	0.46 ome	0.063 ome	0.67 s	
AB 3										
AzV 73		(1.0 p)	(0.75 p)							
KL Cas	EB/SD	13.47 p	12.25 p	0.15		86.5	0.346	0.269	0.78 p	0.29
V452 Cas	UGSS	17.5 p				57.63 pi				
CF Tuc	EA/RS	7.80	7.52	0.10		71.5	0.15	0.287	0.638 V	(1.14)
HV 1620						75.77	0.345	0.33	0.630 V	0.607
VV Cet	EW/KE	11.0 p	11.0 p			81.5	0.572	0.213	0.89 p	0.13
HR 266						56.74 s	0.389 ome			
NSV 00349	EA:	11.1 v								
HD 5638						75.91 pi				
HV 1761		15.96 p	15.95 p			84.25	0.356	0.345	0.530 p	
U Cep	EA/SD	9.24	6.98	0.15	0.038	82.24	0.172	0.342	0.870 V	0.663
HD 5980		11.89	11.86	0.07	0.00	86.	0.163	0.115	0.410 v*	

Name	Photometric solution
BC Psc	
HD 108	
V640 Cas	(Brettman, O.H., Fried, R.E., Duvall, W.M., Hall, D.S., Poe, C.H., Shaw, J.S. 1983, IBVS 2389)
alp And	Pan, X., Shao, M., Colavita, M.M., Armstrong, J.T., Mozurkewich, D., Vivekanand, M., Denison, C.S., Simon, R.S., Johnston, K.J. 1992, Ap
bet Cas	
WW Cet	
BD +13°13	
gam Peg	
MT Cas	Svechnikov, M.A., Kuznetsova, E.F. 1990, Katalog Priblizhennykh Fotometricheskikh i Absolyutnykh Elementov Zatmennykh Peremennykh Zvez
UU Psc	Johnston, K.J. 1971, AJ, 76, 455
SZ Scl	Svechnikov, M.A., Kuznetsova, E.F. 1990, Katalog Priblizhennykh Fotometricheskikh i Absolyutnykh Elementov Zatmennykh Peremennykh Zvez
GU Cas	Svechnikov, M.A., Kuznetsova, E.F. 1990, Katalog Priblizhennykh Fotometricheskikh i Absolyutnykh Elementov Zatmennykh Peremennykh Zvez
AQ Tuc	Hilditch, R.W., King, D.J. 1986, MN, 223, 581
AO Cas	Gies, D.R., Wiggs, M.S. 1991, ApJ, 375, 321
HD 1383	
HP And	
TV Cas	de Landtsheer, A.C. 1983, AAp Suppl., 52, 213
CN And	Rafert, J.B., Markworth, N.L., Michaels, E.J. 1985, PASP, 97, 310
V592 Cas	
LR And	(Gonzalez-Bedolla, S.F., et al. 1986, AAp Suppl., 66, 303; González, S.F., Rolland, A., Giménez, A., López de Coca, P., Garrido, R., Hobart,
BE Cet	
HR 91	
PSR 0021-72A	Ables, J.G., McConnell, D., Jacka, C.E., McCulloch, P.M., Hall, P.J., Hamilton, P.A. 1989, Nature, 342, 158
PSR 0021-72E	
PSR 0021-72J	
HD 2019	
AG Phe	Cerruti, M.A. 1983, PASP, 95, 347
HR 104	
PG 0027+260	Thorstensen, J.R., Ringwald, F.A., Wade, R.A., Schmidt, G.D., Norsworthy, J.E. 1991, AJ, 102, 272
V381 Cas	Svechnikov, M.A., Kuznetsova, E.F. 1990, Katalog Priblizhennykh Fotometricheskikh i Absolyutnykh Elementov Zatmennykh Peremennykh Zvez
ZZ Cas	Svechnikov, M.A., Kuznetsova, E.F. 1990, Katalog Priblizhennykh Fotometricheskikh i Absolyutnykh Elementov Zatmennykh Peremennykh Zvez
13 Cet A	
HD 3264	
RT Scl	Hilditch, R.W., King, D.J. 1986, MN, 223, 581
pi And	(Percy, J.R., Madore, B. 1971 Veröff. Bamberg, 9, 197)

Name	Photometric solution
HD 3405	
V523 Cas	Samec, R.G., Van Hamme, W., Bookmyer, B.B. 1989, AJ, 98, 2287
HV And	
LL And	
V486 Cas	(Vitrichenko, E.A. 1969, Izv. Krym. Ap. Obs., 39, 63)
FF And	
rho Tuc	
pi Cas	
omi Cas	
YZ Cas	de Landtsheer, A.C. 1983, AAp, 53, 161
CW Cas	Barone, F., Maceroni, C., Milano, L., Russo, G. 1988, AAp, 197, 347
23 Cas	
zet And	(Stebbins, J. 1928, Pub. Washburn Obs., 15, 1)
GX Cas	
eta Cas	
64 Psc	
nu And	
AB 3	
AzV 73	
KL Cas	Svechnikov, M.A., Kuznetsova, E.F. 1990, Katalog Priblizhennykh Fotometricheskikh i Absolyutnykh Elementov Zatmennykh Peremennykh Zvez
V452 Cas	
CF Tuc	Budding, E., McLaughlin, E. 1987, ApSpSci, 133, 45
HV 1620	Davidge, T.J. 1988, AJ, 95, 731
VV Cet	Svechnikov, M.A., Kuznetsova, E.F. 1990, Katalog Priblizhennykh Fotometricheskikh i Absolyutnykh Elementov Zatmennykh Peremennykh Zvez
HR 266	
NSV 00349	
HD 5638	
HV 1761	(Gaposchkin, S.I. 1977, SAO Spec. Rpt. 380)
U Cep	Rafert, J.B., Markworth, N.L. 1991, ApJ, 377, 278
HD 5980	Breysacher, J., Perrier, C. 1991, IAU Symp. 143, 229

Name	M1	M2	A	R1	R2	T1	T2	log L1	log L2	Distance	U	V	W
BC Psc													
HD 108	81.28 s									3620. s			
V640 Cas	0.95 s	0.024 pi								19.8 spi			
alp And										33.0 spi			
bet Cas													
WW Cet	1.29 w	0.52 p											
BD +13°13										114. p			
gam Peg	10.96 s	0.075 pi											
MT Cas										151. s			
UU Psc	1.26	1.17											
SZ Scl										47.1 phi			
GU Cas													
AQ Tuc	1.97	0.70											
AO Cas	12.42	18.26								370. phi			
HD 1383	27.26 s	26.58 s											
HP And	0.71 p	0.28 p								3610. s			
TV Cas	2.83	1.33								129. p			
CN And										211. phi			
V592 Cas	0.89 p	0.55 p											
LR And	2.00 s	0.69 pi								409. p			
BE Cet										156. phi			
HR 91													
PSR 0021-72A	1.38	0.77											
PSR 0021-72E													
PSR 0021-72J										4650. g			
HD 2019	3.02 s	1.78								4650. g			
AG Phe	1.51 s	0.87 del								192. s			
HR 104	2.09 s	0.72 pi								230. phi			
PG 0027+260										59.6 s			
V381 Cas													
ZZ Cas	5.40	1.76											
13 Cet A	1.13 s	0.37 ome											
HD 3264	9.77 s	1.43 pi								19.4 pi			
RT Scl	1.62	0.70								710. s			
pi And	28.85	11.67								301. phi			
										2010. s			

Name	M1	M2	A	R1	R2	T1	T2	log L1	log L2	Distance	U	V	W
HD 3405	1.03 s	1.00 s								31.5 spi			
V523 Cas	0.61	0.25											
HV And	0.53 p	0.110 p								230. s			
LL And	0.71 p	0.28 p								365. p			
V486 Cas	18.50 s	8.37 s								1020. s			
FF And	0.50 s	0.50 s								21.3 pi			
rho Tuc	1.20 s	1.13 s								28.4 s			
pi Cas	1.83 s	1.81 s								56.5 s			
omi Cas													
YZ Cas	2.31	1.35								98.9 phi			
CW Cas	0.95 s'	0.52 phi								169. phi			
23 Cas													
zet And	0.45	1.10 c								27.0 pi			
GX Cas													
eta Cas	1.05 s	-								5.66 pi			
64 Psc	1.11 s	1.08 s								21.9 spi			
nu And	2.73 s	1.92 s								115. s			
AB 3													
AzV 73													
KL Cas													
V452 Cas	0.89 p	0.72 p								631. p			
CF Tuc	0.98	1.10											
HV 1620	28.18 s	17.11 s								89600. phi			
VV Cet													
HR 266	2.82 s	2.05								179. s			
NSV 00349													
HD 5638	5.62 s	2.79 pi								552. s			
HV 1761	11.81 s	11.31 s								60300. g			
U Cep	4.93	3.27											
HD 5980	54.46	50.48											

Name	Notes
BC Psc	del mv=2.5; Var? (0.05 V)
HD 108	Prob. single (cf. also Vreux, Conti 1979 ApJ, 228, 220)
V640 Cas	BY? (del V=0.16:); Vis. orb: P=106.83y, T=1943.05, a=1.432", e=0.450, i=44.4°, ome=278.8°, Ome=219.1° (Baize, P. 1957, J. Obs., 40
alp And	alp CVn (V=2.02-2.06);*Prot=0.9636d;del V=1.99; a=0.02415", Ome=104.16°
bet Cas	del Sct 2.25-2.31 V
WW Cet	
BD +13°13	
gam Peg	bet Cep (V=2.80-2.87)
MT Cas	
UU Psc	Ell;Min II-Min I=0.55p
SZ Scl	
GU Cas	Alternative lc soln: B0+(B4.5), i=79, r1=0.30, r2=0.26, l1=0.82p, q=0.25; [B5V]+(G6IV), i=85.6, r1=0.195, r2=0.160, l1=0.989 B (lc: J
AQ Tuc	
AO Cas	Max=5.96B;Papa~70y?;del m=0.78
HD 1383	del m=0.02 B
HP And	
TV Cas	B-V=+0.12 (Min I), +0.05 (Min II); del m=2.26
CN And	
V592 Cas	NL
LR And	
BE Cet	BY
HR 91	Vis. orb: P=103.96y, T=1998.29, a=0.266", e=0.350, i=76.0°, ome=89.7°, Ome=42.8° (Docobo, J.A., Costa, J.M. 1986, ApJ Sup, 60, 94
PSR 0021-72A	U=1.74y; DM=67
PSR 0021-72E	DM=24.2
PSR 0021-72J	DM=24.6
HD 2019	
AG Phe	
HR 104	
PG 0027+260	UX; Del phi (ph-sp)=76°
V381 Cas	
ZZ Cas	Max=10.8 p; Alternative lc soln: B3+(B6.5), i=70, r1=0.415, r2=0.335, l1=0.79p; q=0.64
13 Cet A	Vis. orb: P=6.89y, T=1973.389, a=0.240", e=0.767, i=49.0°, ome=283.5°, Ome=149.2° (Hartkopf, W.I., McAlister, H.A., Franz, O.G. 1
HD 3264	
RT Scl	
pi And	del m=3.17; Eclipse (del V=0.04) assumed

Name	Notes
HD 3405	
V523 Cas	
HV And	AM?
LL And	UG
V486 Cas	
FF And	BY (10.35-10.42 V); *Pphtm=2.170d
rho Tuc	
pi Cas	del m=0.25
omi Cas	Shell star (del V=0.15)
YZ Cas	Max=5.7 p; del m=2.9
CW Cas	
23 Cas	
zet And	
GX Cas	UGSS
eta Cas	Not a close binary; Vis. orb: P=470.62y, T=1889.88, a=11.778", e=0.495, i=33.43°, ome=266.32°, Ome=280.96° (Yan, L.-S., Cheng, Z.-Y
64 Psc	del m=0.16
nu And	del m=0.76
AB 3	V0 from mean of NV em
AzV 73	
KL Cas	EB
V452 Cas	UGSS
CF Tuc	EA/RS (del m=0.057m); *Pphtm=2.798d
HV 1620	
VV Cet	Type RRc possible
HR 266	Vis. orb: P=83.4y, T=1952.9, a=0.252", e=0.225, i=53.5°, ome=342.0°, Ome=170.1° (Heintz, W.D. 1978, ApJ Sup, 37.71)
NSV 00349	
HD 5638	
HV 1761	R1=4.5 Rsun, R2=4.4 Rsun (Gaposchkin, S. 1965, Kl. Veröff. Remeis-Sternw. Bamberg, 4, Nr. 40, 66)
U Cep	Comp C 12.2,21.2"
HD 5980	I3=0.333 v*; *Stromgren v

Name	RA(1950)	μ(RA)	Dec(1950)	μ(Dec)	Pos Ref	FK4	SRS	AGK3	SAO	GC	l	b
sig1 Psc	01 00 04.351	+0.09	+31 32 10.53	-2.6	Per70		40183	+31°0086	054374	1253	125.75	-31.00
RX And	01 01 45.809	+0.05	+41 01 54.44	-0.9	(BFW87)						125.58	-21.51
AB 6	01 01 47.87		-72 22 49.4		AC						301.63	-44.99
AB 7	01 01 58.36		-72 19 28.5		AC						301.61	-45.04
AS Scl	01 03 10.366	+0.10	-27 13 19.16	-4.8	SAO				166790	1315	210.58	-86.85
HV 1998	01 03 54.9		-72 17 25.		SMV						301.40	-45.06
HV 2016	01 04 50.2		-72 28 50.		SMV						301.32	-44.87
OX Cas	01 05 50.90		+61 12 16.2		PI77						125.02	-01.33
zet Phe	01 06 17.251	+0.24	-55 30 45.72	+3.1	SAO				232306	1387	297.83	-61.71
HT Cas	01 07 05.425		+59 48 38.70		BFW87						125.27	-02.71
XY Psc	01 07 36.		+03 17		GCVS						132.04	-58.99
CoD -30°369	01 08 14.59		-30 21 56.1		AC						249.29	-84.85
FN And	01 09 09.495		+35 01 31.19		BFW87						127.68	-27.43
HD 7215 A	01 10 06.406	+0.27	+31 48 38.37	+0.8	AGK3			+31°0107	054514	1459	128.21	-30.58
AN Scl	01 10 17.798	+1.02	-29 26 40.07	-3.7	SAO				166877		237.84	-84.89
RT Hyi	01 10 26.56		-79 26 33.9		LG90						301.77	-37.90
phi Psc B	01 11 01.311	+0.237	+24 19 04.65	-1.84	(FK4Sup)						129.37	-38.01
zet Psc B	01 11 08.335	+0.90	+07 18 52.03	-6.0	AGK3			+7°0135	109740	1477	132.57	-54.87
HD 7331 A	01 11 34.092	+0.72	+60 40 30.80	-3.9	AGK3			+60°0136	011652	1484	125.76	-01.80
FO And	01 12 42.085		+37 21 46.02		BFW87						128.18	-25.00
UV Psc	01 14 18.536	+0.51	+06 32 52.97	+5.5	AGK3			+6°0125	109778		134.15	-55.50
AD Phe	01 14 22.35		-39 58 21.6		AC						281.94	-76.37
WX Cet	01 14 37.52		-18 12 10.4		D87						156.53	-79.12
V662 Cas	01 14 41.693		+65 01 43.04		AC						125.71	+02.56
SMC X-1	01 15 45.67		-73 42 23.3		AC						300.41	-43.56
AQ Psc	01 18 26.843	-0.13	+07 20 38.93	+2.9	AGK3			+7°0149	109822		135.65	-54.53
xi And	01 19 23.103	+0.301	+45 16 02.87	+1.25	FK4	1035		+45°0133	037155	1647	128.58	-17.00
BI Cet	01 20 16.664	-0.67	+00 27 16.10	-23.6	Per70		3759	+0°0117	109840	1667	139.38	-61.15
BC Phe	01 20 20.879	0.00	-56 59 31.42	-3.1	SAO				232399		294.49	-59.89
47 And	01 20 48.441	+0.675	+37 27 16.30	-2.15	FK4Sup	2093		+37°0130	054655	1681	129.94	-24.72
HV 2226	01 22 30.6		-73 37 42.		SMV						299.75	-43.56
TY Psc	01 22 50.450		+32 07 35.60		BFW87						131.25	-29.94
HR 407	01 22 51.423	+0.215	+23 15 07.42	-1.13	FK4Sup	2096	40253	+23°0123	074707	1722	132.98	-38.69
HD 8690	01 23 29.960		+46 49 55.75		AC						129.11	-15.36
XX Cas	01 26 16.047	-0.19	+60 42 36.07	+3.7	AGK3			+60°0159			127.54	-01.56

Name	RA(1950)	μ(RA)	Dec(1950)	μ(Dec)	Pos Ref	FK4	SRS	AGK3	SAO	GC	l	b
SU Psc	01 26 42.		+19 21 24.		GCVS						135.07	-42.36
V646 Cas	01 27 12.654		+62 28 03.12		AC						127.39	+00.21
KU Cas	01 27 48.500		+57 38 48.20		BFW87						128.20	-04.57
IZ Per	01 28 56.492	-0.02	+53 45 43.33	-0.1	AGK3			+53°0132	022364		128.95	-08.38
AE Psc	01 28 59.864	+0.43	+22 29 03.90	-2.0	AGK3			+22°0152	074770		134.95	-39.19
AB 8	01 29 57.61		-73 40 31.2		AC						299.05	-43.41
AE Phe	01 30 29.024	+1.69	-49 47 01.41	-4.3	SAO				215545	1874	286.23	-66.25
TW Tri	01 33 45.		+31 45 30.		GCVS						133.97	-29.89
KT Per	01 34 01.700		+50 42 04.80		BFW87						130.21	-11.28
AY Psc	01 34 18.2		+07 01 09.		PG						142.31	-53.88
L 870-2	01 35 26.21	+3.96	-05 14 41.5	-34.3	(AC)						151.60	-65.24
HD 9974	01 35 37.792		+57 54 09.47		AC						129.18	-04.14
HR 484	01 38 30.650	+0.904	+25 29 38.52	-3.30	FK4Sup	2115	40296		074870	2042	136.80	-35.78
EP And	01 39 27.66		+44 30 36.8		PI77						132.38	-17.17
BL Hyi	01 39 37.5		-68 08 32.								295.92	-48.56
YZ Phe	01 40 22.		-46 12 00.		GCVS						278.02	-68.64
phi Per	01 40 30.757	+0.273	+50 26 15.92	-1.06	FK4	57		+50°0193	022554	2102	131.32	-11.33
GW Cep	01 40 40.82		+79 49 52.4		PI77						125.37	+17.47
AR And	01 42 06.915		+37 41 33.10		BFW87						134.44	-23.73
TT Cet	01 44 28.		-10 00 06.		GCVS						162.55	-68.24
GD 1401	01 45 49.	+0.44	-25 47 36.	-15.5							209.02	-77.20
TW Cet	01 46 31.80		-21 08 26.7		AC						190.58	-75.49
VY Cet	01 47 11.		-19 52 36.		GCVS						186.64	-74.72
AU Phe	01 48 22.38		-47 13 18.3		AC						276.53	-67.02
V436 Per	01 48 41.291	+0.176	+54 54 02.85	-0.62	FK4Sup	2122		+54°0198	022690	2241	131.57	-06.70
2 Per	01 48 57.679	+0.154	+50 32 47.91	-2.16	FK4	1052		+50°0206	022696	2246	132.64	-10.93
alp Tri	01 50 13.440	+0.084	+29 20 10.14	-22.95	FK4	64	30064	+29°0233	074996	2272	138.64	-31.40
bet Ari	01 51 52.340	+0.686	+20 33 52.09	-10.76	FK4	66	30066	+20°0171	075012	2309	142.24	-39.68
HD 11606	01 52 15.745	+0.05	+59 01 44.03	-0.2	AGK3			+59°0181	022753		131.07	-02.58
HR 562	01 54 53.749	-0.10	+41 27 05.29	+0.5	AGK3			+41°0199	037653	2359	136.03	-19.48
AA Cet	01 56 40.618	+0.56	-23 09 44.85	+4.1	SAO				167450	2392	201.27	-74.14
X Tri	01 57 42.427	+0.28	+27 38 50.46	-0.3	AGK3			+27°0217	075082		141.07	-32.54
YY Cet	01 57 49.205	-0.02	-18 26 58.19	-1.8	SAO				148148		187.13	-71.83
V Per	01 58 29.305		+56 29 36.8		D87						132.52	-04.82
HD 12323	01 59 07.466	-0.02	+55 23 00.78	-0.6	AGK3			+55°0206	022862		132.91	-05.87

Name	Bayer	Flmstd	HR	HD	BD	CoD	CPD	Var	Other
sig1 Psc	sig1 Psc	69 Psc	291	6118	+31°0168				(40 And); 18 H Psc; X0100+315 (EXO)
RX And								RX And	38.1905; X0101+410 (1ES)
AB 6									AB 6; ARM 51; AzV 332; R 31; Sk 108
AB 7									AB 7; AzV 336A
AS Scl				6491		-27°00352	-27°00090	AS Scl	
HV 1998									HV 1998
HV 2016									HV 2016
OX Cas					+60°0169			OX Cas	BV 4
zet Phe	zet Phe		338	6882		-55°00267	-55°00241	zet Phe	89G Phe; INCA 2701
HT Cas								HT Cas	16.1943; S 3343
XY Psc								XY Psc	
CoD -30°369						-30°00369	-30°00120		CSV 5896; NSV 00425
FN And								FN And	S 9505
HD 7215 A				7215 A	+31°0197				
AN Scl				7280		-29°00376	-29°00126	AN Scl	
RT Hyi								RT Hyi	HV 6347
phi Psc B	phi Psc B	85 Psc B	360 B	7318 B	23°0158B				27H Psc B; CSV 100093; NSV 00440; Zi 57
zet Psc B	zet Psc B	86 Psc B	362	7345	+6°0175				28H Psc B; CSV 100094; NSV 00442; Zi 59
HD 7331 A				7331 A	60°0193A				
FO And								FO And	S 9508
UV Psc				7700	+6°0189			UV Psc	BV 149; INCA 1011; X0114+065 (1ES)
AD Phe						-40°00288	-40°00117	AD Phe	BV 1260; CSV 5906; S 7148
WX Cet								WX Cet	BV 416; N Cet 1963
V662 Cas								V662 Cas	2CG 135+01; LS I +65°10; X0114+650 (3
SMC X-1									Sk 160; SMC X-1; X0115-737 (3A, 1ES, H,
AQ Psc				8152	+6°0203			AQ Psc	
xi And	xi And	46 And	390	8207	+44°0287				35H And; IRC +50033
BI Cet				8358	-0°0210			BI Cet	INCA 2651; X0120+004 (1ES)
BC Phe				8435		-57°00268	-57°00296	BC Phe	
47 And		47 And	395	8374	+36°0237				
HV 2226									HV 2226
TY Psc								TY Psc	
HR 407			407	8634	+22°0226				INCA 1014
HD 8690				8690	+46°0355				
XX Cas					+60°0246			XX Cas	HV 3550

Name	Bayer	Flmstd	HR	HD	BD	CoD	CPD	Var	Other
SU Psc								SU Psc	8.1931
V646 Cas					+61°0277			V646 Cas	CSV 146; LS I +62°165; NSV 00525; SVS 9
KU Cas								KU Cas	S 3883
IZ Per				9234	+53°0323			IZ Per	BV 224
AE Psc				9277	+21°0203			AE Psc	
AB 8									AB 8; Sk 188; Ws 17
AE Phe				9528		-50°00410	-50°00204	AE Phe	BV 483
TW Tri								TW Tri	SVS 2288; GR 292
KT Per								KT Per	GR 91
AY Psc								AY Psc	NSV 00564; PG 0134+070; PHL 1065
L 870-2									Gl 64; EG 11; G 271-115; L 870-2; LFT 142;
HD 9974				9974					LS I +57°24; MR 3; WR 3
HR 484			484	10308	+25°0276				
EP And								EP And	BV 75
BL Hyi								BL Hyi	X0139-681 (3A, 1ES, H, 1H)
YZ Phe								YZ Phe	S 7172
phi Per	phi Per	(54 And)	496	10516	+49°0444			phi Per	(42H And); 35.1911; MWC 16; Zi 90
GW Cep								GW Cep	BV 7; CSV 5941
AR And								AR And	Ross 346
TT Cet					-10°0374			TT Cet	155.1932; P 41
GD 1401									BPM 47349; GD 1401; Ton S231
TW Cet					-21°0311		-21°00167	TW Cet	156.1932; P 42
VY Cet					-20°0345			VY Cet	158.1932; CSV 168; P 44
AU Phe								AU Phe	CSV 5949; S 7177
V436 Per		1 Per	533	11241	+54°0396			V436 Per	1H Per; LS I +54°2
2 Per	g Per	2 Per	536	11291	+50°0379				(43H And)
alp Tri	alp Tri	2 Tri	544	11443	+28°0312				2H Tri; Gl 78.1; IRC +30031; X0150+293 (
bet Ari	bet Ari	6 Ari	553	11636	+20°0306				4H Ari; CSV 100146; Gl 80; IRC +20031; N
HD 11606				11606	+58°0331				LS I +59°98
HR 562			562	11905	+40°0407				
AA Cet				12180		23°00737 A	-23°00227 A	AA Cet	194G Cet; BV 1481
X Tri				12211	+27°0318			X Tri	HV 3551; SVS 7
YY Cet					-18°0349			YY Cet	BV 795
V Per				12244	56°0406a			V Per	HV 6; N Per 1887
HD 12323				12323	+54°0441				LS I +55°22; NSV 00702

Name	Sp1	Sp2	T-JD 2400000	P	e	omel	V0	K1	K2	v1 sin i	v2 sin i
sig1 Psc	B9.5V	(A0V)	31308.667	81.12	0.898	345.2	+10.40	54.27	60.00	46	
RX And	sdBe	(M2V)	47041.932	0.2098930	0	-	+27.	117		689 Sh; 410: e; 57	
AB 6	O6.5[III](n	WN3	43474.8	6.5380	0.18	338	+170.	64	350	200	
AB 7	WN3:	O7:	44586.2	16.34	0	-	+213.	144	128		
AS Scl	F2IV/V			1.65682?							
HV 1998	[A2III]	[A2III]	24462.659	0.8331956	0	-					
HV 2016			32003.648	2.954107	0						
OX Cas	B1V	(B1V)	46733.7912	2.489329	0.038	191.2	-	198	174		
zet Phe	B6V	B9V	41957.26010	1.669770	0.0113 phi	13.0 phi	+15.3	131.5	202.6	127	68
HT Cas	sdBe	M5.5V	43727.93721	0.0736472039	0	-	-5.	(115)	430	979 Sh; 645 e; 106	
XY Psc				[0.108]							
CoD -30°369			33175.88	0.48							
FN And				[0.108]							
HD 7215 A	A2/3(III)	A1(V)	43082.388	2.12739	0.015	88	-2.1	62.5	79.7	25	
AN Scl	K0V			0.25:							
RT Hyi	[G8]	(G7.5)	25480.50	0.284038							
phi Psc B			46809.2557	1.9946028	0	-	+5.07	47.7			
zet Psc B	F7V	(G7V)	44947.09	9.07530	0.040	127	+10.66	53.43	75.28	<=25	
HD 7331 A	F8V	F9V	46303.700	5.333702	0.155	100.2	+4.6	79.1	83.4	12.5	12.4
FO And	sdBe			0.071:							
UV Psc	G5V	K0-2V	44932.2985	0.86104771	0	-	+6.3	119.0	166.8	66	54
AD Phe	(G1V)	(G1V)	46002.8683	0.3799344							
WX Cet	sdBe			0.05186:							
V662 Cas	B0.5IIIe	xpsr	44134.9	11.588	0.16	11	-57.	17		100	
SMC X-1	B0.5Ib	(xpsr)	43002.1088	3.89239	<0.0007	-	+180.	19	299.45	200	
AQ Psc	F8(V)	(F8V)	44562.4691	0.47564							
xi And	K0-III		20024.881	17.7673	0.037	182.22	-29.83	25.69		<17	
BI Cet	G5V	G5V	45603.485	0.515782	0.0	-	-82.8	77.2	84.3	60.*	60
BC Phe	G6/8III/IV	[G8V]	44000.318	0.65690	0	-	+4.0	44.5	55.8	*	
47 And	A1/A9/F3I	A(8IV)m	21894.691	35.371	0.627	320.1	+13.3	39.0	40.5	15	
HV 2226	B0.5IV	B3III	47813.465	1.900886	0	-	+168.	158	263		
TY Psc	sdBe		47141.252?	0.064?							
HR 407	F5III	[M4.5V]	44998.46	5.4264	0.28	351	-14.8	15.2		34	
HD 8690	K0V			1.1							
XX Cas	B4Vn	B6Vn	36527.619	3.0671773							

Name	Sp1	Sp2	T-JD 2400000	P	e	omel	V0	K1	K2	v1 sin i	v2 sin i
SU Psc	B3III	(B6.5)	26004.344	2.681409							
V646 Cas	B0IVnn	(B1III)	30991.23	2.4							
KU Cas				(0.124 ACP)							
IZ Per	B8V	A5IV	44577.7026	3.687673	0.064	102.8	-51.2	52.9		175	
AE Psc	K0III-IV			1.4175							
AB 8	WO4	O4V	46045.6	16.644	0.19	174	+159.	176	48		
AE Phe	G0V	G0V	43732.8819	0.362377	0.0	-	-9.2	121.2	257.0	-	
TW Tri				(0.139 ACP)							
KT Per	sdBe	-		(0.125)						796 Wi	
AY Psc	sdBe		47623.3463	0.2173209							
L 870-2	DA7		47103.8980	1.55578	0	-	+29.6	77.6	69.6		
HD 9974	WN3	[B5V]	38693.	46.85	0	-	-8.	33			
HR 484	F2III	F2III	44800.34	4.43444	0.147	253	+9.1	76.9	82.8	12	
EP And	[F3]	(F2)	42638.522	0.40410755							
BL Hyi	sdBe	M6-7V	44969.6035:	0.07891507	0	-	+28.		142. e		
YZ Phe	[G6]	(F7)	45621.39679	0.23472700							
phi Per	B2Vep	B3Ve	43555.3	126.696	0.02	145	-8.4	16.8	105.3	450	
GW Cep	G3		38383.711	0.31885							
AR And	sdBe	(M5V)	46807.643	0.164	0	-		~70		459 Wi	
TT Cet	A[8]	(F9)	32545.830	0.4859565							
GD 1401	DA(3)			0.17?							
TW Cet	G5(V)	G5(V)	42373.378	0.3168519	0.0	-	+20.	135	255		
VY Cet	A5V		45284.7219	0.3408087							
AU Phe			45292.6660	0.306660							
V436 Per	B1.5V		43563.805	25.9359	0.309 phi	115.9 phi				198	
2 Per	B9IIIpHg	[K5V]	40281.3	5.62698	0.08	193	+11.3	26.1		22	
alp Tri	F6IV	[M5V]	43440.16	1.767	0.065	145	-16.2	10.64		93	
bet Ari	A4V	[F8V]	44274.276	106.9954	0.8793	24.9	-3.2	36.4	66.6	79	
HD 11606	B2Vne		45269.001	1.44362	0	-	-13.6	11.4			
HR 562	B8IIIpHg	[M4V]	41943.5	5.0109	0.08	136	-6.9	11.6		8	
AA Cet	F2V	(F5V)	41268.689	0.53616996							
X Tri	A5V	G0V	42502.721	0.9715352	0.0	-	-5.	110			
YY Cet	A7		45259.0560	0.7904596	0	-	+3.5	109.2	214		
V Per	sdBe		47445.9322	0.10712							
HD 12323	ON9V	[A5V]	40227.53	3.06674	0.25	30	-61.5	28.0		130	

Name	Spectroscopic orbit
sig1 Psc	Pisani Belserene, L. 1947, ApJ, 105, 229
RX And	Kaitchuk, R.H., Marsperger, C.S., Hantzios, P.A. 1988, ApJ, 330, 305
AB 6	Hutchings, J.B., et al. 1984, PASP, 96, 811
AB 7	Moffat, A.F.J. 1988, ApJ, 330, 766
AS Scl	
HV 1998	
HV 2016	
OX Cas	Schiller, S.J., Milone, E.F. 1987, BAAS, 19, 642; (Crinklaw, G., Etzel, P.B. 1989, AJ, 98, 1418)
zet Phe	Anderson, J. 1983, AAp, 118, 255
HT Cas	Young, P.S., Schneider, D.P., Shectman, S.A. 1981, ApJ, 245, 1035; Marsh, T.R. 1990, ApJ, 357, 621
XY Psc	
CoD -30°369	
FN And	
HD 7215 A	Hube, D.P. 1981, PASP, 93, 490
AN Scl	
RT Hyi	
phi Psc B	Griffin, R.F. 1991, Obs. 111, 201
zet Psc B	Beavers, W.I., Salzer, J.J., Shen, L.-Z. 1984, PASP, 96, 179
HD 7331 A	Duquennoy, A. 1987, AAp, 178, 114
FO And	
UV Psc	Popper, D.M. 1991, AJ, 102, 699
AD Phe	
WX Cet	
V662 Cas	Crampton, D., Hutchings, J.B., Cowley, A.P. 1985, ApJ, 299, 839
SMC X-1	Hutchings, J.B., et al. 1977, ApJ, 217, 186; Primini, F., et al. 1977, ApJ, 217, 543
AQ Psc	
xi And	
BI Cet	Bopp, B.W., et al. 1985, ApJ, 297, 691
BC Phe	Collier-Cameron, A., Lloyd Evans, T., Balona, L.A. 1988, MN, in press
47 And	Fletcher, J.M. 1967, JRASC. 61, 56
HV 2226	Bell, S.A., Hill, G., Hilditch, R.W., Clausen, J.V., Reynolds, A.P., Giménez, A. 1991, MN, 250, 119
TY Psc	
HR 407	Mayor, M., Mazeh, T. 1987, AstrAp, 171, 157
HD 8690	
XX Cas	

Name	Spectroscopic orbit
SU Psc	
V646 Cas	
KU Cas	
IZ Per	Yavuz, I. 1969, AAp, 2, 388
AE Psc	
AB 8	Moffat, A.F.J., Niemela, V.S., Marraco, H. 1990, ApJ, 348, 232
AE Phe	Van Hamme, W., Wilson, R.E. 1985, AAp, 152, 25
TW Tri	
KT Per	
AY Psc	
L 870-2	Saffer, R.A., Liebert, J., Olszewski, E.W. 1988, ApJ, 334, 947
HD 9974	Moffat, A.F.J., Lamontagne, R., Shara, M.M., McAlister, H.A. 1986, AJ, 91, 1392
HR 484	Mayor, M., Mazeh, T. 1987, AstrAp, 171, 157
EP And	
BL Hyi	Hutchings, J.B., Cowley, A.P., Crampton, D. 1985, PASP, 97, 423
YZ Phe	
phi Per	Poeckert, R. 1981, PASP, 93, 297
GW Cep	
AR And	Shafter, A.W. 1989, unpub.
TT Cet	
GD 1401	
TW Cet	Struve, O., et al. 1950, ApJ, 111, 658
VY Cet	
AU Phe	
V436 Per	(Blaauw, A., van Albada, T.S. 1963, ApJ, 137, 791)
2 Per	Lebedev, V.S. 1985, Astr. Tsirk. 1393, p. 7
alp Tri	Pike, C.D., Lloyd, C., Stickland, D.J. 1978, Acta Astr, 28, 235
bet Ari	Hilditch, R.W., Edwin, R.P., Milligan, H.M., McFadzean, A.D. 1988, Obs., 108, 228; Tomkin, J., Tran, H. 1987, AJ, 94, 1664
HD 11606	Gies, D.R., Bolton, C.T. 1986, ApJ Suppl., 61, 419
HR 562	Lebedev, V.S. 1985, Astr. Tsirk., No. 1393, p. 7
AA Cet	
X Tri	Struve, O. 1946, ApJ, 104, 253
YY Cet	McFarlane, T.M., King, D.J., Hilditch, R.W. 1986, MN, 218, 159
V Per	
HD 12323	Musaev, F.A., Chentsov, E.L. 1989, Pis'ma AZh, 15, 833 (1990 Sov. AJ Lett., 15, 360)

Name	V	B-V	U-B	R-I	E(B-V)	par	Cluster	ADS	Vis Binary	Companions
sig1 Psc	5.50	-0.05	-0.18		0.00					
RX And	10.90	0.00	-0.69	-0.04	0.00 u					
AB 6	12.41	-0.29	-1.03		0.05		NGC 371; SMC			
AB 7	13.16	-0.26			0.092		NGC 371; SMC			
AS Scl	8.13									
HV 1998	14.62 p				0.11 m		(NGC 395); (SMC)			
HV 2016	14.79	-0.20			0.11 m		SMC			
OX Cas	9.918	+0.28	-0.53				Cas OB1			
zet Phe	3.92	-0.08	-0.41	-0.12	0.00	0.0129;	D0.013		Rst 1205 A; Rmk 2	7.0, A7:, 0.46"; 8.0, F7, 6.4"
HT Cas	12.60	-0.06	-0.97		0.02					
XY Psc	13.0 p				0.10 m		Anon. galaxy			
CoD -30°369	10.4 v									
FN And	13.5 p				0.21 m					
HD 7215 A	6.98	+0.045	-0.035		0.01	D0.020		988 A	Sig 98 A	8.78, +0.20, 19.5"
AN Scl	8.85	+0.89	+0.49							
RT Hyi	13.2 p									
phi Psc B	9.89:	+0.81:	-0.08:			0.007		995 B	Sig 99 B	4.65, +1.04, +0.85, +0.53, K0II-III, 7.
zet Psc B	6.30	+0.49	+0.01		0.00	0.026		996 B	bet 1029 A; Sig 100 B	
HD 7331 A	7.26 D	+0.47	-0.04		0.00	D0.0106		999 A	bet 1100 A (orb)	8.04, F6IV, 75y
FO And	13.5 p									
UV Psc	9.24	+0.73	+0.28			0.008				
AD Phe	10.28	+0.59			0.00					
WX Cet	11.25	-0.11	-0.78	-0.07						
V662 Cas	11.06	+1.09	-0.06		1.35					
SMC X-1	13.157	-0.16	-0.99		0.09		SMC			
AQ Psc	8.60	+0.50	0.00		0.00					
xi And	4.88	+1.08	+0.99	+0.53		0.026				
BI Cet	8.20	+0.710	+0.144	+0.437C	0.05					
BC Phe	8.80	+0.7:		+0.39C						
47 And	5.58	+0.26	+0.13	+0.12	0.03					
HV 2226	15.25	-0.19			0.04		SMC			
TY Psc	12.2 v				0.0 u					
HR 407	6.18	+0.43	0.00		0.00					
HD 8690	9.7 v									
XX Cas	8.97	+0.36	-0.59							

Name	V	B-V	U-B	R-I	E(B-V)	par	Cluster	ADS	Vis Binary	Companions
SU Psc	10.95	-0.08	-0.61							
V646 Cas	9.63	+0.58	-0.39		0.86					
KU Cas	13.3 p									
IZ Per	7.8 p									
AE Psc	7.09									
AB 8	12.81	-0.24	-0.79		0.08		NGC 602c; SMC			
AE Phe	7.56	+0.63	+0.15		0.05					
TW Tri	13.3 p				0.21 m		(M 33)			
KT Per	11.7 v				0.15 u					
AY Psc	15.27	+0.15	-0.78	+0.16						
L 870-2	12.85	+0.34	-0.49	+0.254C	0.00	0.0818				
HD 9974	10.70	-0.05	-0.09		0.40 u					
HR 484	6.17	+0.44	0.00		0.00	0.023		1326 A	Sig 145 A	10.8, F2III, 10.6"
EP And	11.9 p									
BL Hyi	14.9 v				0.0 u					
YZ Phe	12.61									
phi Per	4.07	-0.04	-0.93	+0.02	0.23	0.025	Cas-Tau OB1			
GW Cep	11.4 p									
AR And	12.59	+0.13	-0.52		0.05 u					
TT Cet	10.8									
GD 1401	14.4			+0.77						
TW Cet	10.43	+0.72	+0.16							
VY Cet	11.025	+0.688	+0.198							
AU Phe	12.5 p									
V436 Per	5.49	-0.18	-0.83				Cas-Tau OB1			
2 Per	5.79	-0.07	-0.30							
alp Tri	3.41	+0.49	+0.06	+0.28	0.03	0.057			bet pm A	
bet Ari	2.64	+0.13	+0.09	-0.02		0.074;	D0.0526		bet Ari AB (orb)	
HD 11606	7.02	+0.06	-0.86				<Per OB1>			
HR 562	6.78	-0.06	-0.39		0.02					
AA Cet	6.82 v	+0.40			0.03			1581 A	H II 58 A	7.7v, F5, 8.5"
X Tri	8.88				0.13 m				J 3257 A	13.3, 6.7"
YY Cet	10.49	+0.29			0.029					
V Per	18.5 p									
HD 12323	8.90	-0.07	-0.93		0.24		Per OB1?			

Name	Vbl type	Min I	Min II	D	d	i	rl	r2	ll	qph
sig1 Psc										
RX And	UGZ	13.57				37.83 s	0.026 ome		0.54 s	
AB 6										
AB 7						68. P	0.411 ome			
AS Scl	ELL:									
HV 1998		15.78 p	15.73 p			88.00	0.413	0.346	0.587 p	0.681
HV 2016		(1.06 p)	(0.52 p)			90.00	0.258	0.346	0.496 p	(0.688 assume
OX Cas	EA/DM	10.35	10.30	0.15	0.016	84.15	0.2560	0.2304	0.492 V*	
zet Phe	EA/DM	4.42	4.22	0.12	0.000; 0.02	87.76	0.2585	0.1683	0.781 V	
HT Cas	UGSS+EA	19.32		[0.0493]		81.	0.018			0.15
XY Psc	UG:	>18.5 p				57.63 pi				
CoD -30°369	EW	11.0 v	10.9 v							
FN And	UG	17.5 p				57.63 pi				
HD 7215 A						30.23 s	0.18 ome			
AN Scl	EW:/KW:	(0.2 v)								
RT Hyi	EW/KW	14.1 p	14.1 p			85.	0.419	0.298	0.65 p	0.62
phi Psc B	-									
zet Psc B	-					85.10 se	<=0.19 ome			
HD 7331 A						81.37 se	0.068 ome	0.067 ome		
FO And	UG	17.5 p				57.63 pi				
UV Psc	EA/D:/RS									
AD Phe	EW/KW	10.81	10.80			90.0	0.247	0.185	0.811 V	
WX Cet	UG	18. p				73.6	0.3996	0.3885	0.5200 bol	(0.94)
V662 Cas	XP:					56.73 pi				
SMC X-1		13.280	13.232			78.45 se				
AQ Psc	EW/KW	8.964	8.930		0.04:	67:	0.57		"1.	
xi And						70.80	0.530	0.245	0.824 V	0.1804
BI Cet	RS									
BC Phe	RS					29.37 s	0.37 ome	0.37 ome		
47 And										
HV 2226						38.87 s	0.053 ome		0.52 s	
TY Psc	UGSU	16.28	15.73	0.22		86.30	0.351	0.335	0.662 V	
HR 407		16.3 p				65:				
HD 8690						52.66 pi				
XX Cas	UG:	(0.7 p)	(0.2 p)	0.20		84.2	0.269	0.369	0.510 V	

Name	Vbl type	Min I	Min II	D	d	i	rl	r2	ll	qph
SU Psc	EB/D:	11.9 v	11.3 v			80.	0.358	0.295	0.76 V	0.40
V646 Cas	EA/KE:	(0.9 p)				"90.				
KU Cas	UGSS	18. p								
IZ Per	EA/SD	9.0 p	8.3 p			87.2	0.306	0.292	0.78 V	0.36
AE Psc	E	(0.16)								
AB 8						103. P				
AE Phe	EW/KW	8.25	8.19		0.04; 0.00	86.24	0.4746	0.3113	0.6737y	0.3895
TW Tri	UGZ	17.0 p				57.63 pi				
KT Per	UGZ+ZZ	15.0 p				90.00 w				
AY Psc	NL	17.2		[0.0544]						
L 870-2						53.6	0.0037	0.0031	0.54: bol	
HD 9974						57.28 pi				
HR 484						56.12 s	0.07 ome			
EP And	EW/KW	12.5 p	12.5 p			77.	0.44	0.28	0.70 p	0.5
BL Hyi	E+XPRM	>18. v				32.				
YZ Phe	EW/KW	13.29	13.25			73.5	0.42	0.30	0.56 p	0.60
phi Per	GCAS					88.34 se	3.68 ome			
GW Cep	EW/KW	(0.62)	(0.55)			83.9	0.476	0.304	0.665 bol	0.370
AR And	UGSS	16.95				53.26 w				
TT Cet	EW/KE:	11.32	11.1			74.	0.490	0.272	0.89 V	0.30
GD 1401										
TW Cet	EW/KW	11.18	11.14			82.79	0.430	0.328	0.599	0.562
VY Cet	EW/KW	11.65	11.62			79.13	0.325	0.425	0.425 V	1.793
AU Phe	EW/KW	(0.45)	(0.37)			66.63	0.354	0.424	0.483 V	1.498:
V436 Per	EA/D	5.85	5.74	0.016; 0.03		88.30	0.0381	0.0331	0.73 V	
2 Per										
alp Tri										
bet Ari	-									
HD 11606						44.7	0.060 ome		0.919* s	
HR 562										
						51.36 pi				
AA Cet	EW/KE	(0.54)	(0.27)		0.065	74.2	0.533	0.176	0.921 V	(0.0848)
X Tri	EA/SD	11.27	9.07	0.18	0.013	87.4	0.273	0.313	0.893 y	>=0.4545
YY Cet	EB/KE:	11.53	10.80			87.	0.413	0.322	0.8820 V	0.52
V Per	N			[0.071]						
HD 12323	-									

Name	Photometric solution
sig1 Psc	
RX And	
AB 6	Moffat, A.F.J., Seggewiss, W. 1989, Recent Developments Magellanic Clouds Research (Paris), p. 97
AB 7	
AS Scl	(Kurtz, D.W., Marang, F. 1987, MN, 228, 141)
HV 1998	(Gaposchkin, S.I. 1977, SAO Spec. Rpt. 380)
HV 2016	(Gaposchkin, S.I. 1977, SAO Spec. Rpt. 380)
OX Cas	Crinklaw, G., Etzel, P.B. 1989, AJ, 98, 1418
zet Phe	Clausen, J.V., et al. 1976, AAp, 46, 205; Gimenez, A., et al. 1986, AAp, 159, 157
HT Cas	Horne, K., Wood, J.H., Stiening, R.F. 1991, ApJ, 378, 271
XY Psc	
CoD -30°369	
FN And	
HD 7215 A	
AN Scl	
RT Hyi	Svechnikov, M.A., Kuznetsova, E.F. 1990, Katalog Priblizhennykh Fotometricheskikh i Absolyutnykh Elementov Zatmennykh Peremennykh Zvez
phi Psc B	
zet Psc B	
HD 7331 A	
FO And	
UV Psc	Budding, E., Zeilik, M. 1987, ApJ, 319, 827
AD Phe	McFarlane, T.M., Hilditch, R.W. 1987, MN, 227, 381
WX Cet	
V662 Cas	
SMC X-1	Hutchings, J.B., et al. 1977, ApJ, 217, 186
AQ Psc	(Sarma, M.B.K., Radhakrishnan, K.R. 1982, IBVS, 2073)
xi And	
BI Cet	
BC Phe	
47 And	
HV 2226	Bell, S.A., Hill, G., Hilditch, R.W., Clausen, J.V., Reynolds, A.P., Giménez, A. 1991, MN, 250, 119
TY Psc	Warner, B. 1986, unpub.
HR 407	
HD 8690	
XX Cas	Srivastava, R.K. 1987, IBVS 3001

Name	Photometric solution
SU Psc	Svechnikov, M.A., Kuznetsova, E.F. 1990, Katalog Priblizhennykh Fotometricheskikh i Absolyutnykh Elementov Zatmennykh Peremennykh Zvez
V646 Cas	(Soloviev, A.V. 1944, Astr. Tsirk., 34, p. 2)
KU Cas	
IZ Per	Wolf, G.W., West, S.R.D. 1990, Pacific Rim Colloquium on New Frontiers in Binary Star Research
AE Psc	
AB 8	Moffat, A.F.J., Seggewiss, W. 1989, Recent Developments Magellanic Clouds Research (Paris), p. 97
AE Phe	Van Hamme, W., Wilson, R.E. 1985, AAp, 152, 25
TW Tri	
KT Per	
AY Psc	(Szkody, P., Howell, S.B., Mateo, M., Kreidl, T.J. 1989, PASP, 101, 899)
L 870-2	Bergeron, P., Wesemael, F., Liebert, J., Fontaine, G. 1989, ApJ Lett., 345, L91
HD 9974	
HR 484	
EP And	Svechnikov, M.A., Kuznetsova, E.F. 1990, Katalog Priblizhennykh Fotometricheskikh i Absolyutnykh Elementov Zatmennykh Peremennykh Zvez
BL Hyi	Schwope, A.D., Beuermann, K. 1989, AAp, 222, 132
YZ Phe	Svechnikov, M.A., Kuznetsova, E.F. 1990, Katalog Priblizhennykh Fotometricheskikh i Absolyutnykh Elementov Zatmennykh Peremennykh Zvez
phi Per	
GW Cep	Kaluzny, J. 1984, AA, 34, 217
AR And	
TT Cet	Svechnikov, M.A., Kuznetsova, E.F. 1990, Katalog Priblizhennykh Fotometricheskikh i Absolyutnykh Elementov Zatmennykh Peremennykh Zvez
GD 1401	
TW Cet	Russo, G., et al. 1982, AAp, 47, 211
VY Cet	Lapasset, E., Clariá, J.J. 1986, AAp, 161, 264
AU Phe	Lapasset, E., Clariá, J.J. 1985, Rev. Mex., 10, 283
V436 Per	Gaspani, A. 1982, IBVS 2077
2 Per	
alp Tri	
bet Ari	Pan, X.P., Shao, M., Colativa, M.M., Mozurkewich, D., Simon, R.S., Johnston, K.J. 1990, ApJ, 356, 641
HD 11606	
HR 562	
AA Cet	Bloomer, R.H. 1973, Ph.D. Thesis, U. Florida
X Tri	Mezzetti, M., et al. 1980, AAp Suppl., 39, 265
YY Cet	McFarlane, T.M., King, D.J., Hilditch, R.W. 1986, MN, 218, 159
V Per	(Shafter, A.W., Abbott, T.M.C. 1989, ApJ, in press)
HD 12323	

Name	M1	M2	A	R1	R2	T1	T2	log L1	log L2	Distance	U	V	W
sig1 Psc	2.44 s	2.20 s											
RX And		0.65 p								127. s			
AB 6	48.53	8.87								148. k			
AB 7										44300. s			
AS Scl													
HV 1998	2.17 p	1.48 phi											
HV 2016										5410. phi			
OX Cas	6.30	7.16								60300. g			
zet Phe	3.92	2.54											
HT Cas	0.83	0.125								83.9 phi			
XY Psc	0.71 p	0.28 p											
CoD -30°369										372. p			
FN And	0.71 p	0.28 p											
HD 7215 A	2.79	2.19 s								386. p			
AN Scl										308. s			
RT Hyi													
phi Psc B													
zet Psc B	1.19 s	0.84 s											
HD 7331 A	1.22 s	1.15 s								31.8 s			
FO And										102. s			
UV Psc	1.22	0.87											
AD Phe	1.06 s'	1.00 phi											
WX Cet										209. phi			
V662 Cas	13.86 se	1.41 s											
SMC X-1	15.70	1.00								2070. s			
AQ Psc	1.14 s'	0.21 phi								43300. phi			
xi And										114. s			
BI Cet	1.00 s	0.91 s											
BC Phe										54.7 s			
47 And	1.80 s	1.73 s											
HV 2226	9.24	5.55								76.5 s			
TY Psc													
HR 407	1.51 s	0.22 pi											
HD 8690										68.6 s			
XX Cas													

Name	M1	M2	A	R1	R2	T1	T2	log L1	log L2	Distance	U	V	W
SU Psc													
V646 Cas	21.88 s	16.41 s											
KU Cas										2710. s			
IZ Per	2.24	0.81											
AE Psc													
AB 8	4.25	15.58											
AE Phe	1.39	0.66											
TW Tri	0.89 p	0.74 p								57.7 phi			
KT Per	0.93 s'	0.35 p								435. p			
AY Psc										130. k			
L 870-2	0.47	0.52											
HD 9974	15.84 s	5.04 pi								12.2 pi			
HR 484	1.64 s	1.53 s											
EP And										64.9 spi			
BL Hyi	0.142	0.21 p											
YZ Phe													
phi Per	20.67 s	3.30 s											
GW Cep										181. s			
AR And	0.89 p	0.61 p											
TT Cet										426. p			
GD 1401													
TW Cet	1.30	0.69											
VY Cet													
AU Phe													
V436 Per													
2 Per	3.09 s												
alp Tri	1.33 s												
bet Ari	2.43	1.33								17.5 pi			
HD 11606										19.0 pid			
HR 562	3.31 s	0.28 pi											
AA Cet	1.38 s'	0.117 phi								304. s			
X Tri	1.82 s	1.03								66.4 phi			
YY Cet	1.84	0.94								206. phi			
V Per													
HD 12323										3400. s			

Name	Notes
sig1 Psc	del m=0.16
RX And	Z Cam
AB 6	
AB 7	
AS Scl	
HV 1998	C.I. = +0.8
HV 2016	R1=5.3 Rsun, R2=5.1 Rsun (Gaposchkin, S. 1965, Kl. Veröff. Remeis-Sternw. Bamberg, 4, Nr. 40, 66)
OX Cas	Min II-Min I=0.512p; U=39.8y; *13=0.129 V
zet Phe	U=44.2y
HT Cas	del V(ecl)=2.4; UGSS+EA; Twd=14000K
XY Psc	UG?/SN?
CoD -30°369	
FN And	UG
HD 7215 A	
AN Scl	EW:/KW:; in Min B-V= +0.94, U-B= +0.54
RT Hyi	
phi Psc B	Following discussion by Griffin, pe photometry (Lutz, T.E., Lutz, J.H. 1977, AJ, 82, 431) assumed contaminated by scattered light (Del m=5.19)
zet Psc B	mv(1)=6.7; mv(2)=8.7
HD 7331 A	Vis. orb: P=257.0y, T=1950.9, a=0.66", e=0.38, i=113.5°, ome=120.0°, Ome=37.0° (Baize, P. 1987, AAp Sup, 71, 177)
FO And	UGSU
UV Psc	
AD Phe	
WX Cet	Psh=0.053d
V662 Cas	
SMC X-1	Max=13.0 p
AQ Psc	
xi And	
BI Cet	RS CVn; *Prot=0.515503d; del V=0.22
BC Phe	RS (0.06V); *Pphtm=0.657d
47 And	del m=0.09
HV 2226	
TY Psc	UG
HR 407	
HD 8690	
XX Cas	

Name	Notes
SU Psc	
V646 Cas	
KU Cas	UGSS
IZ Per	
AE Psc	E
AB 8	Amp 0.01V
AE Phe	EW
TW Tri	UGZ
KT Per	Z Cam
AY Psc	UX
L 870-2	T1=T2=7300K
HD 9974	Single? (Schulte-Ladbeck, van der Hucht 1988, BAAS, 20, 738); K from He II lam4686 em & Hgam abs; V0 from NV em
HR 484	
EP And	
BL Hyi	E+XPRM; Twd=20000K
YZ Phe	
phi Per	gam Cas (del V=0.15)
GW Cep	(T2-T1)/T1=0.054
AR And	
TT Cet	
GD 1401	
TW Cet	del m=0.94
VY Cet	
AU Phe	P may be wrong
V436 Per	Min II-Min I=0.413p
2 Per	
alp Tri	
bet Ari	*del m(0.8μ)=2.63; Vis. orb: P=0.2929437y, T=1980.038568, a=0.0361; e=0.895, i=44.7°, ome=209.1°, Ome=79.1°, B=0.353 (Pan, X.P.
HD 11606	Non-radial puls?
HR 562	
AA Cet	EW
X Tri	Max=8.9B; del m=1.86
YY Cet	
V Per	
HD 12323	

Name	RA(1950)	μ(RA)	Dec(1950)	μ(Dec)	Pos Ref	FK4	SRS	AGK3	SAO	GC	l	b
gam2 And B	02 00 49.974	+0.33	+42 05 31.16	-5.1	SAO				037735	2479	136.97	-18.56
VW Tri	02 00 59.		+32 36		GCVS						140.08	-27.61
SS Ari	02 01 26.	+0.23	+23 45 42.	-0.5	GCVS						143.57	-35.94
kap Ari	02 03 45.702	+0.12	+22 24 39.13	-3.4	Per70		40376	+22°0188	075146	2527	144.78	-37.02
TT Ari	02 04 09.91		+15 03 27.4		W83						148.53	-43.81
HD 13018	02 05 00.932	-0.08	+17 47 32.20	+1.5	AGK3			+17°0176	092801	2547	147.33	-41.20
BX And	02 05 59.297	+0.12	+40 33 28.73	+0.1	AGK3			+40°0226	037805	2563	138.43	-19.73
bet Tri	02 06 33.579	+1.200	+34 45 06.52	-3.74	FK4	75	30075	+34°0207	055306	2572	140.55	-25.20
UV Per	02 06 39.40		+56 57 10.0		BFW87						133.48	-04.07
HD 12881	02 06 41.399	-0.44	+79 27 28.93	+3.4	AGK3			+79°0076	004592	2577	126.66	+17.41
WX Hyi	02 08 29.42		-63 32 47.8		L85						288.90	-51.62
UW Per	02 09 00.415		+56 51 16.4		D87						133.78	-04.06
GZ And	02 09 04.989		+44 25 32.18		AC						137.72	-15.87
TZ Tri	02 09 27.778	-0.32	+30 04 10.44	-8.5	AGK3			+30°0219	055347	2633	142.98	-29.40
iot Tri B	02 09 27.868	-0.32	+30 04 14.14	-8.5	AGK3			+30°0219	055347	2633	142.98	-29.40
TZ Per	02 10 18.340	-0.14	+58 08 52.41	+0.6	(BFW87)						133.58	-02.78
HD 13716	02 12 07.482	+0.04	+57 31 52.18	+0.2	AGK3			+57°0274	023094		134.00	-03.29
RX Ari	02 12 31.699	+0.17	+22 20 13.83	+1.4	AGK3			+22°0206			147.15	-36.32
V355 Per	02 12 32.399	+0.02	+57 30 47.09	+0.4	AGK3			+57°0275	023102		134.06	-03.28
del Tri	02 13 59.587	+9.29	+33 59 47.81	-22.4	AGK3			+33°0211	055420	2733	142.43	-25.39
V438 Per	02 14 16.084	+0.01	+56 24 38.60	+0.1	AGK3			+56°0257	023138		134.63	-04.26
WY Tri	02 16 35.		+32 02								143.79	-27.02
BD +78°79	02 16 35.776		+78 40 55.14		AC			+78°0047			127.39	+16.82
HD 14384	02 17 45.610	+0.41	+54 16 54.43	-0.5	AGK3			+54°0284	023229	2815	135.81	-06.10
DN Cas	02 19 29.00		+60 36 12.5		PI77						133.88	-00.09
HD 14633	02 19 46.515	-0.07	+41 15 10.44	+0.2	AGK3			+41°0238	037987	2854	140.78	-18.20
HD 14688	02 19 47.680	+0.35	+16 38 35.41	-1.6	AGK3			+16°0214	092905	2855	152.22	-40.76
AM Cas	02 21 51.		+71 04 30.		GCVS						130.45	+09.83
V559 Cas	02 21 54.217	+0.15	+61 19 28.35	-0.1	AGK3			+61°0230	012277	2895	133.91	+00.70
DM Per	02 22 25.963	-0.05	+55 52 40.13	-0.8	AGK3			+55°0253	023321		135.89	-04.38
RW Tri	02 22 41.45		+27 52 21.3		W83						147.02	-30.33
AB Cet	02 23 37.678	-0.32	-15 33 54.52	-3.1	Per70		4422		148386	2933	189.53	-65.08
66 And	02 24 29.671	+0.41	+50 20 51.62	-8.5	AGK3			+50°0276	023353	2944	138.18	-09.42
PQ And	02 26 22.18		+39 49 17.4								142.57	-19.06
MW And	02 28 21.		+39 28 08.								143.09	-19.23

Name	RA(1950)	μ(RA)	Dec(1950)	μ(Dec)	Pos Ref	FK4	SRS	AGK3	SAO	GC	l	b
HD 15558	02 28 54.018	0.00	+61 14 08.89	0.0	AGK3			+61°0243	012326		134.72	+00.92
29 Ari	02 30 09.520	-0.206	+14 48 52.07	+5.22	FK4Sup	2176	40444	+14°0227	092998	3055	156.28	-41.18
CC Eri	02 32 28.419	+0.53	-44 00 38.92	-30.1	SAO				215947	3097	258.49	-63.42
Feige 24	02 32 31.00	+0.56	+03 30 51.9	+0.1	(AC)						165.97	-50.27
30 Ari A	02 34 07.128	+0.94	+24 25 50.90	-1.1	AGK3			+24°0227	075471	3140	151.49	-32.31
HR 760	02 34 12.057	+0.27	+39 40 47.31	+0.8	AGK3			+39°0288	055715	3143	144.09	-18.59
WW Hor	02 34 32.2		-52 32 15.								272.23	-58.11
HR 780	02 36 23.832	+0.967	-38 12 17.97	-5.90	FK4Sup	2184	40462		193834	3176	245.54	-65.10
V615 Cas	02 36 40.574		+61 00 54.84		AC						135.68	+01.09
V493 Per	02 37 32.967	+0.08	+56 31 00.34	-0.4	AGK3			+56°0348	023526		137.59	-02.98
DO Cas	02 37 34.612	+0.63	+60 20 23.07	0.0	AGK3			+60°0286	012388		136.05	+00.51
NSV 00895	02 39 02.		+43 08 36.		NSV						143.43	-15.06
zet Hor	02 39 06.229	+0.460	-54 45 48.15	+0.60	FK4	1076	31076		232857	3246	274.43	-56.11
HR 791	02 40 29.543	+0.304	+67 36 50.37	-2.74	FK4	92		+67°0156	012421	3271	133.34	+07.27
UX For	02 41 25.470	+0.83	-38 08 20.27	-7.4	Per70		4613		193879		244.74	-64.19
TW Cas	02 41 44.344	+0.21	+65 30 58.93	+0.1	AGK3			+65°0180	012431		134.34	+05.42
RY Per	02 42 19.639	+0.05	+47 56 01.86	+1.0	AGK3			+47°0288	038304		141.86	-10.49
RZ Cas	02 44 22.790	+0.15	+69 25 33.10	+4.2	AGK3			+69°0134	012445	3345	132.89	+09.07
CU Eri	02 44 34.929	+0.37	-13 33 00.24	+3.8	SAO				148600		191.65	-59.71
WX Ari	02 44 54.5		+10 23 14.		PG						163.59	-42.92
RU Hor	02 45 01.		-63 47 36.		GCVS						283.91	-49.09
VY Ari	02 45 42.348	+1.71	+30 54 36.28	-17.7	AGK3			+30°0283	055899	3368	150.58	-25.38
pi Ari A	02 46 29.840	-0.12	+17 15 27.29	-1.8	AGK3			+17°0251	093127	3378	158.93	-37.04
PY Per	02 46 48.		+37 27		GCVS						147.46	-19.51
HR 839	02 47 59.551	-0.39	+58 06 32.59	+0.3	AGK3			+58°0296	023662	3413	138.20	-00.94
TX Cas	02 48 14.963	+0.06	+62 34 39.82	+0.3	AGK3			+62°0238	012477		136.26	+03.08
VZ Hor	02 50 42.701	+2.04	-61 49 26.69	+11.7	SAO				248669		281.11	-50.10

Name	Bayer	Flmstd	HR	HD	BD	CoD	CPD	Var	Other
gam2 And B	gam2 And B	57 And B	604	12534	+41°0395				45H And B; AFGL 294; IRC +40034
VW Tri								VW Tri	S 10913
SS Ari					+23°0279			SS Ari	264.1934; P 2530
kap Ari	kap Ari	12 Ari	613	12869	+21°0279				7H Ari
TT Ari					+14°0341			TT Ari	BV 150; X0204+150 (1ES, EXO, MS)
HD 13018				13018	+17°0315				
BX And				13078	+40°0442			BX And	CSV 192; SVS 995
bet Tri	bet Tri	4 Tri	622	13161	+34°0381				6H Tri; IRC +30034
UV Per								UV Per	87.1911
HD 12881				12881	+78°0071				
WX Hyi								WX Hyi	9.1932; HV 8016; P 60
UW Per								UW Per	21.1912
GZ And								GZ And	CSV 102376
TZ Tri	iot Tri A	6 Tri A	642 A	13480 A	29°0371 A			TZ Tri	7H Tri A; IRC +30036; X0209+300 (1ES)
iot Tri B	iot Tri B	6 Tri B	642 B	13480 B	29°0371 B				7H Tri B; IRC +30036; X0209+300 (1ES)
TZ Per								TZ Per	28.1912
HD 13716				13716	+57°0525				LS I +57°48; NSV 00761
RX Ari					+21°0306			RX Ari	268.1934; P 2539
V355 Per				13758	+57°0527			V355 Per	LS I +57°50
del Tri	del Tri	8 Tri	660	13974	+33°0395				9H Tri
V438 Per				13970	+55°0564			V438 Per	LS I +56°42
WY Tri								WY Tri	S 10919
BD +78°79					+78°0079				BV 263; CSV 5973; NSV 00786
HD 14384				14384	+53°0507				DHK 11
DN Cas					+60°0470			DN Cas	26.1940; LS I +60°230
HD 14633				14633	+40°0501				NSV 00812
HD 14688				14688	+16°0281				
AM Cas								AM Cas	258.1928
V559 Cas				14817	+60°0472			V559 Cas	
DM Per				14871	+55°0616			DM Per	43.1943; S 3370
RW Tri								RW Tri	5.1938; CSV 215
AB Cet			710	15144	-15°0426			AB Cet	248G Cet; Babcock 8; CSV 5987
66 And		66 And	709	15138	+49°0666				
PQ And								PQ And	N And 1988; TAV 0226+39
MW And								MW And	RR V-22

Name	Bayer	Flmstd	HR	HD	BD	CoD	CPD	Var	Other
HD 15558				15558	+60°0502				IC 1805-148; LS I +61°284
29 Ari		29 Ari	741	15814	+14°0419				
CC Eri				16157		-4400775	-44°00285	CC Eri	GI 103; RE 023420-4.4709; X0232-440 (1ES)
Feige 24									NSV 00864; EG 20; Feige 24; PG 0232+035;
30 Ari A		30 Ari A	765	16246	+24°0376				
HR 760			760	16219	+39°0582				
WW Hor								WW Hor	X0234-525 (EXO)
HR 780			780	16589		-3800875	-38°00208		38G For
V615 Cas								V615 Cas	INCA 1022; LS I +61°303; X0236+610 (1E,
V493 Per				16523	+56°0686			V493 Per	LS I +56°62; MR 4; WR 4
DO Cas				16506	+59°0529			DO Cas	43.1940
NSV 00895									CSV 239; NSV 00895; SVS 918
zet Hor	zet Hor		802	16920		-5500568	-55°00446		14G Hor
HR 791			791	16769	+67°0224				
UX For				17084		-3800899	-38°00218	UX For	INCA 2653; X0241-381 (1ES)
TW Cas				16907	+65°0289			TW Cas	37.1907; HV 2894
RY Per				17034	+47°0692			RY Per	120.1906; LS V +47°3
RZ Cas			815	17138	+69°0179			RZ Cas	77.1906; INCA 2601; X0244+694 (1ES)
CU Eri				17387	-13°0525			CU Eri	
WX Ari								WX Ari	PG 0244+104
RU Hor								RU Hor	HV 11902
VY Ari				17433	+30°0448			VY Ari	GI 113.1; SVS 2316; X0245+309 (1ES)
pi Ari A	pi Ari A	42 Ari A	836	17543	+16°0355				20H Ari A; CSV 100232; NSV 00944; Zi 154
PY Per								PY Per	S 9160
HR 839			839	17581	+57°0651				
TX Cas					+62°0480			TX Cas	38.1907; HV 2895; LS I +62°229
VZ Hor				18134		-6200114	-62°00238	VZ Hor	X0250-618 (1ES)

Name	Sp1	Sp2	T-JD 2400000	P	e	omel	V0	K1	K2	v1 sin i	v2 sin i
gam2 And B	B9.5V	B9.5V	36122.18	2.67	0.292	175.2	+2.5	141	112.5	70	70
VW Tri			38642.575	0.2989856							
SS Ari	F8V	G2	44469.5060	0.40599174	0	-	-3.2	77.8	257.3		
kap Ari	A2/5/7[V]m	[A5V]	21844.134	15.29385	0.608	359.19	+11.50	34.45	35.48	29	
TT Ari	sdBe	(M3V)	43729.0863	0.13755114	0	-	+4.6	65.4	210	350 e; 200 Wi	
HD 13018	A3V			<~8.	0	-	-	>~116.			
BX And	F2V		46915.35832	0.61011258	0	-	-45.1	105.5	212.3		
bet Tri	A5III	[G1V]	32004.255	31.3884	0.534	318.4	+15.2	33.3	69.2	76	
UV Per				0.0622							
HD 12881	A7(V)m	[A7V]	40088.46	4.12117	0.00	-	-33.9	74.6	79.4	<25.	<25.
WX Hyi	sdBe	(M5V)	43819.564	0.0748134	0	-	-6.	67			
UW Per				[0.108]							
GZ And	(G8V)	(G8V)	41976.695	0.305018							
TZ Tri	G5III	G5III:	22243.157	14.732	0.043	5.39	-19.09	56.53	56.98	37	30
iot Tri B	F5V	[F9V]	22654.278	2.2365	0	-	-19.8	95.4	101.0		
TZ Per				(0.300)							
HD 13716	B0.5III	[B1.5V]	33806.	344.48	0	-	+46.1	31.0		140	
RX Ari	F2V		38398.5697	1.029626							
V355 Per	B1IV	-		0.7074						>=230.	
del Tri	G0Ve	(G9V)	46697.69	10.02008	0	-	-6.60	10.49	11.89	1.6	
V438 Per	B1IV-V		43000.00	3.50924	0	-	-16.1	10.5			
WY Tri											
BD +78°79				[0.108]							
HD 14384	F5V	F5V	47863.4858	4.222017							
DN Cas	O8V	O8V	41388.571	2.310955							
HD 14633	ON8V	[B6V]	42007.3	15.335	0.68	166.3	-46.0	31.3		130	
HD 14688	A1[V]s	[F7V]	31705.497	4.31740	0.047	90.00	+13.86	59.54		55	
AM Cas				0.1058?							
V559 Cas	B9V	(B9.5V)	41357.560	1.58064							
DM Per	B6V	(A6 III)	41920.4550	2.7277425	0	-	-15.0	69.8	246.0		
RW Tri	sdBe	M0V?	41129.36487	0.231883297	0	-	+107.	197		671 Sh; 600 e; 506	
AB Cet	A6VpSrCrEu	[M4V]	33227.53	2.997814	0.0281	294	+1.95	17.88		7.7*	
66 And	F4V	F4V	37005.979	10.9903	0.184	271.3	-5.3	46.5	50.0		
PQ And										525. e	
MW And			37937.929	0.263770							

Name	Sp1	Sp2	T-JD 2400000	P	e	omel	V0	K1	K2	v1 sin i	v2 sin i
HD 15558	O5III(f)	[O9V]	40681.	439.3	0.54	116	-41.9	32.6		140	
29 Ari	F8V	[K0V]	46335.76	19.3787	0.391	184.2	+8.84	24.04	31.18	<=10.	
CC Eri	K7Ve	M0Ve	30001.182	1.56145	0.0461	63.83	+41.94	37.77	73.3:	~15.*	
Feige 24	DAZ1	M1-2V	47842.241	4.23177	0	-	+55.2	51.0	67.3 e		
30 Ari A	F6III	[M3.5V]	21946.382	1.109526	0.062	281.4	+14.37	22.41		60	
HR 760	B5V	[M1V]	20001.147	2.089920	0.048	230.5	+12.0	21.4		35	
WW Hor	sdBe		47126.12782	0.080199035	0	-	-		388. e	-	
HR 780	G0IV	[K5V]	30000.0297	3.16626	0.0	-	+42.57	53.57			
V615 Cas	B0-0.5Ve	x	43559.	26.496	0.6	45.8	-55.	<=24.		360	
V493 Per	WC5			2.4096	0	-	-	~35.			
DO Cas	A4V	(K4IV-V)	33926.4573	0.6846661	0	-	+33.	73		155	
NSV 00895				[0.108]							
zet Hor	F2V	F5V	33207.361	12.9274	0.25	78.6	+5.8	58.1	66.1		
HR 791	A5III	[F3V]	25320.613	2.53636	0	-	+4.3	55.1		35	
UX For	G5-8V		44000.512	0.95479	0.0	-	+19.3	92.0	113.1	*	
TW Cas	B9V	G5IV	42008.3873	1.4283240	0.0	-	-23.	87			
RY Per	B5Vealp	F6IV	41655.790	6.863569	0	-	-6.	50.1	175.8	280	
RZ Cas	A2.8V	G6IV	43200.3063	1.195247	0.0	-	-46.6	70.1		74	
CU Eri	G8/K0III [V]	(G8/K0V)		0.633798							
WX Ari	sdBe			0.1396							
RU Hor											
VY Ari	K0IVe		46478.03	13.19828	0.074	153.7	-2.75	30.35		8.6*	
pi Ari A	B6V	[K5V]	20370.259	3.854	0.042	78.27	+7.81	24.77		79	
PY Per	sdBe			[0.227]							
HR 839	A0/A7 m		24854.892	8.2504	0.227	212.74	-5.80	12.88		33	
TX Cas	B1V	(B7V)	46003.1893	2.926835							
VZ Hor	K1V(p)			~2.							

Name	Spectroscopic orbit
gam2 And B	Maestre, J.A., Wright, J.A. 1960, ApJ, 131, 119
VW Tri	
SS Ari	Lu, W. 1991, AJ, 102, 262
kap Ari	Jones, R.B. 1931, Lick Bull., 15, 117
TT Ari	Cowley, A.P., Crampton, D., Hutchings, J.B., Marlborough, J.M. 1975, ApJ 195, 413; Shafter, A.W., Szkody, P., Liebert, J., Penning, W.R.,
HD 13018	Woolley, R., et al. 1981, R. Obs. Ann., No. 14
BX And	Bell, S.A., Rainger, P.P., Hill, G., Hilditch, R.W. 1990, MN, 244, 328
bet Tri	Ebbighausen, E.G. 1959, Pub DAO, 11, 277
UV Per	
HD 12881	Margoni, R., Perinotto, M. 1969, Mem SAI, 40, 553
WX Hyi	Schoembs, R., Vogt, N. 1981, AAp, 97, 185
UW Per	
GZ And	
TZ Tri	Harper, W.E. 1921, Pub DAO, 2, 129
iot Tri B	Luyten, W.J. 1936, ApJ, 84, 85
TZ Per	
HD 13716	(Abt, H.A. 1970, ApJ Suppl., 19, 387; Petrie, R.M., Pearce, J.A. 1968, Pub DAO, 12, 1)
RX Ari	
V355 Per	
del Tri	Duquennoy, A., Mayor, M. 1988, AAp, 195, 129
V438 Per	(Abt, H.A. 1970, ApJ Suppl., 19, 387)
WY Tri	
BD +78°79	
HD 14384	
DN Cas	
HD 14633	Rogers, G.L. 1974, MSc Thesis, U. Toronto
HD 14688	Heard, J.F. 1949, Pub DDO, 1, 493
AM Cas	
V559 Cas	
DM Per	Hilditch, R.W., Hill, G., Khalesseh, B. 1992, MN, 254, 82
RW Tri	Kaitchuk, R.H., Honeycutt, R.K., Schlegel, E.M. 1983, ApJ, 267, 239
AB Cet	Bonsack, W.K. 1981, PASP, 93, 756
66 And	Northcott, R.J. 1965, unpub.
PQ And	
MW And	

Name	Spectroscopic orbit
HD 15558	Garmany, C.D., Massey, P. 1981, PASP, 93, 500
29 Ari	Lu, W. 1986, PASP, 98, 468
CC Eri	Evans, D.S. 1959, MN, 119, 526
Feige 24	Vennes, S., Thorstensen, J.R., Thejll, P., Shipman, H.L. 1991, ApJ, 372, L37; Thorstensen, J.R., Charles, P.A., Margon, B., Bowyer, S. 1978,
30 Ari A	Morbey, C.L., Brosterhus, E.B. 1974, PASP, 86, 455
HR 760	Hube, D.P. 1981, AAp Suppl., 44, 59
WW Hor	(Beuermann, K., Thomas, H.-C., Giommi, P., Tagliaferri, G. 1987, AstrAp, 175, L9)
HR 780	Bennet, N.W.W., et al. 1963, ROB, No. 78
V615 Cas	Hutchings, J.B., Crampton, D. 1981, PASP, 93, 486
V493 Per	Rustamov, D.N., Cherepashchuk, A.M. 1987, Astr. Tsirk., 1518, p. 1
DO Cas	Kaluzny, J. 1985, Acta Astr., 35, 327
NSV 00895	
zet Hor	Sahade, J., Hernandez, A. 1964, AnnAp, 27, 11
HR 791	Luyten, W.J. 1936, ApJ, 84, 85
UX For	Collier-Cameron, A., Lloyd-Evans, T., Balona, L.A. 1988, MN, in press
TW Cas	Struve, O. 1950, ApJ, 112, 184
RY Per	Popper, D.M. 1989, ApJ Suppl., 71, 595
RZ Cas	Duerbeck, H.W., Hänel, A. 1979, AAp Suppl., 38, 155
CU Eri	
WX Ari	
RU Hor	
VY Ari	Duquennoy, A., Mayor, M. 1988, AAp, 195, 129
pi Ari A	Young, R.K. 1917, Pub Dom. Obs., 4, 69
PY Per	
HR 839	Harper, W.E. 1927, Pub DAO, 4, 39
TX Cas	
VZ Hor	

Name	V	B-V	U-B	R-I	E(B-V)	par	Cluster	ADS	Vis Binary	Companions
gam2 And B	4.84	+0.03	-0.12		0.05	0.013; D0.010		1630 B	OSig 38 A (orb); Sig 6.3, A0V, 0.296"	
VW Tri	13.9 p									
SS Ari	10.13	+0.62	+0.10							
kap Ari	5.03	+0.11	+0.13	+0.03	0.00					
TT Ari	11.13	-0.04	-0.88		0.00 u					
HD 13018	6.5 v									
BX And	8.870	+0.450	+0.034					1671 A	Sig 215 A	9.7v, 20"
bet Tri	3.00	+0.14	+0.10	+0.08	0.01	0.022;	Hyades scl			
UV Per	11.0 v				0.0 u					
HD 12881	7.17	+0.29	+0.08		0.04				S 405 B	13.9, 56"
WX Hyi	11.82 v	-0.06	-0.70		0.00 u					
UW Per	13.5 p				0.19 m					
GZ And	10.86	+0.75	+0.26					1693 A	h 2117 A	
TZ Tri	4.94 D	+0.78	+0.31		0.00	0.004		1697 A	Sig 227 A	6.76, F5V, 3.8"
iot Tri B	4.94 D	+0.78	+0.31		0.00	0.004		1697 B	Sig 227 B	5.16, G5III, 3.8"
TZ Per	12.0 v				0.24 u		<Sk 2>			
HD 13716	8.27	+0.32	-0.59		0.60		Per OB1			
RX Ari	9.40									
V355 Per	9.05	+0.33	-0.53		0.53		Per OB1			
del Tri	4.87	+0.61	+0.02	+0.24E	0.00	0.093	(61 Cyg)	1739 A	Dorpat 66 A	
V438 Per	8.30 D	+0.14	-0.64				<Per OB1>; <N	1748 A	A 1272 A	10.9, 1.2"
WY Tri	13.8 p									
BD +78°79	12. p				0.08 m					
HD 14384	6.87	+0.43								
DN Cas	9.81	+0.70	-0.36				Cas OB6			
HD 14633	7.46	-0.21	-1.09		0.08				bet pm C	
HD 14688	6.79	+0.15	+0.12		0.09					
AM Cas	12.3 p				0.20 m					
V559 Cas	7.01	+0.21	-0.15			D0.008		1833 A	Sig 257 A (orb)	7.90V, 0.682"
DM Per	7.86	+0.10	-0.41							
RW Tri	13.18	+0.15	-0.69		0.10 u					
AB Cet	5.83 D	+0.15	+0.10	+0.04	0.00	0.015	UMa	1849 A	H III 80 A	9.30, 12"
66 And	6.12	+0.41			0.00					
PQ And	10.1 v									
MW And	15.00 p									

Name	V	B-V	U-B	R-I	E(B-V)	par	Cluster	ADS	Vis Binary	Companions
HD 15558	7.84	+0.52	-0.56		0.82		(IC 1805)	1920 A	Stein 368 A	
29 Ari	6.04	+0.54	+0.04		0.00					
CC Eri	8.76	+1.39	+1.06	+0.78	0.00	0.088				
Feige 24	12.35	-0.23	-1.22			0.0135				
30 Ari A	6.50	+0.41	+0.02		0.00	0.018		1982 A	Sig I 5 A	7.37, 38.3"
HR 760	6.54	-0.12	-0.48		0.07					
WW Hor	17.77			+0.5						
HR 780	6.49	+0.52			0.00					
V615 Cas	10.73	+0.79	-0.33	+0.65	0.90 u		Cas OB6			
V493 Per	10.75	+0.12			0.81 u	-0.012				
DO Cas	8.39				0.08					
NSV 00895	11.7 p				0.08 m		NGC 1039?			
zet Hor	5.21	+0.40	-0.01		0.00	0.031				
HR 791	5.95	+0.10	+0.17		0.00					
UX For	8.04	+0.73	+0.21	+0.43C		0.0313				
TW Cas	8.32				0.15 m					
RY Per	8.50	+0.11	-0.42							
RZ Cas	6.18	+0.18	+0.10		0.03					
CU Eri	8.0 p				0.02 m				Rst 3371 A	
WX Ari	15.34	+0.2	-0.7							
RU Hor	13.9 p									
VY Ari	6.80	+0.96	+0.63:	+0.53C		0.053				
pi Ari A	5.22 D	-0.06	-0.47		0.06			2151 A	Sig 311 A	8.2, 0.00004"; 8.8v, 3.2"; 10.72V, +
PY Per	13.8 p				0.14 m					
HR 839	6.45	+0.10	+0.08	+0.03					bet pm A	del m=2.8, 192.7"
TX Cas	9.148	+0.34	-0.38		0.63		Cas OB6			
VZ Hor	8.75			+0.345						

Name	Vbl type	Min I	Min II	D	d	i	r1	r2	l1	qph
gam2 And B						69.22 se	0.189 ome	0.189 ome		
VW Tri	EW/KW	14.4 p	14.4 p							
SS Ari	EW/KW	10.63	10.56			75.34	0.4926	0.2866	0.7165 V	0.3023
kap Ari						24.90 s	0.124 ome		0.52 s	
TT Ari	UGZ					34.61 p				
HD 13018										
BX And	EW/DW:	9.529	9.122			74.55	0.4484	0.3264	0.9396 V	
bet Tri						61.05 s	0.277 ome		0.75 s	
UV Per	UGSS	16.82				57.63 pi				
HD 12881						51.07 s	<0.16 ome	<0.16 ome		
WX Hyi	UGSU	14.69				39.88 p				
UW Per	UG:	18.8: p				57.63 pi				
GZ And	EW/KW	11.61	11.58			81.0	0.42	0.30	0.64 V	0.62
TZ Tri	ELL/RS					50.34 s	0.32 ome	0.26 ome	0.56 s	
iot Tri B						65.45 s			0.64 s	
TZ Per	UGZ	14.67								
HD 13716	E:	(0.1 p)				62.66 pi				
RX Ari	EA/DM:	9.93	9.50	0.18	0.02	81.33	0.383	0.218	0.9981 y	0.2748
V355 Per	E:	9.09				25.70 ome				
del Tri						10.48 s	0.071 ome		0.86 b s	
V438 Per	ELL									
WY Tri	UG	<17.0 p								
BD +78°79	UG:	14. p				57.63 pi				
HD 14384		7.42	7.40	0.050						
DN Cas	EA/DM	10.24	10.13	0.15		84.	0.372	0.284	0.68 V	0.66
HD 14633	-					48.14 pi				
HD 14688						63.30 pi				
AM Cas	UGSS	15.2 p				57.63 pi				
V559 Cas	EA	7.23	7.21	0.12		77.	0.242	0.229	0.55 V	0.92
DM Per	EA/SD	8.59	8.02	0.17; 0.17	0.000	79.5	0.260	0.274	0.735 B*	
RW Tri	EA/WD+NL			[0.078]						
AB Cet	ACV:					53.26 pi				
66 And						46.92 s				
PQ And	NA	18.8 B								
MW And	EW/KW	15.76 p	15.5 p							

Name	Vbl type	Min I	Min II	D	d	i	r1	r2	l1	qph
HD 15558										
29 Ari						58.08 pi				
CC Eri	BY+UV	9.03				30.95 s	<=0.10 ome			
Feige 24	ZZC:					38.58 s	0.13 ome			
30 Ari A						41.				
						25.10 ome				
HR 760										
WW Hor	E+XM	19.9		[0.0677]		49.58 pi				
HR 780						74.				
V615 Cas	Unique					58.57 pi				
V493 Per	WR									
DO Cas	EB/KE	9.01	8.61		0.08	87.8	0.479	0.281	0.9851 V	0.325
NSV 00895	UG/SN	>20. p				57.63 pi				
zet Hor						76.11 s				
HR 791						38.49 ome				
UX For	RS									
TW Cas	EA	8.98	8.40	0.16		81.9	0.312	0.224	0.992	0.413
RY Per	EA/SD	10.25	8.65	0.12	0.014	81.647	0.1258	0.2796	0.7417 V	0.3037
RZ Cas	EA/SD	7.72	6.26	0.17	0.000-0.009	82.65	0.229	0.289	0.899	(0.3363)
CU Eri	CST	8.6 p	8.6 p			87.1	0.214	0.214	0.500	
WX Ari	NL									
RU Hor	UGSS	17.5: p								
VY Ari	BY+UV									
pi Ari A	-					52.13 pi				
PY Per	UGZ	16.5 p				57.63 pi				
HR 839										
TX Cas	EB/DM	9.64	9.44			76.10	0.4753	0.2797	0.868	0.304
VZ Hor	BY	8.88								

Name	Photometric solution
gam2 And B	
VW Tri	(Meinunger, L. 1986, MVS, 11, 1)
SS Ari	Lu, W. 1991, AJ, 102, 262
kap Ari	
TT Ari	
HD 13018	
BX And	Bell, S.A., Rainger, P.P., Hill, G., Hilditch, R.W. 1990, MN, 244, 328
bet Tri	
UV Per	
HD 12881	
WX Hyi	
UW Per	
GZ And	Svechnikov, M.A., Kuznetsova, E.F. 1990, Katalog Priblizhennykh Fotometricheskikh i Absolyutnykh Elementov Zatmennykh Peremennykh Zvez
TZ Tri	(Hall, D.S., Henry, G.W., Louth, H., Lovell, L.P., Stephan, C. 1980, IBVS 1764)
iot Tri B	
TZ Per	
HD 13716	
RX Ari	Wilson, R.E., Rafert, J.B. 1980, AAp Suppl., 42, 195
V355 Per	(Hill, G. 1967, ApJ Suppl, 14, 301)
del Tri	
V438 Per	(Burki, G., Rufener, F. 1978, AAp, 70, 105)
WY Tri	
BD +78°79	
HD 14384	(Kaiser, D.H. 1990, Sky Tel., 79, 188; Williams, D.B., Landis, H.J., Pray, D. 1990, IBVS 3479)
DN Cas	Svechnikov, M.A., Kuznetsova, E.F. 1990, Katalog Priblizhennykh Fotometricheskikh i Absolyutnykh Elementov Zatmennykh Peremennykh Zvez
HD 14633	
HD 14688	
AM Cas	
V559 Cas	Svechnikov, M.A., Kuznetsova, E.F. 1990, Katalog Priblizhennykh Fotometricheskikh i Absolyutnykh Elementov Zatmennykh Peremennykh Zvez
DM Per	Hilditch, R.W., Hill, G., Khalesseh, B. 1992, MN, 254, 82
RW Tri	(Horne, K., Stiening, R.F. 1985, MN, 216, 933)
AB Cet	
66 And	
PQ And	
MW And	(Kinman, T.D., Mahaffey, C.T., Wirtanen, C.A. 1982, AJ, 87, 314)

Name	Photometric solution
HD 15558	
29 Ari	
CC Eri	
Feige 24	Thorstensen, J.R., Charles, P.A., Margon, B., Bowyer, S. 1978, ApJ, 223, 260
30 Ari A	
HR 760	
WW Hor	Bailey, J., Wickramasinghe, D.T., Hough, J., Cropper, M.S. 1988, MN, 234, 19P
HR 780	
V615 Cas	
V493 Per	
DO Cas	Kaluzny, J. 1985, Acta Astr., 35, 327
NSV 00895	
zet Hor	
HR 791	
UX For	
TW Cas	Mardirossian, F., et al. 1980, AAp Suppl., 39, 235
RY Per	Van Hamme, W., Wilson, R.E. 1986, AJ, 92, 1168
RZ Cas	Chambliss, C.R. 1976, PASP, 88, 22
CU Eri	(Przybylski, A. 1968, Inf. Bull. Southern Hemisphere, No. 12)
WX Ari	
RU Hor	
VY Ari	
pi Ari A	
PY Per	
HR 839	
TX Cas	Zhai, D.-S., Zhang, R.-X., Zhang, J.-T., Li, Q.-S. 1987, Acta Astr. Sin., 28, 71 (1988, Chin. Astr. Ap., 12, 60)
VZ Hor	

Name	M1	M2	A	R1	R2	T1	T2	log L1	log L2	Distance	U	V	W
gam2 And B	2.15 s	2.69 s								102. spid			
VW Tri													
SS Ari	1.34	0.41											
kap Ari	1.85 s	1.79 s								59.8 s			
TT Ari	1.24	0.39 p								204. k			
HD 13018													
BX And	1.51	0.75											
bet Tri	2.14 s	1.03								42.4 spi			
UV Per	0.71 p	0.24 p											
HD 12881	1.71 s	1.61 s								126. s			
WX Hyi	0.53 p	0.167 p								290. p			
UW Per	0.71 p	0.28 p								400. p			
GZ And													
TZ Tri	2.45 s	2.44								66.3 s			
iot Tri B	1.20 s	1.14								66.3 s			
TZ Per													
HD 13716	20.65 s	11.67 pi								1840. s			
RX Ari													
V355 Per	15.14 s									1700. s			
del Tri	1.05 s	0.92								10.8 pi			
V438 Per													
WY Tri													
BD +78°79	0.71 p	0.28 p								246. p			
HD 14384													
DN Cas													
HD 14633	30.20 s	3.77 pi								2740. s			
HD 14688	2.19 s	1.13 pi								124. s			
AM Cas	0.89 p	0.72 p								289. p			
V559 Cas													
DM Per	7.29	2.07											
RW Tri													
AB Cet	1.74 s	0.24 pi								57.3 spi			
66 And	1.30 s	1.20 s								48.5 s			
PQ And													
MW And													

Name	M1	M2	A	R1	R2	T1	T2	log L1	log L2	Distance	U	V	W
HD 15558	77.62 s	25.38 pi								2050. s			
29 Ari	1.10 s	0.85								26.4 s			
CC Eri	0.60 s	0.31								11.4 pi			
Feige 24													
30 Ari A	1.54 s	0.40								87.1 s			
HR 760	4.79 s	0.51 pi								266. s			
WW Hor													
HR 780	1.26 s	0.67 pi								52.7 s			
V615 Cas	17.89 s									2000. HI			
V493 Per													
DO Cas	1.41	0.46								216. phi			
NSV 00895	0.71 p	0.28 p								213. p			
zet Hor	1.36 s	1.19 s								33.1 spi			
HR 791	2.14 s	1.29								112. s			
UX For													
TW Cas	2.85	1.18								306. phi			
RY Per	6.59	1.88											
RZ Cas	2.05	0.69								72.8 phi			
CU Eri	0.88 s	0.88 s								26.1 s			
WX Ari													
RU Hor													
VY Ari													
pi Ari A	4.07 s	0.65 pi								126. s			
PY Per	0.89 p	0.74 p								619. p			
HR 839													
TX Cas	12.88 s	3.92 phi								2390. phi			
VZ Hor													

Name	Notes
gam2 And B	Vis. orb: P=61.1y, T=1952.1, a=0.296", e=0.93, i=111.1°, ome=171.15°, Ome=104.15° (Muller, P. 1957, J.Obs., 40, 52)
VW Tri	
SS Ari	
kap Ari	del m=0.10
TT Ari	Twd=50000K
HD 13018	
BX And	
bet Tri	del m=1.19
UV Per	UG
HD 12881	
WX Hyi	
UW Per	UG? Not a CV: G.A. Richter 1987, AN, 308, 125
GZ And	i=78.7, r1=0.401, r2=0.357, l1=0.557, qph=0.779 (lc: Walker, R.L. 1973, IBVS 855)
TZ Tri	del m=0.24:; Prot=7.342d
iot Tri B	del m=0.61
TZ Per	UGZ
HD 13716	E? (Amp 0.06V)
RX Ari	
V355 Per	[Not ecl; prob betCep]
del Tri	del mb=2.0
V438 Per	Ell (del V=0.06)
WY Tri	UG
BD +78°79	UG:
HD 14384	
DN Cas	Alternative lc soln: i=71, r1=0.40, r2=0.35, l1=0.60p, q=0.78; i=81.20, r1=0.323, r2=0.194, l1=0.782 V (lc: Frazier, T.H., Hall, D.S. 19
HD 14633	
HD 14688	
AM Cas	UGSS
V559 Cas	Vis. orb: P=836.0y, T=1932.19, a=0.795", e=0.69, i=45.4°, ome=171.1°, Ome=133.7° (Zaera, J.A. 1985, Circ. Inf., No. 96); B8V+(B8V
DM Per	*l3=0.11 B; Triple system: P=97.976d, KA=26.5; T3=10000K
RW Tri	
AB Cet	alpCV(5.71-5.88); *Prot=Porb; ome1 est
66 And	
PQ And	WZ Sge type?
MW And	

Name	Notes
HD 15558	
29 Ari	
CC Eri	BY?; *Pphtm=1.561d
Feige 24	T1=55000+/-5360 K; log g1=7.23+/-0.35; gam1grav=14.1+/-5.2 km/s
30 Ari A	
HR 760	
WW Hor	AM
HR 780	
V615 Cas	
V493 Per	Var (del V=0.03)
DO Cas	
NSV 00895	UG/SN
zet Hor	
HR 791	
UX For	RS; *Pphtm=0.957d
TW Cas	del m=2.59V
RY Per	del m=0.9
RZ Cas	del m=2.4
CU Eri	cst
WX Ari	
RU Hor	
VY Ari	BY (del V=0.179); *Prot=18d
pi Ari A	
PY Per	UGZ
HR 839	
TX Cas	U=32y
VZ Hor	BY

Name	RA(1950)	μ(RA)	Dec(1950)	μ(Dec)	Pos Ref	FK4	SRS	AGK3	SAO	GC	l	b
HR 906	03 03 48.046	-2.135	+81 16 50.48	-0.40	FK4Sup	3946		+81°0081	000500	3715	128.14	+20.05
bet Per	03 04 54.356	+0.031	+40 45 52.46	+0.24	FK4	111		+40°0360	038592	3733	148.98	-14.90
SZ Hor	03 05 40.		-56 19 36.		GCVS						272.46	-52.21
V432 Per	03 06 51.669		+42 40 49.58		AC						148.29	-13.08
UX Eri	03 07 24.89		-07 04 53.0								187.70	-51.44
PG 0308+096	03 08 12.9		+09 38 09.		PG						170.20	-39.92
V368 Cas	03 08 36.873	0.00	+59 43 56.04	+1.1	AGK3			+59°0325	023874		139.77	+01.75
CC Cas	03 10 07.368	-0.087	+59 22 38.39	+0.22	FK4Sup	2227		+59°0326	023886	3836	140.12	+01.54
EF Eri	03 12 00.02	+1.06	-22 46 47.1	-7.0	(W83)						212.94	-57.41
QY Per	03 12 21.		+42 16		GCVS						149.39	-12.88
V423 Per	03 12 53.372	+0.41	+34 30 18.42	-3.9	AGK3			+34°0336	056296	3888	153.87	-19.35
zet Eri	03 13 24.143	-0.055	-09 00 15.50	+4.87	FK4	1091	31091		130387	3899	191.58	-51.31
29 Per	03 15 03.309	+0.16	+50 02 26.55	-0.1	AGK3			+50°0356	023944	3934	145.60	-06.06
V336 Per	03 19 39.		+41 27		GCVS						151.02	-12.84
WX Eri	03 21 50.132	+0.21	-00 52 47.00	-3.7	AGK3			-0°0358			183.64	-44.80
HD 21155	03 23 07.509	-0.16	+40 17 02.83	+0.1	AGK3			+40°0395	038830		152.25	-13.43
UX Ari	03 23 33.019	+0.37	+28 32 32.53	-10.4	AGK3			+28°0359	075927	4089	159.55	-22.91
HD 21279	03 24 24.530	+0.24	+47 33 47.66	0.0	AGK3			+47°0369	038847		148.26	-07.29
xi Tau	03 24 27.329	+0.391	+09 33 35.17	-3.46	FK4	123	30123		111195	4107	174.01	-37.25
HR 1034	03 24 29.041	-0.07	+48 53 24.91	-1.3	AGK3			+48°0399	038849	4108	147.52	-06.19
Fornax DN	03 24 49.		-34 37 00.								235.08	-56.06
GK Per	03 27 47.529	-0.084	+43 44 04.67	-1.68	( )						150.96	-10.10
HR 1056	03 27 54.488	-0.14	+49 02 24.24	+1.8	AGK3			+49°0425	038906	4177	147.90	-05.74
AF Cam	03 28 14.510		+58 37 12.80		BFW87						142.45	+02.24
TU Hor	03 29 00.652	+0.701	-47 32 42.06	+2.84	FK4Sup	2250	40642		216357	4212	256.87	-53.00
X0329-261	03 29 56.8		-26 07 01.								220.40	-54.21
IW Per	03 30 16.731	+0.104	+39 43 57.63	-3.14	FK4Sup	2254		+39°0412	056538	4236	153.72	-13.09
eps Eri	03 30 34.355	-6.619	-09 37 34.76	+1.94	FK4	127			130564	4244	195.86	-48.04
CS 22176-2	03 31 26.	+0.65	-09 01	-10.5							195.24	-47.54
tau5 Eri	03 31 34.657	+0.289	-21 47 57.95	-2.42	FK4	1099	31099		168634	4258	213.52	-52.78
IX Per	03 31 53.836	+0.419	+31 51 04.16	-4.24	FK4Sup	2255	40652	+31°0338	056559	4264	158.92	-19.20
UZ For	03 33 20.89		-25 54 17.4								220.31	-53.42
V837 Tau	03 34 10.194	+1.80	+25 49 51.24	-27.6	AGK3			+25°0318	076031	4310	163.39	-23.57
V711 Tau	03 34 13.130	+0.02	+00 25 32.96	-14.8	AGK3			+0°0310	111291	4311	184.91	-41.57
11 Tau	03 37 46.777	+0.069	+25 10 09.75	-1.00	FK4	1103	31103	+25°0325	076073	4382	164.54	-23.55

Name	RA(1950)	μ(RA)	Dec(1950)	μ(Dec)	Pos Ref	FK4	SRS	AGK3	SAO	GC	l	b
del Eri	03 40 51.035	-0.673	-09 55 53.05	+74.60	FK4	135	30135		130686	4450	198.10	-46.00
omi Per	03 41 10.603	+0.09	+32 07 53.49	-1.2	Per70		40677	+32°0349	056673	4461	160.36	-17.74
17 Tau	03 41 54.055	+0.138	+23 57 27.82	-4.18	FK4	136	30136	+23°0302	076131	4477	166.18	-23.85
V969 Tau	03 42 42.7		+24 45 06.								165.75	-23.14
HD 23410	03 42 51.373	+0.13	+22 59 32.97	-4.5	AGK3			+22°0344	076156	4501	167.06	-24.42
29 Tau A	03 43 00.821	+0.099	+05 53 41.52	-0.70	FK4	1104	31104	+5°0394	111400	4505	181.28	-36.39
AH Tau	03 44 12.2	-0.25	+24 57 51.	-4.9							165.88	-22.75
eta Tau	03 44 30.424	+0.145	+23 57 07.57	-4.35	FK4	139	30139		076199	4541	166.67	-23.45
HD 23642	03 44 30.587	+0.15	+24 08 07.14	-4.5	AGK3			+24°0347	076200	4542	166.53	-23.32
HR 1163	03 44 41.964	+0.03	+33 26 48.35	-1.2	AGK3			+33°0355	056709	4548	160.08	-16.25
EQ Tau	03 45 16.	+0.55	+22 10 12.	-2.4	GCVS						168.13	-24.65
V660 Tau	03 45 30.2		+23 08 57.								157.44	-23.90
V545 Tau	03 45 50.6		+23 49 33.								167.01	-23.34
V467 Per	03 46 22.636	-0.20	+32 56 23.13	-0.1	Per70		40710	+32°0360	056727	4592	160.70	-16.42
DS Eri	03 47 28.63		-42 45 59.0		AC						248.10	-50.93
V471 Tau	03 47 33.42	+0.82	+17 05 46.2	-2.0	( )						172.47	-27.93
BV Eri	03 49 30.314	-0.34	-10 40 39.05	-13.4	SAO				149215		200.48	-44.50
zet Per	03 50 58.959	+0.050	+31 44 12.55	-0.87	FK4	144	30144	+31°0368	056799	4688	162.29	-16.69
RU Eri	03 52 25.246	+0.07	-15 04 49.57	-6.2	SAO				149243		206.54	-45.79
43 Per	03 52 52.755	+1.07	+50 33 09.32	-13.6	AGK3			+50°0410	024314	4728	150.20	-02.10
V817 Tau	03 54 05.621	+0.09	+23 01 55.17	-1.8	Per70		40737	+23°0354	076343	4747	169.10	-22.63
eps Per	03 54 29.432	+0.152	+39 52 02.54	-2.45	FK4	147			056840	4759	157.35	-10.09
HD 24733	03 54 45.698	+0.12	+53 50 46.90	-0.5	AGK3			+53°0347	024324	4764	148.31	+00.61
xi Per	03 55 42.825	+0.026	+35 38 56.50	+0.13	FK4	148	30148	+35°0395	056856	4779	160.37	-13.11
IQ Per	03 56 06.773	+0.25	+48 00 36.22	-1.9	AGK3			+48°0456	039231		152.24	-03.72
tau9 Eri	03 57 47.488	+0.085	-24 09 24.93	+1.55	FK4Sup	2287	40745		169017	4801	219.65	-47.62
lam Tau	03 57 54.378	-0.049	+12 21 02.13	-0.92	FK4	150	30150		093719	4805	178.37	-29.38
GR Tau	03 58 08.17		+20 16 30.5		AC						171.93	-23.91

Name	Bayer	Flmstd	HR	HD	BD	CoD	CPD	Var	Other
HR 906			906	18778	+80°0097				CSV 100253; NSV 01042; Zi 165
bet Per	bet Per	26 Per	936	19356	+40°0673			bet Per	Algol; 19H Per; AFGL 443; INCA 1026; IRC
SZ Hor							-56°00495	SZ Hor	BV 991; CSV 275; S 4812
V432 Per								V432 Per	S 10154
UX Eri					-7°0553			UX Eri	16.1931
PG 0308+096									PG 0308+096; WD 0308+096
V368 Cas				19644	+59°0607			V368 Cas	BV 265
CC Cas				19820	+59°0609			CC Cas	255.1930; INCA 1027; LS I +59°174
EF Eri								EF Eri	X0312-227 (3A,1ES,1H)
QY Per								QY Per	S 9178
V423 Per			976	20210	+34°0610			V423 Per	CSV 6018
zet Eri	zet Eri	13 Eri	984	20320	-9°0624				7H Eri; 73G Eri; NSV 01088
29 Per		29 Per	987	20365	+49°0899				Mel 20-383
V336 Per								V336 Per	S 9180
WX Eri				21102	-1°0484			WX Eri	201.1907; HV 3037; Zi 185
HD 21155				21155	+39°0784				DHK 9
UX Ari				21242	+28°0532			UX Ari	GI 141.1; INCA 1028; X0323+285 (3A,AT,I
HD 21279				21279	+47°0831				Mel 20-775
xi Tau	xi Tau	2 Tau	1038	21364	+9°0439				2H Tau; 4G Tau; X0324+095 (1ES)
HR 1034			1034	21278	+48°0920				Mel 20-774
Fornax DN									Fornax DN
GK Per			1057	21629	+43°0740a			GK Per	3.1901; N Per 1901; X0327+437 (3A)
HR 1056			1056	21620	+48°0938				7.1944; CSV 308; Mel 20-934; NSV 01173
AF Cam								AF Cam	SVS 1153
TU Hor			1081	21981		-47°01071	-47°00351	TU Hor	44G Hor; CSV 6035
X0329-261									X0329-261 (EXO)
IW Per			1078	21912	+39°0811			IW Per	
eps Eri	eps Eri	18 Eri	1084	22049	-9°0697				9H Eri; 101G Eri; AFGL 497; GI 144; IRC -1
CS 22176-2									BPM 71214; CS 22176-2
tau5 Eri	tau5 Eri	19 Eri	1088	22203	-22°0628	-22°01238	-22°00381		10H Eri; 103G Eri
IX Per				22124	+31°0616			IX Per	
UZ For								UZ For	X0333-259 (EXO)
V837 Tau				22403	+25°0580			V837 Tau	INCA 2654; G 6-20
V711 Tau			1099	22468	+0°0616			V711 Tau	10G Tau; CSV 6039; INCA 1029; X0334+00
11 Tau		11 Tau	1118	22805	+24°0529				

Name	Bayer	Flmstd	HR	HD	BD	CoD	CPD	Var	Other
del Eri	del Eri	23 Eri	1136	23249	-10°0728			del Eri	11H Eri; 121G Eri; AFGL 513; GI 150; IRC -
omi Per	omi Per	38 Per	1131	23180	+31°0642			omi Per	31H Per; CSV 100301; Zi 208
17 Tau		17 Tau	1142	23302	+23°0507				7H Tau; Mel 22-468
V969 Tau				23386	+24°0551			V969 Tau	Mel 22-739
HD 23410				23410	+22°0545				Mel 22-801; NSV 01280
29 Tau A	u1 Tau	29 Tau A	1153	23466	+5°0539				11H Tau A; 17G Tau A
AH Tau								AH Tau	HV 6187; Mel 22-1314
eta Tau	eta Tau	25 Tau	1165	23630	+23°0541				Alcyone; 10H Tau; IRC +20063; Mel 22-143
HD 23642				23642	+23°0540				Mel 22-1431
HR 1163			1163	23625	+33°0717				CSV 102422; NSV 01305
EQ Tau								EQ Tau	CSV 347; HV 6189; P 2586
V660 Tau								V660 Tau	Mel 22-1883
V545 Tau								V545 Tau	Mel 22-2034
V467 Per	n Per	42 Per	1177	23848	+32°0667			V467 Per	32H Per; SVS 2383
DS Eri						-42°01258	-42°00365	DS Eri	CSV 357; S 4822
V471 Tau					+16°0516			V471 Tau	GH 7-23; WD 0347+171; X0347+170 (1ES)
BV Eri				24327	-10°0763			BV Eri	168.1932; CSV 359; P 118
zet Per	zet Per	44 Per	1203	24398	+31°0666				34H Per; CSV 100357; IRC +30068; NSV 01
RU Eri				24658	-15°0686			RU Eri	205.1907; HV 3041
43 Per	A Per	43 Per	1210	24546	+50°0860				33H Per
V817 Tau		33 Tau	1221	24769	+22°0607			V817 Tau	
eps Per	eps Per	45 Per	1220	24760	+39°0895			eps Per	35H Per; CSV 100363; LS V +39°1; Zi 263
HD 24733				24733	+53°0718				
xi Per	xi Per	46 Per	1228	24912	+35°0775			xi Per	36H Per; CSV 100364; LS V +35°1; NSV 01
IQ Per				24909	+47°0920			IQ Per	CSV 368; S 4724
tau9 Eri	tau9 Eri	36 Eri	1240	25267		-24°02022	-24°00493	tau9 Eri	17H Eri; 161G Eri
lam Tau	lam Tau	35 Tau	1239	25204	+12°0539			lam Tau	15H Tau
GR Tau					+20°0685			GR Tau	BV 152

Name	Sp1	Sp2	T-JD 2400000	P	e	omel	V0	K1	K2	v1 sin i	v2 sin i
HR 906	A7/A7/F2III-IV		36839.948	11.665	0.29	286.0	-7.4	4.45		41	
bet Per	B7.7Ve	G8III	45641.2969	2.8673043	0.015	62	+6.0	44.0	201	49	
SZ Hor	[F2]	(F5)	28048.610	0.4804562							
V432 Per	[G4]	(F9)	35874.376	0.321517							
UX Eri	G0V	G0V	41922.3195	0.44527942							
PG 0308+096	DA4	M2-3V	46377.9432	0.289114	0	-	+6.4		116.9 e		
V368 Cas	B3III		45435.3089	4.4516321							
CC Cas	O9.3IV	O9IV	43816.829	3.368753	0.1019	300.78	-4.19	141.65	291.79	148	
EF Eri	sdBe	M4+	45369.0031	0.0562660082	0	-	-73:		425. e	664 Wi	
QY Per				(0.071 <~ Porb <~ 0.210 ACP)							
V423 Per	A2/A9/F2[V]m		26483.73	5.543491	0.026	72	+24.2	62.7			
zet Eri	A2.5/A6/F0(	[M0V]	43051.07	17.9297	0.14	122	-5.8	21.5		66	
29 Per	B3V			1.996933	0	-	-7.	20.		156	
V336 Per				(0.108)							
WX Eri	F3V	G8V	27531.687	0.82327038							
HD 21155	B8		35988.336	3.0452976							
UX Ari	G5IV/V	K0IVealp	40133.766	6.43791	0	-	+26.5	66.7	59.4	6.*	37
HD 21279	B8V		47521.4	21.222	0.74	183	+4.	21		200	
xi Tau	B9V	B9V		7.1466						33	
HR 1034	B5V	[F3V]	46714.5	21.695	0.12	109	+1.2	22.7	49	53	
Fornax DN											
GK Per	sdBe	K2IVp	44912.467	1.996803	0	-	+28.	34.	124.	249 Wi	
HR 1056	A0Vn		30830.56	5.363						230	
AF Cam				0.238:	0	-	+46.	59.		232 e	
TU Hor	A1V	K	43055.620	0.935971	0	-	+44.6	28.1		70	
X0329-261	sdBe	dM4.5	47092.690	0.1586	0	-	+93.	60.			
IW Per	A2.5/5/7[V]m	[F9V]	00000.543	0.9171885	0.020	106.9	+0.2	99.3		101	
eps Eri	K2V		47819.2	10.75						<17	
CS 22176-2	dK-M	wd		0.181	0	-	-	220.			
tau5 Eri	B8V	B8V	24447.048	6.2236	0.20	313	+15.0	107	103	48	39
IX Per	F2IV-V	[K5V]	29146.698	1.326363	0.024	32.6	-4.90	63.67			
UZ For	sdBe	M4.5Ve	45567.17622	0.087865458	0	-	0.:		395. e		
V837 Tau	G2V	K[4]V	41926.590	1.9299395	0.035	266.0	-19.4	77.8	124.7	30.*	19
V711 Tau	K1IVealp	G5IV/Veal	42764.661	2.83774	0.0	-	-15.0	49.4	61.7	38.*	13
11 Tau	A2IV	(F1V)	21876.0	20.4870	0.61	323	-5.2	34.2		70	

Name	Sp1	Sp2	T-JD 2400000	P	e	omel	V0	K1	K2	v1 sin i	v2 sin i
del Eri	K0+IV	[M7V]	26456.67	10.42088	0	-	-6.00	-1.94		2.2	
omi Per	B1III	B1V	36459.8	4.4191666	0.045	344	+19.81	109.27	159.38	85	84
17 Tau	B6IIIe	(B9.5V)	45502.66	4.29186	0	-	+4.3	10.2		215	
V969 Tau	G0V			2.70							
HD 23410	A0V	[A7V]	36179.35	7.1538	0.631	228	-23.0	86.2	144:	185	
29 Tau A	B3V	[K3V]	44062.84	1.69382	0.40	176	+10.6	26.8		142	
AH Tau	G1V:p		31062.5081	0.3326754						-	
eta Tau	B7IIIe		45690.32	4.1349	0	-	+2.2	11.1		215	
HD 23642	A0VpSi	A5(V)m	35284.343	2.461136	0.0	-		97.5	142	40	
HR 1163	B2.5V	[B4V]		1.940564	0	-	+20.	82	114	170	
EQ Tau	G1V:		40213.325	0.34134848							
V660 Tau	K3Ve			0.23541							
V545 Tau	K2.5V			0.355							
V467 Per	A3V	[M2V]	37639.559	1.7653511	0.056	257	-11.73	34.34		82	
DS Eri	[B8]	(A9)	23147.24	0.827701							
V471 Tau	K2V	DA2	45612.38065	0.52118301	0.0	-	+37.4	148.1		*	
BV Eri	F2(V)	(K0V)	43449.6193	0.5076649	0.07	18	-44.4	53.1			
zet Per	B1Ib		32865.600	1.765	0.45	349	+22.2	6.0		59	
RU Eri	F3-4IV-V		42359.3456	0.63219951	0	-	-20.1	109.0			
43 Per	F5IV	[F5IV]	40873.134	30.4380	0.631	27.07	+25.05	51.85	54.40	<17.	
V817 Tau	B9.5IV	(K1-2IV-V)	30001.822	2.975272	0.036	147	+14.2	57.6		70	
eps Per	B0.5V		19404.1	14.0539	0.488	106	+3.0	13.9		153	
HD 24733	A7V	[K1V]	40490.12	1.7629	0.084	94	-4.	67			
xi Per	O7.5III(n)((f))		41931.47	7.3876	0	-	+59.30	5.86		216	
IQ Per	B8Vp:	A6V	44290.2540	1.7435619	0.076 phi	63.6 phi	+0.6	101.8	206.4	68	44
tau9 Eri	B9.5VpSi		17600.950	5.95367	0.100	151	+24.9	37.6		25.*	
lam Tau	B3.3V	A4IV	35089.204	3.9529552	0.0	-	+13.5	56.8	213.4	101	79
GR Tau	A5V	(G8V)	44573.1070	0.42985160	0	-	-33.2	61.0			

Name	Spectroscopic orbit
HR 906	Abt, H.A. 1961, ApJ Suppl., 6, 37
bet Per	Hill, G., et al. 1971, ApJ, 168, 443; Tomkin, J., Lambert, D.L. 1978, ApJ, 222, L119
SZ Hor	
V432 Per	
UX Eri	
PG 0308+096	Saffer, R.A., Foss, D. 1987, poster paper IAU Colloq. 95
V368 Cas	
CC Cas	Pearce, J.A. 1927, Pub DAO, 4, 67
EF Eri	Mukai, K., Charles, P. 1985, MN, 212, 609
QY Per	
V423 Per	Abt, H.A., Levy, S.G. 1976, PASP, 88, 487
zet Eri	Abt, H.A., Levy, S.G. 1985, ApJ Suppl., 59, 229
29 Per	Kodaira, K. 1971, PASJ, 23, 159
V336 Per	
WX Eri	
HD 21155	
UX Ari	Carlos, R.C., Popper, D.M. 1970, PASP, 83, 504
HD 21279	Morrell, N., Abt, H.A. 1992, ApJ, in press
xi Tau	
HR 1034	Morrell, N., Abt, H.A. 1992, ApJ, in press
Fornax DN	
GK Per	Crampton, D., Cowley, A.P., Fischer, W.A. 1986, ApJ, 300, 788
HR 1056	
AF Cam	Szkody, P., Howell, S.B. 1989, AJ, 97, 1176
TU Hor	Duerbeck, H.W. 1979, AstrAp Suppl., 36, 283
X0329-261	Beuermann, K., Thomas, H.-C., Giommi, P., Tagliaferri, G., Schwope, A.D. 1989, AAp, 219, L7
IW Per	Kim, T.-H. 1980, ApSpSci, 68, 355
eps Eri	
CS 22176-2	Livio, M., Shara, M.M. 1987, ApJ, 319, 819
tau5 Eri	Struve, O. 1925, ApJ, 63, 368
IX Per	Northcott, R.J. 1940, Pub DDO, 1, 197
UZ For	Beuermann, K., Thomas, H.-C., Schwope, A. 1988, AAp, 195, L15
V837 Tau	Carquillat, J.M., Nadal, R., Ginestet, N., Pedoussaut, A. 1979, AAp, 74, 113; Fekel, F.C. Jr. 1988, unpub (see Strassmeier, K.G., et al. 1988,
V711 Tau	Fekel, F.C., Jr. 1983, ApJ, 268, 274
11 Tau	Pearce, J.A., Hill, G. 1975, Pub DAO, 14, 319

Name	Spectroscopic orbit
del Eri	(Campbell, W.W., Moore, J.H. 1928, Pub. Lick Obs, 16, 1; Harper, W.E. 1934, Pub DAO, 6, 151, Woolley, R.v.d.R., Jones, D.H.P., Mather,
omi Per	Lynds, C.R. 1960, ApJ, 131, 122
17 Tau	Jarad, M.M., Hilditch, R.W., Skillen, I. 1989, MN, 238, 1085
V969 Tau	
HD 23410	Abt, H.A., Barnes, R.C., Biggs, E.S., Osmer, P.S. 1965, ApJ, 142, 1604
29 Tau A	Abt, H.A., Gomez, A.E., Levy, S.G. 1990, ApJ Suppl., 74, 551
AH Tau	
eta Tau	Jarad, M.M., Hilditch, R.W., Skillen, I. 1989, MN, 238, 1085
HD 23642	Griffin, R. 1990, Obs., in press
HR 1163	Blaauw, A., van Hoof, A. 1963, ApJ, 137, 821
EQ Tau	
V660 Tau	
V545 Tau	
V467 Per	Martin, B.E., Hube, D.P., Lyder, D.A. 1990, PASP, 102, 1153
DS Eri	
V471 Tau	Bois., B., Lanning, H.H., Mochnacki, S.W. 1988, AJ, 96, 157
BV Eri	Baade, D., et al. 1983, ApSpSci, 93, 69
zet Per	Bouigue, M.R. 1951, Ann. Obs. Toulouse, 20, 45
RU Eri	Nakamura, Y., Yamasaki, A., Kitamura, M. 1984, PASJ, 36, 277
43 Per	Wallerstein, G. 1973, PASP, 85, 115
V817 Tau	Hube, D.P. 1981, AJ, 86, 1393
eps Per	Harmanec, P. 1989, BAC, 40, 201
HD 24733	Acker, A. 1971, AAp, 14, 189
xi Per	Gies, D.R., Bolton, C.T. 1986, ApJ Suppl., 61, 419
IQ Per	Lacy, C.H., Frueh, M.L. 1985, ApJ, 295, 569
tau9 Eri	Sahade, J. 1950, ApJ, 111, 438
lam Tau	Fekel, F.C., Jr., Tomkin, J. 1982, ApJ, 263, 289
GR Tau	Yamasaki, A., Okazaki, A., Kitamura, M. 1984, PASJ, 36, 175

Name	V	B-V	U-B	R-I	E(B-V)	par	Cluster	ADS	Vis Binary	Companions
HR 906	5.95	+0.15	+0.09	+0.07		0.018		2348 A	Sig 327 A rej	del m=5.0, 24.2"
bet Per	2.12	-0.05	-0.37	-0.03	0.00	0.0376		2362 A	bet 526 A (orb)	4.5, 0.086"; 12.7v, 59"; 12.5, 67"; 10
SZ Hor	10.4: p									
V432 Per	11.0 p									
UX Eri	10.22	+0.64	+0.11							
PG 0308+096	15.28									
V368 Cas	8.26	+0.26	-0.42							
CC Cas	7.06	+0.51	-0.50			0.0010	Cam OB1?			
EF Eri	14.3	+0.56	-0.7		0.0 u					15.8, 18"
QY Per	14.2 p				0.16 m					
V423 Per	6.25	+0.28	+0.12					2433 A	Ho 503 A	13.4, 29.3"
zet Eri	4.80	+0.23	+0.09	+0.13	0.06	0.025				
29 Per	5.15	-0.06	-0.56				Per OB3			
V336 Per	14.3 p				0.17 m					
WX Eri	8.57	+0.36	+0.11							
HD 21155	8.1 v									
UX Ari	6.37	+0.91	+0.48	+0.62	0.03 m	0.0182			CHARA 9	
HD 21279	7.26	+0.05					Mel 20			
xi Tau	3.74	-0.09	-0.33	-0.09		-0.017				B7Vn, 145.10d, unresolved
HR 1034	4.98	-0.09	-0.56	-0.10	0.06		Mel 20			
Fornax DN	12.2 v	+0.13								
GK Per	12.97	+0.86	-0.50	+0.70	0.30 u					
HR 1056	6.28	+0.07	+0.04				Mel 20			
AF Cam	13.4 p									
TU Hor	5.99	+0.11			0.08					
X0329-261	17.45									
IW Per	5.81	+0.12	+0.16		0.00					
eps Eri	3.73	+0.88	+0.59	+0.47		0.304			A	6.7, 2.0"
CS 22176-2	14.2 p									
tau5 Eri	4.27	-0.11	-0.35	-0.12	0.00					
IX Per	6.66				0.06 m			2622 A	Sig 410 A	10.6, 5.4"
UZ For	18.5									
V837 Tau	8.1	+0.70			0.04					
V711 Tau	5.794	+0.954	+0.511	+0.51C		0.0286		2644 A	Sig 422 A (orb)	8.83V, +0.99, +0.79, K6V, 8.023"
11 Tau	6.11	+0.06	+0.16		0.05		Pleiades			

Name	V	B-V	U-B	R-I	E(B-V)	par	Cluster	ADS	Vis Binary	Companions
del Eri	3.54	+0.92	+0.69	+0.50	0.00	0.113				
omi Per	3.83	+0.05	-0.75	0.00	0.29	0.023	IC 348	2726 A	bet 535 A	6.6, 1.0"
17 Tau	3.70	-0.11	-0.40	-0.10	0.06	0.020	Pleiades			del m=3-4, 0.01"
V969 Tau	9.46	+0.63	+0.06			-0.002				
HD 23410	6.85	+0.04	+0.01		0.00		Pleiades	2748 A	Sig 444 A	
29 Tau A	5.35	-0.11	-0.61		0.11		Cas-Tau OB1	2750 A	h 2204 A	12.6, 66.2"
AH Tau	11.25									
eta Tau	2.87	-0.09	-0.34	-0.04		0.008	Pleiades		Sig I 8 A	4.7v, 0.031"; 8.1, 117.2"; 8.1, 180.8
HD 23642	6.81	+0.06	+0.02	+0.03	0.02		Pleiades			
HR 1163	6.57 D	+0.08	-0.61		0.24	D0.005	zet Per	2772 A	Sig 448 A; BDS 187	10.6, 3.2"
EQ Tau	10.5 v									
V660 Tau	12.60	+1.06	+0.71				Pleiades			
V545 Tau	12.57	+0.99	+0.64				Pleiades			
V467 Per	5.11	+0.07	+0.11		0.00	-0.003	Per OB2			
DS Eri	10. p									
V471 Tau	9.57	+0.86	+0.23	+0.52	0.00	0.006;	Hyades			
BV Eri	8.12	+0.389	-0.004		0.00					
zet Per	2.85	+0.12	-0.77	+0.09		0.010	IC 348; Per OB2	2843 A	Sig 464 A	9.16V, 12.9"; 9.12V, 33", 10.35V, +
RU Eri	9.35	+0.42								
43 Per	5.28	+0.41	0.00		0.00	0.036			S 440 A	del m=4.8, 75.3"; 11.4, 101"; 12.5v,
V817 Tau	6.06	+0.02	-0.01		0.05		(Pleiades)			8.1, 0.00006"
eps Per	2.89	-0.18	-0.99	-0.18	0.10	0.009	Cas-Tau OB1	2888 A	Sig 471 A	7.39V, -0.03, -0.52, B9.5V, 8.56"
HD 24733	7.02	+0.25			0.04					
xi Per	4.04	+0.01	-0.92	-0.01		-0.004	<Per OB2>			
IQ Per	7.73	+0.06	-0.27		0.14				OSig 68 A	
tau9 Eri	4.66	-0.13	-0.42	-0.13		0.015				
lam Tau	3.47	-0.12	-0.62	-0.09	0.04	0.002	(Hyades)			
GR Tau	10.26	+0.32	+0.24		0.17		(Hyades)			

Name	Vbl type	Min I	Min II	D	d	i	r1	r2	l1	qph
HR 906	-									
bet Per	EA/SD	3.40		0.14	0.000	81.4	0.2047	0.2574	0.911 V*	
SZ Hor	EW/KW	10.8: p	10.7: p			69.	0.44	0.28	0.76 p	0.48
V432 Per	EW/KW	11.7 p	11.6 p			80.	0.445	0.280	0.68 p	0.48
UX Eri	EW/KW	10.83	10.73			70.2	0.458	0.231	0.860 V	
PG 0308+096						32.				
V368 Cas	EA	8.96	8.37	0.12		78.4	0.276	0.252	0.816 V	0.24
CC Cas	EB/DM	7.30	7.26			67.05	0.423	0.169	0.900 V	
EF Eri	E+XM	>17.3 B				~75.				
QY Per	UG	>20. p				57.63 pi				
V423 Per	ELL:									
zet Eri	-					57.46 pi				
29 Per										
V336 Per	UG	>20. p				57.63 pi				
WX Eri	EA/SD	9.47	8.79	0.19		86.81	0.3897	0.2862	0.910 V	0.333
HD 21155		8.6 v	(<0.03)							
UX Ari	RS	6.49				55.99 s	0.05 ome	0.29 ome		
HD 21279										
xi Tau										
HR 1034						56.58 pi				
Fomax DN		>19. B								
GK Per	NA+XP									
HR 1056	EA	(0.1)								
AF Cam	UG	17.27				57.63 pi				
TU Hor	ELL					44.11 pi				
X0329-261										
IW Per	ELL/DM					63.	0.294			0.54
eps Eri										
CS 22176-2										
tau5 Eri						77.63 s	0.188 ome	0.153 ome		
IX Per	ELL					53.41 pi				
UZ For	E+XM	20.7		[0.06145]		81.0	0.014			0.2
V837 Tau	BY:					75.71 se	0.145 ome	0.093 ome		
V711 Tau	RS					33.42 s	0.34 ome	0.12 ome		
11 Tau						35.43 s			0.86 s	

Name	Vbl type	Min I	Min II	D	d	i	r1	r2	l1	qph
del Eri	RS:					55.25 pi				
omi Per	ELL					56.0	0.317	0.309 ome	0.76 s	
17 Tau									0.86? s	
V969 Tau	BY	9.51								
HD 23410	IS:					82.60 se	0.223 ome			
29 Tau A						48.78 pi				
AH Tau	EW/KW	11.92	11.85			84.29	0.4455	0.3250	0.6570 V	0.5020
eta Tau										
HD 23642							0.167 ome		0.74 s	
HR 1163	-					28.38 s	0.87 ome			
EQ Tau	EW/KW	11.03	10.97			75.	0.462	0.266	0.72 V	0.40
V660 Tau	UV+BY									
V545 Tau	UV+BY									
V467 Per	E/D					65.3	0.41	0.07	0.99927 bol	0.19
DS Eri	EB	11. p	10.3 p			87.5	0.457	0.300	0.93 p	0.42
V471 Tau	EA/D/RS+X	9.71		0.065	0.0625	80.	0.268	0.00317	0.88 V	
BV Eri	EW	(0.4 p)				83.	0.259	0.19	0.862 V	
zet Per										
RU Eri	EB/KE	10.07	9.62			74.9	0.405	0.333	0.913 V	0.60
43 Per						60.33 s	<0.044 ome		0.56 s	
V817 Tau	ELL					59.0	0.325	0.201	~1.00	0.414
eps Per	BCEP									
HD 24733						57.89 pi				
xi Per	Unique									
IQ Per	EA/DM	8.27	7.88	0.12; 0.12	0.02; 0.03	89.3	0.231	0.142	0.8954 V	
tau9 Eri	ACV									
lam Tau	EA/DM	3.80 p	3.39 p	0.15	0.000	81.3	0.344	0.208	0.941 B	0.28
GR Tau	EB/SD:	10.76	10.44	0.12		90.	0.521	0.235	0.974 V	

Name	Photometric solution
HR 906	
bet Per	Richards, M.T., Mochnacki, S.W., Bolton, C.T. 1988, AJ, 96, 326
SZ Hor	Svechnikov, M.A., Kuznetsova, E.F. 1990, Katalog Priblizhennykh Fotometricheskikh i Absolyutnykh Elementov Zatmennykh Peremennykh Zvez
V432 Per	Svechnikov, M.A., Kuznetsova, E.F. 1990, Katalog Priblizhennykh Fotometricheskikh i Absolyutnykh Elementov Zatmennykh Peremennykh Zvez
UX Eri	Niarchos, P.G. 1978, ApSpSci, 58, 301
PG 0308+096	Saffer, R.A., Foss, D. 1987, poster paper IAU Colloq. 95
V368 Cas	Polushina, T.S. 1986, IBVS, No. 2944
CC Cas	Polushina, T.S. 1988, PZ, 22, 834
EF Eri	Cropper, M. 1985, MN, 212, 709
QY Per	
V423 Per	(Abt, H.A., Levy, S.G. 1976, PASP, 88, 487; Jerzykiewicz, M. 1989, Acta Astr., 39, 333)
zet Eri	
29 Per	
V336 Per	
WX Eri	Russo, G., Milano, L. 1983, AAp Suppl., 52, 311
HD 21155	
UX Ari	
HD 21279	
xi Tau	
HR 1034	
Fornax DN	
GK Per	
HR 1056	
AF Cam	
TU Hor	(Duerbeck, H.W. 1977, AAp, 61, 161)
X0329-261	
IW Per	Kim, T.-H. 1980, ApSpSci, 68, 355
eps Eri	(Frey, G.J., Grim, B., Hall, D.S., Mattingly, P., Robb, S., Wood, J., Zeigler, K. 1991, AJ 102, 1813)
CS 22176-2	
tau5 Eri	
IX Per	(Thomsen, I.L., Abt, H.A., Kron, G.E. 1955, PASP, 67, 412)
UZ For	(Allen, R.G., Berriman, G., Smith, P.S., Schmidt, G.D. 1989, ApJ, 347, 426); Bailey, J., Cropper, M. 1991, MN, 253, 27
V837 Tau	
V711 Tau	
11 Tau	

Name	Photometric solution
del Eri	
omi Per	Morris, S.L. 1985, ApJ, 295, 143
17 Tau	
V969 Tau	
HD 23410	
29 Tau A	
AH Tau	Liu, Q.-Y., Yang, Y.-L., Zhang, Y.-L., Wang, B. 1991, AApSin, 11,1 (Chin AAp, 15, 143)
eta Tau	
HD 23642	
HR 1163	
EQ Tau	Svechnikov, M.A., Kuznetsova, E.F. 1990, Katalog Priblizhennykh Fotometricheskikh i Absolyutnykh Elementov Zatmennykh Peremennykh Zvez
V660 Tau	
V545 Tau	
V467 Per	Martin, B.E., Hube, D.P., Lyder, D.A. 1990, PASP, 102, 1153
DS Eri	Svechnikov, M.A., Kuznetsova, E.F. 1990, Katalog Priblizhennykh Fotometricheskikh i Absolyutnykh Elementov Zatmennykh Peremennykh Zvez
V471 Tau	Ibanoglu, C. 1978, ApSpSci, 57, 219
BV Eri	Baade, D., et al. 1983, ApSpSci, 93, 69
zet Per	
RU Eri	Russo, G. 1981, ApSpSci, 81, 209
43 Per	
V817 Tau	Gulliver, A.F., et al. 1985, AJ, 90, 1334
eps Per	
HD 24733	
xi Per	
IQ Per	Lacy, C.H., Frueh, M.L. 1985, ApJ, 295, 569
tau9 Eri	
lam Tau	Hutchings, J.B., Hill, G. 1971, ApJ, 166, 373
GR Tau	Yamasaki, A., Okazaki, A., Kitamura, M. 1984, PASJ, 36, 175

Name	M1	M2	A	R1	R2	T1	T2	log L1	log L2	Distance	U	V	W
HR 906													
bet Per	3.71	0.81								29.6 phi			
SZ Hor													
V432 Per													
UX Eri													
PG 0308+096										55.2 s			
V368 Cas													
CC Cas	24.12	11.71											
EF Eri	1.02	0.111 p											
QY Per	0.71 p	0.28 p								531. p			
V423 Per													
zet Eri	1.74 s	0.54 pi								34.4 spi			
29 Per													
V336 Per	0.71 p	0.28 p								552. p			
WX Eri													
HD 21155													
UX Ari	1.11 s	1.25 s								49.2 s			
HD 21279													
xi Tau													
HR 1034	4.79 s	1.29 pi								133. s			
Fornax DN													
GK Per										390. n			
HR 1056													
AF Cam													
TU Hor	2.19 s	0.34 pi								84.8 s			
X0329-261													
IW Per	1.98	1.07								63.7 phi			
eps Eri													
CS 22176-2													
tau5 Eri	2.96 s	3.08 s								96.5 s			
IX Per	1.51 s	0.66 pi								56.3 s			
UZ For													
V837 Tau	1.12 se	0.70								54.2 phi			
V711 Tau	1.34 s	1.08 s								31.3 pi			
11 Tau	2.19 s	1.41 del								111. s			

Name	M1	M2	A	R1	R2	T1	T2	log L1	log L2	Distance	U	V	W
del Eri	1.29 s	0.029 pi								8.85 pi			
omi Per	9.22	6.32								356. s			
17 Tau										86.8 spi			
V969 Tau													
HD 23410	2.71 se	1.62								180. s			
29 Tau A	6.92 s	0.75 pi								220. s			
AH Tau													
eta Tau													
HD 23642													
HR 1163	8.22 s	5.91								472. s			
EQ Tau													
V660 Tau													
V545 Tau													
V467 Per	2.03	0.39											
DS Eri													
V471 Tau	0.79 s	0.76								47.8 phi			
BV Eri	0.50	0.15								46.2 s			
zet Per													
RU Eri	1.12	0.67											
43 Per	1.38 s	1.32 s								43.0 spi			
V817 Tau	2.63	1.09								203. phi			
eps Per													
HD 24733	1.66 s	0.82 pi								83.9 s			
xi Per													
IQ Per	3.51	1.73								275. phi			
tau9 Eri													
lam Tau	6.61	1.76								188. phi			
GR Tau	1.82 s	0.36								356. phi			

Name	Notes
HR 906	
bet Per	*I3=0.050 V; Vis. orb: P=1.862y, T=1952.05, a=0.104", e=0.23, i=83, ome=313, Ome=131 (Labeyrie, A., et al. 1974, ApJ, 194, L147); A
SZ Hor	
V432 Per	
UX Eri	
PG 0308+096	
V368 Cas	
CC Cas	del m=1.59
EF Eri	E+XM
QY Per	UG
V423 Per	Ell (6.16-6.28V)
zet Eri	
29 Per	
V336 Per	UG
WX Eri	Compt 1 is del Sct vbl
HD 21155	
UX Ari	RS; *Pphtm~~Porb
HD 21279	
xi Tau	Sp. triple, Plong=145.10d
HR 1034	
Fornax DN	DN:
GK Per	MB(K compt)<~14.7
HR 1056	
AF Cam	UG
TU Hor	Ell (5.92-6.02V)
X0329-261	I2=16.88
IW Per	Ell (5.80-5.85V)
eps Eri	RS(0.02V)
CS 22176-2	
tau5 Eri	
IX Per	Ell (Amp 0.02V)
UZ For	AM; Twd<20000K; I2=16.94
V837 Tau	BY (0.09V); *Pphtm=1.9d
V711 Tau	RS; *Pphtm=2.83782d; Vis. orb: P=2101y, T=1900.0, a=8.023", e=0.18, i=32.07°, ome=151.97°, Ome=92.35° (Hopmann, J. 1964, Ann.
11 Tau	del m=2.0

Name	Notes
del Eri	RS CVn (del V=0.05); Cst (Easton, J.A., Poe, C.H. 1985, IBVS 2712)
omi Per	del m=1.26; Ell (3.79-3.85V); U=165y
17 Tau	del m=0.20, a=0.00145" (lunar occ: Qian, B.-C., Fan, Q.-Y. 1991, AASin 32,21); Ang diam 1=0.0030"+/-0.0018" (Beavers, W.I., Eitter, J.J.
V969 Tau	BY
HD 23410	
29 Tau A	
AH Tau	
eta Tau	Ang. diam. 1=0.0016" (Howell, R., Low, F.J., McCarthy, D.W. 1977, ApJ, 214, L85)
HD 23642	del m=1.11
HR 1163	
EQ Tau	
V660 Tau	UV+BY; Amp V=0.20; M-m=0.5p
V545 Tau	UV+BY; Amp V=0.09; M-m=0.42p
V467 Per	T1=8800K, T2=3500K
DS Eri	
V471 Tau	(B-V)I=+0.92; (U-B)I=+0.59; *Pphtm=0.5197d
BV Eri	del m=1.99V, 2.05B, 2.07U
zet Per	
RU Eri	
43 Per	del m=0.27
V817 Tau	
eps Per	Prot=0.56664d
HD 24733	
xi Per	Non-radial puls?
IQ Per	del m=2.39 V; (B-V)I,II=+0.08, +0.04
tau9 Eri	*Prot=Porb
lam Tau	del m=2.79 (lam4500)
GR Tau	del m=4.1 V, 4.0 B

Name	RA(1950)	μ(RA)	Dec(1950)	μ(Dec)	Pos Ref	FK4	SRS	AGK3	SAO	GC	l	b
RW Tau	04 00 49.539	-0.02	+27 59 22.76	-1.0	AGK3			+27°0407	076418		166.59	-18.00
SZ Cam	04 03 23.893	-0.23	+62 11 59.14	-1.6	AGK3			+62°0342	013030	4931	143.68	+07.66
V490 Per	04 03 28.216	+0.08	+32 15 04.95	-0.6	AGK3			+32°0393	056968	4933	163.96	-14.52
GS Tau	04 03 32.054	+0.18	+27 27 59.58	-5.2	Per70		40765	+27°0416	076455	4937	167.43	-17.96
AG Per	04 03 43.447	+0.06	+33 18 46.44	-2.3	AGK3			+33°0382	056973	4943	163.25	-13.72
V491 Per	04 04 13.992	+1.49	+37 56 41.15	-21.9	AGK3			+37°0473	056982	4949	160.09	-10.26
BW Eri	04 04 33.905	-0.15	-27 48 06.36	0.0	SAO				169130		225.39	-46.97
FO Per	04 04 48.230		+51 06 52.70		BFW87						151.26	-00.46
MX Per	04 05 01.311	+0.212	+47 34 51.78	-2.76	FK4	152		+47°0431	039336	4967	153.65	-03.04
AG Dor	04 06 11.668	+1.61	-52 42 00.44	-21.9	SAO				233401		261.79	-45.80
EI Eri	04 07 15.207	+0.14	-08 01 27.35	+13.1	SAO				130994	5012	200.17	-39.38
BD +23°635	04 08 55.99		+23 30 32.8								171.31	-19.87
HR 1300	04 09 24.399	+0.343	-20 29 05.34	+6.04	FK4Sup	2302	40781		169206	5055	215.72	-43.99
BL Eri	04 09 26.88		-11 55 07.7		AC						205.02	-40.70
VW Hyi	04 09 32.95	+0.40	-71 25 28.9	+4.4	(LG90)						284.90	-38.14
BZ Eri	04 09 45.		-06 09 12.		GCVS						195.48	-37.92
YY Eri	04 09 46.525	-0.77	-10 35 43.58	-12.2	SAO				149449		203.50	-40.05
V891 Tau	04 12 45.952	-0.64	+06 04 37.48	-10.5	AGK3			+6°0436	111695	5130	186.66	-30.50
SY Hor	04 12 47.27		-46 34 30.2		AC						252.85	-45.95
b Per	04 14 28.414	+0.33	+50 10 29.09	-5.6	AGK3			+50°0449	024531	5174	153.02	-00.09
gam Dor	04 14 42.867	+1.128	-51 36 42.99	+18.93	FK4	157	30157		233457	5179	259.84	-44.79
BD +22°669	04 15 10.89		+23 09 49.7								172.62	-19.06
ups4 Eri	04 16 00.050	+0.50	-33 55 09.54	-0.2	Per70		40809		194902	5201	234.67	-45.47
V1024 Tau	04 16 28.992	+0.24	+21 01 22.50	-4.2	Per70		40812	+21°0404	076548	5210	174.52	-20.28
HR 1358	04 18 03.740	+0.65	+13 44 47.42	-1.2	AGK3			+13°0343	093878	5260	180.76	-24.74
EM Eri	04 18 17.198	-0.027	-07 42 38.65	-0.89	FK4Sup	2322	40825		131132	5267	201.50	-36.83
V775 Tau	04 19 14.250	+0.78	+13 57 38.10	-2.5	Per70		40827	+13°0345	093892	5287	180.78	-24.38
RR Cae	04 19 36.	+0.43	-48 46 06.	-55.4							255.71	-44.52
HD 27691	04 19 53.799	+0.95	+14 56 25.18	-0.8	AGK3			+14°0392	093896		180.06	-23.63
AH Eri	04 20 18.93		-13 28 27.3		Sz87						208.33	-38.96
63 Tau	04 20 32.670	+0.74	+16 39 43.80	-2.9	Per70		40831	+16°0364	093900	5315	178.73	-22.41
HD 27935	04 22 04.193	+0.66	+04 35 09.36	+1.9	AGK3			+4°0451	111800		189.62	-29.50
AO Cam	04 24 18.46		+52 56 07.8		PI77						152.15	+02.94
HR 1402	04 24 42.955	-0.02	+11 06 05.36	-0.2	Per70		40853	+11°0419	093943	5408	184.16	-25.11
the2 Tau	04 25 48.214	+0.73	+15 45 41.88	-2.6	Per70		40862	+15°0370	093957	5436	180.35	-22.01

Name	RA(1950)	μ(RA)	Dec(1950)	μ(Dec)	Pos Ref	FK4	SRS	AGK3	SAO	GC	l	b
HR 1420	04 26 57.746	-0.12	+10 24 48.13	-0.8	AGK3			+10°0449	093968	5460	185.13	-25.09
CT Eri	04 27 31.924	-0.17	-33 41 04.34	+0.6	SAO				195061		234.75	-43.07
HR 1401	04 27 40.895	+0.679	+72 25 26.83	-8.23	FK4Sup	2333		+72°0116	005238	5478	137.89	+16.48
HZ 9	04 29 29.79	+0.76	+17 38 45.2	-4.0	( )						179.38	-20.14
BD +11°629	04 32 46.804	+0.12	+11 59 55.97	-1.3	AGK3			+11°0430	094023		184.68	-22.99
88 Tau	04 32 54.244	+0.38	+10 03 35.07	-4.5	Per70		40885		094026	5599	186.40	-24.13
KR Per	04 33 34.82		+44 06 39.6		PI77						159.62	-02.00
V833 Tau	04 33 41.765	+1.80	+27 02 01.03	-16.4	AGK3			+27°0445	076672		172.51	-13.36
RZ Tau	04 33 42.934	-0.19	+18 39 15.79	-2.2	AGK3			+18°0354			179.21	-18.73
HD 29376	04 35 12.600	+0.07	+07 13 06.78	-0.6	AGK3			+7°0480	111940	5642	189.31	-25.32
HU Tau	04 35 18.604	-0.122	+20 35 09.65	+0.16	FK4Sup	2341	40893	+20°0422	076680	5644	177.88	-17.22
FY Per	04 38 06.		+50 36 54.		GCVS						155.31	+02.93
V834 Tau	04 38 22.034	-1.74	+20 48 34.57	-26.6	AGK3			+20°0433		5699	178.17	-16.52
tau Tau	04 39 14.403	-0.010	+22 51 46.00	-1.58	FK4	174	30174	+22°0456		5716	176.64	-15.07
AB Men	04 42 46.5		-70 04 07.		LMV						281.89	-36.23
mu Eri	04 42 59.993	+0.071	-03 20 41.33	-1.09	FK4	176	30176		131468	5796	200.53	-29.34
TU Men	04 43 32.82		-76 42 18.8		LG90						289.35	-33.66
NSV 01725	04 46 03.		+40 25		NSV						163.93	-02.70
HR 1528	04 46 04.700	+0.18	+32 30 08.81	-3.3	Per70		40931	+32°0454	057444	5856	170.03	-07.78
TV Pic	04 47 32.024	+0.17	-47 13 14.59	+4.1	SAO				217011	5886	253.11	-39.99
HD 30738	04 47 56.057	+0.57	+16 07 35.05	-2.9	AGK3			+16°0414	094162		183.50	-17.58
pi4 Ori	04 48 32.421	-0.026	+05 31 16.34	+0.14	FK4	179	30179		112142	5911	192.89	-23.52
alp Cam	04 49 03.825	+0.056	+66 15 38.64	+0.81	FK4	178		+66°0267	013298	5924	144.07	+14.04
pi5 Ori	04 51 38.661	-0.03	+02 21 37.24	+0.03	FK4	180	30180		112197	5978	196.27	-24.56
HR 1574	04 52 16.487	0.00	+00 23 15.42	+0.5	Per70		40955	+0°0468	112206	5991	198.22	-25.45
UZ Oct	04 52 47.738	-1.53	-84 53 50.59	-3.4	SAO				258392		297.86	-29.78
7 Cam	04 53 16.202	-0.42	+53 40 27.79	+4.0	AGK3			+53°0428	024929	6017	154.47	+06.68
HV 12411	04 53 17.5		-70 22 38.		LMV						281.89	-35.29
HD 31679	04 55 49.751	+0.01	+24 25 14.37	+0.3	AGK3			+24°0442	076868		177.80	-11.12
HV 2241	04 57 10.1		-66 38 27.		LMV						277.36	-35.98
V1192 Ori	04 57 30.816	-0.10	+03 12 48.15	-2.3	AGK3				112298		196.31	-22.87

Name	Bayer	Flmstd	HR	HD	BD	CoD	CPD	Var	Other
RW Tau				25487	+27°0623			RW Tau	102.1904; HV 1174; MWC 467
SZ Cam				25639	61°0676B			SZ Cam	193.1904; 257.1930; NGC 1502-2
V490 Per				25799	+31°0703			V490 Per	38.1934; CSV 377; NSV 01459; P 2603
GS Tau		41 Tau	1268	25823	+27°0633			GS Tau	18H Tau; Babcock 15
AG Per				25833	+33°0785			AG Per	
V491 Per				25893	+37°0878			V491 Per	Gl 160.1A
BW Eri						-28°01406	-28°00463	BW Eri	623.1935; CSV 382; P 2607
FO Per								FO Per	22.1939
MX Per	c Per	48 Per	1273	25940	+47°0939			MX Per	38H Per; CSV 100368; LS V +47°10; MWC
AG Dor				26354		-52°00858	-52°00497	AG Dor	INCA 1032
EI Eri				26337	-8°0801			EI Eri	182G Eri; INCA 2083; X0407-080 (1ES)
BD +23°635				284163	+23°0635				
HR 1300			1300	26591	-20°0801		-20°00508		187G Eri
BL Eri					-12°0818			BL Eri	P 2612; HV 6277
VW Hyi								VW Hyi	11.1932; HV 8028; P 126
BZ Eri					-6°0841			BZ Eri	272.1934; CSV 389;P 2614
YY Eri				26609	-10°0858			YY Eri	169.1932; P 125
V891 Tau			1321	26913	+5°0613			V891 Tau	NSV 01534
SY Hor						-46°01350		SY Hor	CSV 392; S 4832
b Per	b1 Per		1324	26961	+49°1150			b Per	41H Per; INCA 1036; Zi 280
gam Dor	gam Dor		1338	27290		-51°01066	-51°00524	gam Dor	3G Dor; CSV 6101; Gl 167.1
BD +22°669				284303	+22°0669				
ups4 Eri	ups4 Eri	41 Eri	1347	27376		-34°01614	-34°00466		204G Eri; X Eri
V1024 Tau		53 Tau	1339	27295	+20°0733			V1024 Tau	
HR 1358			1358	27483	+13°0665				Mel 25-34
EM Eri			1363	27563	-7°0798			EM Eri	210G Eri
V775 Tau		60 Tau	1368	27628	+13°0668			V775 Tau	Mel 25-38
RR Cae								RR Cae	BPM 31852; L 302-89; LFT 349; LHS 1660;
HD 27691				27691	+14°0690				Mel 25-40; X0419+149 (1ES)
AH Eri								AH Eri	HV 6292
63 Tau		63 Tau	1376	27749	+16°0586				Mel 25-45
HD 27935				27935	+4°0686				Mel 25-140
AO Cam					+52°0826			AO Cam	S 8561
HR 1402			1402	28217	+10°0577				
the2 Tau	the2 Tau	78 Tau	1412	28319	+15°0632			the2 Tau	33H Tau; Mel 25-72

Name	Bayer	Flmstd	HR	HD	BD	CoD	CPD	Var	Other
HR 1420			1420	28475	+10°0583				
CT Eri						-33°01755	-33°00506	CT Eri	BV 453
HR 1401			1401	28204	+72°0227				
HZ 9									CSV 416; EG 38; GH 7-255; Hanson 528; HZ
BD +11°629				286898	+11°0629				
88 Tau	d Tau	88 Tau	1458	29140	+9°0607				37H Tau; 61G Tau; CSV 100396; NSV 01658
KR Per					+43°1020			KR Per	CSV 423; LS V +44°15; S 3903
V833 Tau				283750	+26°0730			V833 Tau	G 8-44; G 39-28; Gl 171.2A; INCA 2656; LT
RZ Tau				285892	+18°0659			RZ Tau	71.1907; HV 2923
HD 29376				29376	+7°0676				
HU Tau			1471	29365	+20°0785			HU Tau	BV 312
FY Per								FY Per	640.1936; P 2638
V834 Tau				29697	+20°0802			V834 Tau	Gl 174; SVS 2560
tau Tau	tau Tau	94 Tau	1497	29763	+22°0739				40H Tau
AB Men								AB Men	HV 12714; LMV 1520
mu Eri	mu Eri	57 Eri	1520	30211	-3°0876				23H Eri; 266G Eri
TU Men								TU Men	S 6732
NSV 01725									CSV 441; NSV 01725; SVS 852
HR 1528			1528	30453	+32°0840				
TV Pic				30861		-47°01526	-47°00491	TV Pic	
HD 30738				30738	+15°0692				Mel 25-121; NSV 01739
pi4 Ori	pi4 Ori	3 Ori	1552	30836	+5°0745				3H Ori; 9G Ori; CSV 100415; NSV 01742; Z
alp Cam	alp Cam	9 Cam	1542	30614	+66°0358				17H Cam
pi5 Ori	pi5 Ori	8 Ori	1567	31237	+2°0810			pi5 Ori	7H Ori; 13G Ori; z Ori
HR 1574			1574	31331	+0°0893				17G Ori
UZ Oct						-85°00047	-85°00055	UZ Oct	BV 421
7 Cam		7 Cam	1568	31278	+53°0829				20H Cam
HV 12411									HV 12411; LMV 1278
HD 31679				31679	+24°0719				DHK 14
HV 2241									HV 2241; LMV 156
V1192 Ori				31993	+3°0733			V1192 Ori	

Name	Sp1	Sp2	T-JD 2400000	P	e	omel	V0	K1	K2	v1 sin i	v2 sin i
RW Tau	B8Ve	K0IV	45683.974	2.7688356	0.293	36.45	-20.20	53.34		94	
SZ Cam	O9.5Vnk	B0(V)	41665.2516	2.6985439	0	-	-15.7	84.6	342.4	258	
V490 Per	B3V	[M1V]	35152.835	0.9121679	0.	-	+24.3	17.6		380	
GS Tau	B7VpSi		21944.74	7.227424	0.18	121	+2.3	16.6		10.*	
AG Per	B2.5V	B3.5V	42337.8828	2.02872963	0.0528 phi	297.07 phi	+25.	173	189	94	70
V491 Per	K2V			7.37						6.4	
BW Eri	A3		43448.6840	0.6384773							
FO Per	sdBe			(0.092: ACP)							
MX Per	B3Ve		45497.70	16.59594	0.	-	+3.2	8.5		217	
AG Dor	K1Vp		44378.41	2.562	0.04	51.1	+70.2	58.0			
EI Eri	G5IV	[M1V]	46091.539	1.947227	0.	-	+17.6	27.4		55.*	
BD +23°635	dK0	dM0:	43892.36	2.394357	0.057	279.2	+36.76	66.25			
HR 1300	A2/5/6Vm	A2/5/6Vm	40611.040	3.65866	0.012	-	+32.8	104.5	104.9	30	30
BL Eri	G0(IV-)V (F9	(G1V)	44606.5880	0.41691506	0	-	+40.	98	181		
VW Hyi	sdBe	(M5V)	40128.0424	0.074271038	0	-	+2.	78		400. e	
BZ Eri	G0III	G2III	25558.445	0.6641701							
YY Eri	G5(V)	G5(V)	43889.316	0.32149754	0	-	-15.	112	280		
V891 Tau	G5IV		45719.7?	6.8			-7.6	(< =5.)		< =6.*	
SY Hor			45290.8311	0.311674							
b Per	A2VpSi		43142.188	1.5273643	0.023	111	+20.99	39.36		87	
gam Dor	F4III	[> =M6V]		0.74	0.	-	+27.0	(5.2)		69	
BD +22°669	K1V	K5V	43776.2317	1.887259	0.	-	+39.31	95.3	103.4	25	20
ups4 Eri	B8VpHgMn	B9.5V	17562.266	5.0105	0.014	124.3	+17.83	63.76	64.85	31.*	
V1024 Tau	B9IVpMn	[M5V]	41317.858	4.452064	0.055	81	+12.48	9.62		2.*	
HR 1358	F6V	F6V	44498.450	3.059120	0.00	-	+39.2	72.4	73.4	12	
EM Eri	B5III			~3.8							
V775 Tau	A3[V]m	[M3V]	36851.869	2.14328	0.04	307.0	+41.7	26.6		25	
RR Cae	DA8wk	dMe	45927.9160	0.30371	0.	-	-	160.	185		
HD 27691	F8IV	[M1V]	22274.8123	4.00000	0.060	12.74	+37.4	36.1		10	
AH Eri	sdBe	(M3V)		(0.217)							
63 Tau	A1.5/8/F2[V]	[K4V]	43049.461	8.41830	0.000	-	+37.7	36.6		10	
HD 27935	G6V	K5V	44126.25	156.387	0.852	202.5	+42.11	37.73	50.5		
AO Cam	G5V: (G7V)	(G3V)	45745.6394	0.329905519							
HR 1402	B8IVpHgMn		42641.8	20.433	0.34	231	+15.2	30.9		70	
the2 Tau	A7IIIpSr	(A5-7V)	36489.792	140.7342	0.750	49.1	+39.60	31.0	37.7	78	150

Name	Sp1	Sp2	T-JD 2400000	P	e	omel	V0	K1	K2	v1 sin i	v2 sin i
HR 1420	B5V	[B5V]	44000.41	13.8761	0.352	248.7	+22.1	79.9	94.4		
CT Eri	F0V	(G3IV)	44555.6736	0.634195498							
HR 1401	A8[V]m	[M2V]	26035.694	4.195	0.0	-	+9.0	31.3		31	
HZ 9	DA2	dM4.5e	43846.9063	0.56433	0.	-	+42.1	69.8	129.5 e		
BD +11°629	G0V	K1V	43758.3178	1.868017	0.	-	+39.57	78.8	111.8	27	14
88 Tau	A3/8/8Vm	(G3V)	43109.496	3.571391	0.0	-	+28.69	76.32	125.1	25	20
KR Per	F5V	F5V	38048.3150	0.99607793						-	
V833 Tau	dK5ep	[M5V]	44611.294	1.788011	0.0	-	+36.02	10.59		7.4	
RZ Tau	A7V	A7V	37676.567	0.4156747	0	-	+5.	135	250		
HD 29376	B3V	B5(V)	24807.936	2.2075	0.076	2.38	+25.3	124.9	235.8	240	
HU Tau	B8V	(G8IV)	46485.9967	2.0563056	0.0	-	-2.3	65.4		70	
FY Per			44292.226	0.4407?							
V834 Tau	K3V	[K8V]		1.3290							
tau Tau	B3V	[B7V]	36425.10	2.956548	0.02	107	+13.9	52.8	179	187	
AB Men	A[2]V	(G4IV)	30640.401	1.404264							
mu Eri	B5IV	A3[V]	16392.46	7.35886	0.26	150	+23.3	19.4		140	
TU Men	sdBe		44574.561	0.11761	0.	-	0.	164.			
NSV 01725				[0.108]							
HR 1528	A8[V]m	[G1V]	26327.626	7.0507	0.033	289.66	+20.32	57.81		15	
TV Pic	A2V	(K1V)	46775.8030	0.852							
HD 30738	F8V		42192.56	5.75096	0.354	54.9	+42.74	19.70		10	
pi4 Ori	B2III	B2IV	18280.01	9.5191	0.033	165	+23.3	25.8		40	
alp Cam	O9.5Iae	[A4V]	43087.64	3.6784	0.45	160	+12.7	9.0		95	
pi5 Ori	B2III-IV	B0V	17922.565	3.700363	0.0	-	+24.20	57.88		93	
HR 1574	B5V		44280.0	24.10	0.33	138	+15.0	24.5		200	
UZ Oct			42375.9295	1.1493717							
7 Cam	A1V	[K5V]	18687.685	3.884494	0.0	-	-9.5	35.8		45	
HV 12411	[G0V]	[G0V]		0.391060:							
HD 31679	B5		47942.655	1.38529							
HV 2241	O7V:	O8V	46424.8644	4.342634	0.	-	+285(	157.	261		
V1192 Ori	K2III+F			6.78							

Name	Spectroscopic orbit
RW Tau	Hiltner, W.A., Hardie, R.H. 1949, ApJ, 110, 438
SZ Cam	Chochol, D. 1980, BAC, 31, 321
V490 Per	Morris, S.L., Bolton, C.T., Fernie, J.D., Percy, J.R. 1988, PASP, 100, 954
GS Tau	Abt, H.A., Snowden, M.S. 1973, ApJ Suppl., 25, 137
AG Per	Popper, D.M., Hill, G. 1991, AJ, 101, 600
V491 Per	
BW Eri	
FO Per	
MX Per	Jarad, M.M., Hilditch, R.W., Skillen, I. 1989, MN, 238, 1085
AG Dor	Balona, L. 1987, SAAO Circ., 11, 1
EI Eri	Strassmeier, K.G. 1990, ApJ, 348, 682
BD +23°635	Griffin, R.F., Gunn, J.E. 1981, AJ, 86, 588
HR 1300	Abt, H.A., Levy, S.G. 1977, PASP, 89, 185
BL Eri	Yamasaki, A., Jugaku, J., Seki, M. 1988, AJ, 95, 894
VW Hyi	Schoembs, R., Vogt, N. 1981, AAp, 97, 185
BZ Eri	
YY Eri	Nesci, R., Maceroni, C., Milano, L., Russo, G. 1986, AAp, 159, 142
V891 Tau	(Young, R.K. 1945, Pub DDO, 1, 311)
SY Hor	
b Per	Hill, G., et al. 1976, ApJ, 208, 152
gam Dor	(Campbell, W.W., Moore, J.H. 1928, Pub. Lick Obs., 16, 1; Spencer Jones, H. 1928, Ann. Cape Obs., 10, pt. 8, 95)
BD +22°669	Griffin, R.F., Mayor, M., Gunn, J.E. 1982, AAp, 106, 221
ups4 Eri	Paddock, G.F. 1915, Lick Bull., 8, 168
V1024 Tau	Dworetsky, M.M. 1972, PASP, 84, 652
HR 1358	Mayor, M., Mazeh, T. 1987, Astr. Ap., 171, 157
EM Eri	
V775 Tau	Abt, H.A. 1961, ApJ Suppl., 6, 37
RR Cae	Bragaglia, A., Greggio, L., Renzini, A., D'Odorico, S. 1990, ApJ Lett., 365, L13; Krzeminski, W. 1984, IAU Circ., No. 4014
HD 27691	Sanford, R.F. 1921, ApJ, 53, 201
AH Eri	
63 Tau	Abt, H.A., Levy, S.G. 1985, ApJ Suppl., 59, 229
HD 27935	Griffin, R.F., Gunn, J.E., Zimmerman, B.A., Griffin, R.E.M. 1985, AJ, 90, 609
AO Cam	
HR 1402	Lebedev, V.S. 1985, Astr. Tsirk., 1393, p. 7
the2 Tau	Ebbighausen, E.G. 1959, Pub DAO, 11, 235; Peterson, D.M. 1991, The Formation and Evolution of Star Clusters, ed. K. Janes (ASP Conf. Ser.

Name	Spectroscopic orbit
HR 1420	Hube, D.P. 1983, JRASC, 77, 142
CT Eri	
HR 1401	Luyten, W.J. 1936, ApJ, 84, 85
HZ 9	Stauffer, J.R. 1987, AJ, 94, 996; Lanning, H.H., Pesch, P. 1981, ApJ, 244, 280
BD +11°629	Griffin, R.F., Mayor, M., Gunn, J.E. 1982, AAp, 106, 221
88 Tau	Wilson, R.E. 1913, Lick Bull., 7, 104; Abt, H.A. 1961, ApJ Suppl., 6, 37
KR Per	
V833 Tau	Griffin, R.F., et al. 1985, AJ. 90, 609
RZ Tau	Struve, O., et al. 1950, ApJ, 111, 658
HD 29376	Pearce, J.A. 1932, Pub DAO, 6, 59
HU Tau	Mammano, A., Mannino, G., Margoni, R. 1967, Mem SAIt, 38, 459
FY Per	
V834 Tau	
tau Tau	Abt, H.A., Levy, S.G. 1978, ApJ Suppl., 36, 241
AB Men	
mu Eri	Hill, G. 1969, Pub DAO, 13, 323
TU Men	Stolz, R., Schoembs, R. 1981, IBVS 2029
NSV 01725	
HR 1528	Harper, W.E. 1953, Pub DAO, 6, 79
TV Pic	
HD 30738	Griffin, R., Gunn, J. 1978, AJ, 83, 1114
pi4 Ori	Luyten, W.J. 1936, ApJ, 84, 85
alp Cam	Zeinalov, S.K., Musaev, F.A. 1986, Pis'ma AZh, 12, 304 (Sov. AJ Lett., 12, 125)
pi5 Ori	Lee, O.J. 1913, ApJ, 38, 175
HR 1574	Abt, H.A., Gomez, A.E., Levy, S.G. 1990, ApJ Suppl., 74, 551
UZ Oct	
7 Cam	Lucy, L.B., Sweeney, M.A. 1971, AJ, 76, 544
HV 12411	
HD 31679	
HV 2241	Niemela, V.S. 1986, Lum. Stars & Assoc. in Galaxies, IAU Symp 116, ed. C.W.H. De Loore, et al., p. 85
V1192 Ori	

Name	V	B-V	U-B	R-I	E(B-V)	par	Cluster	ADS	Vis Binary	Companions
RW Tau	8.02	+0.08	-0.20	+0.21				2944 D	Sig 481 D	12.5, 1.3"
SZ Cam	6.99	+0.42	-0.50		0.76		NGC 1502	2984 B	Sig 485 B; Hzg B	7.3V, 17.9"; 10.39V, +0.58
V490 Per	7.02	+0.09	-0.57	+0.033			Per OB2			
GS Tau	5.20	-0.13	-0.47				<Do 14>			
AG Per	6.71	+0.04	-0.53				zet Per	2990 A	OSig 71 A	9.00V, B5V:, 1.0"; 12.6, 36"
V491 Per	7.13 D	+0.86	+0.48			0.029		2995 A	OSig 531 A (orb)	9.0, 34.2"
BW Eri	10.12	+0.26	+0.05							
FO Per	11.8 v				0.12 m					
MX Per	4.04	-0.03	-0.55	-0.02		0.020	Per OB3			
AG Dor	8.70	+0.95	+0.63	+0.52C		0.0333				
EI Eri	7.02	+0.67	+0.14	+0.39		0.0167				
BD +23°635	9.359	+1.088	+0.80	+0.51			Hyades		CHARA 14	
HR 1300	5.79	+0.18	+0.09	+0.05	0.02		Sco-Cen			
BL Eri	11.30	+0.63			0.04					
VW Hyi	8.5 v	-0.08	-0.75		0.00 u					
BZ Eri	9.1	+0.70	+0.30							
YY Eri	8.8 B	+0.68	+0.16		0.00					
V891 Tau	6.93	+0.70	+0.22					3085 B	H VI 98 B	6.31V, G0IV, 64.7"
SY Hor	11.193	+0.828	+0.425							
b Per	4.61	+0.04	+0.03	+0.05	0.00	0.0178;	(NGC 1545)			Unresolved triple
gam Dor	4.25	+0.30	+0.03	+0.16	0.00	0.061				
BD +22°669	9.56	+0.99					Hyades			
ups4 Eri	3.56 D	-0.12	-0.37	-0.11	0.00				I 270; h 3636 A	4.9, 0.2"; 11.8v, 49"
V1024 Tau	5.35	-0.08	-0.25		0.00		(Hyades)			
HR 1358	6.17	+0.46	+0.01	+0.25	0.00	A0.022	Hyades			
EM Eri	5.84	-0.13	-0.49							
V775 Tau	5.72	+0.32	+0.10	+0.17	0.00	A0.023	Hyades		bet pm A	12.8, 109.2"
RR Cae	14.36	+0.52	-0.45			0.123				
HD 27691	7.00	+0.56	+0.09	+0.33	0.00	0.031;	Hyades	3169 A	OSig 82 A (orb)	8.5, 0.0004"; 8.5, 1.125"
AH Eri	13.5 v				0.06					
63 Tau	5.64	+0.30	+0.13	+0.16	0.00	A0.021	Hyades			7.6, 0.0006"
HD 27935	8.94	+0.757	+0.337				Hyades			
AO Cam	9.5 p									
HR 1402	5.88	+0.05	-0.33			D0.003		3228 A	bet 1186 A	7.9v, 0.4"
the2 Tau	3.405	+0.173	+0.127	+0.09		0.029	<Hyades>		Sig I 10 A	4.85, 0.02077"; 3.84V, K0IIIbFe-0.5,

Name	V	B-V	U-B	R-I	E(B-V)	par	Cluster	ADS	Vis Binary	Companions
HR 1420	6.79	+0.09	-0.37		0.26		(Hyades)			
CT Eri	10.0 v								h 3652 A	12.6, 10.0"
HR 1401	5.94	+0.30	+0.18		0.07			3267 A	h 2228 A	12.5, 26"
HZ 9	13.94	+0.34	-0.70			0.023				
BD +11°629	8.80	+0.62					Hyades mg			14v, 9"
88 Tau	4.25	+0.18	+0.11	+0.10	0.00	0.036	(Hyades)	3317 A	S,h 45 A	0.104"; 7.84V, +0.54, +0.04, F8V,
KR Per	10.85	+0.68	+0.10		0.20		(NGC 1582)			
V833 Tau	8.45	+1.12	+0.88	+0.510		0.061;	Hyades scl			15.94V, DC, 123"
RZ Tau	10.1	+0.59	+0.04		0.10		(Hyades)			12.3, 3.8"
HD 29376	7.02	-0.05	-0.58		0.15					
HU Tau	5.92	-0.05	-0.35		0.00		(Hyades)			7.7, 0.0004"
FY Per	12.71	+0.33	-0.49							
V834 Tau	7.99	+1.09	+0.94		0.00	0.073				
tau Tau	4.28 D	-0.13	-0.57	-0.14	0.05	0.017	Cas-Tau OB1		Ho 642 A; S 455 A	8.9, 0.1"; 7.3, A1V, 63"
AB Men	13.28 p				0.13 m		(LMC)			
mu Eri	4.02	-0.15	-0.60	-0.14	0.00		Cas-Tau OB1			
TU Men	12.5 v				0.05 u					
NSV 01725	11.3 p				0.10 m					
HR 1528	5.86	+0.24	+0.14	+0.11	0.00				CHARA 19	
TV Pic	7.4									
HD 30738	7.29	+0.50	+0.03				<Hyades>			
pi4 Ori	3.69	-0.17	-0.81	-0.16	0.06	0.001	Ori OB1			
alp Cam	4.29	+0.03	-0.88	0.00	0.36	-0.002				
pi5 Ori	3.72	-0.18	-0.83	-0.20		0.003	Ori OB1			
HR 1574	5.99	-0.12	-0.56							
UZ Oct	9.03	+0.54	0.00							
7 Cam	4.47 D	-0.02	-0.01	-0.01	0.00	0.000		3536 A	Dem 5 A (orb); Sig	7.9, 0.4"; 11v, 26"
HV 12411	14.35 p				0.13 m		(LMC)			
HD 31679	7.95	+0.34								
HV 2241	13.48	-0.08	-1.01		0.21		LMC			
V1192 Ori	7.544	+1.283	+1.164							

Name	Vbl type	Min I	Min II	D	d	i	rI	r2	II	qph
RW Tau	EA/SD	11.59	8.09	0.14	0.020	89.83	0.1887	0.2578	0.9509 V*	0.2258
SZ Cam	EA/DW/RS	7.29 B	7.24 B	0.17		79.2	0.386	0.194	0.833	
V490 Per	E:					38.33 pi				
GS Tau	ACV									
AG Per	EA/DM	7.00	7.00	0.12	0.000	81.36	0.214	0.165	0.590 V*	(0.910)
V491 Per	BY	(0.03)								
BW Eri	EB	10.71	10.33			87.5	0.464	0.264	0.966 V	0.36
FO Per	UG	16. v				57.63 pi				
MX Per	GCAS									
AG Dor	RS									
EI Eri	RS									
BD +23°635						60.04 s				
HR 1300						77.36 se	0.143 ome	0.143 ome		
BL Eri	EW/KE	12.105	11.84			88.	0.432	0.324	0.69 V	
VW Hyi	UGSU	13.89				~60.				
BZ Eri	EA	(0.48 B)	(0.21 B)	0.12		79.	0.347	0.280	0.75 B	0.81
YY Eri	EW/KW	9.50 B	9.42 B			82.5	0.469	0.311	0.649 V	
V891 Tau	BY									
SY Hor	EW/KW	11.04	10.86			83.14	0.338	0.432	0.464	1.79
b Per	ELL					43.3	0.494		(1.00 V)	0.288
gam Dor	EW:	(0.05)	(0.05)			< =24.28 pi				
BD +22°669							0.13 ome	0.10 ome		
ups4 Eri						36.17 s	0.025 ome			
V1024 Tau	ACV					52.11 pi				
HR 1358						48.61 s	0.08 ome		0.52 s	
EM Eri	Unique	(0.06)								
V775 Tau	DSCTC					51.90 pi				
RR Cae	EA/WD	17.7		0.023	0.015					
HD 27691						54.48 pi				
AH Eri	UGSS	18.4				57.63 pi				
63 Tau						58.71 pi				
HD 27935										
AO Cam	EW/KW	(0.64)	(0.49)			76.9	0.400	0.350	0.86 V s 0.64 v	0.75
HR 1402										
the2 Tau	DSCTC+E:						0.198 ome	0.380 ome	0.73 V	

Name	Vbl type	Min I	Min II	D	d	i	rI	r2	II	qph
HR 1420						60.10 s				
CT Eri	EW/KE	10.52	10.27			74.5	0.484	0.277	0.90 V	0.32
HR 1401						55.38 pi				
HZ 9	E:									
BD +11°629							0.14 ome	0.07 ome	0.91 B s	
88 Tau	E:					81.08 se	0.124 ome	0.099 ome	0.894 s	
KR Per	EB/KE	11.44	11.48	0.2	0.00	83.94	0.305	0.317	0.478 y	
V833 Tau	BY					22.91 ome				
RZ Tau	EW/KW	(0.65 B)	(0.60 B)		0.05	82.88	0.5006	0.3333	0.7046 g	0.40069
HD 29376						65.25 se	0.645 ome		0.853 s	
HU Tau	EA/SD:	6.7	6.1	0.16	0.02	88.8	0.283	0.199	0.972	
FY Per	NL:	12.85		[0.18]						
V834 Tau	BY					48.62 pi				
tau Tau						48.83 s	0.805 ome		0.80 s	
AB Men	EA/SD	14.18 p	13.33 p			74.00	0.182	0.341	0.811 p	0.642
mu Eri						18.74 s				
TU Men	UGSU	17. p				65:				
NSV 01725	UG:	14.2 p				57.63 pi				
HR 1528						74.72 pi				
TV Pic	ELL	(0.055)	(0.040)			90.0	0.7476	0.0809	0.9884 V	(0.00486)
HD 30738	E									
pi4 Ori	-					10.92 s				
alp Cam						27.63 pi				
pi5 Ori	ELL					31.6	0.547		(0.75 V)	0.514
HR 1574										
UZ Oct	EB/KE	9.56	9.48		0.00; 0.05	78.54	0.506	0.287	0.760 V	0.277
7 Cam						54.18 pi				
HV 12411		14.83 p	14.83 p			66.50	0.379	0.379	0.500 p	1.000
HD 31679		8.42:	8.23							
HV 2241		14.36	14.00			85.9	0.364	0.326	0.661 V	0.54
V1192 Ori	RS									

Name	Photometric solution
RW Tau	Van Hamme, W., Wilson, R.E. 1990, AJ, 100, 1981
SZ Cam	Chochol, D. 1980, BAC, 31, 321
V490 Per	
GS Tau	
AG Per	Terrell, D. 1991, MN, 250, 209
V491 Per	
BW Eri	Baade, D., Duerbeck, H.W., Karimie, M.T., Yamasaki, A. 1982, ApSpSci, 88, 197
FO Per	
MX Per	
AG Dor	
EI Eri	
BD +23°635	
HR 1300	
BL Eri	Yamasaki, A., Jugaku, J., Seki, M. 1988, AJ, 95, 894
VW Hyi	Schoembs, R., Vogt, N. 1981, AAp, 97, 185
BZ Eri	Svechnikov, M.A., Kuznetsova, E.F. 1990, Katalog Priblizhennykh Fotometricheskikh i Absolyutnykh Elementov Zatmennykh Peremennykh Zvez
YY Eri	Nesci, R., Maceroni, C., Milano, L., Russo, G. 1986, AAp, 159, 142
V891 Tau	
SY Hor	Lapasset, E., Clariá, J.J. 1986, AAp, 161, 264
b Per	Morris, S.L. 1985, ApJ, 295, 143
gam Dor	
BD +22°669	
ups4 Eri	
V1024 Tau	
HR 1358	
EM Eri	
V775 Tau	
RR Cae	
HD 27691	
AH Eri	
63 Tau	
HD 27935	
AO Cam	Evans, E.E., III, Grossoehme, D.H., Moyer, E.J., Jr. 1985, PASP, 97, 648
HR 1402	
the2 Tau	(Antonello, E., Mantegrazza, L. 1983, Hvar Obs. Bull., 7, 335)

Name	Photometric solution
HR 1420	
CT Eri	Svechnikov, M.A., Kuznetsova, E.F. 1990, Katalog Priblizhennykh Fotometricheskikh i Absolyutnykh Elementov Zatmennykh Peremennykh Zvez
HR 1401	
HZ 9	
BD +11°629	
88 Tau	
KR Per	Chen, K.-Y., Williamon, R.M., Liu, Q., Yang, Y., Lu, L. 1985, AJ, 90, 1855
V833 Tau	
RZ Tau	Wilson, R.E., Devinney, E.J. 1973, ApJ, 182, 539
HD 29376	
HU Tau	Giuricin, G., Mardirossian, F. 1981, AAp, 97, 410
FY Per	(Shugarov, S.Yu., 1980, Astr. Tsirk., 1119, p. 3)
V834 Tau	
tau Tau	
AB Men	(Gaposchkin, S.I. 1977, SAO Spec. Rpt. 380)
mu Eri	
TU Men	Stolz, R., Schoembs, R. 1984, AstrAp, 132, 187
NSV 01725	
HR 1528	
TV Pic	(Verschuren, W., Hensberge, H., Schneider, H., Pavlovski, K. 1987, IBVS 3120)
HD 30738	
pi4 Ori	
alp Cam	
pi5 Ori	Morris, S.L. 1985, ApJ, 295, 143
HR 1574	
UZ Oct	Lapasset, E., Sisteró, R.F. 1984, AAp, 130, 97
7 Cam	
HV 12411	(Payne-Gaposchkin, C.H. 1971, SAO Contr. No. 13)
HD 31679	(Williams, D.B., Wood, J.E., Kaiser, D.H. 1990, IBVS 3481)
HV 2241	Davidge, T.J. 1987, AJ, 94, 1169
V1192 Ori	

Name	M1	M2	A	R1	R2	T1	T2	log L1	log L2	Distance	U	V	W
RW Tau	4.97	1.12											
SZ Cam	18.42	4.55								750. phi			
V490 Per	6.92 s	0.49 pi											
GS Tau													
AG Per	5.37	4.91											
V491 Per													
BW Eri													
FO Per	0.71 p	0.28 p								195. p			
MX Per													
AG Dor													
EI Eri	1:20 s												
BD +23°635													
HR 1300	1.88 se	1.87 se								82.9 s			
BL Eri	0.61	0.33								260. phi			
VW Hyi	0.72	0.164 p								69.2 p			
BZ Eri													
YY Eri	1.47	0.59								62.3 phi			
V891 Tau													
SY Hor													
b Per	2.08	0.60								88.2 phi			
gam Dor	1.54 s	<=0.066 pi								17.5 spi			
BD +22°669													
ups4 Eri	2.71 s	2.67 s								62.3 s			
V1024 Tau	2.82 s	0.196 pi								112. s			
HR 1358	1.17 s	1.16 s								42.8 s			
EM Eri													
V775 Tau	2.00 s	0.36 pi								69.8 s			
RR Cae													
HD 27691	1.29 s	0.48 pi								47.6 spi			
AH Eri	0.89 p	0.69 p								1060. k			
63 Tau	1.58 s	0.71 pi								43.5 s			
HD 27935													
AO Cam													
HR 1402													
the2 Tau													

Name	M1	M2	A	R1	R2	T1	T2	log L1	log L2	Distance	U	V	W
HR 1420	5.20 s	4.40 s								324. s			
CT Eri													
HR 1401	1.58 s	0.47 pi								44.8 s			
HZ 9													
BD +11°629													
88 Tau	1.95 se	1.19								25.9 spi			
KR Per	1.20 s	1.20 s								405. phi			
V833 Tau	0.65 s	0.131 ome											
RZ Tau	1.63	0.88								387. phi			
HD 29376	9.31 s	4.93 s								614. s			
HU Tau	3.02 s	0.99								172. phi			
FY Per													
V834 Tau	0.76 s	0.58 s											
tau Tau	6.92 s	2.04								126. spi			
AB Men	2.09 s	1.34 phi								1540. phi			
mu Eri	5.25 s	2.00 s								115. s			
TU Men	0.35	0.32 p								296. k			
NSV 01725	0.71 p	0.28 p								170. p			
HR 1528	1.58 s	1.02 pi								51.0 s			
TV Pic	2.09 s	0.81 del											
HD 30738													
pi4 Ori	12.02 s	10.96 s								345. s			
alp Cam	58.21 s	1.93 pi								1190. s			
pi5 Ori	8.72	4.48											
HR 1574													
UZ Oct													
7 Cam	2.19 s	0.65 pi								48.3 s			
HV 12411	1.08 p	1.08 p								860. phi			
HD 31679													
HV 2241	20.68	12.44								67600. phi			
V1192 Ori													

Name	Notes
RW Tau	*l3=0.0004 V
SZ Cam	del m=1.74
V490 Per	E: ((formerly ecl? del V=0.29); prob. pulsator, not bin. (see Balona, L.A. 1990, MN, 245, 92)
GS Tau	alp CVn (5.15-5.22 V); *Prot=Porb
AG Per	del m=0.37; U=76.55y; (B-V)I=+0.02; *l3=0.10 y
V491 Per	BY; Vis. orb: P=590y, T=2070., a=3.870", e=0.25, i=104°, ome=195.0°, Ome=160.3° (Heintz, W.D. 1986, AAp Sup, 65, 411)
BW Eri	
FO Per	UGSS:
MX Per	
AG Dor	RS
EI Eri	RS CVn (amp 0.19V); Prot=1.945d
BD +23°635	
HR 1300	
BL Eri	
VW Hyi	tWD=18000k
BZ Eri	
YY Eri	del m=0.22
V891 Tau	*Pphtm=6.8d
SY Hor	
b Per	LP orb: P=701.76d, K1=11.38, e=0.235, ome=263.
gam Dor	Ew? or del Sct? (4.23-4.27 V); [P>=0.539d if EW]
BD +22°669	
ups4 Eri	*Prot=0.51d
V1024 Tau	*Prot=Porb
HR 1358	del m=0.07
EM Eri	
V775 Tau	
RR Cae	
HD 27691	Vis. orb: P=255.5y, T=1891.6, a=1.185", e=0.29, i=138.0°, ome=230.3°, Ome=12.0° (Heintz, W.D. 1969, AAp, 2, 169)
AH Eri	UGSS
63 Tau	
HD 27935	del V~2.0
AO Cam	
HR 1402	
the2 Tau	del Sct? (0.03 V); del V=1.06

Name	Notes
HR 1420	
CT Eri	
HR 1401	
HZ 9	
BD +11°629	del B=2.5
88 Tau	del m=2.31; spectroscopic quintuple (Burkhart, C., Coupy, M.F. 1988, AAp, 200, 175)
KR Per	
V833 Tau	RS CVn; Prot=1.8d
RZ Tau	
HD 29376	del m=1.91
HU Tau	
FY Per	
V834 Tau	BY (amp 0.38 V)
tau Tau	del m=1.5
AB Men	
mu Eri	
TU Men	UGSU
NSV 01725	UG:
HR 1528	
TV Pic	
HD 30738	
pi4 Ori	
alp Cam	
pi5 Ori	Ell (3.70-3.77 V)
HR 1574	
UZ Oct	
7 Cam	Vis. orb: P=284.0y, T=1986.0, a=0.78", e=0.74, i=137.9°, ome=30.2°, Ome=158.2° (Baize, P. 1979, Circ. Inf., No. 79)
HV 12411	EW
HD 31679	
HV 2241	
V1192 Ori	RS (7.50-7.57V)

Name	RA(1950)	μ(RA)	Dec(1950)	μ(Dec)	Pos Ref	FK4	SRS	AGK3	SAO	GC	l	b
HW Tau	05 00 36.		+26 19		GCVS						176.91	-09.12
HV 5542	05 01 06.1		-70 09 32.								281.41	-34.72
BF Aur	05 01 32.952	+0.03	+41 13 13.94	-0.8	AGK3			+41°0510	040003		165.15	+00.09
eta Aur	05 03 00.214	+0.262	+41 10 08.38	-6.68	FK4	185		+41°0513	040026	6226	165.35	+00.27
AQ Eri	05 03 43.95		-04 12 03.6		L85						204.20	-25.23
EN Eri	05 04 17.196	+0.10	-04 43 14.92	+1.0	Per70		40998		131777	6246	204.78	-25.35
103 Tau	05 05 03.646	+0.03	+24 12 02.80	-0.5	Per70		41004	+24°0461	076974	6267	179.25	-09.56
TT Aur	05 06 14.762	-0.13	+39 31 25.41	+1.4	AGK3			+39°0590	057690		167.04	-00.23
16 Ori	05 06 34.444	+0.417	+09 46 01.19	-0.49	FK4	1142	31142	+9°0489	112467	6300	191.69	-17.46
SX Aur	05 08 10.174	-0.15	+42 06 18.30	-1.6	AGK3			+42°0566	040094		165.18	+01.61
ER Ori	05 08 50.595	+0.02	-08 36 59.85	-1.4	SAO				131854		209.20	-26.14
HV 2348	05 10 00.2		-69 24 06.		LMV						280.29	-34.16
IM Aur	05 11 47.306	-0.23	+46 21 00.58	+0.9	AGK3			+46°0472	040167		162.13	+04.63
KW Aur	05 12 08.799	-0.16	+32 37 54.05	+1.1	Per70		41030	+32°0494	057799	6411	173.30	-03.35
alp Aur	05 12 59.466	+0.775	+45 56 58.04	-42.27	FK4	193		+45°0512	040186	6427	162.58	+04.57
RS Col	05 13 33.09		-28 48 26.8								231.28	-32.44
V1193 Ori	05 13 53.16		-00 15 28.5								201.78	-21.10
CD Tau	05 14 33.482	-0.06	+20 04 48.20	-12.1	AGK3			+20°0488	077084	6463	183.95	-10.14
EO Aur	05 14 58.535	-0.27	+36 34 47.04	-1.1	AGK3			+36°0533	057857		170.43	-00.58
AR Aur	05 15 01.293	+0.30	+33 42 55.62	-1.6	AGK3			+33°0490	057858	6476	172.77	-02.23
HR 1748	05 17 03.159	+0.06	-01 27 44.10	-0.4	AGK3			-1°0536	131983	6522	203.32	-21.00
HR 1750	05 17 50.783	+0.06	+27 54 30.55	-3.1	AGK3			+27°0497	077121	6543	177.88	-05.08
HR 1752	05 18 01.655	+0.06	+29 31 15.77	+0.2	Per70		41051	+29°0559	077124	6550	176.57	-04.12
rho Aur	05 18 15.839	+0.180	+41 45 24.49	-3.87	FK4Sup	2400		+41°0555	040269	6556	166.56	+02.93
RW Dor	05 18 43.24		-68 16 33.7		LG90						278.77	-33.62
HR 1764	05 18 58.611	-0.02	-00 27 52.47	+0.3	Per70		41054	-0°0610	132024	6572	202.64	-20.09
HR 1763	05 19 00.088	-0.020	+08 22 50.64	+0.20	FK4Sup	2401	41055	+8°0591	112667	6574	194.62	-15.61
HD 35079	05 19 27.985	-0.07	-03 00 40.49	-0.1	Per70		6336		132032	6587	205.09	-21.21
NW Aur	05 19 39.		+33 26 24.		GCVS						173.55	-01.60
Brey 22	05 19 40.40		-69 42 16.6		AC						280.43	-33.27
HV 5753	05 20 11.8		-68 18 05.		LMV						278.77	-33.48
8 Lep	05 21 12.789	+0.01	-13 58 22.14	+0.5	Per70		41064		150396	6635	216.02	-25.67
BI Ori	05 21 16.94		+00 57 48.5		L85						201.61	-18.89
eta Ori	05 21 57.674	+0.05	-02 26 29.65	+0.4	Per70		41073		132071	6655	204.87	-20.39
N44C1-2	05 22 23.1		-68 01 20.								278.40	-33.32

Name	RA(1950)	μ(RA)	Dec(1950)	μ(Dec)	Pos Ref	FK4	SRS	AGK3	SAO	GC	l	b
HD 35575	05 23 04.494	-0.02	-01 32 03.78	+0.7	Per70		6381	-1°0545	132088		204.16	-19.71
Brey 26	05 23 07.39		-71 38 40.8		AC						282.64	-32.62
HR 1803	05 23 12.686	+0.01	+00 28 38.36	-1.0	AGK3			+0°0539	112752	6685	202.31	-18.71
Brey 28	05 23 52.12		-71 23 29.9		AC						282.33	-32.61
psi Ori	05 24 12.930	+0.02	+03 03 14.26	-0.3	Per70		41082	+3°0641	112775	6713	200.09	-17.22
HD 35777	05 24 28.143	+0.04	-02 24 07.49	-1.0	AGK3			-2°0133	132116	6718	205.15	-19.82
HD 35762	05 24 30.136	+0.13	+03 48 51.27	-0.6	AGK3			+3°0643	112781	6720	199.44	-16.78
IU Aur	05 24 32.790	-0.06	+34 44 31.22	+0.1	AGK3			+34°0573	058059		173.05	-00.03
QZ Aur	05 25 16.96		+33 15 57.4		D87						174.35	-00.73
HV 2505	05 25 17.5		-68 33 46.		LMV						278.99	-32.97
Sk -67°105	05 26 07.35		-67 09 38.8		AC						277.35	-33.09
Brey 31	05 26 10.14		-67 32 25.2		AC						277.77	-33.04
LY Aur	05 26 21.969	-0.02	+35 20 10.96	+0.1	AGK3			+35°0538	058105	6767	172.76	+00.61
V1159 Ori	05 26 29.		-03 36 12.		NSV						206.52	-19.94
Brey 32	05 26 47.66		-68 52 52.9		AC						279.33	-32.79
HV 2543	05 27 31.41		-67 14 16.1		AC						277.60	-32.93
TV Col	05 27 34.4		-32 51 24.6								236.79	-30.60
32 Ori	05 28 06.416	+0.08	+05 54 41.79	-3.4	Per70		41102	+5°0627	112849	6813	198.02	-14.94
T Aur	05 28 46.48	+0.02	+30 24 35.7	-1.8	(D87)						177.14	-01.70
del Ori C	05 29 26.996	+0.06	-00 19 11.93	-0.3	Per70		41108		132221	6848	203.84	-17.73
del Ori	05 29 27.017	-0.019	-00 20 04.41	-0.10	FK4	206	30206		132220	6847	203.86	-17.74
V363 Aur	05 30 09.77		+36 54 29.4		McN86						171.87	+02.12
Sk -71°34	05 30 13.		-71 02 00.								281.81	-32.17
HR 1863	05 30 35.612	-0.02	-01 45 05.11	+0.5	AGK3			-1°0575	132247	6878	205.31	-18.17
VV Ori AB	05 30 59.063	-0.03	-01 11 23.03	+0.2	Per70		41113	-1°0579	132255	6884	204.84	-17.81
VV Ori ABC	05 30 59.063	-0.03	-01 11 23.03	+0.2	Per70		41113	-1°0579	132255	6884	204.84	-17.81
HV 12615	05 31 05.3		-66 36 48.		LMV						276.60	-32.68
HR 1873	05 31 31.369	-0.01	-01 04 07.23	0.0	AGK3			-1°0582	132269	6893	204.79	-17.64
TY Men	05 31 45.039		-81 37 23.92		Per70*		18930				293.88	-29.87
AA Dor	05 32 08.18	-0.21	-69 55 06.7	+6.5	(AC)						280.48	-32.18
121 Tau	05 32 23.746	+0.063	+24 00 29.86	-1.47	FK4Sup	2415	41119	+24°0510	077285	6916	182.95	-04.52
HD 36954	05 32 39.920	+0.11	-00 46 01.02	+0.6	AGK3			-0°0670	132305		204.66	-17.24
HR 1917	05 32 43.056	+0.514	-64 15 37.10	+0.17	FK4Sup	2418	41126		249309	6927	273.80	-32.72
LMC X-4	05 32 47.3		-66 24 13.								276.34	-32.53
V1016 Ori	05 32 48.356	+0.02	-05 25 07.95	+0.3	(Per70)		41128				209.01	-19.38

Name	RA(1950)	μ(RA)	Dec(1950)	μ(Dec)	Pos Ref	FK4	SRS	AGK3	SAO	GC	l	b
BM Ori	05 32 48.669	+0.02	-05 25 00.57	+0.3	(Per70)		41128				209.01	-19.38
V1046 Ori	05 32 53.307	-0.11	-04 31 30.89	+3.0	SAO				132317	6932	208.18	-18.96
42 Ori	05 32 55.034	+0.02	-04 52 10.86	+0.1	Per70		41129		132320	6934	208.50	-19.11
the2 Ori A	05 32 55.469	0.00	-05 26 50.89	+0.6	Per70		41130		132321	6935	209.05	-19.37
HD 37042	05 32 58.911	-0.13	-05 26 52.21	+3.0	SAO				132322	6936	209.06	-19.36
HV 2656	05 32 59.1		-68 26 36.		LMV						278.74	-32.29
iot Ori	05 32 59.126	-0.029	-05 56 28.26	+0.09	FK4	209			132323	6937	209.52	-19.58
NU Ori	05 33 03.747	+0.03	-05 17 54.89	-0.5	SAO				132328		208.92	-19.27
HR 1900	05 33 05.918	-0.09	-03 17 02.12	0.0	SAO				132332	6943	207.04	-18.33
eps Ori	05 33 40.476	-0.021	-01 13 56.30	-0.23	FK4	210	30210		132346	6960	205.21	-17.24
TW Pic	05 34 02.4		-58 03 33.								266.42	-32.78
HV 5943	05 34 21.6		-66 46 13.		LMV						276.75	-32.34
HR 1913	05 34 35.124	+0.02	+08 55 22.13	-0.3	AGK3			+8°0631	112966	6981	196.20	-12.03
zet Tau	05 34 39.263	+0.011	+21 06 50.00	-2.16	FK4	211	30211	+21°0543	077336	6985	185.69	-05.64
TX Pic	05 34 41.153	-0.20	-47 20 36.96	-1.6	SAO				217422	6986	253.76	-32.01
HR 1918	05 35 00.528	+0.09	-05 58 02.16	+0.4	Per70		41139		132375	6994	209.79	-19.15
CAL G	05 35 42.4		-66 53 39.								276.88	-32.20
V725 Tau	05 35 47.963	-0.04	+26 17 18.02	-1.1	AGK3			+26°0524	077348		181.45	-02.64
SN 1987A	05 35 49.970		-69 17 57.92								279.70	-31.94
HR 1924	05 36 07.380	+0.12	+29 11 17.37	-0.5	Per70		41145	+29°0591	077354	7026	179.04	-01.03
V1030 Ori	05 36 16.398	-0.15	-02 37 17.58	+1.2	SAO				132408	7034	206.82	-17.32
Brey 65	05 36 20.69		-69 13 35.0		AC						279.61	-31.90
12S Tau	05 36 38.143	+0.094	+25 52 15.31	-2.44	FK4Sup	2424	41150	+25°0517	077360	7047	181.90	-02.71
Brey 72	05 38 09.57		-69 06 44.3		AC						279.46	-31.75
zet Ori A	05 38 14.044	+0.03	-01 58 03.05	-0.2	Per70		41158		132444	7089	206.45	-16.59
HV 12244	05 38 15.8		-72 19 33.		LMV						283.54	-31.33
BY Cam	05 38 15.9		+60 50 03.								151.83	+15.69
HR 1952	05 38 18.310	-0.09	-01 09 12.66	-0.5	Per70		41159	-1°0623	132445	7091	205.71	-16.19
iot Men	05 38 39.383	+0.34	-78 50 55.65	+1.8	SAO				256214	7102	290.68	-30.22
HD 37657	05 38 43.987	+0.05	+43 02 09.84	+1.0	AGK3			+43°0622	040544	7104	167.57	+06.79
FZ Ori	05 38 45.		+02 35 00.		GCVS						202.37	-14.29
Brey 87a2	05 39 02.11		-69 06 45.5		AC						279.45	-31.68
Brey 86	05 39 02.90		-69 06 30.3		AC						279.44	-31.67
Brey 82	05 39 03.476	+0.58	-69 07 35.21	+0.4	SAO				249329	7114	279.46	-31.67
HR 37737	05 39 08.717	+0.02	+36 10 36.86	-1.4	AGK3			+36°0576	058352		173.46	+03.24

Name	RA(1950)	μ(RA)	Dec(1950)	μ(Dec)	Pos Ref	FK4	SRS	AGK3	SAO	GC	l	b
Brey 90	05 39 17.84		-69 07 37.3		AC						279.46	-31.65
LMC X-1	05 40 05.5		-69 46 03.6								280.20	-31.52
HV 2765	05 40 15.2		-69 16 59.		LMV						279.64	-31.55
HV 12634	05 41 40.7		-71 19 14.		LMV						281.99	-31.22
TX Col	05 41 44.5		-41 03 13.								246.77	-29.73
ZZ Aur	05 42 10.19		+41 07 50.4		PI77						169.54	+06.34
HV 1020	05 43 59.5		-68 41 14.		LMV						278.91	-31.27
FS Aur	05 44 33.325		+28 34 11.05		BFW87						180.55	+00.23
IY Aur	05 44 51.095	-0.10	+43 03 59.45	+1.0	AGK3			+43°0634	040615		168.12	+07.76
V1031 Ori	05 45 05.621	-0.21	-10 32 58.15	-2.4	Per70		41181		150814	7258	215.30	-18.94
V781 Tau	05 47 05.750	-0.55	+26 56 58.03	-9.0	AGK3			+26°0562	077615		182.21	-00.15
CN Ori	05 49 40.39	+0.21	-05 25 40.8	+0.5	(W83)						211.02	-15.65
13G Tau	05 50 10.984	+0.040	+27 36 08.48	-1.37	FK4	1158	31158	+27°0559	077675	7389	182.01	+00.77
TU Cam	05 50 28.973	+0.017	+59 52 47.21	-1.95	FK4Sup	2446		+59°0506	025447	7402	153.44	+16.59
lam Col	05 51 17.886	-0.08	-33 48 40.66	+3.3	Per70		41212		196276	7416	239.36	-26.09
SZ Pic	05 51 57.204	+0.02	-43 34 01.76	-7.5	SAO				217600	7434	250.03	-28.40
chi2 Ori	05 51 58.976	-0.027	+19 44 29.91	-1.21	FK4Sup	2447	41216	+19°0500	094986	7436	188.98	-02.88
UW Ori	05 52 54.66		+20 09 52.8								188.72	-02.48
HD 40005	05 53 57.266	-0.03	+16 20 58.38	-1.7	AGK3			+16°0523	095025	7485	192.15	-04.19
CT Tau	05 55 42.40		+27 04 29.9		AC						183.08	+01.55
V1004 Ori	05 55 48.526	-0.03	+01 50 01.00	+0.2	AGK3			+1°0640	113315	7539	205.14	-10.92
bet Aur	05 55 51.579	-0.523	+44 56 40.69	-0.07	FK4	227			040750	7543	167.46	+10.41
2 Mon	05 56 41.770	-0.006	-09 33 36.62	-4.56	FK4Sup	2455	41233		132715	7565	215.67	-15.93
RW Gem	05 58 25.764	-0.12	+23 08 27.22	0.0	AGK3			+23°0588			186.80	+00.12
mu Ori B	05 59 37.852	+0.11	+09 38 56.27	-2.9	(Per70)		41245	+9°0633	113389	7635	198.68	-06.31
mu Ori A	05 59 37.854	+0.11	+09 38 56.35	-2.9	(Per70)		41245		113389	7635	198.68	-06.31

Name	Bayer	Flmstd	HR	HD	BD	CoD	CPD	Var	Other
HW Tau								HW Tau	CSV 482; SVS 1023
HV 5542									CAL 8?; HV 5542
BF Aur				32419	+41°1051			BF Aur	159.1935; LS V +41°25
eta Aur	eta Aur	10 Aur	1641	32630	+41°1058				10H Aur; CSV 100441; LS V +41°27; NSV
AQ Eri								AQ Eri	431.1934
EN Eri		66 Eri	1657	32964	-4°1044			EN Eri	288G Eri; CSV 6147; NSV 01831
103 Tau		103 Tau	1659	32990	+24°0755				LS V +24°1
TT Aur				33088	+39°1192			TT Aur	78.1907; LS V +39°16; HV 2930; N Aur 18
16 Ori	h Ori	16 Ori	1672	33254	+9°0743				12H Ori; 37G Ori; Mel 25-130; NSV 01849
SX Aur				33357	+41°1101			SX Aur	79.1907; HV 2931; LS V +42°24
ER Ori					-8°1050			ER Ori	45.1929
HV 2348									HV 2348; LMV 251
IM Aur				33853	+46°0985			IM Aur	BV 267
KW Aur		14 Aur	1706	33959	+32°0922			KW Aur	
alp Aur	alp Aur	13 Aur	1708	34029	+45°1077				Capella; 12H Aur; AFGL 713; CSV 100460;
RS Col						-28°02059	-28°00817	RS Col	634.1935; P 2718
V1193 Ori								V1193 Ori	Hamuy's vbl
CD Tau				34335	+19°0886			CD Tau	P 178
EO Aur				34333	+36°1073			EO Aur	HV 10327; LS V +36°9
AR Aur		17 Aur	1728	34364	+33°1002			AR Aur	
HR 1748			1748	34748	-1°0859				56G Ori
HR 1750			1750	34762	+27°0758				
HR 1752			1752	34790	+29°0869				
rho Aur	rho Aur	20 Aur	1749	34759	+41°1162				
RW Dor				269320				RW Dor	HV 2435
HR 1764			1764	35007	-0°0929				60G Ori
HR 1763			1763	34989	+8°0933				59G Ori; LS VI +8°1
HD 35079				35079	-3°1075				
NW Aur								NW Aur	
Brey 22									BE-559; Brey 22; FD 21; R 90; Sk -69°106;
HV 5753									HV 5753; LMV 898
8 Lep		8 Lep	1783	35337	-14°1119				43G Lep
BI Ori								BI Ori	1.1916
eta Ori	eta Ori	28 Ori	1788	35411	-2°1235			eta Ori	23H Ori
N44C1-2									LMC X-5?; N44C1-2; X0522-680?

Name	Bayer	Flmstd	HR	HD	BD	CoD	CPD	Var	Other
HD 35575				35575	-1°0889				
Brey 26				36063					BE-569; Brey 26; FD 24; L 205; Hen S 161;
HR 1803			1803	35588	+0°1056				74G Ori; CSV 100485; NSV 01975; Zi 376
Brey 28				36156					Brey 28; FD 26; L 209; Sk -71°26; WS 21
psi Ori	psi2 Ori	30 Ori	1811	35715	+2°0962			psi Ori	25H Ori; 77G Ori; CSV 100487; Zi 377
HD 35777				35777	-2°1250				
HD 35762				35762	+3°0903				
IU Aur				35652	+34°1051			IU Aur	LS V +34°25
QZ Aur								QZ Aur	N Aur 1964
HV 2505									HV 2505; LMV 395
Sk -67°105									Sk -67°105
Brey 31				36402			-67°00433		BE-45; Brey 31; FD 28; Sk -67°104; WS 23
LY Aur				35921	+35°1137			LY Aur	LS V +35°19
V1159 Ori								V1159 Ori	36.1906; CSV 579; NSV 02011; Zi 379
Brey 32				36521					BE-278; Brey 32; FD 29; Sk -68°80; W 9/17;
HV 2543									HV 2543; LMV 428; Sk -67°117
TV Col								TV Col	X0527-328 (3A,1ES,1H)
32 Ori	A Ori	32 Ori	1839	36267	+5°0939				26H Ori; 84G Ori
T Aur			1841	36294	+30°0923a			T Aur	Nova Aur (1891)
del Ori C	del Ori C	34 Ori C	1851	36485	-0°0982				29H Ori C
del Ori	del Ori	34 Ori	1852	36486	-0°0983			del Ori	Mintaka; 29H Ori; 88G Ori; INCA 2113; IRC
V363 Aur								V363 Aur	Lanning 10
Sk -71°34									L-264?; Sk -71°34
HR 1863			1863	36646	-1°0939				NSV 02131
VV Ori AB			1868	36695	-1°0943			VV Ori AB	92G Ori; 19.1913
VV Ori ABC			1868	36695	-1°0943			VV Ori ABC	92G Ori; 19.1913
HV 12615									HV 12615; LMV 1436
HR 1873			1873	36779	-1°0949				93G Ori
TY Men				37909		-81°00172	-81°00148	TY Men	BV 457
AA Dor				269696			-69°00389	AA Dor	LB 3459
121 Tau		121 Tau	1875	36819	+23°0954				
HD 36954				36954	-0°1009				
HR 1917	G Dor		1917	37297		-64°00189	-64°00456		28G Dor
LMC X-4									CAL 49; LMC X-4; X0532-664 (3A,1ES,H,I
V1016 Ori	the1 Ori A	41 Ori A	1893	37020	-5°1315A			V1016 Ori	104G Ori A; Brun 587; CSV 100581; IRC -10

Name	Bayer	Flmstd	HR	HD	BD	CoD	CPD	Var	Other
BM Ori	the1 Ori B	41 Ori B	1894	37021	-5°1315B			BM Ori	104G Ori B; Brun 595; IRC -10093; X0532-0
V1046 Ori			1890	37017	-4°1183			V1046 Ori	INCA 2115; Pi 1933
42 Ori	c1 Ori	42 Ori	1892	37018	-4°1185				38H Ori; 109G Ori; CSV 100593; NSV 02318
the2 Ori A	the2 Ori A	43 Ori A	1897	37041	-5°1319				35H Ori A; 105G Ori A; 106.1910; Brun 682;
HD 37042				37042	-5°1320				107.1910; CSV 100599; NSV 02326; Zi 435;
HV 2656									HV 2656; LMV 522
iot Ori	iot Ori	44 Ori	1899	37043	-6°1241				36H Ori; 108G Ori; X0532-059 (1ES)
NU Ori				37061	-5°1325			NU Ori	411.1928; Brun 747; P 266; Pi 2074
HR 1900			1900	37055	-3°1146				111G Ori; CSV 100606; NSV 02350; Zi 437
eps Ori	eps Ori	46 Ori	1903	37128	-1°0969			eps Ori	Alnilam; 37H Ori; 112G Ori; AFGL 4428S;
TW Pic								TW Pic	X0534-580 (H)
HV 5943									HV 5943; LMV 1003
HR 1913			1913	37232	+8°1016				114G Ori; LS VI +8°2
zet Tau	zet Tau	123 Tau	1910	37202	+21°0908			zet Tau	51H Tau; CSV 633; IRC +20113; LS V +21
TX Pic			1927	37434		-47°01940	-47°00620	TX Pic	25G Pic
HR 1918			1918	37303	-6°1262				117G Ori; CSV 100649; NSV 02467; P 296;
CAL G									CAL G; X0535-668 (A)
V725 Tau				245770	+26°0883			V725 Tau	LS V +26°5; MWC 507; S 10795; X0535+2
SN 1987A									PSR 0535-69; Sk -69°202; SN 1987A
HR 1924			1924	37367	+29°0947				LS V +29°6
V1030 Ori	sig Ori E		1932	37479	-2°1327			V1030 Ori	INCA 2117; LS VI -2°3
Brey 65				269828			-69°00409		BE-383; Brey 65; FD 55; Sk -69°209a; WS 3
125 Tau		125 Tau	1928	37438	+25°0902				(26H Aur)
Brey 72				269891			-69°00442		BE-410; Brey 72; FD 62; R 130; Sk -69°235;
zet Ori A	zet Ori A	50 Ori A	1948	37742	-2°1338A				Alnitak; 43H Ori A; 126G Ori A; CSV 10067
HV 12244									HV 12244; LMV 1241
BY Cam								BY Cam	X0538+608 (H, 1H, 4U)
HR 1952			1952	37756	-1°1004				127G Ori; NSV 02556; P 316
iot Men	iot Men		1991	38602		-78°00216	-78°00195	iot Men	28G Men
HD 37657				37657	+42°1376				LS V +43°29
FZ Ori				288166				FZ Ori	277.1934; P 2780
Brey 87a2							-69°00452Aa		Brey 87a2; FD 68; R 140
Brey 86							-69°00453		Brey 86
Brey 82				38268		-69°00324	-69°00456		32G Dor; Brey 82; FD 66; R 136; Sk -69°243
HR 37737				37737	+36°1233				LS V +36°18

Name	Bayer	Flmstd	HR	HD	BD	CoD	CPD	Var	Other
Brey 90				269928			-69°00464		AL-376; BE-421; Brey 90; FD 71; R 145; Sk
LMC X-1									CAL 78; LMC X-1; X0540-697 (3A,1ES,H,1
HV 2765									HV 2765; LMV 622
HV 12634									HV 12634; LMV 1452
TX Col								TX Col	X0541-410 (1H)
ZZ Aur					+41°1265			ZZ Aur	57.1916
HV 1020									HV 1020; LMV 146
FS Aur								FS Aur	S 3946
IY Aur					+43°1355			IY Aur	CSV 6398; LS V +43°31; Wr 135
V1031 Ori			2001	38735	-10°1281			V1031 Ori	140G Ori; BV 359; CSV 6401
V781 Tau				248087	+26°0971			V781 Tau	
CN Ori								CN Ori	39.1906
136 Tau		136 Tau	2034	39357	+27°0899				(33H Aur); NSV 02696
TU Cam		31 Cam	2027	39220	+59°0920			TU Cam	
lam Col	lam Col		2056	39764		-33°02599	-33°00938	lam Col	57G Col; CSV 6409; NSV 02709
SZ Pic				39917		-43°02114	-43°00710	SZ Pic	
chi2 Ori	chi2 Ori	57 Ori	2052	39698	+19°1126				NSV 02722
UW Ori								UW Ori	9.1904; LS V +20°6
HD 40005				40005	+16°0926				
CT Tau				249751	+27°0934			CT Tau	S 3953; SVS 1014
V1004 Ori		59 Ori	2100	40372	+1°1171			V1004 Ori	158G Ori
bet Aur	bet Aur	34 Aur	2088	40183	+44°1328			bet Aur	35H Aur; IRC +40148
2 Mon		2 Mon	2108	40536	-9°1285				(52H Ori); 2G Mon
RW Gem				250371	+23°1151			RW Gem	30.1906
mu Ori B	mu Ori B	61 Ori B	2124	40932 B	+9°1064B				53H Ori B; 162G Ori B
mu Ori A	mu Ori A	61 Ori A	2124	40932 A	+9°1064A				53H Ori A; 162G Ori A; CSV 6415; NSV 027

Name	Sp1	Sp2	T-JD 2400000	P	e	omel	V0	K1	K2	v1 sin i	v2 sin i
HW Tau				[0.108]							
HV 5542	O9(V)			~4.	0	-	-	~50.			
BF Aur	B5Vn	B5Vn	40627.7975	1.5832208	0.06	316	+10.	197	198		
eta Aur	B3V			23.97887	0	-	+5.	13.		132	
AQ Eri	sdBe			0.06063:							
EN Eri	B9VpHgCr	A1V	41384.121	5.522731	0.095	161	+32.6	103.8	100.7	<=41.	<=41.
103 Tau	B0.5V	B9.5[II-III]	44276.6	58.25	0.26	296	+10.4	30.5		98	
TT Aur	B2Vn	B4(V)	40148.4271	1.332727	0	-	+2.	184.5	276		
16 Ori	A2/F1/F3IIIm		39801.8	155.83	0.67	264	+42.9	8.2		15	
SX Aur	B1-2V	B3V	45739.5929	1.2100799	0	-	+5.	175	323	201	92
ER Ori	F8Vn	(F8V)	44610.1048	0.42339786	0.0	-	+35.	155	95		
HV 2348	(B0V)	(B1V)	32875.527	1.989998							
IM Aur	B7V	(F9V)	38327.7974	1.2472891	0.00	-	+10.	70		133	
KW Aur	A9IV del Del		41504.144	3.788568	0.0	-	-9.8	23.0		24	
alp Aur	G9III	G0III	42145.361	104.0234	0.00	-	+29.72	26.32	26.98	5.*	36.*
RS Col	G	G	45670.9118	0.67235579							
V1193 Ori	sdBe			0.0596?							
CD Tau	F7V	F5IV	41619.4075	3.435137	0.0	-	-29.8	94.4	102.0		
EO Aur	B3V	B3V	21190.3423	4.06563724	0.051	51.1	-1.06	147.9:	227.5		
AR Aur	B9.5VpHgMn	B9V	38402.1832	4.134695	0	-	+27.	114	114	10	11
HR 1748	B2.5Vn		44604.8	5.0646	0.28	52	+35.	56.	190:	203	
HR 1750	B9IV	[K6V]	28203.121	5.43373	0.076	74.6	+5.8	26.8		125	
HR 1752	A1Vs	[A4V]	21140.934	2.15165	0.000	-	-19.70	113.27	129.80	53	53
rho Aur	B3V		44412.3	34.45	0.12	31	+16.3	36.6		102	
RW Dor	K5V		46690.7787	0.285463812							
HR 1764	B3V			~4.5						110	
HR 1763	B0.5V			4.1707						45	
HD 35079	B4V		45247.050	9.807	0.67	313	+34.	71.		166	
NW Aur	[B6V]			0.125							
Brey 22	WC6	O5-6V-III	44260.5	14.926	0.17	145	+220.	222.	77		
HV 5753	(B1V)	(B1.5V)	27807.516	0.825964							
8 Lep	B2IV		44370.7	106.7	0.50	45	+21.6	14.9		23	
BI Ori	sdBe			(0.128 ACP)							
eta Ori	B0.5Vealp	B3V	46392.628	7.989255	0.004	-	+29.7	144.8	175.8	54	40
N44C1-2	O4-6			12.0?	0.61	104	+287.	98.			

Name	Sp1	Sp2	T-JD 2400000	P	e	omel	V0	K1	K2	v1 sin i	v2 sin i
HD 35575	B2V		44592.74	2.2410	0.16	197	+13.	18.		101	
Brey 26	WN7		44257.18	1.9075	0	-	+182.	213.			
HR 1803	B2.5V	[B8V]	44367.343	2.88843	0.006	-	+13.4	53.8		143	
Brey 28	WC5-6	OB [O6IV]		>~13.8	0	-	-	74.	<~28.		
psi Ori	B1III	B2V	37685.227	2.525956	0.044	285	+26.28	139.05	219.04	110	59
HD 35777	B2.5Vn			~9.5						264	
HD 35762	B2V			~3.						134	
IU Aur	B0Vp	B1V	38448.5554	1.81147536	0.04	122	+13.	209	307	190	
QZ Aur			48243.773	0.3575							
HV 2505	(B1V)	(B1.5V)	24053.784	0.992202							
Sk -67°105	O4f	O6V:	45392.10	3.301	0	-	+270.	224.	355	200	
Brey 31	WC4	O8I:*	44262.07	3.03269	0	-	+147.	275.	8.*		
LY Aur	O9.5III	O9.5II-IIIea	39061.4640	4.0024943	0	-	-3.	200	302	100	
V1159 Ori				[0.108]							
Brey 32	WC4	O6V-III	44260.11	1.91674	0	-	+244.	234.	39		
HV 2543	O9I:	O8V	27449.389	4.829052	0	-	+290.	160.	273		
TV Col	sdBe	K3V	47537.111	0.2285529	0	-	+65.	111.		315. e	
32 Ori	B5V		44996.02	3.96375	0.38	117	+6.	23.		161	
T Aur	sdBe		37614.0116	0.204378290	0	-	+50.	154.		320. e; 553. Wi	
del Ori C	B2Vsn		30381.06	9.9144	0.64	166	+4.	55.		73	
del Ori	O9.5II-III	B0III	30005.22	5.732840	0.089	50	+12.4	99.0	263	129	
V363 Aur	sdBe	K0V	44557.9495	0.32124246	0	-	+35.	162.	181	400. e	
Sk -71°34	WN3	O4	46448.54	33.95	0.41	221	+189.	157.	100		
HR 1863	B4Vn			6.8?						185	
VV Ori AB	B1V	B7V	40890.5158	1.4853784	0	-	+19.0	128.9	285.6	147	
VV Ori ABC	B1V+B7V	A7V	19810.2	119.088	0.29	359.7	+19.0	13.5			
HV 12615	(B0V)	(B2IV)	28878.403	1.809526							
HR 1873	B3V			3.5210						203	
TY Men	A3/4V	(A8V)	42054.7973	0.46166701							
AA Dor	sdO(6)	(>K4V)	43196.348685	0.2615397198	0.0	-	+2.7	32.5			
121 Tau	B2.5IV			7.83552	0	-	+11.	11.		117	
HD 36954	B4Vsn	[A4V]	26991.561	4.6239	0.116	272.6	+0.93	48.10		171	
HR 1917	G8-K0III		23108.418	180.8757	0.509	332.93	+9.83	22.36			
LMC X-4	O7III-IV	xpsr	47743.1946	1.408413	0.006	-	+272.8	37.9	407.3	170	
V1016 Ori	B0.5Vp	[F0II-III]	44194.651	65.43233	0.709	182	-5.8	40.4		101	

Name	Sp1	Sp2	T-JD 2400000	P	e	omel	V0	K1	K2	v1 sin i	v2 sin i
BM Ori	B2V	A7IV	40265.343	6.470525	0	-	+21.3	52.8	171	214	50-100
V1046 Ori	B1.5VpHer	[B9V]	35469.94	18.6217	0.38	104	+33.	28		96.*	
42 Ori	B1V			5.8585						54	
the2 Ori A	O9.5Vep	(B1V)	40581.27	20.9741	0.33	215	+24.8	62.9	162:	152	
HD 37042	B0.5V			6.57						17	
HV 2656	(B1V)	(B1V)	16820.747	1.133110	0.040 phi	138.5 phi					
iot Ori	O9IIIpHew	O9III	45236.532	29.13376	0.788	126.5	+21.2	98.0	174.0	110	40
NU Ori	B0.5V		40576.24	19.1387	0.14	358	+16.7	33.5		143	
HR 1900	B4V			~6.0						100	
eps Ori	B0Iae			~4.5						73	
TW Pic	sdBe		46083.1704	0.2722	0	-	+14.1	54.4			
HV 5943	B1.5III-V	(B3II-III)	46423.936	3.662789							
HR 1913	B2IV-V		44458.4	3.8110	0.07	-	+22.8	34.4		120	
zet Tau	B1IVe	G8III:	45230.7	132.9735	0.11	156	+15.9	11.7		310	
TX Pic	K2III			20.7:							
HR 1918	B2V		44994.496	2.1891	0.58	296	+24.	21.		217	
CAL G	B2III-IVeq	xpsr	45722.386	16.6515	0.82	222	+308.	44.		300	
V725 Tau	O9.7IIIe	xpsr	45616.33	111.158	0.494	269.2	-33.7	(21.7)	76.75	254	
SN 1987A	opsr		47544.5757	0.3127?	0.0759	264.8	-	0.21567			
HR 1924	B2IV-V	(B5V)		6.5	0	-	+25.9	~9.			
V1030 Ori	B3VpealpHer	-	42778.819	1.19080	0	-	+25.9	-3.3		160.*	
Brey 65	WN7		43846.01	3.0032	0	-	+223.	238.			
125 Tau	B3IV	[A8V]	25147.5	27.8285	0.65	344	+16.2	24.3		65	
Brey 72	WCE+WN	B1I*	43843.22	4.3092	0	-	+253.	204.	7.*		
zet Ori A	O9.5Ibe			19? or 90?						120	
HV 12244	(A4V)	(G0IV-V)	27810.311	0.527775							
BY Cam	sdBe		46586.2436	0.138423802	0	-	+1.3		198.2 e		
HR 1952	B2IV-V	B	47886.076	27.154925	0.739	81.4	+29.5	84.7	137.9	64	
iot Men	B8II		41979.85	5.288							
HD 37657	B2Vne		45293.317	3.39943	0	-	-0.19	10.97			
FZ Ori	G0V	(F7)	44024.4583	0.3999866							
Brey 87a2	WN6	[B0V]	45770.5	2.7596	0	-	+230.	70.			
Brey 86	O6Iaf		43904.8	52.7:	0	-	+233.	67.			
Brey 82	WN6		43843.00	4.377	0	-	+323.	37.			
HR 37737	O9.5III(n)	[B3V]	44923.559	2.48996	0	-	-23.2	69.7		170	

Name	Sp1	Sp2	T-JD 2400000	P	e	omel	V0	K1	K2	v1 sin i	v2 sin i
Brey 90	WN7		43861.0	25.17	0	-	+229.	82.			
LMC X-1	O8V	(x)	45023.69	4.2288	0	-	+221.	68.	129:	150	
HV 2765	B0III	(B1.5III)	46424.7534	2.149396							
HV 12634			46043.6693	1.18918778							
TX Col	sdBe	M0V	46387.973	0.2383	0	-	+3.	51.			
ZZ Aur	A7		25504.491	0.6012154							
HV 1020	(B1V)	(B6-7II-III)	27807.443	3.454064	0.177 phi	95.3 phi					
FS Aur				0.0590						476 Wi	
IY Aur	B3IV		38116.19	2.7934							
V1031 Ori	A4V	A7	44643.6665	3.405565	0.0	-	-2.6	123.23	113.93	22	43
V781 Tau	G0		43853.9096	0.3449094							
CN Ori	sdBe	M4+V	46456.929	0.163199	0	-	+20.	180.	231	510: Wi	
136 Tau	A0V	(A7V)	20148.74	5.969	0.00	-	-17.2	48.9	71	41	
TU Cam	A0IV-V	(K3IV)	38051.375	2.933241	0.0	-	-4.0	78.0		73	
lam Col	B5V	[M5V]	18000.250	0.6393949	0	-	-29.41	8.01		88	
SZ Pic	G8V			2.4410						~50	~50
chi2 Ori	B2V	(B7V)	16805.89	7.99687	0.01	151	+21.	70	176	121	
UW Ori	B		47172.2684	2.03812913							
HD 40005	B3V	[B9V]		3.306	0.0	-	+35.	77			
CT Tau	B2[V]n	(B2V)	47553.5464	0.6668303							
V1004 Ori	A5[V]m del D	[K1V]	32141.143	2.74050	0.018	183.0	+45.3	55.6		60	
bet Aur	A2IV	A2IV-V	31076.719	3.9600421	0.0	-	-17.1	107.46	111.49	31	31
2 Mon	A3/8/F2IIImv	[A7V]	43110.051	9.35749	0.16	33.9	+21.6	58.1	66.4	23	
RW Gem	B6V	F0IV	18302.655	2.8654972	0	-	+0.3	68.3			
mu Ori B	F3V	[F3V]	43745.264	4.7838	0	-	+43.6	82.0	83.3		
mu Ori A	A2.5/6/F0Vm	[F6V]	36096.517	4.447622	0	-	+40.9	29.2		24	

Name	Spectroscopic orbit
HW Tau	
HV 5542	Cowley, A.P., Crampton, D., Hutchings, J.B., Helfand, D.J., Hamilton, T.T., Thorstensen, J.R., Charles, P.A. 1984, ApJ, 286, 196
BF Aur	Mammano, A., Margoni, R., Stagni, R. 1974, AAp, 35, 143
eta Aur	Kodaira, K. 1971, PASJ, 23, 159
AQ Eri	
EN Eri	Young, A. 1976, PASP, 88, 275
103 Tau	Abt, H.A., Gomez, A.E., Levy, S.G. 1990, ApJ Suppl., 74, 551
TT Aur	Popper, D.M., Hill, G. 1991, AJ, 101,600
16 Ori	Conti, P.S. 1969, ApJ, 156, 661
SX Aur	Bell, S.A., Adamson, A.J., Hilditch, R.W. 1987, MN, 224, 649
ER Ori	Struve, O. 1944, PASP, 56, 34
HV 2348	
IM Aur	Mammano, A., et al. 1967, Asiago Contr., No. 192 = SAI Atti X Conv ...
KW Aur	Lucy, L.B., Sweeney, M.A. 1971, AJ, 76, 544
alp Aur	Batten, A.H., Hill, G., Lu, W. 1991, PASP, 103, 623
RS Col	
V1193 Ori	
CD Tau	Popper, D.M. 1971, ApJ, 166, 361
EO Aur	Pearce, J.A. 1943, PAAS, 10, 332; Popper, D.M. 1978, ApJ, 220, L11
AR Aur	Rachkovskaya, T.M. 1985, Izv. Krym. Astrofiz. Obs., 70, 134 (1987, Bull. Crimean Ap. Obs., 70, 123)
HR 1748	Morrell, N., Levato, H. 1991, ApJ Suppl., 75, 965
HR 1750	Stilwell, W.H. 1944, JRASC, 38, 163
HR 1752	Harper, W.E. 1926, Pub DAO, 3, 265
rho Aur	Abt, H.A., Gomez, A.E., Levy, S.G. 1990, ApJ Suppl., 74, 551
RW Dor	
HR 1764	
HR 1763	
HD 35079	Morrell, N., Levato, H. 1983, Rev. Mex., 8, 115
NW Aur	
Brey 22	Moffat, A.F.J., Niemela, V.S., Marraco, H. 1990, ApJ, 348, 232
HV 5753	
8 Lep	Abt, H.A., Gomez, A.E., Levy, S.G. 1990, ApJ Suppl., 74, 551
BI Ori	
eta Ori	Zizka, E.R., Beardsley, W.R. 1981, AJ, 86, 1944
N44C1-2	Pakull, M.W. 1989, Recent Developments of MC Research, ed. K.S. de Boer, F. Spite, G. Stasinska (Obs. Paris), p. 183

Name	Spectroscopic orbit
HD 35575	Morrell, N., Levato, H. 1991, ApJ Suppl., 75, 965
Brey 26	Moffat, A.F.J. 1989, ApJ, 347, 373
HR 1803	Abt, H.A., Gomez, A.E., Levy, S.G. 1990, ApJ Suppl., 74, 551
Brey 28	Moffat, A.F.J., Vogt, N., Paquin, G., Lamontagne, R., Barrera, L.H. 1986, AJ, 91, 1386
psi Ori	Lu, W. 1985, PASP, 97, 428
HD 35777	
HD 35762	
IU Aur	Mammano, A., et al. 1977, AAp, 59, 9
QZ Aur	
HV 2505	
Sk -67°105	Niemela, V.S., Morrell, N.I. 1986, ApJ, 310, 715
Brey 31	Moffat, A.F.J., Niemela, V.S., Marraco, H. 1990, ApJ, 348, 232
LY Aur	Popper, D.M. 1982, ApJ, 262, 641
V1159 Ori	
Brey 32	Moffat, A.F.J., Niemela, V.S., Marraco, H. 1990, ApJ, 348, 232
HV 2543	Niemela, V.S. 1986, Luminous Stars and Assoc. in Galaxies, IAU Symp. 116, p. 85
TV Col	Hutchings, J.B., Crampton, D., Cowley, A.P., Thorstensen, J.R., Charles, P.A. 1981, ApJ, 249, 680
32 Ori	Morrell, N., Levato, H. 1991, ApJ Suppl., 75, 965
T Aur	Bianchini, A. 1980, MN, 192, 127
del Ori C	Morrell, N., Levato, H. 1991, ApJ Suppl., 75, 965
del Ori	Monet, D.G. 1980, ApJ, 237, 513; Luyten, W.J., Struve, O., Morgan, W.W. 1939, Pub Yerkes Obs., 7, 251
V363 Aur	Schlegel, E.M., Honeycutt, R.K., Kaitchuk, R.H. 1986, ApJ, 307, 760
Sk -71°34	Niemela, V.S. 1991, IAU Symp. 143, 201
HR 1863	
VV Ori AB	Duerbeck, H.W. 1975, AAp Suppl., 22, 19
VV Ori ABC	Duerbeck, H.W. 1975, AAp Suppl., 22, 19
HV 12615	
HR 1873	
TY Men	
AA Dor	Kilkenny, D., Hill, P.W., Penfold, J.E. 1981, MN, 194, 429
121 Tau	Kodaira, K. 1971, PASJ, 23, 159
HD 36954	Neubauer, F.J. 1936, Lick Obs. Bull., 17, 185
HR 1917	Lunt, J. 1924, Ann. Cape Obs., 10, pt. 7, 19G
LMC X-4	Kelley, R.L., Jernigan, J.G., Levine, A., Petro, L.D., Rappaport, S. 1983, ApJ, 264, 568; Levine, A., Rappaport, S., Putney, A., Corbet, R., Na
V1016 Ori	Bossi, M., Gaspani, A., Scardia, M., Tadini, M. 1989, AAp, 222, 117

Name	Spectroscopic orbit
BM Ori	Popper, D.M., Plavec, M. 1976, ApJ, 205, 462
V1046 Ori	Morrell, N., Levato, H. 1991, ApJ Suppl., 75, 965
42 Ori	
the2 Ori A	Abt, H.A., Wang, R., Cardona, O. 1991, ApJ, 367, 155; Aikman, G.C.L., Goldberg, B. 1974, JRASC, 68, 205
HD 37042	
HV 2656	
iot Ori	Hilditch, R.W., Reynolds, A.P., Bell, S.A., Pollacco, D.L., Edwin, R.P. 1991, Obs., 111, 14
NU Ori	Abt, H.A., Wang, R., Cardona, O. 1991, ApJ, 367, 155
HR 1900	
eps Ori	
TW Pic	Buckley, D.A.H., Tuohy, I.R. 1990, ApJ, 349, 296
HV 5943	
HR 1913	Abt. H.A., Gomez, A.E., Levy, S.G. 1990, ApJ Suppl., 74, 551
zet Tau	Jarad, M.M., Hilditch, R.W., Skillen, I. 1989, MN, 238, 1085
TX Pic	
HR 1918	Morrell, N., Levato, H. 1991, ApJ Suppl., 75, 965
CAL G	Hutchings, J.B., et al. 1985, PASP, 97, 418
V725 Tau	Janot-Pacheco, Motch, C., Mouchet, M. 1987, AAp, 177, 91
SN 1987A	Middleditch, J., Pennypacker, C.R., Kristian, J., Graham, J.R., Heathcote, S., Imamura, S., Kunkel, W.E., Lucinio, R., Morris, D.E., Muller, R
HR 1924	Blaauw, A., van Albada, T.S. 1963, ApJ, 137, 791
V1030 Ori	(Bolton, C.T. 1974, ApJ, 192, L7; Wallerstein, G. 1959, ApJ, 130, 338)
Brey 65	Moffat, A.F.J. 1989, ApJ, 347, 373
125 Tau	Abt, H.A., Gomez, A.E., Levy, S.G. 1990, ApJ Suppl., 74, 551
Brey 72	Moffat, A.F.J., Seggewiss, W. 1986, ApJ, 309, 714
zet Ori A	
HV 12244	
BY Cam	Mason, P.A., Liebert, J.W., Schmidt, G.D. 1989, ApJ, 346, 941
HR 1952	Hilditch, R.W., Reynolds, A.P., Bell, S.A., Pollacco, D.L., Edwin, R.P. 1991, Obs., 111, 14; Pearce, J.A. 1953, AJ, 58, 46
iot Men	(Gronbech, B., Naqvi, S.I.H. 1976, AAp Sup, 26, 147)
HD 37657	Gies, D.R., Bolton, C.T. 1986, ApJ Suppl., 61, 419
FZ Ori	
Brey 87a2	Moffat, A.F.J., et al. 1987, ApJ, 312, 612
Brey 86	Moffat, A.F.J. 1989, ApJ, 347, 373
Brey 82	Moffat, A.F.J., Seggewiss, W. 1983, AAp, 125, 83
HR 37737	Gies, D.R., Bolton, C.T. 1986, ApJ Suppl., 61, 419

Name	Spectroscopic orbit
Brey 90	Moffat, A.F.J. 1989, ApJ, 347, 373
LMC X-1	Hutchings, J.B., Crampton, D., Cowley, A.P., Thompson, I.B. 1987, AJ, 94, 340
HV 2765	
HV 12634	
TX Col	Buckley, D.A.H., Tuohy, I.R. 1989, ApJ, 344, 376
ZZ Aur	
HV 1020	
FS Aur	
IY Aur	
V1031 Ori	Andersen, J., Clausen, J.V., Nordström, B. 1990, AAp, 228, 365
V781 Tau	
CN Ori	Barrera, L.H., Vogt, N. 1989, AAp, 220, 99; Friend, M.T., Martin, J.S., Smith, R.C., Jones, D.H.P. 1990, MN, 246, 637
136 Tau	Luyten, W.J. 1936, ApJ, 84, 85
TU Cam	Lucy, L.B., Sweeney, M.A. 1971, AJ, 76, 544
lam Col	(Campbell, W.W., Moore, J.H. 1928, Pub. Lick Obs., 16, 1)
SZ Pic	
chi2 Ori	Hill, G. 1969, Pub DAO, 13, 323
UW Ori	
HD 40005	Blaauw, A., van Albada, T.S. 1963, ApJ, 137, 791
CT Tau	
V1004 Ori	Nadeau, P.-H. 1952, Pub DDO, 1, 537
bet Aur	Smith, B. 1948, ApJ, 108, 504
2 Mon	Abt, H.A., Levy, S.G. 1985, ApJ Suppl., 59, 229; Elvey, C.T. 1924, ApJ, 60, 320
RW Gem	Lucy, L.B., Sweeney, M.A. 1971, AJ, 76, 544
mu Ori B	Fekel, F.C., Jr. 1980, PASP, 92, 785
mu Ori A	Fekel, F.C., Jr. 1980, PASP, 92, 785

Name	V	B-V	U-B	R-I	E(B-V)	par	Cluster	ADS	Vis Binary	Companions
HW Tau	11.5 p				0.17 m					
HV 5542	15.1 p				0.13 m		LMC			
BF Aur	8.79				0.29 m		Aur OB1			
eta Aur	3.17	-0.18	-0.67	-0.17		0.022	Cas-Tau OB1			
AQ Eri	12.5 p				0.08					
EN Eri	5.12	-0.06	-0.17	-0.10	0.00	0.024		3698 A	Sig 642 A rej	10.5, 52.8"
103 Tau	5.50	+0.06	-0.57		0.31		NGC 1746	3709 A	H V 114 A	7.7v, 0.0004"; 12.0, 13"; 8.6, 35.3"
TT Aur	8.53	+0.06	-0.65		0.27	-0.018	Aur OB1			
16 Ori	5.43	+0.24	+0.16	+0.12		0.011	Hyades		bet pm A	del m=4.5, 168.0"
SX Aur	8.382	+0.015	-0.695		0.23		Aur OB1			
ER Ori	9:33	+0.54	+0.02		0.02					13.6"
HV 2348	14.26 p				0.13 m		LMC			
IM Aur	7.90	+0.01	-0.48							
KW Aur	5.02 D	+0.23	+0.19			D0.007	(Do 16)	3824 A	Sig 653 A	11.0, 11.1"; 7.99, 14.5"; B-H all > =
alp Aur	0.08	+0.80	+0.44	+0.44	0.00	0.0768;	D0.0743	3841 AB	Anderson AB (orb);	CPM: 10.0 dM1 + 13.5 dM5, 723"
RS Col	9.51	+0.55		+0.31C						
V1193 Ori	14.09	+0.05	-0.85	+0.11						
CD Tau	6.77	+0.48	0.00		0.00	D0.021	Cr 65	3866 A	Sig 674 A	9.88V, +0.81, +0.42, dK2, 10.2"
EO Aur	7.56	+0.08	-0.64		0.28		Aur OB1			
AR Aur	6.15	-0.06	-0.18		0.00					
HR 1748	6.34	-0.11	-0.75	-0.14			Ori OB1A			
HR 1750	6.33	+0.04	-0.26		0.03					8.3, 0.00002"
HR 1752	5.67	+0.04	+0.06		0.00					6.7,0.0005"
rho Aur	5.23	-0.15	-0.57				Cas-Tau OB1			
RW Dor	10.96	+0.89	+0.54	+0.05C			(NGC 1901)			
HR 1764	5.68	-0.12	-0.65	-0.15			Ori OB1A	3941 A	h 697 A	11.6v, 37.6"
HR 1763	5.80	-0.13	-0.88	-0.13			<Ori OB1>; <Do 19>			
HD 35079	7.06	-0.03	-0.52	-0.06						
NW Aur	14.4 p				0.57 m		NGC 1893			
Brey 22	11.97	-0.19	-0.92		0.12		LH 42; LMC			
HV 5753	14.85 p				0.14 m		LMC			
8 Lep	5.25	-0.21	-0.87?							
BI Ori	13.2 p				0.13 m					
eta Ori	3.31	-0.17	-0.92	-0.23	0.114	0.007;	Cr 70	4002 Aab	Dawes 5 A (orb); H	del m=1.0, 0.044", P=9.219y; 4.8v,
N44C1-2	13.96	-0.35					LMC			

Name	V	B-V	U-B	R-I	E(B-V)	par	Cluster	ADS	Vis Binary	Companions
HD 35575	6.42	-0.17	-0.73	-0.17			Ori OB1			
Brey 26	12.69	-0.21	-0.22		0.02 u		LMC			
HR 1803	6.16	-0.18	-0.75	-0.20	0.01		Cr 70			
Brey 28	12.95	-0.30	-0.97		0.00 u		LH 50; LMC			
psi Ori	4.59	-0.21	-0.93	-0.22	0.024	-0.016	Cr 70	4039 A	Knott 3 A	10.3V, 2.7"; 12.3v, 83"
HD 35777	6.62	-0.18	-0.74	-0.17			Ori OB1			
HD 35762	6.74	-0.18	-0.74	-0.19			Ori OB1			
IU Aur	8.19	+0.22	-0.69		0.45		Aur OB1?			
QZ Aur	18.0 p									
HV 2505	14.86 p				0.14 m		LMC			
Sk -67°105	12.42	-0.15	-0.96		0.20		LMC			
Brey 31	11.50	-0.21	-0.13		0.08		NGC 1955; LMC			
LY Aur	6.66	+0.20	-0.78				Aur OB1	4072 A	Hu 217 A	8.1, 0.6"
V1159 Ori	12.5 p									
Brey 32	12.41	-0.25	-1.00		0.00 u		SL 476; LMC			
HV 2543	13.15	-0.18	-1.03		0.14		LMC			
TV Col	13.85	+0.06	-0.92		0.00 u					
32 Ori	4.49	-0.14 D	-0.55 D	-0.14 D		0.005;	Cas-Tau OB1	4115 A	Sig 728 A (orb)	5.82, B7V, 0.9"
T Aur	14.92	+0.28	-0.64		0.5 i					
del Ori C	6.85	-0.16	-0.71			0.014	Ori OB1B3	4134 C	Sig I 14 B	2.23, O9.5II, 51.7"
del Ori	2.14	-0.22	-1.05	-1.22	0.09	0.0036	Cr 70	4134 Aa	hz 42 A; bet 558 Aa	3.3, 0.15"; 14.0, 33"; 6.8, 51.7"
V363 Aur	14.23	+0.36	-0.59		0.0 u					
Sk -71°34	13.36	-0.27	-0.04		0.00 u		LMC			
HR 1863	6.46	-0.09	-0.60	-0.12		D0.002	OriOB1B2	4150 A	Sig 734 A	8.4v, 1.5"; 8.9v, B8, 30"; 9.7v, 30"
VV Ori AB	5.33	-0.19	-0.92	-0.20	0.07		Cr 70			A7V, P=119.088d
VV Ori ABC	5.33	-0.19	-0.92	-0.20	0.07		Cr 70			
HV 12615	14.44 p				0.14 m		LMC			
HR 1873	6.22	-0.17	-0.81	-0.18			Ori OB1B2	4159 A	H V 118 A	11.0v, 27.5"
TY Men	8.08	+0.39			0.27					
AA Dor	11.13	-0.27	-1.10	-0.130C	0.05		(LMC)			
121 Tau	5.38	-0.09	-0.62				Cas-Tau OB1			
HD 36954	6.97	-0.11	-0.64	-0.11	0.08		Cr 70			
HR 1917	5.34	+1.04	+0.85			0.010				
LMC X-4	13.85 B	-0.1	-1.1				LMC			
V1016 Ori	6.72	+0.02	-0.88	+0.21	0.29	0.001	Trapezium	4186 A	Sig 748 A	7.96V, B0V, 13"

Name	V	B-V	U-B	R-I	E(B-V)	par	Cluster	ADS	Vis Binary	Companions
BM Ori	7.95	+0.24	-0.49		0.29	0.001	Trapezium	4186 B	Sig 748 B	6.73V, O7, 13"
V1046 Ori	6.56	-0.13	-0.77	-0.13			NGC 1981			
42 Ori	4.59	-0.19	-0.94	-0.18	0.05		Ori OB1C2	4187 A	Dawes 4 A	7.8v, 1.5"
the2 Ori A	5.08	-0.09	-0.94			-0.001	Trapezium	4188 A	Sig I 16 A; Sig I 17	6.38V, B0.5V, 52"
HD 37042	6.38	-0.09	-0.93	-0.05		-0.001	Ori OB1C4	4188 B	Sig I 16 B; Sig I 17	5.08, -0.09, O9.5Vep, 52.5"
HV 2656	14.86 p				0.14 m		LMC			
iot Ori	2.77	-0.24	-1.08	-0.20		0.025	NGC 1980	4193 A	Sig 752 A	6.4, B7IV, 11.4"
NU Ori	6.83	+0.26	-0.65	+0.30			Ori OB1			
HR 1900	6.40	-0.12	-0.63	-0.13			Ori OB1C		Rst 4281 A	12.6v, 1.1"
eps Ori	1.70	-0.19	-1.04	-0.17		-5E-04	Ori OB1B2		bet pm A	10.4v, 179.9"
TW Pic	14.9	-0.2	-1.15	+0.1	<0.1 u					
HV 5943	14.67	-0.08	-0.90		0.14		LMC			
HR 1913	6.12	-0.17	-0.83				Ori OB1			
zet Tau	3.00	-0.19	-0.67	-0.10	0.04:	0.008	Cas-Tau OB1			5.0, 0.007"
TX Pic	6.11	+1.16								
HR 1918	6.05	-0.22	-0.93	-0.25			Ori OB1C			
CAL G	14.94	-0.02	-0.83		0.04		NGC 2034; LMC			
V725 Tau	9.00	+0.56	-0.68	+0.46			<DoDz 4>			
SN 1987A	11.58	+0.18	-0.16	+0.40C			LMC			
HR 1924	5.96	+0.16	-0.50		0.42		Cas-Tau OB1			
V1030 Ori	6.65	-0.19	-0.86		0.00	0.007	sig Ori	4241 E	Sig 762 E	7.9, 0.2"
Brey 65	13.04	-0.06	+0.07		0.19		NGC 2044; LMC			In bright group, total v=11.3:
125 Tau	5.18	-0.15	-0.68		0.05		Cas-Tau OB1		A	7.2, 0.0003"; 8.5, 0.32"
Brey 72	11.47	+0.03	+0.01		0.33		NGC 2070; LMC			B1Ia, V=11.90, 0"
zet Ori A	2.05 H	-0.21 D	-1.07 D	-0.20 D		0.024	Ori OB1B1	4263 A	Sig 774 A (orb)	4.21V, B0III, 2.4"; 9v, 58"
HV 12244	13.22 p				0.14 m		(LMC)			
BY Cam	14.62	+0.54	-0.81		0.0 u					
HR 1952	4.95	-0.21	-0.84				Cr 70			
iot Men	6.04	-0.02	-0.33							
HD 37657	7.10	+0.12	-0.72							
FZ Ori	10.7 v									
Brey 87a2	>12.3:				0.18		NGC 2070; LMC			WC5; WN6
Brey 86	11.79 b		+0.02				NGC 2070; LMC			
Brey 82	>11.4:				0.38:		NGC 2070; LMC		I 1152; del A; h 379	*uncertain which component is WR
HR 37737	8.00	+0.31	-0.62		0.63		Aur OB1			

Name	V	B-V	U-B	R-I	E(B-V)	par	Cluster	ADS	Vis Binary	Companions
Brey 90	12.08	+0.02	-0.04		0.19		NGC 2070; LMC			
LMC X-1	14.5 B				0.37		NGC 2078; LMC			
HV 2765	14.48	-0.14	-0.95		0.12		LMC			
HV 12634	15.18	-0.13			0.14 m		LH 107; LMC			
TX Col	15.7	+0.15	-1.39	+0.34	<0.1 u					15.9, F5V, 3"
ZZ Aur	10.8 p	+0.18								
HV 1020	14.94 p				0.14 m		LMC			
FS Aur	14.4 p				0.19 m					
IY Aur	9.4 p									
V1031 Ori	6.017	+0.16							McA 22 A	7.48V, A4V, 0.164"
V781 Tau	8.56	+0.59								
CN Ori	11.9 v	+0.05	-0.71	+0.08	0.00 u					
136 Tau	4.58	-0.02	+0.03	0.00	0.00	0.021		4474 A	bet 1054 A	6.3, 0.0013"; 12.0v, 15"
TU Cam	5.12	+0.02	+0.03		0.00	0.009				
lam Col	4.87	-0.15	-0.57	-0.15	0.00	0.035				
SZ Pic	7.893									
chi2 Ori	5.92	-0.17	-0.74		0.08		Cas-Tau OB1?			8.1, 0.0006"
UW Ori	10.51	+0.55	-0.45							
HD 40005	7.23	-0.13	-0.72		0.05					
CT Tau	10.34	+0.14								
V1004 Ori	5.89	+0.22	+0.16		0.07			4555 A	H V 100 A	10.6, 36.7"
bet Aur	1.89	+0.03	+0.05	-0.01	0.00	0.041;	UMa	4556 A	H VI 88 A	14.1, 13"; 10.8, 184.6"
2 Mon	5.03	+0.19	+0.16	+0.09	0.00	0.010				
RW Gem	9.53	+0.15	-0.54							11.04, 20"; 11.84, 100"
mu Ori B	4.12 D	+0.16	+0.11	+0.10	0.00	0.020;	Hyades?	4617 B	A 2715 B (orb); bet	4.65, A2V, 0.089"; 14v, 18"
mu Ori A	4.12 D	+0.16	+0.11	+0.10	0.00	0.020;	Hyades?	4617 A	A 2715 A (orb); bet	6.0, F3V, 0.089"; 14v, 18"

Name	Vbl type	Min I	Min II	D	d	i	rI	r2	II	qph
HW Tau	UGSS	>17. p				57.63 pi				
HV 5542		16.0 p								
BF Aur	EB	9.51	9.49			84.89	0.344	0.394	0.4368 V	1.20
eta Aur	-									
AQ Eri	UGZ:	17.52				57.63 pi				
EN Eri	ACV:					77.99 se	<=0.191 om	<=0.191 om	0.54 s	
103 Tau									0.86 s	
TT Aur	EB/DM	9.05	8.87			86.4	0.317	0.346	0.595 V	0.678
16 Ori	-									
SX Aur	EB/KE:	9.140	8.867			82.87	0.4324	0.3254	0.655 B	
ER Ori	EW/KW	10.01	9.97			80.43	0.3349	0.4814	0.397	1.637
HV 2348		14.99 p	14.69 p			90.00	0.338	0.274	0.668 p	
IM Aur	EA	8.51	8.05:	0.20		75.21	0.366	0.281	0.9427 y	0.3114
KW Aur	DSCTC+ELL					21.2	0.328		0.983 V	0.424
alp Aur	-					136.63	0.05:: ome	0.05 ome	0.521 y	
RS Col	EW/DW	9.92	9.91		0.021	67.6	0.395	0.395	0.525 bol	1.0:
V1193 Ori	NL									
CD Tau	EA/D	7.34	7.31	0.08	0.000	86.88	0.125	0.124	0.488 V	
EO Aur	EA/DM:	8.13	7.89	0.12		76.6	0.281	0.261	0.875	
AR Aur	EA/DM	6.82	6.70	0.07		88.5	0.099	0.0989	0.600 V	
HR 1748							0.580 ome			
HR 1750						53.24 pi				
HR 1752						67.19 s	0.218 ome	0.218 ome	0.58 s	
rho Aur										
RW Dor	EW/KW	11.69	11.50			76.75	0.34	0.44	0.485 V	1.75
HR 1764										
HR 1763										
HD 35079										
NW Aur	EW:	15.0 p	14.7 p							
Brey 22						118. P				
HV 5753		15.49 p	15.41 p			76.12	0.544	0.501	0.575 p	
8 Lep										
BI Ori	UGZ	16.7 p				57.63 pi				
eta Ori	EA+BCEP:	3.60	3.57			88.	0.147	0.109	0.64 v	
N44C1-2										

Name	Vbl type	Min I	Min II	D	d	i	rI	r2	II	qph
HD 35575										
Brey 26						68. P				
HR 1803	-									
Brey 28						>~14.73 s				
psi Ori	E/D					58.	0.280	0.214	0.706 B	
HD 35777										
HD 35762										
IU Aur	EB/SD	8.83	8.69			89.3	0.362	0.339	0.450	
QZ Aur	NA			[0.10]						
HV 2505		15.60 p	15.45 p			84.64	0.490	0.432	0.612 p	
Sk -67°105						53.21 s	0.345 ome		~0.7 s	
Brey 31										
LY Aur	EB/SD:	7.35	7.26		0.017	88.96	0.429	0.347	0.580 V*	0.621
V1159 Ori	INS:	16.0 p								
Brey 32						109. P				
HV 2543		(0.97 p)	(0.53 p)		0.03	86.9	0.316	0.254	0.453 p	
TV Col	NL+X					70.				
32 Ori										
T Aur	NB+EA	15.10		[0.103]						
del Ori C										
del Ori	EA/DM	2.26	2.20	0.13	0.000	68.	0.397	0.240	0.395*	0.40:
V363 Aur	E+NL			[0.07]		72.72				
Sk -71°34										
HR 1863	-									
VV Ori AB	EA/KE:	5.66	5.50	0.20	0.055; 0.064	90.00	0.3529	0.1709	0.9026 V	0.4568
VV Ori ABC	EA/KE:									
HV 12615		15.15 p	14.81 p			80.56	0.355	0.341	0.660 p	(0.641 assume
HR 1873										
TY Men	EW/K	8.56	8.47		0.00; 0.07	79.52	0.5423	0.2673	0.8663 V	0.2150
AA Dor	EA/D	11.60	11.21	0.07	0.02	89.0	0.14	0.074	>0.996	
121 Tau										
HD 36954						58.19 pi				
HR 1917										
LMC X-4		13.97 B	13.95 B	;0.1346		63.3	0.583		0.895 B	
V1016 Ori	EA	7.65		0.012	0.001	89.95	0.03777	0.02927		

Name	Vbl type	Min I	Min II	D	d	i	r1	r2	l1	qph
BM Ori	EA	8.65	7.98	0.10	0.04:	84.3	0.073	0.253	0.45	0.37
V1046 Ori	E:+SXARI					>70.	0.55	<0.11	0.96 V	
42 Ori	-									
the2 Ori A	-						0.426 ome		0.80 s	
HD 37042	-									
HV 2656		15.33 p	15.31 p			73.90	0.430	0.418	0.524 p	
iot Ori							0.058 ome	0.021 ome	0.834 s	
NU Ori	INSA									
HR 1900	-									
eps Ori	ACYG									
TW Pic	NL									
HV 5943		15.32	15.12			78.18	0.359	0.365	0.59 V	0.850
HR 1913										
zet Tau	E/GS+GCAS:	3.17	3.05							
TX Pic	RS									
HR 1918	-									
CAL G						79.93 se				
V725 Tau	XNGP					31.47 s	1.080 ome			
SN 1987A										
HR 1924						5.79 s			0.86 s	
V1030 Ori	SXARI					46.				
Brey 65										
125 Tau										
Brey 72										
zet Ori A	-									
HV 12244		14.27 p	13.41 p		0.00	79.7	0.424	0.373	0.895 p	0.758
BY Cam	XM					43.51 p				
HR 1952	E:						0.053 ome		0.72 s	
iot Men	ELL:	(0.05)	(0.05)							
HD 37657										
FZ Ori	EW/KW	11.3 v	11.2 v			77.50	0.440	0.282	0.67 V	0.50
Brey 87a2						14.52 pi				
Brey 86										
Brey 82										
HR 37737						38.16 pi				

Name	Vbl type	Min I	Min II	D	d	i	r1	r2	l1	qph
Brey 90						75. P				
LMC X-1						24.68 s	0.76 ome			
HV 2765		15.31	15.04			84.21	0.360	0.353	0.599 V	0.750
HV 12634		15.82	15.70			81.8	0.31	0.41	0.481 V	0.65
TX Col	XPM									
ZZ Aur	EB/KE	11.7 p	11.1 p			89.11	0.437	0.316	0.918 V	0.484
HV 1020		15.38 p	15.01 p			73.01	0.238	0.302	0.7565 p	(0.3967 assum
FS Aur	UGZ:	16.22 p				57.63 pi				
IY Aur	E	10.1 p				77.5	0.225	0.272	0.91 p	0.30
V1031 Ori	EA/DM	6.449	6.336	0.013; 0.017		85.6	0.186	0.270	0.3588 y*	
V781 Tau	EW/KW	8.94	8.90			68.	0.470	0.296	0.7	0.37
CN Ori	UGZ	15.52								
136 Tau	-					41.01 s	0.34 ome		0.801 s	
TU Cam	EB/DM	5.29	5.22			77.8	0.325	0.323	0.969 V	0.47
lam Col	ELL:					36.48 pi				
SZ Pic	RS								0.57 s	
chi2 Ori	BCEP:					75.30 s	0.492 ome		0.882 s	
UW Ori	EB/KE	11.27	11.05			86.39	0.4054	0.3209	0.668 V	0.513
HD 40005						64.15 pi				
CT Tau	EW/KE	11.12	11.12			78.5	0.408	0.342	0.59 V	0.70
V1004 Ori	DSCTC					59.37 pi				
bet Aur	EA/DM	1.98	1.98	0.06		77.76	0.149	0.136	0.551	
2 Mon						52.97 s	0.16 ome			
RW Gem	EA/SD:	11.76	9.74	0.15	0.02	89.2	0.206	0.276	0.908	0.29
mu Ori B						64.92				
mu Ori A	E:					23.79 s				

Name	Photometric solution
HW Tau	
HV 5542	
BF Aur	Schneider, D.P., Darland, J.J., Leung, K.-C. 1979, AJ, 84, 236
eta Aur	
AQ Eri	
EN Eri	
103 Tau	
TT Aur	Wachmann, A.A., Popper, D.M., Clausen, J.V. 1986, AAp, 162, 62
16 Ori	
SX Aur	Bell, S.A., Adamson, A.J., Hilditch, R.W. 1987, MN, 224, 649
ER Ori	Liu, Q., Yang, Y., Leung, K.-C., Zhai, D., Li, Y.-F. 1988, AAp Suppl., 74, 443
HV 2348	(Gaposchkin, S.I. 1977, SAO Spec. Rpt., No. 380)
IM Aur	Rafert, J.B. 1990, AJ, 100, 1253
KW Aur	Fitch, W.S., Wisniewski, W.Z. 1979, ApJ, 231, 808
alp Aur	Bagnuolo, W.G., Jr., Hartkopf, W.I. 1989, AJ, 98, 2275
RS Col	McFarlane, T.M., Hilditch, R.W. 1987, MN, 227, 381
V1193 Ori	
CD Tau	Gülmen, Ö., et al. 1980, AAp Suppl., 40, 145
EO Aur	Ramella, M., et al. 1980, ApSpSci, 70, 461
AR Aur	Cester, B., et al. 1978, AAp Suppl., 33, 91
HR 1748	
HR 1750	
HR 1752	
rho Aur	
RW Dor	Marton, S.F., Grieco, A., Sistero, R.F. 1989, MN, 240, 931
HR 1764	
HR 1763	
HD 35079	
NW Aur	(Hynek, J.A., Dunlap, J.R. 1964, Sky Tel., 28, 126)
Brey 22	Moffat, A.F.J., Seggewiss, W. 1989, Recent Developments Magellanic Clouds Research (Paris), p. 97
HV 5753	(Gaposchkin, S.I. 1977, SAO Spec. Rpt., No. 380)
8 Lep	
BI Ori	
eta Ori	Waelkens, C., Lampens, P. 1988, AAp, 194, 143
N44C1-2	

Name	Photometric solution
HD 35575	
Brey 26	Moffat, A.F.J., Seggewiss, W. 1989, Recent Developments Magellanic Clouds Research (Paris), p. 97
HR 1803	
Brey 28	
psi Ori	Hutchings, J.B., Hill, G. 1971, ApJ, 167, 137
HD 35777	
HD 35762	
IU Aur	Liu, X.-F., Leung, K.-C., Tan, H.-S. 1988, Acta Astr. Sin., 29, 138
QZ Aur	(Campbell, R., Shafter, A.W. 1991, poster paper presented at the San Diego Workshop on Cataclysmic Variables, San Diego, California)
HV 2505	(Gaposchkin, S.I. 1977, SAO Spec. Rpt., No. 380)
Sk -67°105	
Brey 31	
LY Aur	Drechsel, H., Lorenz, R., Mayer, P. 1989, AAp, 221, 49
V1159 Ori	
Brey 32	Moffat, A.F.J., Seggewiss, W. 1989, Recent Developments Magellanic Clouds Research (Paris), p. 97
HV 2543	(Gaposchkin, S.I. 1977, SAO Spec. Rpt., No. 380)
TV Col	Hellier, C., Mason, K.O., Mittaz, J.P.D. 1991, MN, 248, 5P
32 Ori	
T Aur	(Walker, M.F. 1963, ApJ, 138, 313)
del Ori C	
del Ori	Koch, R.H., Hrivnak, B.J. 1981, ApJ, 248, 249
V363 Aur	(Horne, K., Lanning, H.H., Gomer, R.H. 1982, ApJ, 252, 681)
Sk -71°34	
HR 1863	
VV Ori AB	Chambliss, C.R., Leung, K.-C. 1982, ApJ Suppl., 49, 531
VV Ori ABC	
HV 12615	(Gaposchkin, S.I. 1977, SAO Spec. Rpt., No. 380)
HR 1873	
TY Men	Lapasset, E. 1980, AJ, 85, 1098
AA Dor	Wlodarczyk, K. 1984, AA, 34, 381
121 Tau	
HD 36954	
HR 1917	
LMC X-4	Heemskerk, M.H.M., van Paradijs, J.A. 1989, AAp, 223, 154
V1016 Ori	Lohsen, E. 1976, IBVS 1129

Name	Photometric solution
BM Ori	Antokhina, E.A., Ismailov, N.Z., Cherepashchuk, A.M. 1989, Pis'ma AZh, 15, 837 (1990, Sov AJ Lett., 15, 362)
V1046 Ori	(Mauder, H. 1981, Mitt. AG, 52, 114)
42 Ori	
the2 Ori A	
HD 37042	
HV 2656	(Gaposchkin, S.I. 1977, SAO Spec. Rpt., No. 380)
iot Ori	
NU Ori	
HR 1900	
eps Ori	
TW Pic	
HV 5943	Davidge, T.J. 1987, AJ, 94, 1169
HR 1913	(Bozíc, H., Pavlovski, K. 1988, Hvar Obs. Bull., 12, 15)
zet Tau	
TX Pic	
HR 1918	
CAL G	
V725 Tau	
SN 1987A	
HR 1924	
V1030 Ori	Hunger, K., Heber, U., Groote, D. 1990, Prop. Hot Lum. Stars (SF: ASP), p. 307
Brey 65	
125 Tau	
Brey 72	
zet Ori A	
HV 12244	(Gaposchkin, S.I. 1977, SAO Spec. Rpt., No. 380)
BY Cam	
HR 1952	
iot Men	
HD 37657	
FZ Ori	Svechnikov, M.A., Kuznetsova, E.F. 1990, Katalog Priblizhennykh Fotometricheskikh i Absolyutnykh Elementov Zatmennykh Peremennykh Zvez
Brey 87a2	
Brey 86	
Brey 82	
HR 37737	

Name	Photometric solution
Brey 90	Moffat, A.F.J., Seggewiss, W. 1989, Recent Developments Magellanic Clouds Research (Paris), p. 97
LMC X-1	
HV 2765	Davidge, T.J. 1987, AJ, 94, 1169
HV 12634	Clausen, J.V., Giménez, A., Jensen, K.S. 1988, priv. comm.
TX Col	
ZZ Aur	Barone, F., Covino, E., Di Fiore, L., Milano, L., Russo, G. 1991, ApSpSci, 183, 117
HV 1020	(Gaposchkin, S.I. 1977, SAO Spec. Rpt., No. 380)
FS Aur	
IY Aur	Svechnikov, M.A., Kuznetsova, E.F. 1990, Katalog Priblizhennykh Fotometricheskikh i Absolyutnykh Elementov Zatmennykh Peremennykh Zvez
V1031 Ori	Andersen, J., Clausen, J.V., Nordström, B. 1990, AAp, 228, 365
V781 Tau	Cereda, L., Mistò, A., Niarchos, P.G., Poretti, E. 1988, AAp Suppl., 76, 255
CN Ori	
136 Tau	
TU Cam	Mezzetti, et al. 1980, AAp Suppl., 42, 15
lam Col	(Jerzykiewicz, M., Sterken, C. 1977, Acta Astr., 27, 365)
SZ Pic	
chi2 Ori	
UW Ori	Zhang, R.-X., Zhai, D.-S., Zhang, J.-T., Li, Q.-S., Zhang, X.-Y. 1990, AASinica, 31, 7 (1990, Chinese AAp, 14, 298)
HD 40005	
CT Tau	Svechnikov, M.A., Kuznetsova, E.F. 1990, Katalog Priblizhennykh Fotometricheskikh i Absolyutnykh Elementov Zatmennykh Peremennykh Zvez
V1004 Ori	
bet Aur	Johansen, K.T. 1971, AAp, 12, 265
2 Mon	
RW Gem	Cester, B., Giuricin, G., Mardirossian, F., Mezzetti, M., Milano, L. 1979, AAp Suppl., 36, 273
mu Ori B	[Heintz, W.D. 1989, PASP, submitted]
mu Ori A	

Name	M1	M2	A	R1	R2	T1	T2	log L1	log L2	Distance	U	V	W
HW Tau	0.71 p	0.28 p								164. p			
HV 5542													
BF Aur	5.10	5.08								1120. phi			
eta Aur													
AQ Eri	0.89 p	0.44 p								328. p			
EN Eri	2.55 s	2.62 s								105. s			
103 Tau										470. s			
TT Aur	8.13	5.43											
16 Ori													
SX Aur	10.28	5.87								1600. phi			
ER Ori	0.27	0.44								117. phi			
HV 2348	19.34 s	12.56 s								47900. g			
IM Aur	2.79	0.87											
KW Aur	2.69	1.14											
alp Aur	2.55	2.49								14.5 pi			
RS Col													
V1193 Ori													
CD Tau	1.41	1.30								73.6 phi			
EO Aur	14.61	9.50								1090. phi			
AR Aur	2.54	2.54								121. phi			
HR 1748													
HR 1750	2.82 s	0.63 pi								170. s			
HR 1752	2.19 s	1.91								112. s			
rho Aur													
RW Dor													
HR 1764													
HR 1763													
HD 35079													
NW Aur	4.07 s	0.00								3480. s			
Brey 22	14.80	42.67								47900. g			
HV 5753	12.64 s	11.32 s								47900. g			
8 Lep													
BI Ori	0.89 p	0.74 p								497. p			
eta Ori	14.99	12.34								411. pi			
N44C1-2													

Name	M1	M2	A	R1	R2	T1	T2	log L1	log L2	Distance	U	V	W
HD 35575													
Brey 26										47900. g			
HR 1803										469. s			
Brey 28	15.84 s	57.54 s								47900. g			
psi Ori	12.02	7.63								479. phi			
HD 35777													
HD 35762													
IU Aur	15.31	10.42								1950. phi			
QZ Aur													
HV 2505	12.95 s	10.93 s								47900. g			
Sk -67°105	79.43	50.12 s								51400. s			
Brey 31										47900. g			
LY Aur	31.58	20.91											
V1159 Ori	1.00: s	-											
Brey 32	0.68	4.10								47900. g			
HV 2543	25.72	15.08								53400. phi			
TV Col													
32 Ori													
T Aur										1320. n			
del Ori C													
del Ori	25.38	9.55								581. phi			
V363 Aur	0.81	0.73											
Sk -71°34										47900. g			
HR 1863													
VV Ori AB	7.55	3.41								370. phi			
VV Ori ABC										370. phi			
HV 12615	17.27 s	11.07 phi								47900. g			
HR 1873													
TY Men	2.04 s'	0.44								148. phi			
AA Dor	0.50 s	0.067								277. phi			
121 Tau													
HD 36954	6.92 s	1.88 pi								494. s			
HR 1917													
LMC X-4	16.52	1.54											
V1016 Ori													

Name	M1	M2	A	R1	R2	T1	T2	log L1	log L2	Distance	U	V	W
BM Ori	5.83	1.80								494. phi			
V1046 Ori	11.22 s												
42 Ori													
the2 Ori A	21.93 s												
HD 37042													
HV 2656	12.25 s	11.82 s								47900. g			
iot Ori													
NU Ori													
HR 1900													
eps Ori													
TW Pic													
HV 5943	12.88 s	10.95 phi								69700. phi			
HR 1913													
zet Tau	12.88 s												
TX Pic													
HR 1918													
CAL G	8.43 se	1.41 s								44000. s			
V725 Tau	26.73 s	1.41 s											
SN 1987A													
HR 1924	10.35 s	4.79 del								336. s			
V1030 Ori	9.77 s	0.00								468. s			
Brey 65										47900. g			
125 Tau	7.59 s									295. s			
Brey 72	15.84 s									47900. g			
zet Ori A													
HV 12244	1.87 s	1.41 s								1520. phi			
BY Cam	0.89 p	0.39 p											
HR 1952													
iot Men													
HD 37657													
FZ Ori													
Brey 87a2	15.84 s	20.02 pi								47900. g			
Brey 86										47900. g			
Brey 82										47900. g			
HR 37737	27.86 s	7.78 pi								1730. s			

Name	M1	M2	A	R1	R2	T1	T2	log L1	log L2	Distance	U	V	W
Brey 90										47900. g			
LMC X-1	30.20 s	15.92								48400. s			
HV 2765	25.12 s	18.84 phi								66700. phi			
HV 12634										47900. g			
TX Col													
ZZ Aur													
HV 1020	14.40 s	5.71 phi								47900. g			
FS Aur	0.53 p	0.118 p								513. p			
IY Aur													
V1031 Ori	2.28	2.47											
V781 Tau													
CN Ori													
136 Tau	2.24 s	1.54								63.7 s			
TU Cam	3.21	1.51								149. phi			
lam Col	4.79 s	0.158 pi								84.6 spi			
SZ Pic													
chi2 Ori	9.77 s	3.89								458. s			
UW Ori													
HD 40005	6.92 s	2.71 pi								606. s			
CT Tau													
V1004 Ori	1.82 s	0.81 pi								57.6 s			
bet Aur	2.35	2.26								22.1 phi			
2 Mon	1.89 s	1.65								67.2 s			
RW Gem	6.46	1.87											
mu Ori B	1.52	1.49								50.0 pi			
mu Ori A	1.74 s	1.13 d								50.0 pi			

Name	Notes
HW Tau	UG
HV 5542	
BF Aur	
eta Aur	betC? Doubtful vbl
AQ Eri	UGZ:
EN Eri	del m=0.19
103 Tau	del m=2.0
TT Aur	del m=0.9
16 Ori	
SX Aur	del m=0.87; (B-V)I,II=+0.022, -0.004
ER Ori	del m=0.04
HV 2348	
IM Aur	del m=2.65; PL=1382d
KW Aur	del Sct (4.94-5.10 V)
alp Aur	del m=0.09y; Vis. orb: P=0.2848066y, T=1936.5045, a=0.5523", e=0.005, i=136.63, ome=59.44, Ome=221.21 (Bagnuolo, W.G., Jr., Hart
RS Col	
V1193 Ori	
CD Tau	del m=0.26
EO Aur	del m=0.45
AR Aur	del m=0.14
HR 1748	
HR 1750	
HR 1752	del m=0.36
rho Aur	
RW Dor	
HR 1764	
HR 1763	
HD 35079	
NW Aur	
Brey 22	
HV 5753	
8 Lep	
BI Ori	UGZ
eta Ori	del m=0.47; Vis. orb: P=9.219y, T=1906.687, a=0.036", e=0.43, i=90°, ome=357.2°, Ome=312.1° (McAlister, W.A. 1987, PASP, 88, 95
N44C1-2	

Name	Notes
HD 35575	
Brey 26	
HR 1803	
Brey 28	
psi Ori	U=149y; del m=0.95 B; Ell (4.31-4.34 B)
HD 35777	
HD 35762	
IU Aur	del m=0.87
QZ Aur	t3=23...30d
HV 2505	
Sk -67°105	del m~1.0
Brey 31	*Opt companion?
LY Aur	del m=0.77; *t3=0.099 V
V1159 Ori	Ins
Brey 32	
HV 2543	
TV Col	K=12.9
32 Ori	Vis. orb: P=586y, T=2005., a=1.293", e=0.145, i=101.63°, ome=345.64°, Ome=36.35° (Siegrist, L. 1951, Urania, 36, 155)
T Aur	
del Ori C	
del Ori	U=216y; *t3=0.500
V363 Aur	
Sk -71°34	
HR 1863	
VV Ori AB	del m=2.16 V
VV Ori ABC	(Triple: see VV Ori AB)
HV 12615	
HR 1873	
TY Men	*mu unknown
AA Dor	T1=40000K; T2<4500K
121 Tau	
HD 36954	
HR 1917	
LMC X-4	
V1016 Ori	

Name	Notes
BM Ori	(B-V)I= +0.37
V1046 Ori	SX Ari (del V=0.04); *Prot=0.901175d
42 Ori	
the2 Ori A	del m=1.5
HD 37042	
HV 2656	
iot Ori	del m=1.75
NU Ori	
HR 1900	
eps Ori	Ang. diam. 1=0.00069"+/-0.00004" (Hanbury Brown, R., Davis, J., Allen, L.R. 1974, MN, 167, 121)
TW Pic	DQ
HV 5943	
HR 1913	
zet Tau	gam C (2.90-3.03 V)
TX Pic	RS (6.08-6.12 V)
HR 1918	
CAL G	
V725 Tau	
SN 1987A	SN 1987A; UBVRI at discov. epoch; Not a binary (Waldrop, M.M. 1990, Sci., 247, 910)
HR 1924	del m=2.0
V1030 Ori	SX Ari (del V=0.16); *Prot=1.190811d; log g=3.95+/-0.16
Brey 65	
125 Tau	
Brey 72	*Opt companion?
zet Ori A	Ang. diam. 1=0.00048"+/-0.00004" (Hanbury Brown, R., Davis, J., Allen, L.R. 1974, MN, 167, 121)
HV 12244	
BY Cam	AM
HR 1952	del m=1.04
iot Men	Ell
HD 37657	Non-radial puls?
FZ Ori	
Brey 87a2	Amp del m=0.03
Brey 86	
Brey 82	Combined light: v=9.51, b-v= +0.06, u-b= +0.06
HR 37737	

Name	Notes
Brey 90	
LMC X-1	
HV 2765	
HV 12634	
TX Col	
ZZ Aur	
HV 1020	
FS Aur	SU?
IY Aur	
V1031 Ori	*13=0.0937 y
V781 Tau	EW/KW
CN Ori	
136 Tau	del m=1.51
TU Cam	del m=3.2
lam Col	Ell? (amp. 0.11 V)
SZ Pic	del m~0.3; RS (7.81-7.97 V)
chi2 Ori	del m=2.18
UW Ori	
HD 40005	
CT Tau	i=85.0, r1=0.426, r2=0.414, l1=0.519 V (lc: Ishchenko, I.M. 1967, Trudy Tashkent Obs., ser. 2, 11, 88)
V1004 Ori	del Sct (5.88-5.89 v)
bet Aur	del m=0.13
2 Mon	
RW Gem	
mu Ori B	MB=3.02 fm vis orb: P=18.53y, T=1985.02, a=0.253", e=0.755, i=97.6, ome=36.5, Ome=26.4, B=0.487 (Heintz, W.D. 1989, PASP, sub)
mu Ori A	MA=2.87 fm vis orb: P=18.53y, T=1985.02, a=0.253", e=0.755, i=97.6, ome=216.5, Ome=26.4, B=0.513 (Heintz, W.D. 1989, PASP, su

Name	RA(1950)	μ(RA)	Dec(1950)	μ(Dec)	Pos Ref	FK4	SRS	AGK3	SAO	GC	l	b
chi4 Ori	06 00 29.692	+0.02	+19 41 35.51	-1.9	Per70		41249	+19°0526	095166	7662	190.03	-01.18
1 Gem B	06 01 04.774	-0.042	+23 16 04.51	-10.18	FK4	1163	31163	+23°0596	077915	7676	186.99	+00.72
HR 2150	06 03 05.306	+0.09	-10 14 15.83	+2.4	Per70		41259		151098	7721	217.01	-14.81
40 Aur	06 03 08.245	+0.172	+38 29 20.96	-5.95	FK4Sup	2465		+38°0663	058749	7723	173.87	+08.53
nu Ori	06 04 42.949	+0.036	+14 46 34.32	-2.24	FK4	232	30232		095259	7772	194.81	-02.72
HD 41724/5	06 05 08.698	+0.03	+35 08 56.35	-3.1	AGK3			+35°0614	058782		177.03	+07.29
EP Aur	06 08 17.46		+31 29 36.6		PI77						180.57	+06.12
WW Gem	06 09 03.		+23 31 06.		GCVS						187.67	+02.43
xi Ori	06 09 05.753	+0.04	+14 13 18.68	-2.3	Per70		41288	+14°0606	095362	7889	195.81	-02.06
69 Ori	06 09 10.198	+0.08	+16 08 37.04	-1.7	Per70		41289	+16°0575	095365	7891	194.13	-01.12
LB 1800	06 09 15.9		-48 43 45.								256.42	-26.55
del Pic	06 09 19.403	-0.095	-54 57 24.59	+0.77	FK4	235	30235		234359	7898	263.30	-27.68
SS Aur	06 09 35.200	+0.13	+47 45 17.68	-2.5	(BFW87)						166.01	+13.80
NSV 02872	06 10 29.		+45 31 06.		NSV						168.14	+12.96
HR 2214	06 11 33.303	-0.04	+17 55 20.05	-1.6	Per70		41297	+17°0594	095419	7956	192.85	+00.24
KR Aur	06 12 33.75	+0.06	+28 36 10.3	0.0	(D87)						183.59	+05.56
CZ Ori	06 13 51.13	-0.08	+15 25 17.8	-1.0	(W83)						195.31	-00.48
HL Aur	06 15 16.		+49 44		GCVS						164.56	+15.49
LT Gem	06 15 22.778	-0.07	+23 35 30.97	-0.5	AGK3			+23°0642	078198		188.30	+03.74
HR 2266	06 16 04.179	-0.153	-19 56 46.76	+0.12	FK4Sup	2483	41325		151334	8099	227.52	-16.05
7 Mon	06 17 18.205	-0.067	-07 48 01.79	-0.22	FK4	1170	31170		133114	8132	216.36	-10.59
45 Aur	06 17 42.423	+0.229	+53 28 28.35	-9.33	FK4Sup	2484		+53°0527	025681	8151	161.14	+17.33
zet CMa	06 18 23.546	+0.041	-30 02 23.86	+0.35	FK4	240	30240		196698	8170	237.52	-19.43
V1028 Ori	06 19 17.7		+10 55 10.		LS						199.90	-01.46
PX Car	06 19 59.828	-0.34	-54 31 28.63	+4.6	SAO				234458		263.13	-26.09
V616 Mon	06 20 11.188		-00 19 10.61								209.96	-06.54
del Col	06 20 17.110	-0.24	-33 24 35.76	-5.6	Per70		41339		196735	8214	241.03	-20.24
IM Mon	06 20 31.535	-0.01	-03 15 01.97	+0.6	SAO				133189	8224	212.62	-07.81
eps Mon A	06 21 07.050	-0.134	+04 37 11.68	+1.03	FK4	244			113810	8240	205.68	-04.03
RR Lyn	06 22 12.642	-0.328	+56 18 51.33	+1.73	FK4Sup	2491		+56°0585	025731	8281	158.63	+19.00
AH Aur	06 22 55.79	+0.08	+28 01 43.4	-2.5	(Sch29;Kr30)						185.15	+07.31
OU Gem	06 23 14.318	-0.90	+18 47 20.98	-17.5	AGK3			+18°0595	095677	8313	193.41	+03.09
BZ Cam	06 23 46.53		+71 06 34.4		W83						143.60	+23.82
HR 2370	06 28 22.604	-0.02	+11 17 15.24	-1.8	Per70		41375	+11°0697	095766	8452	200.62	+00.68
WW Aur	06 29 11.433	-0.188	+32 29 32.59	-2.17	FK4Sup	2500	41382	+32°0656	059194	8474	181.72	+10.52

Name	RA(1950)	μ(RA)	Dec(1950)	μ(Dec)	Pos Ref	FK4	SRS	AGK3	SAO	GC	l	b
V578 Mon	06 29 21.30		+04 54 54.1		AC						206.39	-02.09
SV Cam	06 30 36.832	+2.44	+82 18 46.74	-14.0	AGK3			+82°0177	001038	8513	131.57	+26.52
HR 2410	06 30 40.787	-0.19	-61 50 32.16	+0.7	SAO				249572	8515	271.43	-26.05
NS Mon	06 33 26.		+07 54 18.		GCVS						204.20	+00.21
CW Mon	06 34 20.72		+00 04 52.9		L85						211.24	-03.21
V649 Mon	06 34 29.664	0.00	+06 06 08.90	+1.4	AGK3			+6°0774	114140		205.92	-00.40
V640 Mon	06 34 43.220	-0.08	+06 10 44.47	-0.5	AGK3			+6°0776	114146	8631	205.87	-00.31
gam Gem	06 34 49.396	+0.300	+16 26 37.40	-4.37	FK4	251	30251		095912	8633	196.77	+04.45
RR Pic	06 35 09.799		-62 35 49.28								272.36	-25.67
HR 2439	06 36 27.466	+0.04	+24 38 41.02	+8.6	AGK3			+24°0698	078596	8682	189.58	+08.50
V641 Mon	06 37 43.434	-0.14	+09 51 54.72	-0.5	AGK3			+9°0748	114241		202.95	+02.05
V684 Mon	06 37 53.245	-0.12	+09 50 06.93	-1.3	AGK3			+9°0750	114246		293.99	+72.24
BT Mon	06 41 15.81		-01 58 08.85		D87						213.86	-02.62
AW Cam	06 41 58.360	+0.31	+69 40 59.44	+0.3	AGK3			+69°0313	013951		145.51	+24.97
HL CMa	06 43 03.2		-16 48 23.		W83						227.38	-08.92
V505 Mon	06 43 13.331	-0.05	+02 33 11.10	-0.9	AGK3			+2°0791	114378	8840	210.07	-00.11
DD Mon	06 43 24.		-00 13 42.		GCVS						212.56	-01.35
16 Mon	06 43 48.773	-0.043	+08 38 30.21	-0.82	FK4	1177	31177	+8°0832	114388	8856	204.73	+02.82
IR Gem	06 44 25.77		+28 09 42.5		W83						187.18	+11.64
HD 49798	06 46 34.846	+0.08	-44 15 33.53	+0.2	SAO				218207		253.71	-19.14
EZ CMa	06 52 08.092	-0.10	-23 51 51.60	+0.1	SAO				172546	9061	234.76	-10.08
HR 2577	06 52 10.273	-0.13	-01 41 31.75	+0.4	AGK3			-1°0854	133881	9063	214.87	-00.08
HI Mon	06 53 20.07		-03 58 38.9								217.03	-00.87
EQ Mon	06 55 15.		-09 44 00.		GCVS						222.36	-03.09
PSR 0655+64	06 55 49.502		+64 22 23.130								151.55	+25.24
HD 52533	06 58 56.773	-0.04	-03 02 43.49	-0.9	SAO				134061	9248	216.85	+00.80

Name	Bayer	Flmstd	HR	HD	BD	CoD	CPD	Var	Other
chi4 Ori	chi4 Ori A	64 Ori	2130	41040 A	+19°1186				CSV 100710; NSV 02803; Zi 505
1 Gem B	H Gem B	1 Gem B	2134	41116	+23°1170				1H Gem B; IRC +20131
HR 2150			2150	41547	-10°1368				5G Mon
40 Aur		40 Aur	2143	41357	+38°1377				
nu Ori	nu Ori	67 Ori	2159	41753	+14°1152				56H Ori
HD 41724/5				41724/5	+35°1345				
EP Aur								EP Aur	53.1936; P 2807
WW Gem				253102				WW Gem	HV 3559
xi Ori	xi Ori	70 Ori	2199	42560	+14°1187				58H Ori
69 Ori	f1 Ori	69 Ori	2198	42545	+16°1035				57H Ori
LB 1800									LB 1800; X0609-487 (4U)
del Pic	del Pic		2212	42933		-54°01344	-54°00980	del Pic	48G Pic; CSV 6433
SS Aur								SS Aur	31.1907
NSV 02872									39.1932; CSV 723; NSV 02872; Zi 511
HR 2214			2214	42954	+17°1182				
KR Aur								KR Aur	CSV 6435; KUV 06126+2836; S 5420
CZ Ori								CZ Ori	144.9128
HL Aur								HL Aur	CSV 729; S 4727
LT Gem				254699	+23°1286			LT Gem	LS V +23°49
HR 2266			2266	43955	-19°1407		-19°01177		13G CMa
7 Mon		7 Mon	2273	44112	-7°1373				2H Mon; 21G Mon
45 Aur		45 Aur	2264	43905	+53°1008				
zet CMa	zet CMa	1 CMa	2282	44402		-30°03038	-30°01217		1H CMa; 18G CMa; NSV 02927
V1028 Ori				255930	+10°1104			V1028 Ori	LS VI +10°4
PX Car				44863		-54°01411	-54°01026	PX Car	BV 646; CSV 102509
V616 Mon								V616 Mon	Mon X-1; N Mon 1917, 1975; X0620-003 (3
del Col	del Col	(3 CMa)	2296	44762		-33°02927	-33°01122		91G Col; AFGL 924
IM Mon				44701	-3°1413			IM Mon	24G Mon
eps Mon A	eps Mon A	8 Mon A	2298	44769	+4°1236				3H Mon A; 25G Mon A
RR Lyn			2291	44691	+56°1125			RR Lyn	
AH Aur				256902	+28°1116			AH Aur	220.1928
OU Gem				45088	+18°1214			OU Gem	Gl 233; X0623+187 (1ES)
BZ Cam								BZ Cam	0623+711
HR 2370			2370	45995	+11°1204				
WW Aur			2372	46052	+32°1324			WW Aur	3.1918

Name	Bayer	Flmstd	HR	HD	BD	CoD	CPD	Var	Other
V578 Mon				259135	+4°1299			V578 Mon	LS VI +4°11; NGC 2244-34
SV Cam				44982	+82°0174			SV Cam	427.1928; X0630+823 (EXO)
HR 2410			2410	46792		-61°01394	-61°00669		63G Pic
NS Mon				260416	+7°1367			NS Mon	297.1934; CSV 783; P 2867
CW Mon								CW Mon	61.1936; P 2872
V649 Mon				47088	+6°1308			V649 Mon	LS VI +6°4
V640 Mon			2422	47129	+6°1309			V640 Mon	60G Mon; Plaskett's Star; CSV 100751; LS V
gam Gem	gam Gem	24 Gem	2421	47105	+16°1223				Alhena; 5H Gem; AFGL 975; IRC +20154
RR Pic								RR Pic	N Pic 1925; He 3-15
HR 2439			2439	47415	+24°1343				
V641 Mon				47732	+9°1331			V641 Mon	NGC 2264-50
V684 Mon				47755	+9°1332			V684 Mon	NGC 2264-74
BT Mon								BT Mon	67.1939; N Mon 1939
AW Cam				48049	+69°0389			AW Cam	BV 412
HL CMa								HL CMa	X0643-168 (1E,1ES)
V505 Mon				48914	+2°1379			V505 Mon	HBV 447; LS VI +2°18
DD Mon				292319				DD Mon	301.1934; P 2901
16 Mon		16 Mon	2494	48977	+8°1486				73G Mon
IR Gem								IR Gem	S 5423
HD 49798				49798		-44°02920	-44°01096		
EZ CMa			2583	50896		-23°04553	-23°01588	EZ CMa	CSV 6527; He 3-20; INCA 1075; LSS 98; M
HR 2577			2577	50820	-1°1446				91G Mon; LS VI -1°12; MWC 827; NSV 032
HI Mon				51076	-3°1648			HI Mon	LS VI -3°5
EQ Mon								EQ Mon	92.1936; P 2946
PSR 0655+64									PSR 0655+64
HD 52533				52533	-2°1885				LS VI -3°13

Name	Sp1	Sp2	T-JD 2400000	P	e	omel	V0	K1	K2	v1 sin i	v2 sin i
chi4 Ori	B7III	B8III	43164.21	14.57221	0.387	65.1	+12.12	35.02	38.98	<=5.	<=5.
1 Gem B	G8III	[F2V]	40446.028	9.59659	0	-	+31.7	51.7			
HR 2150	F4V			~5.5	0.	-	+32.5	~50.			
40 Aur	A7/A7/F2(IV)	A7(V)m	20468.197	28.28	0.556	178.41	+16.91	51.38	62.51	26	
nu Ori	B3V		36475.852	131.211	0.644	6.6	+24.1	33.3	(213:)	41	
HD 41724/5	A2m		46338.341	2.887679	0.	-	+10.9	71.7		25	
EP Aur	F8	(G8IV)	26309.382	0.5910080							
WW Gem	B6	(B7.5)	25984.257	1.237811							
xi Ori	B3IV	[A4V]	41962.3	45.10	0.26	205	+19.3	22.4		223	
69 Ori	B5Vn			19.0	0.	-	+22.4	~15.		303	
LB 1800	sdBe		46836.9620	0.231928	0.	-	-	134			
del Pic	B3III	O9V	41695.336	1.672541	0.050	90	+30.6	167.0	316	221	
SS Aur	sdBe	M1V	46864.825	0.1828	0.0	-	+42.	70	174	558 Sh; 450: e; 47	
NSV 02872				[0.108]							
HR 2214	A8/A6/A7(III)	[A7III]	40003.89	23.807	0.74	260	+28.8	92.9:	117	47	
KR Aur	sdBe		45000.7144	0.1627975	0.	-	-10.	90		503 Sh; 246 Wi	
CZ Ori	sdBe			0.180				~50.		458 Wi	
HL Aur	F4	(G4IV)	25588.427	0.6225058							
LT Gem	B1V	(B1V)		1.2516*						115	
HR 2266	B2V		44493.7	70.6	0.56	269	+17.9	20.7		88	
7 Mon	B2.5V		44451.8	15.78	0.30	75	+16.5	40.4		152	
45 Aur	F5III	[M0V]	44498.494	6.501150	0	-	-0.4	32.0		14	
zet CMa	B2.5V		16508.0	675.	0.57	207	+32.2	13.5		63	
V1028 Ori	B2IV			3.							
PX Car	A9IV		28656.275	0.795171	0.	-	-	105			
V616 Mon	K4V	Pec	46082.8289	0.323014	0.	-	+22.	453	43	82	580. e
del Col	G7II		19915.02	868.78	0.695	117.08	-2.56	10.61			
IM Mon	B5Vn	B8n	33339.914	1.190243	0.062	341.85	+5.50	170.90	256.85		
eps Mon A	A5IV			331.	0.7	331	+19.	30		124	
RR Lyn	A2.5/7/F0Vm	F0V	33155.9863	9.945079	0.081	176.1	-11.61	65.87	83.1	37	
AH Aur	G1V		36495.571	0.4942624							
OU Gem	K3Ve	K5V	40203.163	6.991868	0.141	81.4	-10.37	55.97	66.88	5.6*	5.6
BZ Cam			46073.871	0.139031?	0.	-	-82.	71			
HR 2370	B2IVe		45032.010	5.286266?	0.68	7.6	+22.5	31		250	
WW Aur	A1/2:/3[V]m	A3m:	32945.53930	2.52501922	0.	-	-8.68	115.62	127.73	35	35

Name	Sp1	Sp2	T-JD 2400000	P	e	omel	V0	K1	K2	v1 sin i	v2 sin i
V578 Mon	B0V	B0V		2.420	0.	-	-	175	175	125	
SV Cam	G2-3V	K4V	42594.61518	0.59306995	0.0	-	-11.2	122.3		105:*	
HR 2410	B3V	[B5V]	31998.871	2.9723	0.10	39	+34.	119			
NS Mon	G0	(G0)	41599.600	0.9399163							
CW Mon			46087.9358:	0.17616							
V649 Mon	B1III			1.4744							
V640 Mon	O7.5I	O6I	33897.312	14.396100	0.0	-	+23.1	203.7	173	75	310
gam Gem	A0IV		34766.0	4613.6	0.8959	312.5	-12.65	11.87		32	
RR Pic	sdBe			0.14502545	0.	-	+5.:	120			266e
HR 2439	F8IV	[F9V]	42495.696	5.698292	0.0	-	+30.2	43.9	52.3		
V641 Mon	B1.5IV	B2V	43215.133	1.304054	0.015	244.2	+17.5	140.0	191.8		
V684 Mon	B4(IV)	B5(IV)	44617.8081	1.851378	0.	-	+36.	149	198		
BT Mon	sdBe	K5-7	43491.7155	0.3338141	0.	-	-	(421.)		424 Wi	
AW Cam	A0V	F2(V)	38738.309	0.7713468	0.12	10	+3.	115			
HL CMa	sdBe	(M1V)	45329.667	0.2145	0.	-	+7.	72		500 Wi	
V505 Mon	B5Ibealp	B5(II)	44625.094	53.7805	0.06	15	+32.	83	155		
DD Mon	F5IV-V		46443.965	0.56801409	0.	-	+8.1	89.1			
16 Mon	B2.5V		44466.7	16.88	0.36	269	+17.9	20.3			
IR Gem	sdBe	(M5V)	45286.9126	0.06837	0.	-	+58.6	31.8		511 Wi	
HD 49798	sdO6p	[G8V]	39903.19	1.547671	0.03	47	+13.5	119.2		45	
EZ CMa	WN5	B [A5V]	43211.72	3.766	0.34	348	+46.9	36.1			
HR 2577	B3IVe	K2II		18.612135?						130	
HI Mon	B1V	(B2)	30315.350	1.5744326							
EQ Mon				(0.071 ACP)							
PSR 0655+64	(psr)	wd	46067.2679741	1.0286697025	0.0000075	276	-	87.43781			
HD 52533	O9V	[B8V]	44988.973	3.29510	0.234	4.8	+41.76	34.6		307	

Name	Spectroscopic orbit
chi4 Ori	Fekel, F.C., Scarfe, C.D. 1986, AJ, 92, 1162
1 Gem B	Griffin, R.F., Radford, G.A. 1976, Obs., 96, 188
HR 2150	Woolley, R., Penston, M.J., Harding, G.A., Martin, W.L., Sinclair, J.E., Haslam, C.M., Aslan, S., Savage, A., Aly, K., Assad, A.S. 1981, R.
40 Aur	Young, R.K. 1917, Pub Dom. Obs., 4, 95
nu Ori	Ebbighausen, E.G., Petrie, R.M. 1959, Pub DAO, 11, 247
HD 41724/5	Carquillat, J.M., Ginestet, N., Pedoussaut, A. 1988, AAp Suppl., 75, 305
EP Aur	
WW Gem	
xi Ori	Abt, H.A., Levy, S.G. 1978, ApJ Suppl., 36, 241
69 Ori	Blaauw, A., van Albada, T.S. 1963, ApJ, 137, 791
LB 1800	Buckley, D.A.H., Sullivan, D.J., Remillard, R.A., Tuohy, I.R., Clark, M. 1990, ApJ, 355, 617
del Pic	Thackeray, A.D. 1966, MN, 131, 435
SS Aur	Shafter, A.W., Harkness, R.P. 1986, AJ, 92, 658; Friend, M.T., Martin, J.S., Smith, R.C., Jones, D.H.P. 1990, MN, 246, 637
NSV 02872	
HR 2214	Abt, H.A., Levy, S.G. 1985, ApJ Suppl., 59, 229
KR Aur	Shafter, A.W. 1983, ApJ, 267, 222
CZ Ori	Ringwald, F., Thorstensen, J.R., Hamwey, R. 1989, in prep.
HL Aur	
LT Gem	
HR 2266	Abt, H.A., Gomez, A.E., Levy, S.G. 1990, ApJ Suppl., 74, 551
7 Mon	Abt, H.A., Gomez, A.E., Levy, S.G. 1990, ApJ Suppl., 74, 551
45 Aur	Mayor, M., Mazeh, T. 1987 AstrAp, 171, 157
zet CMa	Colacevich, A. 1941, Oss. e Mem. Arcetri, 59, 15
V1028 Ori	
PX Car	Ammann, M., Mauder, H. 1976, Mitt. AG, 38, 232
V616 Mon	Johnston, H.M., Kulkarni, S.R. 1990, Accretion-Powered Compact Binaries, p. 17; Haswell, C.A., Shafter, A.W. 1990, ApJ, 359, L47; Johnsto
del Col	Jones, H.S. 1928, Ann. Cape Obs., 10, pt. 8, 45
IM Mon	Pearce, J.A. 1951, AJ, 56, 137
eps Mon A	Abt, H.A. 1965, ApJ Suppl., 11, 429
RR Lyn	Kondo, M. 1976, Ann. Tokyo Obs., (2), 16, 1
AH Aur	
OU Gem	Tomkin, J. 1980, AJ, 85, 294
BZ Cam	Lu, W., Hutchings, J.B. 1985, PASP, 97, 990
HR 2370	Harmanec, P. 1987, BAC, 38, 283
WW Aur	Kitamura, M., et al. 1976, Ann. Tokyo Obs., (2), 16, 22

Name	Spectroscopic orbit
V578 Mon	Montle, R.E. 1972, BAAS, 4, 27
SV Cam	Rainger, P.P., Hilditch, R.W., Edwin, R.P. 1991, MN, 248, 168
HR 2410	Sahade, J., Landi Dessy, J. 1950, ApJ, 111, 191
NS Mon	
CW Mon	
V649 Mon	
V640 Mon	Stickland, D.J. 1987, Obs., 107, 68; Bagnuolo, W.G., Jr., Gies, D.R., Wiggs, M.S. 1992, ApJ, 385, 708
gam Gem	Kamper, K., Beardsley, W.R. 1987, AJ, 94, 1302
RR Pic	Wyckoff, S, Wehinger, P.A. 1977, Veröff. Remeis-Sternw. Bamberg, 11, 201; Haefner, R., Betzenbichler, W. 1991, IBVS 3665
HR 2439	Nadal, R., et al. 1983, AAp Suppl., 52, 293
V641 Mon	Beardsley, W.R., Jacobsen, T.S. 1978, ApJ, 222, 570
V684 Mon	(Koch, R.H., et al. 1986, AJ, 91, 590)
BT Mon	Seitter, W.C. 1984, ApSpSci, 99, 95
AW Cam	Mammano, A., et al. 1967, MemSAIt, 38, 509
HL CMa	Wargau, W., et al. 1983, AAp, 125, L1
V505 Mon	Stagni, R., Margoni, R., Mammano, A. 1982, ApSpSci, 88, 115
DD Mon	Yamasaki, A., Okazaki, Y., Liu, Q., Yang, Y., Zhang, Z., Zhang, Y. 1990, AJ, 99, 1218
16 Mon	Abt, H.A., Gomez, A.E., Levy, S.G. 1990, ApJ Suppl., 74, 551
IR Gem	Feinswog, L., Szkody, P., Garnavich, P. 1988, AJ, 96, 1702
HD 49798	Thackeray, A.D. 1970, MN, 150, 215
EZ CMa	Firmani, C., et al. 1980, ApJ, 239, 607
HR 2577	(Harmanec, P. 1987, BAC, 38, 283)
HI Mon	
EQ Mon	
PSR 0655+64	Jones, A.W., Lyne, A.G. 1988, MN, 232, 473
HD 52533	Gies, D.R., Bolton, C.T. 1986, ApJ Suppl., 61, 419

Name	V	B-V	U-B	R-I	E(B-V)	par	Cluster	ADS	Vis Binary	Companions
chi4 Ori	5.15	-0.11	-0.44		0.02				McA 24 A	6.67, B5V, 0.06", P=4758d
1 Gem B	4.16 D	+0.82	+0.52	+0.45	0.00	0.031			Kui 23 B (orb)	5.1, G8III, 0.19"; 13.0v, 101"
HR 2150	5.87	+0.37	+0.04							
40 Aur	5.36	+0.25	+0.15	+0.09	0.02	0.004				
nu Ori	4.42	-0.17	-0.66	-0.16		-0.032	Cas-Tau OB1			
HD 41724/5	7.67 v									
EP Aur	10.8 p									
WW Gem	9.9 p									
xi Ori	4.48	-0.18	-0.65	-0.16	0.03	-0.001	Cas-Tau OB1		J 2016 A	12.4, 40.0"
69 Ori	4.95	-0.14	-0.58	-0.14			Cas-Tau OB1			
LB 1800	13.49	-0.59	+0.23	+0.35						
del Pic	4.65	-0.23	-1.03	-0.26						
SS Aur	10.8 v				0.1 u	0.010				
NSV 02872	11.2 p				0.07 m					
HR 2214	5.88 D	+0.22	+0.15	+0.11	0.07				Kui 24	del m=0.0, 0.27"
KR Aur	13.0	+0.10	-0.95		0.05 u					
CZ Ori	12.1 v				0.0 u					
HL Aur	10.8 p									
LT Gem	8.96	+0.39	-0.47		0.65		Cr 89			
HR 2266	5.52	-0.18								
7 Mon	5.27	-0.19	-0.75							
45 Aur	5.36	+0.43	+0.12		0.04	0.022				
zet CMa	3.026	-0.212	-0.665	-0.18		0.004			Smyth A	7.7v, 157.5"
V1028 Ori	9.69	+0.11	-0.56							
PX Car	9.65									
V616 Mon	11.15	+0.20	-0.79							
del Col	3.840	+0.883	+0.515	+0.47		0.019	UMa			
IM Mon	6.55	-0.15	-0.64		0.00					
eps Mon A	4.44	+0.18	+0.13	+0.10		0.025	<Do 22>	5012 A	Sig 900 A	6.72V, F5V, 12.9"; 12.2v, 93"
RR Lyn	5.64	+0.24	+0.12	+0.10	0.01	0.023;	Sirius scl			
AH Aur	10.17	+0.64								
OU Gem	6.79	+0.95	+0.62	+0.54	0.00	0.063		5054 A	bet 1191 A	13.7, 1.3"
BZ Cam	12.7				0.05 u					
HR 2370	6.14	-0.08	-0.86			D0.009	<Mon OB1>	5153 A	Sig 921 A	9.09V, B9IV, 16.1"
WW Aur	5.79	+0.14	+0.15	+0.02	0.00					

Name	V	B-V	U-B	R-I	E(B-V)	par	Cluster	ADS	Vis Binary	Companions
V578 Mon	8.54	+0.17	-0.70				NGC 2244			
SV Cam	8.40	+0.72	+0.46							
HR 2410	6.15	-0.15			0.04					
NS Mon	10.6 p									
CW Mon	12.5 v				0.07 m					
V649 Mon	7.61	-0.03	-0.78							
V640 Mon	6.06	+0.05	-0.88				Mon OB2			
gam Gem	1.93	0.00	+0.04	-0.01		0.0326;	D0.0300		bet pm A; H V 71 A	10.9v, 143.5"; 11.2v, 135.5"
RR Pic	12.26	-0.09	-0.96		0.05 u					
HR 2439	6.38	+0.53			0.00					
V641 Mon	8.11	-0.12	-0.73		0.16		NGC 2264	5316 A	Sig 951 A	10.91, 21.4"; 12.46, 25.8"
V684 Mon	8.51	-0.12	-0.62	-0.12	0.09		NGC 2264?			
BT Mon	16.60	+0.25								
AW Cam	8.22	+0.02	-0.07		0.00					
HL CMa	10.5 v				0.10 u					
V505 Mon	7.15	-0.04			0.06		(Mon OB2)			
DD Mon	10.64	+0.57								
16 Mon	5.93	-0.17	-0.69							
IR Gem	12.14	-0.10	-0.81		0.00 u					
HD 49798	8.27	-0.30	-1.16		0.00		(Vel OB1)			
EZ CMa	6.88	-0.10	-0.16	+0.06	0.08 u		(Cr 121)			
HR 2577	6.21	+0.56	-0.35	+0.66						
HI Mon	9.3						(Mon OB3?)			
EQ Mon	13.4 p				0.12 m					
PSR 0655+64	22.2									
HD 52533	7.69	-0.08	-0.95		0.23		Mon OB3?	5705 A	A 518 A; Sig 1010 A	

Name	Vbl type	Min I	Min II	D	d	i	rI	r2	II	qph
chi4 Ori	-					23.85 s	< =0.04 ome	< =0.04 ome	0.66 V s	
I Gem B						70.01 pi				
HR 2150										
40 Aur						68.86 s	0.080 ome		0.59 s	
nu Ori							0.044: ome			
HD 41724/5										
EP Aur	EB	11.3 p	10.9 p			75.5	0.360	0.295	0.86 p	0.40
WW Gem	EB/KE	10.5 p	10.3 p			78.	0.378	0.370	0.62 p	0.96
xi Ori						57.07 pi				
69 Ori										
LB 1800		15.80		[0.104]						
del Pic	EB/D:	4.90	4.83	0.18		65.20	0.377	0.278	0.817 bol	(0.55)
SS Aur	UGSS	14.69				31.89 w				
NSV 02872	UG:	14.5 p				57.63 pi				
HR 2214						81.90 se	0.041 ome			
KR Aur	Unique	> 17.6 p				31.84 w				
CZ Ori	UGSS	15.6				57.63 pi				
HL Aur	EB/SD	11.9 p	11.0 p			81.5	0.384	0.288	0.85 p	0.37
LT Gem	E	9.19				46.0	0.459	0.303	0.696 B	0.402
HR 2266										
7 Mon										
45 Aur						55.32 pi				
zet CMa	BCEP:									
V1028 Ori	EB	9.94								
PX Car	EB/KE	10.45	10.10			81.11	0.436	0.321	0.849	0.525
V616 Mon	XND + ELL:	18.35				60.	0.165 ome			
del Col										
IM Mon	EB/KE	6.49 B	6.47 B			65.1	0.328	0.184	0.916	
eps Mon A										
RR Lyn	EA/DM	6.03	5.90	0.044	0.000	86.7	0.086	0.064	0.73	
AH Aur	EW/KW	10.67	10.67			74.	0.422	0.295	0.66 V	0.60
OU Gem	BY					74.54 s	0.043 ome	0.041 ome		
BZ Cam	NL									
HR 2370										
WW Aur	EA/DM	6.54	6.43			87.4	0.162	0.151	0.560 V	

Name	Vbl type	Min I	Min II	D	d	i	rI	r2	II	qph
V578 Mon	E	8.57				65.	0.312	0.271	0.57 V	0.8
SV Cam	EA/DW/RS	9.11	8.55:	0.17		89.5	0.326	0.205	0.947*	
HR 2410						66.81 pi				
NS Mon	EW/DW	11.1 p	11.1 p			80.5	0.238	0.238	0.50 p	1.0
CW Mon	UGSS	16.50				~65.				
V649 Mon	ELL:	(0.05)								
V640 Mon	Unique					109. P	0.199 ome	0.823 ome	0.67 V s	
gam Gem						101.3				
RR Pic	NB	12.45				~65.				
HR 2439						37.29 s				
V641 Mon	ELL	(0.07)	(0.07)			46.	0.33	0.35	0.60 y	
V684 Mon	EA/DM	8.65	8.64	0.044; 0.044	0.00	62.14	0.369	0.293	0.643 V	
BT Mon	NA + EA	18.1		[0.117]						
AW Cam	EB/KE	8.66	8.36			75.45	0.390	0.255	0.914 V	(> =0.219)
HL CMa	UGSS + XM	13.2				35.44 w				
V505 Mon	EB/GS/D	7.65	7.55			63.3	0.267	0.183	0.718 V	
DD Mon	EB/KE	11.28	10.98			80.0	0.405	0.277	0.82 V	0.70
16 Mon										
IR Gem	UGSU	14.45				26.72 w				
HD 49798						74.78 pi				
EZ CMa	WR					135. P				
HR 2577	-									
HI Mon	EB/KE	(0.59 p)	(0.52 p)			84.	0.397	0.352	0.62 V	0.78
EQ Mon	UGSU	16.0 p				57.63 pi				
PSR 0655 + 64						84.*				
HD 52533						45.19 pi				

Name	Photometric solution
chi4 Ori	
1 Gem B	
HR 2150	
40 Aur	
nu Ori	
HD 41724/5	
EP Aur	Svechnikov, M.A., Kuznetsova, E.F. 1990, Katalog Priblizhennykh Fotometricheskikh i Absolyutnykh Elementov Zatmennykh Peremennykh Zvez
WW Gem	Svechnikov, M.A., Kuznetsova, E.F. 1990, Katalog Priblizhennykh Fotometricheskikh i Absolyutnykh Elementov Zatmennykh Peremennykh Zvez
xi Ori	
69 Ori	
LB 1800	Buckley, D.A.H., Sullivan, D.J., Remillard, R.A., Tuohy, I.R., Clark, M. 1990, ApJ, 355, 617
del Pic	Eaton, J.A., Wu, C.-C. 1983, PASP, 95, 319
SS Aur	
NSV 02872	
HR 2214	
KR Aur	
CZ Ori	
HL Aur	Svechnikov, M.A., Kuznetsova, E.F. 1990, Katalog Priblizhennykh Fotometricheskikh i Absolyutnykh Elementov Zatmennykh Peremennykh Zvez
LT Gem	(Hill, G. 1967, ApJ Suppl., 14, 301)
HR 2266	
7 Mon	
45 Aur	
zet CMa	
V1028 Ori	(Turner, D.G. 1976, IBVS 1166)
PX Car	Wolfschmidt, G. 1981, Mitt. AG, 52, 169
V616 Mon	Haswell, C.A. 1991, paper presented at the San Diego Workshop on Cataclysmic Variables, San Diego, California
del Col	
IM Mon	Cester, B., et al. 1978, AAp Suppl., 33, 91
eps Mon A	
RR Lyn	Kondo, M. 1976, Ann. Tokyo Obs., (2), 16, 1
AH Aur	Svechnikov, M.A., Kuznetsova, E.F. 1990, Katalog Priblizhennykh Fotometricheskikh i Absolyutnykh Elementov Zatmennykh Peremennykh Zvez
OU Gem	
BZ Cam	
HR 2370	
WW Aur	Cester, B., et al. 1978, AAp Suppl., 33, 91

Name	Photometric solution
V578 Mon	Svechnikov, M.A., Kuznetsova, E.F. 1990, Katalog Priblizhennykh Fotometricheskikh i Absolyutnykh Elementov Zatmennykh Peremennykh Zvez
SV Cam	Zeilik, M., De Blasi, C., Rhodes, M., Budding, E. 1988, ApJ, 332, 293
HR 2410	
NS Mon	Svechnikov, M.A., Kuznetsova, E.F. 1990, Katalog Priblizhennykh Fotometricheskikh i Absolyutnykh Elementov Zatmennykh Peremennykh Zvez
CW Mon	Szkody, P., Mateo, M. 1986, AJ, 92, 483
V649 Mon	(Waelkens, C., Rufener, F. 1983, AAp, 121, 45)
V640 Mon	Rudy, R.J., Herman, L.C. 1978, PASP, 90, 163
gam Gem	Kamper, K., Beardsley, W.R. 1987, AJ, 94, 1302
RR Pic	Haefner, R., Metz, R. 1982, AstrAp, 109, 171
HR 2439	
V641 Mon	Koch, R.H., et al. 1978, ApJ, 222, 574
V684 Mon	(Koch, R.H., Bradstreet, D.H., Hrivnak, B.J., Pfeiffer, R.J., Perry, P.M. 1986, AJ, 91, 590)
BT Mon	(Robinson, E.L., Nather, R.E., Kepler, S.O. 1982, ApJ, 254, 646)
AW Cam	Russo, G., Milano, L. 1983, AAp Suppl., 52, 311
HL CMa	
V505 Mon	(Cechol, D., Kucera, A. 1981, IBVS 1998)
DD Mon	Yamasaki, A., Okazaki, Y., Liu, Q., Yang, Y., Zhang, Z., Zhang, Y. 1990, AJ, 99, 1218
16 Mon	
IR Gem	
HD 49798	
EZ CMa	Drissen, L., Robert, C., Lamontagne, R., Moffat, A.F.J., St. Louis, N., van Weeren, N., van Genderen, A.M. 1989, ApJ, 343, 426
HR 2577	
HI Mon	Svechnikov, M.A., Kuznetsova, E.F. 1990, Katalog Priblizhennykh Fotometricheskikh i Absolyutnykh Elementov Zatmennykh Peremennykh Zvez
EQ Mon	
PSR 0655+64	Lyne, A.G. 1984, Nature, 310, 300
HD 52533	

Name	M1	M2	A	R1	R2	T1	T2	log L1	log L2	Distance	U	V	W
chi4 Ori	3.83 s	3.44 s								289. s			
1 Gem B	2.63 s	1.39 pi								39.0 pis			
HR 2150													
40 Aur	1.69 s	1.39 s								60.5 s			
nu Ori	6.92 s												
HD 41724/5													
EP Aur													
WW Gem													
xi Ori	7.59 s	1.94 pi								219. s			
69 Ori													
LB 1800													
del Pic	17.01	8.99											
SS Aur	1.57 w	0.54 p											
NSV 02872	0.71 p	0.28 p								173. p			
HR 2214	4.00 se	3.17								491. s			
KR Aur	0.69 w	0.49 p								200. k			
CZ Ori	0.89 p	0.57 p											
HL Aur													
LT Gem	14.61 s'	5.87 phi								1410. phi			
HR 2266													
7 Mon													
45 Aur	1.51 s	0.55 pi								44.7 spi			
zet CMa													
V1028 Ori													
PX Car	1.59	0.83											
V616 Mon	0.55	5.74											
del Col													
IM Mon	7.72	5.14								354. phi			
eps Mon A													
RR Lyn	1.89	1.50								87.2 phi			
AH Aur													
OU Gem	0.79 s	0.66								15.9 pi			
BZ Cam													
HR 2370													
WW Aur	1.98	1.80								104. phi			

Name	M1	M2	A	R1	R2	T1	T2	log L1	log L2	Distance	U	V	W
V578 Mon	7.22	7.22											
SV Cam	0.99 s												
HR 2410	6.92 s	4.38 pi								414. s			
NS Mon													
CW Mon	0.89 p	0.53 p								315. k			
V649 Mon													
V640 Mon	43.32	51.01											
gam Gem													
RR Pic	1.01	0.41 p								480. n			
HR 2439	1.29 s	1.08								58.4 s			
V641 Mon	7.66	5.59								1420. phi			
V684 Mon	6.62	4.98								1480. phi			
BT Mon										1870. n			
AW Cam	2.24 s	1.15								288. phi			
HL CMa	1.91 w	0.65 p								169. k			
V505 Mon	68.25	36.55								9340. phi			
DD Mon	0.37	0.26											
16 Mon													
IR Gem	0.97 w	0.146 p											
HD 49798	0.65 s	0.90 pi								569. ome			
EZ CMa	15.84 s									1800. i			
HR 2577													
HI Mon	12.88 s												
EQ Mon	0.53 p	0.154 p								380. p			
PSR 0655+64													
HD 52533	23.99 s	2.98 pi								1980. s			

Name	Notes
chi4 Ori	del m=0.74 V
1 Gem B	Vis. orb: P=13.35y, T=1982.28, a=0.198", e=0.361, i=58.2°, ome=198.2°, Ome=174.9° (Heintz, W.D. 1986, AAp Sup, 65, 411)
HR 2150	
40 Aur	del m=0.39
nu Ori	
HD 41724/5	
EP Aur	
WW Gem	
xi Ori	
69 Ori	
LB 1800	
del Pic	del m=2.3; (B-V)l=-0.27
SS Aur	Twd<31600K
NSV 02872	UG:
HR 2214	Not clear which compt of VB is SB
KR Aur	*
CZ Ori	
HL Aur	
LT Gem	*P dbld from GCVS4
HR 2266	
7 Mon	
45 Aur	
zet CMa	
V1028 Ori	P=6d?
PX Car	
V616 Mon	XND+ELL:; No X-ray eclipses
del Col	
IM Mon	del m=1.31
eps Mon A	
RR Lyn	
AH Aur	
OU Gem	*Prot=7.36d; RS CVn
BZ Cam	
HR 2370	P=1.2291509 also poss.
WW Aur	del m=0.25

Name	Notes
V578 Mon	
SV Cam	del m=3.12 V; *Pphtm~Porb; *lameff=0.493 mum
HR 2410	
NS Mon	
CW Mon	UGSS
V649 Mon	Ell
V640 Mon	del m(lam1600)=0.69; del mV=0.76
gam Gem	Ome=256.5; alp=0.0685"; Ang. diam. 1=0.00139"+/-0.00009" (Hanbury Brown, R., Davis, J., Allen, L.R. 1974, MN, 167, 121)
RR Pic	NB
HR 2439	
V641 Mon	
V684 Mon	del m=0.29
BT Mon	
AW Cam	del m=0.28
HL CMa	
V505 Mon	del m=1.4:
DD Mon	
16 Mon	
IR Gem	
HD 49798	T1=47500K; log g1=4.25+/-0.2
EZ CMa	
HR 2577	
HI Mon	B1V+(B1V), i=84.8, r1=0.322,r2=0.214, l1=0.699 p (lc: Wachmann, A.A. 1968, Astr. Abh. Hamburger Sternw., 7, 381)
EQ Mon	UGSU; Not a CV? (Vogt & Bateson 1982, AAp Suppl, 48, 383)
PSR 0655+64	DM=8.774; V-R=+0.1; *i=62 equally possible
HD 52533	

Name	RA(1950)	μ(RA)	Dec(1950)	μ(Dec)	Pos Ref	FK4	SRS	AGK3	SAO	GC	l	b
FZ CMa	07 00 21.896	-0.05	-11 22 45.98	+0.1	SAO				152277		224.41	-02.73
FM CMa	07 03 22.907	-0.10	-12 44 04.08	+0.5	SAO				152360		225.95	-02.70
AO Mon	07 04 07.75		-04 32 42.7		AC						218.78	+01.26
FN CMa	07 04 19.804	-0.09	-11 12 55.96	-0.6	Per70		41533		152394	9389	224.71	-01.79
BM Mon	07 06 10.79		+00 46 35.9		AC						214.29	+04.17
NSV 03432	07 07 28.18		+02 59 53.8		AC						212.44	+05.48
FF CMa	07 08 34.76		-30 34 46.1								242.51	-09.72
VW CMa	07 10 22.20		-25 24 51.8		AC						238.03	-07.06
X0710-360	07 10 45.4		-36 00 31.								247.68	-11.68
GG CMa	07 11 51.659	-0.15	-30 59 48.41	-0.4	SAO				197719	9598	243.20	-09.28
HD 56310	07 13 40.976	-0.26	-16 08 46.98	+2.5	Per70		7604		152630	9643	230.13	-02.08
GZ Pup	07 15 47.		-40 02 12.		GCVS						251.84	-12.52
UW CMa	07 16 35.390	-0.05	-24 27 58.28	-0.3	Per70		41590		173444	9734	237.82	-05.37
tau CMa	07 16 38.031	-0.07	-24 51 42.75	+0.7	Per70		41591		173446	9736	238.18	-05.54
NW Pup	07 16 51.450	-0.07	-36 39 00.62	0.0	Per70		41595		197837	9746	248.82	-10.86
R CMa	07 17 12.341	+1.10	-16 18 00.39	-13.2	Per70		41597		152724	9758	230.67	-01.41
19 Lyn A	07 18 47.691	-0.025	+55 22 40.73	-3.08	FK4	280			026311	9800	161.96	+26.37
HQ CMa	07 18 53.056	+0.06	-26 52 08.01	+1.6	Per70		41602		173522	9805	240.20	-06.03
AW Gem	07 19 32.950		+28 36 03.87								189.89	+18.90
AP Aur	07 20 30.19		+36 32 45.1		PI77						182.01	+21.82
bet CMi	07 24 26.357	-0.365	+08 23 29.89	-4.04	FK4	285	30285		115456	9947	209.52	+11.68
63 Gem	07 24 46.351	-0.38	+21 32 56.88	-12.5	Per70		41626	+21°0816	079403	9957	197.23	+17.30
HR 2873	07 27 09.049	-0.14	-31 21 06.77	0.0	Per70		41647		198042	10029	245.04	-06.54
HD 59543	07 27 35.932	+0.02	-13 53 00.91	+5.2	SAO				152963	10038	229.74	+01.95
SV CMi	07 28 27.		+06 05 00.		GCVS						212.08	+11.54
BG CMi	07 28 44.45		+10 02 47.3								208.48	+13.36
KQ Mon	07 28 58.61		-10 15 24.5		AC						226.72	+04.00
MQ Pup	07 29 33.686	+0.02	-37 53 42.19	+0.4	SAO				198085		251.11	-09.17
PS Pup	07 29 53.564	+0.04	-35 46 49.34	+0.5	SAO				198093	10094	249.25	-08.12
NSV 03633	07 30 07.		+48 07		NSV						170.30	+26.64
TY Pup	07 30 35.866	-0.11	-20 41 02.30	+5.4	SAO				173970		236.04	-00.73
alp1 Gem	07 31 24.635	-1.343	+31 59 57.61	-10.25	FK4	287		+31°0789	060198	10120	187.44	+22.48
alp2 Gem	07 31 24.673	-1.343	+32 00 00.53	-10.25	FK4	287		+31°0789	060198	10120	187.44	+22.48
YY Gem	07 31 26.235	-1.65	+31 58 50.36	-11.2	AGK3			+31°0790	060199	10121	187.46	+22.47
HI Pup	07 32 17.93		-50 00 49.0		AC						262.38	-14.21

Name	RA(1950)	μ(RA)	Dec(1950)	μ(Dec)	Pos Ref	FK4	SRS	AGK3	SAO	GC	l	b
V344 Pup	07 34 40.891	+0.43	-44 50 40.50	-1.3	SAO				218831	10212	257.83	-11.53
WY Lyn	07 35 14.		+40 16 42.		GCVS						179.03	+25.67
PU Pup	07 36 13.100	-0.06	-25 15 00.39	-1.0	Per70		41685		174175	10266	240.65	-01.84
AK CMi	07 37 37.		+04 00 00.		GCVS						215.04	+12.63
W Vol	07 37 48.94		-69 25 39.5		LG90						281.36	-21.40
HD 61296	07 38 07.115	-0.36	-38 25 54.68	0.0	SAO				198272	10330	252.39	-07.94
UZ Pup	07 39 26.765	+0.15	-13 16 30.71	+5.0	SAO				153259		230.62	+04.75
HR 2981	07 39 30.268	-0.21	-38 24 56.59	+1.1	Per70		41706		198298	10355	252.51	-07.69
sig Gem	07 40 11.374	+0.53	+29 00 22.23	-23.5	Per70		41707	+29°0890	079638	10373	191.19	+23.27
HD 62910	07 43 02.02		-31 47 11.5								247.07	-03.79
PV Pup	07 43 10.625	-0.15	-14 33 48.31	-2.2	SAO				153362	10453	232.19	+04.91
HD 63099	07 43 57.58		-34 12 25.9		AC						249.27	-04.84
UY Pup	07 44 10.		-12 49 36.		GCVS						230.80	+05.98
HD 63251	07 44 31.772	+0.12	-37 46 25.62	+2.5	SAO				198419	10490	252.44	-06.52
HR 3037	07 46 00.808	-0.082	-46 29 00.76	+0.37	FK4	1203	31203		219000	10533	260.25	-10.56
BV Pup	07 46 57.45		-23 26 25.2		L85						240.31	+01.18
KY Pup	07 50 03.54		-26 36 33.2		AC						243.40	+00.15
NSV 03775	07 50 17.		-10 35		NSV						229.60	+08.40
TU Mon	07 50 49.059	-0.16	-02 54 40.73	-0.7	SAO				135216		222.87	+12.29
QZ Pup	07 50 52.396	-0.09	-38 43 56.79	-0.8	Per70		41756		198545	10661	253.90	-05.93
XZ CMi	07 51 29.		+03 46 48.		GCVS						216.88	+15.60
U Gem	07 52 07.807	-0.15	+22 08 04.61	-3.9	(BFW87)						199.22	+23.39
BX Pup	07 52 09.		-24 11 42.		GCVS						241.57	+01.81
HD 65041	07 55 05.688	-0.15	+43 38 23.87	-0.6	AGK3			+43°0811	042099		176.26	+30.02
V Pup	07 56 48.169	-0.20	-49 06 30.34	+0.4	Per70		41777		219226	10802	263.48	-10.28
V645 Mon	07 58 40.698	+0.420	-01 15 08.75	-7.63	FK4Sup	2620	41788	-1°1162	135380	10870	222.35	+14.81
V635 Mon	07 59 19.609	-0.36	-08 27 13.65	-0.8	SAO				135392	10884	228.87	+11.40

Name	Bayer	Flmstd	HR	HD	BD	CoD	CPD	Var	Other
FZ CMa				52942	-11°1755			FZ CMa	BV 656
FM CMa				53756	-12°1777			FM CMa	LSS 155
AO Mon					-4°1822			AO Mon	46.1931
FN CMa			2678	53974	-11°1790			FN CMa	119G CMa; LSS 167
BM Mon								BM Mon	90.1933; P 432
NSV 03432									CSV 977; NSV 03432
FF CMa				55173		-30°04030	-30°01551	FF CMa	BV 610
VW CMa						-25°04197	-25°02074	VW CMa	53.1931; P 444
X0710-360									X0710-360 (2A,1H,(1M),4U?)
GG CMa			2741	55958		-30°04143	-30°01579	GG CMa	137G CMa; CSV 6567
HD 56310				56310	-15°1732				
GZ Pup							-39°01342	GZ Pup	CSV 1014; S 4876
UW CMa		29 CMa	2781	57060		-24°05173	-24°02210	UW CMa	150G CMa; LSS 306
tau CMa	tau CMa	30 CMa	2782	57061		-24°05176	-24°02216		d CMa; 20H CMa; 151G CMa; CSV 6576; N
NW Pup	v2 Pup		2790	57219		-36°03519	-36°01230	NW Pup	84G Pup
R CMa			2788	57167	-16°1898			R CMa	155G CMa; INCA 2603
19 Lyn A		19 Lyn A	2784	57103	+55°1192				9H Lyn
HQ CMa			2800	57593		-26°04223	-26°02013	HQ CMa	158G CMa
AW Gem								AW Gem	8.1933
AP Aur								AP Aur	
bet CMi	bet CMi	3 CMi	2845	58715	+8°1774			bet CMi	2H CMi; 18G CMi; CSV 6586; MWC 178
63 Gem	p Gem	63 Gem	2846	58728	+21°1602				23H Gem
HR 2873	(k1 CMa)		2873	59550		-31°04593	-31°01588		
HD 59543				59543	-13°2051				
SV CMi								SV CMi	285.1928
BG CMi								BG CMi	X0728+100 (3A)
KQ Mon								KQ Mon	119.1943; CSV 1069; S 3446
MQ Pup				60099		-37°03645	-37°01313	MQ Pup	BV 805
PS Pup			2889	60168		-35°03652	-35°01292	PS Pup	103G Pup
NSV 03633									NSV 03633; SVS 1740
TY Pup				60265	-20°2009		-20°02574	TY Pup	HV 4454
alp1 Gem	alp1 Gem	66 Gem B	2890	60178	+32°1581				Castor B; 24H Gem B; AFGL 1144B; Gl 278
alp2 Gem	alp2 Gem	66 Gem A	2891	60179	+32°1581				Castor A; 24H Gem A; AFGL 1144A; Gl 278
YY Gem					+32°1582			YY Gem	Castor C; GL 278C; X0731+319 (1ES,1H?)
HI Pup						-49°02909	-49°01276	HI Pup	CSV 1088; S 4884

Name	Bayer	Flmstd	HR	HD	BD	CoD	CPD	Var	Other
V344 Pup				61245		-44°03573	-44°01710	V344 Pup	INCA 2659
WY Lyn								WY Lyn	RR VI-39
PU Pup	m Pup		2944	61429		-25°04828	-25°02623	PU Pup	128G Pup
AK CMi					+4°1778			AK CMi	310.1934; CSV 1102; P 3052
W Vol						-69°00461	-69°00756	W Vol	23.1909; HV 3189
HD 61296				61926		-38°03538	-38°01492		
UZ Pup					-13°2170			UZ Pup	64.1929
HR 2981			2981	62226		-38°03556	-38°01524		150G Pup; NGC 2451-203
sig Gem	sig Gem	75 Gem	2973	62044	+29°1590			sig Gem	29H Gem; AFGL 1174; CSV 100890; INCA
HD 62910				62910		-31°05004	-31°01862		He 3-67; LSS 731; MR 9; WR 8
PV Pup		2 Pup B	3009	62863	-14°2193			PV Pup	166G Pup B
HD 63099				63099		-34°03879	-34°01643		He 3-73; LSS 753; MR 10; WR 9
UY Pup								UY Pup	153.1929
HD 63251				63251		-37°03890	-37°01592		NGC 2451-268
HR 3037			3037	63578		-46°03435	-46°01770		187G Pup
BV Pup								BV Pup	661.1935; P 3071
KY Pup						-26°05111	-26°02694	KY Pup	CSV 1163; S 4101
NSV 03775									CSV 1162; NSV 03775; S 4082
TU Mon					-2°2331			TU Mon	HV 3567
QZ Pup	b Pup		3084	64503		-38°03769	-38°01703	QZ Pup	214G Pup; NSV 03789
XZ CMi					+4°1850			XZ CMi	318.1934; P 3077
U Gem				64511	+22°1807			U Gem	X0752+221 (H)
BX Pup								BX Pup	
HD 65041				65041	+43°1754				
V Pup			3129	65818		-48°03349	-48°01373	V Pup	233G Pup
V645 Mon		28 Mon	3141	65953	-0°1882			V645 Mon	17H Mon; 159G Mon; AFGL 1216; IRC 0016
V635 Mon				66094/5	-8°2186			V635 Mon	BV 1594

Name	Sp1	Sp2	T-JD 2400000	P	e	omel	V0	K1	K2	v1 sin i	v2 sin i
FZ CMa	B2.5IV-Ve	B2.5IV-V	41743.5867	1.2730375	0	-	+33.	215	217	216	
FM CMa	B1V	(B1V)		2.7888	0	-	+19.1	(81:)			
AO Mon	B3(V)	B5(V)	40588.3272	1.884660	0.0	-	+15.	185	195		
FN CMa	B0.5IV			>64.						153	
BM Mon	B1V:	(B9)	27455.398	1.2449426							
NSV 03432				[0.108]							
FF CMa	B2V	B2V	28847.465	1.213375							
VW CMa	B3IV		27924.229	0.720831							
X0710-360	sdBe		47210.12091	0.1018401	0	-	+45.	206			
GG CMa	B2IV	[M0V]		>~1.?	0	-	+27.8	(11.9)			
HD 56310	B1.5V	[B8V]	28148.438	2.770354	0.21	143.53	+24.4	62.2		-	
GZ Pup	[G4]	(F9)	34398.437	0.320274							
UW CMa	O7Ia:fp	O8(Ia)	17237.784	4.393411	0.118	45.4	+12.5	224.5	185	136	
tau CMa	O9Ib	[O9V]	25206.5	154.90	0.30	107.7	+43.	49.5		112	
NW Pup	B2IVne	[K5V]	40601.50	~1.0						124	
R CMa	F2V	(G8IV-V)	30436.8304	1.13594197	0.049	173.9	+37.19	27.78	186	98	
19 Lyn A	B8V [B5V]	(B9V)	19031.632	2.25960	0.076	126.1	+4.2	106.4	199.1	80	
HQ CMa	B2.5V		44629.7797	24.6033							
AW Gem				0.07609:							
AP Aur	A2		42443.609	0.5693125							
bet CMi	B8Ve		45133.4	218.498	0.48	235	+17.5	22.4		276	
63 Gem	F5V	F5V	23429.68	1.9326797	0.03	42	+22.8	96.2	115.9	38	
HR 2873	B2V			2.75							
HD 59543	B2V	[B8V]	28141.544	17.911	0.52	214.77	+4.7	45.6			
SV CMi				(0.254)							
BG CMi	sdBe		46165.774	0.13474853	0	-	-44.8	40.5			
KQ Mon											
MQ Pup	B7V		44234.5649	1.4685665							
PS Pup	B8V	[G8V]		1.3422							
NSV 03633			41059.347	0.242738							
TY Pup	F3V	(F4-5V)	34412.106	0.819235	0	-	+20.	49			
alp1 Gem	A1/6/5Vm	[M2V]	27501.703	2.928315	0.002	94.696	-1.16	31.880		30	
alp2 Gem	A1V	[M4V]	27543.938	9.12180	0.4992	266.382	+5.21	12.904		14	
YY Gem	M1V:e	dM1e	24595.8172	0.81428254	0	-	+0.91	121.04	118.98	40.*	
HI Pup			34344.548	0.432651							

Name	Sp1	Sp2	T-JD 2400000	P	e	omel	V0	K1	K2	v1 sin i	v2 sin i
V344 Pup	K1III		44180.586	11.761	0.01	165.2	+1.6	37.9			
WY Lyn			37646.984	0.227574							
PU Pup	B8IV		43100.000	2.57895	0	-	+40.	-20		293:	
AK CMi	A-F [A8]	(G1IV)	43101.672	0.5658975							
W Vol	K/M		16846.411	2.758361							
HD 61296	B8V		43099.457	3.2707	0	-	-	57.5			
UZ Pup	A6(IV-V)	A6(V)	44613.6991	0.79485112	0	-	+16.0	138.9	171.2	-	
HR 2981	B5V			8.600	0	-	+29.	87.5	72.5	100	
sig Gem	K1III	[F1V]	47221.2	19.60447	0.0210	160	+43.78	34.79		27.*	
HD 62910	WN6	WC4	44649.300	38.4?	0	-	+135.:	23	72		
PV Pup	A8V	A8V	43119.98645	1.660728	0.0503 phi	149.7 phi	+29.8	130.0	130.9		
HD 63099	WC5	O7I:	43508.7	14.305	0.0	-	+14.	197	56		
UY Pup				(0.221)							
HD 63251	B7III		43098.381	2.5248	0	-	-	61.6			
HR 3037	B1.5IV			4.141	0	-	+55.	75		154	
BV Pup			47141.361?	0.225?							
KY Pup	B0:Vpne	(B0)	28600.290	0.8494608							
NSV 03775				[0.108]							
TU Mon	B5V	A5III:	34068.3545	5.0490291	0.2	115	+20.	55	260:		
QZ Pup	B2.5V	[B9V]	43229.017	1.11203	0	-	+29.5	71		187	
XZ CMi	F0V		42444.4017	0.5788095							
U Gem	sdBe	M5V	37638.82325	0.1769061911	0.0	-	+43.	137	298.4	871 Sh; 850 e; 637	
BX Pup				(0.246)							
HD 65041	B2V	[F1V]		2.826	0.30	320	-13.	34			
V Pup	B1Vp	B3IV:	45367.60633	1.4544859	0	-	+13.9	178.8	342.5	275	
V645 Mon	K4III		43100.000	0.207878						<19:	
V635 Mon	A2	F5	29658.375	1.807805							

Name	Spectroscopic orbit
FZ CMa	Moffat, A.F.J., et al. 1983, AAp, 120, 278
FM CMa	(Neubauer, F.J. 1943, ApJ, 97, 300)
AO Mon	Struve, O. 1945, ApJ, 102, 74
FN CMa	(van Hoof, A. 1973, Meded. K. Acad. Weten., Lett., Sch. Kunst. België, Kl. Weten., 35, nr. 4)
BM Mon	
NSV 03432	
FF CMa	
VW CMa	
X0710-360	Tuohy, I.R., Remillard, R.A., Brissenden, R.J.V., Bradt, H.V. 1990, ApJ, 359, 204
GG CMa	(Neubauer, F.J. 1929, Lick Obs. Bull., 15, 46)
HD 56310	Neubauer, F.J., Roosenraad, D. 1940, Lick Bull., 19, 95
GZ Pup	
UW CMa	Stickland, D.J. 1989, Obs., 109, 74; Struve, O., et al. 1958, ApJ, 128, 328
tau CMa	Struve, O., Kraft, R.P. 1954, ApJ, 119, 299
NW Pup	(Campbell, W.W., Moore, J.H. 1928, Pub. Lick Obs., 16, 1; van Hoof 1973, Meded. K. Acad. Weten., Lett., Sch. Kunst. België, Kl. Weten., 3
R CMa	Radhakrishnan, K.R., Sarma, M.K.B., Abhyankar, K.D. 1984, ApSpSci, 99, 229; Tomkin, J. 1985, ApJ, 297, 250
19 Lyn A	Pearce, J.A. 1932, Pub. DAO, 6, 49
HQ CMa	
AW Gem	
AP Aur	
bet CMi	Jarad, M.M., Hilditch, R.W., Skillen, I. 1989, MN, 238, 1085
63 Gem	Abt, H.A., Levy, S.G. 1976, ApJ Suppl., 30, 273
HR 2873	(van Hoof, A. 1973, Meded. K. Acad. Weten., Lett., Sch. Kunst. België, Kl. Weten., 35, nr. 4)
HD 59543	Neubauer, F.J., Roosenraad, D. 1940, Lick Bull., 19, 97
SV CMi	
BG CMi	Mateo, M. 1985, Proc. Ninth N. Am. Wkshp. Cataclysmic Variables, ed. P. Szkody (Seattle: U. Wash.), p. 80
KQ Mon	
MQ Pup	
PS Pup	
NSV 03633	
TY Pup	van Houten, C.J. 1971, AAp, 14, 487
alp1 Gem	Vinter-Hansen, J.M. 1940, Lick Bull., 19, 89
alp2 Gem	Vinter-Hansen, J.M. 1940, Lick Bull., 19, 89
YY Gem	Bopp, B.W. 1974, ApJ, 193, 389
HI Pup	

Name	Spectroscopic orbit
V344 Pup	Balona, L. 1987, SSAO Circ., 11, 1
WY Lyn	
PU Pup	(Campbell, W.W., Moore, J.H. 1928, Pub. Lick Obs., 16, 1)
AK CMi	
W Vol	
HD 61296	Gieseking, F. 1981, Astr Ap Suppl., 43, 33
UZ Pup	(Struve, O. 1945, ApJ, 102, 74)
HR 2981	van Hoof, A. 1973, Meded. K. Acad. Weten., Lett., Sch. Kunst. België, Kl. Weten., 35, nr. 4
sig Gem	Bopp, B.W., Dempsey, R.C. 1989, PASP, 101, 516
HD 62910	Niemela, V.S. 1991, IAU Symp. 143, 201
PV Pup	Vaz, L.P.R., Andersen, J. 1984, AAp, 132, 219
HD 63099	Niemela, V.S., Massey, P., Conti, P.S. 1984, PASP, 96, 549
UY Pup	
HD 63251	Gieseking, F. 1981, Astr Ap Suppl., 43, 33
HR 3037	van Hoof, A. 1973, Meded. K. Acad. Weten., Lett., Sch. Kunst. België, Kl. Weten., 35, nr. 4
BV Pup	
KY Pup	
NSV 03775	
TU Mon	Deutsch, A.J. 1945, ApJ, 102, 433; Popper, D.M. 1967, PASP, 79, 493
QZ Pup	Haefner, R., Drechsel, H. 1986, ApSpSci, 121, 205
XZ CMi	
U Gem	Stover, R.J. 1981, ApJ, 248, 684; Friend, M.J., Martin, J.S., Smith, R.C., Jones, D.H.P. 1990, MN, 246, 637
BX Pup	
HD 65041	Blaauw, A., van Albada, T.S. 1963, ApJ, 137, 791
V Pup	Andersen, J., Clausen, J.V., Giménez, A., Nordström, B. 1983, AAp, 128, 17
V645 Mon	
V635 Mon	

Name	V	B-V	U-B	R-I	E(B-V)	par	Cluster	ADS	Vis Binary	Companions
FZ CMa	8.107	+0.16	-0.62		0.42		CMa OB1			9.031V, 0.0", P=536.6d
FM CMa	7.28	-0.08	-0.78				CMa OB1			
AO Mon	9.6				0.24 m		CMa OB1?			
FN CMa	5.39	+0.05	-0.85				<CMa OB1>	5795 A	bet 328 A; Sig 1026	del m=1.2, 0.561"
BM Mon	12.18 p									
NSV 03432	10.6 p				0.04 m					
FF CMa	7.43	-0.19	-0.78		0.08		Cr 132			
VW CMa	9.45	+0.02								
X0710-360	15.2									
GG CMa	6.60	-0.17	-0.76		0.10		Cr 132a			
HD 56310	6.86	-0.17	-0.89		0.03		CMa OB1?			
GZ Pup	11.7 v									
UW CMa	4.84	-0.15	-1.01	-0.13	0.18		NGC 2362			
tau CMa	4.40	-0.15	-0.99	-0.18	0.18		NGC 2362	5977 A	phi 313 A; h 3948 A	10v, 8"; 8.22V, B2V, 85"
NW Pup	5.11	-0.16	-0.66	-0.21			Cr 135		Jc 10 B	
R CMa	5.70	+0.35	+0.04		0.00	0.040				
19 Lyn A	5.45				0.06 m	0.011		6012 A	Sig 1062 A	6.53H, B9V, 15.1"
HQ CMa	6.01	-0.17	-0.70				Sco-Cen	6015 A	lam 76 A	13.2v, 8.2"
AW Gem	13.1 v				0.07 m					
AP Aur	10.9 p									
bet CMi	2.90	-0.09	-0.28	-0.06		0.019			bet pm A	11.0v, 98.5"; 10.9v, 124.9"; 10.7v, 1
63 Gem	5.22	+0.39	-0.04		0.00	0.041		6089 A	S,h 368 A	6.4v, 0.001"; 7.5v, 0.047"; 9.5v, 43"
HR 2873	5.77	-0.19	-0.75							
HD 59543	7.19	-0.07	-0.66		0.19					
SV CMi	13.0 p	+0.11	-0.64		0.00					
BG CMi	15.0	-0.04:	-0.92:		0.00 u					
KQ Mon	13.06	+0.08	-0.72		0.08 u					
MQ Pup	9.03									
PS Pup	6.62	-0.08	-0.36		0.00				Jsp 167 A	
NSV 03633	10.98									
TY Pup	8.40	+0.42								
alp1 Gem	1.58 D	+0.04	+0.02		0.00	0.067; D0.052		6175 B	Sig 1110 B (orb)	1.97:, A1V, 6.295"
alp2 Gem	1.59 D	+0.03	+0.01	-0.01	0.00	0.067; D0.052		6175 A	Sig 1110 A (orb)	2.92, A2Vm, 6.295"
YY Gem	9.07	+1.35	+1.04	+1.06		0.068; D0.052		6175 C	Sig 1110 C	WB with 60178, 60179
HI Pup	10.34	+0.60					Cr 173?			

Name	V	B-V	U-B	R-I	E(B-V)	par	Cluster	ADS	Vis Binary	Companions
V344 Pup	6.94	+1.05	+0.81	+0.51C		0.005				
WY Lyn	15.99 p									
PU Pup	4.70	-0.11	-0.35	-0.09				6246 A	B 731 A	5.7, 0.2"?
AK CMi	10.1 p									
W Vol	10.90 p									
HD 61296	7.96	-0.05	-0.50				NGC 2451			
UZ Pup	9.35									
HR 2981	5.42	-0.15	-0.56				<NGC 2451>			
sig Gem	4.28	+1.122	+0.937	+0.58		0.0169			bet pm A	10.8, 182.2"
HD 62910	10.54	+0.44	+0.07		0.82		Anon Pup a			
PV Pup	6.894				0.03 m			6348 B	Sig 1138 B	6.07V, A2V, 16.8"; 10.5, 100.4"
HD 63099	11.01	+0.78	+0.39		1.25		Anon Pup b			
UY Pup	14.06	+0.09	-0.78		0.03					
HD 63251	7.71	+0.02	-0.33				NGC 2451			
HR 3037	5.23	-0.14	-0.85				<Cr 173>			
BV Pup	13.12				0.0 u					
KY Pup	11.55	+0.01	-0.81				<Pup OB1>			
NSV 03775	13.8 p				0.10 m					
TU Mon	9.34	-0.06	-0.67		0.08					
QZ Pup	4.49	-0.19	-0.69	-0.16	0.04	0.012	(NGC 2477)			
XZ CMi	9.7									
U Gem	9.58	+0.01	-0.84		0.05 u	0.007				
BX Pup	13.79	0.00	-0.79		0.04		NGC 2482			
HD 65041	7.33	-0.18	-0.74		0.10					
V Pup	4.345	-0.17	-0.96		0.08		Cr 173		h 4025 A	10.0, 7.0"; 11.0, 19.0"
V645 Mon	4.68	+1.49	+1.78	+0.83		0.009				
V635 Mon	7.6 p							6526 A	A 1580 A	8.9v, 0.1"

Name	Vbl type	Min I	Min II	D	d	i	r1	r2	l1	qph
FZ CMa	EA/DM	8.44	8.44	0.16		87.63	0.2816	0.2816	0.138*	
FM CMa	EB/DM	7.50	7.5:			77.	0.333	0.333	0.50 V	1.0
AO Mon	EA/DM	10.23	10.16	0.17; 0.14		86.2	0.248	0.222	0.665 V	
FN CMa	BCEP									
BM Mon	EA/SD	13.77 p	12.29 p	0.15		75.0	0.500	0.264	0.97 p	0.27
NSV 03432	UG:	11.4 p				57.63 pi				
FF CMa	EB/KE	7.79	7.65			65.8	0.476	0.252	0.706 V	(0.2503)
VW CMa	EB/KE	(0.2 p)	(0.1 p)			59.	0.462	0.295	0.92 p	0.40
X0710-360		16.7		[0.1044]						
GG CMa	ELL+BCEP:					31.90 pi				
HD 56310						48.27 pi				
GZ Pup	EW/KW	12.2 v	12.1 v			74.0	0.415	0.300	0.63 v	0.65
UW CMa	EB/KE:	5.33	5.25			68.71	0.3986	0.4261	0.494 V	(1.173)
tau CMa	-					60.09 pi				
NW Pup	BCEP+ELL:									
R CMa	EA/SD	6.34	5.78	0.15		79.93	0.325	0.219	0.885 bol	
19 Lyn A						74.89 se	0.254 ome		0.74 s	
HQ CMa	EA	6.27	absent?	0.03						
AW Gem	UGSS	18.75				57.63 pi				
AP Aur	EB/KE	11.4 p	11.2 p			82.	0.4505	0.3622	0.594 y	0.600
bet CMi	GCAS									
63 Gem						67.70 s	0.178 ome		0.62 s	
HR 2873										
HD 59543						56.60 pi				
SV CMi	UGZ	16.3 p				57.63 pi				
BG CMi	XBP									
KQ Mon	L									
MQ Pup	EB/SD	10.55	9.39			85.0	0.2820	0.297	0.70 V	0.41
PS Pup	ELL					45.9	0.326	0.104	0.9935 B	
NSV 03633	EW:	(0.5)	(0.5)							
TY Pup	EW/KE	8.89	8.87			67.80	0.515	0.328	0.739 V	0.3258
alp1 Gem						53.80 pi				
alp2 Gem						55.83 pi				
YY Gem	EA/DM+UV	9.56	9.55	0.11	0.004	86.54	0.1706	0.1496	0.580 V	
HI Pup	EW/KW	10.76	10.76:			80.	0.546	0.260	0.184 V	0.18

Name	Vbl type	Min I	Min II	D	d	i	r1	r2	l1	qph
V344 Pup	RS									
WY Lyn	EW:/KW	16.43 p								
PU Pup	EB									
AK CMi	EA/SD	11.5 p	10.3 p	0.30:		70.5	0.248	0.186	0.68 V	0.87
W Vol	EA/AR:	11.80 p	10.99 p	0.17		84.	0.467	0.269	0.92 p	0.29
HD 61296						78.5	0.257	0.271	0.760 p	
UZ Pup	EB/KE	10.34	10.0			84.	0.397	0.357	0.632 V	0.80
HR 2981							0.62 ome			
sig Gem	RS									
HD 62910										
PV Pup	EA/DM	7.322	7.306	0.10; 0.10		83.09	0.1791	0.1740	0.513 y	
HD 63099						92. P				
UY Pup	UG	16.8 p				57.63 pi				
HD 63251										
HR 3037										
BV Pup	UGSS	14.84								
KY Pup	EB/KE	(0.5 p)	(0.5 p)			74.0	0.435	0.320	0.66 p	0.54
NSV 03775	RR/UG	16.0 p				57.63 pi				
TU Mon	EA/SD	11.21	9.54			89.3	0.1840	0.2347	0.930 V	
QZ Pup	ELL					39.57 pi				
XZ CMi	EA	10.42	9.88			77.70	0.3732	0.3044	0.9205 y	0.418
U Gem	UGSS+E			[0.057]		69.7		0.3144	0.77 V*	
BX Pup	UGZ	15.72				57.63 pi				
HD 65041						50.05 pi				
V Pup	EB/SD	4.916	4.821			79.0	0.404	0.321	0.655 y	
V645 Mon	FKCOM									
V635 Mon	EA/DM	8.1 p				75.	0.22	0.30	0.70	0.42

Name	Photometric solution
FZ CMa	Moffat, A.F.J., et al. 1983, AAp, 120, 278
FM CMa	Svechnikov, M.A., Kuznetsova, E.F. 1990, Katalog Priblizhennykh Fotometricheskikh i Absolyutnykh Elementov Zatmennykh Peremennykh Zvez
AO Mon	Giuricin, G., Mardirossian, F., Mezzetti, M. 1980, AAp Suppl., 39, 255
FN CMa	
BM Mon	Svechnikov, M.A., Kuznetsova, E.F. 1990, Katalog Priblizhennykh Fotometricheskikh i Absolyutnykh Elementov Zatmennykh Peremennykh Zvez
NSV 03432	
FF CMa	Knigge, R., Köhler, U. 1969, Veröff. Remeis-Sternw. Bamberg, 8, nr. 83
VW CMa	Svechnikov, M.A., Kuznetsova, E.F. 1990, Katalog Priblizhennykh Fotometricheskikh i Absolyutnykh Elementov Zatmennykh Peremennykh Zvez
X0710-360	(Tuohy, I.R., Remillard, R.A., Brissenden, R.J.V., Bradt, H.V. 1990, ApJ, in press)
GG CMa	(van Hoof, A. 1973, IBVS 807)
HD 56310	
GZ Pup	Svechnikov, M.A., Kuznetsova, E.F. 1990, Katalog Priblizhennykh Fotometricheskikh i Absolyutnykh Elementov Zatmennykh Peremennykh Zvez
UW CMa	Leung, K.-C., Schneider, D.P. 1978, ApJ, 222, 917
tau CMa	
NW Pup	(van Hoof, A. 1973, IBVS 807)
R CMa	Radhakrishnan, K.R., Sarma, M.K.B., Abhyankar, K.D. 1984, ApSpSci, 99, 229
19 Lyn A	
HQ CMa	(Sterken, C., Duerbeck, H.W., Hensberge, H., Manfroid, J., Stahl, O., vander Linden, D. 1985, AAp Sup, 60, 1)
AW Gem	
AP Aur	Zhang, R.-X., Zhang, J.-T., Li, Q.-S., Zhai, D.-S. 1990, Pacific Rim Colloquium on New Frontiers in Binary Star Research
bet CMi	
63 Gem	
HR 2873	
HD 59543	
SV CMi	
BG CMi	
KQ Mon	
MQ Pup	Svechnikov, M.A., Kuznetsova, E.F. 1990, Katalog Priblizhennykh Fotometricheskikh i Absolyutnykh Elementov Zatmennykh Peremennykh Zvez
PS Pup	(Olsen, E.H. 1977, AAp Supp., 29, 313)
NSV 03633	(Lange, G.A., Mandel, O.E. 1971, Astr. Tsirk., No. 637, p. 7)
TY Pup	Maceroni, C., Milano, L., Russo, G. 1982, AAp Suppl., 49, 123
alp1 Gem	
alp2 Gem	
YY Gem	Leung, K.-C., Schneider, D.P. 1978, AJ, 83, 618
HI Pup	Bookmyer, B.B., Kern, J.R. 1988, Critical Observations versus Physical Models of Close Binary Systems, ed. K.C. Leung (New York: Gordon &

Name	Photometric solution
V344 Pup	
WY Lyn	(Kinman, T.D., Mahaffey, C.T., Wirtanen, C.A. 1982, AJ, 87, 314)
PU Pup	Svechnikov, M.A., Kuznetsova, E.F. 1990, Katalog Priblizhennykh Fotometricheskikh i Absolyutnykh Elementov Zatmennykh Peremennykh Zvez
AK CMi	Svechnikov, M.A., Kuznetsova, E.F. 1990, Katalog Priblizhennykh Fotometricheskikh i Absolyutnykh Elementov Zatmennykh Peremennykh Zvez
W Vol	Gaposchkin, S. 1932, Veröff. Univ.-Sternw. Berlin-Babelsberg, 9, pt. V
HD 61296	
UZ Pup	Malasan, H.L., Yamasaki, A., Kitamura, M. 1989, ApSpSci, 153, 269
HR 2981	
sig Gem	
HD 62910	
PV Pup	Vaz, L.P.R., Andersen, J. 1984, AAp, 132, 219
HD 63099	Moffat, A.F.J., Seggewiss, W. 1989, Recent Developments Magellanic Clouds Research (Paris), p. 97
UY Pup	
HD 63251	
HR 3037	
BV Pup	
KY Pup	Svechnikov, M.A., Kuznetsova, E.F. 1990, Katalog Priblizhennykh Fotometricheskikh i Absolyutnykh Elementov Zatmennykh Peremennykh Zvez
NSV 03775	
TU Mon	Cester, B., Fedel, B., Giuricin, G., Mardirossian, F., Pucillo, M. 1977, AAp, 61, 469
QZ Pup	(Haefner, R. 1982, IBVS 2242)
XZ CMi	Terrell, D., Wilson, R.E. 1990, PASP, 102, 646
U Gem	Zhang, E.-H., Robinson, E.L. 1987, ApJ, 321, 813
BX Pup	
HD 65041	
V Pup	Andersen, J., et al. 1983, AAp, 128, 17
V645 Mon	
V635 Mon	Svechnikov, M.A., Kuznetsova, E.F. 1990, Katalog Priblizhennykh Fotometricheskikh i Absolyutnykh Elementov Zatmennykh Peremennykh Zvez

Name	M1	M2	A	R1	R2	T1	T2	log L1	log L2	Distance	U	V	W
FZ CMa	5.36	5.31											
FM CMa										1140. phi			
AO Mon	5.54	5.25											
FN CMa										1360. phi			
BM Mon													
NSV 03432	0.71 p	0.28 p											
FF CMa	11.09 s'	2.78								140. p			
VW CMa										1180. phi			
X0710-360													
GG CMa	10.96 s	0.54 pi											
HD 56310	11.22 s	3.18 pi								757. s			
GZ Pup										889. s			
UW CMa	17.09	20.74											
tau CMa	45.71 s	23.09 pi											
NW Pup	10.96 s									1140. s			
R CMa	1.04	0.156											
19 Lyn A	4.80 s	2.57								38.3 phi			
HQ CMa										186. s			
AW Gem	0.53 p	0.160 p											
AP Aur										319. p			
bet CMi													
63 Gem	1.32 s	1.10 s											
HR 2873										30.2 spi			
HD 59543	9.77 s	3.16 pi											
SV CMi	0.89 p	0.85 p								689. s			
BG CMi										603. p			
KQ Mon													
MQ Pup													
PS Pup	3.02 s	0.92 s											
NSV 03633										169. phi			
TY Pup	0.64	0.21											
alp1 Gem	1.74 s	0.45 pi											
alp2 Gem	2.19 s	0.24 pi								17.7 pi			
YY Gem	0.58	0.59								17.7 pi			
HI Pup													

Name	M1	M2	A	R1	R2	T1	T2	log L1	log L2	Distance	U	V	W
V344 Pup													
WY Lyn													
PU Pup													
AK CMi													
W Vol													
HD 61296													
UZ Pup	1.38	1.12											
HR 2981													
sig Gem													
HD 62910													
PV Pup	1.56	1.55								3470. g			
HD 63099	5.32	18.72								79.1 phi			
UY Pup	0.89 p	0.71 p								5500. g			
HD 63251										902. p			
HR 3037													
BV Pup													
KY Pup													
NSV 03775	0.71 p	0.28 p											
TU Mon	12.70	2.69								535. p			
QZ Pup	8.22 s	2.67 pi								1770. phi			
XZ CMi										205. s			
U Gem	1.26	0.58											
BX Pup	0.89 p	0.82 p											
HD 65041	9.77 s	1.41 pi								842. p			
V Pup	14.83	7.74								803. s			
V645 Mon										383. phi			
V635 Mon													

Name	Notes
FZ CMa	del m=0.123 V; *t3=0.739
FM CMa	
AO Mon	
FN CMa	betC 5.36-5.39 V (0.12377d)
BM Mon	B1V: +(A0II-III), i=86.9, r1=0.1064, r2=0.1353, l1=0.849p (lc: Wachmann, A.A. 1968, Astr. Abh. Hamburger Sternw., 7, 381)
NSV 03432	UG:
FF CMa	
VW CMa	
X0710-360	
GG CMa	betC (6.56-6.61 V); Ell?
HD 56310	
GZ Pup	
UW CMa	del m=1.08
tau CMa	
NW Pup	Ell (amp 0.045 V); betC? (amp 0.03V)
R CMa	del m=3.0
19 Lyn A	del m=1.14
HQ CMa	
AW Gem	UGSS
AP Aur	
bet CMi	
63 Gem	del m=0.53
HR 2873	
HD 59543	
SV CMi	UGZ
BG CMi	
KQ Mon	UX
MQ Pup	
PS Pup	Ell (amp 0.051u, 0.03v,b,y)
NSV 03633	Pe obs -> const
TY Pup	
alp1 Gem	Vis. orb: P=444.945y, T=1960.104, a=6.593", e=0.323, i=114.61°, ome=73.31°, Ome=41.46° (Docobo, J.A., Costa, J.M. 1985, Circ. Inf.
alp2 Gem	Vis. orb: P=444.945y, T=1960.104, a=6.593", e=0.323, i=114.61°, ome=253.31°, Ome=41.46° (Docobo, J.A., Costa, J.M. 1985, Circ. Inf
YY Gem	*Pphtm=0.8143d
HI Pup	

Name	Notes
V344 Pup	RS; *Pphtm=11.47d
WY Lyn	LC asymmetric; doubtful bin.
PU Pup	EW (amp 0.06 V)
AK CMi	Min II - Min I = 0.55p
W Vol	
HD 61296	
UZ Pup	del m=1.3
HR 2981	
sig Gem	*Pphtm=19.410d
HD 62910	K1 from NV lam4604, K2 from CIV lam4441. Secondary gives V0=+65.
PV Pup	
HD 63099	
UY Pup	UG
HD 63251	
HR 3037	
BV Pup	UGSS
KY Pup	EB/KE
NSV 03775	RR/UG
TU Mon	
QZ Pup	Ell (amp 0.050 V)
XZ CMi	
U Gem	*@V=14.70; Twd=30000K
BX Pup	UGZ
HD 65041	
V Pup	del m=0.43; MV=-3.82
V645 Mon	FKCOM (del V=0.020); M-m=0.5p
V635 Mon	

Name	RA(1950)	μ(RA)	Dec(1950)	μ(Dec)	Pos Ref	FK4	SRS	AGK3	SAO	GC	l	b
BH CMi	08 00 00.4		+01 51 38.		BD						219.68	+16.59
PZ Pup	08 00 04.929	-0.23	-35 09 47.95	-0.1	SAO				198721		251.81	-02.49
YY CMi	08 04 02.833	+0.01	+02 04 27.19	-0.1	AGK3			+2°1064	116352		219.98	+17.58
SW Lyn	08 04 16.873	-0.03	+41 56 47.10	-3.6	AGK3			+41°0829	042180		178.54	-31.37
BH Pup	08 06 32.407	-0.05	-41 52 58.70	+0.1	SAO				219459		258.17	-05.04
eps Vol	08 07 46.613	-0.42	-68 28 12.53	+2.1	SAO				250128	11098	281.62	-18.56
YZ Cnc	08 07 52.56		+28 17 32.5		W83						194.08	+28.81
gam1 Vel	08 07 56.860	-0.13	-47 11 49.46	-0.9	Per70		41822		219501	11103	262.81	-07.70
gam2 Vel	08 07 59.465	-0.057	-47 11 18.31	+0.39	FK4	309	30309		219504	11105	262.80	-07.69
SU UMa	08 08 05.401	+0.31	+62 45 22.74	-0.9	(BFW87)						153.96	+33.12
Z Cha	08 08 49.94	-0.57	-76 23 11.6	+7.3	LG90						289.19	-22.10
CP Pup	08 09 52.037		-35 12 04.35								252.93	-00.84
XZ Pup	08 11 22.061	-0.33	-23 48 03.97	+0.5	SAO				175409		243.59	+05.73
WY Hya	08 11 37.		+00 39 30.		GCVS						222.23	+18.57
HR 3244	08 12 02.251	-0.06	-46 50 21.54	-0.8	Per70		41844		219629	11207	262.88	-06.92
VV Pup	08 12 52.22	-0.20	-18 54 02.3	+0.1	(W83)						239.65	+08.71
IX Vel	08 13 49.648	-0.39	-49 04 01.50	-12.6	SAO				219684		264.93	-07.89
AU Pup	08 15 55.185	-0.09	-41 33 05.63	-0.8	SAO				219743		258.86	-03.40
AZ Pup	08 16 24.83		-34 46 25.4								253.32	+00.52
IT Vel	08 16 26.576	-0.24	-46 56 06.24	+0.2	SAO				219751		263.38	-06.34
BP Vel	08 16 27.79		-45 14 01.5		AC						261.97	-05.38
BH Lyn	08 18 53.4		+51 15 01.		PG						167.81	+34.84
HD 70271	08 19 29.490	-0.01	+45 37 04.05	-3.6	AGK3			+45°0757	042321		174.66	+34.59
Z Cam	08 19 39.890	-0.42	+73 16 22.91	-0.2	(BFW87)						141.38	+32.63
PSR 0820+02	08 20 34.03		+02 08 54.3								221.99	+21.25
1 Hya	08 22 05.451	-1.41	-03 35 16.72	-2.6	Per70		41881		135877	11479	227.50	+18.74
AV Pup	08 22 18.		-16 14 36.		GCVS						238.65	+12.05
AW Pup	08 22 40.37		-28 39 56.0		AC						249.07	+05.10
FG Hya	08 24 26.810	+0.05	+03 40 50.83	-6.6	AGK3			+3°1162			221.05	+22.82
NO Pup	08 24 28.064	-0.15	-38 53 43.30	+0.3	SAO				199224	11542	257.62	-00.54
AT Cnc	08 25 15.		+25 31		GCVS						198.50	+31.66
VV Pyx	08 25 19.808	+0.12	-20 40 40.27	-1.8	Per70		8406		175870	11570	242.80	+10.16
HR 3337A	08 25 57.681	-0.07	-02 21 00.72	-2.4	AGK3			-2°0431	135958	11587	226.88	+20.20
LO Hya	08 25 57.689	-0.07	-02 21 00.60	-2.4	AGK3			-2°0431	135958	11587	226.88	+20.20
AS Vel	08 26 27.552	-0.37	-38 48 19.21	-2.0	SAO				199271		257.78	-00.17

Name	RA(1950)	μ(RA)	Dec(1950)	μ(Dec)	Pos Ref	FK4	SRS	AGK3	SAO	GC	l	b
HR 3358	08 27 29.901	-0.16	-47 45 40.37	-0.2	SAO				219985	11630	265.14	-05.28
X Car	08 30 11.601	-0.28	-59 03 25.26	-1.2	SAO				236056		274.68	-11.51
FX Vel	08 30 43.51		-37 48 46.2								257.47	+01.09
HR 3352	08 31 02.587	-0.49	+74 53 49.46	-5.0	AGK3			+74°0217	006592	11730	139.27	+32.95
SW UMa	08 32 58.405		+53 39 04.80		BFW87						164.81	+36.95
HR 3395	08 33 11.523	-0.84	+06 47 45.07	-11.9	AGK3			+6°1109	116929	11781	219.12	+26.21
CC Cnc	08 33 24.		+21 31 30.		GCVS						203.66	+32.15
EI UMa	08 34 48.5		+48 48 37.		PG						170.88	+37.36
BB Vel	08 35 11.61		-47 12 06.2		L85						265.47	-03.90
TX Cnc	08 37 10.291	-0.30	+19 10 39.16	-2.9	AGK3			+19°0873			206.62	+32.17
BU Vel	08 38 20.08	-0.20	-42 39 01.5	+0.3	Cp00 ft						262.20	-00.69
HR 3442	08 38 32.028	-0.32	-52 52 36.32	+0.7	Per70		41950		236158	11933	270.33	-06.92
omi Vel	08 38 51.636	-0.221	-52 44 37.11	+1.90	FK4	1227	31227		236164	11943	270.25	-06.80
V343 Car	08 39 30.824	-0.034	-59 34 55.29	+0.29	FK4Sup	2685	41957		236181	11964	275.82	-10.86
EU Hya	08 39 36.		-06 33 00.		GCVS						232.60	+20.91
EG Cnc	08 40 03.26		+28 02 39.2		McN86						196.72	+35.55
TX Pyx	08 40 29.52		-32 09 41.6								254.18	+06.11
HX Vel	08 40 39.102	-0.32	-47 55 07.79	-1.2	Per70		41962		220313	11988	266.60	-03.61
HY Vel	08 40 59.363	-0.24	-52 56 01.48	+1.7	Per70		41964		236205	11997	270.60	-06.66
AC Cnc	08 41 41.70		+13 03 26.1		McN86						213.74	+30.82
CoD -45°4482	08 43 05.61		-45 47 58.2		AC						265.20	-01.97
AD Cnc	08 43 38.		+10 31 00.		GCVS						216.64	+30.17
eps Hya C	08 44 07.508	-1.28	+06 36 11.91	-5.4	Per70		41978			12102	220.72	+28.53
RS Cha	08 44 58.108	-0.93	-78 53 15.10	+3.9	SAO				256549	12128	292.55	-21.63
rho Hya	08 45 47.114	-0.13	+06 01 24.82	-3.7	Per70		41987	+6°1139	117146	12148	221.52	+28.62
TT Pyx	08 46 21.553	+0.03	-25 58 39.08	-1.1	SAO				176505		250.05	+10.92
CoD -44°4834	08 46 29.67		-44 41 13.3		AC						264.71	-00.80
HD 75446	08 46 42.283	-0.34	-42 12 52.63	+0.6	SAO				220504	12169	262.82	+00.79
HD 75655	08 47 57.715	-0.08	-41 33 22.66	-0.6	SAO				220538		262.46	+01.39
HR 3525	08 48 31.719	-0.16	-41 54 08.36	-0.9	SAO				220552	12218	262.80	+01.25
M67-186	08 48 43.1		+11 58 14.								215.73	+31.92
KX Vel	08 48 51.625	-0.09	-46 20 29.20	-0.6	Per70		41999		220561	12227	266.25	-01.54
15 Hya	08 49 06.951	-0.31	-06 59 19.68	-0.2	Per70		42000		136345	12232	234.39	+22.64
HD 75767	08 49 35.089	+1.02	+08 15 18.27	-23.9	AGK3			+8°1194	117212	12243	219.75	+30.49
BZ UMa	08 49 52.485		+58 00 04.10		BFW87						159.00	+38.84

Name	RA(1950)	μ(RA)	Dec(1950)	μ(Dec)	Pos Ref	FK4	SRS	AGK3	SAO	GC	l	b
RZ Pyx	08 49 56.062	-0.08	-27 17 41.72	-1.2	SAO				176601	12381	251.60	+10.73
II Vel	08 50 48.01		-49 02 42.8								268.54	-03.02
DF Hya	08 52 23.		+06 17 36.		GCVS						222.13	+30.19
AK Cnc	08 52 35.29		+11 31 12.0		W83						216.72	+32.58
HD 76536	08 53 18.216	-0.11	-47 24 03.05	-1.0	SAO				220658		267.55	-01.64
HR 3574	08 54 48.708	-0.03	-52 31 50.25	+0.6	SAO				236417		271.62	-04.79
CU Vel	08 56 44.57		-41 36 09.8		L85						263.55	+02.59
TY Pyx	08 57 34.039	-0.45	-27 37 10.53	-3.2	SAO				176805	12438	252.95	+11.84
SY Cnc	08 58 14.34	-0.16	+18 05 44.1	-0.6	(W83)						210.00	+36.44
WY Cnc	08 58 58.19		+26 53 17.9		AC						199.48	+39.30
CV Vel	08 59 03.648	-0.12	-52 21 31.73	-0.1	SAO				236495	12480	271.16	-03.52
KUV 08599+4	08 59 53.79		+41 29 39.8		KUV						180.47	+41.64

Name	Bayer	Flmstd	HR	HD	BD	CoD	CPD	Var	Other
BH CMi					+2°1855			BH CMi	325.1934; CSV 1202; NSV 03867; P 3098
PZ Pup				66403		-34°04233	-34°01912	PZ Pup	
YY CMi				67110	+2°1872			YY CMi	107.1934; P 3108
SW Lyn				67008	+42°1811			SW Lyn	CSV 1210; S 4746
BH Pup				67889		-41°03793	-41°02162	BH Pup	P 3125
eps Vol	eps Vol		3223	68520		-68°00528	-68°00736		22G Vol
YZ Cnc								YZ Cnc	BV 131
gam1 Vel	gam1 Vel		3206	68243		-46°03846			8G Vel; NSV 03930; X0807-471 (1ES)
gam2 Vel	gam2 Vel		3207	68273		-46°03847	-46°02202	gam2 Vel	9G Vel; CSV 6619; He 3-127; INCA 1088; L
SU UMa								SU UMa	5.1908; PG 0808+627; X0808+627 (1ES,1H
Z Cha								Z Cha	CSV 1244; S 4893
CP Pup								CP Pup	86.1942; He 3-130; N Pup 1942
XZ Pup				68884		-23°06977	-23°03476	XZ Pup	
WY Hya								WY Hya	109.1934
HR 3244			3244	69144		-46°03929	-46°02281		15G Vel
VV Pup								VV Pup	X0812-188 (1ES)
IX Vel						-48°03636	-48°01577	IX Vel	LSS 1024
AU Pup				69951		-41°03957	-41°02337	AU Pup	696.1935
AZ Pup						-34°04600	-34°02232	AZ Pup	697.1935
IT Vel				70084		-46°04025	-46°02383	IT Vel	
BP Vel								BP Vel	P 538
BH Lyn								BH Lyn	PG 0818+513; SVS 2865
HD 70271				70271	+45°1570				CSV 6628; NSV 04031; SVS 1396
Z Cam								Z Cam	
PSR 0820+02									PSR 0820+02
1 Hya		1 Hya	3297	70958	-3°2333				15G Hya; Gl 306
AV Pup								AV Pup	272.1930; P 543
AW Pup						-28°05985	-28°03116	AW Pup	195.1932; P 545
FG Hya					+3°1979			FG Hya	334.1934; P 3177
NO Pup			3327	71487		-38°04462	-38°02296	NO Pup	312G Pup
AT Cnc								AT Cnc	GJ 2068; GR 151
VV Pyx			3335	71581	-20°2538		-20°03719	VV Pyx	(313G Pup); BV 634; NSV 04089
HR 3337A			3337 A	71663 A	-2°2581 A				25G Hya A
LO Hya			3337 B	71663 B	-2°2581 B			LO Hya	25G Hya B
AS Vel				71872		-38°04504	-38°02338	AS Vel	698.1935

Name	Bayer	Flmstd	HR	HD	BD	CoD	CPD	Var	Other
HR 3358	A Vel		3358	72108		-47°04004	-47°02296		33G Vel
X Car				72698		-58°02144	-58°01143	X Car	
FX Vel						-37°04833	-37°02534	FX Vel	AS 202; BV 1097; He 3-174
HR 3352			3352	71973	+75°0342				
SW UMa								SW UMa	44.1909
HR 3395			3395	72945	+7°1997				6G Cnc; Gl 310.1A
CC Cnc								CC Cnc	
EI UMa								EI UMa	PG 0834+488; X0834+488 (1H)
BB Vel								BB Vel	P 3204
TX Cnc					+19°2068			TX Cnc	220.1937; NGC 2632-244
BU Vel						-42°04492	-42°02793	BU Vel	
HR 3442			3442	74146		-52°02484	-52°01579		54G Vel; IC 2391-16; NSV 04194
omi Vel	omi Vel		3447	74195		-52°02487	-52°01583	omi Vel	56G Vel; CSV 6651; IC 2391-20
V343 Car	d Car		3457	74375		-59°02020	-59°01080	V343 Car	99G Car; CSV 6654
EU Hya					-6°2694			EU Hya	71.1931; P 566
EG Cnc								EG Cnc	
TX Pyx				74352		-31°06443	-31°02529	TX Pyx	BV 495
HX Vel			3462	74455		-47°04251	-47°02578	HX Vel	60G Vel
HY Vel			3467	74560		-52°02506	-52°01607	HY Vel	62G Vel; IC 2391-34
AC Cnc								AC Cnc	SVS 1280; X0841+130 (H)
CoD -45°4482						-45°04482	-45°02957		He 3-200; LSS 1145; MR 13; WR 12
AD Cnc								AD Cnc	SVS 1277
eps Hya C	eps Hya C	11 Hya C		74874 C	+6°2036 C				59G Hya C; AFGL 1289; IRC +10193
RS Cha			3524	75747		-78°00342	-78°00378	RS Cha	9G Cha; BV 430; CSV 6667
rho Hya	rho Hya	13 Hya	3492	75137	+6°2040				5H Hya; 64G Hya
TT Pyx				75322		-25°06589	-25°03886	TT Pyx	200.1932; CSV 1369; P 575
CoD -44°4834						-44°04834	-44°03096		BV 1200; LSS 1160; NSV 04260
HD 75446				75446		-41°04523	-41°02999		
HD 75655				75655		-41°04549	-41°03027		
HR 3525			3525	75759		-41°04560	-41°03040		77G Vel; LSS 1176
M67-186									M67-186; Racine II-222
KX Vel	f Vel		3527	75821		-46°04661	-46°03120	KX Vel	78G Vel; LSS 1181
15 Hya		15 Hya	3523	75737	-6°2743				70G Hya; CSV 101005; NSV 04282; Zi 721
HD 75767				75767	+8°2134				11G Cnc; X0849+082 (EXO)
BZ UMa								BZ UMa	PG 0849+580; SVS 1719

Name	Bayer	Flmstd	HR	HD	BD	CoD	CPD	Var	Other
RZ Pyx				75920		-27°06009	-27°03452	RZ Pyx	642.1935; P 3239
II Vel						-48°04184	-48°02002	II Vel	
DF Hya								DF Hya	169.1935; P 3243
AK Cnc								AK Cnc	77.1933; CSV 1381; P 578
HD 76536				76536		-47°04504	-47°02912		He 3-226; LSS 1202; MR 16; WR 14
HR 3574	H Vel		3574	76805		-52°02674	-52°01788		88G Vel
CU Vel								CU Vel	715.1935; HV 8171; P 3257; S 4907
TY Pyx				77137		-27°06141	-27°03536	TY Pyx	BV 811; INCA 1092
SY Cnc					+18°2101			SY Cnc	401.1929; PG 0858+181; SVS 228; X0818+
WY Cnc					+27°1706			WY Cnc	CSV 1397; S 4751
CV Vel				77464		-51°03420	-51°01811	CV Vel	HV 11109
KUV 08599+4130									KUV 08599+4130

Name	Sp1	Sp2	T-JD 2400000	P	e	omel	V0	K1	K2	v1 sin i	v2 sin i
BH CMi			47587.3599	0.559355							
PZ Pup	B2/3 IV			1.085147							
YY CMi	F6Vn		28023.147	1.0940197							
SW Lyn	F1V	(K4V)	43975.390	0.6440634	0	-	+23.8	73			
BH Pup	B3/5III	(A6.5)	21692.523	1.915854							
eps Vol	B6IV	[B7V]	19457.104	14.16833	0.00	-	+9.68	66.67	82.0	38	
YZ Cnc	sdBe	(M5V)	46113.794	0.0868	0	-	+19.	50		522 Sh; 658 Wi	
gam1 Vel	B1IV	[B6V]	37663.538	1.482575	0.057	197.6	+9.7	45.0		119	
gam2 Vel	WC8	O9Ie	43597.5	78.519	0.53	41	-18.	118.6	40.8		220
SU UMa	sdBe	(M5V)	46143.7054	0.076351	0	-	+25.7	58.4		334 e	
Z Cha	sdBe	M5.5V	40264.68336*	0.0744991674	0	-	-23.	88.	430	691 e	
CP Pup	sdBe		46165.3342	0.06143	0	-	+21.	119.			
XZ Pup	A0V	G(8IV)	42412.19458	2.1923631	0.0	-	+21.4	77.0			
WY Hya	A6V	A6V	40570.9755	0.7160065	0	-	-	<~100.	<~100.		
HR 3244	B2.5IV			5.8?						57	
VV Pup	sdBe	M	36550.06097	0.0697468487	0	-	+16.		437. e	429: Wi	
IX Vel	O9nne	(K9V)	46722.8366	0.1939289	0	-	+31.	138	107. e		
AU Pup	A0V		39112.9551	1.12640327							
AZ Pup	[B7]	(B8)	28110.870	0.86737053							
IT Vel	B7III		42524.231	2.0882	0	-	+26.1	7.0		435	
BP Vel	[K1]	(K0.5)	26534.9854	0.26498597							
BH Lyn	sdBe		47180.3364	0.15587490	0	-	+50.	196.			
HD 70271	G5(V)	[G5V]		0.997							
Z Cam	sdBe	K7V	38470.841	0.289840	0	-	-38.	137	193	677 Sh; 700 e; (31	
PSR 0820+02	(psr)	wd	44287.0	1232.47	0.011868	332.02	-	2.868461			
I Hya	F3V	[M4V]	22650.082	1.562975	0.051	123.92	+71.3	30.28		35	
AV Pup	F8	(F9.5)	31178.131	0.5563389							
AW Pup	[A5]	(G4IV)	27601.919	0.68108*							
FG Hya	G0V	G0V	44968.2764	0.327832	0	-	(-42.)	(92.)			
NO Pup	B9V	(A7V)	41752.48342	1.2568803	0.1255 phi	13.0 phi					
AT Cnc	sdBe		46110.504?	0.2386913							
VV Pyx	A1V	A1V	44620.85574	4.5961832	0.0956 phi	108.7 phi	+1.5	103.6	103.7		
HR 3337A	A5(V)m	[F8V]	42880.945	5.9766	0.09	110.31	-14.30	41.88	67.5		
LO Hya	A5(V)m	(F8V)	44623.7848	2.499629	0.00	-	-10.56	86.90	124.8		
AS Vel	A6V		46144.54206	1.5578850							

Name	Sp1	Sp2	T-JD 2400000	P	e	omel	V0	K1	K2	v1 sin i	v2 sin i
HR 3358	B2IV			2.08	0	-	+27.	22.5		66	
X Car	A0V	A0V	28857.146	1.0826310	0.0	-	+15.	120	120		
FX Vel	B9III-IVe		34302.525	1.052565							
HR 3352	A2[V]m	[F6V]	24971.150	4.285	0.109	101.71	-7.42	63.53		20	
SW UMa	sdBe			0.05681	0	-	-23.	47		704 Sh; 495 Wi	
HR 3395	F8V		21599.474	14.296	0.276	220.80	+24.23	22.74			
CC Cnc	sdBe			0.0942?	0	-	-	130.		~350. e	
EI UMa	sdBe		46149.9479	0.26810	0	-	-42.	65.			
BB Vel				(0.354)							
TX Cnc	F8V	F7V	38011.3909	0.382881537	0.0	-	+26.6	117.3	189.8		
BU Vel	B5(V)	(B6V)	41013.386	0.5162856							
HR 3442	B4IV		19729.49	3.192276	0.05	288	+14.5	57.		56	
omi Vel	B3III-IV		44651.6922	2.779						40	
V343 Car	B1.5III		18011.15	133.92	0.57	275.43	+13.	55.		48	
EU Hya	F2V	G6V	34126.335	0.7782085							
EG Cnc				[0.182]							
TX Pyx	F2V		27844.475	1.123745							
HX Vel	B1.5Vn		42758.253	1.124794	0	-	+35.7	18.6		285	
HY Vel	B3IV		44627.727	3.105852	0	-	+22.2	5.2		22	
AC Cnc	sdBe	K0V	44290.309	0.30047768	0	-	+122.e	204.	165	334. e	
CoD -45°4482	WN7	[O9.5V]		23.9	0	-	-34.	130.			
AD Cnc	K0V	K0V	46826.8787	0.28273731							
eps Hya C	F7V		23800.007	9.9047	0.62	117.6	+31.2	35.0			
RS Cha	A8IV	A8IV	42850.7688	1.669870	0	-	+15.9	136.1	138.9		
rho Hya	A0Vn			8.2						126	
TT Pyx	B9	(F6.5)	44234.800	1.515778							
CoD -44°4834	B0(III)		47866.096	4.2905							
HD 75446	B5/7V		43097.799	3.087	0	-	-	61.6			
HD 75655	B2III		43095.216	7.43	0	-	-	24.4			
HR 3525	B1-2III	[B1-2III]	38848.28	33.311	0.634	85.2	+23.4	121.3	150.4	39	
M67-186				0.8712							
KX Vel	B0III									74	
15 Hya	A3/8/F0(III)m	[A9V]	40001.374	2.895151	0.003	-	+32.5	34.6	43.2	25	
HD 75767	G1V		24891.018	10.2504	0.1	314	+3.5	24.5			
BZ UMa	sdBe			0.0679						330 e	

Name	Sp1	Sp2	T-JD 2400000	P	e	omel	V0	K1	K2	v1 sin i	v2 sin i
RZ Pyx	B3-4V	(B4V)	46522.33949	0.65627334	0	-	+22.	241	294	200	190
II Vel	B2IV	(B2IV)		2.9757							
DF Hya	G0V		45021.5009*	0.33060443							
AK Cnc	sdBe	*		[0.108]							
HD 76536	WC6		46480.279	2.42?							
HR 3574	B5V	[F9V]	17967.119	0.9147	0.131	44.33	+22.20	46.31		48	
CU Vel	(sdBe)	(M5V)		0.0772:							
TY Pyx	G5IV	G5IV	43187.2304	3.1985787	0.0	-	+63.2	97.5	96.2	26.*	24
SY Cnc	sdBe	G9V		0.380	0	-	-	86		320 Sh; 645 Wi	
WY Cnc	G5V		46025.9017	0.82936984	0	-	+29.7	92.8		*	
CV Vel	B2.5V	B2.5V	42048.6689	6.889494	0	-	+24.3	127.0	129.2	60	85
KUV 08599+4130			47881.8597	0.1517							

Name	Spectroscopic orbit
BH CMi	
PZ Pup	
YY CMi	
SW Lyn	Kaluzny, J. 1985, Acta Astr., 35, 327; Vetesnik, M. 1977, BAC, 28, 120
BH Pup	
eps Vol	Sanford, R.F. 1914, Lick Bull., 8, 127
YZ Cnc	Shafter, A.W., Hessman, F.V. 1988, AJ, 95, 178
gam1 Vel	Hernandez, C.A., Sahade, J. 1980, PASP, 92, 819
gam2 Vel	Stickland, D.J., Lloyd, C. 1990, Obs., 110, 1
SU UMa	Thorstensen, J.R., Wade, R.A., Oke, J.B. 1986, ApJ, 309, 721
Z Cha	Marsh, T.R., Horne, K., Shipman, H. 1987, MN, 225, 551; Wade, R.A., Horne, K. 1988, ApJ, 324, 411
CP Pup	O'Donoghue, D., Warner, B., Wargau, W., Grauer, A.D. 1989, MN, 240, 41
XZ Pup	Lucy, L.B., Sweeney, M.A. 1971, AJ, 76, 544
WY Hya	Struve, O. 1950, AJ, 55, 152
HR 3244	(van Hoof, A. 1973, Meded. K. Acad. Weten., Lett., Sch. Kunst. België, Kl. Weten., 35, nr. 4)
VV Pup	Schneider, D.P., Young, P. 1980, ApJ, 240, 871
IX Vel	Beuermann, K., Thomas, H.-C. 1990, AAp, 230, 326
AU Pup	
AZ Pup	
IT Vel	(Thackeray, A.D., Tritton, S.B., Walker, E.N. 1973, MemRAS, 77, 199)
BP Vel	
BH Lyn	Thorstensen, J.R., Davis, M.K., Ringwald, F.A. 1991, AJ, 102, 683
HD 70271	
Z Cam	Robinson, E.L. 1973, ApJ, 186, 347; Kraft, R.P., et al. 1969, ApJ, 158, 589
PSR 0820+02	Taylor, J.H., Dewey, R.J. 1988, ApJ, 332, 770
1 Hya	Sanford, R.F. 1922, ApJ, 55, 30
AV Pup	
AW Pup	
FG Hya	Smith, H.J. 1963, AJ, 68, 39
NO Pup	
AT Cnc	
VV Pyx	Andersen, J., Clausen, J.V., Nordström, B. 1984, AAp, 134, 147
HR 3337A	Bakos, G.A. 1985, JRASC, 79, 119; Fekel, F.C. 1979, PhD Thesis, U. Texas
LO Hya	Bakos, G.A. 1985, JRASC, 79, 119; Fekel, F.C. 1979, PhD Thesis, U. Texas
AS Vel	

Name	Spectroscopic orbit
HR 3358	van Hoof, A. 1973, Meded. K. Acad. Weten., Lett., Sch. Kunst. België, Kl. Weten., 35, nr. 4
X Car	Sahade, J. 1952, ApJ, 115, 134
FX Vel	
HR 3352	Harper, W.E. 1930, Pub. DAO, 4, 309
SW UMa	Shafter, A.W., Szkody, P., Thorstensen, J.R. 1986, ApJ, 308, 765
HR 3395	Joy, A.H., Abetti, G. 1919, ApJ, 50, 391
CC Cnc	Munari, U., Bianchini, A., Claudi, R. 1990, IAUC 5024
EI UMa	Thorstensen, J.R. 1986, AJ, 91, 940
BB Vel	
TX Cnc	Whelan, J.A.J., et al. 1973, ApJ, 183, 133
BU Vel	
HR 3442	Levato, H., García, B., Loustó, C., Morrell, N. 1988, ApSpSci, 146, 361
omi Vel	(Curtis, H.D. 1908, LOB, 5, 60; Wright, W.H., et al. 1911, PLO, 9, 71; Campbell, W.W., Moore, J.H. 1928, PLO, 16, 1; Feinstein, A. 1961,
V343 Car	van Hoof, A. 1972, Meded. K. Acad. Weten., Lett., Sch. Kunst België, Kl. Weten., 34, nr. 4
EU Hya	
EG Cnc	
TX Pyx	
HX Vel	(Campbell, W.W., Moore, J.H. 1928, Pub. Lick Obs., 16, 1; Buscombe, W. 1962, MN, 124, 189)
HY Vel	(Campbell, W.W., Moore, J.H. 1928, Pub. Lick Obs., 16, 1; Feinstein, A. 1961, PASP, 73, 410; Buscombe, W. 1965, MN, 129, 411; Levato,
AC Cnc	Schlegel, E.M., Kaitchuck, R.H., Honeycutt, R.K. 1984, ApJ, 280, 235
CoD -45°4482	Niemela, V.S. 1982, IAU Symp. 99, p. 299
AD Cnc	
eps Hya C	Sanford, R.F. 1926, ApJ, 64, 179
RS Cha	Andersen, J. 1975, AAp, 44, 445
rho Hya	
TT Pyx	
CoD -44°4834	
HD 75446	Gieseking, F. 1981, Astr. Ap. Suppl., 43, 33
HD 75655	Gieseking, F. 1981, Astr. Ap. Suppl., 43, 33
HR 3525	Thackeray, A.D. 1966, MN, 134, 97
M67-186	
KX Vel	
15 Hya	Abt, H.A., Levy, S.G. 1985, ApJ Suppl., 59, 229
HD 75767	Sanford, R.F. 1931, ApJ, 74, 205
BZ UMa	

Name	Spectroscopic orbit
RZ Pyx	Bell, S.A., Malcolm, G.J. 1987, MN, 227, 481
II Vel	
DF Hya	
AK Cnc	
HD 76536	
HR 3574	Neubauer, F.J. 1930, Lick Bull., 15, 104
CU Vel	
TY Pyx	Andersen, J., Popper, D.M. 1975, AAp, 39, 131
SY Cnc	Shafter, A.W. 1983, PhD Thesis, UCLA
WY Cnc	Awadalla, N.S., Budding, E. 1979, ApSpSci, 63, 479
CV Vel	Andersen, J. 1975, AAp, 44, 355
KUV 08599+4130	

Name	V	B-V	U-B	R-I	E(B-V)	par	Cluster	ADS	Vis Binary	Companions
BH CMi	9.6 p									
PZ Pup	8.34	-0.07	-0.62							
YY CMi	8.33	+0.37	-0.01							
SW Lyn	9.51	+0.30			0.03					
BH Pup	8.4 p						<Cr 173>			
eps Vol	4.35 D	-0.11	-0.46	-0.09	0.03				Rmk 7 A	8.0, 6.0"
YZ Cnc	11.9 v	-0.11	-0.84		0.00 u					
gam1 Vel	4.27	-0.23	-0.92	-0.18	0.04		Vel OB2		Del 65 B	1.78V, WC8, 41.2"
gam2 Vel	1.76	-0.29	-0.99	-0.13	0.04	0.0169;	Vel OB2		Del 65 A	4.27V, B1V, 41.2"; 7.65V, B6V, 65"
SU UMa	12.2 v	+0.07	-0.84		0.00 u					
Z Cha	11.5 v	+0.05	-0.78		0.00 u					
CP Pup	14.97	+0.20	-0.88	+0.28E	0.1 i		<Cr 173>			
XZ Pup	7.75				0.09 m					
WY Hya	10.4 p									
HR 3244	5.13	-0.14	-0.63				<Cr 173>			del m=3.9, 35"
VV Pup	14.6 V				0.0 u					
IX Vel	9.57	0.00	-0.73	+0.15	0.00 u		(Cr 173)			
AU Pup	8.50	+0.03								
AZ Pup	9.6 v	+0.06	-0.49							
IT Vel	7.03	-0.13	-0.70				<Cr 173>			
BP Vel	12.9 p									
BH Lyn	15.58	+0.15	-0.77							
HD 70271	8.0 v				0.02 m					
Z Cam	10.85	-0.01	-0.83	-0.03	0.02 u					
PSR 0820+02	22.6									
I Hya	5.61	+0.46	-0.06	+0.275C	0.08	0.057				
AV Pup	10.5 v	+0.56	+0.10							
AW Pup	10.2 p								Rst 1393 A	11.7v, 3.7"
FG Hya	9.90	+0.61	+0.06		0.02					
NO Pup	6.01	-0.02	-0.36		0.00	D0.005	(Cr 173)		h 4093 A	7.28H, 8.0"
AT Cnc	12.7 B									
VV Pyx	6.57	+0.04			0.022				B 2179 A	8.58V, 0.3"
HR 3337A	6.39 D	+0.33	+0.08		0.15	D0.015		6828 A	A 551 A (orb); Sig 1	7.2, A5m, 0.321"; 10.5, 18"
LO Hya	6.39 D	+0.33	+0.08		0.15	D0.015		6828 B	A 551 B (orb); Sig 1	7.1, A5m, 0.321"; 10.5, 18"
AS Vel	8.89									

Name	V	B-V	U-B	R-I	E(B-V)	par	Cluster	ADS	Vis Binary	Companions
HR 3358	5.33	-0.14	-0.79				<Cr 173>		phi 315; h 4104 A	del m=0.0, 0.2"; 7.7v, 4"
X Car	7.90	+0.04	-0.03		0.01					
FX Vel	9.70						Cr 173?			9.0-[12, 1.8"
HR 3352	6.27	+0.30	+0.11		0.08			6872 A	OSig 192 A rej	
SW UMa	10.8 v				0.0 u					
HR 3395	5.99	+0.52	+0.04			0.052		6886 A	Sig 1245 A	7.25V, G5V, 10.3"
CC Cnc	13.1 B				0.08 m				A	M star following
EI UMa	14.8	+0.1	-0.7		0.0 u					
BB Vel	13.8	+0.49	-0.33		0.01					
TX Cnc	10.00	+0.62	+0.10		0.02		NGC 2632			
BU Vel	10.49	+0.29			0.45		Vel OB1?			
HR 3442	5.19	-0.14	-0.57				IC 2391		h 4126 A	9.6, 16.6"
omi Vel	3.62	-0.18	-0.64	-0.18	0.05		IC 2391			
V343 Car	4.33	-0.11	-0.80	-0.13					Jsp 295 A	13.2, 15.7"
EU Hya	10.45	+0.34								
EG Cnc	11.9 V				0.06 m					
TX Pyx	9.5 p									
HX Vel	5.48	-0.18	-0.88				<IC 2391>		Rst 5304 A	7.1v, 0.3"
HY Vel	4.83	-0.17	-0.66	-0.19			IC 2391		BrsO A	BC 5.52V, B8Si, 76.6"
AC Cnc	14.07	+0.38	-0.54		0.0 u					
CoD -45°4482	11.02	+0.43	+0.22		0.91 u		Bo 7			
AD Cnc	13.13	+0.93								
eps Hya C	7.8					0.027;	D0.018	6993 C	Sig 1273 B (orb)	AB: G5III+A8IV; 3.8+4.7v, 3"; D 1
RS Cha	6.02	+0.23	+0.08		0.00					
rho Hya	4.36	-0.04	-0.04	-0.07		0.014		7006 A	AGC 3 A	13.1, 12.4"
TT Pyx	8.80									
CoD -44°4834	9.96	+1.05	-0.03							
HD 75446	7.38	-0.13	-0.58				Tr 10			
HD 75655	7.91	-0.02	-0.79				Tr 10			
HR 3525	6.00	-0.10	-0.95		0.06		Vel OB1?			
M67-186	20.77	+0.41	-0.91				M67			
KX Vel	5.08	-0.21	-0.99	-0.16			Sco-Cen		HdO 205 A	9.2v, 3.2"
15 Hya	5.54 D	+0.15	+0.14		0.00	D0.011		7050 A	bet 587 A; H V 20	7.5, 0.9"
HD 75767	6.57	+0.64	+0.06	+0.22E		0.018				
BZ UMa	10.8 v				0.04					

Name	V	B-V	U-B	R-I	E(B-V)	par	Cluster	ADS	Vis Binary		Companions
RZ Pyx	8.98	-0.04	-0.61		0.11						
II Vel	9.52	+0.11	-0.64		0.33		Vel OB1?		CapO A		
DF Hya	11. p										
AK Cnc	13. p				0.08 m						
HD 76536	9.51	+0.22			0.57		anon Vel a				
HR 3574	4.680	-0.115	-0.484	-0.14	0.05	D0.020	(Cr 173)		R 87 A	7.7, 2.8"	
CU Vel	11.4 v				0.04 m		Cr 173?				
TY Pyx	6.87	+0.69	+0.26		0.05	0.0118					
SY Cnc	11.50	+0.09	-0.79	+0.11	0.00 u						
WY Cnc	9.49	+0.610									
CV Vel	6.69	-0.16	-0.67		0.10		Cr 173?			12.8, ~20"	
KUV 08599+4	14.5										

Name	Vbl type	Min I	Min II	D	d	i	r1	r2	II	qph
BH CMi	EW	(0.37 y)	(0.30 y)							
PZ Pup	EB/KE	8.50				60.	0.395	0.355	0.67 V	0.80
YY CMi	EB	9.13	8.88			77.2	0.372	0.369	0.613 V	0.8
SW Lyn	EA/DW	10.20	9.65	0.12		83.7	0.427	0.272	0.966	0.3185
BH Pup	EA	9.1 p				77.5	0.333	0.242	0.97 p	0.20
eps Vol						58.05 s	0.26 ome			
YZ Cnc	UGSU	14.92				34.18 w				
gam1 Vel	-					24.76 ome				
gam2 Vel	WR					70. P	0.238*	0.06	0.25**	
SU UMa	UGSU	14.53				32.26 p				
Z Cha	UGSU+EA	15.15		[0.0602]		80.04				0.1495
CP Pup	NA	(0.11)								
XZ Pup	EA/SD	10.26	7.90	0.21	0.000	90.0	0.299	0.2975	0.928 y	0.406
WY Hya	EW/KE	11.2 p	11.2 p			87.3	0.299	0.298	0.485 y	1
HR 3244										
VV Pup	XPM+ELL	17.1 V				78.				
IX Vel	NL					49.87				
AU Pup	EB/KE	9.46	9.28			80.99	0.4789	0.4074	0.6349 y	0.6443
AZ Pup	EB	(0.5 p)	(0.4 p)			74.	0.39	0.36	0.60 p	0.85
IT Vel	ELL:	7.08	7.08							
BP Vel	EW/KW	13.8 p	13.7 p			85.	0.410	0.305	0.61 p	0.68
BH Lyn	EA+NL:	15.8 B		[0.094]						
HD 70271	EA:	8.8 v				~90.	0.175	0.175	0.500 V	
Z Cam	UGZ	13.6				~55.				
PSR 0820+02										
1 Hya						51.12 pi				
AV Pup	EW/DW	11.1 v				83.5	0.340	0.325	0.57 v	0.96
AW Pup	EA/SD	10.9 p		0.35		78.	0.44	0.26	0.96 p	0.24
FG Hya	EW/KW	10.28	10.25		0.085; 0.085	85.16	0.579	0.264	0.8470 V	0.142
NO Pup	EA/KE:	7.12 v	6.82 v	0.13	0.000	77.8	0.244	0.195	0.534 y*	
AT Cnc	UG:	16.0 B								
VV Pyx	EA/DM	7.05	7.03	0.06; 0.08		88.075	0.1156	0.1156	0.467 y*	
HR 3337A						46.82 del				
LO Hya	EA/DM	(0.22)	(0.07)			86.2	0.180	0.116	0.891	
AS Vel	EA/KE:	9.51	9.0	0.12		88.86	0.199	0.112	0.998 y	0.45

Name	Vbl type	Min I	Min II	D	d	i	r1	r2	II	qph
HR 3358										
X Car	EB/KE	8.65	8.6			87.60	0.370	0.352	0.519 V	
FX Vel	EB/KE	10.70	10.5			87.5	0.388	0.360	0.60 p	0.86
HR 3352						65.30 pi				
SW UMa	UG	16.50				38.				
HR 3395										
CC Cnc	UG	17.6 B				57.63 pi				
EI UMa	NL									
BB Vel	UG	14.39				57.63 pi				
TX Cnc	EW/KW	10.35	10.32			63.1	0.423	0.338	0.589 bol	
BU Vel	EW	11.07	10.96			84.94	0.507	0.300	0.7689 V	0.251
HR 3442	ELL:									
omi Vel	Unique									
V343 Car	BCEP:									
EU Hya	EA/DW	(0.7 p)	(0.1 p)	0.14		85.	0.322	0.202	0.93 p	0.63
EG Cnc	NL	17: V				57.63 pi				
TX Pyx	E/KE	9.9 p	9.8 p			74.	0.41	0.27	0.94 V	0.3
HX Vel	ELL:	5.53	5.50:							
HY Vel	ELL:	4.90	4.90							
AC Cnc	EA/WD/NL:	15.4		[0.095]		73.76				
CoD -45°4482						66.06 pi				
AD Cnc	EW/KW	13.53	13.48			64.90	0.4302	0.3482	0.511 V	0.625
eps Hya C										
RS Cha	EA+DSCT	6.68	6.53	0.15		83.4	0.234	0.256	0.5195 V	
rho Hya										
TT Pyx	EA	9.48		0.30		77.5	0.285	0.260	0.88 V	0.26
CoD -44°4834	-	10.46	10.29							
HD 75446										
HD 75655										
HR 3525						82.74 se	0.039 ome			
M67-186										
KX Vel	E	(0.08 b)								
15 Hya	-					20.27 s	0.32 ome			
HD 75767										
BZ UMa	UG	17.8				57.63 pi				

Name	Vbl type	Min I	Min II	D	d	i	rI	r2	II	qph
RZ Pyx	EB/KE	9.84	9.80			87.4	0.386	0.360	0.542 V	
II Vel	E/D	9.65				72.4	0.259	0.259	0.500 V	
DF Hya	EW/KW	11.5 p	11.5 p			82.48	0.3158	0.4742	0.3589 V	2.5000
AK Cnc	UG	>17. p				57.63 pi			>0.65 R s*	
HD 76536		9.44								
HR 3574						39.14 pi				
CU Vel	UGSU	15.5 p				57.63 pi				
TY Pyx	EA/D/RS	7.47	7.45:			87.88	0.130	0.137	0.488 y	
SY Cnc	UGZ	14.0 v				29.70 w				
WY Cnc	EA/SD/RS	10.12	9.54	0.16		89.8	0.244	0.154	0.9792 V	0.38:
CV Vel	EA/DM	7.19	7.17	0.073	0.000	86.59	0.117	0.113	0.521 V	
KUV 08599+4130				[0.086]						

Name	Photometric solution
BH CMi	(Zakrzewski, B., Zola, S. 1989, IBVS 3360)
PZ Pup	Svechnikov, M.A., Kuznetsova, E.F. 1990, Katalog Priblizhennykh Fotometricheskikh i Absolyutnykh Elementov Zatmennykh Peremennykh Zvez
YY CMi	Giuricin, G., Mardirossian, F. 1981, AAp, 94, 391
SW Lyn	Kaluzny, J. 1985, Acta Astr., 35, 327
BH Pup	Svechnikov, M.A., Kuznetsova, E.F. 1990, Katalog Priblizhennykh Fotometricheskikh i Absolyutnykh Elementov Zatmennykh Peremennykh Zvez
eps Vol	
YZ Cnc	
gam1 Vel	
gam2 Vel	St.-Louis, N., Drissen, L., Moffat, A.F.J., Bastien, P., Tapia, S. 1987, ApJ, 322, 870; Hanbury Brown, R., Davis, J., Herbison-Evans, D., Alle
SU UMa	
Z Cha	(Wood, J., et al. 1986, MN, 219, 629)
CP Pup	
XZ Pup	Mezzetti, M., et al. 1980, AAp Suppl., 39, 265
WY Hya	Giuricin, G., Mardirossian, F., Mezzetti, M. 1981, AAp, 103, 349
HR 3244	
VV Pup	Piirola, V., Reiz, V.A., Coyne, G.V. 1987, ApSpSci, 130, 203
IX Vel	
AU Pup	Leung, K.-C., Schneider, D.P. 1978, ApJ, 222, 917
AZ Pup	Svechnikov, M.A., Kuznetsova, E.F. 1990, Katalog Priblizhennykh Fotometricheskikh i Absolyutnykh Elementov Zatmennykh Peremennykh Zvez
IT Vel	(Dean, J.F. 1980, MNASSA, 39, 13)
BP Vel	Svechnikov, M.A., Kuznetsova, E.F. 1990, Katalog Priblizhennykh Fotometricheskikh i Absolyutnykh Elementov Zatmennykh Peremennykh Zvez
BH Lyn	(Andronov, I.L., Kimeridze, G.N., Richter, G.A., Smykov, V.P. 1989, IBVS 3388)
HD 70271	(Lange, G.A. 1963, Astr. Tsirk., 246)
Z Cam	Kraft, R.P., et al. 1969, ApJ, 158, 589
PSR 0820+02	
1 Hya	
AV Pup	Svechnikov, M.A., Kuznetsova, E.F. 1990, Katalog Priblizhennykh Fotometricheskikh i Absolyutnykh Elementov Zatmennykh Peremennykh Zvez
AW Pup	Svechnikov, M.A., Kuznetsova, E.F. 1990, Katalog Priblizhennykh Fotometricheskikh i Absolyutnykh Elementov Zatmennykh Peremennykh Zvez
FG Hya	Twigg, L.W. 1979, MN, 189, 907
NO Pup	Gronbech, B. 1976, AAp, 50, 79; Gimenez, A., et al. 1986, AAp, 159, 157
AT Cnc	
VV Pyx	Andersen, J., Clausen, J.V., Nordström, B. 1984, AAp, 134, 147
HR 3337A	
LO Hya	Bakos, G.A. 1985, JRASC, 79, 119
AS Vel	García, J.M., Vaz, L.P.R., Giménez, A. 1990, Rev. Mexicana Astr. Astrofis., 21, 381

Name	Photometric solution
HR 3358	
X Car	Buckley, D.A.H. 1984, ApSpSci, 99, 191
FX Vel	Svechnikov, M.A., Kuznetsova, E.F. 1990, Katalog Priblizhennykh Fotometricheskikh i Absolyutnykh Elementov Zatmennykh Peremennykh Zvez
HR 3352	
SW UMa	Shafter, A.W., Szkody, P., Thorstensen, J.R. 1986, ApJ, 308, 765
HR 3395	
CC Cnc	
EI UMa	
BB Vel	
TX Cnc	Whelan, J.A.J., et al. 1973, ApJ, 183, 133
BU Vel	Twigg, L.W. 1979, MN, 189, 907
HR 3442	
omi Vel	(Waelkens, C., Rufener, F. 1983, AAp Sup, 52, 21)
V343 Car	
EU Hya	Svechnikov, M.A., Kuznetsova, E.F. 1990, Katalog Priblizhennykh Fotometricheskikh i Absolyutnykh Elementov Zatmennykh Peremennykh Zvez
EG Cnc	
TX Pyx	Svechnikov, M.A., Kuznetsova, E.F. 1990, Katalog Priblizhennykh Fotometricheskikh i Absolyutnykh Elementov Zatmennykh Peremennykh Zvez
HX Vel	(Shobbrook, R.R. 1981, MN, 196, 129)
HY Vel	
AC Cnc	(Schlegel, E.M., Kaitchuck, R.H., Honeycutt, R.K. 1984, ApJ, 280, 235)
CoD -45°4482	
AD Cnc	Samec, R.G., Van Hamme, W., Bookmyer, B.B. 1989, AJ, 98, 2287
eps Hya C	
RS Cha	Clausen, J.V., Nordström, B. 1980, AAp, 83, 339
rho Hya	
TT Pyx	Svechnikov, M.A., Kuznetsova, E.F. 1990, Katalog Priblizhennykh Fotometricheskikh i Absolyutnykh Elementov Zatmennykh Peremennykh Zvez
CoD -44°4834	(Kilkenny, D., van Wyk, F., Marang, F., Sekiguchi, K. 1991, IBVS 3659)
HD 75446	
HD 75655	
HR 3525	
M67-186	
KX Vel	(Balona, L.A., Laing, J.D. 1986, MN, 223, 621)
15 Hya	
HD 75767	
BZ UMa	

Name	Photometric solution
RZ Pyx	Bell, S.A., Malcolm, G.J. 1987, MN, 227, 481
II Vel	(Blümke, J., Haug, U. 1979, AG Mitt., 45, 181)
DF Hya	Liu, Q.-Y., Zhang, Y.-L., Wang, B., Zhang, Z.-S. 1990, AASin, 31, 237 (1991, Chin. AAp, 15, 12)
AK Cnc	
HD 76536	(Shylaja, B.S. 1990, ApSpSci, 164, 63)
HR 3574	
CU Vel	
TY Pyx	Andersen, J., et al. 1981, AAp, 101, 7
SY Cnc	
WY Cnc	Zeilik, M., Cox, D.A., Ledlow, M.J., Rhodes, M., Heckert, P.A., Budding, E. 1990, ApJ, 363, 647
CV Vel	Clausen, J.V., Gronbech, B. 1977, AAp, 58, 131
KUV 08599+4	(Grauer, A.D. 1990, unpub.)

Name	M1	M2	A	R1	R2	T1	T2	log L1	log L2	Distance	U	V	W
BH CMi													
PZ Pup													
YY CMi													
SW Lyn	1.42	0.45								233. phi			
BH Pup													
eps Vol	4.37 s	3.55								137. s			
YZ Cnc	0.96 w	0.21 p								312. k			
gam1 Vel	15.14 s	4.13								436. s			
gam2 Vel	6.20	18.02								436. s			
SU UMa	0.53 p	0.172 p								298. k			
Z Cha	0.93	0.191								113. phi			
CP Pup										851. n			
XZ Pup	3.06	1.24								338. phi			
WY Hya													
HR 3244													
VV Pup													
IX Vel	0.75	0.61 p								103. s			
AU Pup													
AZ Pup													
IT Vel													
BP Vel													
BH Lyn													
HD 70271	0.95 s	0.95 s								52.3 s			
Z Cam	1.15	0.82											
PSR 0820+02													
1 Hya	1.30 s	0.29 pi								23.9 spi			
AV Pup													
AW Pup													
FG Hya	1.08 s'	0.153 phi								154. phi			
NO Pup	2.57 s	1.68 del								130. phi			
AT Cnc													
VV Pyx	2.10	2.09								195. phi			
HR 3337A	1.64 del	1.02								108. phi			
LO Hya	1.46	1.02								108. phi			
AS Vel													

Name	M1	M2	A	R1	R2	T1	T2	log L1	log L2	Distance	U	V	W
HR 3358													
X Car	0.78	0.78								301. phi			
FX Vel													
HR 3352	2.09 s	1.17 pi								94.2 s			
SW UMa	0.62 w	0.112 p											
HR 3395													
CC Cnc	0.71 p	0.28 p								405. p			
EI UMa													
BB Vel	0.89 p	0.86 p								1160. p			
TX Cnc	1.00	0.62								183. phi			
BU Vel	5.37 s'	1.35								898. phi			
HR 3442													
omi Vel	8.13 s									168. s			
V343 Car													
EU Hya													
EG Cnc	0.89 p	0.55 p								277. p			
TX Pyx													
HX Vel													
HY Vel													
AC Cnc	0.79	0.98											
CoD -45°4482	15.84 s	21.52 pi								8110. s			
AD Cnc													
eps Hya C													
RS Cha	1.85	1.82								104. phi			
rho Hya													
TT Pyx													
CoD -44°4834													
HD 75446													
HD 75655													
HR 3525	18.20 s	14.68 s								1360. s			
M67-186													
KX Vel													
15 Hya	1.89 s	1.51								90.9 pi			
HD 75767													
BZ UMa	0.89 p	0.43 p								155. p			

RA 08h

Name	M1	M2	A	R1	R2	T1	T2	log L1	log L2	Distance	U	V	W
RZ Pyx	5.74	4.71											
II Vel	10.96 s	10.96 s								1000. phi			
DF Hya										2950. s			
AK Cnc	0.71 p	0.28 p											
HD 76536										389. p			
										2000. g			
HR 3574	4.79 s	1.08 pi											
CU Vel	0.53 p	0.174 p								70.1 spi			
TY Pyx	1.20	1.21								177. p			
SY Cnc	0.89 p	0.86 p								46.8 phi			
WY Cnc	2.38	0.91								624. p			
CV Vel	6.09	5.98											
KUV 08599+4130										636. phi			

Name	Notes
BH CMi	
PZ Pup	EB-EW
YY CMi	
SW Lyn	del m > = 3.2; (B-V)min = +0.37, +0.29
BH Pup	E (Algol-type)
eps Vol	
YZ Cnc	Twd < 25100K
gam1 Vel	
gam2 Vel	*lam 4650; **lam 4430; Ome=310°; a=0.0043"; del m=-1.2**; Ang. diam. 1=0.00044"+/-0.00005" (Hanbury Brown, R., Davis, J., Allen, L.
SU UMa	
Z Cha	*+2.25x10-12 E2 - 1.19x10-17 E3; Twd=13000K
CP Pup	t3=8d
XZ Pup	del m=2.5
WY Hya	
HR 3244	(Amp. 0.03b)
VV Pup	XM; Twd=9000K
IX Vel	
AU Pup	
AZ Pup	
IT Vel	Ell:; P=23.52d?
BP Vel	
BH Lyn	Del phi(ph-sp)=57°
HD 70271	
Z Cam	
PSR 0820+02	DM=23.6; V-R=-0.2:; U=60000yr
1 Hya	
AV Pup	
AW Pup	*P should prob. be dbld; Alternative lc soln: P=1.36216d, [B6]+(B6), i=89, r1=0.29, r2=0.29, l1=0.50, q=1.0
FG Hya	
NO Pup	U=37.2y; *t3=0.360 y
AT Cnc	
VV Pyx	Min II-Min I = 0.48p; *t3=0.167 y
HR 3337A	Vis. orb: P=52.64y, T=1948.94, a=0.337", e=0.447, i=85.6°, ome=223.8°, Ome=62.4° (Docobo, J.A., Costa,J.M. 1984, Circ. Inf., No. 99
LO Hya	Vis. orb: P=52.64y, T=1948.94, a=0.337", e=0.447, i=85.6°, ome=43.8°, Ome=62.4° (Docobo, J.A., Costa,J.M. 1984, Circ. Inf., No. 99)
AS Vel	Min II-Min I = 0.55p; T1=8000K (ass), T2=3194K

Name	Notes
HR 3358	
X Car	del m = 0.078 B,V
FX Vel	B9III-IVe+(A0III-IV), i=83.9, r1=0.398, r2=0.360, l1=0.585 p, q=0.80 (assumed) (lc: Strohmeier,W., Ott, H., Schöffel, E. 1968, IBVS 261
HR 3352	
SW UMa	Twd < 15000K
HR 3395	
CC Cnc	UG; P=0.1046d, 0.1158d, 0.1308d?
EI UMa	
BB Vel	UG
TX Cnc	del m = 0.22
BU Vel	Min II - Min I =
HR 3442	Ell? (0.01V)
omi Vel	*(del V=0.12); bet CMa (A. van Hoof 1972, AAp, 18 51)
V343 Car	betC 4.3-4.33 V
EU Hya	Alternative lc soln: F2+(G6IV), i=78, r1=0.34, r2=0.29, l1=0.88p, q=0.34
EG Cnc	NL
TX Pyx	Alternative lc soln: A3+(A5), i=83.5, r1=0.279, r2=0.258, l1=0.60p, q=0.88
HX Vel	Ell: (del V=0.05)
HY Vel	Ell: (del V=0.07)
AC Cnc	
CoD -45°4482	
AD Cnc	
eps Hya C	Vis. orb: P=890.0y, T=1933.0, a=4.536", e=0.29, i=42.0°, ome=23.1°, Ome=55.5° (Heintz, W.D. 1963, ZsAp, 57, 159)
RS Cha	MV=0.93
rho Hya	
TT Pyx	P=3.031556d?
CoD -44°4834	
HD 75446	
HD 75655	
HR 3525	
M67-186	AM
KX Vel	
15 Hya	
HD 75767	
BZ UMa	

Name	Notes
RZ Pyx	
II Vel	E
DF Hya	*+7.5x10-11 E2
AK Cnc	UG; 11 @ V=18.5; Secondary spectrum visible (Szkody, P., Howell, S.B. 1992, ApJ Sup, 78, 537)
HD 76536	Polarization cst: prob. single (Drissen, L., Robert, C., Moffat, A.F.J. 1991, ApJ, subm)
HR 3574	
CU Vel	
TY Pyx	*Pphtm~~Porb; MV=3.39
SY Cnc	
WY Cnc	*Pphtm~~Porb
CV Vel	
KUV 08599+4130	

Name	RA(1950)	μ(RA)	Dec(1950)	μ(Dec)	Pos Ref	FK4	SRS	AGK3	SAO	GC	l	b
PG 0900+401	09 00 06.5		+40 02 54.		PG							
GP Vel	09 00 13.184	-0.11	-40 21 25.29	-0.1	SAO				220767	12502	263.06	+03.93
UV Lyn	09 00 13.775	-0.61	+38 17 47.88	+1.2	AGK3			+38°0958	061222		184.75	+41.51
T Pyx	09 02 37.185	-0.11	-32 10 47.60	+0.6	( )						257.21	+09.71
IK Vel	09 03 41.863	-0.33	-53 00 42.74	+1.0	SAO				236583		272.87	-04.09
kap Cnc	09 05 02.414	-0.143	+10 52 14.13	-1.19	FK4	1238	31238	+10°1179	098378	12596	218.99	+35.06
15 UMa	09 05 21.304	-1.485	+51 48 28.45	-3.65	FK4Sup	2721		+51°0734	027136	12604	166.57	+42.02
75 Cnc	09 05 51.076	-0.961	+26 50 13.96	-38.19	FK4Sup	2724	42062	+26°0997	080659	12615	200.03	+40.78
XY UMa	09 06 18.413	-0.59	+54 41 39.96	-19.3	AGK3			+54°0702	027143		162.72	+41.67
V357 Car	09 09 39.120	-0.36	-58 45 41.26	+0.2	Per70		42075		236693	12696	277.69	-07.37
KW Hya	09 09 57.872	-0.14	-06 54 13.73	+1.5	SAO				136662	12704	237.55	+26.95
16 UMa	09 10 24.611	-0.033	+61 37 51.35	-3.05	FK4Sup	2730		+61°0639	014819	12713	153.62	+40.47
GG Vel	09 10 58.303	-0.10	-43 16 52.18	-0.7	SAO				220955		266.57	+03.42
HR 3676	09 14 10.453	+0.173	+47 01 37.03	+0.70	FK4Sup	2738		+47°0814	042790	12799	172.82	+44.02
PG 0917+342	09 17 08.4		+34 09 25.		PG						190.83	+44.50
AR Cnc	09 19 07.925		+31 16 03.90		BFW87						194.88	+44.52
BF Lyn	09 19 17.443	-3.03	+40 25 11.74	-38.2	AGK3			+40°1054	042826	12917	182.04	+45.28
kap Vel	09 20 33.853	-0.094	-54 47 47.30	+0.82	FK4	353	30353		236891	12938	275.88	-03.54
V377 Car	09 23 58.629	+0.18	-57 08 43.50	+0.1	SAO				236955		277.87	-04.88
EZ Hya	09 24 17.66		-13 32 03.3		AC						245.81	+25.69
TU Leo	09 27 00.		+21 36 42.		GCVS						208.63	+43.99
DK UMa	09 30 05.838	-1.243	+70 03 06.47	+7.60	FK4	357		+70°0370	006897	13171	142.55	+38.93
S Ant	09 30 06.988	-0.57	-28 24 24.28	+3.5	SAO				177619	13173	258.55	+16.62
SU LMi	09 31 09.969	+0.051	+36 37 14.38	-2.63	FK4	360	30360	+36°0939	061570	13203	187.61	+47.53
HR 3811	09 32 15.317	+0.07	+40 11 12.01	+0.4	AGK3			+40°1073	042932		182.32	+47.76
DL UMa	09 32 20.399	-1.32	+69 51 40.75	-7.1	AGK3			+69°0415	014934		142.64	+39.19
AV Hya	09 32 25.		+05 32 36.		GCVS						228.86	+38.50
SV LMi	09 32 39.994	-5.98	+36 02 14.94	-24.0	AGK3			+36°0941	061586	13242	188.49	+47.81
VV UMa	09 34 34.79		+56 14 38.5		PI77						159.23	+45.14
GW Car	09 34 57.419	-0.22	-59 45 39.57	+2.4	SAO				237142		280.72	-05.82
zet Cha	09 35 25.599	-1.25	-80 43 01.70	+0.3	Per70		42186		258538	13308	295.57	-21.04
omi Leo	09 38 29.008	-0.966	+10 07 14.64	-4.05	FK4	365	30365		098709	13366	224.60	+42.06
W UMa	09 40 15.413	+0.24	+56 10 56.29	-2.8	AGK3			+56°0765	027364		158.92	+45.89
HD 84184	09 40 51.573	+0.27	+02 51 25.03	-1.4	AGK3			+2°1292	117871	13411	233.21	+38.85
HD 84207	09 41 19.491	+0.55	+25 35 02.80	-9.5	AGK3			+25°1096	080992		204.40	+48.21

Name	RA(1950)	μ(RA)	Dec(1950)	μ(Dec)	Pos Ref	FK4	SRS	AGK3	SAO	GC	l	b
IP Vel	09 41 40.607	-0.29	-50 59 54.52	-0.6	SAO				237260	13421	275.67	+01.41
DK Hya	09 42 33.		-20 40 42.		GCVS						254.86	+24.08
DV UMa	09 43 26.0		+45 00 38.								174.75	+49.32
AA UMa	09 43 56.		+45 59 48.		GCVS						173.24	+49.23
KN Vel	09 45 53.733	-0.19	-49 42 38.73	-2.8	SAO				221496	13508	275.36	+02.83
RT LMi	09 46 49.54	-0.16	+34 41 16.9	+6.9	PI77						190.74	+50.64
DG Leo	09 47 02.359	-0.323	+21 24 48.04	-1.57	FK4Sup	2785	42217	+21°1070	081035	13528	210.95	+48.37
HD 85091	09 47 08.650	-2.23	+11 20 27.63	-8.0	AGK3			+11°1147	098794		224.48	+44.51
4 Sex	09 47 53.998	-1.03	+04 34 42.92	-5.7	AGK3			+4°1354	117937	13545	232.58	+41.26
X Leo	09 48 20.23	-0.33	+12 06 35.9	-1.5	(W83)						223.69	+45.11
QX Car	09 52 56.908	+0.09	-58 11 01.77	+1.0	SAO				237480	13654	281.48	-03.12
V396 Car	09 53 14.399	+0.06	-57 29 24.61	-1.3	SAO				237491	13663	281.08	-02.55
19 LMi	09 54 37.760	-1.056	+41 17 40.83	-2.91	FK4	374		+41°0966	043115	13700	180.07	+51.89
V367 Car	09 55 05.716	-0.14	-57 24 58.24	+0.3	SAO				237521	13710	281.23	-02.34
nu Leo	09 55 32.100	-0.147	+12 41 03.03	-1.94	FK4Sup	2800	42244	+12°1188	098876	13724	224.10	+46.95
DH Leo	09 57 13.305	-1.67	+24 47 36.13	-5.6	AGK3			+24°1119	081134	13748	206.86	+51.53
L 101-26	09 57 48.	-0.33	-66 39	+6.9							287.16	-09.46
BD +18°2304	09 58 01.841	+0.15	+18 06 11.91	-2.9	AGK3			+18°1020	098895		217.02	+49.71
XY Leo A	09 58 55.919	+0.38	+17 39 03.97	-5.1	AGK3			+17°1092			217.78	+49.73
XY Leo B	09 58 55.919	+0.38	+17 39 03.97	-5.1	AGK3			+17°1092			217.80	+49.74
HD 87059	09 58 57.707	-0.07	-59 23 39.26	+0.1	SAO				237588		282.84	-03.61
RU LMi	09 59 11.325		+34 05 30.80		BFW87						191.77	+53.22
XZ Leo	09 59 50.289	-0.01	+17 17 17.18	-1.8	AGK3			+17°1095			218.44	+49.80

Name	Bayer	Flmstd	HR	HD	BD	CoD	CPD	Var	Other
PG 0900+401									PG 0900+401
GP Vel				77581		-40°04838	-40°03072	GP Vel	LSS 1227; Vel X-1; X0900-403 (3A, H, 1H,
UV Lyn					+38°1992			UV Lyn	BV 90; CSV 6676
T Pyx								T Pyx	32.1913; HV 3348; N Pyx 1890, 1902, 1920,
IK Vel				78291		-52°02772	-52°01916	IK Vel	
kap Cnc	kap Cnc	76 Cnc	3623	78316	+11°1984			kap Cnc	27H Cnc; CSV 101025; Zi 733
15 UMa	f UMa	15 UMa	3619	78209	+52°1365				16H UMa
75 Cnc		75 Cnc	3626	78418	+27°1715				
XY UMa				237786	+55°1317			XY UMa	BV 31; INCA 2195
V357 Car	a Car		3659	79351		-58°02476	-58°01419	V357 Car	117G Car; CSV 6698
KW Hya		21 Hya	3655	79193	-6°2845			KW Hya	106G Hya
16 UMa	c UMa	16 UMa	3648	79028	+62°1058				18H UMa; Gl 337.1
GG Vel				79459		-42°05065	-42°03467	GG Vel	BV 1201
HR 3676			3676	79763	+47°1658				
PG 0917+342									PG 0917+342; Ton 1051
AR Cnc								AR Cnc	Ton 408
BF Lyn				80715	+40°2197			BF Lyn	G 116-23; GJ 1124; LFT 641; X0919+404 (1
kap Vel	kap Vel		3734	81188		-54°02757	-54°02219		129G Vel
V377 Car				81769		-56°02757	-56°02154	V377 Car	
EZ Hya					-13°2854			EZ Hya	78.1931; P 620
TU Leo								TU Leo	239.1928; SVS 167
DK UMa	d UMa	24 UMa	3771	82210	+70°0565			DK UMa	20H UMa; AFGL 1360; Gl 355.1; IRC +700
S Ant			3798	82610		-28°07373	-28°03764	S Ant	12G Ant
SU LMi		10 LMi	3800	82635	+37°2004			SU LMi	2H LMi; IRC +40208
HR 3811			3811	82780	+40°2226				
DL UMa				82620	+70°0567			DL UMa	
AV Hya								AV Hya	350.1934; P 3304
SV LMi		11 LMi	3815	82885	+36°1979			SV LMi	Gl 356A
VV UMa					+56°1395			VV UMa	P 3305; SVS 770
GW Car				83475		-59°02460	-59°01428	GW Car	193.1937
zet Cha	zet Cha		3860	83979		-80°00340	-80°00365	zet Cha	14G Cha; CSV 6735
omi Leo	omi Leo	14 Leo	3852	83808/9	+10°2044				8H Leo; AFGL 4751S; IRC +10210
W UMa				83950	+56°1400			W UMa	3.1903
HD 84184				84184	+3°2261				
HD 84207				84207	+26°1996				DHK 16

Name	Bayer	Flmstd	HR	HD	BD	CoD	CPD	Var	Other
IP Vel			3872	84400		-50°04420	-50°02636	IP Vel	153G Vel
DK Hya					-20°3005		-20°04710	DK Hya	643.1935; P 3333
DV UMa								DV UMa	US 943
AA UMa								AA UMa	CSV 1500; S 4758
KN Vel				85037		-49°04692	-49°02791	KN Vel	158G Vel
RT LMi								RT LMi	CSV 1508; S 4759
DG Leo		20 Leo	3889	85040	+21°2113			DG Leo	
HD 85091				85091	+11°2108				G 48-39; LTT 12609
4 Sex		4 Sex	3893	85217	+5°2240				7G Sex
X Leo								X Leo	66.1907
QX Car				86118		-57°02897	-57°02418	QX Car	163G Car; BV 470
V396 Car				86161		-57°02898	-57°02420	V396 Car	He 3-342; LSS 1374; MR 19; WR 16
19 LMi		19 LMi	3928	86146	+41°2033				4H LMi
V367 Car				86441		-57°02916	-57°02451	V367 Car	BV 699
nu Leo	nu Leo	27 Leo	3937	86360	+13°2183				13H Leo
DH Leo				86590	+25°2191			DH Leo	INCA 1103; NSV 04696; X0957+247 (1ES)
L 101-26									BPM 6114; L 101-26; WD 0957-666
BD +18°2304					+18°2304				
XY Leo A					18°2307 A			XY Leo A	356.1934; P 3373
XY Leo B					18°2307 B			XY Leo B	
HD 87059				87059		-59°02700	-59°01616		
RU LMi								RU LMi	Ton 1143
XZ Leo					+17°2165			XZ Leo	357.1934

Name	Sp1	Sp2	T-JD 2400000	P	e	omeI	V0	K1	K2	v1 sin i	v2 sin i
PG 0900+401	sdO	K3		0.33818							
GP Vel	B0.5Ibeslp	(XPSR)	43955.6488	8.964353	0.0896	332.8	-6.3	21.75	275.10		
UV Lyn	F8V	(G1V)	40271.5032	0.41498088							
T Pyx	sdBe			0.07374:	0.	-	-	29.1		489 Wi	
IK Vel	B5	(A8)		1.992321							
kap Cnc	B8IIIpHgMn	[A4V]	40001.95	6.39326	0.126	157	+24.5	67.4		9.*	
15 UMa	A2/9/F2III-V	[M7V]	40001.115	4.8915	0.30	183	+0.2	3.1		37	
75 Cnc	G5IV-V	[K0V]	44111.70	19.412	0.20	276	+10.4	26.6	33.6		
XY UMa	G3V	(K5V)	39913.5245	0.47899468	0	-	-9.2	119.5		100:*	
V357 Car	B2IV-V	[F4V]	16534.215	6.74469	0.18	112.97	+23.3	21.5		30	
KW Hya	A3III:m	A0V:	45024.42048	7.750469	0.0948	225.1	-4.1	70.12	93.17	15	13
16 UMa	F9V	[K4V]	23048.47	16.23969	0.09	143	-14.6	35.3		0	
GG Vel	A0V	(G1IV)	41329.98944	1.4752160							
HR 3676	A1[B9.5]V	[A3V]	19408.027	15.990	0.504	355.2	-13.11	63.34	73.64	53	
PG 0917+342	sdBe		48234.88721	0.0721:	0.000	-	+12.2	107		760 a	
AR Cnc	sdBe	M4-5.5		0.2146							
BF Lyn	K3V	[K3V]	45803.423	3.8025	0.0	-	-3.20	70.34	72.51		
kap Vel	B2IV-V		16456.66	116.776	0.19	96.60	+21.9	46.5		49	
V377 Car	B4V	[B4V]		2.242624							
EZ Hya	G2V		45767.9188	0.4497489	0.	-	+16.	67	266		
TU Leo	G0p			[0.108]							
DK UMa	G4III-IV			0.9202						<19:	
S Ant	A9Vn	F(1V)	35139.929	0.648345	0.0	-	+15.:	92.3		113	
SU LMi	G8.5III			40.4						<19:	
HR 3811	F2V	G0V	31540.712	1.68154	0.0	-	-25.0	99.1	136.5	45	
DL UMa	F0(V)			0.42							
AV Hya	A1V		36673.376	0.6834062							
SV LMi	G8IV-V			18.0						<17.	
VV UMa	A2V		45815.3365	0.687380	0.0	-	-13.	59			
GW Car	B1III:n	(B2III)	44697.0326	1.128907							
zet Cha	B5V			2.700	0.	-	+10.	90		88	
omi Leo	F6II	A5V	14660.09	14.49806	0.01	199	+27.2	54.3	63.06	<=50.	<=50.
W UMa	G2Vn	F8V	45765.9053	0.33363749	0	-	-32.4	108.9	247.5		
HD 84184	F8V	F		4.25	0.	-	-2.6	K1+K2>200.			
HD 84207	G0		47999.617	1.3742							

Name	Sp1	Sp2	T-JD 2400000	P	e	omeI	V0	K1	K2	v1 sin i	v2 sin i
IP Vel	B6V	(A8V)	42861.6697	1.289086	0	-	-27.	84			
DK Hya	[F8]	(G8IV)	31178.216	0.521951							
DV UMa	sdBe	~M4.5	46854.7451	0.08597							
AA UMa	G0V	G0V	46885.1119	0.46812583	0.	-	-35.55	236.46	130.23		
KN Vel	A2IV(m)		42763.00	1.346							
RT LMi	G0V	(F9)	45002.4147	0.3749180							
DG Leo	A7IVn	A8IV	42095.137	4.1467465	0	-	+27.31	100.10	101.31	20	20
HD 85091	G0Vwim	[M3V]	44685.870	3.3901472	0.002	68.3	+43.51	34.34			
4 Sex	F7Vn	[F7V]	44452.027	3.05468	0.00	-	+17.0	95.3	101.6		
X Leo	sdBe	M2V	46434.925	0.16440	0	-	+15.	105		670 Wi	
QX Car	B3V	B3V	43571.84238	4.4779754	0.278 phi	123.7 phi	+17.0	167.0	182.5	90	
V396 Car	WN8	[K8V]	43212.1	10.73	0	-	+51.:	6.0			
19 LMi	F6Vs	[G9V]	43860.53	9.28347	0	-	-8.9	18.9	25.3	0	
V367 Car	B3/4V		42468.79	5.73							
nu Leo	B9IV		19815.9	137.2978	0.700	293.7	+18.7	20.0		96	
DH Leo	K0Ve	K5-M0(V)e	45444.419	1.070354	0	-	+9.8	89.3	132.3	45.*	31
L 101-26	DA2		47630.409	1.15	0.	-	-	104			
BD +18°2304	F5[V]	(F5V)	39571.388	0.290							
XY Leo A	K0Vn	K0V	35484.0222	0.28410273	0	-	-50.	108	216		
XY Leo B			46426.319	0.8050	0.	-	-37.7	46.1	64.6		
HD 87059	B3III		43497.982	4.515	0.	-	-	61.3			
RU LMi	sdBe			0.244?							
XZ Leo	A6V	(A8)	45025.358	0.4877351							

Name	Spectroscopic orbit
PG 0900+401	
GP Vel	van Paradijs, J., Zuiderwijk, E.J., Takens, R.J., Hammerschlag-Hensberge, G., van den Heuvel, E.P.J., De Loore, C. 1977, AAp Suppl., 30, 195
UV Lyn	
T Pyx	Barrera, L., Vogt, N. 1989, The Physics of Classical Novae, IAU Colloq. 122, poster
IK Vel	
kap Cnc	Aikman, G. 1976, Pub. DAO, 14, 379
15 UMa	Abt, H.A., Levy, S.G. 1985, ApJ Suppl., 59, 229
75 Cnc	Beavers, W.I., Salzer, J.J. 1982, PASP, 94, 356
XY UMa	Rainger, P.P., Hilditch, R.W., Edwin, R.P. 1991, MN, 248, 168
V357 Car	Buscombe, W., Morris, P.M. 1960, MN, 121, 263
KW Hya	Andersen, J., Vaz, L.R.R. 1984, AAp, 130, 102
16 UMa	Abt, H.A., Levy, S.G. 1976, ApJ Suppl., 30, 273
GG Vel	
HR 3676	Harper, W.E. 1916, Pub. Dom. Obs., 3, 391
PG 0917+342	Dobrzycka, D., Howell, S.B. 1991, ApJ, in press
AR Cnc	
BF Lyn	Barden, S.C., Nations, H.L. 1986, Cool Stars, Stellar Systems, and the Sun, ed. M. Zeilik, D.M. Gibson (Berlin: Springer), p. 262
kap Vel	Curtis, W.D. 1907, Lick Obs. Bull., 4, 155; Buscombe, W., Morris, P.M. 1960, MN, 121, 263
V377 Car	
EZ Hya	King, D.J., Hilditch, R.W. 1984, MN, 209, 645
TU Leo	
DK UMa	
S Ant	Popper, D.M. 1956, ApJ, 124, 208
SU LMi	
HR 3811	Northcott, R.J. 1965, priv. comm. to A.H. Batten
DL UMa	
AV Hya	
SV LMi	
VV UMa	Struve, O. 1950, ApJ, 112, 184
GW Car	
zet Cha	van Hoof, A. 1973, Meded. K. Acad. Weten., Lett., Sch. Kunst. België, Kl. Weten., 35, nr. 4
omi Leo	Parsons, S.B. 1983, ApJ Suppl., 53, 553; Plummer, H.C. 1908, Lick Bull., 5, 21
W UMa	Hrivnak, B.J. 1990, Pacific Rim Colloquium on New Frontiers in Binary Star Research
HD 84184	Woolley, R., et al. 1981, R. Obs. Ann., no. 14
HD 84207	

Name	Spectroscopic orbit
IP Vel	(Hube, D.P. 1970, MemRAS, 72, 233)
DK Hya	
DV UMa	
AA UMa	Wang, Y.-R., Lu, W.-X. 1990, Acta Ap Sin, 10, 248 (Chin. AAp, 14, 389)
KN Vel	
RT LMi	
DG Leo	Rosvick, J.M., Scarfe, C.D. 1991, PASP, 103, 628
HD 85091	Latham, D.W., Mazeh, T., Carney, B.W., McCrosky, R.E., Stefanik, R.P., Davis, R.J. 1988, AJ, 96, 567
4 Sex	Mayor, M., Mazeh, T. 1987, AAp, 171, 157
X Leo	Shafter, A.W., Harkness, R.P. 1986, AJ, 92, 658
QX Car	Andersen, J., et al. 1983, AAp, 121, 271
V396 Car	Moffat, A.F.J., Niemela, V.S. 1982, AAp, 108, 326
19 LMi	Batten, A.H., Morbey, C.L. 1980, PASP, 92, 98
V367 Car	
nu Leo	Harmanec, P., Ouhrabka, M., Zdarsky, F. 1985, BAC, 36, 160
DH Leo	Barden, S.C. 1984, AJ, 89, 683
L 101-26	Bragaglia, A., Greggio, L., Renzini, A., D'Odorico, S. 1990, ApJ Lett., 365, L13
BD +18°2304	
XY Leo A	Hrivnak, B.J., Milone, E.F., Hill, G., Fisher, W.A. 1984, ApJ, 285, 683
XY Leo B	Barden, S.C. 1987, ApJ, 317, 333
HD 87059	Gieseking, F. 1981, AAp Suppl., 43, 33
RU LMi	
XZ Leo	

Name	V	B-V	U-B	R-I	E(B-V)	par	Cluster	ADS	Vis Binary	Companions
PG 0900+401	12.87	+0.23	-0.96							
GP Vel	6.76	+0.49	-0.53	+0.26	0.73		Vel OB1?			
UV Lyn	9.416	+0.635	+0.124		0.07					
T Pyx	15.18	+0.30								
IK Vel	8.50									
kap Cnc	5.24	-0.11	-0.43		0.00	0.027			A	7.8v, 0.0003"; 6.1, 0.3"
15 UMa	4.48	+0.27	+0.12	+0.11	0.00					
75 Cnc	5.98	+0.66	+0.20		0.00	0.040			bet pm A	del m=3.1, 112.0"
XY UMa	9.65	+0.85	+0.39							
V357 Car	3.41	-0.19	-0.70	-0.19	0.04		Sco-Cen			
KW Hya	6.106	+0.22	+0.12	+0.12	0.00					
16 UMa	5.13	+0.58	+0.10		0.00	0.047			H V 15 A	
GG Vel	8.72								Hu 1456 A	13.2, 5.3"
HR 3676	5.97	+0.04	+0.05		0.06		UMa			
PG 0917+342	14.1									
AR Cnc										
BF Lyn	7.63	+0.99	+0.76		0.00	0.047				
kap Vel	2.50	-0.18	-0.75	-0.19		0.013				
V377 Car	8.05	+0.05	-0.47				IC 2488?			
EZ Hya	10.52	+0.63								
TU Leo	11.7 B				0.05 m					
DK UMa	4.56	+0.77	+0.34	+0.41		0.042				
S Ant	6.28	+0.33	0.00		0.04	A0.010	Hyades scl			
SU LMi	4.54	+0.92	+0.62	+0.46						
HR 3811	6.76	+0.35	0.00		0.00			7438 A	Cou 2084 A; Sig 13	9.4, 0.29"; 8.0, 24.7"; 8.7, 117.8"
DL UMa	7.55									
AV Hya	10.2 v									
SV LMi	5.39	+0.77	+0.44	+0.37		0.109		7441 A	Hu 1128 A	13.9v, 3.3"
VV UMa	10.13	+0.26								
GW Car	9.58	-0.04	-0.79		0.20					
zet Cha	5.11	-0.14	-0.57	-0.18						
omi Leo	3.52	+0.49	+0.21	+0.23	0.12	0.034		7480 A	H VI 76 A	4.4, 0.004"; 9.9v, 85"
W UMa	7.75	+0.66	+0.08			0.015		7494 A	Es 1825 A	12.35, 6.5"; 9.5V, +0.97, +0.74, 27
HD 84184	7.40							7500 A	Sig 1377 A	10.6, 3.9"
HD 84207	9.22									

Name	V	B-V	U-B	R-I	E(B-V)	par	Cluster	ADS	Vis Binary	Companions
IP Vel	6.15	-0.10	-0.46		0.02				B 1658 A	11.2, 2.1"
DK Hya	10.5 p									
DV UMa	15.4 v								A	1.5"
AA UMa	11.00	+0.60								
KN Vel	6.7 v									
RT LMi	11.4 p									
DG Leo	6.09	+0.25	+0.18		0.07				Kui 44 A	6.9, A8IV, 0.4"
HD 85091	7.62	+0.60	+0.03			0.016				
4 Sex	6.24	+0.48	-0.02		0.00					
X Leo	12.1 v				0.0 u					
QX Car	6.60	-0.17	-0.87		0.050					
V396 Car	8.45	+0.27	+0.04		0.57 u					11.85V, +0.90, 8"
19 LMi	5.14	+0.46	0.00		0.00	0.040				13.1, 7.0"
V367 Car	7.49	-0.02	-0.55							
nu Leo	5.26	-0.04	-0.13			0.018				
DH Leo	7.75	+0.88	+0.43	+0.385		0.0304;	Hyades scl		CHARA 145 A	dK-M, 0.216"
L 101-26	14.60	-0.20	-0.98							
BD +18°2304	9.1 v				0.05 m					
XY Leo A	9.50 D	+1.00	+0.66	+0.57						
XY Leo B	9.50 D	+1.00	+0.66	+0.57						
HD 87059	8.7 B						NGC 3114		LPO 26 A	11.5v, 9.1"
RU LMi	13.8 p				0.07 m					
XZ Leo	10.6 p									

Name	Vbl type	Min I	Min II	D	d	i	r1	r2	II	qph
PG 0900+401										
GP Vel	E+ACYG+XP	6.93	6.90			81.	0.60		0.45 V s	
UV Lyn	EW/KW	9.81	9.78			67.7	0.445	0.333	~1.0 V 0.7022 V	0.526
T Pyx	NR									
IK Vel	EB/DM	8.95				74.5	0.31	0.26	0.92 V	0.26
kap Cnc	ACV:					66.87 pi				
15 UMa						53.45 pi				
75 Cnc						36.84 s				
XY UMa	EB/DW/RS	10.10	9.89			88.2	0.327	0.168	0.930 V	
V357 Car	E:	3.44				51.52 pi				
KW Hya	EA/DM	6.573	6.345			87.65	0.0853	0.0594	0.787 y	
16 UMa						63.49 pi				
GG Vel	EA	9.07				73.5	0.282	0.249	0.90 V	0.22
HR 3676						58.84 s	0.158 ome			
PG 0917+342										
AR Cnc	UG:	(2.0)		[0.058]					0.95 V s*	
BF Lyn	BY					65.79 s				
kap Vel										
V377 Car	EA/DM	8.34				72.5	0.272	0.277	0.85 V	0.33
EZ Hya	EW/KW	11.08	11.02		0.07	85.	0.501	0.301	0.714 bol	0.31
TU Leo	UG:	14.76				57.63 pi				
DK UMa	RS:									
S Ant	EW/KE:	6.92	6.87			69.49	0.431	0.332	0.317 B	0.590
SU LMi	RS:	(0.02)								
HR 3811						72.40 se	0.191 ome			
DL UMa	DSCTC+E									
AV Hya	EB/KE	10.77	10.35		0.023:	72.0	0.414	0.343	0.925 V	
SV LMi	RS:	(0.04)								
VV UMa	EA/SD	10.91	10.26	0.19	0.000	83.60	0.376	0.277	0.9492 V*	0.296
GW Car	EB/KE	(0.55 p)	(0.35 p)			89.93	0.3905	0.3295	0.677 V	0.571
zet Cha	Not Studied									
omi Leo						58.45 s	<=0.43 ome	<=0.43 ome	0.55 s	
W UMa	EW/KW	8.48	8.43		0.037; 0.028	84.90	0.461	0.321	0.637 bol	0.4476
HD 84184										
HD 84207		9.42 R	9.34 R	0.10						

Name	Vbl type	Min I	Min II	D	d	i	r1	r2	II	qph
IP Vel		(0.19 B)				73.3	0.340	0.171	0.952 b	
DK Hya	EB	11.5 p	10.7 p			80.5	0.390	0.295	0.87 p	0.40
DV UMa	UG	18.6 v		[0.097]						
AA UMa	EW/KW	11.58	11.53			80.34	0.3370	0.4413	0.3858 V	1.8157
KN Vel	E	(0.09 v)	(<0.01 v)			73.2	0.307	0.104	0.992 V	
RT LMi	EW/KW	11.7 p	11.7 p			67.	0.444	0.279	0.71 p	0.48
DG Leo	DSCTC					76.81 se	0.099 ome	0.099 ome		
HD 85091										
4 Sex						78.65 se				
X Leo	UGSS	15.81				55.57 w				
QX Car	EA/DM	7.21	7.02	0.06		85.7	0.144	0.136	0.546 y	
V396 Car	ELL					43.03 pi				
19 LMi						20.15 s	0.00 ome		0.70 s	
V367 Car	EB/DM	7.59	7.54			81.	0.18	0.10	0.87 V	0.65
nu Leo										
DH Leo	RS					71.21 s	0.202 ome	0.140 ome		
L 101-26										
BD +18°2304		(0.44 V)								
XY Leo A	EW/KW	9.94	9.85			65.8	0.444	0.323	0.577*	
XY Leo B										
HD 87059										
RU LMi	UG	19.5 p				57.63 pi				
XZ Leo	EW/KE	11.2 p	11.1 p			79.0	0.558	0.223	0.89	0.15

Name	Photometric solution
PG 0900+401	Ferguson, D.H., Green, R.F., Liebert, J. 1984, ApJ, 287, 320
GP Vel	van Paradijs, J., et al. 1977, AAp Suppl., 30, 195; Rappaport, S., et al. 1980, ApJ, 235, 570; Dolan, J.F., Tapia, S. 1988, AAp, 202, 124
UV Lyn	Markworth, N.L., Michaels, E.J., Jr. 1982, PASP, 94, 350
T Pyx	
IK Vel	Svechnikov, M.A., Kuznetsova, E.F. 1990, Katalog Priblizhennykh Fotometricheskikh i Absolyutnykh Elementov Zatmennykh Peremennykh Zvez
kap Cnc	
15 UMa	
75 Cnc	
XY UMa	Budding, E., Zeilik, M. 1987, ApJ, 319, 827
V357 Car	
KW Hya	Andersen, J., Vaz, L.R.R. 1984, AAp, 130, 102
16 UMa	
GG Vel	Svechnikov, M.A., Kuznetsova, E.F. 1990, Katalog Priblizhennykh Fotometricheskikh i Absolyutnykh Elementov Zatmennykh Peremennykh Zvez
HR 3676	
PG 0917+342	
AR Cnc	Howell, S.B., Szkody, P. 1990, 11th N. Am. Wkshp. CVs & LMXRBs
BF Lyn	
kap Vel	
V377 Car	Svechnikov, M.A., Kuznetsova, E.F. 1990, Katalog Priblizhennykh Fotometricheskikh i Absolyutnykh Elementov Zatmennykh Peremennykh Zvez
EZ Hya	Bookmyer, B.B., Kern, J.B. 1988, Critical Observations versus Physical Models of Close Binary Systems, ed. K.C. Leung (New York: Gordon &
TU Leo	
DK UMa	
S Ant	Russo, G., et al. 1982, AAp Suppl., 47, 211
SU LMi	
HR 3811	
DL UMa	
AV Hya	Srivastava, J.B., Kandpal, C.D. 1981, ApSpSci, 76, 173
SV LMi	
VV UMa	Rafert, J.B. 1990, AJ, 100, 1253
GW Car	Buckley, D.A.H. 1984, ApSpSci, 99, 191
zet Cha	
omi Leo	
W UMa	Eaton, J.A. 1986, Acta Astr., 36, 79
HD 84184	
HD 84207	(Williams, D.B., Baldwin, M.E., Kaiser, D.H. 1990, IBVS 3514)

Name	Photometric solution
IP Vel	(Jakate, S.M. 1978, IBVS 1440)
DK Hya	Svechnikov, M.A., Kuznetsova, E.F. 1990, Katalog Priblizhennykh Fotometricheskikh i Absolyutnykh Elementov Zatmennykh Peremennykh Zvez
DV UMa	(Howell, S.B., Mason, K.O., Reichert, G.A., Warnock, A., Kreidl, T.J. 1988, MN, in press)
AA UMa	Wang, Y.-R., Lu, W.-X. 1990, Acta Ap Sin, 10, 248 (Chin. AAp, 14, 389)
KN Vel	(Renson, P. 1983, IBVS 2298)
RT LMi	Svechnikov, M.A., Kuznetsova, E.F. 1990, Katalog Priblizhennykh Fotometricheskikh i Absolyutnykh Elementov Zatmennykh Peremennykh Zvez
DG Leo	
HD 85091	
4 Sex	
X Leo	
QX Car	Andersen, J., et al. 1983, AAp, 121, 271; Gimenez, A., et al. 1986, AAp, 159, 157
V396 Car	(Moffat, A.F.J., Niemela, V.S. 1982, AAp, 108, 326)
19 LMi	
V367 Car	Svechnikov, M.A., Kuznetsova, E.F. 1990, Katalog Priblizhennykh Fotometricheskikh i Absolyutnykh Elementov Zatmennykh Peremennykh Zvez
nu Leo	
DH Leo	
L 101-26	
BD +18°2304	
XY Leo A	Hrivnak, B.J. 1985, ApJ, 290, 696
XY Leo B	
HD 87059	
RU LMi	
XZ Leo	Svechnikov, M.A., Kuznetsova, E.F. 1990, Katalog Priblizhennykh Fotometricheskikh i Absolyutnykh Elementov Zatmennykh Peremennykh Zvez

Name	M1	M2	A	R1	R2	T1	T2	log L1	log L2	Distance	U	V	W
PG 0900+401													
GP Vel	23.09	1.83											
UV Lyn	1.17 s'	0.61 phi								1920. phi			
T Pyx										140. phi			
IK Vel													
kap Cnc	3.31 s	1.91 pi											
15 UMa	1.66 s	0.041 pi								219. s			
75 Cnc	1.07 s	0.85								30.9 s			
XY UMa										25.3 spi			
V357 Car	10.35 s	1.23 pi											
KW Hya	1.97	1.49								166. s			
16 UMa	1.07 s	0.68 pi								86. phi			
GG Vel										16.7 spi			
HR 3676	2.36 s	2.03 s											
PG 0917+342										128. s			
AR Cnc													
BF Lyn	0.77 s	0.75 s											
kap Vel													
V377 Car													
EZ Hya	1.39	0.35											
TU Leo	0.71 p	0.28 p											
DK UMa										225. p			
S Ant	0.79	0.47											
SU LMi										53.7 phi			
HR 3811	1.53 s	1.11 s											
DL UMa										61.6 s			
AV Hya													
SV LMi													
VV UMa	0.97	0.29											
GW Car	22.34 s'	12.75 phi											
zet Cha										3730. phi			
omi Leo	2.11	1.82 s											
W UMa	1.10	0.48								28.6 spi			
HD 84184													
HD 84207													

Name	M1	M2	A	R1	R2	T1	T2	log L1	log L2	Distance	U	V	W
IP Vel	4.07 s	1.60 s											
DK Hya										217. s			
DV UMa													
AA UMa	0.89	1.61											
KN Vel													
RT LMi													
DG Leo	1.95 s	1.94											
HD 85091	1.05 s									92.9 s		-	
4 Sex	1.33 s	1.24 s											
X Leo	1.29 w	0.47								40.9 s			
QX Car	9.25	8.46											
V396 Car	15.84 s	0.59 pi								760. phi			
19 LMi	1.17 s	0.87											
V367 Car										22.9 spi			
nu Leo													
DH Leo	0.85 s	0.57											
L 101-26										27.7 spi			
BD +18°2304	1.20 s	0.00											
XY Leo A	0.88	0.44								117. s			
XY Leo B													
HD 87059													
RU LMi	0.71 p	0.28 p											
XZ Leo										570. p			

Name	Notes
PG 0900+401	del mV=-0.2; T1=31000K
GP Vel	Ome=317°
UV Lyn	(B-V)I,II= +0.64,+0.65
T Pyx	
IK Vel	
kap Cnc	alpCV (5.22-5.27 V); *Prot=5.0035d
15 UMa	
75 Cnc	
XY UMa	RS (del V=0.16)/EB/DW; *Pphtm~~Porb
V357 Car	
KW Hya	del m=1.0 B
16 UMa	
GG Vel	P=2.950432d?
HR 3676	
PG 0917+342	13.1 R
AR Cnc	I1 @ B=18.9; Emission lines dbdl (Szkody, P., Howell, S.B. 1991, BAAS, 23, 943)
BF Lyn	BY
kap Vel	
V377 Car	
EZ Hya	T2-T1=150K
TU Leo	UG:
DK UMa	RS: (del V=0.058)
S Ant	del m=1.3
SU LMi	
HR 3811	
DL UMa	del Sct (del V=0.056, 0.0831d)
AV Hya	
SV LMi	
VV UMa	del m=2.06; *I3=0.0520 V
GW Car	
zet Cha	5.06-5.17V
omi Leo	del m=0.2
W UMa	del m=0.23; T1/T2=0.9606
HD 84184	
HD 84207	(V-R)max= +0.54

Name	Notes
IP Vel	
DK Hya	
DV UMa	UG; Del tecl=12 min
AA UMa	del mB=0.36
KN Vel	EA
RT LMi	
DG Leo	del Sct (Amp 0.04V)
HD 85091	
4 Sex	
X Leo	
QX Car	U=361y
V396 Car	Not a binary; Reported P that of compar * (Manfroid, Gosset, Vreux 1987 AAp, 185, L7)
19 LMi	del mv=0.92
V367 Car	
nu Leo	
DH Leo	Triple system; RS CVn; *Pphtm=1.0665d
L 101-26	T1=34418+/-149K; log g1=7.22+/-0.056 (Liebert, J. 1991, paper presented at the San Diego Workshop on Cataclysmic Variables, San Diego, C
BD +18°2304	cst
XY Leo A	del m=1.24; (B-V)I,II= +1.00,+1.01; Quadruple system; *lam5330; light-time orb: P=20.1y, T=1954.23, a sin i =3.69AU, e=0 (Krzesinski, J
XY Leo B	(see XY Leo A)
HD 87059	
RU LMi	UG
XZ Leo	

Name	RA(1950)	μ(RA)	Dec(1950)	μ(Dec)	Pos Ref	FK4	SRS	AGK3	SAO	GC	l	b
Y Sex	10 00 13.485	-0.03	+01 20 11.57	-1.8	AGK3			+1°1256			238.49	+41.94
ups2 Hya	10 02 41.299	-0.289	-12 49 17.50	+0.95	FK4	1261	31261		155713	13861	252.46	+33.06
CH UMa	10 03 08.870		+67 47 25.95		BFW87						142.81	+42.64
OY Car	10 05 16.87		-69 59 25.5		LG90						289.77	-11.71
HD 88512	10 10 33.128	+0.08	+50 44 39.95	+0.4	AGK3			+50°0839	027566		164.06	+52.11
SW Sex	10 12 37.22		-02 53 35.1		McN86					14030	245.52	+41.68
KO Vel	10 13 57.24		-47 43 12.1								277.88	+07.20
CI UMa	10 14 09.000		+72 10 44.70		BFW87						137.50	+40.59
ST Car	10 14 11.11		-59 57 56.1								284.74	-02.96
RW Sex	10 17 27.328		-08 26 48.92								251.88	+38.72
HP Car	10 17 46.531	-0.05	-57 09 12.71	-1.3	SAO				237917		283.58	-00.35
mu UMa	10 19 21.469	-0.059	+41 45 06.25	-0.61	FK4	396		+41°0998	043310	14232	177.90	+56.36
HR 4072	10 20 33.038	-0.149	+65 49 12.47	-2.53	FK4	387		+65°0520	015163	14260	143.54	+45.22
U Leo	10 21 23.195		+14 15 37.69		D87						226.34	+53.26
HR 4089	10 21 29.101	-0.273	-66 38 53.18	+0.83	FK4Sup	2834	42313		250940	14283	289.10	-08.11
HS Hya	10 22 12.430	-0.32	-18 50 18.55	-4.1	SAO				155964		261.35	+31.67
EX Car	10 23 21.		-63 23 00.		GCVS						287.51	-05.24
V398 Car	10 24 41.42		-58 23 07.9		AC						285.02	-00.90
V348 Car	10 25 07.31		-57 25 13.5								284.56	-00.05
PG 1026+002	10 26 00.9		+00 14 54.		PG						245.32	+46.27
DW UMa	10 30 37.6		+59 02 22.		PG						150.28	+50.41
TX Leo	10 32 24.801	-0.38	+08 54 33.57	-1.1	Per70		42347	+8°1391	118380	14541	236.30	+52.86
LR Hya	10 33 33.052	+0.93	-11 39 01.12	-26.8	Per70		9791		156090	14569	258.40	+38.98
HD 92088	10 34 45.157	-0.09	-59 05 43.32	+0.5	SAO				238249		286.50	-00.85
HD 91948	10 35 04.695	-0.24	+60 23 14.87	-22.3	AGK3			+60°0741	015243	14610	148.09	+50.00
HR 4167	10 35 11.747	-1.51	-47 57 55.48	-2.6	Per70		42355		222199	14614	281.06	+08.87
GM Car	10 35 21.841	-0.25	-58 58 47.08	-1.3	SAO				238265		286.51	-00.71
UV Leo	10 35 40.955	-0.14	+14 31 39.89	+1.3	AGK3			+14°1138	099222		228.69	+56.46
38 LMi	10 36 16.459	-1.862	+38 10 16.49	-4.90	FK4Sup	2852		+38°1073	062178	14634	183.25	+60.29
UZ Leo	10 37 53.919	-0.10	+13 49 41.65	-2.1	AGK3			+13°1061	099244		230.28	+56.60
DV Car	10 38 11.		-59 56 24.		GCVS						287.29	-01.38
DO Leo	10 38 11.4		+15 27 16.		PG						227.71	+57.43
V429 Car	10 39 22.612	-0.06	-59 24 54.64	-0.4	SAO				238353	14707	287.17	-00.85
EZ Car	10 41 02.63		-62 07 48.1		AC						288.64	-03.14
the Car	10 41 10.052	-0.323	-64 07 55.36	+0.78	FK4	406	30406		251083	14755	289.60	-04.90

Name	RA(1950)	μ(RA)	Dec(1950)	μ(Dec)	Pos Ref	FK4	SRS	AGK3	SAO	GC	l	b
DW Car	10 41 15.06		-59 46 26.5								287.55	-01.05
CPD -59°2519	10 41 20.20		-59 35 20.3								287.48	-00.88
HD 93028	10 41 20.257	-0.02	-59 56 18.50	+0.9	SAO				238385		287.64	-01.19
CPD -58°2611	10 41 50.55		-59 17 07.7								287.39	-00.58
HD 93128	10 42 00.906	-0.34	-59 17 05.00	+0.1	SAO				238396	14768	287.41	-00.57
HD 93130	10 42 04.458	-0.08	-59 36 41.58	-0.7	SAO				238400	14772	287.57	-00.86
HD 93161	10 42 12.426	-0.25	-59 18 48.37	+0.5	SAO				238406	14777	287.44	-00.59
CPD -59°2563	10 42 15.45		-59 47 34.6								287.67	-01.01
TX UMa	10 42 24.406	+0.06	+45 49 45.79	+1.4	AGK3			+45°0911	043460	14783	168.14	+58.94
RZ Cha	10 42 26.855	-0.56	-81 46 25.97	-4.8	SAO				258590	14785	298.41	-20.32
QZ Car	10 42 27.048	-0.06	-59 43 49.19	+0.1	SAO				238414	14784	287.67	-00.94
HD 93206B	10 42 27.048	-0.06	-59 43 49.19	+0.1	SAO				238414	14784	287.67	-00.94
HD 93205	10 42 37.396	+0.16	-59 28 28.04	-0.3	SAO				238418		287.57	-00.71
CPD -59°2593	10 42 40.81		-59 45 24.7		AC						287.70	-00.95
CPD -59°2603	10 42 50.86		-59 28 05.1								287.59	-00.69
40 UMa	10 42 52.674	+0.11	+57 11 02.14	+1.1	AGK3			+57°0793	027758	14793	150.98	+52.83
CPD -59°2628	10 43 11.67		-59 25 01.6								287.60	-00.62
CPD -59°2641	10 43 19.94		-59 27 48.8								287.64	-00.65
HD 93403	10 43 46.729	-0.04	-59 08 39.24	0.0	SAO				238445	14815	287.55	-00.34
CPD -59°2655	10 43 50.01		-59 49 24.3		AC						287.86	-00.94
AC Vel	10 44 17.265	+0.04	-56 33 56.09	+1.2	SAO				238458		286.42	+01.98
HR 4220	10 44 39.915	-0.04	-63 59 58.06	+0.2	Per70		42389		251117	14844	289.88	-04.61
HD 93576	10 44 56.97		-59 48 50.8								287.98	-00.87
41 Sex	10 47 47.457	-0.064	-08 37 56.58	-1.82	FK4	1281	31281		137823	14906	259.52	+43.53
EK UMa	10 48 33.6		+54 20 33.								153.87	+55.25
HD 94305	10 49 10.26		-62 01 05.9		AC						289.44	-02.61
AA Vel	10 49 13.366	-0.14	-56 08 41.97	-4.0	SAO				238531		286.84	+02.66
ome UMa	10 51 06.527	+0.445	+43 27 23.92	-2.75	FK4Sup	2870		+43°0987	043512	14974	171.16	+61.35
HH Car	10 51 35.64		-59 11 18.7		AC						288.46	+00.07
V428 Car	10 51 43.77		-59 14 47.2		AC						288.50	+00.02
SX LMi	10 51 45.5		+30 22 48.								199.32	+64.24
EL UMa	10 52 19.0		+37 15 48.								183.69	+63.59
GG Car	10 53 58.015	-0.06	-60 07 30.74	-0.3	SAO				251181		289.13	-00.65
CY UMa	10 54 02.		+49 57 12.		GCVS						159.38	+58.56
AM Leo	10 59 34.162	-0.05	+10 09 53.23	-3.9	AGK3			+10°1379	099413	15158	241.49	+59.02

RA 10h

Name	RA(1950)	μ(RA)	Dec(1950)	μ(Dec)	Pos Ref	FK4	SRS	AGK3	SAO	GC	l	b
DS Leo	10 59 57.200	+1.00	+22 14 13.72	-6.7	AGK3			+22°1213	081639		218.75	+64.78

Name	Bayer	Flmstd	HR	HD	BD	CoD	CPD	Var	Other
Y Sex				87079	+1°2394			Y Sex	358.1934; P 3375
ups2 Hya	ups2 Hya	40 Hya	3970	87504	-12°3073				20H Hya; 194G Hya; CSV 101095; NSV 047
CH UMa								CH UMa	PG 1003+678; SVS 1851; X1003+677 (1ES)
OY Car								OY Car	S 6302
HD 88512				88512	+51°1585				
SW Sex								SW Sex	PG 1012-029
KO Vel								KO Vel	X1013-477 (E, H)
CI UMa								CI UMa	SVS 1755
ST Car				89234		-59°02985	-59°02007	ST Car	158.1906; HV 1270
RW Sex					-7°3007			RW Sex	
HP Car				89714		-56°03287	-56°03131	HP Car	LSS 1495
mu UMa	mu UMa	34 UMa	4069	89758	+42°2115				31H UMa; AFGL 1411; CSV 101121; IRC +
HR 4072			4072	89822	+66°0664				30H UMa; CSV 101122; NSV 04839; Zi 814
U Leo					+14°2239			U Leo	N Leo 1855
HR 4089	L Car		4089	90264		-66°00877	-66°01243		191G Car
HS Hya				90242	-18°2927			HS Hya	BV 701
EX Car				307739			-63°01394	EX Car	
V398 Car				90657		-58°03269	-58°02205	V398 Car	He 3-422; LSS 1568; MR 23; WR 21
V348 Car				90707		-57°03224	-57°03237	V348 Car	LSS 1571
PG 1026+002									PG 1026+002; WD 1026+002
DW UMa								DW UMa	FBS 1031+590; PG 1030+590
TX Leo		49 Leo	4148	91636	+9°2374			TX Leo	16G Leo; 61.1933; Zi 829
LR Hya				91816	-11°2916			LR Hya	
HD 92088				92088		-58°03393	-58°02386		
HD 91948				91948	+60°1274				
HR 4167	p Vel		4167	92139/40		-47°06042	-47°04373		203G Vel
GM Car				92174		-58°03405	-58°02404	GM Car	
UV Leo				92109	+15°2230			UV Leo	363.1934
38 LMi		38 LMi	4168	92168	+38°2166				
UZ Leo					+14°2280			UZ Leo	364.1934; P 3423
DV Car				305460		-59°03202	-59°02401	DV Car	
DO Leo								DO Leo	PG 1038+155
V429 Car			4188	92740		-59°03221	-59°02450	V429 Car	220G Car; CSV 101151; He 3-470; LSS 1761;
EZ Car				93004		-61°02766	-61°01823	EZ Car	
the Car	the Car		4199	93030		-63°00578	-63°01599		223G Car; IC 2602-37

Name	Bayer	Flmstd	HR	HD	BD	CoD	CPD	Var	Other
DW Car				305543		-59°03251	-59°02517	DW Car	LSS 1799
CPD -59°2519				305516		-59°03253	-59°02519		Cr 228-31; LSS 1802
HD 93028				93028		-59°03254	-59°02521		Cr 228-27; LSS 1803
CPD -58°2611						-58°03526	-58°02611		LSS 1814; Tr 14-20
HD 93128				93128		-58°03527	-58°02617		LSS 1820
HD 93130				93130		-59°03279	-59°02556		Cr 228-1; LSS 1825
HD 93161				93161		-58°03531s	-58°02631s		LSS 1832
CPD -59°2563				305536		-59°03284	-59°02563		Cr 228-5; LSS 1834
TX UMa				93033	+46°1659			TX UMa	317.1931
RZ Cha				93486		-81°00391	-81°00467	RZ Cha	BV 473
QZ Car				93206 A		-59°03287A	-59°02572A	QZ Car	227G Car A; Cr 228-33; CSV 6797; LSS 183
HD 93206B				93206 B		-59°03287B	-59°02572B		Cr 228-33; LSS 1839
HD 93205				93205		-59°03294	-59°02587		LSS 1849; X1042-594 (1ES)
CPD -59°2593						-59°03296	-59°02593		Cr 228-36
CPD -59°2603						-59°03303	-59°02603		LSS 1861; Tr 16-104
40 UMa		40 UMa		93075	+57°1290				
CPD -59°2628							-59°02628		LSS 1871; Tr 16-1
CPD -59°2641						-59°03310	-59°02641		LSS 1874; Tr 16-112
HD 93403				93403		-58°03545	-58°02680		LSS 1881
CPD -59°2655				305538			-59°02655		Cr 228-82; LSS 1882
AC Vel				93468		-56°03558	-56°03783	AC Vel	
HR 4220			4220	93549		-63°00593	-63°01649		237G Car; IC 2602-49
HD 93576				93576		-59°03325	-59°02687		Cr 228-93; LSS 1901
41 Sex		41 Sex	4237	93903	-8°3018				12H Sex; 74G Sex
EK UMa								EK UMa	X1048+543 (1E, MS, 1H)
HD 94305				94305					He 3-507; LSS 1970; WR 30
AA Vel				301073		-55°03694	-55°03917	AA Vel	LSS 1968
ome UMa	ome UMa	45 UMa	4248	94334	+43°2058				38H UMa
HH Car				303503			-58°02839	HH Car	197.1937; He 3-516; LSS 2008
V428 Car				94546			-58°02845	V428 Car	He 3-517; LSS 2010; MR 31; WR 31
SX LMi								SX LMi	CBS 31
EL UMa								EL UMa	CBS 132
GG Car				94878		-59°03425	-59°02855	GG Car	AFGL 4118; He 3-526; LSS 2033; MWC 215
CY UMa								CY UMa	SVS 2198
AM Leo					+10°2234A			AM Leo	1.1935; CSV 1692; P 3452

RA 10h

Name	Bayer	Flmstd	HR	HD	BD	CoD	CPD	Var		Other
DS Leo				95650	+22°2302			DS Leo	Gl 410	

Name	Sp1	Sp2	T-JD 2400000	P	e	omel	V0	K1	K2	v1 sin i	v2 sin i
Y Sex	F8V		41766.288	0.4198228	0	-	+9.8	40.0	218.0		
ups2 Hya	B9III-IV			~6.	0	-	+28.	~40.		76	
CH UMa	sdBe	M0V	45827.916	0.3446975	0	-	-3.	38	78		<45.
OY Car	sdBe	M5-6	43993.553839	0.0631209239	0	-	-	30.:		807. e	
HD 88512	A6Vn		39128.867	1.442538	0.063	181.2	-17.90	53.98			
SW Sex	sdBe		44339.650873	0.1349384	0	-	+80.	170		598 Sh; 631 e	
KO Vel	sdBe		45788.441	0.422	0	-	+10.	216			
CI UMa	sdBe			0.0604?							
ST Car	B9.5V	F6IV	44317.7292	0.90164965							
RW Sex	sdBe	(K8V)		0.24486	0	-	-	101		429. a	
HP Car	B2IIIn	(B2III)	24348.182	1.6004464							
mu UMa	M0III	[K6V]	25498.03	230.089	0.061	236.4	-20.4	7.43			
HR 4072	A0[V]pSiSr:H	[F2V]	18468.175	11.57907	0.26	171.0	-2.59	38.9	64.8	15	
U Leo			47235.7374:	0.2674?							
HR 4089	B8V									79:	
HS Hya	F3V	F4V	41374.5954	1.5680420	0.0	-	-8.6	123.4	128.5		
EX Car	G0V	M3IV	23997.641	1.396366							
V398 Car	WN4	O4-6[V]	43919.6	8.255	0.01	-	-35.	202	104	85	
V348 Car	B1III	B(0IV)	39639.36	5.562107	0.057	48.9	-13.8	215.7	199:		
PG 1026+002	DA	M2-3V	46509.7607	0.597298	0	-	+16.2	40.:	176.8 e		
DW UMa	sdBe		46229.00704	0.13660653	0	-	+49.	109.:			
TX Leo	A2V	(F3V)	38843.2801	2.4450566	0.060	295.9	+16.7	62.6		<=39.	
LR Hya	K0V	K0V	46538.18	6.86569	0.014	0.1	+1.2	57.5	57.7	6.*	6.
HD 92088	B8-9II-III		42100.102	1.45245	0	-	-	33.5			
HD 91948	F6V	[K6V]	40244.027	2.7700266	0.000	-	-69.0	55.2			
HR 4167	F4IV	F3[V]	16461.175	10.2104058	0.5077	184.97	+21.17	42.29	49.89	0	
GM Car	B8II-III	(A3)	42099.211	1.53552	0	-	-	79.4			
UV Leo	G0V	G2V	38440.72633	0.60008478	0	-	-21.0	149.7	161.0		
38 LMi	F9V	[M4V]	20165.164	7.7991499	0.023	285.56	+6.05	24.10			
UZ Leo	A7V	A7V	39800.373	0.6180428*							
DV Car	B8	(A9)	23840.321	0.8405							
DO Leo			47225.75578	0.2345147							
V429 Car	WN7	OB[B0.5V]	40728.3	80.3401	0.64	275	-28.	77			
EZ Car	B4III-IV	(B6)	23995.421	1.1886881							
the Car	B0VpHer	[F0V]	43301.921	1.8798349	0	-	+19.0	22.3		151.*	

Name	Sp1	Sp2	T-JD 2400000	P	e	omel	V0	K1	K2	v1 sin i	v2 sin i
DW Car	B1V	B1-2V	29241.997	1.3277504	0	-	-13.	261	278		
CPD -59°2519	B0.5V:b		45448.856	2.1307	0.08	202	-9.	83		80	
HD 93028	O8.5V		45457.079	51.554	0	-	-25.	21		<40.	
CPD -58°2611	O6V		45374.137	4.95	0	-	-32.	20			
HD 93128	O4:V		45369.793	2.799	0.4	326	-36.	30			
HD 93130	O6III(f)		45446.187	14.016	0	-	-13.	69	32.::		
HD 93161	O6.5V((f))		45781.2	5.63	0.25	179	-40.	44		-	
CPD -59°2563	O8.5V		45446.999	2.018	0	-	-16.	31		<40.	
TX UMa	B8V	F6IVealp	44997.0885	3.0632382	0.0144	324.2	-12.9	52.8		130:	80:
RZ Cha	F3/5V	F3/5V	41401.7711	2.832084	0	-	+20.0	108.2	107.6		
QZ Car	O9.5I	(O9.5II-III)	43191.6	5.9981	0.09	35	-34.	255			
HD 93206B	O9III	(B0III)	42520.0	20.73	0.26	134	+7.	47			
HD 93205	O3V	O8V	42532.77	6.08071	0.49	14	+3.	132	360	175	
CPD -59°2593	B0.5:V:	B0.5:V:		~2.	0	-	-77.	~175:	~140		
CPD -59°2603	O7:V:		45777.9	1.81	0.16	144	-19.	160			
40 UMa	A7Vm		30171.568	1.805207	0.014	182	-18.6	48.6	57.1	25	20.:
CPD -59°2628	O9.5Vn		45779.2	5.79	0.08	192	-20.	244	287		
CPD -59°2641	O4.5V((f))		45773.4	4.02	0.23	299	-23.	86			
HD 93403	O5(V)f	O7.5(III)	39562.70	15.093	0.524	348.5	-10.4	82.2	125:	195	
CPD -59°2655	B0Vb			~3.3	0	-	-6.	~25.		165	
AC Vel	B3III/V	B3III/V	29342.594	4.5622426							
HR 4220	B7IV		46165.26	5.4999	0.38	128	+7.	23		201	
HD 93576	O9Vn		45450.042	2.020	0	-	-21.	77		90	
41 Sex	A2/8/F0[V]m	[K2V]	44731.623	6.16694	0.0	-	-4.9	46.6		20	
EK UMa	sdBe			0.07948							
HD 94305	WC6	O6-8[V]	44251.26	18.82	0	-	-62.	195	94		
AA Vel	B2	(B2)	23852.212	2.33432							
ome UMa	A1VpSi	[K8V]	36356.8137	15.8318283	0.314	26.61	-18.44	22.23		49.9	
HH Car	B0III	O8V	41698.660	3.231497	0	-	-2.	247	202		
V428 Car	WN4	O8V	45381.3	4.831	0	-	-41.3	181	80		
SX LMi	sdBe			0.0625							
EL UMa	sdBe										
GG Car	Beq		23281.0	31.030	0.67	236	-143.	66			
CY UMa	sdBe			0.0569:							
AM Leo	F8V	(F8V)	42493.572	0.36579740	0	-	+5.6	116.6	258.6		

RA 10h

Name	Sp1	Sp2	T-JD 2400000	P	e	ome1	V0	K1	K2	v1 sin i	v2 sin i
DS Leo	M2Ve			2.935							

Name	Spectroscopic orbit
Y Sex	McLean, B.J., Hilditch, R.W. 1983, MN, 203, 1
ups2 Hya	Woolley, R., Penston, M.J., Harding, G.A., Martin, W.L., Sinclair, J.E., Haslam, C.M., Aslan, S., Savage, A., Aly, K., Asaad, A.S. 1981, R.
CH UMa	Thorstensen, J.R. 1986, AJ, 91, 940; Friend, M.T., Martin, J.S., Smith, R.C., Jones, D.H.P. 1990, MN, 246, 654
OY Car	Hessman, F.V., Koester, D., Schoembs, R., Barwig, H. 1988, AAp, 213, 167
HD 88512	Woolley, R., Penston, M.J., Harding, G.A., Martin, W.L., Sinclair, J.E., Haslam, C.M., Aslan, S., Savage, A., Aly, K., Asaad, A.S. 1981, R.
SW Sex	Honeycutt, R.K., Schlegel, E.M., Kaitchuk, R.H. 1986, ApJ, 302, 388
KO Vel	Sambrona, R.M., Chiappetti, L., Treves, A., Bonnet-Bidaud, J.M., Bouchet, P., Maraschi, L., Motch, C., Mouchet, M., Van Amerongen, S. 199
CI UMa	
ST Car	
RW Sex	Bolick, U., Beuermann, K., Bruch, A., Lenzen, R. 1987, ApSpSci, 130, 175
HP Car	
mu UMa	Jackson, E.S., et al. 1957, ApJ, 125, 712
HR 4072	Nariai, K. 1976, PASJ, 22, 113
U Leo	
HR 4089	
HS Hya	Popper, D.M. 1971, ApJ, 166, 361
EX Car	
V398 Car	Niemela, V.S., Moffat, A.F.J. 1982, ApJ, 259, 213
V348 Car	Lloyd Evans, T. 1973, MN, 161, 15
PG 1026+002	Saffer, R.A., Foss, D. 1987, unpubl. paper presented IAU Colloq. 95
DW UMa	Shafter, A.W., Hessman, F.V., Zhang, E.H. 1988, ApJ, 327, 248
TX Leo	Chamberlin, C., McNamara, D.H. 1957, PASP, 69, 462
LR Hya	Fekel, F.C., Gillies, K., Africano, J., Quigley, R.C. 1988, AJ, 96, 1426
HD 92088	Gieseking, F. 1981, AAp Suppl., 43, 33
HD 91948	Gorza, W. 1971, JRASC, 65, 277
HR 4167	Evans, D.S. 1969, MN, 142, 523
GM Car	Gieseking, F. 1981, AAp Suppl., 43, 33
UV Leo	Popper, D.M. 1965, ApJ, 141, 126
38 LMi	Ginestet, N., et al. 1974, AAp Suppl., 15, 133
UZ Leo	
DV Car	
DO Leo	
V429 Car	Conti, P.S., Niemela, V.S., Walborn, N.R. 1979, ApJ, 228, 206
EZ Car	
the Car	(Walborn, N.R. 1979, PASP, 91, 442; Walker, H.J., Hill, P.W. 1985, AAp Suppl., 61, 303; Campbell, W.W., Moore, J.H. 1928, Pub. Lick O

Name	Spectroscopic orbit
DW Car	Ferrer, O.E., Niemela, V.S., Méndez, R.H., Levato, H., Morrell, N. 1985, Rev. Mex. Astr. Astrofis., 10, 323
CPD -59°2519	Levato, H., Malaroda, S., García, B., Morrell, N., Solivella, G. 1990, ApJ Suppl., 72, 323
HD 93028	Levato, H., Malaroda, S., García, B., Morrell, N., Solivella, G. 1990, ApJ Suppl., 72, 323
CPD -58°2611	Levato, H., Malaroda, S., García, B., Morrell, N., Solivella, G., Grosso, M. 1991, ApSpSci, 183, 147
HD 93128	Levato, H., Malaroda, S., García, B., Morrell, N., Solivella, G., Grosso, M. 1991, ApSpSci, 183, 147
HD 93130	Levato, H., Malaroda, S., García, B., Morrell, N., Solivella, G. 1990, ApJ Suppl., 72, 323
HD 93161	Levato, H., Malaroda, S., Morrell, N., García, B., Hernández, C. 1991, ApJ Suppl., 75, 869
CPD -59°2563	Levato, H., Malaroda, S., García, B., Morrell, N., Solivella, G. 1990, ApJ Suppl., 72, 323
TX UMa	Hric, L., Komzík, R., Grygar, J. 1990, ApSpSci, 169, 241
RZ Cha	Andersen, J., Gjerloff, H., Imbert, M. 1975, AAp, 44, 349
QZ Car	Morrisson, N.D., Conti, P.S. 1980, ApJ, 239, 212
HD 93206B	Morrisson, N.D., Conti, P.S. 1980, ApJ, 239, 212
HD 93205	Levato, H., Malaroda, S., Morrell, N., García, B., Hernández, C. 1991, ApJ Suppl., 75, 869; Conti, P.S., Walborn, N.R. 1976, ApJ, 207, 502
CPD -59°2593	Levato, H., Malaroda, S., García, B., Morrell, N., Solivella, G. 1990, ApJ Suppl., 72, 323
CPD -59°2603	Levato, H., Malaroda, S., Morrell, N., García, B., Hernández, C. 1991, ApJ Suppl., 75, 869
40 UMa	Hube, D.P. 1989, JRASC, 83, 26
CPD -59°2628	Levato, H., Malaroda, S., Morrell, N., García, B., Hernández, C. 1991, ApJ Suppl., 75, 869
CPD -59°2641	Levato, H., Malaroda, S., Morrell, N., García, B., Hernández, C. 1991, ApJ Suppl., 75, 869
HD 93403	Thackeray, A.D., Emerson, B. 1969, MN, 142, 429
CPD -59°2655	Levato, H., Malaroda, S., García, B., Morrell, N., Solivella, G. 1990, ApJ Suppl., 72, 323
AC Vel	
HR 4220	García, B., Hernández, C., Malaroda, S., Morrell, N., Levato, H. 1988, ApSpSci, 148, 163
HD 93576	Levato, H., Malaroda, S., García, B., Morrell, N., Solivella, G. 1990, ApJ Suppl., 72, 323
41 Sex	Worek, T.F., Zizka, E.R., King, M.W., Beardsley, W.R. 1986, PASP, 98, 238
EK UMa	
HD 94305	Niemela, V.S., Mendez, R.H., Moffat, A.F.J. 1983, ApJ, 272, 190
AA Vel	
ome UMa	Hric, L. 1987, Pub. Astr. Inst. Czech. Acad. Sci., 70, 321
HH Car	Mandrini, C.H., Mendez, R.H., Ferrer, O.E., Niemela, V.S. 1985, Rev. Mex. Astr. Ap., 11, 99
V428 Car	Niemela, V.S., Mandrini, C.H., Mendez, R.H. 1985, Rev. Mex. Astr. Ap., 11, 143
SX LMi	
EL UMa	
GG Car	Hernandez, C.A., Lopez, L., Sahade, J., Thackeray, A.D. 1981, PASP, 93, 747
CY UMa	
AM Leo	Hrivnak, B.J. 1990, Pacific Rim Colloquium on New Frontiers in Binary Star Research

Name

DS Leo

Spectroscopic orbit

Name	V	B-V	U-B	R-I	E(B-V)	par	Cluster	ADS	Vis Binary	Companions
Y Sex	9.83	+0.47	-0.02							
ups2 Hya	4.60	-0.09	-0.27	-0.09						
CH UMa	11.0 v									
OY Car	12.53	-0.01	-0.83		0.0 u					
HD 88512	6.63 v									
SW Sex	14.29	+0.11	-0.76		0.0 u					
KO Vel	17.82	-0.07	-1.02	+0.34	0.0 u					
CI UMa	13.8 p				0.08 m					
ST Car	9.576	+0.100	+0.002							
RW Sex	10.66	-0.04	-0.74	+0.01	0.00 u	0.0092:				
HP Car	8.81	+0.18	-0.74				Car OB1?		phi 162 A	9.1, 0.4"
mu UMa	3.05	+1.59	+1.89	+0.96	0.03	0.035				
HR 4072	4.97	-0.06	-0.13	-0.06	0.00	0.043				
U Leo	17.3	+0.4	-0.1							
HR 4089	4.99	-0.13	-0.51							
HS Hya	8.07	+0.43	-0.07		0.00					
EX Car	10.0 p									
V398 Car	9.77	+0.30	+0.13		0.54 u		(Car OB1)			
V348 Car	8.55	+0.28	-0.60		0.58		Car OB1?			
PG 1026+002	13.83									
DW UMa	14.50	+0.06	-0.88		0.0 u					
TX Leo	5.66	+0.05	+0.05		0.00	D0.005		7837 A	Sig 1450 A	7.7, 0.0005"; 8.5v, 2.4"
LR Hya	8.04	+0.85	+0.50	+0.41C		0.029				
HD 92088	8.3 B									
HD 91948	7.37 p				0.02 m			7855 A	OSig 222 A	11.0, 4.4"
HR 4167	3.84 D	+0.30	+0.07	+0.16	0.00	0.040; D0.029			lam 119 A (orb)	5.1, A6V, 0.380"
GM Car	9.11									
UV Leo	8.866	+0.63	+0.08							
38 LMi	5.85	+0.57	+0.17		0.00	0.020				
UZ Leo	9.58	+0.37								
DV Car	10.0 p									
DO Leo	16.0 B									
V429 Car	6.40	+0.05	-0.04		0.28		Car OB1			
EZ Car	9.52 p									
the Car	2.76	-0.22	-1.01	-0.23	0.08		IC 2602			

Name	V	B-V	U-B	R-I	E(B-V)	par	Cluster	ADS	Vis Binary	Companions
DW Car	10.03 p				0.33 m		Cr 228?			
CPD -59°2519	9.87	+0.06	-0.77				Cr 228			
HD 93028	8.36	-0.06	-0.89				Cr 228			
CPD -58°2611	9.61	+0.28	-0.73				Tr 14			
HD 93128	8.84	+0.25	-0.74				Tr 14		CorO 112 A	11.2, B, 6.6"
HD 93130	8.04	+0.27	-0.71				Cr 228		h 4357 A	12.5v, 11.9"
HD 93161	7.82	+0.21	-0.69				Tr 16		h 4360 A	9.1, 2.0"; ft, 7.7"; 7.82, +0.17, -0.7
CPD -59°2563	8.94	+0.05	-0.82				Cr 228			
TX UMa	7.06	-0.04	-0.36		0.00					
RZ Cha	8.03	+0.47								
QZ Car	6.23 D	+0.13	-0.84		0.42		Cr 228		del 8 Aa	del m=0.6; 13v, 7"; ft, 9"
HD 93206B	6.23 D	+0.13	-0.84		0.42		Cr 228		del 8 Ab	del m=-0.6; 13v, 7"; ft, 9"
HD 93205	7.75	+0.06	-0.92	+0.10			Tr 16		BrsO 4 A	9.2, 18.7"
CPD -59°2593	10.23	+0.10	-0.62				Cr 228			
CPD -59°2603	8.77	+0.14	-0.78	+0.17			Tr 16			
40 UMa	7.11	+0.31	+0.07	+0.10						
CPD -59°2628	9.53	+0.10	-0.81	+0.20			Tr 16		h 4366 G	7.8 (eta Car), 38.5"
CPD -59°2641	9.29	+0.32	-0.71	+0.43			Tr 16			
HD 93403	7.26	+0.21	-0.75		0.53		Tr 16			
CPD -59°2655	10.53	+0.25	-0.53				Cr 228		Jsp 430 A	13.0v, 2.4"
AC Vel	8.6 v									
HR 4220	5.23	-0.07	-0.47				IC 2602		phi 364 A	del m=0.1, 0.1"
HD 93576	9.57	+0.25	-0.69				Cr 228			
41 Sex	5.80	+0.16	+0.13	+0.07	0.00			7942 A	h 838 A	11.6, 27.3"
EK UMa	~18.				0.07 m					
HD 94305	11.81	+0.37	+0.17		0.57 u					
AA Vel	9.68 B									
ome UMa	4.71	-0.05	-0.05	-0.04	0.00	0.014				
HH Car	10.30 D	+0.44	-0.61		0.71		Car OB1?			13.0, 5"; 11.11, F0-2II, 13"; 12.65, 1
V428 Car	10.65	+0.28	+0.18		0.67 u		(Car OB1)			
SX LMi	16.0 p									
EL UMa	14. B									
GG Car	8.8	+0.56	-0.76				<Car OB1>; <Car OB2>			
CY UMa	12.3 v				0.06 m					
AM Leo	9.25	+0.53	-0.01		0.00			8024 A	Sig 1503 A	10.64V, +0.67, +0.15, 11.3"

RA 10h

Name	V	B-V	U-B	R-I	E(B-V)	par	Cluster	ADS	Vis Binary	Companions
DS Leo	9.52	+1.47				0.086				

Name	Vbl type	Min I	Min II	D	d	i	rI	r2	II	qph
Y Sex	EW/KW	10.21	10.17		; 0.05	76.8	0.532	0.243	0.8355 V	0.1748
ups2 Hya	-									
CH UMa	UG	15.26						<0.39 ome		
OY Car	UGSU+E	17. B		[0.0506]						
HD 88512										
SW Sex	E/WD+NL	16.7 B		[0.088]						
KO Vel	NL+X									
CI UMa	UG	>17.5 p				57.63 pi				
ST Car	EB/SD	10.743	9.856			85.25	0.376	0.329	0.866 V	0.537
RW Sex	NL+ZZ:					34.86 p				
HP Car	EA/DM	9.3	9.3	0.12		84.5	0.34	0.34	0.50 V	1.0
mu UMa	E:					53.65 pi				
HR 4072	ACV:					44.10 s	0.11 ome			
U Leo	N:									
HR 4089										
HS Hya	EA/D	8.61	8.55	0.10		85.4	0.170	0.1583	0.526	
EX Car	EA/SD	11.5 p		0.14		85.	0.203	0.279	0.89 p	0.33
V398 Car	E	9.725				56.5 P	0.278 ome			
V348 Car	EB	8.93	8.9			63.	0.371	0.362	0.389 bol	
PG 1026+002						>45.				
DW UMa	EA	16.04		[0.073]						
TX Leo	EA/DM	5.75	5.69	0.08		66.8	0.293	0.176	0.8900 V	
LR Hya	BY						0.024 ome	0.05 ome		
HD 92088										
HD 91948						60.48 pi				
HR 4167						35.63 s	0.00 ome			
GM Car	EB/KE	>9.39	9.22			>79.	0.449	0.188	0.93 V	0.47
UV Leo	EA/DW	10.18 B	10.10 B	0.18	0.014	83.32	0.304	0.292	0.534y	
38 LMi						57.19 pi				
UZ Leo	EW/KE	10.15	10.12			74.5	0.43	0.32	0.79	0.49
DV Car	EA/KE:	10.3 p				65.	0.462	0.292	0.94 p	0.40
DO Leo	NL	17.5		[0.069]						
V429 Car	EA/WR	(0.00:)	(0.071 b)	0;<~0.012		47.19 s				
EZ Car	EA/KE	10.00 p	9.85 p	0.20	<0.016	74.	0.416	0.334	0.74 p	0.64
the Car						42.97 pi				

Name	Vbl type	Min I	Min II	D	d	i	rI	r2	II	qph
DW Car	EA/KE	10.32 p	10.28 p			85.5	0.310	0.295	0.554 bol	
CPD -59°2519										
HD 93028										
CPD -58°2611										
HD 93128										
HD 93130										
HD 93161										
CPD -59°2563										
TX UMa	EA/SD	8.80	7.13	0.12	0.000	81.49	0.153	0.284	0.80 V	0.347
RZ Cha	EA/DM	8.46	8.43	0.11; 0.11		82.9	0.178	0.190	0.347 y	
QZ Car	EB	6.49	6.43			85.9	0.333	0.182	0.380*	
HD 93206B						19.97 s				
HD 93205							0.150 ome			
CPD -59°2593										
CPD -59°2603										
40 UMa							0.24 ome	0.19: ome	0.69 s	
CPD -59°2628										
CPD -59°2641										
HD 93403						25.58 s	0.362 ome			
CPD -59°2655										
AC Vel	EB/DM	9.11	9.11			85.5	0.259	0.259	0.50 B	1.0
HR 4220										
HD 93576										
41 Sex						64.06 pi				
EK UMa	XM	19.5				56.:				
HD 94305						69.28 s				
AA Vel	EB/DM	9.9 B	10.3 B			76.0	0.282	0.282	0.50 B	1.0
ome UMa										
HH Car	EA/DM	10.82	10.66	0.18	0.02	81.5	0.368	0.210	0.695 V	
V428 Car	E:/WR					74. P				
SX LMi										
EL UMa	UG:	19. B								
GG Car	EB/GS	(0.29 p)	(0.00 p)							
CY UMa	UG	17. p				57.63 pi				
AM Leo	EW/KW	9.83	9.83			87.0	0.4642	0.3158	0.6592	0.426

Name	Vbl type	Min I	Min II	D	d	i	r1	r2	II	qph
DS Leo	BY	9.57								

Name	Photometric solution
Y Sex	Hill, G. 1979, Pub. DAO, 15, 297
ups2 Hya	
CH UMa	
OY Car	Wood, J.H., Horne, K., Berriman, G., Wade, R. 1989, ApJ, 341, 974
HD 88512	
SW Sex	(Penning, W.R., Ferguson, D.H., McGraw, J.T., Liebert, J.W., Green, R.F. 1984, ApJ, 276, 233)
KO Vel	
CI UMa	
ST Car	Walker, R.L., Chambliss, C.R. 1990, AJ, 100, 233
RW Sex	
HP Car	Svechnikov, M.A., Kuznetsova, E.F. 1990, Katalog Priblizhennykh Fotometricheskikh i Absolyutnykh Elementov Zatmennykh Peremennykh Zvez
mu UMa	
HR 4072	
U Leo	
HR 4089	
HS Hya	Giuricin, G., et al. 1980, AAp, 85, 259
EX Car	Svechnikov, M.A., Kuznetsova, E.F. 1990, Katalog Priblizhennykh Fotometricheskikh i Absolyutnykh Elementov Zatmennykh Peremennykh Zvez
V398 Car	Moffat, A.F.J., Seggewiss, W. 1987, Messenger, No. 49, p. 26
V348 Car	Hilditch, R.W., Lloyd Evans, T. 1985, MN, 213, 75
PG 1026+002	Saffer, R.A., Foss, D. 1987, unpubl. paper presented IAU Colloq. 95
DW UMa	(Shafter, A.W., Hessman, F.V., Zhang, E.H. 1988, ApJ, 327, 248)
TX Leo	Srivastava, J.B., Kandpal, C.D. 1968, BAC, 19, 381
LR Hya	
HD 92088	
HD 91948	
HR 4167	
GM Car	Svechnikov, M.A., Kuznetsova, E.F. 1990, Katalog Priblizhennykh Fotometricheskikh i Absolyutnykh Elementov Zatmennykh Peremennykh Zvez
UV Leo	Botsula, R.A. 1978, Izv. Astr. Engelhardt Obs., 44, 170
38 LMi	
UZ Leo	Lafta, S.J., Grainger, J.F. 1986, ApSpSci, 127, 153
DV Car	Svechnikov, M.A., Kuznetsova, E.F. 1990, Katalog Priblizhennykh Fotometricheskikh i Absolyutnykh Elementov Zatmennykh Peremennykh Zvez
DO Leo	(Abbott, T.M.C., Shafter, A.W., Wood, J.H., Tomaney, A.B., Haswell, C.A. 1990, PASP, 102, 558)
V429 Car	(Gosset, E., Remy, M., Manfroid, J., Vreux, J.-M., Sterken, C., Balona, L.A., Franco, G.A.P. 1991, IBVS 3571)
EZ Car	Svechnikov, M.A., Kuznetsova, E.F. 1990, Katalog Priblizhennykh Fotometricheskikh i Absolyutnykh Elementov Zatmennykh Peremennykh Zvez
the Car	

Name	Photometric solution
DW Car	Clausen, J.V. 1988, Paper presented at session 42/2, XX Gen Assembly IAU
CPD -59°2519	
HD 93028	
CPD -58°2611	
HD 93128	
HD 93130	
HD 93161	
CPD -59°2563	
TX UMa	Hill, G., Hutchings, J.B. 1973, ApSpSci, 20, 173
RZ Cha	Giuricin, G., Mardirossian, F., Mezzetti, M., Predolin, F. 1980, AAp, 85, 259
QZ Car	Leung, K.-C., Moffat, A.F.J., Seggewiss, W. 1979, ApJ, 231, 742
HD 93206B	
HD 93205	
CPD -59°2593	
CPD -59°2603	
40 UMa	
CPD -59°2628	
CPD -59°2641	
HD 93403	
CPD -59°2655	
AC Vel	Svechnikov, M.A., Kuznetsova, E.F. 1990, Katalog Priblizhennykh Fotometricheskikh i Absolyutnykh Elementov Zatmennykh Peremennykh Zvez
HR 4220	
HD 93576	
41 Sex	
EK UMa	Morris, S.L., et al. 1987, ApJ, 314, 641
HD 94305	
AA Vel	Svechnikov, M.A., Kuznetsova, E.F. 1990, Katalog Priblizhennykh Fotometricheskikh i Absolyutnykh Elementov Zatmennykh Peremennykh Zvez
ome UMa	
HH Car	Söderhjelm, S. 1975, AstrAp Suppl., 22, 263
V428 Car	Moffat, A.F.J., Seggewiss, W. 1989, Recent Developments Magellanic Clouds Research (Paris), p. 97
SX LMi	
EL UMa	
GG Car	(Gaposchkin, S. 1953, Ann. Harvard Obs., 113, 67)
CY UMa	
AM Leo	Binnendijk, L. 1984, PASP, 96, 646

RA 10h

Name

DS Leo

Photometric solution

Name	M1	M2	A	R1	R2	T1	T2	log L1	log L2	Distance	U	V	W
Y Sex	0.68	0.126											
ups2 Hya													
CH UMa													
OY Car													
HD 88512	1.74 s												
SW Sex													
KO Vel													
CI UMa	0.71 p	0.28 p								561. p			
ST Car													
RW Sex	0.89 p	0.81 p								284. p			
HP Car													
mu UMa	3.02 s	0.63 pi								35.0 spi			
HR 4072	2.24 s	1.34								53.6 spi			
U Leo													
HR 4089													
HS Hya	1.34	1.28								106. phi			
EX Car													
V398 Car	14.36	27.90											
V348 Car	27.75	30.08								4560. phi			
PG 1026+002													
DW UMa													
TX Leo	2.09 s	0.89								132. phi			
LR Hya													
HD 92088													
HD 91948	1.17 s	0.62 pi								41.5 s			
HR 4167	1.45 s	1.23 s								28.5 spi			
GM Car	1.75	0.82											
UV Leo	0.99	0.92											
38 LMi	1.07 s	0.34 pi											
UZ Leo													
DV Car													
DO Leo													
V429 Car	15.84 s	16.66 del								2510. g			
EZ Car													
the Car	19.95 s	1.46 pi								201. s			

Name	M1	M2	A	R1	R2	T1	T2	log L1	log L2	Distance	U	V	W
DW Car	11.21	10.53								4470. phi			
CPD -59°2519													
HD 93028													
CPD -58°2611													
HD 93128													
HD 93130													
HD 93161													
CPD -59°2563													
TX UMa	2.09	0.73											
RZ Cha	1.50	1.51											
QZ Car	43.65 s	42.38								2710. phi			
HD 93206B	30.90 s	25.12 s								2710. phi			
HD 93205													
CPD -59°2593													
CPD -59°2603													
40 UMa													
CPD -59°2628													
CPD -59°2641													
HD 93403	64.57 s	42.46 s								2630. g			
CPD -59°2655													
AC Vel													
HR 4220													
HD 93576													
41 Sex	1.58 s	0.80 pi								47.0 s			
EK UMa	0.53 p	0.182 p								770. s			
HD 94305	18.75	38.90 s											
AA Vel													
ome UMa										52.8 s			
HH Car	14.09	17.23								4850. phi			
V428 Car	3.07	6.95											
SX LMi													
EL UMa													
GG Car													
CY UMa	0.71 p	0.28 p											
AM Leo	1.39	0.62											

Name	M1	M2	A	R1	R2	T1	T2	log L1	log L2	Distance	U	V	W
DS Leo													

Name	Notes
Y Sex	
ups2 Hya	
CH UMa	
OY Car	UGSU+E; del B(ecl)=1.48-2.47; Twd=15000K
HD 88512	
SW Sex	
KO Vel	DQ; mag K=15.76
CI UMa	UG
ST Car	
RW Sex	
HP Car	B2IIIn+(B2III), i=69.3, r1=0.421, r2=0.421, l1=0.500 (lc: Hertzsprung, E. 1940, BAN, 9, 63)
mu UMa	
HR 4072	
U Leo	N?; del mR=0.108 (ell)
HR 4089	P=0.9445d, 1.0565d, or 17.7d; He vbl?
HS Hya	del m~0.2
EX Car	
V398 Car	
V348 Car	
PG 1026+002	
DW UMa	
TX Leo	del m=2.4
LR Hya	*Pphtm=3.1448d
HD 92088	
HD 91948	
HR 4167	Vis. orb: P=16.50y, T=1986.12, a=0.380", e=0.762, i=124.6°, ome=285.6°, Ome=31.4° (Heintz, W.D. 1991, AAp Sup, 90, 311)
GM Car	
UV Leo	del m=0.04 y
38 LMi	
UZ Leo	*+2.8x10-12 E2
DV Car	
DO Leo	UG?; ecl.
V429 Car	Eclipsing; only Min II present
EZ Car	B4III-IV+(A0III), i=79.25, r1=0.360, r2=0.324, l1=0.784 v, q=0.5211 (lc: Gaposchkin, S.I. 1953, Ann. Harvard Obs., 113, 67)
the Car	*Prot=0.7045d

Name	Notes
DW Car	
CPD -59°2519	
HD 93028	
CPD -58°2611	
HD 93128	
HD 93130	
HD 93161	
CPD -59°2563	
TX UMa	del m=2.4
RZ Cha	
QZ Car	*l3=0.489
HD 93206B	
HD 93205	
CPD -59°2593	
CPD -59°2603	
40 UMa	del m=0.88
CPD -59°2628	
CPD -59°2641	
HD 93403	
CPD -59°2655	
AC Vel	
HR 4220	
HD 93576	
41 Sex	
EK UMa	AM
HD 94305	
AA Vel	EB/DM
ome UMa	
HH Car	
V428 Car	
SX LMi	UX; Emission lines dbld (Szkody, P., Howell, S.B. 1991, BAAS, 23, 943)
EL UMa	
GG Car	
CY UMa	UG
AM Leo	

RA 10h

Name		Notes
DS Leo	BY	

Name	RA(1950)	μ(RA)	Dec(1950)	μ(Dec)	Pos Ref	FK4	SRS	AGK3	SAO	GC	l	b
HD 95638	11 00 17.684	-1.50	+61 55 28.35	-6.9	AGK3			+61°0717	015379	15179	143.00	+51.06
LL Vel	11 01 30.584	-2.28	-51 04 59.71	+0.7	SAO				238720	15212	286.34	+08.01
AN UMa	11 01 35.61		+45 19 26.4		W83						165.79	+62.13
AP Leo	11 02 29.464	+0.72	+05 25 21.48	-6.6	AGK3			+5°1590	118649		249.12	+56.47
ST LMi	11 02 58.5		+25 22 42.								211.80	+66.21
chi2 Hya	11 03 31.885	+0.25	-27 01 02.10	-2.1	Per70		42445		179522	15260	275.82	+29.97
QU Car	11 03 49.62		-68 21 44.8		LG90						293.51	-07.72
V385 Car	11 04 18.018	+0.16	-65 14 21.13	-0.9	SAO				251264	15280	292.32	-04.83
IR Car	11 06 58.		-59 24 06.		GCVS						290.34	+00.67
V431 Car	11 07 56.867	+0.05	-60 42 27.02	+0.4	SAO				251296		290.95	-00.49
BM UMa	11 08 30.		+46 42		GCVS						161.94	+62.40
EM Car	11 09 56.419	+0.11	-60 49 23.03	+0.1	SAO				251312		291.22	-00.50
EN Car	11 10 00.		-60 27 06.		GCVS						291.08	-00.16
TT Hya	11 10 45.689	-0.15	-26 11 34.26	+1.1	Per70		10197		179648	15424	277.08	+31.43
AS Cen	11 10 54.		-56 51 24.		GCVS						289.86	+03.23
V436 Cen	11 11 36.87		-37 24 26.3		L85						282.42	+21.28
GL Car	11 12 30.44		-60 23 13.1								291.34	+00.02
HD 97950	11 12 57.80		-60 59 16.2								291.62	-00.52
SV Crt	11 14 26.026	-0.061	-06 51 41.86	+0.30	FK4Sup	2900	42474		138106	15514	265.81	+48.81
DP Leo	11 14 38.07		+18 14 05.1								230.90	+66.46
xi UMa	11 15 31.120	-1.07	+31 48 37.87	-10.7	SAO				062485	15537	195.08	+69.25
55 UMa	11 16 24.722	-0.493	+38 27 36.38	-7.40	FK4	1293		+38°1118	062491	15558	177.34	+67.74
SZ Crt	11 18 56.573	+1.33	-20 10 41.13	-13.9	SAO				179801		276.00	+37.67
V779 Cen	11 19 01.9		-60 20 57.								292.09	+00.34
V685 Cen	11 22 09.703	-0.02	-57 27 10.71	+0.5	SAO				239043		291.50	+03.20
V442 Cen	11 22 25.		-35 37 18.		GCVS						283.88	+23.75
MN Cen	11 25 46.872	-0.08	-61 08 08.32	+0.3	SAO				251415		293.13	-00.14
AW UMa	11 27 25.619	-0.652	+30 14 35.79	-18.75	FK4Sup	2916	42508	+30°1141	062579	15772	199.10	+71.93
HD 100018A	11 28 07.900	+0.66	+41 33 50.35	-10.4	AGK3			+41°1055	043789	15787	167.20	+68.23
TU Mus	11 28 56.052	-0.66	-65 27 59.47	-2.1	SAO				251436		294.80	-04.14
90 Leo	11 32 06.389	-0.14	+17 04 23.44	-1.1	AGK3			+17°1227	099673	15874	239.18	+69.47
TT Crt	11 32 14.98		-11 28 53.1								274.86	+46.89
CoD -37°7355	11 33 48.240	-0.69	-37 45 33.32	-0.5	SAO				202618		286.99	+22.50
DF UMa	11 34 42.34		+47 44 23.8								153.46	+65.07
RZ Leo	11 34 48.49		+02 05 34.6		D87						264.78	+59.09

Name	RA(1950)	μ(RA)	Dec(1950)	μ(Dec)	Pos Ref	FK4	SRS	AGK3	SAO	GC	l	b
LW Cen	11 35 11.924	+0.08	-63 04 14.28	+1.5	SAO				251495		294.76	-01.65
T Leo	11 35 53.01	-0.45	+03 38 46.9	-6.0	(W83)						263.47	+60.53
BH Cen	11 36 49.17		-63 08 37.5		AC						294.95	-01.67
TV Mus	11 37 34.		-64 32		GCVS						295.41	-02.99
V752 Cen	11 40 18.375	-0.65	-35 32 17.06	-1.4	SAO				202729		287.62	+25.01
V346 Cen	11 40 26.17		-62 09 26.2								295.10	-00.61
DO Dra	11 40 48.88		+71 57 58.5		McN86						130.30	+44.46
MP Cen	11 41 21.54		-61 27 56.7								295.01	+00.08
CE Leo	11 41 27.		+23 37		GCVS						223.18	+74.31
V838 Cen	11 42 11.027	-1.31	-49 08 21.42	-6.3	SAO				222993		291.92	+12.02
TW Vir	11 42 47.73	+0.13	-04 09 24.9	-3.8	(W83)						273.59	+54.63
BL Leo	11 42 57.		+25 03		GCVS						218.28	+75.01
V830 Cen	11 45 02.3		-61 40 33.								295.49	-00.01
SV Cen	11 45 30.48		-60 17 16.0								295.21	+01.35
V801 Cen	11 45 33.632	-0.02	-61 55 43.90	+1.2	SAO				251595		295.61	-00.24
HR 4535	11 46 39.843	+0.37	+16 31 18.60	-6.8	Per70		42574	+16°1224	099812	16192	246.81	+71.94
LZ Cen	11 48 04.320	-0.15	-60 30 56.21	-1.5	SAO				251606		295.57	+01.20
GQ Mus	11 49 35.08		-66 55 38.9		D87						297.21	-05.00
BC UMa	11 49 38.2		+49 31 36.								146.28	+65.13
VZ Cen	11 49 59.812	+0.19	-61 14 45.12	+1.1	SAO				251619		295.96	+00.55
DN UMa	11 52 29.996	-0.01	+46 45 18.12	+0.4	SAO				043945	16296	149.12	+67.68
95 Leo	11 53 06.284	+0.062	+15 55 30.08	-0.39	FK4	1308	31308	+15°1269	099869	16311	251.67	+72.70
HR 4590	11 58 17.520	-0.102	-19 22 50.49	+0.25	FK4Sup	2961	42606		157042	16423	286.92	+41.63
AG Vir	11 58 29.742	-0.07	+13 17 13.09	-2.2	AGK3			+13°1196	099908		260.57	+71.61

Name	Bayer	Flmstd	HR	HD	BD	CoD	CPD	Var	Other
HD 95638				95638	+62°1160				X1100+619 (MS)
LL Vel				96008		-50°05641	-50°03903	LL Vel	245G Vel
AN UMa								AN UMa	PG 1101+453; S 7738; X1101+453 (EXO)
AP Leo					+5°2439			AP Leo	BV 366
ST LMi								ST LMi	CW 1103+254
chi2 Hya	chi2 Hya		4317	96314		-26°08342	-26°04440	chi2 Hya	265G Hya; BV 722; CSV 6814
QU Car				310376		-67°01010	-67°01645	QU Car	
V385 Car				96548		-64°00520	-64°01629	V385 Car	CSV 102659; He 3-576; LSS 2154; MR 34; N
IR Car								IR Car	
V431 Car				97152		-60°03396	-60°02578	V431 Car	He 3-603; LSS 2198; MR 36; WR 42
BM UMa								BM UMa	CSV 6822; S 7742
EM Car				97484		-60°03419	-60°02638	EM Car	LSS 2232
EN Car				306180		-60°03420	-60°02640	EN Car	
TT Hya				97528		-25°08531	-25°04711	TT Hya	28.1926; MWC 860; X1110-261 (MS)
AS Cen								AS Cen	
V436 Cen								V436 Cen	HV 10120; X1111-374 (1ES)
GL Car				306168		-59°03630	-59°03241	GL Car	LSS 2268
HD 97950				97950		-60°03452	-60°02732		LSS 2275; MR 38; WR 43
SV Crt			4369	98088	-6°3344			SV Crt	21G Crt; CSV 6830
DP Leo								DP Leo	X1114+182 (E, MS)
xi UMa	xi UMa B	53 UMa B	4374	98230	+32°2132			xi UMa	47H UMa B; Gl 423B; IRC +30229; NSV 05
55 UMa		55 UMa	4380	98353	+38°2225				48H UMa
SZ Crt				98712	-19°3242			SZ Crt	Gl 425A
V779 Cen								V779 Cen	Cen X-3; Krzeminski's Star; X1119-603 (3A,
V685 Cen				99218		-57°03909	-57°04668	V685 Cen	BV 724
V442 Cen								V442 Cen	152.1933; HV 8364; P 740
MN Cen				99769		-60°03559	-60°02965	MN Cen	
AW UMa				99946	+30°2163			AW UMa	
HD 100018A				100018 A	42°2214 A				
TU Mus				100213		-65°01101	-65°01675	TU Mus	LSS 2370
90 Leo		90 Leo	4456	100600	+17°2374				
TT Crt								TT Crt	FSV 113211
CoD -37°7355						-37°07355	-37°04818		X1133-377 (EXO)
DF UMa					48°1958 A			DF UMa	
RZ Leo								RZ Leo	30.1919

Name	Bayer	Flmstd	HR	HD	BD	CoD	CPD	Var	Other
LW Cen				101084		-62°00546	-62°02151	LW Cen	IC 2944-31; LSS 2417
T Leo					4°2506a			T Leo	BPM 87501; PG 1135+036; Zi 891
BH Cen				308826			-62°02189	BH Cen	IC 2944-55; LSS 2432
TV Mus				310730				TV Mus	
V752 Cen				101799		-35°07392	-35°04943	V752 Cen	BV 502
V346 Cen				101837		-61°03158	-61°02551	V346 Cen	610.1936; LSS 2464
DO Dra								DO Dra	YY Dra?; PG 1140+719; X1140+719 (3A,1
MP Cen				308976		-61°03165	-61°02564	MP Cen	LSS 2471
CE Leo								CE Leo	CSV 6858; S 7763
V838 Cen				102077		-48°06770	-48°04174	V838 Cen	INCA 1119
TW Vir								TW Vir	PG 1142-041
BL Leo								BL Leo	S 8029
V830 Cen								V830 Cen	X1145-616 (3A,1E)
SV Cen				102552		-59°03950	-59°03809	SV Cen	177.1906; HV 1289; LSS 2501
V801 Cen				102567		-61°03203	-61°02636	V801 Cen	He 3-715; LSS 2502; X1145-619 (3A,1E,1ES
HR 4535			4535	102660	+17°2402				
LZ Cen				102893		-60°03794	-60°03415	LZ Cen	LSS 2515
GQ Mus								GQ Mus	N Mus 1983
BC UMa								BC UMa	GR 102
VZ Cen				103146		-60°03818	-60°03454	VZ Cen	46.1913; HV 3362
DN UMa		65 UMa A	4560	103483	+47°1913			DN UMa	CSV 101230; NSV 05384; Zi 905
95 Leo	o Leo	95 Leo	4564	103578	+16°2319				49H Leo
HR 4590			4590	104337	-18°3295				(10H Crt); 4G Crv
AG Vir				104350	+13°2481			AG Vir	3.1929

Name	Sp1	Sp2	T-JD 2400000	P	e	omel	V0	K1	K2	v1 sin i	v2 sin i
HD 95638	F7V		44599.104	6.03364	0	-	-9.4	31.8			
LL Vel	F0V		45000.208	0.309873							
AN UMa	sdBe		44218.00067	0.07975320	0	-	-39.		271. e	397 Wi	
AP Leo	G0V	(G1V)	39536.542	0.4303572							
ST LMi	sdBe	M5-6V	46217.4720	0.07908997	0	-	+101.		260		
chi2 Hya	B8III-IV	B8.5V	42848.6107	2.267701	0	-	+29.7	123.3	168.9	193	
QU Car	sdBe	[K5V]	43960.797	0.454	0	-	-84.	115		250: e	
V385 Car	WN8	[A7V]	42772.43	4.1584	0	-	-	10.6			
IR Car	[G0]	(F9.5)	24380.061	0.3460624							
V431 Car	WC7	O7V	42467.283	7.886	0	-	-10.	144	84.6		
BM UMa	[K0]	(G9)	37348.558	0.2712207							
EM Car	O8V	O8V	45037.8912	3.414278	0.0120 phi	352.9 phi	-7.0	255.4	239.1		
EN Car	B3-B5	(A0)	23879.894	1.53498							
TT Hya	B9.5Ve	G9-K1III-I	43918.1060	6.95342913	0	-	+7.3	32.3	131.8	168	
AS Cen	[G5]	(G1)	25025.408	0.30523688							
V436 Cen	sdBe	(M5.5V)	44321.475	0.06250015	0	-	+10.	59		583. e	
GL Car	B3:V	(B3:V)	42070.11286	2.4222308	0.1457 phi	66.1 phi					
HD 97950	WN7	O5[V]	44260.28	3.7720	0	-	+12.	72			
SV Crt	A3VpSrCrEu	A8V	40371.65	5.90513	0.176	314.41	-8.63	73.09	98.5	25.*	
DP Leo	sdBe		44214.5527	0.06236285	0	-	-		330. e		
xi UMa	G5V		25250.978	3.9805	0.00	-	-15.90	5.04		2.8	
55 UMa	A6V	A5-9	34830.88	2.55385	0.43	74.3	-4.6	80.4	89.3::	47	140
SZ Crt	M0V			11.58							
V779 Cen	O8.5eqvIII-V	(XPSR)	44687.49115	2.0871061	0.0008	-	+39.	24	415.65	250	
V685 Cen	B9IV/V	(A8)	25351.530	1.190964							
V442 Cen	sdBe			0.46?	0	-	-	> =80.		621. e	
MN Cen	B2/3V	(B7)	24918.58	3.48916							
AW UMa	A9(IV)n	(A9IV)	44664.7993	0.4387299	0	-	+0.6	22.2	(423::)		
HD 100018A	F2V	F5V	44696.65	7.3993	0.349	67	-1.8	72.7	82.4	< =24.	
TU Mus	O8.5Vn	O8(V)	41699.8270	1.3872833	0	-	+1.8	251.3	370.5		
90 Leo	B4V		44181.8	3.8209	0.02	-	+6.4	24.0		117	
TT Crt	sdBe	K5-M0V	48306.8965	0.30428	0	-	+29.	134	169		
CoD -37°7355	G8III/K1IV			1.042							
DF UMa	K4V	[M4V]	42200.04	1.033824	0.08	30	-33.6	56.7		<~25.	
RZ Leo	sdBe			0.0708?							

Name	Sp1	Sp2	T-JD 2400000	P	e	omel	V0	K1	K2	v1 sin i	v2 sin i
LW Cen	B1.5V	(B2)	24824.462	1.0025674	0	-	+9.	0			
T Leo	sdBe	(M5.5V)	44974.0099	0.0588190	0	-	+44.	135		673 Sh; 284 Wi	
BH Cen	B5V	B5(V)	31748.7478	0.79158298							
TV Mus	F2V		24161.9711	0.4457010	0	-	+3.1	33.2	278		
V752 Cen	F8(V)	F5(V)	44243.6916	0.37022484	0.0	-	+29.1	83.2	267.2		
V346 Cen	B0.5-1V	B2V	44648.5514	6.322026	0.288 phi	345.0 phi	-8.	135	190	165	140
DO Dra	sdBe	dM4	46948.60551	0.164988	0	-	+11.	87	184	451 Wi	110
MP Cen	B3	(B6)	29113.350	2.9934466							
CE Leo	[G6]	(G4)	47679.6689	0.30342785							
V838 Cen	K0-1Vp			1.84						23.0	
TW Vir	sdBe		46804.91550	0.1826720	0	-	-	88		596 Sh; 564 Wi	
BL Leo	[G8]	(G6.5)	44648.756	0.2819306							
V830 Cen	B2Iae	XPSR	44669.4	10.756	0	-	-13.	23			
SV Cen	B1V	B6.5II-III	43332.9756*	1.658532	0	-	-13.4	257.4	182.1		
V801 Cen	B1Vne	XPSR	43082.	187.5	~0.8					290	
HR 4535	A3[V]m	[M2V]	23521.231	2.7818	0.018	61.75	-24.21	30.97		22	
LZ Cen	B2III	(B2III)	26096.384	2.757717							
GQ Mus	sdBe		47241.5990	0.05923	0	-	-	180			
BC UMa	sdBe	>M5		0.063?							
VZ Cen	B2III/IV	(B7)	29125.519	4.9287012	0	-	-31.5	39.4		165	
DN UMa	A3Vn	(A3V)	44275.640	1.730411	0	-	-1.2	138.3	130.8	150	
95 Leo	A3V	[F0V]	24941.115	6.6254	0.02	4.1	-20.4	57.6	80.6	54	
HR 4590	B1.5V	(B3V)	26378.885	2.96310	0.057	68.8	+3.	120.5	225	120	
AG Vir	A7-9V		47593.64729	0.64265059	0	-	-6.6	75.7	240.8		

Name	Spectroscopic orbit
HD 95638	Mayor, M., Mazeh, T. 1987, AAp, 171, 157
LL Vel	
AN UMa	Schneider, D.P., Young, P. 1980, ApJ, 240, 871
AP Leo	
ST LMi	Mukai, K., Charles, P.A. 1987, MN, 226, 209
chi2 Hya	Andersen, J. 1975, AAp, 44, 445
QU Car	Gilliland, R.L., Phillips, M.M. 1982, ApJ, 261, 617
V385 Car	Moffat, A.F.J. 1983, Wolf-Rayet Stars: Progenitors of Supernovae?, ed. M.-C. Lortet, A. Pitault (Paris: Meudon), p. III-13
IR Car	
V431 Car	Davis, A.B., Moffat, A.F.J., Niemela, V.S. 1981, ApJ, 244, 528
BM UMa	
EM Car	Andersen, J., Clausen, J.V. 1988, AAp, 213, 183
EN Car	
TT Hya	Popper, D.M. 1989, ApJ Suppl., 71, 595
AS Cen	
V436 Cen	Gilliland, R.L. 1982, ApJ, 254, 653
GL Car	
HD 97950	Moffat, A.F.J., Niemela, V.S. 1984, ApJ, 284, 631
SV Crt	Wolff, S.C. 1974, PASP, 86, 179; Abt, H.A., Conti, P.S., Deutsch, A.J., Wallerstein, G. 1968, ApJ, 153, 177
DP Leo	Biermann, P., Schmidt, G.D., Liebert, J., Stockman, H.S., Tapia, S., Kühr, H., Strittmatter, P.A., West, S., Lamb, D.Q. 1985, ApJ, 293, 303
xi UMa	Berman, L. 1931, Lick Bull., 15, 109
55 UMa	Lloyd, C. 1981, MN, 195, 805
SZ Crt	
V779 Cen	Hutchings, J.B., et al. 1979, ApJ, 229, 1079; Fabbiano, G., Schreier, E.J. 1977, ApJ, 214, 235
V685 Cen	
V442 Cen	Wargau, W., Vogt, N. 1982, Mitt. AG, 55, 77
MN Cen	
AW UMa	Rensing, M.J., Mochnacki, S.W., Bolton, C.T. 1985, AJ, 90, 767; McLean, B.J. 1981, MN, 195, 931
HD 100018A	Mayor, M., Mazeh, T. 1987, AAp, 171, 157
TU Mus	Andersen, J., Gronbech, B. 1975, AAp, 45, 107
90 Leo	Abt, H.A., Gomez, A.E., Levy, S.G. 1990, ApJ Suppl., 74, 551
TT Crt	Szkody, P., Williams, R.E., Margon, B., Howell, S.B., Mateo, M. 1992, ApJ, 387, in press
CoD -37°7355	
DF UMa	Bopp, B.W., Fekel, F.W. 1974, PASP, 86, 978
RZ Leo	

Name	Spectroscopic orbit
LW Cen	(Thackeray, A.D., Wesselink, A.J. 1965, MN, 131, 121)
T Leo	Shafter, A.W., Szkody, P. 1984, ApJ, 276, 305
BH Cen	
TV Mus	Hilditch, R.W., King, D.J., McFarlane, T.M. 1989, MN, 237, 447
V752 Cen	Sistero, R.F., Castore de Sistero, M.E. 1974, AJ, 79, 391
V346 Cen	Gimenez, A., Clausen, J.V., Andersen, J. 1986, AAp, 160, 310
DO Dra	Mateo, M., Szkody, P., Garnavich, P. 1991, ApJ, 370, 370
MP Cen	
CE Leo	
V838 Cen	
TW Vir	Shafter, A.W. 1983, IBVS 2377
BL Leo	
V830 Cen	Hutchings, J.B., Crampton, D., Cowley, A.P., Thompson, I.B. 1987, PASP, 99, 420
SV Cen	Rucinski, S.M., Baade, D., Lu, W.X., Udalski, A. 1992, AJ, 103, 573
V801 Cen	
HR 4535	Petrie, R.M. 1926, Pub. DAO, 3, 331
LZ Cen	
GQ Mus	Diaz, M.P., Steiner, J.E. 1990, Rev. Mexicana Astr. Astrofis., 21, 369
BC UMa	
VZ Cen	(Feast, M.W., Thackeray, A.D., Wesselink, A.J. 1963, MemRAS, 68, 1)
DN UMa	Popper, D.M. 1986, PASP, 98, 1312
95 Leo	Struve, O., Morgan, W.W. 1927, ApJ, 66, 135
HR 4590	van Arnam, R.N. 1932, ApJ, 75, 348
AG Vir	Bell, S.A., Rainger, P.P., Hilditch, R.W. 1990, MN, 247, 632

Name	V	B-V	U-B	R-I	E(B-V)	par	Cluster	ADS	Vis Binary	Companions
HD 95638	7.15	+0.50	-0.02							
LL Vel	6.74	+0.35	+0.06			0.012				
AN UMa	14.5	0.0	-0.7		0.0 u					
AP Leo	9.32	+0.90			0.31					
ST LMi	15.55	+0.99	-0.75	+0.75	0.05 m					
chi2 Hya	5.65	-0.06	-0.26		0.02					
QU Car	11.38	+0.02	-0.84		0.10 u					
V385 Car	7.81	+0.16	-0.01		0.50 u					
IR Car	12.2	+0.63	+0.09				NGC 3532?			
V431 Car	8.25	-0.01	-0.11:		0.35 u		Car OB1?			
BM UMa	13.8 B									
EM Car	8.376	+0.31	-0.66		0.63		Car OB2?; Car OB4			
EN Car	10.30	+0.28	-0.49				Tr 18?			
TT Hya	7.25	+0.03	-0.02							
AS Cen	13. p									
V436 Cen	11.9 v	-0.03	-0.84		0.13					
GL Car	9.54	+0.17	-0.73		0.37		Car OB4			
HD 97950	9.53	+0.74	+0.50		1.38		NGC 3603		B 1184; I 1132 A	
SV Crt	6.14 D	+0.20	+0.15		0.08	D0.004		8115 A	bet 600 A	11.5,1.0"; 9.8, 57.2"
DP Leo	17.8				0.06 m					
xi UMa	4.87	+0.59	+0.22			0.137; D0.120		8119 B	Sig 1523 B (orb)	4.41H, G0V, 3.1"
55 UMa	4.78	+0.12	+0.03	+0.03		0.025			CHARA 133	
SZ Crt	8.62 D	+1.36	+1.21	+0.82C				8138 A	Stone 22 A	11.35, M3V, 5.1"
V779 Cen	13.34	+1.04	-0.08		1.36		(Car OB2)			
V685 Cen	9.4 p									
V442 Cen	11.95	0.00	-0.67							
MN Cen	8.61 p	+0.06							CorO 269 A	10.9, 7"
AW UMa	6.83	+0.35	+0.015		0.00				OSigSig 111 A	9.46V, +0.75, +0.30, 67.0"
HD 100018A	6.95	+0.47	-0.03		0.02	0.044; D0.015		8189 A	OSig 234 A (orb)	del m=0.4, 0.400", 85.999y
TU Mus	8.17	+0.05	-0.84		0.38		Cru OB1?			
90 Leo	5.944	-0.154	-0.636	-0.14		D0.003		8220 A	Sig 1552 A	7.0v, B6, 3.6"; 8.9v, F5, 63"
TT Crt	12.9 p									
CoD -37°7355	10.58	+0.906	+0.594	+0.588C						
DF UMa	10.136	+1.245			0.00	0.046		8242 A	Ku 39 A (orb)	11.4, 1.8"
RZ Leo	11.5 p				0.06 m					

Name	V	B-V	U-B	R-I	E(B-V)	par	Cluster	ADS	Vis Binary	Companions
LW Cen	8.90	+0.08	-0.81				IC 2944			
T Leo	10: v				0.00 u					
BH Cen	10.03	+0.15	-0.66		0.31:		IC 2944			
TV Mus	11.00 p	+0.826		+0.478C						
V752 Cen	9.17									
V346 Cen	8.504	-0.01	-0.77		0.24		Sk 14			
DO Dra	10.0 B									
MP Cen	10.18:	+0.20	-0.66							
CE Leo	11.8 p									
V838 Cen	8.977	+0.899	+0.500	+0.53		0.025			Rst 3558a A (orb)	del m=0.1, 0.2"
TW Vir	12.1 v	+0.08	-0.77	+0.08	0.00 u					
BL Leo	13.8 p									
V830 Cen	13.12				1.64 m		(Cru OB1)			
SV Cen	8.71	+0.05	-0.65		0.23					
V801 Cen	8.94	+0.20	-0.85				<Cru OB1>			
HR 4535	6.04	+0.27	+0.14		0.14					
LZ Cen	8.10									
GQ Mus	17.8	+0.15	-0.75		0.45: u					
BC UMa	11.2 v				0.05 m					
VZ Cen	8.34	+0.02	-0.73				Cru OB1			
DN UMa	6.54 D	+0.10	+0.08		0.01	D0.003		8347 A	A 1777 A (orb); Sig	9.0v, 0.121"; 8.3v, 4.0"; 7.03, +0.01
95 Leo	5.53	+0.11	+0.12		0.00	-0.003			H VI 13 A	
HR 4590	5.26	-0.20			0.04					
AG Vir	8.35	+0.22	+0.05			A0.003	Wolf 630 gp			

Name	Vbl type	Min I	Min II	D	d	i	r1	r2	II	qph
HD 95638										
LL Vel	ELL:	(0.05)								
AN UMa	E+XRM	20.2 B				65				
AP Leo	EW/KW	9.91	9.88			83.131	0.5866	0.3132	0.800	0.211
ST LMi	AM					55				
chi2 Hya	EA/DM	5.94	5.92			78.4	0.3283	0.1615	0.8299 V	
QU Car	NL					44.66 s				
V385 Car	ELL:+WR	(0.04)	(0.04)			18.56 pi				
IR Car	EW/KW	12.6 v	12.6 v			71.	0.448	0.275	0.72 p	0.46
V431 Car	E/WR					43.5			0.41	
BM UMa	EW	(0.95 B)	(0.80 B)			86.5	0.41	0.31	0.60 B	0.70
EM Car	EA/DM	8.856	8.851	0.14	< =0.02	81.52	0.2474	0.2771	0.442 y	
EN Car	EA/KE	(0.32 B)		0.15		73.	0.349	0.282	0.89 B	0.34
TT Hya	EA/SD	9.02	7.32		0.035	84.4	0.0894	0.2431	0.7247 V	0.184
AS Cen	EW/KW	13.2 p	13.2 p			63.	0.422	0.296	0.66 p	0.66
V436 Cen	UGSU	16.05				-65.				
GL Car	EA/DM	10.15	10.13	0.14; 0.17	0.000	86.38	0.2204	0.2094	0.5365 y	
HD 97950						8.74 s				
SV Crt	ACV					69.50 s	0.125 ome		0.6 s	
DP Leo	XM			[0.0380]		76				
xi UMa	RS									
55 UMa							0.137 ome	0.408 ome		
SZ Crt	BY	(0.035)								
V779 Cen	E+XP	13.44	13.42	0.251 x	0.234 x	82.5	0.653		0.975	
V685 Cen	EA/DM	9.8 p	9.5 p			74.	0.33	0.28	0.83 p	0.33
V442 Cen	UGSS	16.24								
MN Cen	EA/DM	9.00 p	8.69 p	0.17	<0.03	74.	0.219	0.293	0.66 p	0.39
AW UMa	EW/KW	7.13	7.08		0.06:; 0.11	79.1	0.613	0.193	0.909 y	0.0716
HD 100018A						76.96 s	< =0.093 ome		0.61 s	
TU Mus	EB/KE	8.75	8.65			75.869	0.409	0.351	0.6264 y	0.7207
90 Leo										
TT Crt	UG	16.14								
CoD -37°7355										
DF UMa	BY									
RZ Leo	NR	17.5 p				56.16 pi				
						57.63 pi				

Name	Vbl type	Min I	Min II	D	d	i	r1	r2	II	qph
LW Cen	EB/KE	9.65	9.6			82.5	0.397	0.352	0.58 V	0.78
T Leo	UG	15.57				55.06 w				
BH Cen	EB/KE	11.16	8.8			90.0	0.4361	0.4067	0.5446	0.8435
TV Mus	EW/KW	11.21 p	11.21 p			78.9	0.587	0.265	0.820 bol	0.135
V752 Cen	EW/KW	9.66	9.61		0.047	85.7	0.480	0.275	0.711 bol	(0.3175)
V346 Cen	EA/DM	8.76	8.716	0.15	0.00	84.2	0.205	0.104	0.822 y	
DO Dra	UG	16.06 B						0.406 ome		
MP Cen	EB/DM	(0.7 p)	(0.3 p)			77.5	0.226	0.310	0.52 p	0.48
CE Leo	EW/KW	12.6 p	12.5 p			83.0	0.422	0.296	0.64 p	0.6
V838 Cen	BY									
TW Vir	UGSS	15.48				41.10 w				
BL Leo	EW/KW	14.5 p	14.4 p			80.0	0.44	0.28	0.67 p	0.50
V830 Cen	ELL+XP					58.72 se				
SV Cen	EB/KE:	9.98	9.45			81.8	0.475	0.500	0.60 V	
V801 Cen	GCAS:+XP									
HR 4535						53.01 pi				
LZ Cen	EB/DM	8.50	8.50			83.	0.28	0.28	0.50 V	1.0
GQ Mus	NB									
BC UMa	UG	17.5 p				57.63 pi				
VZ Cen	EA	(0.35 p)	(0.15 p)	0.2		72.5	0.314	0.272	0.84 B	0.30
DN UMa	EA	(0.09 B)	(0.08 B)	0.10		74.06	0.2006	0.2006	0.35 V*	
95 Leo						54.05 s	0.39 ome			
HR 4590						64.38 s	0.341 ome		0.76 s	
AG Vir	EW/KE	8.93	8.79		0.03:; 0.06	81.04	0.484	0.280	0.8510 bol	(0.314)

Name	Photometric solution
HD 95638	
LL Vel	(Lampens, P. 1987, AAp, 172, 173)
AN UMa	Brainerd, J.J., Lamb, D.Q. 1985, in Cataclysmic Variables, etc., p. 247
AP Leo	Cristescu, C., Oprescu, G., Suran, M.D. 1979, IBVS, 1688
ST LMi	Wickramasinghe, D.T. 1991, paper presented at the San Diego Workshop on Cataclysmic Variables, San Diego, California
chi2 Hya	Clausen, J.V., Nordström, B. 1978, AAp, 67, 15
QU Car	
V385 Car	(Moffat, A.F.J., Isserstedt, J. 1980, AAp, 91, 147)
IR Car	Svechnikov, M.A., Kuznetsova, E.F. 1990, Katalog Priblizhennykh Fotometricheskikh i Absolyutnykh Elementov Zatmennykh Peremennykh Zvez
V431 Car	St.-Louis, N., et al. 1987, ApJ, 322, 870
BM UMa	Svechnikov, M.A., Kuznetsova, E.F. 1990, Katalog Priblizhennykh Fotometricheskikh i Absolyutnykh Elementov Zatmennykh Peremennykh Zvez
EM Car	Andersen, J., Clausen, J.V. 1988, AAp, 213, 183
EN Car	Svechnikov, M.A., Kuznetsova, E.F. 1990, Katalog Priblizhennykh Fotometricheskikh i Absolyutnykh Elementov Zatmennykh Peremennykh Zvez
TT Hya	Etzel, P.B. 1988, AJ, 95, 1204
AS Cen	Svechnikov, M.A., Kuznetsova, E.F. 1990, Katalog Priblizhennykh Fotometricheskikh i Absolyutnykh Elementov Zatmennykh Peremennykh Zvez
V436 Cen	Vogt, N. 1981, Habilitation Thesis, U. Bochum
GL Car	Gimenez, A., Clausen, J.V. 1986, AAp, 161, 275
HD 97950	
SV Crt	(Maitzen, H.M. 1973, AAp Sup, 11, 327)
DP Leo	Biermann, P., et al. 1985, ApJ, 293, 303
xi UMa	
55 UMa	
SZ Crt	
V779 Cen	Khruzina, T.S., Cherepashchuk, A.M. 1986, AZh, 63, 494 (1987 Sov AJ, 30, 295)
V685 Cen	Svechnikov, M.A., Kuznetsova, E.F. 1990, Katalog Priblizhennykh Fotometricheskikh i Absolyutnykh Elementov Zatmennykh Peremennykh Zvez
V442 Cen	
MN Cen	Svechnikov, M.A., Kuznetsova, E.F. 1990, Katalog Priblizhennykh Fotometricheskikh i Absolyutnykh Elementov Zatmennykh Peremennykh Zvez
AW UMa	Woodward, E.J., Koch, R.H., Eisenhardt, P.R. 1980, AJ, 85, 50
HD 100018A	
TU Mus	Wilson, R.E., Rafert, J.B. 1981, ApSpSci, 76, 23
90 Leo	
TT Crt	
CoD -37°7355	
DF UMa	
RZ Leo	

Name	Photometric solution
LW Cen	Svechnikov, M.A., Kuznetsova, E.F. 1990, Katalog Priblizhennykh Fotometricheskikh i Absolyutnykh Elementov Zatmennykh Peremennykh Zvez
T Leo	
BH Cen	Leung, K.-C., et al. 1984, AJ, 89, 872
TV Mus	Hilditch, R.W., King, D.J., McFarlane, T.M. 1989, MN, 237, 447
V752 Cen	Barone, F., Milano, L., Russo, G. 1990, Active Close Binaries, ed. C. Ibanoglu (Dordrecht: Kluwer), p. 161
V346 Cen	Gimenez, A., Clausen, J.V., Andersen, J. 1986, AAp, 160, 310
DO Dra	
MP Cen	Svechnikov, M.A., Kuznetsova, E.F. 1990, Katalog Priblizhennykh Fotometricheskikh i Absolyutnykh Elementov Zatmennykh Peremennykh Zvez
CE Leo	Svechnikov, M.A., Kuznetsova, E.F. 1990, Katalog Priblizhennykh Fotometricheskikh i Absolyutnykh Elementov Zatmennykh Peremennykh Zvez
V838 Cen	
TW Vir	
BL Leo	Svechnikov, M.A., Kuznetsova, E.F. 1990, Katalog Priblizhennykh Fotometricheskikh i Absolyutnykh Elementov Zatmennykh Peremennykh Zvez
V830 Cen	
SV Cen	Drechsel, H., et al. 1982, AAp, 110, 246
V801 Cen	
HR 4535	
LZ Cen	Svechnikov, M.A., Kuznetsova, E.F. 1990, Katalog Priblizhennykh Fotometricheskikh i Absolyutnykh Elementov Zatmennykh Peremennykh Zvez
GQ Mus	
BC UMa	
VZ Cen	Svechnikov, M.A., Kuznetsova, E.F. 1990, Katalog Priblizhennykh Fotometricheskikh i Absolyutnykh Elementov Zatmennykh Peremennykh Zvez
DN UMa	García, J.M., Giménez, A. 1986, ApSpSci, 125, 181
95 Leo	
HR 4590	
AG Vir	Bell, S.A., Rainger, P.P., Hilditch, R.W. 1990, MN, 247, 632

Name	M1	M2	A	R1	R2	T1	T2	log L1	log L2	Distance	U	V	W
HD 95638													
LL Vel													
AN UMa	0.44	0.184 p											
AP Leo	1.09 s'	0.23 phi								100. phi			
ST LMi	0.48	0.181 p								137. k			
chi2 Hya	3.60	2.63								215. phi			
QU Car	0.89 p	0.86 p								447. p			
V385 Car	15.84 s	1.70 pi											
IR Car													
V431 Car	11.08	18.85											
BM UMa													
EM Car	21.37	22.83								2200. phi			
EN Car													
TT Hya	2.59	0.64											
AS Cen													
V436 Cen	0.97	0.129 p								155. p			
GL Car	7.01 s	6.83 s								1420. phi			
HD 97950	15.84 s	64.56 s								6920. g			
SV Crt	2.06 s	1.53 s								89.8 s			
DP Leo	0.43	0.128 p								618. s			
xi UMa										8.05 pi			
55 UMa													
SZ Crt													
V779 Cen	17.83	1.03								7330. phi			
V685 Cen													
V442 Cen													
MN Cen													
AW UMa	1.64	0.118								89.6 phi			
HD 100018A	1.36 s	1.20 s								73.1 s			
TU Mus	22.58	15.31								2110. phi			
90 Leo													
TT Crt													
CoD -37°7355													
DF UMa	0.71 s	0.33 pi								21.7 pi			
RZ Leo	0.53 p	0.154 p								247. k			

Name	M1	M2	A	R1	R2	T1	T2	log L1	log L2	Distance	U	V	W
LW Cen													
T Leo	0.146 w	0.127 p								114. k			
BH Cen	5.07 s'	4.28 phi								1340. phi			
TV Mus	1.32	0.157											
V752 Cen	1.27	0.40											
V346 Cen	11.72	8.33								2280. phi			
DO Dra													
MP Cen													
CE Leo													
V838 Cen													
TW Vir	1.34 w	0.54 p								495. k			
BL Leo													
V830 Cen	9.94 se	1.41 s								8230. s			
SV Cen	6.23	8.81											
V801 Cen													
HR 4535	2.00 s	0.47 pi								66.0 s			
LZ Cen													
GQ Mus													
BC UMa	0.71 p	0.28 p								178. p			
VZ Cen	2.25	0.68											
DN UMa	1.91	2.02								150. phi			
95 Leo	2.00 s	1.43								72.6 s			
HR 4590	11.22 s	6.01								466. s			
AG Vir	1.67	0.52								174. phi			

Name	Notes
HD 95638	
LL Vel	Distorted l.c.; not binary (J.M. Mathews 1990, AAp, 229, 452); v sin i small; Else P=2Pphtm
AN UMa	XM; Twd<20000K
AP Leo	
ST LMi	AM; Twd=11000K
chi2 Hya	del mv=1.37
QU Car	
V385 Car	Pphtm inconsistent with Psp (Smith, et al. 1985; van Genderen, et al. 1987; Lamontagne & Moffat 1987; Gosset, et al. 1989)
IR Car	
V431 Car	del m~0.35; LSS 2198
BM UMa	
EM Car	U=42y
EN Car	
TT Hya	
AS Cen	
V436 Cen	Twd<15000K
GL Car	U=25.22y
HD 97950	
SV Crt	del mv=0.5; alpCVn; *Prot=Porb
DP Leo	AM
xi UMa	Vis. orb: P=59.840y, T=1935.170, a=2.530", e=0.414, i=122.65°, ome=307.53°, Ome=101.59° (Heintz, W.D. 1967, AN, 289, 269)
55 UMa	
SZ Crt	BY
V779 Cen	X-ray eclipses, del t=0.5055d; irot(ns)=45° (Leahy, D.A. 1991, MN, 251, 203)
V685 Cen	Alternative lc soln: B9IV-V+(A7), i=83.5, r1=0.31, r2=0.22, l1=0.88p, q=0.58
V442 Cen	
MN Cen	B2/3V+(F4II-III), i=72.92, r1=0.206, r2=0.284, l1=0.884 v, qph=(0.3154) (lc: Gaposchkin, S.I. 1953, Ann. Harvard Obs., 113, 67)
AW UMa	
HD 100018A	del m=0.48; Vis. orb: P=87.19y, T=1967.23, a=0.39", e=0.35, i=56.7°, ome=26.3°, Ome=337.1° (Couteau, P. 1989, AAp Sup, 80, 373)
TU Mus	del m=0.62; (B-V)l=+0.05
90 Leo	
TT Crt	UG; Ellipsoidal variable (del V=del R=0.35) at minimum
CoD -37°7355	RS? (del V=0.14)
DF UMa	Vis. orb: P=363.45y, T=1736.75, a=2.21", e=0.166, i=53.5°, ome=214.4°, Ome=7.9° (Zulevic, D.J. 1986, Circ. Inf., No. 98)
RZ Leo	NR

Name	Notes
LW Cen	
T Leo	Twd<25000K
BH Cen	
TV Mus	
V752 Cen	del m=1.57
V346 Cen	U=321y
DO Dra	Twd<25000K
MP Cen	
CE Leo	
V838 Cen	Vis. orb: P=32.35y, T=1967.75, a=0.280", e=0.05, i=62.8°, ome=334.0°, Ome=106.7° (Heintz, W.D. 1986, AAp Sup, 65, 411)
TW Vir	UG
BL Leo	
V830 Cen	Ell:+XP (0.09V)
SV Cen	
V801 Cen	
HR 4535	
LZ Cen	B2III+(B2III), i=85.2, r1=0.264, r2=0.264, l1=0.50 v (lc: Gaposchkin, S.I. 1953, Ann. Harvard Obs., 113, 67)
GQ Mus	
BC UMa	
VZ Cen	B2III/IV+(F1II-III), i=78.5, r1=0.240, r2=0.210, l1=0.941 v, qph>=0.1079 (Gaposchkin, S.I. 1953, Ann. Harvard Obs., 113, 67)
DN UMa	*13=0.30 V; Vis. orb: P=115.10y, T=1988.80, a=0.226", e=0.56, i=50.9°, ome=38.0°, Ome=174.3° (Baize, P. 1991, AAp Sup, 87, 49)
95 Leo	
HR 4590	del m=1.24
AG Vir	del m=2.4

Name	RA(1950)	μ(RA)	Dec(1950)	μ(Dec)	Pos Ref	FK4	SRS	AGK3	SAO	GC	l	b
HD 104631	12 00 21.696	-0.25	-61 53 48.61	-0.8	SAO				251702	16459	297.31	+00.17
the1 Cru	12 00 27.869	-2.15	-63 02 04.11	-0.5	Per70		42614		251705	16463	297.53	-00.95
the2 Cru	12 01 43.859	-0.24	-62 53 14.26	-0.5	Per70		42616		251717	16490	297.64	-00.78
BR Mus	12 02 14.82		-72 35 28.8		LG90						299.47	-10.31
HD 104994	12 02 42.8		-61 46 26.		LS						297.56	+00.34
ZZ Cru	12 03 09.31		-63 13 32.0								297.86	-01.08
GS Mus	12 03 12.748	-0.02	-69 17 41.03	-2.1	SAO				251733	16525	298.94	-07.05
AI Cru	12 03 31.46		-60 58 42.4								297.51	+01.14
HD 105287A	12 04 38.357	+0.11	+69 21 14.88	+2.0	AGK3			+69°0502	015716	16557	128.77	+47.55
W Crv	12 05 02.		-12 52 48.		GCVS						286.76	+48.33
BD +26°2304	12 05 03.135	+0.07	+26 10 39.81	-0.7	AGK3			+26°1240			217.60	+80.12
V788 Cen	12 06 18.122	-0.49	-44 02 49.38	-5.9	Per70		42630		223241	16592	294.96	+17.89
TY UMa	12 06 32.58	-1.05	+56 18 34.7	+3.3	(PI77)						134.83	+60.11
CC Com	12 09 34.53		+22 48 38.0		AC						238.05	+79.97
HR 4646	12 09 52.843	+0.271	+77 53 38.20	+1.81	FK4	454		+77°0381	007522	16672	125.64	+39.31
MU Cen	12 10 16.80		-44 11 34.3		L85						295.73	+17.57
AH Vir	12 11 47.877	+0.20	+12 05 54.90	-12.3	AGK3			+12°1373	100003		271.47	+72.39
UX CVn	12 12 17.71	-0.01	+36 55 29.8	-1.1	(McN86)						159.83	+77.71
EG UMa	12 13 16.33	-0.60	+52 47 48.4	-11.1	(McN86)						135.25	+63.75
DK Dra	12 13 21.404	-0.38	+72 49 45.35	-2.3	AGK3			+72°0317	007533	16744	126.66	+44.32
AB Cru	12 14 55.850	-0.34	-57 53 12.68	-0.6	SAO				239816		298.47	+04.41
NSV 05543	12 16 09.		+40 18 18.		NSV						148.64	+75.42
Corvus CV	12 17 48.64		-18 10 22.9								292.71	+43.80
HR 4693	12 17 48.976	-0.49	+26 53 54.44	-11.2	Per70		42668	+26°1258	082250	16829	215.35	+83.05
HD 107468	12 18 33.925	-0.13	+25 59 51.52	-4.3	AGK3			+25°1330	082261		222.93	+83.06
BD +26°2333	12 18 52.29		+25 57 08.1		AC						223.38	+83.10
HD 107793	12 20 37.805	-0.10	+26 07 42.83	-1.9	AGK3			+26°1267	082280		222.74	+83.54
IL Com	12 22 31.887	-0.09	+25 50 15.38	-1.2	AGK3			+25°1339	082295		226.29	+83.88
V373 Cen	12 23 23.91		-45 32 58.8		L85						298.32	+16.82
HR 4729	12 23 43.075	-0.52	-62 50 42.31	-3.8	Per70		42690		251903	16951	300.12	-00.39
alp1 Cru	12 23 48.064	-0.363	-62 49 19.43	-1.66	FK4	462			251904	16952	300.13	-00.36
alp2 Cru	12 23 48.870		-62 49 21.48							16953	300.13	-00.36
DD Com	12 26 15.		+22 00		GCVS						258.04	+82.53
18 Com	12 26 57.037	-0.19	+24 23 06.37	-1.0	AGK3			+24°1307	082333	17020	243.07	+84.20
HD 108736	12 27 00.892	-0.13	+29 47 20.00	-2.0	AGK3			+29°1269			185.37	+84.62

Name	RA(1950)	μ(RA)	Dec(1950)	μ(Dec)	Pos Ref	FK4	SRS	AGK3	SAO	GC	l	b
4 Dra B	12 27 55.874	-1.03	+69 28 40.81	-4.8	AGK3			+69°0515	015816	17046	125.75	+47.81
NSV 05679	12 29 16.99		+22 46 51.4		AC						257.42	+83.51
AL Com	12 29 54.47		+14 37 15.85		D87						282.86	+76.47
RW Com	12 30 32.35	-0.94	+26 59 32.7	-4.0	( )						217.62	+85.87
kap Dra	12 31 21.550	-1.163	+70 03 48.96	+0.86	FK4	472		+70°0446	007593	17126	125.13	+47.26
BD +27°2151	12 32 18.928	+0.10	+27 06 16.26	-1.5	AGK3			+27°1239	082388		216.60	+86.28
AM CVn	12 32 28.33	+0.06	+37 54 14.5	+2.8	(W83)						140.28	+78.92
RZ Com	12 32 35.53	+0.08	+23 36 45.5	-1.2	(AC)						257.75	+84.71
24 Com B	12 32 35.859	+0.09	+18 39 07.47	+1.9	AGK3			+18°1195	100159	17146	278.83	+80.48
BD +24°2476	12 33 20.65		+23 42 35.7		AC						258.27	+84.89
RV Crv	12 35 03.324	-0.33	-19 18 10.62	+1.6	SAO				157402		298.48	+43.17
Y Crv	12 35 34.10		-14 43 31.2		AC						298.17	+47.75
FH Mus	12 36 56.818	-0.86	-66 14 12.09	-2.7	SAO				251987	17234	301.78	-03.67
SX Crv	12 37 37.339	+0.28	-18 31 32.40	+0.2	SAO				157434		299.25	+43.99
AX Dra	12 38 07.40		+66 33 37.1		PI77						124.71	+50.80
HD 110533	12 38 26.904	-13.03	+83 55 05.57	+1.8	AGK3			+83°0324	002067	17252	123.34	+33.47
HR 4821	12 38 40.251	-0.90	-12 44 26.80	+0.2	SAO				157448	17260	299.10	+49.78
HD 110326	12 38 40.927	-0.18	+30 42 39.76	0.0	AGK3			+30°1218	063135	17261	156.64	+85.99
V591 Cen	12 39 37.		-33 17 18.		GCVS						300.75	+29.27
CD Cru	12 40 53.23		-62 48 49.4		AC						302.07	-00.23
HW Vir	12 41 44.61		-08 23 51.0		AC						299.94	+54.16
10 CVn	12 42 37.629	-3.20	+39 33 00.75	+14.3	AGK3			+39°1289	063177	17337	128.81	+77.78
SS Com	12 47 10.	-0.24	+18 58 30.	+0.7	GCVS						300.04	+81.56
HR 4892	12 48 38.683	-0.61	+83 41 22.40	+1.7	AGK3			+83°0327	002101	17440	123.01	+33.71
EX Hya	12 49 42.72	-0.88	-28 58 40.7	+1.9	(W83)						303.19	+33.62
BU Cru	12 50 37.653	+0.08	-60 05 09.62	-3.0	SAO				252070	17488	303.20	+02.51
CC Cru	12 50 47.27		-60 03 37.5								303.22	+01.00
LW Hya	12 50 52.905	-0.56	-22 36 06.03	-3.7	SAO				181201		303.57	+40.00
HR 4917	12 54 06.309	-0.79	+54 22 10.96	+0.8	AGK3			+54°0883	028572	17567	121.36	+63.01
GO Com	12 54 11.3		+26 52 55.								009.09	+88.74
V485 Cen	12 54 39.		-32 57 00.		GCVS						304.36	+29.64
BF CVn	12 55 19.20	-2.0	+35 29 49.5	-13.	(AC)						113.95	+81.79
V839 Cen	12 56 03.953	-0.19	-36 42 19.24	-8.4	SAO				204000		304.57	+00.90
PSR 1257+12	12 57 33.126		+12 57 06.60								310.33	+74.49
PSR 1257+12	12 57 33.126		+12 57 06.60								310.33	+74.49

RA 12h

Name	RA(1950)	μ(RA)	Dec(1950)	μ(Dec)	Pos Ref	FK4	SRS	AGK3	SAO	GC	l	b
DT Vir	12 58 17.75	-4.88	+12 38 42.7	-2.5	( )						311.86	+75.09
RZ Cen	12 58 45.99		-64 21 28.1								304.06	-01.78
UY Vir	12 59 13.446	+0.06	-19 30 19.45	-5.0	SAO				157664		306.29	+43.04
CPD -63°2495	12 59 38.5		-63 33 59.		LS						304.18	-00.99

Name	Bayer	Flmstd	HR	HD	BD	CoD	CPD	Var	Other
HD 104631				104631		-61°03316	-61°02914		NSV 05434
the1 Cru	the1 Cru		4599	104671		-62°00604	-62°02543		6G Cru
the2 Cru	the2 Cru		4603	104841		-62°00610	-62°02561	the2 Cru	7G Cru; CSV 102690; NSV 05446
BR Mus						-72°00773	-72°01201	BR Mus	CSV 1819; S 4956
HD 104994				104994			-61°02945		He 3-749; LSS 2584; MR 40; WR 46
ZZ Cru				105055		-62°00615	-62°02575	ZZ Cru	
GS Mus				105056		-68°01028	-68°01612	GS Mus	He 3-751; LSS 2588; NSV 05454
AI Cru						-60°03971	-60°03723	AI Cru	NGC 4103-1; P 3523
HD 105287A				105287 A	+69°0645				
W Crv					-12°3565			W Crv	286.1930; P 787
BD +26°2304					+26°2304				Archer 11; NSV 05465
V788 Cen			4624	105509		-43°07502	-43°05682	V788 Cen	95G Cen
TY UMa								TY UMa	SVS 366
CC Com								CC Com	S 8489
HR 4646			4646	106112	+78°0412				31H Cam; (4H Dra)
MU Cen								MU Cen	
AH Vir				106400	+12°2437			AH Vir	4.1929; X1211+120 (MS)
UX CVn								UX CVn	HZ 22; PG 1212+369
EG UMa								EG UMa	Case 1; EG 87; GI 459.1; SVS 2817; WD 121
DK Dra			4665	106677	+73°0549			DK Dra	INCA 1128; X1213+728 (1ES)
AB Cru				106871		-57°04397	-57°05375	AB Cru	LSS 2639
NSV 05543									32.1933; CSV 101262; NSV 05543; P 804
Corvus CV									Corvus CV
HR 4693			4693	107325	+27°2114				CSV 102697; Mel 111-71; NSV 05559
HD 107468				107468	+26°2332				Archer 21; Mel 111-80; NSV 05567
BD +26°2333					+26°2333				Archer 3; Mel 111-B7; NSV 05570
HD 107793				107793	+26°2340				Archer 20; Mel 111-97; NSV 05580
IL Com				108102	+26°2347			IL Com	Mel 111-111; X1222+258 (MS)
V373 Cen								V373 Cen	
HR 4729			4729	108250		-62°00651	-62°02742		25G Cru
alp1 Cru	alp1 Cru		4730	108248		62°00652 A	-62°02745 A		Acrux; 26G Cru
alp2 Cru	alp2 Cru		4731	108249		62°00652 B	-62°02745 B		27G Cru; X1223-628 (1ES)
DD Com								DD Com	S 8060
18 Com		18 Com	4753	108722	+24°2464				8H Com; Mel 111-149
HD 108736				108736	+30°2281				Archer 19; NSV 05652

Name	Bayer	Flmstd	HR	HD	BD	CoD	CPD	Var	Other
4 Dra B		4 Dra B	4765 B	108907 B	70°0700B				AFGL 1555; IRC +70113
NSV 05679									Archer 4; NSV 05679
AL Com								AL Com	
RW Com								RW Com	33.1923
kap Dra	kap Dra	5 Dra	4787	109387	+70°0703			kap Dra	6H Dra; INCA 1132; MWC 222
BD +27°2151					+27°2151				Archer 7; NSV 05740
AM CVn								AM CVn	CBS 354; EG 91; HZ 29; PG 1232+379
RZ Com					+24°2475			RZ Com	5.1929; Archer 5
24 Com B		24 Com B	4791	109510	+19°2584				11H Com B; CSV 101297; IRC +20244; NS
BD +24°2476					+24°2476				Archer 17; NSV 05755
RV Crv				109796	-18°3431			RV Crv	HV 11068
Y Crv								Y Crv	287.1930; P 842
FH Mus			4814	110020		-65°01311	-65°01941	FH Mus	48G Mus
SX Crv				110139	-18°3437			SX Crv	
AX Dra								AX Dra	BV 40
HD 110533				110533	+84°0286				
HR 4821			4821	110317	12°3676B				8H Crv B; 43G Crv; NSV 05855
HD 110326				110326	+31°2397				
V591 Cen								V591 Cen	HV 10172
CD Cru				311884				CD Cru	BH 16-31; He 3-813; Hogg 15-3; LSS 2745;
HW Vir					-7°3477			HW Vir	PG 1241-084
10 CVn		10 CVn	4845	110897	+40°2570				GI 484
SS Com								SS Com	7.1929
HR 4892			4892	112014	+84°0289				32H Cam B
EX Hya								EX Hya	BPM 56555; HV 10215; X1249-289 (3A,1ES,
BU Cru				111934		-59°04458	-59°04543	BU Cru	49G Cru; LSS 2807; NGC 4755-I-6; NSV 060
CC Cru							-59°04551	CC Cru	NGC 4755-II-23
LW Hya					-22°3467	-22°09659	-22°05522	LW Hya	Abell 35 (nuc); PK 303+40°1
HR 4917			4917	112486	+54°1556				
GO Com								GO Com	CSV 1959; P 866; SVS 382
V485 Cen								V485 Cen	HV 10231
BF CVn					+36°2322			BF CVn	G 123-75; G 164-32; GI 490 A; Vys 298; X12
V839 Cen				112669		-36°08231	-36°05756	V839 Cen	CSV 1962; NSV 06044; S 4963
PSR 1257+12 ab									PSR 1257+12 ab
PSR 1257+12 ac									PSR 1257+12 ac

Name	Bayer	Flmstd	HR	HD	BD	CoD	CPD	Var	Other
DT Vir					+13°2618			DT Vir	CSV 6977; G 60-57; Gl 494; LFT 964; Ross
RZ Cen				113016		-63°00799	-63°02485	RZ Cen	141.1906; HV 1255
UY Vir				113158	-18°3528		-19°05351	UY Vir	HV 3603
CPD -63°2495							-63°02495		LSS 2883; PSR 1259-63

Name	Sp1	Sp2	T-JD 2400000	P	e	ome1	V0	K1	K2	v1 sin i	v2 sin i
HD 104631	B1III	B1III		7.373	0	-	-19.	108	126		
the1 Cru	A3[III-IV]m	[A5V]	19453.347	24.4828	0.609	358.869	-2.75	46.07	56.1	33	
the2 Cru	B2IV	[B7V]	19604.367	3.4280	0	-	+16.12	51.34		56	
BR Mus	(B3V)	(B3V)	44360.60296	0.798196848							
HD 104994	WN3pec			0.2824?	0	-	-	~40.			
ZZ Cru	B3V	(B7)	29262.748	1.862194							
GS Mus	ON9.7Iae		42464.515	1.740347	0	-	+2.4	12.4		85	
AI Cru	B2IVe	(B4III)	46567.4063	1.4177112	0	-	-12.	181	296		
HD 105287A	G5V	K3V	46094.46	0.3873549	0.015	348	-2.74	39.30	53.8		
W Crv			39647.766	0.38808083							
BD +26°2304	K4V	(K4V)		0.152							
V788 Cen	A2/5/F2m	(A4)	41370.496	4.966377							
TY UMa	F0V	F6	39532.4965	0.354538609							
CC Com	K5V:	K5V:	39583.5830	0.22068628	0.0	-	-10.2	122.0	235.9		
HR 4646	A5/F2/F5IV		36758.563	1.2709934	0.0	-	-2.2	69.8		79	
MU Cen	sdBe		46953.632	0.3421	0	-	-38.	(248::)	165	585 e	110
AH Vir	K0V	K0V	47569.6254	0.40752779	0		+10.	105	250		
UX CVn	sdB3n		41096.023	0.573703	0.09	340	-1.	130.			
EG UMa	DA4	M4V	44280.2504	0.667651	0	-	-32.9	81.7	124.7 e		
DK Dra	K1III	K1III	43445.95	64.44	0.0	-	-45.29	36.1	36.8	10*	10
AB Cru	O8Vne	(B1)	29235.019	3.4132987	0	-	-24.	67	351	105	
NSV 05543				[0.108]							
Corvus CV											
HR 4693	K2III-IV		32285.030	0.49116	0.30	180	-17.	36.6			
HD 107468	K1III	(K1III)		0.15?							
BD +26°2333	(F5V)	(G1V)		0.123							
HD 107793	F8V	(F8V)		0.129							
IL Com	F8V	F8V	38424.306	0.9616	0	-	-0.6	108	112	42.*	42
V373 Cen	sdBe			(0.371)	0	-	-	> =60.	> =70.	561: e	224
HR 4729	B4IV	[F6V]	38903.314	1.225155	0.024	314	+8.4	43.1		137	
alp1 Cru	B0.5IV	[B3V]	17642.3	75.7794	0.46	21	+11.9	41.7		117	
alp2 Cru	B0.5Vn		23973.6	56.	0.25	191	-1.4	24.1		197	
DD Com	[K0]	(G9)	37779.410	0.2692061							
18 Com	F5III		39243.5	17.954	0.42	286	-42.5	11.5		93	
HD 108736	G0[V]			0.123							

Name	Sp1	Sp2	T-JD 2400000	P	e	ome1	V0	K1	K2	v1 sin i	v2 sin i
4 Dra B	sdBe			0.16562							
NSV 05679	(K3V)	(K3V)		0.0829							
AL Com	sdBe			(0.097: ACP)							
RW Com	G5-G8 (K0V)	(G6V)	40022.4163	0.2373459	0	-	-53.	78.	226		
kap Dra	B6IIIpe		15772.91	61.5549	0	-	-3.03	6.78		249	
BD +27°2151	F5V	(F5V)		0.12	0	-	-14.9	(7.6)		-	
AM CVn	DBp		37699.9992*	0.0121648423?			-	<30.			
RZ Com	G2Vn	(G0V)	34837.4198	0.33850604	0	-	-1.8	107.0	248.0		
24 Com B	A9Vm	(F3V)	44543.29	7.3361	0.26	300	+4.9	68.7	80.6	<=25.	<=2.5
BD +24°2476	(G2V)			0.118							
RV Crv	F2V	(G6V)	41029.384	0.7472521	0	-	+19.0	64.0	235		
Y Crv	A0V	(A0.5)	25620.646	0.4948130							
FH Mus	B8V	[K3V]	42536.45	0.58:	0	-	-3.0	(42:)			
SX Crv	F8V	(F6)	41017.4557	0.3166386							
AX Dra	F5		46522.1423	0.58616240							
HD 110533	F7V	F7[V]	44496.106	5.000233	0	-	-16.1	78.9	81.3		
HR 4821	F3Vn	[F7V]	28707.080	1.46047	0.088	86.8	-14.6	88.2	100		
HD 110326	A3-5/8/F0Vm	[M0V]	28285.101	2.7045	0.051	10.17	-8.6	40.7		55	
V591 Cen				[0.108]							
CD Cru	WN6	O5V	43921.5	6.2399	0	-	-70.	277	233		
HW Vir	sdB	(K4-5V)	45730.556071	0.1167196336	0	-	-12.5	87.9			
10 CVn	G0V	[M7V]	46069.5	5.924	0.45	221	+79.3	3.2		1	
SS Com	F5V	(F4)	25002.510	0.4127919							
HR 4892	A0V	A2V	24226.669	3.28655	0.0408	211.05	-0.05	108.34	128.86	17	17
EX Hya	sdBe	M5.5V	37699.94177	0.0682338422	0	-	-182.	69.		938 Sh; 650 e; 935	
BU Cru	B2Ib		43228.61	0.685?	0	-	-19.3	(10.5:)		15	
CC Cru	B0V	[B3V]	41046.0	3.2418	0	-	-8.	70.	209	180	
LW Hya	G8III		46537.024	0.7653	0	-	-50.		50. e	90	
HR 4917	A5(V)m	[A5V]	44370.993	5.12586	0	-	+0.7	65.8	69.7	20	20
GO Com	sdBe			0.066?							
V485 Cen				(0.167)							
BF CVn	M1.5Ve			(3.17)							
V839 Cen	G5V	(G5V)	45805.7721	0.33092							
PSR 1257+12	psr		48105.3	66.562627	0.022	252	-	0.000429			
PSR 1257+12	psr		47998.6	98.233657	0.020	107	-	0.000313			

Name	Sp1	Sp2	T-JD 2400000	P	e	omel	V0	K1	K2	v1 sin i	v2 sin i
DT Vir	M2Ve			1.535							
RZ Cen	B1IV:n	(B1IV)	29342.942	1.8759517	0	-	+26.	83	196	185	
UY Vir	A9IV	(G6IV)	30021.661	1.9945051	0.30	269.65	+4.0	80.0		55	
CPD -63°2495	Be	psr			0.95						

Name	Spectroscopic orbit
HD 104631	Thackeray, A.D., Tritton, S.B., Walker, E.N. 1973, MemRAS, 77, 199
the1 Cru	Moore, F.C. 1931, Lick Bull., 15, 144
the2 Cru	Grattin, D.S. 1926, PASP, 38, 393
BR Mus	
HD 104994	Van Genderen, A.M., et al. 1991, IAU Symp. 143, 129
ZZ Cru	
GS Mus	Harmanec, P. 1987, BAC, 38, 283
AI Cru	Bell, S.A., Kilkenny, D., Malcolm, G.J. 1987, MN, 226, 879
HD 105287A	Imbert, M. 1988, AAp Suppl., 76, 459
W Crv	
BD +26°2304	
V788 Cen	
TY UMa	
CC Com	Rucinski, S.M., Whelan, J., Worden, S. 1977, PASP, 89, 684
HR 4646	Abt, H.A. 1961, ApJ Suppl., 6, 37
MU Cen	(Wargau, W. 1980, Ph.D. Thesis, U. Erlangen-Nürnberg); Friend, M.T., Martin, J.S., Smith, R.C., Jones, D.H.P. 1990, MN, 246, 654
AH Vir	Chang, Y.C. 1948, ApJ, 107, 96
UX CVn	Young, A., Nelson, B., Mielbrecht, R. 1972, ApJ, 174, 27
EG UMa	Stauffer, J.R. 1987, AJ, 94, 996
DK Dra	Bopp, B.W., Fekel, F., Jr., Griffin, R.F., Beavers, W.I., Gunn, J.E., Edwards, D. 1979, AJ, 84, 1763
AB Cru	(Feast, M.W., Thackeray, A.D., Wesselink, A.J. 1963, MemRAS, 68, 1)
NSV 05543	
Corvus CV	
HR 4693	Fehrenbach, C. 1947, Ann Ap, 11, 35
HD 107468	
BD +26°2333	
HD 107793	
IL Com	Kraft, R.P. 1965, ApJ, 142, 681
V373 Cen	(Wargau, W., Vogt, N. 1982, Mitt. AG, 55, 77)
HR 4729	Hernandez, C.A., Henandez, E.B. 1979, Rev. Mex. AAp, 4, 297
alp1 Cru	Thackeray, A.D., Wegner, G. 1980, MN, 191, 217
alp2 Cru	Luyten, W.J. 1935, PASP, 47, 263
DD Com	
18 Com	Abt, H.A., Levy, S.G. 1976, ApJ Suppl., 30, 273
HD 108736	

Name	Spectroscopic orbit
4 Dra B	
NSV 05679	
AL Com	
RW Com	Milone, E.F., et al. 1985, AJ, 90, 109
kap Dra	Juza, K., Harmanec, P., Hill, G.M., Tarasov, A.E., Matthews, J.M., Tuominen, I., Yang, S. 1991, BAC, 42, 39
BD +27°2151	(Hill, G., Fischer, W.A., Adamson, A.J., Hilditch, R.W., Sinclair, C.D. 1988, Pub DAO, 16, 297)
AM CVn	Robinson, E.L., Faulkner, J. 1975, ApJ, 200, L23
RZ Com	McLean, B.J., Hilditch, R.W. 1983, MN, 203, 1
24 Com B	Mayor, M., Mazeh, T. 1987, Astr. Ap., 171, 157
BD +24°2476	
RV Crv	McFarlane, T.M., Hilditch, R.W., King, D.J. 1986, MN, 223, 595
Y Crv	
FH Mus	(Hube, D.P. 1970, MemRAS, 72, 233)
SX Crv	
AX Dra	
HD 110533	Mayor, M., Mazeh, T. 1987, Astr. Ap., 171, 157
HR 4821	Sanford, R.F., Karr, E. 1942, ApJ, 96, 214
HD 110326	Shajn, G.A. 1937, Pulkovo Circ., No. 21, p. 35
V591 Cen	
CD Cru	Niemela, V.S., Conti, P.S., Massey, P. 1980, ApJ, 241, 1050
HW Vir	Menzies, J.W., Marang, F. 1986, IAU Symp No. 118, p. 305.
10 CVn	Abt, H.A., Willmarth, D.W. 1987, ApJ, 318, 786
SS Com	
HR 4892	Plaskett, J.S. 1926, Pub. DAO, 3, 247
EX Hya	Hellier, C., Mason, K.O., Rosen, S.R., Cordova, F.A. 1987, MN, 228, 463
BU Cru	(Hernandez, C. 1960, PASP, 72, 416; Feast, M.W. 1963, MN, 126, 11)
CC Cru	(Feast, M.W. 1963, MN, 126, 11)
LW Hya	Acker, A., Jasniewicz, G. 1990, AAp, 238, 325
HR 4917	Worek, T.F., Zizka, E.R., King, M.W., Beardsley, W.R. 1986, PASP, 98, 238
GO Com	
V485 Cen	
BF CVn	
V839 Cen	
PSR 1257+12	Wolszczan, A., Frail, D.A. 1992, Nature, 355, 145
PSR 1257+12	Wolszczan, A., Frail, D.A. 1992, Nature, 355, 145

Name	Spectroscopic orbit
DT Vir	
RZ Cen	(Feast, M.W., Thackeray, A.D., Wesselink, A.J. 1963, MemRAS, 68, 1)
UY Vir	Herbig, G.H. 1947, ApJ, 106, 112
CPD -63°2495	Kaspi, V.M., Johnston, S., Manchester, R.N., Lyne, A.G., Bailes, M., Guojun, Q., D'Amico, N. 1991, BAAS, 23, 1420

Name	V	B-V	U-B	R-I	E(B-V)	par	Cluster	ADS	Vis Binary	Companions
HD 104631	6.77	+0.08	-0.75							
the1 Cru	4.332	+0.274	+0.051	+0.18	0.16	0.021;	Hyades scl; (NGC 4052)		CapO 55 A	13.6, 4.5"
the2 Cru	4.72	-0.08	-0.61	-0.10	0.14		Sco-Cen?			
BR Mus	10.64	+0.10	-0.53		0.28					
HD 104994	10.90	-0.02	-0.14		0.40 u					
ZZ Cru	9.61	+0.04	-0.63							
GS Mus	7.41	+0.07	-0.86							
AI Cru	9.491				0.32		NGC 4103			
HD 105287A	8.08	+0.78						8428 A	Sig 1602 A	Ac: P=2378.8d, unresolved; B: 9.6, 1
W Crv	11.16	+0.66	+0.16							
BD +26°2304	10.5 v						Com			
V788 Cen	5.74	+0.24	+0.16	+0.11C						
TY UMa	11.50	+0.68								
CC Com	11.30	+1.23	+1.03				Com			13, 63"
HR 4646	5.14	+0.33	+0.10			0.031				
MU Cen	11.8 V				0.03					
AH Vir	9.20	+0.78	+0.33		0.00	A0.013	Wolf 630 gp	8472 A	Hu 1137 A	13.1, 1.3"
UX CVn	13.07	-0.29	-1.05							
EG UMa	13.30	+0.50	-0.49			0.0334	(UMa)			
DK Dra	6.29	+1.14		+0.56						
AB Cru	8.42	+0.14	-0.78				Cru OB1?			
NSV 05543	12.0 p				0.06 m					
Corvus CV	13.0									
HR 4693	5.54	+1.09	+1.07	+0.54						
HD 107468	8.07	+1.06	+0.95	+0.53	0.00		(Com)			
BD +26°2333	10.31	+0.51	-0.02		0.03		(Com)			
HD 107793	9.12	+0.54	+0.01	+0.28	0.00		Com			
IL Com	8.16	+0.518	-0.01	+0.30			Com			
V373 Cen	13.90	+0.04	-0.81		0.00					ftr, 4" np
HR 4729	4.845	-0.133	-0.597		0.05		(Cru OB1)		alp Cru C	0.79V, B1IV+B3N, 4.4"
alp1 Cru	1.35	-0.26	-0.96	-0.24	0.02	D0.008	(Cru OB1)		alp Cru A (orb)	1.75V, B3N, 0.916"
alp2 Cru	1.73	-0.26	-0.95			D0.008	<Cru OB1>		alp Cru B (orb)	1.58V, B0.5IV, 4.4"
DD Com	14.3 B									
18 Com	5.48	+0.43	+0.09				<Mel 111>			
HD 108736	9.40	+0.54	+0.07		0.00		Com	8570 A	bet 1324 A	

Name	V	B-V	U-B	R-I	E(B-V)	par	Cluster	ADS	Vis Binary	Companions
4 Dra B	4.95 D	+1.62	+1.81	+1.05E	0.15	0.016	HR 1614 gp		B	CQ Dra (M3IIIa), Porb=1703d
NSV 05679	10.46	+1.00	+1.00		0.03		Com			
AL Com	12.8	0.00	-0.47							
RW Com	11.00	+0.87	+0.44		0.10		(Com)			
kap Dra	3.87	-0.13	-0.57	-0.08		0.0115				
BD +27°2151	10.12	+0.46	+0.03		0.03		(Com)			
AM CVn	14.12	-0.20	-1.06	-0.08	0.06	0.012				
RZ Com	10.42	+0.54	-0.01				(Com)			
24 Com B	6.56	+0.25	+0.11	+0.16	0.00	0.002	Com	8600 B	Sig 1657 B	5.02V, K2III, 20.2"
BD +24°2476	10.60	+0.66	+0.14		0.03		Com?			
RV Crv	8.62	+0.38			0.00					
Y Crv	11.0 p									
FH Mus	6.26	-0.05	-0.20		0.08					
SX Crv	9.05	+0.56	-0.01							
AX Dra	10.82									
HD 110533	7.2 v				0.05 m	0.001				
HR 4821	6.08 H	+0.42	+0.10		0.00	D0.014		8627 B	Sig 1669 B	5.98H, F5V, 5.4"
HD 110326	6.94	+0.27	+0.04	+0.14	0.03		Com			
V591 Cen	14.0 p				0.13 m					
CD Cru	11.08	+0.75	+0.34		1.23:		Ho 15			
HW Vir	10.46 B				0.06 m					
10 CVn	5.95	+0.55	-0.03	+0.29	0.00	0.063				
SS Com	11.3 B									
HR 4892	5.85	+0.01	-0.03		0.00			8682 B	Sig 1694 B	5.28V, A1III, 21.6"
EX Hya	11.7	-0.10	-1.00		0.00 u					
BU Cru	6.91	+0.24	-0.64		0.41		NGC 4755			
CC Cru	7.97	+0.20	-0.67		0.51		NGC 4755?			
LW Hya	9.61	+0.90	+0.93							
HR 4917	5.82 D	+0.19	+0.08	+0.08	0.00	D0.012		8710 A	Sig 1695 A	7.8, 3.5"; 10.4v, 124"
GO Com	13.1 p				0.06 m		(Com)			
V485 Cen	12.9 p				0.08					
BF CVn	10.60	+1.42	+1.13	+0.80C						G164-31: 13.16, dM3.5e, 17"
V839 Cen	9.51				0.041					
PSR 1257+12 ab										
PSR 1257+12 ac										

Name	V	B-V	U-B	R-I	E(B-V)	par	Cluster	ADS	Vis Binary	Companions
DT Vir	9.79	+1.44	+1.12	+1.082C	0.073					
RZ Cen	8.95	+0.19	-0.66		0.39		Cen OB1			
UY Vir	8.00									
CPD -63°2495	10.9 p									

Name	Vbl type	Min I	Min II	D	d	i	r1	r2	II	qph
HD 104631	-									
the1 Cru						44.22 s	0.096 ome			
the2 Cru	BCEP:					36.95 ome				
BR Mus	EW/KE	11.28	11.25			79.2	0.429	0.347	0.62 V	0.627
HD 104994										
ZZ Cru	EB/DM	10.1 B	9.8 B			84.	0.33	0.21	0.86 B	0.56
GS Mus	ACYG									
AI Cru	EA/KE	10.244	9.891	0.20		81.0	0.366	0.327	0.677 y	
HD 105287A										
W Crv	EB/KW:	12.50	11.86			87.0	0.419	0.371	0.698 V	0.757
BD +26°2304	EW:	(0.8 v)								
V788 Cen	EA/D	5.93	5.90	0.08		82.5	0.121	0.097	0.64 V	0.91
TY UMa	EW/KW	12.12	12.10			83.3	0.470	0.311	0.678 V	0.40
CC Com	EW/KW	12.21	12.09		0.03	85.2	0.4414	0.3237	0.6854 bol	0.510
HR 4646										
MU Cen	UGSS	14.78				28.53 s		(0.266: ome)		
AH Vir	EW/KW	9.79	9.72		0.064; 0.000	84.1	0.4896	0.2922	0.6745 y	0.318
UX CVn	ELL+E:	13.31	13.24							
EG UMa	NL	13.8 B								
DK Dra	RS									
AB Cru	EA/DM	9.20 B	8.90 B		0.07; 0.00	88.	0.391	0.196	0.87 B	0.53
NSV 05543	UG:	> 14.0 p				57.63 pi				
Corvus CV		18.8								
HR 4693	Const									
HD 107468	EW:	(0.8 v)								
BD +26°2333	EW:	(0.7 v)	(0.4 v)							
HD 107793	EW	(0.4 v)								
IL Com	RS:					51.77 s	0.163 ome	0.191 ome		
V373 Cen	UG	15.48				20.94 s		< = 1.72 ome		
HR 4729						45.69 ome				
alp1 Cru						58.49 pi				
alp2 Cru										
DD Com	EW/KW	15.05 B	14.90 B			82.	0.433	0.287	0.65 B	0.54
18 Com										
HD 108736	EW:	(0.4 v)								

Name	Vbl type	Min I	Min II	D	d	i	r1	r2	II	qph
4 Dra B										
NSV 05679	EW	(0.7 v)								
AL Com	UGSS	20.1				57.63 pi				
RW Com	EW/KW	11.70	11.56		0.04	75.2	0.485	0.300	0.6594 V	
kap Dra	GCAS									
BD +27°2151	EW	(0.5 v)								
AM CVn	Unique	(0.08)				57.63 pi				
RZ Com	EW/KW	11.13	11.09		0.043; 0.039	88.4	0.4630	0.3351	0.6189 y	0.478
24 Com B	-					69.03 s	< = 0.123 om	< = 0.012 om	0.62 s	
BD +24°2476	EW:	(1.0 v)								
RV Crv	EB/KE	9.17	8.92			86.5	0.492	0.272	0.9008 V	
Y Crv	EW/KE	11.7 p	11.7 p			81.	0.410	0.340	0.62 p	0.68
FH Mus	ELL:					32.83 pi				
SX Crv	EW/KW	9.25	9.23			65.5	0.425	0.295	0.64 V	0.59
AX Dra	EB	11.91	11.02			84.382	0.3803	0.2990	0.9225 V	0.7752
HD 110533						78.81 s			0.53 s	
HR 4821	E:					47.93 s				
HD 110326						56.08 pi				
V591 Cen	UG:	16.0 p				57.63 pi				
CD Cru	E:/WR					70. P				
HW Vir	EA/D	11.21 B	(0.1)			79.78	0.203	0.207	0.995 V	
10 CVn						55.47 pi				
SS Com	EW/KW	11.9 B	11.9 B			77.5	0.462	0.266	0.74 V	0.40
HR 4892						74.89 se	0.071 ome	0.071 ome	0.61 s	
EX Hya	UGSU+E	13.58		[0.0183]						
BU Cru	E:									
CC Cru	ELL:					40.53 s	0.645 ome			
LW Hya	R:	(0.07)								
HR 4917						45.55 s	0.15 ome	0.15 ome		
GO Com	UGSS	20. p				57.63 pi				
V485 Cen	UG	17.88				57.63 pi				
BF CVn	BY+UV:									
V839 Cen	EW/KW	10.13	10.03			90.0	0.510	0.261	0.792 bol	0.227
PSR 1257+12 ab										
PSR 1257+12 ac										

Name	Vbl type	Min I	Min II	D	d	i	r1	r2	II	qph
DT Vir	UV+BY									
RZ Cen	EA/SD	9.60	9.4			70.	0.39	0.39	0.46 v	
UY Vir	EA/DM	8.8	8.1	0.16	0.014	79.	0.207	0.267	0.78 V	0.28
CPD -63°2495										

Name	Photometric solution
HD 104631	
the1 Cru	
the2 Cru	
BR Mus	Qiao, G.J., Leung, K.C. 1985, unpubl.
HD 104994	(van Genderen, A.M., et al. 1991, IAU Symp. 143, 129)
ZZ Cru	Svechnikov, M.A., Kuznetsova, E.F. 1990, Katalog Priblizhennykh Fotometricheskikh i Absolyutnykh Elementov Zatmennykh Peremennykh Zvez
GS Mus	
AI Cru	Bell, S.A., Kilkenny, D., Malcolm, G.J. 1987, MN, 226, 879
HD 105287A	
W Crv	Lucy, L.B., Wilson, R.E. 1979, ApJ, 231, 502
BD +26°2304	(Archer, S. 1959, JBAA, 69, 157)
V788 Cen	Svechnikov, M.A., Kuznetsova, E.F. 1990, Katalog Priblizhennykh Fotometricheskikh i Absolyutnykh Elementov Zatmennykh Peremennykh Zvez
TY UMa	Broglia, P., Conconi, P. 1983, AAp Suppl., 51, 97
CC Com	Linnell, A.P., Olson, E.C. 1989, ApJ, 343, 909
HR 4646	
MU Cen	
AH Vir	Binnendijk, L. 1984, PASP, 96, 646
UX CVn	(Young, A., Nelson, B., Mielbrecht, R. 1972, ApJ, 174, 27)
EG UMa	
DK Dra	
AB Cru	Svechnikov, M.A., Kuznetsova, E.F. 1990, Katalog Priblizhennykh Fotometricheskikh i Absolyutnykh Elementov Zatmennykh Peremennykh Zvez
NSV 05543	
Corvus CV	
HR 4693	
HD 107468	
BD +26°2333	(Archer, S. 1959, JBAA, 69, 157)
HD 107793	(Archer, S. 1959, JBAA, 69, 157)
IL Com	
V373 Cen	
HR 4729	
alp1 Cru	
alp2 Cru	
DD Com	Svechnikov, M.A., Kuznetsova, E.F. 1990, Katalog Priblizhennykh Fotometricheskikh i Absolyutnykh Elementov Zatmennykh Peremennykh Zvez
18 Com	
HD 108736	

Name	Photometric solution
4 Dra B	
NSV 05679	(Archer, S. 1959, JBAA, 69, 157)
AL Com	
RW Com	Milone, E.F., Wilson, R.E., Hrivnak, B.J. 1987, ApJ, 319, 325
kap Dra	
BD +27°2151	(Archer, S. 1959, JBAA, 69, 157)
AM CVn	
RZ Com	Binnendijk, L. 1984, PASP, 96, 646
24 Com B	
BD +24°2476	
RV Crv	McFarlane, T.M., Hilditch, R.W., King, D.J. 1986, MN, 223, 595
Y Crv	Svechnikov, M.A., Kuznetsova, E.F. 1990, Katalog Priblizhennykh Fotometricheskikh i Absolyutnykh Elementov Zatmennykh Peremennykh Zvez
FH Mus	(Balona, L.A. 1977, MemRAS, 84, 101)
SX Crv	Svechnikov, M.A., Kuznetsova, E.F. 1990, Katalog Priblizhennykh Fotometricheskikh i Absolyutnykh Elementov Zatmennykh Peremennykh Zvez
AX Dra	Zhai, D.-S., Li, Q.-S., Xie, X.-F. 1988, AA Sin., 29, 367 (1989, Chinese AAp, 13, 216)
HD 110533	
HR 4821	
HD 110326	
V591 Cen	
CD Cru	Moffat, A.F.J., Drissen, L., Robert, C., Lamontagne, R., Cozol, R., Mousseau, N., Niemela, V.S., Cerruti, M.A., Seggewiss, W., van Weeren,
HW Vir	Menzies, J.W., Marang, F. 1986, IAU Symp No. 118, p. 305.
10 CVn	
SS Com	Svechnikov, M.A., Kuznetsova, E.F. 1990, Katalog Priblizhennykh Fotometricheskikh i Absolyutnykh Elementov Zatmennykh Peremennykh Zvez
HR 4892	
EX Hya	(Rosen, S.R., Mason, K.O., Cordova, F.A. 1988, MN, 231, 549)
BU Cru	(Jakate, S.M. 1978, AJ, 83, 1179)
CC Cru	
LW Hya	
HR 4917	
GO Com	
V485 Cen	
BF CVn	
V839 Cen	(Helt, B.E. 1985, IBVS 2699)
PSR 1257+12 ab	
PSR 1257+12 ac	

Name	Photometric solution
DT Vir	
RZ Cen	Sitterly, B.W. 1930, Contr. Princeton Obs., No. 11, p. 1
UY Vir	Svechnikov, M.A., Kuznetsova, E.F. 1990, Katalog Priblizhennykh Fotometricheskikh i Absolyutnykh Elementov Zatmennykh Peremennykh Zvez
CPD -63°2495	

Name	M1	M2	A	R1	R2	T1	T2	log L1	log L2	Distance	U	V	W
HD 104631													
the1 Cru	2.19 s	1.80								47.6 pi			
the2 Cru	10.96 s	3.61								311. s			
BR Mus	7.67 s'	4.81 phi								2220. phi			
HD 104994													
ZZ Cru													
GS Mus													
AI Cru	10.27	6.28								2020. phi			
HD 105287A													
W Crv													
BD +26°2304	0.79 s	0.00											
V788 Cen													
TY UMa													
CC Com	0.70	0.36											
HR 4646													
MU Cen	0.86	0.86 p								666. p			
AH Vir	1.35	0.57								78.3 phi			
UX CVn													
EG UMa													
DK Dra													
AB Cru	21.73	4.15											
NSV 05543	0.71 p	0.28 p								256. p			
Corvus CV													
HR 4693													
HD 107468	2.88 s	0.00								284. s			
BD +26°2333	1.15 s	0.00								190. s			
HD 107793	1.10 s	0.00								101. s			
IL Com	1.12 s	1.08 s								91.7 s			
V373 Cen	1.00	0.86 p								1940. p			
HR 4729	6.31 s	1.16								194. s			
alp1 Cru	18.20 s	7.53 pi								128. s			
alp2 Cru													
DD Com													
18 Com													
HD 108736	(1.05 s)	0.00								100. s			

Name	M1	M2	A	R1	R2	T1	T2	log L1	log L2	Distance	U	V	W
4 Dra B										96.8 WB			
NSV 05679	0.76 s	0.00								54.1 s			
AL Com													
RW Com	0.57	0.20								82.3 phi			
kap Dra													
BD +27°2151	1.20 s	0.00								193. s			
AM CVn	0.60 s	0.040 p											
RZ Com	1.10	0.47											
24 Com B	1.51 s	1.29								76.2 s			
BD +24°2476	1.00 s	0.00								145. s			
RV Crv	1.64	0.45								206. phi			
Y Crv													
FH Mus	3.02 s	0.73 pi								152. s			
SX Crv													
AX Dra													
HD 110533	1.15 s	1.11 s								58.9 s			
HR 4821	1.30 s	1.14								45.7 s			
HD 110326	1.58 s	0.53 pi								74.8 s			
V591 Cen	0.71 p	0.28 p								558. p			
CD Cru	47.22	56.14								3800. g			
HW Vir	0.65 s	0.181								185. phi			
10 CVn	1.05 s	0.031 pi								18.3 spi			
SS Com													
HR 4892	2.74 s	2.31 s								131. s			
EX Hya	0.97	0.146 p								110. k			
BU Cru	19.95 s	0.00								2040. s			
CC Cru	19.95 s	6.68								1270. s			
LW Hya													
HR 4917	1.87 s	1.77 s								93.9 s			
GO Com	0.89 p	0.72 p								540. p			
V485 Cen	0.89 p	0.50 p								408. p			
BF CVn													
V839 Cen	0.98 s'	0.22 phi								96.4 phi			
PSR 1257+12 ab													
PSR 1257+12 ac													

RA 12h

Name	M1	M2	A	R1	R2	T1	T2	log L1	log L2	Distance	U	V	W
DT Vir													
RZ Cen	3.57	1.51								3180. phi			
UY Vir	7.25	2.03											
CPD -63°2495													

Name	Notes
HD 104631	
the1 Cru	
the2 Cru	E? (del V=0.015)
BR Mus	
HD 104994	
ZZ Cru	
GS Mus	alp Cyg (del V=0.21)
AI Cru	
HD 105287A	
W Crv	
BD +26°2304	
V788 Cen	
TY UMa	
CC Com	
HR 4646	
MU Cen	UGSS
AH Vir	del m=1.5 y
UX CVn	log g1=3.9
EG UMa	mu=0.125"/yr, the=204.9°
DK Dra	RS (del V=0.28); *Pphtm=63.75d
AB Cru	O8Vne+(B4V), i=80.7, r1=0.328, r2=0.166, l1=0.929 V (lc: Gaposchkin, S.I. 1953, Ann. Harvard Obs., 113, 67)
NSV 05543	UG:
Corvus CV	DN
HR 4693	
HD 107468	cst (Tan, et al. 1986; Faulkner 1986)
BD +26°2333	cst (Tan, et al. 1986; Faulkner 1986)
HD 107793	cst (Faulkner 1986)
IL Com	(del V=0.04); *Pphtm=0.82d
V373 Cen	UG
HR 4729	
alp1 Cru	
alp2 Cru	
DD Com	
18 Com	Orbit doubtful (C.L. Morbey, R.F. Griffin 1987, ApJ, 317, 343)
HD 108736	EW?; cst (Tan, et al. 1986)

Name	Notes
4 Dra B	
NSV 05679	cst (Tan, et al. 1986)
AL Com	UGSS
RW Com	
kap Dra	Ppol=0.7868d (Clarke, D. 1990, AAp, 227, 151)
BD +27°2151	cst (Tan, et al. 1986; Faulkner 1986)
AM CVn	*-1.90x10-14 E2
RZ Com	del mv=0.9
24 Com B	del m=0.55
BD +24°2476	EW?; cst (Tan, et al. 1986)
RV Crv	del m=2.5V
Y Crv	Type RRc possible
FH Mus	Ell?
SX Crv	F8V+(F8V), i=56.7, r1=0.509, r2=0.262, l1=0.797 V, qph=0.230 (lc: Sanwal, N.B., et al. 1974, AAp Suppl., 13, 81)
AX Dra	
HD 110533	del m=0.11
HR 4821	
HD 110326	
V591 Cen	UG:; Not a CV? (Vogt & Bateson 1982 AAp Suppl., 48, 383)
CD Cru	
HW Vir	T1=26000K; T2=4500 K
10 CVn	Orbit not confirmed (Jasniewicz, G., Mayor, M. 1988, AAp, 203, 329; Duquennoy, A. Mayor, M., Halbwachs, J.-L. 1991, AAp Sup, 88, 281)
SS Com	
HR 4892	del m=0.49
EX Hya	
BU Cru	Ell? (6.80-6.90 V)
CC Cru	Ell: (del V=0.08)
LW Hya	RS; Porb>=6d according to O. Vilhu, B. Gustafsson, F.M. Walter 1991, AAp, 241, 167
HR 4917	
GO Com	UGSS
V485 Cen	UG
BF CVn	BY+UV: (10.50-10.60 V)
V839 Cen	
PSR 1257+12	DM=10.18
PSR 1257+12	DM=10.18

Name	Notes
DT Vir	UV+BY (Amp 0.05V)
RZ Cen	
UY Vir	A7V+(K3V), i=85.3, r1=0.181, r2=0.091, l1=0.983v (lc: Gaposchkin, S. 1953, Harvard Ann., 113, 67)
CPD -63°2495	

Name	RA(1950)	μ(RA)	Dec(1950)	μ(Dec)	Pos Ref	FK4	SRS	AGK3	SAO	GC	l	b
BI CVn	13 00 56.027	-0.05	+36 53 06.23	-3.2	AGK3			+36°1172			108.85	+80.18
GP Com	13 03 16.00	-1.91	+18 17 04.2	+9.9	(W83)						323.55	+80.31
xi2 Cen	13 03 58.753	-0.296	-49 38 19.89	-1.23	FK4	489	30489		223909	17773	305.49	+12.89
the Mus	13 04 52.075	-0.14	-65 02 21.47	-1.5	SAO				252162	17788	304.67	-02.49
HY Vir	13 05 55.345	-0.09	-02 24 46.32	+3.4	Per70		11442	-2°0783	139174		311.45	+59.91
V831 Cen	13 09 09.247	-0.60	-59 39 17.43	-3.6	Per70		42836		240645	17866	305.55	+02.85
HR 4980	13 09 47.153	+0.25	-59 33 00.38	-11.2	SAO				240653	17880	305.63	+02.94
PSR 1310+18	13 10 28.		+18 26								332.96	+79.76
NN Cen	13 11 05.		-60 36 30.		GCVS						305.71	+01.88
eta Mus	13 11 49.986	-0.581	-67 37 48.79	-1.67	FK4	493	30493		252224	17927	305.18	-05.13
V593 Cen	13 13 58.03		-62 21 45.6		AC						305.89	+00.10
WR 50	13 14 45.6		-62 10 19.		LS						306.00	+00.28
V840 Cen	13 17 42.36		-55 34 30.1		D87						307.07	+06.79
V606 Cen	13 18 22.400	-0.24	-60 15 32.94	+1.0	SAO				252281		306.64	+02.13
V790 Cen	13 19 20.755	-0.22	-60 42 38.14	-2.5	Per70		42870		252283	18084	306.70	+01.67
V803 Cen	13 20 50.		-41 28 56.								309.37	+20.72
zet1 UMa	13 21 54.916	+1.387	+55 11 09.46	-2.52	FK4	497			028737	18133	113.11	+61.58
V379 Cen	13 22 06.824	-0.15	-59 31 16.74	-1.7	SAO				240822		307.19	+02.81
alp Vir	13 22 33.301	-0.291	-10 54 03.36	-3.34	FK4	498	30498		157923	18144	316.11	+50.84
LSS 3074	13 23 40.5		-61 46 44.		LS						307.09	+00.55
V380 Cen	13 24 04.276	-0.24	-61 36 52.54	+0.6	SAO				252311		307.16	+00.70
AW Vir	13 25 00.	-0.36	+03 18 00.	-1.0	GCVS						324.20	+64.41
AX Vir	13 25 12.736	+0.06	+04 07 58.81	-0.5	AGK3			+4°1707			324.96	+65.18
FO Vir	13 27 14.065	-0.43	+01 21 16.65	-10.8	AGK3			+1°1561	119959	18244	323.99	+62.39
BV Cen	13 28 09.54	-0.29	-54 43 05.9	-1.1	L85						308.69	+07.45
FK Com	13 28 24.772	-0.46	+24 29 25.23	-3.0	AGK3			+24°1389	082867	18264	017.02	+80.68
V701 Cen	13 28 31.522	-0.26	-51 30 52.20	-3.4	SAO				240918		309.24	+10.61
1329-294	13 29 05.52		-29 25 33.6								313.34	+32.37
VZ CVn	13 29 43.743	+0.07	+28 50 29.55	-1.0	AGK3			+28°1334			044.48	+80.91
HD 117688	13 30 07.1		-62 03 36.		LS						307.80	+00.16
BH CVn	13 32 33.917	+0.691	+37 26 16.62	-1.33	FK4	502	30502	+37°1275	063623	18359	083.33	+76.41
UX UMa	13 34 42.10		+52 10 04.2		W83						107.03	+63.80
V747 Cen	13 36 22.63	-0.47	-44 50 41.2	-1.6	Cp00 ft						311.75	+16.95
RU UMi	13 37 38.72		+70 03 22.6		PI77						116.98	+46.77
AZ Vir	13 40 55.		+04 52 00.		GCVS						334.06	+64.30

Name	RA(1950)	μ(RA)	Dec(1950)	μ(Dec)	Pos Ref	FK4	SRS	AGK3	SAO	GC	l	b
HS Vir	13 41 00.7		-07 59 03.		PG						324.44	+52.44
HR 5163	13 41 17.921	-0.37	-05 14 51.96	-2.8	Per70		11828		139516	18562	326.12	+54.99
1 Cen	13 42 50.314	-3.654	-32 47 29.86	-14.98	FK4	506	30506		204812	18593	315.86	+28.46
OZ Cen	13 43 25.		-59 00 54.		GCVS						309.96	+02.85
HT Vir	13 43 36.039	-0.53	+05 21 56.68	-3.6	AGK3			+5°1861	120102	18609	335.97	+64.42
HD 120005	13 43 58.759	-2.08	+31 08 52.49	-10.3	AGK3			+31°1224	063733	18616	053.65	+77.45
3 Boo	13 44 23.997	-0.161	+25 57 08.51	-6.53	FK4	1358	31358	+25°1432	082993	18623	029.48	+77.55
BF Vir	13 45 18.592	+0.02	-00 20 44.98	-2.5	AGK3			-0°1866	139552		331.29	+59.14
CR Boo	13 46 25.9		+08 12 27.		PG						340.97	+66.49
nu Cen	13 46 29.739	-0.23	-41 26 21.52	-2.6	Per70		42950		224469	18665	314.41	+19.89
XY Boo	13 46 49.12	-0.17	+20 26 16.0	+2.3	(AC)						008.28	+75.08
V757 Cen	13 48 59.555	-0.98	-36 22 33.15	-7.2	SAO				204919		316.26	+24.68
V758 Cen	13 49 24.087	+0.04	-55 17 40.37	-0.3	SAO				241248		311.58	+06.30
DL Vir	13 49 54.667	-0.08	-18 27 46.33	+1.2	Per70		11912		158210	18747	322.53	+41.82
4 Cen	13 50 19.415	-0.14	-31 40 53.33	-1.9	Per70		42969		204944	18755	317.93	+29.14
zet Cen	13 52 24.510	-0.564	-47 02 34.87	-4.39	FK4	512	30512		224538	18809	314.07	+14.19
ZZ Boo	13 53 51.820	-0.68	+26 09 46.07	-1.1	AGK3			+26°1381	083080	18840	031.82	+75.48
BH Vir	13 55 50.215	-0.09	-01 25 04.50	-0.8	AGK3			-1°1800			334.84	+57.01
BO CVn	13 57 02.939	-0.20	+41 03 41.76	-2.8	AGK3			+41°1215	044828		081.73	+70.46

Name	Bayer	Flmstd	HR	HD	BD	CoD	CPD	Var	Other
BI CVn					+37°2356			BI CVn	BV 97; CSV 6984; NSV 06077
GP Com								GP Com	G 61-29; Gr 389; LTT 18284; WD 1303+182
xi2 Cen	xi2 Cen		4942	113791		-49°07644	-49°05733		173G Cen
the Mus	the Mus		4952	113904		-64°00699	-64°02183	the Mus	56G Mus; He 3-862; LSS 2933; MR 43; WR
HY Vir				114125	-1°2777			HY Vir	
V831 Cen	S2 Cen		4975	114529 A		-59°04614	-59°04815	V831 Cen	183G Cen; CSV 6999; NSV 06133
HR 4980			4980	114630		-59°04623	-59°04827		186G Cen; GJ 2099A
PSR 1310+18									PSR 1310+18
NN Cen								NN Cen	HV 6432
eta Mus	eta Mus		4993	114911		-67°01385	-67°02224	eta Mus	59G Mus
V593 Cen						-61°03721	-61°03558	V593 Cen	92.1907; HV 2944; Zi 988
WR 50									LSS 3013; MR 44; TH 17-84; WR 50
V840 Cen								V840 Cen	
V606 Cen				115937		-59°04688	-59°04923	V606 Cen	HV 6441; LSS 3043; P 3608
V790 Cen			5034	116072		-60°04639	-60°04627 B	V790 Cen	207G Cen; CSV 7024
V803 Cen								V803 Cen	AE-1
zet1 UMa	zet1 UMa	79 UMa	5054	116656	+55°1598				Mizar; 67H UMa; AFGL 1621S; CSV 101381
V379 Cen				116507		-59°04723	-59°04971	V379 Cen	616.1936
alp Vir	alp Vir	67 Vir	5056	116658	-10°3672			alp Vir	Spica; 30H Vir; 144G Vir; AFGL 1622; IRC
LSS 3074									LSS 3074
V380 Cen				116795		-61°03780	-61°03704	V380 Cen	617.1936
AW Vir								AW Vir	16.1935
AX Vir					+4°2748			AX Vir	17.1935
FO Vir				117362	+1°2819			FO Vir	151G Vir
BV Cen								BV Cen	HV 4647; X1328-547 (1ES)
FK Com				117555	+24°2592			FK Com	INCA 1140; X1328+244 (1ES)
V701 Cen				117470		-51°07566	-51°06128	V701 Cen	BV 513
1329-294									1329-294
VZ CVn				117777	+29°2423			VZ CVn	BV 332
HD 117688				117688		-61°03841	-61°03791		He 3-912; LSS 3114; MR 49; TH 17-90; WR
BH CVn			5110	118216	+37°2426			BH CVn	17H CVn; INCA 1143; X1332+374 (1ES,1H
UX UMa								UX UMa	MWC 861; SVS 365
V747 Cen				118695		-44°08789	-44°06453	V747 Cen	BV 845; CSV 2049; S 4973
RU UMi					+70°0751			RU UMi	BV 343
AZ Vir								AZ Vir	18.1935

Name	Bayer	Flmstd	HR	HD	BD	CoD	CPD	Var	Other
HS Vir								HS Vir	PG 1341-079
HR 5163			5163	119537	-4°3540				177G Vir
1 Cen	i Cen	1 Cen	5168	119756		-32°09603	-32°03479		265G Cen; Gl 525.1; X1342-327 (EXO)
OZ Cen								OZ Cen	HV 6479
HT Vir				119931 B	+5°2794			HT Vir	181G Vir
HD 120005				120005	+31°2540				
3 Boo		3 Boo	5182	120064	+26°2494				(19H CVn)
BF Vir				120166	+0°3102			BF Vir	19.1935; P 3639
CR Boo								CR Boo	PG 1346+082
nu Cen	nu Cen		5190	120307		-41°08171	-41°06479	nu Cen	272G Ven; CSV 101405; NSV 06454; Zi 102
XY Boo					+20°2874			XY Boo	21.1935; P 3643
V757 Cen				120734		-36°08903	-36°06160	V757 Cen	
V758 Cen				120738		-54°05438	-54°05772	V758 Cen	BV 1101
DL Vir				120901/2	-17°3949			DL Vir	195G Vir; BV 443
4 Cen	h Cen	4 Cen	5221	120955		-31°10729	-31°03699		284G Cen
zet Cen	zet Cen		5231	121263		-46°08949	-46°06560		289G Cen
ZZ Boo				121648	+26°2508			ZZ Boo	INCA 1147
BH Vir				121909	-0°2769			BH Vir	26.1935; P 3658
BO CVn					+41°2447			BO CVn	

Name	Sp1	Sp2	T-JD 2400000	P	e	ome1	V0	K1	K2	v1 sin i	v2 sin i
BI CVn	G0		45841.7710	0.3842105							
GP Com	DBe			0.032306	0	-	-	14.6		675 e; 811 Wi	
xi2 Cen	B1.5V	[B9.5V]	18077.493	7.649652	0.353	308.63	+14.3	38.8		51	
the Mus	WC6	O9.5/B0Iab	40672.364	18.341	0	-	-0.8	173	<6.		106.:
HY Vir	F2		47240.97128	2.73236							
V831 Cen	B8V	[M4V]	43547.867	0.6425413	0	-	+14.4	14.9		216:	
HR 4980	G0V	G0V	47189.8860	4.233422	0	-	+15.47	84.96	85.23	17.0*	16.5*
PSR 1310+18	(PSR)		47125.2	255.84	<0.01	-	-	7.1728			
NN Cen				(0.141 ACP)							
eta Mus	B8V	[A1V]	20606.722	20.0052	0.12	120	-8.1	56.5		268	
V593 Cen	B1V	(B1.5V)	45815.56344	0.75535990							
WR 50	WC6+abs			1.06?							
V840 Cen											
V606 Cen	B1/2Ib/II	(B4)	27952.354	1.495093							
V790 Cen	B2.5Vn	(B2.5V)	42829.022	1.2782237	0	-	0.0	(28.8)		233	
V803 Cen	DBp			0.01865?			-	<16.			
zet1 UMa	A1VpSrSi	(A1V)	36997.212	20.53860	0.537	104.16	-5.64	68.80	67.60	32	32
V379 Cen	B5V(n)		28402.23	1.874685							
alp Vir	B1III-IV	B2V	19529.03	4.014604	0.13	129	0.	116.0	197	159	102
LSS 3074	O4f+	O6-7:(f):		2.19:	0	-	-48.	225	203		
V380 Cen	B5V		27807.552	1.0872172	0.027 phi	72.9 phi					
AW Vir	F8V	(F6)	45022.645	0.35399695							
AX Vir	A0p		27570.444	0.7025268							
FO Vir	A7/F0/A7Vm	(K3IV-V)	45441.713	0.7755674	0	-	-46.8	37.4			
BV Cen	sdBe	G5-8IV-V	44137.5875	0.6101159	0	-	-47.	139	128	313 e	181
FK Com	G2IIIealpp+K3V		39253.4375	2.400285						159	
V701 Cen	A0V	A3IV-V	39243.2660	0.73844981							
1329-294	sdBe			0.159						658 e	
VZ CVn	F2V		38880.5804	0.84246163	0	-	-20.8	144.1	185.4		
HD 117688	WN7			2.44?							
BH CVn	F2IV	K2IV	43639.52	2.6131738	0	-	+6.43	11.15	20.53	28	
UX UMa	sdOpe	M4V	20238.24245	0.196671299	0	-	+22.	157.		595 Sh; 496 Wi	
V747 Cen	A9/F0V		36710.277	0.53719488	0	-	-	71.			
RU UMi	F0V	K5V	41596.3365	0.52492618	0	-	-12.0	91.9			
AZ Vir	F8V		43976.540	0.34966511							

Name	Sp1	Sp2	T-JD 2400000	P	e	ome1	V0	K1	K2	v1 sin i	v2 sin i
HS Vir	sdBe			0.155?							
HR 5163	A1V			~7.	0	-	-22.	~140.		<=38.	
1 Cen	F3IV	[M6V]	22737.382	9.94480	0.247	137.7	-23.91	6.00		86	
OZ Cen			26118.32	0.35577							
HT Vir	G0(V)	(G0V)	44044.5178	0.40767009							
HD 120005	F5		28711.847	39.28	0.786	326.7	-8.22	43.22			
3 Boo	A7V:	G5III	22014.483	36.04	0.490	258.15	+6.50	54.01	65.82	-	
BF Vir	A2V	(G4IV-V)	46070.684	0.640570	0	-	+9.	80			
CR Boo	DBp			0.01703?							
nu Cen	B2IV	[G6V]	16591.27	2.625283	0.13	222	+8.0	20.6		91	
XY Boo	F5V		39953.9621	0.37054663	0	-	+12.6	39.0	245.0		
V757 Cen	G2(V)	(G1V)	42308.69312	0.34316929	0	-	+50.	130	190		
V758 Cen	B9IV	(A7V)	44403.2797	0.58078556							
DL Vir	A3-5V	(G8IV)	38796.475	1.315475	0	-	-23.8	93.0		120	
4 Cen	B4IV	[K0V]	18823.406	6.930137	0.25	152	+4.8	21.0		27	
zet Cen	B2.5IV	[B3V]	29798.46	8.02352	0.5	290	+6.5	110.7	159.4	219	
ZZ Boo	F2IV/V	F2IV/V	38565.9192	4.9917440	0	-	-28.3	90.2	93.0		
BH Vir	F8V-IV	G2V	43230.609	0.81687161	0.0	-	-28.7	137.8	135.2	90	90.*
BO CVn	F0		46895.455	0.5174597							

Name	Spectroscopic orbit
BI CVn	
GP Com	Nather, R.E., Robinson, E.L., Stover, R.J. 1981, ApJ, 244, 269
xi2 Cen	Neubauer, F.J. 1931, Lick Bull., 15, 107
the Mus	Moffat, A.F.J., Seggewiss, W. 1977, AAp, 54, 607
HY Vir	
V831 Cen	(Campbell, W.W., Moore, J.H. 1928, Pub. Lick Obs., 16, 1)
HR 4980	Saar, S.H., Nordström, B., Andersen, J. 1990, AAp, 235, 291
PSR 1310+18	Kulkarni, S., Anderson, S., Prince, T. 1990, Nature, 349, 47
NN Cen	
eta Mus	Buscombe, W., Morris, P.M. 1961, MN, 123, 183
V593 Cen	
WR 50	
V840 Cen	
V606 Cen	
V790 Cen	(Neubauer, F.J. 1930, Lick Obs. Bull., 15, 46; Feast, M.W., Thackeray, A.D., Wesselink, A.J. 1955, MemRAS, 67, 251; Buscombe, W., Kenn
V803 Cen	O'Donoghue, D., Kilkenny, D. 1989, MN, 236, 319
zet1 UMa	Fehrenbach, Ch., Prevot, L. 1961, J. Obs., 44, 83
V379 Cen	
alp Vir	Dukes, R.J., Jr. 1974, ApJ, 192, 81; Shobbrook, R.R., Lamb, N.R., Herbison-Evans, D. 1972, MN, 156, 165
LSS 3074	Morrell, N.I., Niemela, V.S. 1990, Properties of Hot Luminous Stars (SF: ASP), p. 57
V380 Cen	
AW Vir	
AX Vir	
FO Vir	Mochnacki, S.W., Fernie, J.D., Lyons, R., Schmidt, F.H., Gray, R.O. 1986, AJ, 91, 1221
BV Cen	Gilliland, R.L. 1982, ApJ, 263, 302
FK Com	
V701 Cen	
1329-294	
VZ CVn	Popper, D.M. 1988, AJ, 95, 190
HD 117688	
BH CVn	Eker, Z., Doherty, L.R. 1987, MN, 228, 869
UX UMa	Shafter, A.W. 1984, AJ, 89, 1555
V747 Cen	Ammann, M., Mauder, H. 1976, Mitt. AG, 38, 232
RU UMi	Okazaki, A., Nakamura, Y., Yamasaki, A. 1988, PASJ, 40, 79
AZ Vir	

Name	Spectroscopic orbit
HS Vir	
HR 5163	Woolley, R., Penston, M.J., Harding, G.A., Martin, W.L., Sinclair, J.E., Haslam, C.M., Aslan, S., Savage, A., Aly, K., Asaad, A.S. 1981, R.
1 Cen	Spencer Jones, H. 1928, Cape Ann., 10, pt. 8, 57
OZ Cen	
HT Vir	
HD 120005	Shajn, G.A. 1939, Pulkovo Obs. Circ., No. 25, p. 26
3 Boo	Petrie, R.M. 1926, Pub. DAO, 3, 335
BF Vir	Kwee, K.K. 1952, BAN, 11, 499
CR Boo	
nu Cen	Levato, H., Malaroda, S., Morrell, N., Solivella, G. 1986, ApJ Suppl., 64, 487
XY Boo	McLean, B.J., Hilditch, R.W. 1983, MN, 203, 1
V757 Cen	Cerruti, M.A., Niemela, V.S. 1982, PASP, 94, 194
V758 Cen	
DL Vir	Schöffel, E.S., Popper, D.M. 1974, PASP, 86, 267
4 Cen	Levato, H., Malaroda, S., Morrell, N., Solivella, G. 1986, ApJ Suppl., 64, 487
zet Cen	Popper, D.M. 1942, ApJ, 97, 394; Maury, A.C. 1922, Harvard Circ., no. 233
ZZ Boo	Popper, D.M. 1983, AJ, 88, 1242
BH Vir	Abt, H.A. 1965, PASP, 77, 367
BO CVn	

Name	V	B-V	U-B	R-I	E(B-V)	par	Cluster	ADS	Vis Binary	Companions
BI CVn	10.24	+0.578	+0.045							
GP Com	15.69	-0.10	-0.97		0.05 m					
xi2 Cen	4.27	-0.19	-0.79	-0.20	0.04		Sco-Cen		Del 128 A	9.4, 25.1"
the Mus	5.77 D	-0.01	-0.27		0.27:		Cen OB1		Rmk 16 A	7.2, 5.3"
HY Vir	7.81								S 647 A	9.5, 41.9"
V831 Cen	4.60 D	-0.08	-0.38	-0.09	0.00	D0.014			lam 170 A (orb); I 4	5.7, B9V, 0.185"; 8.4v, 2"
HR 4980	6.16	+0.60	+0.08	+0.19					CorO 152 A	9.5v, 25.3"
PSR 1310+18					0.00		NGC 5024			
NN Cen	13.2 p				0.16 m					
eta Mus	4.80	-0.08	-0.35	-0.08	0.00				Del 131 A	7.30, A0, 60"
V593 Cen	10.5 p						Cen OB1			
WR 50	12.56	+0.65	+0.67		0.98		anon Cen			
V840 Cen	14.5 v									
V606 Cen	9.4						Cen OB1			
V790 Cen	6.15	+0.01	-0.58				(Cen OB3)		Del 133 C	
V803 Cen	13.75	-0.12	-0.88		0.16					
zet1 UMa	2.27	+0.02	+0.03	-0.02	0.00	0.047;	UMa	8891 A	Sig 1744 A (orb)	3.95, A1m, 0.13"
V379 Cen	8.4	+0.09								
alp Vir	0.98	-0.23	-0.93	-0.24	0.03	0.023			bet pm A	3.1, 0.0025"; 4.5, 0.05"; 7.5, 0.5"; 1
LSS 3074	12.6									
V380 Cen	9.51	+0.09	-0.48						B A	14, 8"
AW Vir	11.0 v									
AX Vir	10.0 v									
FO Vir	6.51			+0.16	0.00				J 2091 A	12.9, 22.8"
BV Cen	10.5 v				0.15 u					
FK Com	8.18	+0.88	+0.44	+0.48				8929 C	h 70 C	7.5, 71.4"; 13.0, 90.7"; 12.7, 142.6"
V701 Cen	9.12 D	+0.108	-0.193						I 930 A	9.98 V, +0.252, -0.187, A0-2IV-V, 1
1329-294										
VZ CVn	9.23	+0.35	+0.02							
HD 117688	10.73	+0.40	+0.09		0.69					
BH CVn	4.98	+0.38	+0.05	+0.19		0.0192;	R0.0204			
UX UMa	12.81	+0.07	-0.76		0.00 u					
V747 Cen	9.86	+0.38								
RU UMi	10.03									
AZ Vir	10.75	+0.50	-0.26							

Name	V	B-V	U-B	R-I	E(B-V)	par	Cluster	ADS	Vis Binary	Companions
HS Vir	13.0 B				0.07 m					
HR 5163	6.51	+0.05	+0.01							
1 Cen	4.23	+0.38	0.00	+0.21	0.00	0.051				
OZ Cen	12.6 p									
HT Vir	7.06 D	+0.55	+0.04					9019 B	Sig 1781 B (orb)	0.26", 312y
HD 120005	6.55									
3 Boo	5.95	+0.49	+0.10		0.00					
BF Vir	10.5 v	+0.16			0.07					
CR Boo	14.54	-0.11	-0.94		0.06 m					
nu Cen	3.41	-0.22	-0.84	-0.23	0.01		Sco-Cen			
XY Boo	10.3									
V757 Cen	8.40:	+0.65	+0.04		0.02					
V758 Cen	9.46	+0.10	-0.19		0.14					
DL Vir	6.95	+0.62	+0.33		0.02					7.43V, G8III/IV, 0", P=2286d
4 Cen	4.73 D	-0.14	-0.54	-0.08	0.09		Sco-Cen		H N 51 A	8.47, +0.29, -0.55, Am, 14.9"
zet Cen	2.55	-0.22	-0.92	-0.20	0.00					
ZZ Boo	6.79	+0.36	-0.01		0.01					
BH Vir	9.60	+0.57	+0.08							
BO CVn	9.54	+0.299	-0.002							

Name	Vbl type	Min I	Min II	D	d	i	r1	r2	II	qph
BI CVn	EW/KW	10.69	10.69			69.2	0.4050	0.3792	0.535 V	0.865
GP Com	Unique	(0.6)				49.34 w				
xi2 Cen						54.31 pi				
the Mus	E+WR					>39.98 s		0.59: ome		
HY Vir	EA	8.10	8.05			80.1	0.19	0.15	0.577 V	
V831 Cen	ELL:	4.65	4.63			36.94 pi				
HR 4980							0.100 ome	0.097 ome		
PSR 1310+18										
NN Cen	UGSS	17.5 p				57.63 pi				
eta Mus	E					84.36 pi				
V593 Cen	EW/KE	11.3 p	11.2 p			83.5	0.419	0.331	0.65 p	0.62
WR 50										
V840 Cen	NL									
V606 Cen	EB/KE	10.25	9.8			85.	0.457	0.300	0.80 V	0.42
V790 Cen	BCEP:	6.33	6.23		0.00	57.1	0.397	0.251	0.85	0.78
V803 Cen	RCB	17				57.63 pi				
zet1 UMa	-					60.	0.087 ome	0.087 ome	0.51 s	
V379 Cen	EA/SD	(0.8 p)	(0.1 p)	0.18		84.2	0.275	0.275	0.784 v	
alp Vir	ELL+BCEP					65.9	0.465 ome	0.298 ome	0.798 s	
LSS 3074										
V380 Cen	EA/KE	(0.5 p)	(0.3 p)	0.2		76.7	0.330	0.429	0.728 p	
AW Vir	EW/KW	11.81	11.67			83.0	0.465	0.265	0.72 V	0.39
AX Vir	EB/KE	10.81	10.24			82.6	0.435	0.304	0.9342 V	0.420
FO Vir	EB/KE	6.82	6.66		0.04:	72.2	0.54	0.23	0.976 V	0.15
BV Cen	UGSS+E/WD	12.97				61.5		0.68 ome	0.5 B*	.
FK Com	FKCOM									
V701 Cen	EB/KE	9.51	9.29		0.026	88.4	0.413	0.338	0.474 y*	0.617
1329-294		17.86								
VZ CVn	EA/DW	9.72	9.53	0.17		79.88	0.316	0.227	0.775 V	
HD 117688										
BH CVn	RS					9.03 s	(0.315)	(0.327)	0.83 R	
UX UMa	EA/WD+NL	14.15		[0.053]		75.				
V747 Cen	EB/KE	10.46	10.05			87.83	0.483	0.284	0.971 V	0.319
RU UMi	EB/DW	10.66	10.20			85.	0.447	0.267	0.95 V	0.32
AZ Vir	EW/KW	11.33	11.33			69.7	0.373	0.439	0.4675 bol	2

Name	Vbl type	Min I	Min II	D	d	i	r1	r2	II	qph
HS Vir	NL	15.8 B				57.63 pi				
HR 5163										
1 Cen						54.42 pi				
OZ Cen	EW/KW	13.1 p								
HT Vir	EW/KW	7.48	7.48			84.0	0.345	0.399	0.350*	1.33
HD 120005										
3 Boo						86.16 se			0.63 s	
BF Vir	EB/KE:	11.23	10.72		>0.	85.51	0.434	0.286	0.966 B	0.331
CR Boo	AM:					57.63 pi				
nu Cen	ELL:+BCEP					47.28 pi				
XY Boo	EW/KW	10.61	10.61			69.5	0.563	0.261	0.797 V	(0.159 assume
V757 Cen	EW/KW	8.8	8.7			69.31	0.424	0.354	0.577	0.671
V758 Cen	EW/KE	10.02	9.77		0.07	90.0	0.466	0.263	0.916 V	0.387
DL Vir	EA	7.31	6.98	0.14		83.4	0.248	0.324	0.302 V*	(0.5208)
4 Cen						52.25 pi				
zet Cen						62.09 s	0.334 ome			
ZZ Boo	EA/DM	7.44	7.44	0.06		88.5	0.125	0.115	0.540 V	
BH Vir	EA/DW/RS:	10.56	10.24	0.16		86.8	0.256	0.234	0.637 V	
BO CVn	EW	10.02	10.00							

Name	Photometric solution
BI CVn	Liu, X-F., Leung, K.-C., Tan, H.-S. 1988, Critical Observations versus Physical Models of Close Binary Systems, ed. K.C. Leung (New York: G
GP Com	
xi2 Cen	
the Mus	(Moffat, A.F.J., Seggewiss, W. 1977, AAp, 54, 607)
HY Vir	Casas, R., Gomez-Forrellad, J.M. 1989, IBVS 3337
V831 Cen	(Waelkens, C., Bartholdi, P. 1982, AAp, 108, 51)
HR 4980	
PSR 1310+18	
NN Cen	
eta Mus	(Moffat, A.F.J., Seggewiss, W. 1977, AAp, 54, 607)
V593 Cen	Svechnikov, M.A., Kuznetsova, E.F. 1990, Katalog Priblizhennykh Fotometricheskikh i Absolyutnykh Elementov Zatmennykh Peremennykh Zvez
WR 50	
V840 Cen	
V606 Cen	Svechnikov, M.A., Kuznetsova, E.F. 1990, Katalog Priblizhennykh Fotometricheskikh i Absolyutnykh Elementov Zatmennykh Peremennykh Zvez
V790 Cen	Qiao, G.J., Leung, K.C. 1988, unpub (in Leung, K.C. 1988, IAU Colloq. 107, in press)
V803 Cen	
zet1 UMa	Pease, F.G. 1927, PASP, 39, 313
V379 Cen	O'Connell, D.J.K. 1936, Publ. Riverview Obs., 1, no. 3
alp Vir	Herbison-Evans, D., et al. 1971, MN, 151, 161
LSS 3074	
V380 Cen	Muzafarov, A.Sh. 1940, Byull. Astr. Obs. Engelhardt, Kazan, No. 18, p. 35
AW Vir	Svechnikov, M.A., Kuznetsova, E.F. 1990, Katalog Priblizhennykh Fotometricheskikh i Absolyutnykh Elementov Zatmennykh Peremennykh Zvez
AX Vir	Leung, K.-C., Zhai, D., Liu, Q., Yang, Y. 1985, AJ, 90, 115
FO Vir	Mochnacki, S.W., Fernie, J.D., Lyons, R., Schmidt, F.H., Gray, R.O. 1986, AJ, 91, 1221
BV Cen	Vogt, N., Breysacher, J. 1980, ApJ, 235, 945; Gilliland, R.L. 1982, ApJ, 263, 302
FK Com	
V701 Cen	Milano, L., Riguti, M., Russo, G., Vittone, A. 1988, AAp, 193, 168
1329-294	Kubiak, M., Krzeminski, W. 1989, PASP, 101, 667
VZ CVn	Cester, B., Mardirossian, F., Pucillo, M. 1977, AAp, 56, 75
HD 117688	(van Genderen, A.M., et al. 1991, IAU Symp. 143, 129)
BH CVn	Eker, Z., Doherty, L.R. 1987, MN, 228, 869
UX UMa	Petterson, J.A. 1980, ApJ, 241, 247
V747 Cen	Barone, F., Covino, E., Di Fiore, L., Milano, L., Russo, G. 1991, ApSpSci, 183, 117
RU UMi	Okazaki, A., Nakamura, Y., Yamasaki, A. 1988, PASJ, 40, 79
AZ Vir	Giuricin, G., Mardirossian, F., Mezzetti, M. 1982, AN, 303, 215

Name	Photometric solution
HS Vir	
HR 5163	
1 Cen	
OZ Cen	
HT Vir	Qiao, G.J., Leung, K.C. 1988, unpub. (in Leung, K.C. 1988, IAU Colloq. 107, in press)
HD 120005	
3 Boo	
BF Vir	Russo, G., Sollazzo, C. 1981, ApSpSci, 78, 141
CR Boo	
nu Cen	(Waelkens, C., Rufener, F. 1983, AAp, 121, 45)
XY Boo	Awadalla, N.S., Yamasaki, A. 1984, ApSpSci, 107, 347
V757 Cen	Maceroni, C., Milano, L., Russo, G. 1984, AAp Suppl., 58, 405
V758 Cen	Lipari, S.L., Sisteró, R.F. 1985, ApSpSci, 109, 271
DL Vir	Schöffel, E. 1977, AAp, 61, 107
4 Cen	
zet Cen	
ZZ Boo	Cester, B., et al. 1977, AAp Suppl., 32, 347
BH Vir	Zeilik, M., Ledlow, M., Rhodes, M., Arevalo, M.J., Budding, E. 1990, ApJ, 354, 352
BO CVn	(Oja, T. 1989, IBVS 3288)

Name	M1	M2	A	R1	R2	T1	T2	log L1	log L2	Distance	U	V	W
BI CVn													
GP Com	0.31 w	0.0135 p								164. phi			
xi2 Cen	11.22 s	2.36 pi								260. s			
the Mus	<1.38	39.81 s								2400. g			
HY Vir													
V831 Cen	3.02 s	0.22 pi								101. spi			
HR 4980													
PSR 1310+18										18500. g			
NN Cen	0.89 p	0.72 p								463. p			
eta Mus	3.02 s	2.15 pi								102. s			
V593 Cen													
WR 50										3600. g			
V840 Cen													
V606 Cen													
V790 Cen													
V803 Cen	0.60 s	0.025 p								376. phi			
zet1 UMa	2.47	2.52								21.6 pi			
V379 Cen													
alp Vir	10.29	6.06								84. phi			
LSS 3074													
V380 Cen													
AW Vir													
AX Vir													
FO Vir	1.91	0.29								98.6 phi			
BV Cen	0.85	0.92											
FK Com													
V701 Cen													
1329-294													
VZ CVn	1.84	1.43											
HD 117688													
BH CVn	1.45 s	0.79								58.9 phi			
UX UMa													
V747 Cen	0.64	0.25											
RU UMi	2.27	0.73											
AZ Vir													

Name	M1	M2	A	R1	R2	T1	T2	log L1	log L2	Distance	U	V	W
HS Vir	0.89 p	0.55 p								453. p			
HR 5163													
1 Cen	1.41 s	0.095 pi								21.8 spi			
OZ Cen													
HT Vir													
HD 120005													
3 Boo	2.36 se	1.94								103. s			
BF Vir	1.68	0.55								571. phi			
CR Boo	0.60 s	0.027 p								510. phi			
nu Cen	10.96 s	0.94 pi								199. s			
XY Boo	0.92	0.147											
V757 Cen	0.84	0.58								66.9 phi			
V758 Cen	(2.82 s)	(1.09 phi)								466. phi			
DL Vir	1.83	0.95								200. phi			
4 Cen	6.31 s	0.86 pi								177. s			
zet Cen	9.12 s	6.33								129. s			
ZZ Boo	1.62	1.57								117. phi			
BH Vir	0.86	0.87											
BO CVn													

Name	Notes
BI CVn	
GP Com	*
xi2 Cen	
the Mus	
HY Vir	
V831 Cen	(4.54-4.65 V) Ell; Vis. orb: P=27.0y, T=1941.1, a=0.185", e=0.32, i=68.3°, ome=168.5°, Ome=114.6° (Finsen, W.S. 1964, Rep. Obs. Cir
HR 4980	*Prot=4d
PSR 1310+18	DM=24.0
NN Cen	UGSS
eta Mus	E? (del V=0.1)
V593 Cen	BIV+(B1V), i=79.4, r1=0.424, r2=0.335, l1=0.616 p, qph=0.595 (lc: van Gent, H. 1948, BAN, 10, 382)
WR 50	
V840 Cen	Vmax=7.5; t3=121d; Z AND
V606 Cen	B1/2Ib/II+(B2V), i=82.4, r1=0.400, 0.359, 0.626 p (lc: Hertzsprung, E. 1950, Leiden Ann., 20, 119)
V790 Cen	
V803 Cen	
zet1 UMa	del m=0.03; Vis. orb: P=0.056y, T=1927.445, a=0.012", e=0.53, i=60°, ome=284°, Ome=102° (Pease, F.G. 1927, PASP, 39, 313)
V379 Cen	
alp Vir	del m=1.49; U=108y; Ell(betC) (del V=0.0)
LSS 3074	
V380 Cen	
AW Vir	
AX Vir	Barone, et al. (1991 ApSpSci, 183, 117): i=84.17, r1=0.400, r2=0.264, l1=0.950 V, qph=0.674
FO Vir	
BV Cen	*@ B=13.8
FK Com	FKCOM (V=8.14-8.33); M-m=0.40:p
V701 Cen	*13=0.357 y
1329-294	
VZ CVn	
HD 117688	
BH CVn	(Amp=0.010V)
UX UMa	
V747 Cen	
RU UMi	
AZ Vir	

Name	Notes
HS Vir	NL
HR 5163	
1 Cen	del Sct? (del V=0.02)
OZ Cen	
HT Vir	(B-V)I,II=+0.56; (U-B)I=-0.03; *13=0.184; Vis. orb: P=274y, T=1975.6, a=1.010", e=0.638, i=42.7°, ome=70.0°, Ome=176.4° (Heintz,
HD 120005	
3 Boo	del m=0.60
BF Vir	
CR Boo	
nu Cen	Be pulsator, not binary (J. Cuypers, L.A. Balona, F. Marang 1989, AAp Suppl., 81, 151)
XY Boo	
V757 Cen	
V758 Cen	
DL Vir	*13=0.645V
4 Cen	
zet Cen	
ZZ Boo	del m=0.13
BH Vir	del m=0.31V; (B-V)I,II=+0.54,+0.64; *Pphtm~~Porb
BO CVn	

Name	RA(1950)	μ(RA)	Dec(1950)	μ(Dec)	Pos Ref	FK4	SRS	AGK3	SAO	GC	l	b
Z Aps	14 02 39.39		-71 07 58.8		AC						308.94	-09.38
TU Boo	14 02 44.13	-0.10	+30 14 19.7	+1.4	(Sch29)						047.35	+73.62
alp Dra	14 03 01.963	-0.905	+64 36 51.57	+1.48	FK4	521		+64°0666	016273	19019	110.52	+50.96
V834 Cen	14 05 58.2		-45 03 04.6								316.98	+15.45
CX Vir	14 06 43.		-15 20 54.		GCVS						329.14	+43.28
V759 Cen	14 07 28.904	-0.67	-47 31 59.91	-1.6	SAO				224743	19113	316.46	+13.01
12 Boo	14 08 07.066	-0.172	+25 19 39.84	-6.42	FK4	522	30522	+25°1460	083203	19127	030.82	+72.18
V504 Cen	14 09 45.		-40 07		GCVS						319.30	+19.92
V716 Cen	14 10 15.197	-0.18	-54 23 31.03	-1.8	SAO				241552	19169	314.73	+06.35
HR 5317	14 11 05.875	+1.36	-00 36 36.88	-14.7	Per70		43015	-0°1901	139798	19188	341.52	+55.74
GK Vir	14 13 03.6		+01 31 13.		PG						344.45	+57.21
RR Cen	14 13 24.877	-0.83	-57 37 22.09	-3.9	SAO				241587	19246	314.14	+03.14
VW Boo	14 15 00.72	-0.05	+12 47 57.0	-4.2	(AC)						001.27	+65.15
HR 5361	14 15 52.952	-0.020	+35 44 21.87	+1.08	FK4	1370	31370	+35°1266	064053	19296	062.73	+69.76
lam Vir	14 16 23.969	-0.128	-13 08 30.89	+2.41	FK4	1371	31371		158489	19311	333.40	+44.25
HR 5413	14 27 00.328	-0.56	-49 17 47.29	-5.4	Per70		43070		224972	19539	318.95	+10.25
GY Hya	14 27 42.		-25 39 24.		GCVS						329.30	+31.87
CK Boo	14 32 36.509	+0.39	+09 19 58.50	-7.9	AGK3			+9°1727	120544		001.47	+59.62
AD Boo	14 32 58.282	-0.12	+24 51 25.62	+1.3	AGK3			+24°1479	083421		032.69	+66.57
AQ Cir	14 33 17.76		-64 32 24.3		AC						313.92	-04.17
V676 Cen	14 34 41.5		-38 37 43.		DM						324.64	+19.50
BW Boo	14 35 05.785	-0.23	+36 08 45.77	-1.1	AGK3			+36°1290	064240	19708	060.93	+65.91
HD 129333	14 37 56.367	-2.40	+64 30 23.09	-3.8	AGK3			+64°0695	016453	19757	105.52	+49.04
V677 Cen	14 39 23.		-40 14 36.		GCVS						324.78	+17.65
UZ Boo	14 41 45.28		+22 13 35.7								027.80	+63.97
GR Vir	14 42 41.679	-0.57	-06 31 30.12	+4.4	SAO				140120		346.24	+46.34
BD Cir	14 47 26.		-55 42 42.		GCVS						319.19	+03.13
39 Boo B	14 47 59.571	-0.85	+48 55 35.48	+9.2	AGK3			+48°1158	045231	19972	084.29	+58.58
xi Boo	14 49 04.800	+0.95	+19 18 24.60	-10.7	Per70		43144	+19°1391	101250	19991	023.09	+61.36
X1449-680	14 49 47.5		-68 04 04.								313.94	-08.06
HR 131861	14 52 37.580	-0.78	+45 30 00.71	+5.5	AGK3			+45°1148	045269		077.72	+59.56
AC Boo	14 54 43.31	-0.23	+46 33 46.6	+1.6	(Pl77)						079.26	+58.76
V822 Cen	14 55 20.651		-31 27 46.68								332.24	+23.88
TT Boo	14 55 51.295		+40 55 39.85		BFW87						068.75	+60.70
FT Lup	14 56 35.57	-0.33	-42 47 02.9	-4.4	Cp00 ft						326.55	+13.92

Name	RA(1950)	μ(RA)	Dec(1950)	μ(Dec)	Pos Ref	FK4	SRS	AGK3	SAO	GC	l	b
del Lib	14 58 17.808	-0.447	-08 19 18.19	-0.91	FK4	1394	31394		140270	20195	348.87	+42.51
TY Boo	14 58 46.73	-0.50	+35 19 42.3	+2.8	(Pl77)						057.18	+61.33

Name	Bayer	Flmstd	HR	HD	BD	CoD	CPD	Var	Other
Z Aps								Z Aps	HV 5060
TU Boo								TU Boo	26.1926
alp Dra	alp Dra	11 Dra	5291	123299	+65°0978				Thuban; 8H Dra; CSV 101425; NSV 06546;
V834 Cen								V834 Cen	X1405-450 (E,1ES,H,1H,M?)
CX Vir				123660	-14°3885			CX Vir	BV 508
V759 Cen				123732		-47°08945	-47°06410	V759 Cen	
12 Boo	d Boo	12 Boo	5304	123999	+25°2737				8H Boo
V504 Cen								V504 Cen	354.1935; HV 8574; P 3683
V716 Cen			5311	124195		-54°05601	-54°05933	V716 Cen	325G Cen; BV 516; CSV 7106
HR 5317			5317	124425	-0°2796				224G Vir
GK Vir								GK Vir	PG 1413+015; WD 1413+015
RR Cen				124689		-57°05498	-57°06572	RR Cen	
VW Boo								VW Boo	29.1935; P 3697
HR 5361	A Boo		5361	125351	+36°2468				16H Boo; IRC +40255
lam Vir	lam Vir	100 Vir	5359	125337	-12°4018				45H Vir; 237G Vir; CSV 101439; IRC -10304
HR 5413			5413	126983		-48°09098	-48°06496		13G Lup
GY Hya								GY Hya	S 6576
CK Boo				128141	+9°2916			CK Boo	
AD Boo					+25°2800			AD Boo	BV 135
AQ Cir							-64°02941	AQ Cir	34.1942; S 3294
V676 Cen						-38°09520		V676 Cen	CSV 2162; S 4995
BW Boo				128661	+36°2509			BW Boo	
HD 129333				129333	+64°1017				Gl 559.1
V677 Cen						-39°09135	-39°06408	V677 Cen	CSV 2182; S 4998
UZ Boo								UZ Boo	HV 10426
GR Vir				129903	-6°4068			GR Vir	BV 747; NSV 06785
BD Cir						-55°05858	-55°06204	BD Cir	104.1907; BV 510; CSV 2201; HV 2956; Zi 1
39 Boo B		39 Boo B	5538	131041 B	49°2326 B				
xi Boo	xi Boo	37 Boo	5544	131156 A	19°2870 A			xi Boo	Gl 566 A; IRC +20276; SVS 2491; X1449+
X1449-680									X1449-680 (1E)
HR 131861				131861	+45°2233				
AC Boo					+46°2004			AC Boo	BV 45
V822 Cen								V822 Cen	Cen X-4
TT Boo								TT Boo	HV 3681
FT Lup				132316		-42°09876	-42°06864	FT Lup	CSV 2228; S 5001

Name	Bayer	Flmstd	HR	HD	BD	CoD	CPD	Var	Other
del Lib	del Lib	19 Lib	5586	132742	-7°3938			del Lib	5H Lib; 38G Lib; INCA 2609
TY Boo								TY Boo	25.1926

Name	Sp1	Sp2	T-JD 2400000	P	e	omel	V0	K1	K2	v1 sin i	v2 sin i
Z Aps											
TU Boo	G3V	(F9)	33066.404	0.3242868							
alp Dra	A0IIIpSi		45117.3748	51.4167	0.400	23.20	-14.0	49.7		18	
V834 Cen	sdBe	M6.5V	45048.9505253	0.070497235	0	-	+14.		234. e		
CX Vir	F5		26092.4436	0.7460771	0	-	-13.8	66.5	262		
V759 Cen	F9V	(A7)	43089.2898	0.39399903							
12 Boo	F9IVw	[F9IV]	17680.052	9.6045	0.189	290	+9.1	67.4	66.5	26	
V504 Cen	sdBe										
V716 Cen	B5Ve	(A5)	39262.0045	1.49009305	0	-	-19.4	117.2			
HR 5317	F7Vw	[M4V]	44601.418	2.697023	0	-	+18.1	26.0		30	
GK Vir	DA	(dM0-M6)	42543.837148	0.344330809							
RR Cen	A9/F0V	(F0V)	37092.3206	0.60569243	0	-	-16.	56	267		
VW Boo	G5V (G4V)	(G6V)	31173.406	0.3423253	0	-	+38.1	104.5	231.2		
HR 5361	K0III		40286.002	212.085	0.574	224.9	-21.59	20.14		< 17.	
lam Vir	A1/6/7Vm	(A4V)	40253.6	206.64	0.079	93.3	-6.4	24.85	29.51	16	35
HR 5413	A1V	A1V	41440.40	11.82	0.327	41.82	+6.30	76.57	70.91	0	
GY Hya	G2p:			[0.108]							
CK Boo	F6V		46183.7652	0.35515102	0	-	-	44.5	280.1		
AD Boo	G0		41434.448	1.0344014							
AQ Cir	OB [B0]	(B0)	28656.350	1.14568							
V676 Cen	K2		46971.61521	0.2923901							
BW Boo	F0V	(K1IV)	40363.6503	3.332821	0.137	166.5	-16.5	74.2			
HD 129333	G0Ve			2.801							
V677 Cen			34421.651	0.325067							
UZ Boo	(sdBe)			0.125?							
GR Vir	G0(V)	(G1)	46560.85006	0.346975							
BD Cir	[A8]	(G2IV)	38205.310	0.86956							
39 Boo B	F6V	F5V	22379.490	12.822	0.394	97.05	-28.23	58.31	72.19		
xi Boo	G8V			10.137						2.7	
X1449-680	sdBe			0.16?							
HR 131861	F5III	[G1V]	44605.280	3.550758	0	-	-22.5	70.1			
AC Boo	F8(9)Vn	(F7V)	25776.607	0.35242943	0	-	-8.6	109.3	268.2		
V822 Cen	K7V	Pec(e)	46909.7344	0.629063	0	-	+137.	146			
TT Boo	sdBe			0.0771?							
FT Lup	F2V	(K5-7IV-V)	45061.8338*	0.47008337	0	-	-9.6	104	243		

Name	Sp1	Sp2	T-JD 2400000	P	e	omel	V0	K1	K2	v1 sin i	v2 sin i
del Lib	B9.5V	G(8IV)	42960.8432	2.3273543	0.069	115.5	-40.0	76.6	218.7	60	
TY Boo	G3V	G7V	46589.7906	0.31714964	0	-	-38.7	117	251		

Name	Spectroscopic orbit
Z Aps	
TU Boo	
alp Dra	Elst, E.W., Nelles, B. 1983, AAp Suppl., 53, 215
V834 Cen	Rosen, S.R., Mason, K.O., Cordova, F.A. 1987, MN, 224, 987
CX Vir	Hilditch, R.W., King, D.J. 1988, MN, 231, 397
V759 Cen	
12 Boo	Abt, H.A., Levy, S.G. 1976, ApJ Suppl., 30, 273
V504 Cen	
V716 Cen	(Hube, D.P. 1970, MemRAS, 72, 233)
HR 5317	Mayor, M., Mazeh, T. 1987, Astr. Ap., 171, 157
GK Vir	
RR Cen	King, D.J., Hilditch, R.W. 1984, MN, 209, 645
VW Boo	Hrivnak, B.J. 1990, Pacific Rim Colloquium on New Frontiers in Binary Star Research
HR 5361	Scarfe, C.D., Alers, S. 1975, PASP, 87, 285
lam Vir	Stickland, D.J. 1975, Physics of Ap-Stars, IAU Colloq. 32 (Vienna: Univ. Wien), p. 701
HR 5413	Kaufmann, J.P., Klippel, E. 1973, AAp, 27, 469
GY Hya	
CK Boo	Hrivnak, B.J. 1990, Pacific Rim Colloquium on New Frontiers in Binary Star Research
AD Boo	
AQ Cir	
V676 Cen	
BW Boo	Gorza, W.L., Heard, J.F. 1971, Pub. DDO, 3, 99
HD 129333	
V677 Cen	
UZ Boo	
GR Vir	
BD Cir	
39 Boo B	Harper, W.E. 1922, Pub. DAO, 2, 167
xi Boo	
X1449-680	
HR 131861	Mayor, M., Mazeh, T. 1987, Astr. Ap., 171, 157
AC Boo	Hrivnak, B.J. 1990, Pacific Rim Colloquium on New Frontiers in Binary Star Research
V822 Cen	McClintock, J.E., Remillard, R.A. 1990, ApJ, 350, 386
TT Boo	
FT Lup	Hilditch, R.W., et al. 1984, MN, 208, 135

Name	Spectroscopic orbit
del Lib	Tomkin, J. 1978, ApJ, 221, 608
TY Boo	Milone, E.F., Groisman, G., Fry, D.J.I., Bradstreet, D.H. 1991, ApJ, 370, 677

Name	V	B-V	U-B	R-I	E(B-V)	par	Cluster	ADS	Vis Binary	Companions
Z Aps	11.12	+1.62	+0.76							
TU Boo	11.8 p									
alp Dra	3.659	-0.047	-0.095	-0.07		0.018				
V834 Cen	15.5	+0.5	-0.9		0.0 u					
CX Vir	10.29	+0.491		+0.284C						
V759 Cen	7.4	+0.57					(NGC 5460)			
12 Boo	4.83	+0.54	+0.07	+0.29	0.00	0.042				
V504 Cen	13.54	+0.05	-0.82							
V716 Cen	5.96	+0.05	-0.38							
HR 5317	5.91	+0.47	+0.03		0.00	0.027				
GK Vir	17.01	-0.34	-1.14							
RR Cen	7.27	+0.36	+0.01		0.02					
VW Boo	10.5	+0.78	+0.35		0.16					
HR 5361	4.81	+1.06	+0.92	+0.53						
lam Vir	4.52	+0.13	+0.12	+0.06	0.00	0.017				5.3, 0.0002"
HR 5413	5.37	+0.05			0.02				HdO 232 A	11.9, 22.1"
GY Hya	14. p				0.14 m					
CK Boo	8.99									
AD Boo	9.45	+0.48								
AQ Cir	11.0 p									
V676 Cen	11.9 v									
BW Boo	7.13									
HD 129333	7.54	+0.61	+0.03			0.048				
V677 Cen	11.5 v									
UZ Boo	11.5 v				0.06 m					
GR Vir	7.81	+0.56								
BD Cir	9.4 p									
39 Boo B	5.69 D	+0.47			0.02	0.009		9406 B	Sig 1890 B	6.2, 2.9"
xi Boo	4.55	+0.76	+0.28	+0.43		0.156;	UMa str	9413 A	Sig 1888 A (orb)	6.90, K4V, 4.922"
X1449-680										
HR 131861	7.64 v				0.05 m					
AC Boo	10.0	+0.58	-0.04		0.04					Unresolved triple (not physical) EW2/(
V822 Cen	12.8	0.0	-0.8		0.10 u					
TT Boo	12.7 p				0.06 m					
FT Lup	9.78	+0.437								

Name	V	B-V	U-B	R-I	E(B-V)	par	Cluster	ADS	Vis Binary	Companions
del Lib	4.92	0.00	-0.10	+0.01	0.00	0.010			J 1586 A	12.3, 106.3"
TY Boo	11.39	+0.74	+0.23							

Name	Vbl type	Min I	Min II	D	d	i	r1	r2	II	qph
Z Aps	UGZ	(0.72)								
TU Boo	N:	12.5 p	12.4 p			80.	0.433	0.287	0.66 p	0.54
alp Dra	ACV:									
V834 Cen	E+XPM	18.2 B				132.				
CX Vir	EW	10.94	10.59			82.8	0.475	0.289	0.9208 bol	
V759 Cen	EW/KW	7.56	7.56			61.	0.465	0.265	0.75 V	0.39
12 Boo						74.15 s	0.16 ome		0.62 s	
V504 Cen	RCB									
V716 Cen	EB/KE	6.52	6.21			76.5	0.435	0.315	0.80 V	0.52
HR 5317						54.20 pi				
GK Vir	EA/WD	>22.		0.029738	0.024077					
RR Cen	EW/KE:	7.68	7.63		0.08	78.71	0.546	0.258	0.825 V	0.1795
VW Boo	EW/KW	11.08	10.93			75.64	0.470	0.322	0.7636 B	(0.428)
HR 5361										
Iam Vir	-					84.00 s	0.28 ome	0.62 ome	0.455 bol	
HR 5413						65.80 s	0.00 ome			
GY Hya	UG	16. p				57.63 pi				
CK Boo	EW/KW	9.236	9.223			58.44	0.435	0.342	0.521 bol	0.588
AD Boo	EB/SD:	10.09	9.85			87.2	0.174	0.137	0.692 V	
AQ Cir	E/KE	11.7 p	11.7 p			81.	0.40	0.35	0.58 p	0.76
V676 Cen	EW/KW	12.6	12.5			83.66	0.343	0.433	0.515 V	1.670
BW Boo	EA/DM	7.46	7.17	0.06; 0.06		73.	0.139	0.261	0.68 V	0.26
HD 129333										
V677 Cen	EW/KW	11.7 v	11.6 v			89.5	0.568	0.255	0.84 y	0.15
UZ Boo	UG	20.06				57.63 pi				
GR Vir	EW/KW	8.18	8.12			72.0	0.450	0.275	0.73 V	0.46
BD Cir	EA/KE:	9.9 p	9.5 p	0.18		75.	0.365	0.225	0.92 p	0.15
39 Boo B						71.57 s			0.56 s	
xi Boo	BY:									
X1449-680		18.15								
HR 131861						65.86 pi				
AC Boo	EW/KW	10.62	10.55			85.47	0.495	0.276	0.7331	0.280
V822 Cen	XND	18.47				38.				
TT Boo	UG	19.19				57.63 pi				
FT Lup	EB/D:	10.69	10.08		0.025?; > =	90.0	0.446	0.301	0.962	0.465

Name	Vbl type	Min I	Min II	D	d	i	r1	r2	II	qph
del Lib	EA/SD	5.90	5.01	0.23	0.000	81.4	0.300	0.2805	0.936 y	
TY Boo	EW/KW	12.06	11.92			77.50	0.454	0.322	0.583 V	

Name	Photometric solution
Z Aps	
TU Boo	Svechnikov, M.A., Kuznetsova, E.F. 1990, Katalog Priblizhennykh Fotometricheskikh i Absolyutnykh Elementov Zatmennykh Peremennykh Zvez
alp Dra	
V834 Cen	Cropper, M. 1989, MN, 236, 935
CX Vir	Hilditch, R.W., King, D.J. 1988, MN, 231, 397
V759 Cen	Svechnikov, M.A., Kuznetsova, E.F. 1990, Katalog Priblizhennykh Fotometricheskikh i Absolyutnykh Elementov Zatmennykh Peremennykh Zvez
12 Boo	
V504 Cen	
V716 Cen	Svechnikov, M.A., Kuznetsova, E.F. 1990, Katalog Priblizhennykh Fotometricheskikh i Absolyutnykh Elementov Zatmennykh Peremennykh Zvez
HR 5317	
GK Vir	(Green, R.F., Richstone, D.O., Schmidt, M. 1978, ApJ, 224, 892)
RR Cen	Twigg, L.W. 1979, MN, 189, 907
VW Boo	Rainger, P.P., Bell, S.A., Hilditch, R.W. 1990, MN, 246, 47
HR 5361	
lam Vir	
HR 5413	
GY Hya	
CK Boo	Krzesinski, J., Mikolajewski, M., Pajdosz, G., Zola, S. 1991, ApSpSci, 184, 37
AD Boo	Zhai, D.-S., Zhang, R.-X., Zhang, J.-T. 1982, AA Sin., 2, 224 (Chin. AAp, 6, 366)
AQ Cir	Svechnikov, M.A., Kuznetsova, E.F. 1990, Katalog Priblizhennykh Fotometricheskikh i Absolyutnykh Elementov Zatmennykh Peremennykh Zvez
V676 Cen	Gómez, M., Lapasset, E., Ahumada, J., Fariñas, R. 1990, Rev. Mexicana Astr. Astrofis., 21, 376
BW Boo	Svechnikov, M.A., Kuznetsova, E.F. 1990, Katalog Priblizhennykh Fotometricheskikh i Absolyutnykh Elementov Zatmennykh Peremennykh Zvez
HD 129333	
V677 Cen	Kilmartin, P.M., Bradstreet, D.H., Koch, R.H. 1987, ApJ, 319, 334
UZ Boo	
GR Vir	Svechnikov, M.A., Kuznetsova, E.F. 1990, Katalog Priblizhennykh Fotometricheskikh i Absolyutnykh Elementov Zatmennykh Peremennykh Zvez
BD Cir	Svechnikov, M.A., Kuznetsova, E.F. 1990, Katalog Priblizhennykh Fotometricheskikh i Absolyutnykh Elementov Zatmennykh Peremennykh Zvez
39 Boo B	
xi Boo	
X1449-680	
HR 131861	
AC Boo	Mancuso, S., Milano, L., Russo, G. 1978, Astr. Ap., 63, 193
V822 Cen	McClintock, J.E., Remillard, R.A. 1990, ApJ, 350, 386
TT Boo	
FT Lup	Lipari, S., Sisteró, R. 1986, MN, 220, 883

Name	Photometric solution
del Lib	Giuricin, G., et al. 1979, AAp Suppl., 37, 513
TY Boo	Milone, E.F., Groisman, G., Fry, D.J.I., Bradstreet, D.H. 1991, ApJ, 370, 677

Name	M1	M2	A	R1	R2	T1	T2	log L1	log L2	Distance	U	V	W
Z Aps													
TU Boo													
alp Dra													
V834 Cen		0.152 p											
CX Vir	2.24	0.57											
V759 Cen													
12 Boo	1.26 s	1.28 s											
V504 Cen										29.4 spi			
V716 Cen													
HR 5317	1.13 s	0.26 pi											
GK Vir										25.7 spi			
RR Cen	1.85	0.39											
VW Boo	1.02	0.46								131. phi			
HR 5361													
lam Vir	2.04 s	1.72 s											
HR 5413	2.11 s	2.27 s								50.1 s			
GY Hya	0.71 p	0.28 p								98.2 s			
CK Boo	1.76	0.28								550. p			
AD Boo													
AQ Cir													
V676 Cen													
BW Boo	14.16	3.68											
HD 129333													
V677 Cen													
UZ Boo	0.89 p	0.35 p								204. p			
GR Vir													
BD Cir													
39 Boo B	1.49 s	1.20 s								58.4 s			
xi Boo													
X1449-680													
HR 131861	1.51 s	1.03 pi								131. s			
AC Boo	1.41	0.57											
V822 Cen		1.41 s											
TT Boo	0.53 p	0.174 p								296. p			
FT Lup	1.43	0.61											

Name	M1	M2	A	R1	R2	T1	T2	log L1	log L2	Distance	U	V	W
del Lib	4.72	1.65											
TY Boo	1.20	0.56								125. phi			

Name	Notes
Z Aps	SR (P=18.975d), not ZC (Marino, B.F., Walker, W.S.G. 1991, IBVS 3664)
TU Boo	
alp Dra	
V834 Cen	(B-V)min=+0.7; E+XPM; K2=13.7; Twd=15000K
CX Vir	
V759 Cen	G0Vn+G0Vn, i=49.3, r1=0.497, r2=0.271, l1=0.771 V, qph=0.262 (lc: Bond, H.E. 1970, PASP, 82, 1065)
12 Boo	del m=0.51
V504 Cen	VY (previously considered RCB:)
V716 Cen	
HR 5317	del Sct (del B>0.05)
GK Vir	
RR Cen	
VW Boo	
HR 5361	
lam Vir	del m=0.14
HR 5413	
GY Hya	UG
CK Boo	F8[V]+(F8V), i=55.4, r1=0.456, r2=0.306, l1=0.690 V, qph=0.416 (lc: Aslan, Z., Derman, E. 1986, AAp Suppl., 66, 281)
AD Boo	
AQ Cir	(B2V)+(B2V), i=77.2, r1=0.379, r2=0.379, l1=0.500 p (lc: Hoffmeister, C. 1943, Kleine Veröff. Berlin-Babelsberg, No. 27)
V676 Cen	
BW Boo	F0V+(K1IV-V), i=74.7, r1=0.119, r2=0.266, l1=0.636 V (lc: Kurpinska, M. 1975, IBVS 1007)
HD 129333	
V677 Cen	
UZ Boo	
GR Vir	EW/KW
BD Cir	
39 Boo B	del m=0.28
xi Boo	BY: (4.52-4.67 V); Vis orb: P=151.56y, T=1909.33, a=4.922", e=0.510, i=139.97, ome=203.42, Ome=347.65 (Harrington, R.S. 1976, unp
X1449-680	EW(Hbeta)=116A
HR 131861	
AC Boo	
V822 Cen	XND
TT Boo	UG
FT Lup	*-0.114x10-9 E2

Name	Notes
del Lib	del m=2.2y; (B-V)I,II=0.00,+0.06
TY Boo	

Name	RA(1950)	μ(RA)	Dec(1950)	μ(Dec)	Pos Ref	FK4	SRS	AGK3	SAO	GC	l	b
i Boo	15 02 08.190	-4.09	+47 50 53.10	+3.2	SAO				045357	20281	080.36	+57.06
RZ UMi	15 06 05.309		+86 55 25.53		AC						121.08	+29.95
TZ Boo	15 06 16.77	-0.62	+40 09 34.9	+5.8	(PI77)						066.21	+59.00
HD 134646	15 06 52.873	-0.16	+63 18 26.92	-0.3	AGK3			+63°0776	016606	20381	100.79	+47.73
GK Aps	15 07 06.38		-79 20 04.4		LG90						309.35	-18.49
Libra DN	15 07 31.10		-01 44 01.7								357.49	+45.75
HP Lup	15 08 17.021	-0.59	-36 03 38.08	-5.4	SAO				206375		332.14	+18.56
HR 5651	15 09 27.473	-0.34	-44 18 46.87	-3.5	Per70		43210		225539	20435	327.83	+11.43
EK TrA	15 09 40.88		-64 54 31.0		L85						317.22	-06.26
BW Dra	15 10 50.422	-2.28	+62 02 48.65	+8.9	AGK3			+62°0861	016635		098.90	+48.20
BV Dra	15 10 50.660	-2.47	+62 02 32.88	+10.2	AGK3			+62°0862	016636	20465	098.90	+48.21
del Cir	15 12 53.078	-0.22	-60 46 24.48	-1.7	Per70		43220		253084	20507	319.69	-02.91
ES Lib	15 14 03.148	+0.06	-12 51 21.50	-0.2	SAO				159146	20531	348.88	+36.55
GG Lup	15 15 39.095	-0.14	-40 36 23.40	-2.9	Per70		43229		225647	20566	330.85	+13.95
PSR 1516+02	15 16 01.		+02 16								003.86	+46.80
U CrB	15 16 08.916	-0.11	+31 49 43.37	-2.9	AGK3			+31°1333	064619	20574	049.95	+57.87
HR 5702	15 17 28.967	-0.27	+32 41 42.37	+0.8	AGK3			+32°1325	064630	20606	051.58	+57.60
del Lup	15 18 04.851	-0.137	-40 28 04.92	-3.17	FK4	1402	31402		225691	20620	331.32	+13.82
eps Lup	15 19 16.541	-0.21	-44 30 40.82	-1.9	Per70		43243		225712	20659	329.23	+10.32
eps Lib	15 21 29.019	-0.48	-10 08 37.91	-16.0	Per70		43252		159234	20699	352.84	+37.34
HP TrA	15 21 49.326	-0.11	-63 15 05.79	+0.4	SAO				253159		319.24	-05.56
LS TrA	15 23 30.115	-0.99	-62 50 47.61	-5.9	SAO				253175		319.62	-05.32
HR 5736	15 24 05.522	-0.11	-36 35 36.61	-4.0	Per70		43259		206660	20756	334.60	+16.34
HD 137763	15 25 26.995	+0.46	-09 10 13.82	-35.7	SAO				140550	20783	354.58	+37.35
VZ Lib	15 29 04.		-15 31 00.		GCVS						350.03	+32.14
zet4 Lib	15 30 05.440	-0.09	-16 41 04.98	-2.1	Per70		43274		159335	20887	349.32	+31.11
gam Lup	15 31 47.980	-0.14	-41 00 00.69	-3.3	Per70		43281		225938	20926	333.19	+11.89
BR Lup	15 32 32.		-40 24 30.		GCVS						333.67	+12.29
alp CrB	15 32 34.145	+0.898	+26 52 54.75	-9.13	FK4	578	30578		083893	20947	041.87	+53.77
DM Dra	15 33 00.		+59 57		GCVS						094.08	+47.21
TW Dra	15 33 07.055	+0.06	+64 04 22.39	+1.8	AGK3			+64°0731	016767		099.07	+44.97
HR 5801	15 34 28.166	-0.07	-26 06 57.22	-2.6	SAO				183631	20993	343.25	+23.31
PSR 1534+12	15 34 47.686		+12 05 45.23								019.84	+48.34
V343 Nor	15 34 58.574	-0.60	-57 32 36.68	-10.5	SAO				242791		323.84	-01.80
tau Lib	15 35 34.729	-0.13	-29 36 53.36	-3.8	Per70		43301		183649	21019	341.06	+20.45

Name	RA(1950)	μ(RA)	Dec(1950)	μ(Dec)	Pos Ref	FK4	SRS	AGK3	SAO	GC	l	b
LX Ser	15 35 45.00		+19 01 48.6		McN86						029.78	+50.97
RW CrB	15 37 12.527	-0.11	+29 47 00.77	-0.6	AGK3			+29°1507	083931		046.95	+53.20
zet2 CrB	15 37 29.590	-0.14	+36 47 49.58	-0.9	SAO				064834	21064	058.70	+53.41
QV Nor	15 38 38.62		-52 13 36.9								327.42	+02.16
psi2 Lup	15 39 29.420	-0.19	-34 33 05.08	-3.6	Per70		43323		206889	21106	338.48	+16.08
AS Aps	15 41 04.05		-73 17 56.2		LG90						314.70	-14.73
SV Nor	15 41 13.		-59 39 54.		GCVS						323.22	-03.99
CT Ser	15 43 19.76		+14 31 50.3		D87						024.48	+47.56
25 Ser	15 43 30.273	-0.20	-01 38 56.03	-4.3	Per70		43338	-1°1946	140740	21187	005.53	+38.99
AB Nor	15 45 49.		-42 55 54.		GCVS						334.10	+08.77
HD 141458	15 46 29.487	-0.12	+12 52 32.56	-2.3	AGK3			+12°1656	101753	21256	022.79	+46.15
del CrB	15 47 29.713	-0.580	+26 13 13.16	-6.66	FK4Sup	3252	43351	+26°1518	084019	21276	041.88	+50.37
chi Lup	15 47 46.468	-0.072	-33 28 35.36	-3.22	FK4	586	30586		207040	21281	340.57	+15.82
lam Lib	15 50 25.602	-0.082	-20 01 08.70	-2.70	FK4	1415	31415		183895	21327	350.72	+25.38
MR Ser	15 50 33.08		+19 05 17.7								031.72	+47.71
NN Ser	15 50 35.8		+13 03 35.		PG						023.65	+45.34
HR 5906	15 50 54.404	-0.19	-24 23 08.40	-3.2	Per70		43360		183900	21339	347.51	+22.15
SS UMi	15 51 18.0		+71 55 25.		PG						106.41	+39.07
HD 142315	15 51 44.263	+0.26	-22 37 10.25	-1.0	SAO				183916	21356	348.98	+23.30
rho Sco	15 53 47.482	-0.118	-29 04 10.92	-3.27	FK4Sup	3258	43373		183957	21398	344.63	+18.27
AU Ser	15 54 39.	-0.28	+22 24 18.	-4.5	GCVS						036.85	+47.84
HR 5934	15 54 44.832	-0.12	-20 50 22.85	-2.5	Per70		43378		183972	21420	350.88	+24.09
pi Sco	15 55 49.301	-0.074	-25 58 18.14	-2.67	FK4	592	30592		183987	21447	347.22	+20.23
del Sco A	15 57 22.318	-0.073	-22 28 51.37	-2.51	FK4	594	30594		184014	21489	350.10	+22.49
LT TrA	15 59 23.458	+0.30	-62 33 19.62	+3.8	SAO				253405		323.08	-07.61
iot CrB	15 59 26.291	-0.278	+29 59 23.49	-0.81	FK4Sup	3264	43391		084152	21534	048.30	+48.46

Name	Bayer	Flmstd	HR	HD	BD	CoD	CPD	Var	Other
i Boo	i Boo B	44 Boo B	5618	133640 B	48°2259 B			i Boo	Gl 575B; X1502+478 (EXO,1ES,1H?)
RZ UMi								RZ UMi	SVS 2310
TZ Boo					+40°2857			TZ Boo	38.1926
HD 134646				134646	+63°1167				
GK Aps								GK Aps	CSV 7169; S 5496
Libra DN									Libra DN
HP Lup				134518		-35°10101	-35°06512	HP Lup	
HR 5651	e Lup		5651	134687		-44°09932	-44°07228		66G Lup
EK TrA								EK TrA	CSV 2282; S 5005
BW Dra								BW Dra	
BV Dra				135421	+62°1393			BV Dra	
del Cir	del Cir		5664	135240		-60°05539	-60°05701		42G Cir; CSV 7175; LSS 3331; NSV 06998
ES Lib				135681	-12°4227			ES Lib	BV 449
GG Lup			5687	135876		-40°09496	-40°06909	GG Lup	79G Lup; BV 448
PSR 1516+02B									PSR 1516+02B
U CrB				136175	+32°2569			U CrB	
HR 5702			5702	136403	+33°2574				
del Lup	del Lup		5695	136298		-40°09538	-40°06933	del Lup	83G Lup; CSV 101496; Zi 1116
eps Lup	eps Lup		5708	136504		-44°10066	-44°07342		91G Lup
eps Lib	eps Lib	31 Lib	5723	137052	-9°4138				10H Lib; 76G Lib
HP TrA				136828		-62°00935	-62°04477	HP TrA	BV 1511
LS TrA				137164		-62°00937	-62°04482	LS TrA	INCA 1165
HR 5736			5736	137432		-36°10161	-36°06807		100G Lup
HD 137763				137763	-8°3981				G 151-62; G 152-27; Gl 586 A; LTT 6180; N
VZ Lib								VZ Lib	P 1014
zet4 Lib	zet4 Lib	35 Lib	5764	138485	-16°4110				13H Lib; 87G Lib; NSV 07126
gam Lup	gam Lup		5776	138690		-40°09760	-40°07042		113G Lup
BR Lup								BR Lup	HV 4889
alp CrB	alp CrB	5 CrB	5793	139006	+27°2512			alp CrB	Alphekka; 3H CrB; IRC +30275
DM Dra								DM Dra	SVS 2426
TW Dra				139319	+64°1077			TW Dra	88.1910; CSV 7265; HV 3274
HR 5801			5801	139160		-25°11000	-25°05625		94G Lib
PSR 1534+12									PSR 1534+12
V343 Nor				139084		-57°06042	-57°07121	V343 Nor	INCA 1168
tau Lib	tau Lib	40 Lib	5812	139365		-29°11837	-29°04233		(o Sco); (4H Sco); 98G Lib

Name	Bayer	Flmstd	HR	HD	BD	CoD	CPD	Var	Other
LX Ser								LX Ser	Stepanian's Star; SVS 2354
RW CrB				139815	+30°2688			RW CrB	3.1915; INCA 2298
zet2 CrB	zet2 CrB	7 CrB	5834	139892	+37°2665				(52H Boo)
QV Nor								QV Nor	Nor X-2?; X1538-522 (3A,H,1H,1M,2S,4U)
psi2 Lup	psi2 Lup	4 Lup	5839	140008		-34°10494	-34°06387		125G Lup
AS Aps								AS Aps	S 5527
SV Nor								SV Nor	
CT Ser								CT Ser	N Ser 1948
25 Ser	A2 Ser	25 Ser	5863	140873	-1°3092				24G SerCp
AB Nor								AB Nor	HV 4908
HD 141458				141458	+13°3012				NSV 07270
del CrB	del CrB	10 CrB	5889	141714	+26°2737			del CrB	6H CrB; IRC +30279; X1547+262 (1ES)
chi Lup	chi Lup	5 Lup	5883	141556		-33°10754	-33°03933		132G Lup
lam Lib	lam Lib	45 Lib	5902	142096	-19°4249		-19°05920		(5H Sco); 114G Lib
MR Ser								MR Ser	PG 1550+191; X1550+190 (1ES,EXO)
NN Ser								NN Ser	PG 1550+131
HR 5906			5906	142165		-24°12354	-24°05583		4G Sco
SS UMi								SS UMi	PG 1551+719; X1551+719 (E)
HD 142315				142315	-22°4046	-22°11240	-22°06090		
rho Sco	rho Sco	5 Sco	5928	142669		-28°11714	-28°05237		6H Sco; 9G Sco
AU Ser								AU Ser	48.1935
HR 5934			5934	142883	-20°4364		-20°06262		10G Sco; NSV 07359
pi Sco	pi Sco	6 Sco	5944	143018		-25°11228	-25°05705		7H Sco; 12G Sco; CSV 102782; NSV 07371
del Sco A	del Sco A	7 Sco A	5953 A	143275 A	-22°4068A	-22°11292A	-22°06106A		8H Sco A; 13G Sco A; IRC -20303
LT TrA				143414		-62°01009	-62°05141	LT TrA	He 3-1130; MR 58; NSV 07395; WR 71
iot CrB	iot CrB	14 CrB	5971	143807	+30°2738				8H CrB; CSV 101544; NSV 07396; Zi 1184

Name	Sp1	Sp2	T-JD 2400000	P	e	ome1	V0	K1	K2	v1 sin i	v2 sin i
i Boo	G2V	G2V	42450.5734	0.26780761	0.0	-	-25.7	130.7	233.2	164	125
RZ UMi	[G2]	(G0)	43191.2687	0.33735283							
TZ Boo	G2V	(G2V)	43655.5278	0.29715665	0	-	-36.7	33.0	249.0		
HD 134646	F4III	[G1V]	44601.510	2.44391	0.0	-	-4.4	75.7			
GK Aps	[G6]	(G5)	36720.411	0.29615							
Libra DN											
HP Lup	A3		42542.598046	1.154553							
HR 5651	B3IV	[K1V]	35000.591	0.901407	< =0.03	-	+13.5	22		16	
EK TrA				0.06315:							
BW Dra	G3V	G0V	42572.538	0.2921671	0	-	-60.1	71.6	255.4		
BV Dra	F9V	F8V	44474.327	0.3500671	0	-	-61.2	97.2	236.3		
del Cir	O8.5V	O[9V]	39542.08	3.90249	0.087	295.8	+9.2	158.3		189	
ES Lib	A2/3V	(K5V)	40329.2639	0.8830356	0.072	359	+5.	89.7			
GG Lup	B7V	A0(V)	34532.325	2.164175	0.153 phi	-	-	118.8	194.9	150	
PSR 1516+02	(psr)			6.9							
U CrB	B6V	F8III-IV	16747.9718	3.45220133	0	-	-8.5	57	197	45	
HR 5702	A2(V)m	A(7V)m	41347.95	3.5773	0.093	39.3	-22.2	59.4	74.6	18	
del Lup	B1.5IV			19.31	0	-	+5.	10		221	
eps Lup	B3IV	B3:V	39370.68	4.559783	0.26	330	+7.9	56.1	64.8	133	
eps Lib	F5IV		14785.116	226.95	0.68	339.52	-9.66	14.00		9.3	
HP TrA	B5III	(B9.5)	38196.250	2.75815							
LS TrA	K2IV	K2IV	44686.903	49.431	0.516	215	-8.6	40.8	40.5	< 10.*	
HR 5736	B4Vp	[M3V]	38445.99	3.8275	0.25	22	-0.8	12.6		134	
HD 137763	K2V		47965.65	889.950	0.976	244.9	+7.05	40.0			
VZ Lib	F5	(F1.5)	44788.59010	0.35826334							
zet4 Lib	B2Vn	(B6V)		~6.5	0	-	+10.	15		256	
gam Lup	B2IV	[F1V]	39271.33	2.80805	0.10	97	+0.6	28.4		266	
BR Lup				0.07935:							
alp CrB	B9.5IV	G5V	23158.739	17.359907	0.370	311.0	+1.5	35.35	99.0	133	
DM Dra	sdBe			0.087?							
TW Dra	A8V	K0III	44136.295	2.8068470	0.0	-	0.	63.3	136	50	< =65.
HR 5801	B7IV	[G0V]	42182.498	5.27664	0.33	86	+3.7	37.0		152	
PSR 1534+12	(psr)		48263.3434966	0.4207372998	0.2736779	264.9721	-	200.9224	[203.6]		
V343 Nor	K1III	F		4.20						17.5	
tau Lib	B3V	B5[V]	39272.312	3.29066	0.28	114	-14.	75	167	149	100:

Name	Sp1	Sp2	T-JD 2400000	P	e	ome1	V0	K1	K2	v1 sin i	v2 sin i
LX Ser	sdBe	G8V	44293.0240	0.1584318	0	-	-57.	162		744 Sh; 650 e	
RW CrB	F2V	(K4IV)	40751.8462	0.7264114	0.12	160	-11.	61			
zet2 CrB	B6V	B6V	23866.601	12.58417	0.020	93	-14.2	129.4	126.4	20	50
QV Nor	B0.2Ia	XPSR	45518.15	3.72854	0	-	-172.	33	309	200	
psi2 Lup	B5V	B5:(V)	38252.97	12.26	0.192	82.8	+3.9	63.3	66.4	80	
AS Aps	[G2]	(G0)	36690.400	0.32310							
SV Nor	[F8]	(F7.5)	25598.599	0.376116							
CT Ser				0.045?							
25 Ser	B8III	(A0V)	19528.565	38.937	0.796	206.8	-12.57	53.56	89:	116	
AB Nor				[0.108]							
HD 141458	A0V	A1V	42450.38	28.948	0.641	258	-21.3	60.6	66.6		
del CrB	G3.5III-IVFe-1			~45.						< 17	
chi Lup	B9IVHgMn	A(3V)m	38436.571	15.2565	0.0026	166	-15.7	56.03	79.57	0	
lam Lib	B2.5V	(B7V)	35172.380	14.4829	0.27	217	+3.3	28.5		197	
MR Ser	sdBe	M5-6V	44763.80038	0.07879786	0	-	-17.		260		
NN Ser	sdBe	dM4.7-6.1	47344.524104	0.130080094							
HR 5906	B6IVn	[K4V]	35210.853	1.923526	0.36	309	-6.3	32.9		273	
SS UMi				0.0681:							
HD 142315	B8V	[M3V]	37774.194	1.264	0.61	330	-7.4	28.0		300	
rho Sco	B2IV-V	[K3V]	42178.606	4.003308	0.27	231	+3.3	16.4		156	
AU Ser	G5V		44722.4745	0.38650086	0	-	-62.9	139.3	195.5		
HR 5934	B3V	[B9V]	42180.228	10.0535	0.58	340	-27.5	64	170	98	
pi Sco	B1V	B2V	25027.887	1.5700968	0.15	25	-11.7	121	156	130	
del Sco A	B0.3IV	(B2.5V)		~20.	0	-	-1.	6.8		181	
LT TrA	WN6	[A3V]	44866.1	7.690	0	-	-121.	21			
iot CrB	B9VHg	[A6V]	41566.96	35.474	0.56	156	-20.32	2.33	3.50	< =4.	

Name	Spectroscopic orbit
i Boo	Hill, G., Fisher, W.A., Holmgren, D. 1989, AAp, 211, 81
RZ UMi	
TZ Boo	McLean, B.J., Hilditch, R.W. 1983, MN, 203, 1
HD 134646	Mayor, M., Mazeh, T. 1987, Astr. Ap., 171, 157
GK Aps	
Libra DN	
HP Lup	
HR 5651	Buscombe, W., Kennedy, P.M. 1962, PASP, 74, 323
EK TrA	
BW Dra	Kaluzny, J., Rucinski, S.M. 1986, AJ, 92, 666
BV Dra	Kaluzny, J., Rucinski, S.M. 1986, AJ, 92, 666
del Cir	Thackeray, A.D., Emerson, B. 1969, MN, 142, 429
ES Lib	Bartolini, C., Battistini, P., Mammano, A., Margoni, R., Stagni, R. 1973, Mem. SAI, 44, 231
GG Lup	Andersen, J., Clausen, J.V. 1991, in prep.
PSR 1516+02B	
U CrB	Batten, A.H., Tomkin, J. 1981, Pub. DAO, 15, 419
HR 5702	Batten, A.H., McCall, M.L. 1976, PASP, 88, 13
del Lup	Lloyd, C., Pike, C.D. 1988, AAp Suppl., 76, 121
eps Lup	Thackeray, A.D. 1970, MN, 149, 75
eps Lib	Jones, R.B. 1931, Lick Obs. Bull., 15, 120
HP TrA	
LS TrA	Collier-Cameron, A., Lloyd Evans, T., Balona, L.A. 1988, MN, in press
HR 5736	Levato, H., Malaroda, S., Morrell, N., Solivella, G. 1986, ApJ Suppl., 64, 487
HD 137763	Tokovinin, A.A. 1991, AAp Suppl, 91, 497
VZ Lib	
zet4 Lib	van Hoof, A., Bertiau, F.C., Deurinck, R. 1963, ApJ, 137, 824
gam Lup	Levato, H., Malaroda, S., Morrell, N., Solivella, G. 1986, ApJ Suppl., 64, 487
BR Lup	
alp CrB	Tomkin, J., Popper, D.M. 1986, AJ, 91, 1428
DM Dra	
TW Dra	Popper, D.M. 1989, ApJ Suppl., 71, 595
HR 5801	Levato, H., Malaroda, S., Morrell, N., Solivella, G. 1986, ApJ Suppl., 64, 487
PSR 1534+12	Taylor, J.H., Wolszczan, A., Damour, T., Weisberg, J.M. 1992, Nature, 355, 132
V343 Nor	
tau Lib	Levato, H., Malaroda, S., Morrell, N., Solivella, G. 1986, ApJ Suppl., 64, 487

Name	Spectroscopic orbit
LX Ser	Young, P., Schneider, D.P., Shectman, S.A. 1981, ApJ, 244, 259
RW CrB	Sanford, R.F. 1934, ApJ, 79, 89
zet2 CrB	Abhyankar, K.D., Sarma, M.B.K. 1966, MN, 133, 437
QV Nor	Crampton, D., Hutchings, J.B., Cowley, A.P. 1978, ApJ, 225, L63; Makishima, K., Koyama, K., Hayakawa, S., Nagase, F. 1987, ApJ, 314, 61
psi2 Lup	Thackeray, A.D., Hutchings, J.B. 1964, MN, 129, 191
AS Aps	
SV Nor	
CT Ser	
25 Ser	Petrie, R.M., Phibbs, E. 1949, Pub. DAO, 8, 225
AB Nor	
HD 141458	Bolton, C.T., Bates, M., Hurkens, R. 1983, JRASC, 77, 18
del CrB	
chi Lup	Dworetsky, M.M. 1972, PASP, 84, 254
lam Lib	Levato, H., Malaroda, S., Morrell, N., Solivella, G. 1986, ApJ Suppl., 64, 487
MR Ser	Mukai, K., Charles, P.A. 1987, MN, 226, 209
NN Ser	
HR 5906	Levato, H., Malaroda, S., Morrell, N., Solivella, G. 1986, ApJ Suppl., 64, 487
SS UMi	
HD 142315	Levato, H., Malaroda, S., Morrell, N., Solivella, G. 1986, ApJ Suppl., 64, 487
rho Sco	Levato, H., Malaroda, S., Morrell, N., Solivella, G. 1986, ApJ Suppl., 64, 487
AU Ser	Hrivnak, B.J. 1990, Pacific Rim Colloquium on New Frontiers in Binary Star Research
HR 5934	Levato, H., Malaroda, S., Morrell, N., Solivella, G. 1986, ApJ Suppl., 64, 487; (Andersen, J., Nordström, B. 1983, AAp Suppl., 52, 471)
pi Sco	Levato, H., Malaroda, S., Morrell, N., Solivella, G. 1986, ApJ Suppl., 64, 487
del Sco A	van Hoof, A., Bertiau, F.C., Deurinck, R. 1963, ApJ, 137, 824
LT TrA	Isserstedt, J., Moffat, A.F.J., Niemela, V.S. 1983, AAp, 126, 183
iot CrB	Dworetsky, M.M. 1980, MN, 191, 521

Name	V	B-V	U-B	R-I	E(B-V)	par	Cluster	ADS	Vis Binary	Companions
i Boo	5.85	+0.65 D	+0.11 D		0.00	0.083; D0.0741		9494 B	Sig 1909 B (orb)	5.25V, G1V, 3.8"
RZ UMi	12.8 B									
TZ Boo	10.41	+0.61	-0.03		0.02					
HD 134646	6.84				0.04 m			9520 A	Sig 1918 A	10.8, 17.9"
GK Aps	13.4 p									
Libra DN	11.2 B									
HP Lup	9.27	+0.315	+0.175						h 4745 A	10.3, 24.7"; 11.3, 32.3"
HR 5651	4.82	-0.17	-0.68	-0.16	0.04		(Sco-Cen)			
EK TrA	12.08	-0.02	-0.70		0.05 u					
BW Dra	8.62	+0.61	+0.15		0.00			9537 B	Sig 1927 B	BV Dra, 16"
BV Dra	7.88	+0.54	-0.07		0.00			9537 A	Sig 1927 A	BW Dra, 16"
del Cir	5.09	-0.06	-0.92		0.27				HdO 245 A	13.3, 50"
ES Lib	7.10								CHARA 44	7.85, 0.1:"
GG Lup	5.59	-0.10	-0.46			A0.007	Lup-Cen conc			
PSR 1516+02B					0.03		NGC 5904			
U CrB	7.66					0.0041				
HR 5702	6.32	+0.24	+0.09	+0.08	0.10					
del Lup	3.22	-0.22	-0.89	-0.22			Sco-Cen			
eps Lup	3.37 D	-0.18	-0.75	-0.16	0.00	D0.009	(Sco-Cen)		Del 182 A	5.1, 0.4"; 9v, 27"
eps Lib	4.94	+0.44	+0.02			0.028; D0.033			AB (orb)	
HP TrA	8.2 p									
LS TrA	7.0 v	+1.04	+0.78	+0.53C		0.011				
HR 5736	5.45	-0.15	-0.59	-0.17	0.02		Cr 302		HdO 248 A	12.5v, 20"; 11.5v, 36"
HD 137763	6.98	+0.81	+0.49	+0.29E		0.060			S,h 202 A; BDS 722	BD -8°3983,7.59,+0.93,+0.65,+0.3
VZ Lib	10.13	+0.64	+0.10							
zet4 Lib	5.50	-0.14	-0.75	-0.17	0.08					
gam Lup	2.78	-0.20	-0.82	-0.24	0.02	D0.008	Sco-Cen		h 4786 A (orb)	3.6v, B2IV-V, 0.59"
BR Lup	13.7 B				0.13 m					
alp CrB	2.23	-0.02	-0.02	-0.04	0.00	0.045;	UMa			
DM Dra	15.5									
TW Dra	7.307	+0.30:			0.00			9706 A	OSig 299 A (orb)	9.5, 3.4"
HR 5801	6.19	+0.01	-0.42		0.08		Cr 302			
PSR 1534+12										
V343 Nor	8.14	+0.83	+0.38	+0.46		0.037				
tau Lib	3.66	-0.17	-0.70	-0.19	0.00		Cr 302			

Name	V	B-V	U-B	R-I	E(B-V)	par	Cluster	ADS	Vis Binary	Companions
LX Ser	14.45	+0.20	-0.56		0.0 u					
RW CrB	10.22				0.07 m					
zet2 CrB	5.07 H	-0.12 D	-0.47 D		0.02	0.015		9737 A	Sig 1965 A	6.00H, 6.4"
QV Nor	14.35	+1.91	+0.58		2.24					
psi2 Lup	4.75	-0.14	-0.52	-0.16	0.02	A0.006	Cr 302			
AS Aps	13.4 p									
SV Nor	12.0 p									
CT Ser	16.6 p									
25 Ser	5.40	-0.03	-0.40		0.03					
AB Nor	13.9 p				0.19 m					
HD 141458	6.81	+0.03	0.00		0.00					
del CrB	4.63	+0.80	+0.37	+0.42		0.014				
chi Lup	3.95	-0.04	-0.13	-0.07	0.00		(Cr 302)			
lam Lib	5.03	-0.01	-0.56	-0.05	0.20		Cr 302			
MR Ser	15.38	+0.17	-1.17		0.0 u					
NN Ser	16.8	-0.2	-1.2		0.05 u					
HR 5906	5.39	-0.02	-0.40	-0.02	0.13		Cr 302			
SS UMi	12.6 v									
HD 142315	6.86	+0.04	-0.21		0.13		Cr 302			
rho Sco	3.88	-0.20	-0.82	-0.20	0.04		Cr 302	9846 A	lam 251 A	12.7v, 38.3"
AU Ser	10.9 v									
HR 5934	5.85	+0.02	-0.43				Cr 302			
pi Sco	2.89	-0.19	-0.91	-0.20	0.04	0.010	Cr 302	9862 A	bet 622 A	6.4v, 0.0003"; 12.2v, 50"
del Sco A	2.32	-0.12	-0.91	-0.13	0.16		Sco OB2?		A	3.3v, 0.1"; 4.9v, 0.186"
LT TrA	10.24	-0.02	-0.16		0.30 u					
iot CrB	4.99	-0.07	-0.19	-0.08	0.00	0.010				

Name	Vbl type	Min I	Min II	D	d	i	rI	r2	II	qph
i Boo	EW/KW	6.40	6.29			72.8	0.432	0.328	0.698 V	
RZ UMi	EW/KW	13.5 B	13.5 B			80.	0.448	0.280	0.71 B	0.460
TZ Boo	EW/KW	11.00	10.82 (var)		0.09	76.5	0.57	0.23	0.85	0.17
HD 134646						61.91 pi				
GK Aps	EW:/KW:	13.9 p	13.9 p			74.	0.425	0.295	0.66 p	0.60
Libra DN		15. B								
HP Lup	EA	9.51	9.32	0.20		90.	0.315	0.116	0.993 V	
HR 5651						31.25 pi				
EK TrA	UGSU	>17. p				57.63 pi				
BW Dra	EW/KW	9.09	9.02			74.42	0.499	0.281	0.7348	
BV Dra	EW/KW	8.46	8.41			76.28	0.472	0.318	0.6734	
del Cir	ELL:					41.93 s				
ES Lib	EB/KE	7.57				76.34	0.429	0.199	0.986	0.560
GG Lup	EB/DM	6.1 p	5.9 p			86.9	0.182	0.132	0.76 y	
PSR 1516+02B										
U CrB	EA/SD	8.79	7.72	0.14		75.9	0.1527	0.2764	0.9352 bol	
HR 5702						38.11 s	0.13 ome			
del Lup	BCEP									
eps Lup						22.10 s	0.81 ome			
eps Lib						71.1				
HP TrA	E	8.6 p	deep			83.	0.364	0.136	0.96 p	0.450
LS TrA	RS						<0.045 ome			
HR 5736						50.84 pi				
HD 137763	-									
VZ Lib	EW/KW	10.63	10.55		0.000; 0.005	73.5	0.448	0.275	0.68 V	0.460
zet4 Lib	-					10.73 s			0.86 s	
gam Lup						44.90 pi				
BR Lup	UG	17.5 p				57.63 pi				
alp CrB	EA/DM	2.31 B	2.235 B	0.034; 0.018		88.2	0.071	0.0209	0.9765	
DM Dra	UG									
TW Dra	EA/SD	(2.4 p)	(0.2 p)	0.15	0.020	86.2	0.210	0.297	0.851 y	
HR 5801						50.71 pi				
PSR 1534+12						80.4				
V343 Nor	BY:	(0.12)								
tau Lib						45.83 s	0.433 ome	0.290: ome		

Name	Vbl type	Min I	Min II	D	d	i	rI	r2	II	qph
LX Ser	EA+UG:	16.6		[0.086]						
RW CrB	EA/SD:	10.78	10.29	0.20	0.028	78.89	0.373	0.243	0.972 V	0.2795
zet2 CrB						87.19 se	0.078 ome	0.195 ome	0.47 s	
QV Nor	XP			0.156 X		68.16	0.585 ome			
psi2 Lup						40.48 s	0.50 ome			
AS Aps	EW/KW	13.8 p	13.8 p			70.	0.43	0.29	0.67 p	0.56
SV Nor	EW/KW	12.6 p	12.6 p			77.5	0.485	0.250	0.78 p	0.32
CT Ser	NA									
25 Ser						52.03 s	0.112 ome		0.78 s	
AB Nor	UG:	>16.0 p				57.63 pi				
HD 141458	-					59.08 s				
del CrB	RS:									
chi Lup						69.54 s	0.00 ome		0.792 s	
lam Lib						29.39 del			0.86 s	
MR Ser	AM					50.				
NN Ser	NL	21.6		0.0583	0.0440					
HR 5906						49.07 pi				
SS UMi	UG	17.6 v				57.63 pi				
HD 142315						44.10 pi				
rho Sco						51.60 pi				
AU Ser	EW/KW:	11.80	11.61			80.2	0.405	0.366	0.6373	0.80:
HR 5934	BCEP:						0.137 ome			
pi Sco	-					31.94 s	0.418 ome		0.75 s	
del Sco A						5.28 s			0.86 s	
LT TrA	WR					42.68 pi				
iot CrB	ACV:					2.63 s	<=0.2 ome			

Name	Photometric solution
i Boo	Hill, G., Fisher, W.A., Holmgren, D. 1989, AAp, 211, 81
RZ UMi	Svechnikov, M.A., Kuznetsova, E.F. 1990, Katalog Priblizhennykh Fotometricheskikh i Absolyutnykh Elementov Zatmennykh Peremennykh Zvez
TZ Boo	Wolfschmidt, G., Rahe, J., Schöffel, E. 1979, Mitt. AG, 45, 49
HD 134646	
GK Aps	Svechnikov, M.A., Kuznetsova, E.F. 1990, Katalog Priblizhennykh Fotometricheskikh i Absolyutnykh Elementov Zatmennykh Peremennykh Zvez
Libra DN	
HP Lup	Giuricin, G., Mardirossian, F., Mezzetti, M. 1982, AAp, 109, 366
HR 5651	
EK TrA	
BW Dra	Kaluzny, J., Rucinski, S.M. 1986, AJ, 92, 666
BV Dra	Kaluzny, J., Rucinski, S.M. 1986, AJ, 92, 666
del Cir	
ES Lib	Milano, L., Barone, F., Mancuso, S., Russo, G. 1989, ApSpAci, 153, 273
GG Lup	Clausen, J.V. 1988, paper presented at session 42/2, XX Gen. Assembly, IAU; Andersen, J., Clausen, J.V. 1991, in prep.
PSR 1516+02B	
U CrB	van Gent, R.H. 1989, SpSciRev, 50, 264
HR 5702	
del Lup	
eps Lup	
eps Lib	Castelaz, M.W. 1989, AJ, 97, 1184
HP TrA	Svechnikov, M.A., Kuznetsova, E.F. 1990, Katalog Priblizhennykh Fotometricheskikh i Absolyutnykh Elementov Zatmennykh Peremennykh Zvez
LS TrA	
HR 5736	
HD 137763	
VZ Lib	Svechnikov, M.A., Kuznetsova, E.F. 1990, Katalog Priblizhennykh Fotometricheskikh i Absolyutnykh Elementov Zatmennykh Peremennykh Zvez
zet4 Lib	
gam Lup	
BR Lup	
alp CrB	Tomkin, J., Popper, D.M. 1986, AJ, 91, 1428
DM Dra	
TW Dra	Giuricin, G., Mardirossian, F., Predolin, F. 1980, ApSpSci, 73, 389
HR 5801	
PSR 1534+12	Taylor, J.H., Wolszczan, A., Damour, T., Weisberg, J.M. 1992, Nature, 355, 132
V343 Nor	
tau Lib	

Name	Photometric solution
LX Ser	(Horne, K. 1980, ApJ, 242, L167)
RW CrB	Wilson, R.E., Rafert, J.B. 1980, AAp Suppl., 42, 195
zet2 CrB	
QV Nor	(Davison, P.J.M., Watson, M.G., Pye, J.P. 1977, MN, 181, 73P)
psi2 Lup	
AS Aps	Svechnikov, M.A., Kuznetsova, E.F. 1990, Katalog Priblizhennykh Fotometricheskikh i Absolyutnykh Elementov Zatmennykh Peremennykh Zvez
SV Nor	Svechnikov, M.A., Kuznetsova, E.F. 1990, Katalog Priblizhennykh Fotometricheskikh i Absolyutnykh Elementov Zatmennykh Peremennykh Zvez
CT Ser	
25 Ser	
AB Nor	
HD 141458	
del CrB	
chi Lup	
lam Lib	
MR Ser	Wickramasinghe, D.T., Cropper, M., Mason, K.O., Garlick, M. 1991, MN, 250, 692
NN Ser	(Wood, J.H., Marsh, T.R. 1991, ApJ, 381, 551)
HR 5906	
SS UMi	
HD 142315	
rho Sco	
AU Ser	Kaluzny, J. 1986, AA, 36, 113
HR 5934	
pi Sco	
del Sco A	
LT TrA	
iot CrB	

C-3.

Name	M1	M2	A	R1	R2	T1	T2	log L1	log L2	Distance	U	V	W
i Boo	0.98	0.55											
RZ UMi										13.5 pi			
TZ Boo	0.66	0.088											
HD 134646	1.54 s	1.01 pi								138. phi			
GK Aps										94.2 s			
Libra DN													
HP Lup													
HR 5651	7.59 s	0.79 pi											
EK TrA	0.53 p	0.132 p								252. s			
BW Dra	0.93	0.26								227. p			
										70.3 phi			
BV Dra	1.04	0.43											
del Cir	26.92 s	23.99 s								70.3 phi			
ES Lib	0.99	0.55								840. s			
GG Lup	4.17	2.54											
PSR 1516+02B													
										7650. g			
U CrB	4.98	1.44											
HR 5702	2.09 s	1.66											
del Lup										103. s			
eps Lup	7.59 s	6.57											
eps Lib										190. s			
HP TrA													
LS TrA													
HR 5736	5.75 s	0.39 pi											
HD 137763										212. s			
VZ Lib													
zet4 Lib	9.77 s	4.07 del											
gam Lup	10.96 s	1.42 pi								385. s			
BR Lup	0.53 p	0.180 p								142. spi			
alp CrB	2.58	0.92											
DM Dra										26.1 phi			
TW Dra	1.58	0.74											
HR 5801	3.72 s	1.05 pi								156. phi			
PSR 1534+12	1.348	1.331								206. s			
V343 Nor													
tau Lib	8.01 s	3.60 s								141. s			

Name	M1	M2	A	R1	R2	T1	T2	log L1	log L2	Distance	U	V	W
LX Ser													
RW CrB	1.33	0.37								262. phi			
zet2 CrB	10.80 s	11.06 s								178. s			
QV Nor	17.46	1.86								3680. phi			
psi2 Lup	4.90 s	4.67 s								176. s			
AS Aps													
SV Nor													
CT Ser													
25 Ser	3.31 s	1.99								174. s			
AB Nor	0.71 p	0.28 p								477. p			
HD 141458	2.32 s	2.11 s											
del CrB										210. s			
chi Lup	2.82 s	1.98											
lam Lib	8.22 s	3.26 del								66.5 s			
MR Ser	0.66	0.179 p								215. s			
NN Ser													
HR 5906	4.37 s	0.70 pi											
SS UMi										151. s			
HD 142315	3.02 s	0.37 pi											
rho Sco	10.35 s	0.75 pi								187. s			
										206. s			
AU Ser	0.92	0.65											
HR 5934													
pi Sco	12.74 s	9.88 s											
del Sco A	19.59 s	8.77 del								181. s			
LT TrA	15.84 s	1.96 pi								251. s			
iot CrB	2.57 s	1.71											
										87.2 s			

Name	Notes
i Boo	del m=0.06; Vis. orb: P=225.15y, T=2020.8, a=3.765", e=0.4300, i=83.9°, ome=218.6°, Ome=57.9°, B=0.409 (Hill, G., Fischer, W.A.,
RZ UMi	
TZ Boo	
HD 134646	
GK Aps	Type RRc possible
Libra DN	DN? doubtful (Wenzel, W. 1991, IBVS 3591); 10.7 R at max; embedded in nebulosity
HP Lup	
HR 5651	
EK TrA	UG; Twd<20000K
BW Dra	del m=0.45
BV Dra	del m=0.63
del Cir	Var (6.1-6.18V)
ES Lib	del m>3.2
GG Lup	U~100y
PSR 1516+02	DM=29.5
U CrB	del m=1.83
HR 5702	
del Lup	bet Cep (3.21-3.24 V), 0.1982d
eps Lup	
eps Lib	Vis. orb: (Castelaz, M.W. 1989, AJ, 97, 1184)
HP TrA	
LS TrA	*Pphtm=46.19d
HR 5736	
HD 137763	
VZ Lib	
zet4 Lib	del m=2.0
gam Lup	Vis. orb: P=190y, T=1885.0, a=0.665", e=0.51, i=95.0°, ome=311.5°, Ome=94.6° (Heintz, W.D. 1990, AAp Sup, 82, 65)
BR Lup	UGSU
alp CrB	del mv=4.86
DM Dra	
TW Dra	del m=1.20y
HR 5801	
PSR 1534+12	DM=11.61; U=205.01y; M1+M2=2.6790; i, M1, M2 deduced from d/dt(ome1) and s
V343 Nor	BY
tau Lib	

Name	Notes
LX Ser	vd sin i=724
RW CrB	
zet2 CrB	del m=-0.12
QV Nor	X-ray ecl.
psi2 Lup	
AS Aps	
SV Nor	
CT Ser	
25 Ser	del m=1.39
AB Nor	UG:
HD 141458	
del CrB	
chi Lup	del m=1.45
lam Lib	del m=2.0, 0.0002"
MR Ser	AM; K2(sharp em pk)=168+/-8 km/s (Schwope, A.D., Thomas, H.-C. Beuermann, K., Naundorf, C.E. 1991, AAp, 244, 373); Twd<21000K
NN Ser	del m~0.6 outside ecl.; T1~18000K
HR 5906	
SS UMi	UGSU
HD 142315	
rho Sco	
AU Ser	
HR 5934	SB2, secondary much ftr.
pi Sco	del m=1.2
del Sco A	del m=2.0; Ang. diam. 1=0.00046"+/-0.00004" (Hanbury Brown, R., Davis, J., Allen, L.R. 1974, MN, 167, 121)
LT TrA	
iot CrB	

Name	RA(1950)	μ(RA)	Dec(1950)	μ(Dec)	Pos Ref	FK4	SRS	AGK3	SAO	GC	l	b
the Dra	16 00 56.829	-4.168	+58 41 53.69	+33.62	FK4	598		+58°1008	029765	21572	090.18	+44.58
Z Nor	16 01 22.456	-0.04	-46 09 27.41	+0.6	SAO				226485		334.14	+04.52
HD 144359	16 02 19.537	-0.24	+34 18 51.32	+2.0	AGK3			+34°1452	065057	21605	054.88	+48.33
bet1 Sco	16 02 31.507	-0.041	-19 40 12.45	-2.13	FK4	597			159682	21609	353.19	+23.60
HR 5992	16 03 12.539	+0.13	+08 13 50.63	-1.7	AGK3			+8°1918	121361	21622	019.77	+40.35
HD 144515a	16 03 32.437	-3.46	+10 49 11.39	-5.4	AGK3			+10°1883	101919	21630	022.84	+41.50
X1603+260	16 03 40.50		+25 59 48.1								042.75	+46.80
TW CrB	16 04 47.386	-0.20	+27 24 33.36	-2.5	AGK3			+27°1492			044.83	+46.84
nu Sco	16 09 05.107	-0.08	-19 19 56.51	-3.0	Per70		43431		159764	21773	354.61	+22.70
HD 145519	16 09 11.761	-0.24	-18 56 02.93	-2.3	SAO				159767		354.95	+22.95
13 Sco	16 09 13.090	-0.11	-27 47 53.94	-3.3	Per70		43434		184221	21778	348.12	+16.84
V893 Sco	16 11 39.		-28 32		GCVS						347.96	+15.94
TZ CrB	16 12 48.252	-2.21	+33 59 02.62	-8.0	SAO				065165	21863	054.67	+46.14
IT Nor	16 13 35.68	-0.02	-44 51 55.6	-0.8	Cp00ft						336.60	+04.02
RR TrA	16 13 52.		-62 36 48.		GCVS						324.27	-08.79
HP Nor	16 16 55.51		-54 46 13.9		L85						330.09	-03.45
V818 Sco	16 17 04.489	-0.046	-15 31 14.78	-2.01	( )						359.09	+23.78
sig Sco	16 18 08.667	-0.072	-25 28 28.14	-2.27	FK4	607	30607		184336	21982	351.31	+17.00
V1022 Oph	16 18 43.		-03 56 14.								009.68	+30.56
U Sco	16 19 37.49		-17 45 42.9		D87						357.67	+21.87
gam Her	16 19 42.738	-0.334	+19 16 09.32	+4.17	FK4	609	30609		102107	22012	035.26	+41.30
GX Nor	16 19 55.		-53 23 24.		GCVS						331.37	-02.80
PSR 1620-26	16 20 34.141		-26 24 58.06								350.98	+15.96
W UMi	16 21 10.745	-1.77	+86 19 22.67	+0.3	AGK3			+86°0217	002692		119.62	+29.56
IK Nor	16 21 27.10		-55 13 12.1		L85						330.23	-04.25
V760 Sco	16 21 27.670	+0.16	-34 46 45.74	-2.4	SAO				207641	22050	344.86	+10.09
21 Her	16 21 44.526	0.000	+07 03 44.55	+1.39	FK4	1429	31429	+7°2044	121568	22058	021.30	+35.77
V699 Oph	16 22 36.		-04 33 48.		GCVS						009.73	+29.41
zet TrA	16 23 03.880	+4.045	-69 58 28.74	+10.06	FK4	610	30610		253554	22089	319.53	-14.57
eps Nor	16 23 30.524	-0.08	-47 26 33.93	-3.4	Per70		43490		226773	22106	336.00	+00.98
chi Oph	16 24 07.298	-0.045	-18 20 40.08	-2.71	FK4Sup	3298	43493		159918	22117	357.93	+20.68
ups Oph	16 25 05.689	-0.593	-08 15 41.15	+0.10	FK4Sup	3299	43496		141187	22134	006.74	+26.74
V2060 Oph	16 26 13.		-05 43 56.								009.23	+28.00
bet Her	16 28 04.105	-0.709	+21 35 50.16	-1.71	FK4	618	30618	+21°1607	084411	22193	039.01	+40.21
V592 Her	16 28 46.8		+21 23 09.								038.82	+39.99

Name	RA(1950)	μ(RA)	Dec(1950)	μ(Dec)	Pos Ref	FK4	SRS	AGK3	SAO	GC	l	b
32 Her	16 31 32.105	-0.22	+30 36 09.91	-1.4	AGK3			+30°1517	065380	22276	050.82	+41.73
V918 Sco	16 32 51.149	-0.08	-42 45 26.77	-1.4	Per70		43521		226953	22304	340.54	+03.01
HR 6169	16 33 11.685	-0.064	+17 09 32.66	+0.24	FK4Sup	3313	43523	+17°1620	102259	22314	034.18	+37.56
V2133 Oph	16 33 43.677	+3.026	-02 13 10.02	-31.46	FK4	1433	31433	-2°1002	141269	22321	013.73	+28.42
V600 Her	16 34 40.598	-0.15	+14 34 30.70	0.0	AGK3			+14°1666	102273	22342	031.37	+36.23
V349 Ara	16 34 56.592	+0.12	-60 51 46.87	-1.5	SAO				253639		327.30	-09.40
V954 Sco	16 35 19.607	+0.17	-44 03 32.38	-2.8	SAO				226997	22359	339.88	+01.80
R Ara	16 35 34.799	-0.10	-56 53 45.99	-0.5	SAO				244037	22364	330.35	-06.83
V544 Her	16 35 39.		+08 43		GCVS						025.04	+33.51
HD 149834	16 35 45.457	+0.07	-48 45 09.63	-1.3	SAO				227008		336.45	-01.41
CoD -48°1106	16 37 07.60	-0.08	-48 43 03.2	-1.2	Cp00ft						336.62	-01.55
HR 6187	16 37 35.138	-0.12	-48 40 01.19	-0.7	Per70		43537		227049	22419	336.71	-01.57
CoD -48°1107	16 37 40.733	+0.13	-48 39 29.31	-1.1	SAO				227053		336.73	-01.58
CoD -48°1107	16 37 49.66	0.00	-48 40 39.0	-0.7	Cp00ft						336.73	-01.61
CoD -48°1108	16 38 15.33	+0.08	-48 36 50.8	-3.1	Cp00ft						336.82	-01.62
V502 Oph	16 38 47.763	-0.13	+00 36 08.38	+2.1	AGK3			+0°2004	121784		017.21	+28.86
39 Her	16 39 34.863	-0.01	+27 00 42.82	-4.9	Per70		43548	+27°1547	084543	22468	046.72	+39.22
V651 Ara	16 39 45.		-56 46 36.		GCVS						330.82	-07.18
PSR 1639+36	16 39 54.		+36 33								059.01	+40.91
V653 Ara	16 40 59.		-54 53 42.		GCVS						332.37	-06.08
V659 Ara	16 42 01.		-61 20 48.		GCVS						327.49	-10.36
AH Her	16 42 05.994		+25 20 31.68								044.85	+38.24
V687 Ara	16 43 25.		-55 18 36.		GCVS						332.28	-06.61
AC Sco	16 43 29.		-27 18 00.		GCVS						353.74	+11.52
BD +86°252	16 43 45.610	+0.55	+86 31 58.37	-1.1	AGK3			+86°0223	002753		119.61	+29.16
HD 151564	16 46 31.310	+0.03	-41 32 08.29	-1.4	SAO				227278		343.13	+01.91
V1010 Oph	16 46 36.157	+0.07	-15 34 54.81	+2.8	SAO				160116	22631	003.76	+18.16
IY Aps	16 47 54.51		-73 57 53.2		LG90						317.57	-18.59
V610 Ara	16 47 58.531	-0.21	-57 10 41.04	+4.1	SAO				244209		331.24	-08.30
mu1 Sco	16 48 28.679	-0.098	-37 57 48.92	-2.88	FK4	1439	31439		208102	22677	346.12	+03.91
HD 151910	16 48 46.79		-40 42 49.7								344.05	+02.07
V919 Sco	16 48 48.358	-0.16	-41 46 16.53	-0.2	SAO				227328	22684	343.22	+01.43
LR Ara	16 49 05.67		-61 30 14.5		AC						327.91	-11.12
RW UMi	16 49 55.77		+77 07 16.2		D87						109.64	+33.16
HD 152219	16 50 24.570	-0.04	-41 47 59.48	-0.7	SAO				227370		343.39	+01.18

Name	RA(1950)	μ(RA)	Dec(1950)	μ(Dec)	Pos Ref	FK4	SRS	AGK3	SAO	GC	l	b
V900 Sco	16 50 27.600	-0.02	-41 54 47.89	-1.9	SAO				227374	22729	343.31	+01.10
HD 152218	16 50 29.301	-0.05	-41 38 00.94	-1.1	SAO				227376		343.53	+01.28
HD 152248	16 50 39.035	-0.11	-41 44 39.16	-1.5	SAO				227382	22736	343.46	+01.18
CoD -41°1103	16 50 42.242	-0.03	-41 45 40.46	+1.4	SAO				227385		343.46	+01.17
HR 6265	16 50 48.747	-0.10	-41 44 20.88	-1.2	SAO				227390	22742	343.49	+01.16
CoD -41°1104	16 50 48.88		-41 45 18.7		AC						343.48	+01.15
eps UMi	16 51 00.905	+0.519	+82 07 21.54	+0.33	FK4	912		+82°0491	002770	22749	115.00	+31.05
HD 152333	16 51 05.662	+0.01	-41 20 33.89	-1.4	SAO				227403		343.83	+01.37
TT Her	16 52 08.612	-0.01	+16 55 02.73	-4.6	AGK3			+16°1630	102464		035.98	+33.27
HD 152590	16 52 37.153	+0.14	-40 16 13.24	+0.3	SAO				227460		344.84	+01.83
V644 Her	16 52 57.654	+0.11	+13 41 57.63	-3.2	AGK3			+13°1628	102474	22808	032.56	+31.82
V861 Sco	16 53 06.857	+0.04	-40 44 43.53	-1.0	SAO				227473	22813	344.53	+01.46
V829 Her	16 53 59.426		+35 15 39.32		AC						057.87	+37.91
HD 153720	16 54 27.262	+0.64	+75 28 20.36	-0.4	AGK3			+75°0688	008651	22843	107.69	+33.52
V883 Sco	16 54 28.533	-0.10	-37 55 12.01	-0.2	SAO				208238		346.90	+03.02
AI Dra	16 55 08.726	-0.21	+52 46 31.80	-1.1	AGK3			+52°1107	030164	22859	080.20	+38.49
V841 Oph	16 56 41.885	-0.10	-12 48 59.45	+1.8	D87						007.62	+17.78
eps Her	16 58 22.471	-0.375	+30 59 55.92	+2.78	FK4	634	30634	+30°1561	065716	22935	052.85	+36.17
HD 153847	16 58 58.842	+0.08	+21 34 11.44	-5.4	AGK3			+21°1652	084759		324.81	+83.74
V598 Sco	16 59 29.		-34 36 30.		GCVS						350.13	+04.29

Name	Bayer	Flmstd	HR	HD	BD	CoD	CPD	Var	Other
the Dra	the Dra	13 Dra	5986	144284	+58°1608				13H Dra; Gl 609.1; IRC +60238
Z Nor				143882		-45°10414	-45°07780	Z Nor	217.1907; HV 3053
HD 144359				144359	+34°2731				
bet1 Sco	bet1 Sco	8 Sco	5984	144217	-19°4307		-19°05945		9H Sco; 18G Sco; CSV 101548; IRC -20305;
HR 5992			5992	144426	+8°3134				38G SerCp
HD 144515a				144515a	+11°2910				
X1603+260									X1603+260 (MS)
TW CrB					+27°2585			TW CrB	Wr 104
nu Sco	nu Sco	14 Sco	6027	145502	-19°4333		-19°05960		13H Sco; 38G Sco
HD 145519				145519	-18°4243				
13 Sco	c2 Sco	13 Sco	6028	145482		-27°10841	-27°05375		12H Sco; 37G Sco
V893 Sco								V893 Sco	SVS 1772
TZ CrB	sig2 CrB A	17 CrB A	6063	146361	34°2750A			TZ CrB	(7H Her A); G 180-42; Gl 615.2A; INCA 117
IT Nor				146241		-44°10742	-44°07817	IT Nor	BV 574
RR TrA							-62°05265	RR TrA	110.1910; HV 3282
HP Nor								HP Nor	773.1935; HV 8865
V818 Sco								V818 Sco	Sco X-1; X1617-155 (3A,H,1H,1M,4U)
sig Sco	sig Sco	20 Sco	6084	147165		-25°11485	-25°05785	sig Sco	15H Sco; 61G Sco; AFGL 1845; IRC -30260;
V1022 Oph								V1022 Oph	CSV 2651; HV 10559
U Sco					-17°4554			U Sco	N Sco 1863, 1906, 1936, 1978, 1987
gam Her	gam Her	20 Her	6095	147547	+19°3086				8H Her; CSV 101580; IRC +20296; NSV 07
GX Nor								GX Nor	
PSR 1620-26									PSR 1620-26
W UMi				150265	+86°0244			W UMi	12.1913; 23.1913
IK Nor								IK Nor	
V760 Sco				147683		-34°10981	-34°06506	V760 Sco	BV 577
21 Her	o Her	21 Her	6111	147869	+7°3164				4G Her
V699 Oph								V699 Oph	HV 10577
zet TrA	zet TrA		6098	147584		-69°01532	-69°02558		31G TrA; Gl 624
eps Nor	eps Nor		6115	147971		-47°10765	-47°07696		57G Nor
chi Oph	chi Oph	7 Oph	6118	148184	-18°4282			chi Oph	5H Oph; 15G Oph; MWC 241; Zi 1244
ups Oph	ups Oph	3 Oph	6129	148367	-8°4243				6H Oph; 18G Oph
V2060 Oph								V2060 Oph	CSV 2709; HV 10600
bet Her	bet Her	27 Her	6148	148856	+21°2934				13H Her; CSV 101593; IRC +20300; NSV 0
V592 Her								V592 Her	N Her 1968; S 10376

Name	Bayer	Flmstd	HR	HD	BD	CoD	CPD	Var	Other
32 Her		32 Her		149420	+30°2834				
V918 Sco			6164	149404		-42°11399	-42°07441	V918 Sco	(61G Nor); He 3-1222; CSV 3672; NSV 0784
HR 6169			6169	149632	+17°3053				
V2133 Oph		12 Oph	6171	149661	-1°3220			V2133 Oph	27G Oph; BD -2°4211; Gl 631
V600 Her				149881	+14°3086			V600 Her	CSV 7409
V349 Ara				149573		-60°06363	-60°06595	V349 Ara	BV 480
V954 Sco				149779		-43°10964	-43°07637	V954 Sco	BV 1474; NSV 07868
R Ara				149730		-56°06482	-56°07804	R Ara	
V544 Her								V544 Her	S 9789
HD 149834				149834		-48°11033	-48°08660		HH 696
CoD -48°11060						-48°11060	-48°08694		HH 680
HR 6187			6187	150136		-48°11070	-48°08703 A		4G Ara; LSS 3701; NGC 6193-1
CoD -48°11071						-48°11071	-48°08705		HH 667; NGC 6193-7
CoD -48°11077						-48°11077	-48°08712		HH 124; LSS 3704; NGC 6193-5
CoD -48°11088						-48°11088	-48°08726		HH 690; NGC 6193-27
V502 Oph				150484	+0°3562			V502 Oph	65.1935; P 4113
39 Her		39 Her	6213	150682	+27°2668				
V651 Ara								V651 Ara	CSV 7442; S 5864
PSR 1639+36B									PSR 1639+36B
V653 Ara								V653 Ara	CSV 7450; S 5877
V659 Ara								V659 Ara	CSV 7458; S 5884
AH Her								AH Her	20.1923; PG 1642+253; SVS 32
V687 Ara								V687 Ara	CSV 7470; S 5900
AC Sco								AC Sco	247.1904; HV 1095
BD +86°252					+86°0252				13.1913; CSV 101629; NSV 07956; Zi 1308
HD 151564				151564		-41°10930	-41°07651		LSS 3768
V1010 Oph			6240	151676	-15°4395			V1010 Oph	48G Oph; BV 544
IY Aps								IY Aps	CSV 7488; S 5612
V610 Ara				151697		-57°06594	-57°08150	V610 Ara	BV 1259; CSV 7496; S 5931
mu1 Sco	mu1 Sco		6247	151890		-37°11033	-37°06761	mu1 Sco	98G Sco; P 1125
HD 151910				151910		-40°10832	-40°07549		
V919 Sco			6249	151932		-41°10972	-41°07673	V919 Sco	He 3-1266; LSS 3785; MR 64; WR 78
LR Ara						-61°05651	-61°05799	LR Ara	115.1907; HV 2967; P 1270
RW UMi								RW UMi	N UMi 1956; SVS 1359
HD 152219				152219		-41°11018	-41°07707		NGC 6231-254; NSV 08017; X1650-417 (1ES

Name	Bayer	Flmstd	HR	HD	BD	CoD	CPD	Var	Other
V900 Sco			6261	152235		-41°11021	-41°07709	V900 Sco	LSS 3807
HD 152218				152218		-41°11022	-41°07713		NGC 6231-2; NSV 08020
HD 152248				152248		-41°11033	-41°07728		CSV 7520; NGC 6231-291; NSV 08022
CoD -41°11038				326329		-41°11038	-41°07733		NGC 6231-292
HR 6265			6265	152270		-41°11041	-41°07741		He 3-1274; LSS 3810; MR 65; NGC 6231-22
CoD -41°11042						-41°11042	-41°07742		NGC 6231-224; NSV 08024
eps UMi	eps UMi	22 UMi	6322	153751	+82°0498			eps UMi	10H UMi; INCA 2334; Zi 1298
HD 152333				152333		-41°11055	-41°07754		LSS 3821
TT Her					+17°3117			TT Her	176.1907; HV 3017
HD 152590				152590		-40°10956	-40°07624		LSS 3843
V644 Her			6290	152830	+13°3258			V644 Her	
V861 Sco			6283	152667		-40°10975	-40°07639	V861 Sco	112G Sco; BV 755; CSV 7538; He 3-1291; L
V829 Her								V829 Her	X1654+353 (1E, MS)
HD 153720				153720	+75°0608				
V883 Sco				152901		-37°11118	-37°06811	V883 Sco	BV 1390
Al Dra				153345	+52°2009			Al Dra	BV 50; CSV 0101620
V841 Oph			6309		-12°4633			V841 Oph	N Oph 1848
eps Her	eps Her	58 Her	6324	153808	+31°2947				24H Her
HD 153847				153847	+21°3022				
V598 Sco								V598 Sco	HV 10836

Name	Sp1	Sp2	T-JD 2400000	P	e	omel	V0	K1	K2	v1 sin i	v2 sin i
the Dra	F8IV	[M4V]	46278.4998	3.0707943	0	-	-9.3	24.22		27	
Z Nor	B3IV	(B5)	43343.9897	2.556914							
HD 144359	A1IV		40265.386	4.384194	0.256	53.7	-15.14	57.31			
bet1 Sco	B1V	(B2.5V)	18501.531	6.828243	0.286	17.42	-5.0	125.3	198.0	130	
HR 5992	A3/F0m		22846.704	8.855	0.376	265.41	-21.54	31.62		39	
HD 144515a	G8V		46352.57	4.285439	0.026	107	-60.66	47.18		*	
X1603+260			47670.72709	0.077108							
TW CrB	[A5]	(F1)	37898.3681	0.58887327							
nu Sco	B3VpSi	[F8V]	42185.555	5.55206	0.11	267	+4.1	26.5		75	
HD 145519	B9Vn		37545.882	3.36059	0.33	6	-6.0	26.3		300:	
13 Sco	B2V	[A7V]	43298.40	5.780531	0.19	115	-3.8	31.5		225	
V893 Sco				[0.108]							
TZ CrB	F6V	G0VCaIIe	23869.3774	1.1397912	0.022	85	-12.17	63.42	65.37	26	25.*
IT Nor	B9.5III	(A6)	38236.315	0.63579							
RR TrA	B8V	F0IV	35629.36932	0.71309172							
HP Nor	sdBe			(0.183)	0	-	-	> =90.		817 e	
V818 Sco	Pec		45084.733	0.787313	0	-	-138.5	58.2			
sig Sco	B2III	O9.5V	34895.2	34.23	0.36	308	+2.5	34.0		53	
V1022 Oph	[K4]	(K3.5)	44441.5624	0.2394							
U Sco	sdOe	G3-6III-IV	47717.606	1.2344							
gam Her	A9III			11.9?						141	
GX Nor	[K0]	(K0)	25694.210	0.268782							
PSR 1620-26	(PSR)		47197.219	191.4427	0.025316	117.12	-	7.38288			
W UMi	A3V	G9IV	33682.907	1.7011576	0.09	221.6	-17.9	86.6		75	
IK Nor				(0.072 or 0.176 ACP)							
V760 Sco	B4V	(B4V)	43250.16751	1.7309337	0.0265 phi	311.00 phi	+0.5	179.6	193.6		
21 Her	A2[V]pSr	[M4V]	21773.086	4.951	0.511	355.92	-34.36	16.28		*	
V699 Oph				(0.094: ACP)							
zet TrA	F9V	[M5V]	18103.642	12.9762	0.060	274.54	+7.58	7.41			
eps Nor	B4V	(B4V)	38825.931	3.2617	0.125	271.5	-12.5	122.5	132.9	165	
chi Oph	B1.5Ve		41854.4	34.1211	0.262	0	-13.0	15.4		140	
ups Oph	A2.5/4/7[V]m	(A8V)	38914.84	27.218	0.744	333.7	-33.6	34.9	41.1	44	
V2060 Oph				0.22							
bet Her	G7IIIa		47615.3:	410.575	0.5498	103.6	-25.52	12.782		< 19:	
V592 Her											

Name	Sp1	Sp2	T-JD 2400000	P	e	omel	V0	K1	K2	v1 sin i	v2 sin i
32 Her	A9IV		28006.493	3.39430	0.025	355.23	-16.24	68.18		25	
V918 Sco	O8.5I	O7III(f)	42498.7	9.813	0	-	-35.	101	60	140	
HR 6169	A2V [A2IV]	(A3V)	22422.236	10.56	0.430	4.12	-9.88	62.41	101.36	71	
V2133 Oph	K0V			11.						3.6	
V600 Her	B0.5III	[A4V]	23936.3	5.20065	0.11	128	+17.0	21.4		85	
V349 Ara	A5V	(A9)	38229.310	1.13837							
V954 Sco	B2IV	(B2IV)	45532.525	1.268621							
R Ara	B9IV-Veq		46585.0724	4.425132	0.43 phi	70.5 phi	-35.	60:			
V544 Her				0.069?							
HD 149834	B2/3III		46227.16	4.38	0.03	329	-36.	23		160	
CoD -48°1106	(B3V)		46224.3	2.7496	0.19	86	-32.	18		90	
HR 6187	O5III:n(f)	O6:	46224.89	2.676147	0.04	10	-27.	111		152	
CoD -48°1107	B0IV		46276.7	28.54	0.55	259	-37.	51		80	
CoD -48°1107	B3V		46224.6	5.902	0.17	53	-36.	30		125	
CoD -48°1108	(B2.5V)		46223.5	2.3108	0.25	322	-25.	44		150	
V502 Oph	G2V	F9V	43668.7951	0.453388363	0	-	-47.	86	232		
39 Her	F2III	F5(III-IV)	44699.510	2.307573	0	-	-13.6	99.6	111.4		
V651 Ara	[G8]	(G7)	36725.305	0.27706							
PSR 1639+36	(psr)		47149.9983	1.259113	< 0.001	-	-	24.05			
V653 Ara	[K1]	(G9)	36721.310	0.2614							
V659 Ara	[G7]	(G5)	36695.362	0.29188							
AH Her	sdBe	K2:V	44393.696	0.258116	0	-	+24.	126	158	618 Sh;	112
V687 Ara				0.3:							
AC Sco											
BD +86°252	G8			[0.108]							
HD 151564	O9.5IV	[B4V]	40820.3	4.56	0	-	-39.6	59.9			
V1010 Oph	A7IV-V	(G3IV-V)	43271.4338	0.66142563	0	-	-41.	101		155	
IY Aps	[G0]	(F5)	36720.390	0.3422							
V610 Ara	F0V	(G5IV)	36689.430	1.484060							
mu1 Sco	B1.5V	B6.5V	32001.760	1.44626907	0.04	268	-2.0	154	278	209	159
HD 151910	B3II	[B2V]	43401.55	2.7038	0	-	-28.3	75.1			
V919 Sco	WN7a			3.3?							
LR Ara	B2(V)	(B2V)	28004.43	1.519304							
RW UMi	sdBe			0.0812?							
HD 152219	O9.5III	[B1V]	40813.7	4.16	0.10	100	-27.2	117.4		160	

Name	Sp1	Sp2	T-JD 2400000	P	e	omel	V0	K1	K2	v1 sin i	v2 sin i
V900 Sco	B0.5Iae		42469.86	2.63	0	-	-35.1	9.5			
HD 152218	O9IV	[O9.5V]	40816.8	5.40	0.26	23	-18.	161	202	140	
HD 152248	O7Ib:(f)	O6.5:[III]f	40817.09	5.97	0	-	-16.	191	206	< 100.	
CoD -41°1103	O9.5V	[B2.5V]	40810.6	5.64	0.04	61	-18.4	89.0		55	
HR 6265	WC7	O5-8(Ib)	41163.05	8.8908	0	-	-27.2	142	51		
CoD -41°1104	O9IV	[B0V]	40814.0	2.446	0.07	58	-8.6	162.5		130	
eps UMi	G5III	A8-F0V	31918.684	39.4809	0.039	323.5	-10.57	31.77		24.0	
HD 152333	B1/2Ib/II	[B1V]	43401.21	2.1579	0	-	-30.8	97.8			
TT Her	A2V	(G5V)	39995.908	0.91207546	0.00	-	+21.8	86.8			
HD 152590	O7.5V	[B1.5V]	43404.11	4.4870	0.35	78	-30.7	73.2			
V644 Her	F2IV		44553.759	11.858592	0.3650	267.72	-0.59	27.44		23	
V861 Sco	B0.5Iae	(B4II-III)	43876.730	7.848265	0	-	-	77.1		161	
V829 Her	G2		47680.8912	0.35813						95	
HD 153720	F0[V]	(F0V)	41018.702	11.01147	0.389	306.3	-13.6	72.5	73.2		
V883 Sco	B2.5Vn	(B7.5)	43285.794	1.29484	0	-	+14.	(-33.)		490	
Al Dra	B9.5V	F6IV	43291.124	1.1988146	0.0	-	-1.3	93.5		79	
V841 Oph	sdBe	(K0V)		0.60423	0	-	-	80:		59 Wi	
eps Her	A0V	A2(V)	17948.784	4.0235	0.023	138	-24.2	70.7	112.0	78	
HD 153847	F0Vwl		46675.710	5.38	0.0	-	+12.6	60.9	64.9		
V598 Sco				[0.108]							

Name	Spectroscopic orbit
the Dra	Lu, W.-X., Shen, L.-Z., Jiang, Z.-J. 1988, Acta Astr. Sin., 8, 99 (Chinese Astr. Ap., 12, 228)
Z Nor	
HD 144359	Woolley, R., Penston, M.J., Harding, G.A., Martin, W.L., Sinclair, J.E., Haslam, C.M., Aslan, S., Savage, A., Aly, K., Asaad, A.S. 1981, R.
bet1 Sco	Peterson, D.M., Elliot, J.L., Mink, D.J. 1979, PASP, 91, 87
HR 5992	Campbell, J.W. 1921, Pub. DAO, 1, 315
HD 144515a	Lu, W.-X. 1990, AAp Sin., 10, 147 (1990 Chinese AAp, 14, 282)
X1603+260	
TW CrB	
nu Sco	Levato, H., Malaroda, S., Morrell, N., Solivella, G. 1986, ApJ Suppl., 64, 487
HD 145519	Levato, H., Malaroda, S., Morrell, N., Solivella, G. 1987, ApJ Suppl., 64, 487
13 Sco	Levato, H., Malaroda, S., Morrell, N., Solivella, G. 1986, ApJ Suppl., 64, 487
V893 Sco	
TZ CrB	Bakos, G.A. 1984, AJ, 89, 1740
IT Nor	
RR TrA	
HP Nor	(Wargau, W., Vogt, N. 1982, Mitt. AG, 55, 77)
V818 Sco	Cowley, A.P., Crampton, D. 1975, ApJ, 201, L65
sig Sco	Struve, O., et al. 1961, ApJ, 133, 509
V1022 Oph	
U Sco	
gam Her	
GX Nor	
PSR 1620-26	McKenna, J., Lyne, A.G. 1988, Nature, 336, 226
W UMi	Sahade, J. 1945, ApJ, 102, 470
IK Nor	
V760 Sco	Andersen, J., et al. 1985, Astr. Ap., 151, 329
21 Her	Harper, W.E. 1928, Pub. DAO, 4, 179
V699 Oph	
zet TrA	Jones, H.S. 1928, Cape Ann., 10, pt. 8, 64
eps Nor	Thackeray, A.D. 1966, MN, 134, 97
chi Oph	Harmanec, P. 1987, BAC, 38, 283
ups Oph	Gutmann, F. 1966, Pub. DAO, 12, 391
V2060 Oph	
bet Her	Plummer, H.C. 1908, Lick Obs. Bull., 5, 24; Pan, X.P., et al. 1990, BAAS, 22, 1335
V592 Her	

Name	Spectroscopic orbit
32 Her	McKellar, A. 1935, Pub. DAO, 6, 291
V918 Sco	Massey, P., Conti, P.S. 1979, IAU Symp. 83, p. 271
HR 6169	Young, R.K. 1920, Pub. DAO, 1, 233
V2133 Oph	
V600 Her	Hill, G., Drolet, B., Odgers, G.J. 1976, AAp, 51, 1
V349 Ara	
V954 Sco	
R Ara	Sahade, J. 1952, ApJ, 116, 27
V544 Her	
HD 149834	Arnal, M., Morrell, N., Garcia, B., Levato, H. 1988, PASP, 100, 1076
CoD -48°1106	Arnal, M., Morrell, N., Garcia, B., Levato, H. 1988, PASP, 100, 1076
HR 6187	Arnal, M., Morrell, N., Garcia, B., Levato, H. 1988, PASP, 100, 1076
CoD -48°1107	Arnal, M., Morrell, N., Garcia, B., Levato, H. 1988, PASP, 100, 1076
CoD -48°1107	Arnal, M., Morrell, N., Garcia, B., Levato, H. 1988, PASP, 100, 1076
CoD -48°1108	Arnal, M., Morrell, N., Garcia, B., Levato, H. 1988, PASP, 100, 1076
V502 Oph	King, D.J., Hilditch, R.W. 1984, MN, 209, 645
39 Her	Mayor, M., Mazeh, T. 1987, Astr. Ap., 171, 157
V651 Ara	
PSR 1639+36	Anderson, S.B., Kulkarni, S.R., Prince, T.A., Wolszczan, A. 1991, poster paper presented at the NATO Advanced Research Workshop on X-Ray
V653 Ara	
V659 Ara	
AH Her	Horne, K., Wade, R.A., Szkody, P. 1986, MN, 219, 791
V687 Ara	
AC Sco	
BD +86°252	
HD 151564	Hill, G., Crawford, D.L., Barnes, J.V. 1974, AJ, 79, 271
V1010 Oph	Guinan, E.F., Koch, R.H. 1977, PASP, 89, 74
IY Aps	
V610 Ara	
mu1 Sco	Levato, H., Malaroda, S., Morrell, N., Solivella, G. 1986, ApJ Suppl., 64, 487
HD 151910	Gieseking, F. 1982, AAp Suppl., 49, 673
V919 Sco	
LR Ara	
RW UMi	
HD 152219	Hill, G., Crawford, D.L., Barnes, J.V. 1974, AJ, 79, 1271

Name	Spectroscopic orbit
V900 Sco	(Struve, O. 1944, ApJ, 100, 189)
HD 152218	Hill, G., Crawford, D.L., Barnes, J.V. 1974, AJ, 79, 1271
HD 152248	Hill, G., Crawford, D.L., Barnes, J.V. 1974, AJ, 79, 1271
CoD -41°1103	Hill, G., Crawford, D.L., Barnes, J.V. 1974, AJ, 79, 1271
HR 6265	Seggewiss, W. 1974, AAp, 31, 211
CoD -41°1104	Hill, G., Crawford, D.L., Barnes, J.V. 1974, AJ, 79, 1271
eps UMi	Climenhaga, J.L., et al. 1951, Pub. DAO, 8, 401
HD 152333	Gieseking, F. 1982, AAp Suppl., 49, 673
TT Her	Sanford, R.F. 1937, ApJ, 86, 153
HD 152590	Gieseking, F. 1982, AAp Suppl., 49, 673
V644 Her	Bardin, C., Imbert, M. 1982, AAp Suppl., 47, 319
V861 Sco	Stickland, D.J., Howarth, I.D. 1991, Obs. 111, 23
V829 Her	
HD 153720	Heard, J.F., Hurkens, R.J. 1975, JRASC, 69, 25
V883 Sco	(Thackeray, A.D., Tritton, S.B., Walker, E.N. 1973, Mem. RAS, 77, 199)
AI Dra	Duerbeck, H.W., Teuber, D. 1978, Acta Astr., 28, 41
V841 Oph	Friedjung, M., Bianchini, A., Sabbadin, F. 1988, Messenger, No. 52, p. 49
eps Her	Luyten, W.J. 1936, ApJ, 84, 85
HD 153847	Jasniewicz, G., Mayor, M. 1988, AAp, 203, 329
V598 Sco	

Name	V	B-V	U-B	R-I	E(B-V)	par	Cluster	ADS	Vis Binary	Companions
the Dra	4.000	+0.525	+0.096	+0.25	0.00	0.051				
Z Nor	9.34 p	+0.32								
HD 144359	6.73	+0.06	+0.02							
bet1 Sco	2.62	-0.07	-0.87	-0.09	0.14	0.009	Cr 302	9913 A	bet 947 A; H III 7 A	4.2v, 0.001"; 5.9, 0.5"; 4.92V, B2V,
HR 5992	6.29	+0.08	+0.11	+0.06						
HD 144515a	8.28	+0.78	+0.29			0.024				Unresolved SB comp
X1603+260	19.73									
TW CrB	10.5 p									
nu Sco	4.01	+0.04	-0.65	+0.03	0.25	0.030	Sco-Cen	9951 A	CHARA 146 Aa; bet	0.063"; 6.9v, 0.0003"; 6.9v, 1"; 6.30
HD 145519	7.98	+0.25	0.00				<Cr 302>			
13 Sco	4.59	-0.16	-0.74	-0.17	0.09		Cr 302?			
V893 Sco	10.6 p				0.08 m					
TZ CrB	5.64	+0.47	0.00			0.045; D0.048; R0.0449		9979 A	Sig 2032 A (orb)	6.59, G1V, 6.599"; 13v, 9"; 10.8v, 7
IT Nor	9.9	+0.60								
RR TrA	10.36									
HP Nor	13.13	+0.11	-0.64		0.11		H 10?			
V818 Sco	12.70	+0.20	-0.82		0.35 u		<Cr 302>			
sig Sco	2.89	+0.13	-0.70	+0.11	0.44		Cr 302	10009 A	H IV 121 A	5.3v, 0.0005"; 8.26V, B9V, 20.3"; 5.
V1022 Oph	15.1 B									
U Sco	17.92	+0.56	-0.34	+0.47	0.24					
gam Her	3.75	+0.27	+0.18	+0.14		0.024	Hyades gp	10022 A	S,h 227 A	9.58v, 41.6"
GX Nor	14.0 p									
PSR 1620-26					0.36 g		NGC 6121			
W UMi	8.51				0.19 m					
IK Nor	12.9 p				0.16 m		H 10?			
V760 Sco	6.99	+0.19	-0.38		0.32		Cr 302?			
21 Her	5.85	-0.01	+0.01		0.00					
V699 Oph	13.8 p				0.23 m					
zet TrA	4.91	+0.55	+0.04	+0.28	0.00	0.094;	Sirius scl			
eps Nor	4.57	-0.07	-0.53	-0.04	0.14		(Sco-Cen)		h 4853 A	7.46v, B9V, 22.8"
chi Oph	4.42	+0.28	-0.75	+0.22			Sco OB2; <Cr 302>			
ups Oph	4.63	+0.17	+0.08	+0.09	0.01	0.028			Rst 3949 A	del m=3.2, 1.1"
V2060 Oph	15.11 p									
bet Her	2.77	+0.94	+0.69	+0.47		0.024			bet pm A	del m=7.3, 256.2"
V592 Her	12.3 p									

Name	V	B-V	U-B	R-I	E(B-V)	par	Cluster	ADS	Vis Binary	Companions
32 Her	6.87	+0.23	+0.13	+0.11				10116 A	bet 818 A	13.9, 3.8"
V918 Sco	5.47	+0.40	-0.63	+0.35	0.75		Ara OB1a			
HR 6169	6.41	+0.05	0.00		0.00				Webb A	del m=1.0, A2V, 156.6"
V2133 Oph	5.75	+0.82	+0.48	+0.39		0.093			bet pm A	13.6, 100.3"
V600 Her	7.05	-0.18	-0.96		0.09					
V349 Ara	8.6 p									
V954 Sco	7.49	+0.23	-0.61		0.46		Ara OB1a?			
R Ara	6.55	+0.10	-0.17						h 4866 A	8.2v, 4"
V544 Her	14.5 p									
HD 149834	9.17	+0.21	-0.57				NGC 6193			
CoD -48°1106	10.71	+0.18	-0.50	+0.11			NGC 6193			
HR 6187	5.65	+0.13	-0.80			D0.007	NGC 6193		MlbO 8 A; Del 206	9.0, 1.6"; 6.89, O7V, 9.6"
CoD -48°1107	8.45	+0.17	-0.71	+0.16			NGC 6193			
CoD -48°1107	10.42	+0.31	-0.32	+0.31			NGC 6193			
CoD -48°1108	10.05	+0.31	-0.38	+0.29			NGC 6193			
V502 Oph	8.34	+0.63	+0.18							
39 Her	5.92	+0.40	-0.07		0.03				CHARA 57	
V651 Ara	14.6 p									
PSR 1639+36B					0.03		NGC 6205			
V653 Ara	12.3 p									
V659 Ara	13.9 p									
AH Her	11.3 v	+0.08	-0.75	+0.08	0.03 u					
V687 Ara	13.0 p									
AC Sco	12.5 p						<Cr 302>			
BD +86°252	9.4 v				0.06 m					
HD 151564	7.96	+0.11	-0.72		0.45		Sco OB1			
V1010 Oph	6.08	+0.78	+0.54				(Cr 302)			
IY Aps	12.7 p									
V610 Ara	8.8 p									
mu1 Sco	2.94	-0.20	-0.87	-0.19	0.01		Cr 302			3.57V, B2IV, 346"
HD 151910	9.8 p				0.42 m		(Tr 24)		Rst 1903 A	
V919 Sco	6.57	+0.21	+0.03	+0.39	0.43 u		NGC 6231			
LR Ara	10.0 p									
RW UMi	18.70	-0.059								
HD 152219	7.66	+0.15	-0.79		0.43		NGC 6231			

Name	V	B-V	U-B	R-I	E(B-V)	par	Cluster	ADS	Vis Binary	Companions
V900 Sco	6.32	+0.50	-0.45				<Sco OB1>; <NGC 6231>			
HD 152218	7.61	+0.17	-0.77		0.48		NGC 6231			
HD 152248	6.11	+0.14	-0.78		0.48		NGC 6231		Iam 297 A	
CoD -41°1103	7.86	+0.17	-0.72		0.47		NGC 6231			
HR 6265	6.95	+0.06	-0.54	+0.33	0.47 u		NGC 6231		B 1834 A	13.2, 4.3"
CoD -41°1104	8.285	+0.212	-0.699	+0.21	0.57		NGC 5231		B 1835 A	10.17V
eps UMi	4.19	+0.89	+0.55	+0.47	0.00	0.010		10242 A	HdO 143 A	12.5, 76.9"
HD 152333	8.02	+0.22	-0.67		0.42		NGC 6231			
TT Her	9.61	+0.28	+0.12		0.15					
HD 152590	8.46	+0.11	-0.81		0.42		Tr 24			
V644 Her	6.34	+0.34	+0.06							
V861 Sco	6.07	+0.26	-0.67		0.55		Sco OB1			
V829 Her	10.10									
HD 153720	6.84 p				0.03 m					
V883 Sco	7.34	+0.13	-0.56				(Cr 316)		Jsp 700 A	12.60, 9"
AI Dra	7.05	-0.07			0.03					
V841 Oph	13.31	+0.39	-0.59		0.39					
eps Her	3.92	-0.01	-0.10	-0.04	0.00	0.028				
HD 153847	7.24	+0.38								
V598 Sco	14.8 p				0.26 m					

Name	Vbl type	Min I	Min II	D	d	i	r1	r2	II	qph
the Dra										
Z Nor	EA/SD	10.15 p	9.59 p			78.5	0.332	0.282	0.74 p	0.34
HD 144359										
bet1 Sco	-						0.279 ome		0.76 s	
HR 5992										
HD 144515a										
X1603+260				[0.097]						
TW CrB	EB/KE	11.3 p	11.0 p			83.5	0.558	0.223	0.94 p	0.15
nu Sco						53.50 pi				
HD 145519										
13 Sco						51.27 pi				
V893 Sco	UG:	14.5 p				57.63 pi				
TZ CrB	RS+DSCT:						0.20 ome	0.19 ome	0.55 s	
IT Nor	EB/KE	(0.6 p)	(0.4 p)			78.	0.462	0.295	0.84 p	0.40
RR TrA	EA/SD	11.85	10.60	0.20	0.025	87.2	0.340	0.331	0.820 Y	0.59
HP Nor	UGZ	16.41				29.32 w				
V818 Sco	XI									
sig Sco	BCEP					13.40 s				
V1022 Oph	EW/KW	16.12 B	15.95 B		0.06:	88.	0.40	0.32	0.56 B	0.80
U Sco	NR			[0.11]					0.65 V s	
gam Her	-									
GX Nor	EW/KW	15.0 p	15.0 p			88.	0.41	0.31	0.62 p	0.70
PSR 1620-26										
W UMi	EA/SD	9.59	8.66	0.23	0.02	86.0	0.368	0.290	0.937 V	(> =0.3390)
IK Nor	UG	16.3 p				57.63 pi				
V760 Sco	EA/DM	7.42	7.41	0.17	0.02	82.17	0.234	0.205	0.584 y	
21 Her						52.90 pi				
V699 Oph	UG	18.5 p				57.63 pi				
zet TrA						56.19 pi				
eps Nor						51.46 s	0.595 ome			
chi Oph	GCAS									
ups Oph						28.39 s	0.104 ome		0.62 s	
V2060 Oph	EW:/KW:	15.73 p								
bet Her	-					100.2			0.968 V	
V592 Her	NA	>21.8 p								

Name	Vbl type	Min I	Min II	D	d	i	r1	r2	II	qph
32 Her						69.01 pi				
V918 Sco	ELL					22.46 s	0.87 ome			
HR 6169						69.64 s	0.215 ome		0.66 s	
V2133 Oph	BY	(0.04)								
V600 Her	ELL+BCEP:					47.35 pi				
V349 Ara	EB/DM	8.8 p	8.8 p			74.	0.378	0.370	0.64 p	0.96
V954 Sco	EB/KE	7.74	7.74			63.24	0.3724	0.3523	0.5379 y	(1.00 assumed
R Ara	EA/DM:	7.20	6.65	0.09		84.1	0.214	0.277	0.3666 V*	
V544 Her	UG	20: p								
HD 149834		9.37	9.29							
CoD -48°11060										
HR 6187										
CoD -48°11071										
CoD -48°11077										
CoD -48°11088										
V502 Oph	EW/KW	8.84	8.81			70.2	0.4735	0.3052	0.6419 V	0.379
39 Her						65.30 s			0.59 s	
V651 Ara	EW/KW	15.4 p	15.3 p			83.	0.419	0.298	0.63 p	0.62
PSR 1639+36B										
V653 Ara	EW/KW	12.8 p	12.6 p			74.	0.410	0.308	0.52 p	0.70
V659 Ara	EW/KW	14.5 p	14.4 p			77.5	0.422	0.295	0.63 p	0.60
AH Her	UGZ	14.12				43.14 p		0.394 ome		
V687 Ara	EW:	13.3 p								
AC Sco	UG:	>16. p								
BD +86°252	UG:	11.5: v				57.63 pi				
HD 151564						48.27 pi				
V1010 Oph	EB/KE	7.00	6.46			86.05	0.4505	0.3038	0.927 Hbet	0.4461
IY Aps	EW/KW	13.0 p	12.9 p			67.	0.436	0.284	0.60 p	0.52
V610 Ara	EB/SD:	9.2 p				74.	0.230	0.305	0.74 p	0.45
mu1 Sco	EB/SD	3.22	3.12			63.18	0.358	0.343	0.689 B	0.674
HD 151910						23.48 pi				
V919 Sco	WR									
LR Ara	EB/DM:	10.6 p	10.6 p			78.	0.374	0.374	0.50 p	1.0
RW UMi	NA									
HD 152219	-					58.27 s				

Name	Vbl type	Min I	Min II	D	d	i	r1	r2	II	qph
V900 Sco	ELL:									
HD 152218	-									
HD 152248	E:					51.38 s	0.273 ome			
CoD -41°11038						109.	<0.251 ome			
HR 6265						63.24 pi				
						44.8 P				
CoD -41°1104	-									
eps UMi	EA/RS/D	4.23	4.21			46.77 pi				
HD 152333						82.4	0.154	0.022	0.959 B	
TT Her	EB/KE	10.31	9.87:			25.34 pi				
HD 152590						82.31	0.444	0.278	0.9488 V	0.439
						39.00 pi				
V644 Her	DSCTC									
V861 Sco	EB	6.40	6.28							
V829 Her	EW/KW	(0.26)	(0.26)			77.3	0.474	0.155	0.99795 bol	0.338
HD 153720						~50.	0.466:	0.379:	0.602: bol	~0.6
V883 Sco	EB/KE	7.66	(deep)			80.17 s				
						65.	0.440	0.313	0.86 V	0.50
Al Dra	EA/SD	8.09	7.16	0.18; 0.16	0.000	81.8	0.314	0.276	0.959 V	0.431
V841 Oph	NB									
eps Her						62.46 s	0.43 ome		0.80 s	
HD 153847										
V598 Sco	UG	> 16.5 p				57.63 pi				

Name	Photometric solution
the Dra	
Z Nor	Svechnikov, M.A., Kuznetsova, E.F. 1990, Katalog Priblizhennykh Fotometricheskikh i Absolyutnykh Elementov Zatmennykh Peremennykh Zvez
HD 144359	
bet1 Sco	
HR 5992	
HD 144515a	
X1603+260	(Morris, S.L., Liebert, J., Stocke, J.T., Gioia, I.M., Schild, R.E., Wolter, A. 1990, ApJ, 365, 686)
TW CrB	Svechnikov, M.A., Kuznetsova, E.F. 1990, Katalog Priblizhennykh Fotometricheskikh i Absolyutnykh Elementov Zatmennykh Peremennykh Zvez
nu Sco	
HD 145519	
13 Sco	
V893 Sco	
TZ CrB	
IT Nor	Svechnikov, M.A., Kuznetsova, E.F. 1990, Katalog Priblizhennykh Fotometricheskikh i Absolyutnykh Elementov Zatmennykh Peremennykh Zvez
RR TrA	Li, Y.-F., Leung, K.-C. 1987, AJ, 93, 678
HP Nor	
V818 Sco	
sig Sco	
V1022 Oph	Svechnikov, M.A., Kuznetsova, E.F. 1990, Katalog Priblizhennykh Fotometricheskikh i Absolyutnykh Elementov Zatmennykh Peremennykh Zvez
U Sco	Schaefer, B.E. 1990, ApJ, 355, L39; Webbink, R.F., Livio, M., Truran, J.W., Orio, M. 1987, ApJ, 314, 653
gam Her	
GX Nor	Svechnikov, M.A., Kuznetsova, E.F. 1990, Katalog Priblizhennykh Fotometricheskikh i Absolyutnykh Elementov Zatmennykh Peremennykh Zvez
PSR 1620-26	
W UMi	Mardirossian, F., et al. 1980, AAp Suppl., 40, 57
IK Nor	
V760 Sco	Andersen, J., et al. 1985, Astr. Ap., 151, 329
21 Her	
V699 Oph	
zet TrA	
eps Nor	
chi Oph	
ups Oph	
V2060 Oph	(Kinman, T.D., Wirtanen, C.A., Janes, K.A. 1965, ApJ Sup, 11, 223)
bet Her	Pan, X.P., Shao, M., Colavito, M.M., Hines, B.E., Armstrong, J.T., Denisson, C.S., Vivekanand, M., Mozurkewich, D., Simon, R.S., Johnston
V592 Her	

Name	Photometric solution
32 Her	
V918 Sco	
HR 6169	
V2133 Oph	
V600 Her	
V349 Ara	Svechnikov, M.A., Kuznetsova, E.F. 1990, Katalog Priblizhennykh Fotometricheskikh i Absolyutnykh Elementov Zatmennykh Peremennykh Zvez
V954 Sco	vander Linden, D., et al. 1986, Astr. Ap., 167, 53
R Ara	Banks, T. 1990, IBVS 3455
V544 Her	
HD 149834	
CoD -48°11060	
HR 6187	
CoD -48°11071	
CoD -48°11077	
CoD -48°11088	
V502 Oph	Zola, S., Krzesinski, J. 1988, IBVS 3218
39 Her	
V651 Ara	Svechnikov, M.A., Kuznetsova, E.F. 1990, Katalog Priblizhennykh Fotometricheskikh i Absolyutnykh Elementov Zatmennykh Peremennykh Zvez
PSR 1639+36B	
V653 Ara	Svechnikov, M.A., Kuznetsova, E.F. 1990, Katalog Priblizhennykh Fotometricheskikh i Absolyutnykh Elementov Zatmennykh Peremennykh Zvez
V659 Ara	Svechnikov, M.A., Kuznetsova, E.F. 1990, Katalog Priblizhennykh Fotometricheskikh i Absolyutnykh Elementov Zatmennykh Peremennykh Zvez
AH Her	
V687 Ara	
AC Sco	
BD +86°252	
HD 151564	
V1010 Oph	Corcoran, M.F., Siah, M.J., Guinan, E.F. 1991, AJ, 101, 1828
IY Aps	Svechnikov, M.A., Kuznetsova, E.F. 1990, Katalog Priblizhennykh Fotometricheskikh i Absolyutnykh Elementov Zatmennykh Peremennykh Zvez
V610 Ara	Svechnikov, M.A., Kuznetsova, E.F. 1990, Katalog Priblizhennykh Fotometricheskikh i Absolyutnykh Elementov Zatmennykh Peremennykh Zvez
mu1 Sco	Schneider, D.P., Darland, J.J., Leung, K.-C. 1979, AJ, 84, 236
HD 151910	
V919 Sco	
LR Ara	Svechnikov, M.A., Kuznetsova, E.F. 1990, Katalog Priblizhennykh Fotometricheskikh i Absolyutnykh Elementov Zatmennykh Peremennykh Zvez
RW UMi	
HD 152219	

Name	Photometric solution
V900 Sco	(Moffat, A.F.J. 1977, IBVS 1265)
HD 152218	
HD 152248	Luna, H.G. 1988, AAp Suppl., 74, 427
CoD -41°11038	
HR 6265	St.-Louis, N., et al. 1987, ApJ, 322, 870
CoD -41°11042	
eps UMi	Hinderer, F. 1958, AN, 284, 1
HD 152333	
TT Her	Milano, L., Barone, F., Mancuso, S., Russo, G., Vittone, A.A. 1989, AAp, 210, 181
HD 152590	
V644 Her	
V861 Sco	Howarth, I.D. 1983, MN, 203, 1021; Luna, H.G. 1988, AAp Suppl., 74, 427
V829 Her	Robb, R.M. 1989, IBVS 3346
HD 153720	
V883 Sco	Svechnikov, M.A., Kuznetsova, E.F. 1990, Katalog Priblizhennykh Fotometricheskikh i Absolyutnykh Elementov Zatmennykh Peremennykh Zvez
AI Dra	Mezzetti, M., et al. 1980, AAp Suppl., 39, 265
V841 Oph	
eps Her	
HD 153847	
V598 Sco	

Name	M1	M2	A	R1	R2	T1	T2	log L1	log L2	Distance	U	V	W
the Dra	1.29 s									18.4 spi			
Z Nor													
HD 144359													
bet1 Sco	13.77 s									144. s			
HR 5992													
HD 144515a	0.91 s									41.7 pi			
X1603+260													
TW CrB													
nu Sco	6.92 s	1.09 pi								70.8 spi			
HD 145519													
13 Sco	9.77 s	1.70 pi								264. s			
V893 Sco	0.71 p	0.28 p								119. p			
TZ CrB													
IT Nor													
RR TrA													
HP Nor	0.68 w	0.57 p								668. p			
V818 Sco													
sig Sco	12.02 s	21.88 s								182. s			
V1022 Oph													
U Sco													
gam Her													
GX Nor													
PSR 1620-26										2090. g			
W UMi	2.00 s	1.01								349. phi			
IK Nor	0.71 p	0.28 p								322. p			
V760 Sco	4.97	4.61								280. phi			
21 Her	2.09 s	0.25 pi								81.3 s			
V699 Oph	0.71 p	0.28 p								422. p			
zet TrA	1.07 s	0.110 pi								11.7 spi			
eps Nor	5.99 s	5.52 s								167. s			
chi Oph													
ups Oph	1.86 s	1.58								46.3 s			
V2060 Oph													
bet Her													
V592 Her													

Name	M1	M2	A	R1	R2	T1	T2	log L1	log L2	Distance	U	V	W
32 Her	1.45 s	0.91 pi											
V918 Sco	47.86	28.43 s								1100. g			
HR 6169	2.66 s	1.64 s								160. s			
V2133 Oph													
V600 Her	20.65 s	1.88 pi								1980. s			
V349 Ara													
V954 Sco	10.96 s	10.96 s								700. phi			
R Ara													
V544 Her													
HD 149834													
CoD -48°11060													
HR 6187													
CoD -48°11071													
CoD -48°11077													
CoD -48°11088													
V502 Oph	1.32	0.49											
39 Her	1.58 s	1.42								82.2 s			
V651 Ara													
PSR 1639+36B										7100. g			
V653 Ara													
V659 Ara													
AH Her	1.07	0.85 p								270. k			
V687 Ara													
AC Sco													
BD +86°252	0.71 p	0.28 p								64.1 p			
HD 151564	24.83 s	6.17 pi								1790. s			
V1010 Oph	1.68	0.75											
IY Aps													
V610 Ara													
mu1 Sco	10.91	6.04								166. phi			
HD 151910	12.88 s	9.93 pi								4340. s			
V919 Sco										2000. g			
LR Ara													
RW UMi													
HD 152219	27.86 s	12.14 pi								2070. s			

Name	M1	M2	A	R1	R2	T1	T2	log L1	log L2	Distance	U	V	W
V900 Sco													
HD 152218	28.18 s	22.46											
HD 152248	23.76	22.03								2010. s			
CoD -41°1103	21.88 s	8.03 pi								2070. s			
HR 6265	5.00	13.93								1440. s			
CoD -41°1104	28.18 s	18.18 pi								2000. g			
eps UMi										2260. s			
HD 152333	19.28 s	14.50 pi											
TT Her	1.55	0.68								2980. s			
HD 152590	34.28 s	10.68 pi								441. phi			
V644 Her										2940. s			
V861 Sco	18.61	6.29											
V829 Her													
HD 153720	1.45 s	1.44 s											
V883 Sco										74.0 s			
AI Dra	2.68	1.15											
V841 Oph													
eps Her	2.24 s	1.41								898. t			
HD 153847										53.7 s			
V598 Sco	0.71 p	0.28 p								582. p			

Name	Notes
the Dra	
Z Nor	
HD 144359	
bet1 Sco	del m=1.25; U=732y; Ang. diam. 1=0.000427"+/-0.000030", Ang. diam. 2=0.000264"+/-0.000030" (Elliot, J.L., Rages, K., Veverka, J. 19
HR 5992	
HD 144515a	*Pphtm=4.999d
X1603+260	
TW CrB	
nu Sco	
HD 145519	
13 Sco	
V893 Sco	UG:
TZ CrB	del m=0.21; RS CVn (0.05V); *Pphtm~~Porb; Vis. orb: P=1000.0y, T=1828.0, a=6.599", e=0.78, i=33.33°, ome=84.35°, Ome=7.74° (Ra
IT Nor	
RR TrA	
HP Nor	UGZ
V818 Sco	
sig Sco	betC (2.94-3.06B)
V1022 Oph	
U Sco	
gam Her	
GX Nor	
PSR 1620-26	DM=62.87
W UMi	del m=3.2V
IK Nor	UG
V760 Sco	U=40y
21 Her	gamC (del B=0.07); *Prot=Porb
V699 Oph	UG
zet TrA	
eps Nor	
chi Oph	gamC 4.18-5.0 V; Non-radial pulsator, P=13.774d, not binary (Cuypers, J., Balona, L.A., Marang, F. 1989, AAp Suppl., 81, 151)
ups Oph	del m=0.54
V2060 Oph	
bet Her	Vis orb: a=0.0621", Ome=9.2°; ang diam (compt 1)=0.0031"
V592 Her	UG? or XND?

Name	Notes
32 Her	
V918 Sco	
HR 6169	del m=0.70
V2133 Oph	BY
V600 Her	betC (7.00-7.03V)
V349 Ara	Alternative lc soln: i=78, r1=0.27, r2=0.27, l1=0.5, q=1.0; A5V+(A6V), i=72.7, r1=0.243, r2=0.232, l1=0.551 (lc: Schöffel, E., Köhler,
V954 Sco	
R Ara	*l3=0.4931 V
V544 Her	
HD 149834	EB
CoD -48°11060	
HR 6187	
CoD -48°11071	
CoD -48°11077	
CoD -48°11088	
V502 Oph	del m=0.75
39 Her	del m=0.40
V651 Ara	
PSR 1639+36	DM=29.5
V653 Ara	[K2V]+[K4V], i=77.8, r1=0.394, r2=0.359, l1=0.648 p (lc: Gessner, H. 1975, Veröff. Sternw. Sonneberg, 8, No. 5)
V659 Ara	
AH Her	Twd<40000K
V687 Ara	Type RRc possible
AC Sco	VY?
BD +86°252	UG:
HD 151564	
V1010 Oph	del m=3.2y; T1=7500+/-500K, T2=5200+/-500K
IY Aps	
V610 Ara	
mu1 Sco	del m=0.4; U=-133y
HD 151910	
V919 Sco	Not binary (Hill, G., Crawford, D.L., Barnes, J.V. 1974, AJ, 79, 1271; Seggewiss, W. 1974, PASP, 86, 670; Seggewiss, W., Moffat, A.F.J. 1
LR Ara	B2(V)+(B2V), i=85.6, l1=0.500 p (lc: Hoffmeister, C. 1943, Kleine Veröff. Berlin-Babelsberg, No. 27)
RW UMi	
HD 152219	

Name	Notes
V900 Sco	Ell: (del V=0.05, del (B-V)=0.11, del (U-B)=0.11)
HD 152218	
HD 152248	E: (del V=0.36); Ome=97° or 7°
CoD -41°11038	
HR 6265	
CoD -41°11042	
eps UMi	del m=3.44
HD 152333	
TT Her	(B-V)I= +0.33
HD 152590	
V644 Her	del Sct (6.32-6.36 V)
V861 Sco	(B-V)I= +0.08; Ome=108° or 18°
V829 Her	
HD 153720	
V883 Sco	B2.5Vn+(B3V), i=69.7, r1=0.358, r2=0.327, l1=0.600V (lc: Strohmeier, W., Knigge, R. 1973, Veröff. Bamberg, 10, Nr. 106)
AI Dra	del m=2.4; (B-V)I=-0.16
V841 Oph	NB
eps Her	del m=1.50
HD 153847	[Fe/H]=-0.6
V598 Sco	UG

Name	RA(1950)	μ(RA)	Dec(1950)	μ(Dec)	Pos Ref	FK4	SRS	AGK3	SAO	GC	l	b
V884 Sco	17 00 32.697	0.00	-37 46 28.76	+1.1	SAO				208356	22996	347.75	+02.17
V2213 Oph	17 02 43.918	-0.03	+00 46 28.23	-32.8	Per70		13986	+0°2042	122056	23050	020.77	+23.78
V616 Ara	17 03 19.261	+0.06	-46 56 13.25	-0.3	SAO				227631		340.80	-03.81
FQ Sco	17 04 51.		-32 37 42.		GCVS						352.39	+04.60
V2051 Oph	17 05 14.00		-25 44 38.2		W83						358.02	+08.62
V2101 Oph	17 06 31.		-27 14 54.		GCVS						356.95	+07.50
HD 155099	17 08 38.891	-0.78	-58 32 11.20	-9.6	SAO				244518	23183	331.82	-11.31
V829 Ara	17 09 59.427	-0.13	-56 49 49.71	+0.4	SAO				244539	23217	333.35	-10.48
V795 Her	17 11 05.73		+33 34 48.5		McN86						056.66	+34.12
AK Her	17 11 43.180	+0.17	+16 24 27.89	-5.8	AGK3			+16°1661	102668		037.51	+28.74
NSV 08383	17 12 01.35		-65 29 42.6		L85						326.11	-15.51
V824 Ara	17 12 18.174	-0.19	-66 53 40.35	-13.4	SAO				253856	23275	324.90	-16.30
V2215 Oph	17 13 08.682	-3.59	-26 28 33.11	-112.4	SAO				185213	23298	358.45	+06.75
U Oph	17 13 59.357	-0.024	+01 15 53.07	-1.23	FK4	1453	31453	+1°1952	122226	23317	022.73	+21.57
u Her	17 15 28.612	-0.01	+33 09 10.07	-1.0	Per70		43661	+33°1520	065913	23359	056.40	+33.14
V474 Sco	17 15 37.39		-31 31 53.6								354.63	+03.39
V728 Her	17 16 29.521		+41 53 46.13		AC						066.80	+34.53
V825 Her	17 17 00.9		+41 18 55.		PG						066.12	+34.36
DW Aps	17 18 14.145	+0.01	-67 52 52.54	-0.2	SAO				253891		324.34	-17.30
the Oph	17 18 56.157	-0.020	-24 57 05.20	-2.12	FK4	644	30644		185320	23451	000.46	+06.55
V819 Her	17 20 05.060	+0.18	+40 01 22.05	-7.0	AGK3			+40°1587	046664	23487	064.69	+33.58
HD 158013	17 22 30.540	+0.01	+57 03 22.66	+2.4	AGK3			+57°1108	030366	23564	085.25	+34.34
V478 Sco	17 22 38.		-35 29 36.		GCVS						352.20	-00.06
HR 6497	17 23 54.053	-0.040	+07 38 17.03	+0.53	FK4Sup	3385	43700	+7°2194	122381	23614	030.06	+22.36
HR 6493	17 23 58.550	-0.642	-05 02 38.50	-4.46	FK4	647	30647		141665	23617	018.26	+16.27
HR 6502	17 24 39.539	+0.047	+20 07 19.95	+1.73	FK4Sup	3388	43705	+20°1755	085095	23641	042.71	+27.27
HR 6506	17 24 58.263	-0.208	+34 44 11.51	+4.46	FK4Sup	3389	43706	+34°1582	066054	23647	058.77	+31.59
V499 Sco	17 25 45.613	+0.02	-32 57 54.91	-2.1	SAO				208865	23671	354.66	+00.81
HD 158320	17 26 47.627	-0.08	-33 40 41.68	-1.1	SAO				208881	23682	354.19	+00.24
AT Ara	17 26 51.		-46 03 36.		GCVS						343.86	-06.62
MM Sco	17 27 12.		-42 08 54.		GCVS						347.17	-04.51
V700 Sco	17 27 58.98		-31 20 30.8		AC						356.27	+01.32
V442 Oph	17 29 21.95		-16 13 15.1		W83						009.18	+09.31
HR 6532	17 29 55.112	-0.11	+11 57 53.52	+0.6	AGK3			+11°1912	102897	23757	034.98	+22.90
lam Sco	17 30 12.626	+0.013	-37 04 09.63	-2.88	FK4	652	30652		208954	23769	351.74	-02.21

Name	RA(1950)	μ(RA)	Dec(1950)	μ(Dec)	Pos Ref	FK4	SRS	AGK3	SAO	GC	l	b
FV Ara	17 30 19.		-63 00 42.		GCVS						329.38	-15.93
V701 Sco	17 31 08.431	-0.04	-32 28 17.54	-1.2	SAO				208972		355.69	+00.15
HR 6535	17 31 26.314	+0.04	-32 32 56.46	-1.0	Per70		43719		208977	23804	355.67	+00.05
alp OphB	17 32 36.697	+0.804	+12 35 41.94	-22.72	(FK4)	656	30656		102932	23837	035.90	+22.57
CoD -33°1225	17 33 34.99		-34 00 49.0		AC						354.68	-01.12
V535 Ara	17 33 50.722	-0.70	-56 47 28.93	-3.3	SAO				244895	23860	335.18	-13.21
WR 98	17 33 56.0		-33 26 08.		LS						355.21	-00.87
BF Ara	17 34 35.87		-47 08 58.6		L85						343.63	-08.30
xi Ser	17 34 43.274	-0.310	-15 22 07.81	-6.09	FK4	658	30658		160700	23881	010.61	+08.66
HD 160861	17 36 56.075	+0.16	+68 24 36.07	+9.2	AGK3			+68°0734	017570		098.65	+31.93
ome Dra	17 37 14.348	-0.017	+68 46 52.48	+32.24	FK4	664		+68°0736	017576	23944	099.08	+31.87
SZ Her	17 37 46.12		+32 58 18.2		PI77						057.56	+28.57
iot Her	17 38 03.064	-0.096	+46 01 55.28	+0.41	FK4	663		+46°1288	046872	23965	072.32	+31.27
omi Ser	17 38 36.137	-0.506	-12 51 01.22	-6.07	FK4Sup	3405	43748		160747	23978	013.28	+09.17
V743 Sgr	17 40 46.		-28 27 24.		GCVS						000.20	+00.56
V624 Her	17 42 00.614	+0.14	+14 25 48.97	+2.2	AGK3			+14°1782	103069	24075	038.72	+21.25
V620 Ara	17 43 00.106	-0.06	-56 04 52.87	-3.4	SAO				245020		336.46	-13.96
HD 161572	17 43 29.945	+0.03	+05 42 47.12	-0.7	AGK3			+5°2324	122716	24107	030.56	+17.15
HD 161603	17 43 43.758	-0.01	+05 40 35.84	-0.2	AGK3			+5°2326	122725	24114	030.55	+17.08
HD 161698	17 44 19.434	+0.03	+05 34 57.41	-0.7	AGK3			+5°2332	122738	24132	030.53	+16.91
V885 Sco	17 44 33.75		-37 37 23.5								352.80	-04.92
HD 161733	17 44 35.061	+0.07	+05 42 33.23	-0.1	AGK3			+5°2334	122742	24143	030.68	+16.91
PSR 1744-24A	17 44 57.70		-24 45 38.1								003.84	+01.69
V3894 Sgr	17 45 20.106	-0.01	-26 57 32.15	-1.8	Per70		43769		185779	24160	002.00	+00.48
HR 6641	17 45 47.382	-0.06	+47 37 42.95	-0.7	AGK3			+47°1270	046954	24173	074.39	+30.19
HD 162028	17 46 16.265	+0.04	+05 42 59.48	-0.1	AGK3			+5°2340	122776	24185	030.89	+16.54
V539 Ara	17 46 24.124	-0.19	-53 35 53.52	-0.9	Per70		43773		245065	24187	338.94	-13.20
V759 Sgr	17 47 11.		-27 24 06.		GCVS						001.83	-00.09
V380 Oph	17 47 46.91		+06 06 17.5		McN86						031.43	+16.38
HR 6652	17 49 35.252	+0.13	-35 00 29.22	+0.7	SAO				209401	24277	355.57	-04.45
V959 Sco	17 50 02.726	-0.17	-35 00 23.38	+1.3	SAO				209413	24293	355.62	-04.53
HD 162630	17 50 09.20		-34 40 54.6								355.91	-04.38
HD 162656	17 50 16.89		-34 43 36.3								355.89	-04.43
HD 162679	17 50 24.00		-34 47 04.8								355.87	-04.46
V906 Sco	17 50 34.637	+0.15	-34 44 35.62	-0.7	Per70		43789		209428	24314	355.90	-04.49

Name	RA(1950)	μ(RA)	Dec(1950)	μ(Dec)	Pos Ref	FK4	SRS	AGK3	SAO	GC	l	b
HD 162780	17 50 54.378	+0.13	-34 43 06.20	-0.1	SAO				209436	24324	355.96	-04.54
V779 Sgr	17 52 27.28		-28 17 31.3		AC						001.67	-01.56
V453 Sco	17 52 59.793	+0.128	-32 28 06.35	+0.44	FK4Sup	3424	43795		209489	24371	358.13	-03.77
V566 Oph	17 54 24.291	+0.19	+04 59 30.82	+8.0	AGK3			+4°2223	122946	24407	031.17	+14.41
V1647 Sgr	17 55 49.486	+0.25	-36 56 08.06	-0.6	SAO				209552	24449	354.53	-06.51
Z Her	17 55 51.349	-0.22	+15 08 31.12	+8.1	AGK3			+15°1824	103254	24450	040.87	+18.50
V1723 Sgr	17 55 53.		-27 29 00.		GCVS						002.75	-01.80
V508 Oph	17 56 31.03		+13 29 59.8		AC						039.38	+17.67
V735 Sgr	17 56 40.		-29 33 42.		GCVS						001.04	-02.98
V1944 Sgr	17 56 42.73		-27 17 39.1		AC						003.02	-01.88
V394 CrA	17 56 58.18		-39 00 29.3								352.82	-07.72
V551 Sgr	17 57 36.		-34 35 30.		GCVS						356.75	-05.66
V4072 Sgr	17 58 26.412	+0.01	-32 42 54.63	+3.2	SAO				209609		358.48	-04.89
HD 164898	17 59 41.017	+0.05	+45 21 00.49	+1.8	AGK3			+45°1405	047139	24549	072.33	+27.43

Name	Bayer	Flmstd	HR	HD	BD	CoD	CPD	Var	Other
V884 Sco				153919		-37°11206	-37°06877	V884 Sco	LSS 3899; NGC 6281-2; X1700-377 (H, 2S,
V2213 Oph			6349	154417	+0°3629			V2213 Oph	81G Oph; Gl 654.1
V616 Ara				154339		-46°11218	-46°08391	V616 Ara	BV 1215; LSS 3917
FQ Sco								FQ Sco	HV 4389
V2051 Oph								V2051 Oph	
V2101 Oph								V2101 Oph	BV 1694; CSV 2979; HV 3941; P 1199
HD 155099				155099		-58°06699	-58°07014		
V829 Ara			6384	155341		-56°06744	-56°08098	V829 Ara	39G Ara
V795 Her								V795 Her	PG 1711+336; SVS 2613
AK Her				155937	+16°3130			AK Her	33.1917; HV 3428
NSV 08383									CSV 7612; NSV 08383; vH 3
V824 Ara				155555		-66°02071	-66°03080	V824 Ara	INCA 1185
V2215 Oph		(30 Sco)		156026		-26°12036	-26°05863	V2215 Oph	Gl 664; INCA 2666
U Oph			6414	156247	+1°3408			U Oph	110G Oph
u Her	u Her	68 Her	6431	156633	+33°2864			u Her	29H Her
V474 Sco						-31°13830	-31°04650	V474 Sco	HV 7889; LSS 4070
V728 Her								V728 Her	SVS 2086
V825 Her								V825 Her	PG 1717+413
DW Aps				156545		-67°02082	-67°03312	DW Aps	BV 418
the Oph	the Oph	42 Oph	6453	157056		-24°13292	-24°05876	the Oph	24H Oph; 126G Oph
V819 Her			6469	157482	+40°3136			V819 Her	
HD 158013				158013	+57°1758				
V478 Sco								V478 Sco	HV 7898
HR 6497			6497	157978	+7°3368				142G Oph
HR 6493			6493	157950	-4°4275				27H Oph; 141G Oph; CSV 101654; NSV 086
HR 6502			6502	158148	+20°3481				
HR 6506			6506	158261	+34°2971				
V499 Sco				158155		-32°12786	-32°04551	V499 Sco	LSS 4181
HD 158320				158320		-33°12117	-33°04421		151G Sco; LSS 4187
AT Ara								AT Ara	HV 6551
MM Sco								MM Sco	HV 6553
V700 Sco				317690		-31°14152	-31°04771	V700 Sco	LSS 4193
V442 Oph								V442 Oph	SVS 337
HR 6532	(h Her)	(29 Her)	6532	159082	+12°3241				
lam Sco	lam Sco	35 Sco	6527	158926		-37°11673	-37°07265	lam Sco	Shaula; 156G Sco

Name	Bayer	Flmstd	HR	HD	BD	CoD	CPD	Var	Other
FV Ara								FV Ara	523.1933; HV 6770; P 1255
V701 Sco				317844		-32°12924	-32°04606	V701 Sco	
HR 6535			6535	159176		-32°12935	-32°04616		157G Sco; CSV 101659; LSS 4225; NGC 638
alp OphB	alp Oph B	55 Oph B	6556 B	159561 B	+12°3252				Rasalhague B; 30H Oph B; CSV 101662; Gl 6
CoD -33°12259				320102		-33°12259	-33°04477		He 3-1439; LSS 4275; MR 75; WR 97
V535 Ara				159441		-56°06944	-56°08348	V535 Ara	BV 419; CSV 7681; S 7643
WR 98				318016					He 3-1441; LSS 4282; MR 76; WR 98
BF Ara								BF Ara	HV 6576
xi Ser	xi Ser	55 Ser	6561	159876	-15°4621				17H Ser; 8G SerCd; IRC -20373; NSV 09270
HD 160861				160861	+68°0947				
ome Dra	ome Dra	28 Dra	6596	160922	+68°0949				25H Dra; X1737+687 (MS)
SZ Her					+33°2930			SZ Her	174.1908
iot Her	iot Her	85 Her	6588	160762	+46°2349			iot Her	37H Her; CSV 101670; NSV 09501; Zi 1339
omi Ser	omi Ser	56 Ser	6581	160613	-12°4808			omi Ser	19H Ser; 11G SerCd
V743 Sgr								V743 Sgr	HV 10263
V624 Her			6611	161321	+14°3329			V624 Her	
V620 Ara				161160		-56°07036	-56°08436	V620 Ara	BV 1161
HD 161572				161572	+5°3482				IC 4665-58
HD 161603				161603	+5°3484				IC 4665-64
HD 161698				161698	+5°3491				IC 4665-76
V885 Sco				161562		-37°11880	-37°07477	V885 Sco	BV 1562
HD 161733				161733	+5°3494				IC 4665-82
PSR 1744-24A									PSR 1744-24A
V3894 Sgr			6621	161756		-26°12367	-26°05987	V3894 Sgr	4G Sgr
HR 6641			6641	162132	+47°2537				
HD 162028				162028	+5°3504				IC 4665-105
V539 Ara	nu1 Ara		6622	161783		-53°07423	-53°08799	V539 Ara	77G Ara; BV 420
V759 Sgr								V759 Sgr	HV 10285
V380 Oph								V380 Oph	159.1929
HR 6652			6652	162515		-34°12187	-34°07244		NGC 6475-42
V959 Sco				162588		-34°12201	-34°07269	V959 Sco	NGC 6475-59
HD 162630				162630		-34°12208	-34°07275		NGC 6475-63
HD 162656				162656		-34°12215	-34°07286		NGC 6475-72
HD 162679				162679		-34°12217	-34°07293		NGC 6475-77
V906 Sco			6662	162724		-34°12226	-34°07306	V906 Sco	CSV 7728; NGC 6475-86

Name	Bayer	Flmstd	HR	HD	BD	CoD	CPD	Var	Other
HD 162780				162780		-34°12237	-34°07325		NGC 6475-104
V779 Sgr				316675				V779 Sgr	HV 10307
V453 Sco				163181		-32°13517	-32°04970	V453 Sco	182G Sco; He 3-1522; HV 7868; MWC 274;
V566 Oph				163611	+5°3547			V566 Oph	80.1935; P 4481
V1647 Sgr				163708		-36°12064	-36°07843	V1647 Sgr	INCA 2712
Z Her				163930	+15°3311			Z Her	INCA 1189
V1723 Sgr								V1723 Sgr	
V508 Oph					+13°3496			V508 Oph	82.1935; P 4492
V735 Sgr								V735 Sgr	900.1936; HV 9175; P 4489
V1944 Sgr								V1944 Sgr	N Sgr 1960; SVS 1397
V394 CrA								V394 CrA	N CrA 1949, 1987; N Sco 1949
V551 Sgr								V551 Sgr	HV 7095
V4072 Sgr				164270		-32°13623	-32°05041	V4072 Sgr	He 3-1555; MR 79; WR 103
HD 164898				164898	+45°2643				

Name	Sp1	Sp2	T-JD 2400000	P	e	ome1	V0	K1	K2	v1 sin i	v2 sin i
V884 Sco	O5.5-O6.5Iaf	(XPSR)	46160.705	3.411652	0.16	5	-74.80	19.04		140	
V2213 Oph	F8.5IV-V			~8.						<=6.	
V616 Ara	B3II-III	(B4)	28716.400	4.99525							
FQ Sco				(0.333:)							
V2051 Oph	sdBe	(M5.5V)	44043.68019	0.062427887	0	-	-21.	111		733 Wi; 400 e	
V2101 Oph				[0.108]							
HD 155099	F4IV-V	[M4V]	34123.97	2.883145	0.110	114.4	-1.91	28.77			
V829 Ara	M1-2II-III	A	46142.	80.							
V795 Her			47329.824	0.1082648	0	-	-	70			
AK Her	F8V	(G5V)	42186.460	0.42152201	0	-	-	63	262		
NSV 08383				[0.108]							
V824 Ara	G5IV	K0V-IV	46998.8306	1.681652	0	-	+2.74	85.20	91.56	37	29*
V2215 Oph	K5Ve		21.:							2.3	
U Oph	B5Vnn	B5V	44416.3864	1.67734617	0	-	-7.4	182.	197	105	92
u Her	B1.5Vp	B5III	37801.92	2.0510270	0.0	-	-17.1	98.0	263	136	88
V474 Sco	B3-5	(B6.5)	26472.510	1.62004							
V728 Her	(F3-4V)		46949.8351	0.4712849							
V825 Her	sdBe			0.206			+177.				
DW Aps	B6III	(F2)	39209.502	2.312950							
the Oph	B2IV	(B4V)	35585.95	11.44	0	-	-1.5	5.25		35	
V819 Her	F7V	(G5V)	45839.813	2.229876	0	-	-7.4	(2.7)		12.*	
HD 158013	A2m		31979.003	8.2159	0.333	132.1	-8.427	33.931			
V478 Sco				(0.283)							
HR 6497	A1V	A1V	32021.449	3.75805	0.00	-	-12.1	110	110		
HR 6493	F2V	F6V	18411.52	26.2765	0.49	14	+0.4	47.5	50.7	26	<8.
HR 6502	B5V		43721.66	8.9560	0.11	-	-28.4	17.1		251	
HR 6506	A0V	[M1V]	23585.527	5.9182	0.031	35.74	-22.73	25.09		10	
V499 Sco	B1V	(B1V)	28340.405	2.3332977							
HD 158320	B0.5Ib	[B8V]	42000.0	38.10	0	-	+4.	15		70	
AT Ara	sdBe	(K0V)		(0.333)	0	-	-40.:	100.-190.	130.-250.		
MM Sco				(0.262)							
V700 Sco	B5	(B8.5)	28066.28	2.34690							
V442 Oph	sdBe			0.14056	0	-	+20.:	157		675 Sh; 502: Wi	
HR 6532	B9.5VpHgMn	[F6V]	22878.50	6.79753	0.068	133	-13.67	48.92		32	
lam Sco	B1.5IV	B		5.6?	-	-				163	

Name	Sp1	Sp2	T-JD 2400000	P	e	ome1	V0	K1	K2	v1 sin i	v2 sin i
FV Ara				[0.108]							
V701 Sco	B1V:nn	B1(V)	46199.5059	0.76187645	0	-	+7.	288	290	245	245
HR 6535	O6V	O6V	39262.95	3.36679	0.02	334	+10.0	212.8	221.7	161	148
alp OphB				0.96?	0	-	-	~200.			
CoD -33°1225	WN3	O5-7[V]		8.83	0	-	+60.	150	50		
V535 Ara	A8V	(A9V)	39292.9351	0.62930098	0	-	-17.6	71.1	236.9		
WR 98	WN7/WC7		45270.0	48.7	0	-	+25.:	70			
BF Ara				(0.204)							
xi Ser	F0IVdelSct	[M4V]	19210.764	2.292285	0.0	-	-42.77	19.35		32	
HD 160861	F5[V]	[M1V]	42280.70	2.5057	0.059	33.6	-15.83	44.99			
ome Dra	F5V	[G5V]	44699.593	5.279799	0	-	-14.1	35.8	45.2	26	
SZ Her	F0V	K0V	41864.30517	0.81809828							
iot Her	B3IV		28718.8	113.804	0.43	201	-20.0	5.4		11	
omi Ser	A2V			1.102?	0	-	-30.0	~20.		125	
V743 Sgr	[G9]	(G7.5)	47656.8517	0.27663567							
V624 Her	A3pSiSr	A7m	40321.0049	3.894977	0.0	-	-38.6	96.6	117.2	35	30
V620 Ara	B9III	(F5)	28686.375	1.554965							
HD 161572	B6V		38931.79	8.1294	0.64	80	-16.8	34.1		200	
HD 161603	B5V		38947.05	43.5	0.76	298	-4.9	27.0		220	
HD 161698	B8.5VpHgMn		39250.45	7.2527	0.77	352	-5.3	37.0		80	
V885 Sco	B2V	(B4.5)	28786.300	3.119975							
HD 161733	B6VpHgMn		39227.57	1.80519	0.40	21	-13.9	22.8		40	
PSR 1744-24A	(PSR)		47980.824259	0.0756461156	<0.006	-	-	34.487			
V3894 Sgr	B4IVe	(B4IV)	44569.775	2.61862	0	-	+2.1	(36.3)			
HR 6641	A2Vs	[G3V]	22138.259	2.82424	0.0	-	-27.1	60.2			
HD 162028	B6V		48049.81	6.2013	0.207	278	-12.7	78.5	80.9	30	10
V539 Ara	B3V	B4V	39314.488	3.169140	0.056	108.5	-4.3	150.4	176.6	91	119
V759 Sgr				[0.182]							
V380 Oph	sdBe		45464.928	0.16	0	-	-83.	100		541 Sh	
HR 6652	B9.5V	[F4V]	42995.503	6.6768	0.0	-	-12.3	53.4	91.5	95	
V959 Sco	B9.5VpSi		39693.561	6.1411	0.55	130	-12.0	15.6		30.*	
HD 162630	B9.5Vp(wkCa)		39690.215	9.499	0.64	11	-9.3var	10.3		<=40.	
HD 162656	B9.5VpSi(wkCa)		42983.61	5.45211	0.45	210	-14.9	33.0		<=40.	
HD 162679	B9V	[M5V]	39698.524	3.051	0.00	-	-8.8	8.5		<=40.	
V906 Sco	B9V	B9V	39649.8190	2.785847	0	-	-38.	119	143	95	50

Name	Sp1	Sp2	T-JD 2400000	P	e	omeI	V0	K1	K2	v1 sin i	v2 sin i
HD 162780	B9.5V		39698.675	6.6226	0.54	261	-16.0	13.2		295	
V779 Sgr	F8V	(F9)	28640.4664	0.4450342							
V453 Sco	BN0.5Iae	B1e	42217.19	12.00597	0.08	36.5	-42.3	192.2	110	234	
V566 Oph	F4V	F4V	46645.9290	0.4096454	0	-	-38.5	72.6	272.9		
V1647 Sgr	A1V	A2V	43073.4560	3.2827992	0.413	205.9	-16.8	119.8	133.0	80	70
Z Her	F5IV-V	K0IV	13086.3345	3.9928077	0	-	-45.	85.5	105		*
V1723 Sgr	[G8]	(G6)	29479.4222	0.29545329							
V508 Oph	G0V	G2V	45082.5430	0.344792129	0.0	-	-38.6	119.1	229.2		
V735 Sgr	F8IV-V										
V1944 Sgr	sdBe			[0.18]							
V394 CrA				0.7577							
V551 Sgr				[0.224]							
V4072 Sgr	WC9	[G9V]	42858.51	1.7556	0	-	+47.	20			
HD 164898	A1V		31655.648	2.91694	0.0221	11.50	-14.93	65.18			

Name	Spectroscopic orbit
V884 Sco	Hammerschlag-Hensberge, G. 1978, AAp, 64, 399
V2213 Oph	
V616 Ara	
FQ Sco	
V2051 Oph	Watts, D.J., Bailey, J., Hill, P.W., Greenhill, J.G., McCowage, C., Carty, T. 1986, AAp, 154, 197
V2101 Oph	
HD 155099	Evans, D.S., et al. 1967, R. Obs. Bull., No. 130
V829 Ara	
V795 Her	Shafter, A.W., Robinson, E.L., Crampton, D., Warner, B., Prestage, R.M. 1990, ApJ, 354, 708
AK Her	Hrivnak, B.J. 1986, private communication
NSV 08383	
V824 Ara	Pasquini, L., Cutispoto, G., Gratton, R., Mayor, M. 1991, AAp, 248, 72
V2215 Oph	
U Oph	Holmgren, D.E., Hill, G., Fisher, W. 1991, AAp, 248, 129
u Her	Hilditch, R.W. 1984, MN, 211, 943; Kovachev, B.J., Seggewiss, W. 1975, AAp Suppl., 19, 395
V474 Sco	
V728 Her	
V825 Her	
DW Aps	
the Oph	van Hoof, A. 1967, IAU Symp. 30, p. 237
V819 Her	(Plaskett, J.S., Harper, W.E., Young, R.K. 1922, Pub DAO, 1, 163; Harper, W.E. 1934, Pub. DAO, 6, 151)
HD 158013	Norris, D.K. 1949, Pub. DDO, 1, 502
V478 Sco	
HR 6497	McLaughlin, D.B. 1962, AJ, 67, 117
HR 6493	Abt, H.A., Levy, S.G. 1976, ApJ Suppl., 30, 273
HR 6502	Abt, H.A., Gomez, A.E., Levy, S.G. 1990, ApJ Suppl., 74, 551
HR 6506	Christie, W.H. 1925, Pub. DAO, 3, 307
V499 Sco	
HD 158320	Penny, A.J., et al. 1975, MN, 171, 387
AT Ara	Wargau, W., Vogt, N. 1982, Mitt. AG, 55, 77
MM Sco	
V700 Sco	
V442 Oph	Szkody, P., Shafter, A.W. 1983, PASP, 95, 509
HR 6532	Stickland, D.J., Weatherby, J. 1984, AAp Suppl., 57, 55
lam Sco	

Name	Spectroscopic orbit
FV Ara	
V701 Sco	Bell, S.A., Malcolm, G.J. 1987, MN, 226, 899
HR 6535	Lloyd Evans, T. 1979, MN, 186, 13
alp OphB	Wagman, N.E. 1963, AJ, 68, 619
CoD -33°1225	Niemela, V.S. 1982, IAU Symp. 99, p. 299
V535 Ara	Schöffel, E. 1979, AAp Suppl., 36, 287
WR 98	Niemela, V.S. 1991, IAU Symp. 143, 201
BF Ara	
xi Ser	Young, R.K. 1911, Lick Obs. Bull., 6, 160
HD 160861	Carquillat, J.M., Pédoussaut, A., Ginestet, N., Nadal, R. 1976, AAp Suppl., 23, 277
ome Dra	Mayor, M., Mazeh, T. 1987, Astr. Ap., 171, 157
SZ Her	
iot Her	Abt, H.A., Levy, S.G. 1978, ApJ Suppl., 36, 241
omi Ser	Woolley, R., Penston, M.J., Harding, G.A., Martin, W.L., Sinclair, J.E., Haslam, C.M., Aslan, S., Savage, A., Aly, K., Asaad, A.S. 1981, R.
V743 Sgr	
V624 Her	Popper, D.M. 1984, AJ, 89, 1057
V620 Ara	
HD 161572	Abt, H.A., Bolton, C.T., Levy, S.G. 1972, ApJ, 171, 259
HD 161603	Abt, H.A., Bolton, C.T., Levy, S.G. 1972, ApJ, 171, 259
HD 161698	Abt, H.A., Bolton, C.T., Levy, S.G. 1972, ApJ, 171, 259
V885 Sco	
HD 161733	Abt, H.A., Bolton, C.T., Levy, S.G. 1972, ApJ, 171, 259
PSR 1744-24A	Nice, D.J., Thorsett, S.E., Taylor, J.H., Fruchter, A.S. 1990, ApJ Lett., 361, L61
V3894 Sgr	(Buscombe, W., Morris, P.M. 1960, MN, 121, 263)
HR 6641	Luyten, W.J. 1936, ApJ, 84, 85
HD 162028	Morrell, N., Abt, H.A. 1991, ApJ, 378, 157
V539 Ara	Andersen, J. 1983, AAp, 118, 255
V759 Sgr	
V380 Oph	Shafter, A.W. 1985, AJ, 90, 643
HR 6652	Gieseking, F. 1977, AAp, 60, 9; (Andersen, J., Nordström, B. 1983, AAp Suppl., 52, 471)
V959 Sco	Abt, H.A., et al. 1970, ApJ, 159, 919
HD 162630	Abt, H.A., et al. 1970, ApJ, 159, 919
HD 162656	Gieseking, F. 1977, AAp, 60, 9
HD 162679	Abt, H.A., et al. 1970, ApJ, 159, 919
V906 Sco	(Abt, H.A., et al. 1970, ApJ, 159, 919)

Name	Spectroscopic orbit
HD 162780	Abt, H.A., et al. 1970, ApJ, 159, 919
V779 Sgr	
V453 Sco	Sahade, J., Friebos-Conde, H. 1965, ApJ, 141, 652; Hutchings, J.B. 1975, PASP, 87, 245
V566 Oph	Hill, G., Fisher, W.A., Holmgren, D. 1989, AAp, 218, 152
V1647 Sgr	Andersen, J., Giménez, A. 1985, AAp, 145, 206
Z Her	Popper, D.M. 1988, AJ, 95, 1242
V1723 Sgr	
V508 Oph	Lu, W. 1986, PASP, 98, 577
V735 Sgr	
V1944 Sgr	
V394 CrA	
V551 Sgr	
V4072 Sgr	Isserstedt, J., Moffat, A.F.J. 1981, AAp, 96, 133
HD 164898	Northcott, R.J. 1952, Pub. DDO, 1, 531

Name	V	B-V	U-B	R-I	E(B-V)	par	Cluster	ADS	Vis Binary	Companions
V884 Sco	6.51	+0.27	-0.72	+0.18	0.53 u		(NGC 6281)			
V2213 Oph	6.01	+0.58	+0.06	+0.31C		0.046				
V616 Ara	8.29	+0.35	-0.41							
FQ Sco	12.0 p				0.17 m					
V2051 Oph	10.2 v				0.00 u					
V2101 Oph	13.2 p				0.16 m					
HD 155099	6.85 D	+0.38			0.00	D0.006			h 4920 A	8.9, 3.0"
V829 Ara	6.15	+1.79	+1.34							
V795 Her	13.20	-0.02			0.03					
AK Her	8.32	+0.51	0.00		0.00			10408 A	Ho 557 A	12.0, 4.7"
NSV 08383	13.5 p				0.14 m					
V824 Ara	6.76	+0.792	+0.30	+0.451C		0.0588			LDS 587 A	13.0v, dMe, 33"
V2215 Oph	6.334	+1.147	+1.066	+0.65	0.179; D	0.045		10417 C	S,h 243 C	5.29,K0V,709"; 5.33,K1V,711"; 8.1,
U Oph	5.88	+0.06	-0.45		0.219	0.002		10428 A	h 854 A	12.26, G0V, 20.7"
u Her	4.82	-0.17	-0.76	-0.19	0.06	0.009		10449 A	OSig 328 A	9.9, 4.4"
V474 Sco	10.3 p									
V728 Her	10.85	+0.41	-0.02							
V825 Her	14.32:	+0.03	-0.86							
DW Aps	8.89	+0.03								
the Oph	3.27	-0.22	-0.86	-0.21	0.00		Cr 302			
V819 Her	5.51	+0.68	+0.21		0.06	0.021			McA 47 (orb)	G5IV (5.53y, Prot=83.2d)
HD 158013	6.55									
V478 Sco	14.0 p				0.06					
HR 6497	6.06	+0.58	+0.28	+0.43					A	B=G0II, unresolved
HR 6493	4.54	+0.39	-0.03	+0.21	0.00	0.032				
HR 6502	5.54	-0.13	-0.56							
HR 6506	5.94	-0.01	-0.06		0.00					
V499 Sco	8.25	+0.40	-0.53		0.62					
HD 158320	6.67	+0.13	-0.76		0.38				Howe 39 A; Ho 646	9.86V, +0.22, -0.56, 4.4"; 11.5v, 14
AT Ara	12.61	+0.08	-0.69		0.00					
MM Sco	13.0 p				0.19 m					
V700 Sco	10.19 B								Rst 1964 A	11.7, 3.1"
V442 Oph	11.92	-0.01	-0.66		0.20 u					
HR 6532	6.45	-0.02	-0.18		0.00					
lam Sco	1.62	-0.22	-0.89	-0.28	0.02				lam 334 A; Del 218	14.9, 41.7"; 12, 34.9"

Name	V	B-V	U-B	R-I	E(B-V)	par	Cluster	ADS	Vis Binary	Companions
FV Ara	12. p				0.09 m					
V701 Sco	8.66	+0.10	-0.70		0.36		NGC 6383			
HR 6535	5.70	+0.04	-0.86		0.37		NGC 6383		h 4962 A; Ho 647 A	10.5, 5.4"
alp OphB	2.08 D	+0.15	+0.10	+0.08		0.069	UMa strm		alp Oph B (orb)	del m=-1, A5III, 0.065", 8.5y
CoD -33°1225	11.13	+0.67	+0.49		1.04					
V535 Ara	7.17	+0.41								
WR 98	12.47	+1.08	+0.63		1.63		Tr 27			
BF Ara	14.24	+0.01	-0.72		0.00					
xi Ser	3.54	+0.26	+0.14	+0.13	0.00	0.030;	Hyades scl		Rst 5090 A	12.9, 22.0"
HD 160861	8.1				0.03 m	-0.012			bet pm A	
ome Dra	4.80	+0.43	-0.01	+0.22	0.00	0.045			Fox A	13.1, 72.3"
SZ Her	9.86									
iot Her	3.80	-0.18	-0.69	-0.17		0.005			bet A	del m=8.3, 16.0"
omi Ser	4.26	+0.08	+0.10	+0.02		0.006				
V743 Sgr	13.8 p									
V624 Her	6.20	+0.21	+0.20	+0.12	0.05			10749 A	h 1303 A	11.9, 39.7"
V620 Ara	9.0 p									
HD 161572	7.59	+0.011	-0.51				IC 4665			
HD 161603	7.36	+0.016	-0.47				IC 4665			
HD 161698	8.21 D	+0.121	-0.32				IC 4665	10783 A	A 1161 A	del m=1.5v, 0.7"
V885 Sco	8.6									
HD 161733	7.99	+0.071	-0.45				IC 4665		Sig 2216 A rej	9.8v, 27.4"
PSR 1744-24A					2.14 g		Ter 5			
V3894 Sgr	6.21	+0.12	-0.42		0.30					
HR 6641	6.43	+0.11	+0.06		0.02				CHARA 64	
HD 162028	7.49	+0.02	-0.41				IC 4665			
V539 Ara	5.66	-0.08	-0.65		0.07				h 4978 A	9.0, 12.3"
V759 Sgr	13.6 p				0.28 m					
V380 Oph	14.5						<IC 4665>			
HR 6652	6.45	+0.02	-0.07				NGC 6475			
V959 Sco	7.19	0.00					<NGC 6475>			
HD 162630	7.61	0.00	-0.16				<NGC 6475>			
HD 162656	8.19	0.00	+0.01				<NGC 6475>			
HD 162679	7.16	-0.03			0.03		NGC 6475			
V906 Sco	5.96	-0.01	-0.10		0.05		NGC 6475		B 1871 A	7.2, 0.3"

Name	V	B-V	U-B	R-I	E(B-V)	par	Cluster	ADS	Vis Binary	Companions
HD 162780	6.88	+0.06	-0.06				<NGC 6475>			
V779 Sgr	11.5 p									
V453 Sco	6.36	+0.52	-0.48		0.73		(NGC 6475)		Jsp 748 A	13.51, F7V, 13.5"
V566 Oph	7.46	+0.44	-0.07		0.00		(Mel 186)			
V1647 Sgr	6.94	+0.04			0.00	0.0049	NGC 6475		h 5000 A	9.13, 8"
Z Her	7.30	+0.59			0.05	0.0117;	Hyades scl			11.3, 7"
V1723 Sgr	13.4 p									
V508 Oph	10.31	+0.69								
V735 Sgr	14.82	+0.91	+0.17		0.12 m					
V1944 Sgr	7: p				0.26 m					
V394 CrA	18.26	+0.94	-0.09							
V551 Sgr	13.5 p				0.10 m					
V4072 Sgr	9.18	+0.12	+0.21		0.48 u		Sgr OB5?			16.5, 12"
HD 164898	7.56	+0.095	+0.065						Sig 3129 A	

Name	Vbl type	Min I	Min II	D	d	i	r1	r2	II	qph
V884 Sco	ELL + X	6.60	6.59			93.	0.59			0.048
V2213 Oph	BY	(0.04)								
V616 Ara	EB/GS	(0.4 p)	deep			83.5	0.315	0.150	0.92 p	0.50
FQ Sco	UGSS	16.68				57.63 pi				
V2051 Oph	UG + EA	15.16		[0.069]		80.03				
V2101 Oph	UG	16.5 p				57.63 pi				
HD 155099						52.75 pi				
V829 Ara	ELL	(0.077)								
V795 Her	NL	13.37 B				57.63 pi				
AK Her	EW/KW	9.32 B	9.20 B		0.000; 0.058	80.81	0.515	0.267	0.8223 V*	(0.2331)
NSV 08383	UG:	> 15.5 p				57.63 pi				
V824 Ara	RS					48.64 s	0.209 ome	0.164 ome	0.690 B s	
V2215 Oph	RS									
U Oph	EA/DM	6.58	6.48	0.16	0.000	88.3	0.262	0.24	0.571 V	
u Her	EA/SD	5.33 B	4.91 B			78.13	0.337	0.293	0.7527 V	
V474 Sco	EB	11.0 p	10.6 p			82.	0.405	0.345	0.76 p	0.730
V728 Her	EW/KW	11.20	11.23			64.75	0.475	0.333	0.658 V	0.440
V825 Her	NL									
DW Aps	EA/SD:	(1.2 p)		0.14		82.5	0.260	0.255	0.94 p	0.24
the Oph	BCEP					3.80 s			0.86 s	
V819 Her	EA/D + BY	5.595	5.56			81.1	0.130	0.101	0.458	
HD 158013										
V478 Sco	UG	15.93				57.63 pi				
HR 6497						56.71 s				
HR 6493	-					61.68 s	0.112 ome	< 0.034 ome	0.63 s	
HR 6502										
HR 6506						54.59 pi				
V499 Sco	EB/DM	(0.51)	(0.47)			83.517	0.378	0.251	0.7135 V	0.3061
HD 158320						53.48 pi				
AT Ara	UGSS	14.90				55.73 s				
MM Sco	UG	16.80				57.63 pi				
V700 Sco	EB:/DM	10.5 B	10.3 B			79.	0.306	0.204	0.86 p	0.580
V442 Oph	NL:									
HR 6532										
Iam Sco	BCEP + E:	(0.04)								

Name	Vbl type	Min I	Min II	D	d	i	r1	r2	II	qph
FV Ara	UG	> 18. p				57.63 pi				
V701 Sco	EW/KE	(0.47 B)	(0.47 B)			65.0	0.448	0.446	0.511 bol	
HR 6535	ELL:					46.6	0.30	0.30		
alp Oph B	-									
CoD -33°12259						28.61 s				
V535 Ara	EW/DW:	7.75	7.71			81.82	0.4999	0.3156	0.717 bol	0.340
WR 98										
BF Ara	UGSS	> 16.0 p				57.63 pi				
xi Ser	DSCT:					51.18 pi				
HD 160861						56.74 pi				
ome Dra						30.88 s	0.32 ome			
SZ Her	EA/SD	11.87		0.18		88.5	0.315	0.299	0.839 y	0.4
iot Her	BCEP									
omi Ser	DSCTC:									
V743 Sgr	EW/KW	(0.76 V)	(0.54 V)			74.	0.485	0.265	0.73 p	0.320
V624 Her	EA/DM	6.38	6.37	0.097	0.000	79.4	0.181	0.132	0.676 V	
V620 Ara	EA/SD:	9.8 p	possibly present			78.5	0.34	0.24	0.96 p	0.20
HD 161572										
HD 161603										
HD 161698										
V885 Sco	E/DM	(0.3)				81.	0.235	0.170	0.80 p	0.6
HD 161733										
PSR 1744-24A				0.38*						
V3894 Sgr	EB/D	6.39	6.37		0.00	57.9	0.459	0.234	0.6367 bol	0.406
HR 6641						59.74 pi				
HD 162028							0.15 ome	0.05 ome		
V539 Ara	EA/DM	6.18	6.09	0.14	0.01	85.07	0.216	0.182	0.624 V*	
V759 Sgr	NL	16.0 p				57.63 pi				
V380 Oph	NL:	> 16.1								
HR 6652							0.66 ome			
V959 Sco	ACV									
HD 162630										
HD 162656										
HD 162679						51.58 pi				
V906 Sco	EA/DM	6.23	6.21	0.13		73.93	0.2730	0.2512	0.5661 y	0.885

Name	Vbl type	Min I	Min II	D	d	i	r1	r2	l1	qph
HD 162780										
V779 Sgr	EW/KW	12.1 p	12.0 p			77.50	0.440	0.300	0.70 p	0.50
V453 Sco	EB/GS	6.73	6.70			73.1	0.330	0.121	0.87 y	
V566 Oph	EW/KW	7.96	7.89		0.048; 0.06	80.32	0.5278	0.2848	0.7879 V	0.23686
V1647 Sgr	EA/DM	7.57	7.43	0.082; 0.059		90.00	0.1226	0.1116		
Z Her	EA/AR/RS	8.16	7.42	0.11		83.1	0.122	0.180	0.728 Y	
V1723 Sgr	EW/KW	13.9 p	13.8 p			73.5	0.42	0.31	0.59 p	0.60
V508 Oph	EW/KW	11.09	10.98			86.13	0.442	0.331	0.668 V	0.530
V735 Sgr	ISB:	16.5 p								
V1944 Sgr	N	15. p				57.63 pi				
V394 CrA	NA									
V551 Sgr	UGSS	20. p				57.63 pi				
V4072 Sgr	ELL/WR + Uniq	9.9				55.97 pi				
HD 164898										

Name	Photometric solution
V884 Sco	Hutchings, J.B. 1978, ApJ, 226, 264; Dolan, J.F., Tapia, S. 1988, AAp, 202, 124
V2213 Oph	
V616 Ara	Svechnikov, M.A., Kuznetsova, E.F. 1990, Katalog Priblizhennykh Fotometricheskikh i Absolyutnykh Elementov Zatmennykh Peremennykh Zvez
FQ Sco	
V2051 Oph	(Watts, D.J., Bailey, J., Hill, P.W., Greenhill, J.G., McCowage, C., Carty, T. 1986, AAp, 154. 197)
V2101 Oph	
HD 155099	
V829 Ara	(Walker, W.S.G., Marino, B.F., Herdman, G. 1985, IBVS 2775)
V795 Her	
AK Her	Lucy, L.B., Wilson, R.E. 1979, ApJ, 231, 502
NSV 08383	
V824 Ara	
V2215 Oph	
U Oph	Holmgren, D.E., Hill, G., Fisher, W. 1991, AAp, 248, 129
u Her	Van der Veen, W.E.C.J. 1985, Astr. Ap., 145, 380
V474 Sco	Svechnikov, M.A., Kuznetsova, E.F. 1990, Katalog Priblizhennykh Fotometricheskikh i Absolyutnykh Elementov Zatmennykh Peremennykh Zvez
V728 Her	Samec, R.G. 1990, PASP, 102, 994
V825 Her	
DW Aps	Svechnikov, M.A., Kuznetsova, E.F. 1990, Katalog Priblizhennykh Fotometricheskikh i Absolyutnykh Elementov Zatmennykh Peremennykh Zvez
the Oph	
V819 Her	(Boyd, L.J., Genet, R.M., Hall, D.S., Persinger, W.T., Fried, R.E., Wasson, N.F., Stelzer, H.J., Lines, R.D., Brooks, P.A., Hoff, D. 1985, IB
HD 158013	
V478 Sco	
HR 6497	
HR 6493	
HR 6502	
HR 6506	
V499 Sco	Wilson, R.E., Rafert, J.B. 1981, ApSpSci, 76, 23
HD 158320	
AT Ara	
MM Sco	
V700 Sco	Svechnikov, M.A., Kuznetsova, E.F. 1990, Katalog Priblizhennykh Fotometricheskikh i Absolyutnykh Elementov Zatmennykh Peremennykh Zvez
V442 Oph	
HR 6532	
lam Sco	(Shobbrook, R.R., Lomb, N.R. 1972, MN, 156, 181)

Name	Photometric solution
FV Ara	
V701 Sco	Bell, S.A., Malcolm, G.J. 1987, MN, 226, 899
HR 6535	Thomas, J.C. 1975, BAAS, 7, 533
alp OphB	
CoD -33°12259	
V535 Ara	Eaton, J.A. 1991, ApSpSci, 186, 7
WR 98	
BF Ara	
xi Ser	
HD 160861	
ome Dra	
SZ Her	Giuricin, G., Mardirossian, F. 1981, AAp Suppl., 45, 85
iot Her	
omi Ser	
V743 Sgr	Svechnikov, M.A., Kuznetsova, E.F. 1990, Katalog Priblizhennykh Fotometricheskikh i Absolyutnykh Elementov Zatmennykh Peremennykh Zvez
V624 Her	Popper, D.M. 1984, AJ, 89, 1057
V620 Ara	Svechnikov, M.A., Kuznetsova, E.F. 1990, Katalog Priblizhennykh Fotometricheskikh i Absolyutnykh Elementov Zatmennykh Peremennykh Zvez
HD 161572	
HD 161603	
HD 161698	
V885 Sco	Svechnikov, M.A., Kuznetsova, E.F. 1990, Katalog Priblizhennykh Fotometricheskikh i Absolyutnykh Elementov Zatmennykh Peremennykh Zvez
HD 161733	
PSR 1744-24A	
V3894 Sgr	Leung, K.-C. 1988, in Critical Obs. vs. Physical Models for CBS, p. 93
HR 6641	
HD 162028	
V539 Ara	Clausen, J.V. 1979, AAp Suppl., 36, 45
V759 Sgr	
V380 Oph	
HR 6652	
V959 Sco	
HD 162630	
HD 162656	
HD 162679	
V906 Sco	Leung, K.-C., Schneider, D.P. 1975, ApJ, 201, 792

Name	Photometric solution
HD 162780	
V779 Sgr	Svechnikov, M.A., Kuznetsova, E.F. 1990, Katalog Priblizhennykh Fotometricheskikh i Absolyutnykh Elementov Zatmennykh Peremennykh Zvez
V453 Sco	Woodward, E.J., Koch, R.H. 1975, PASP, 87, 901
V566 Oph	Van Hamme, W., Wilson, R.E. 1985, AAp, 152, 25
V1647 Sgr	Andersen, J., Giménez, A. 1985, AAp, 145, 206
Z Her	Popper, D.M. 1988, AJ, 95, 1242
V1723 Sgr	Svechnikov, M.A., Kuznetsova, E.F. 1990, Katalog Priblizhennykh Fotometricheskikh i Absolyutnykh Elementov Zatmennykh Peremennykh Zvez
V508 Oph	Lapasset, E., Gómez, M. 1990, AAp, 231, 365
V735 Sgr	
V1944 Sgr	
V394 CrA	
V551 Sgr	
V4072 Sgr	(Isserstedt, J., Moffat, A.F.J. 1981, AAp, 96, 133)
HD 164898	

Name	M1	M2	A	R1	R2	T1	T2	log L1	log L2	Distance	U	V	W
V884 Sco	23.40	1.12											
V2213 Oph													
V616 Ara													
FQ Sco	0.89 p	0.86 p								336. p			
V2051 Oph	0.51	0.128 p								91.0 k			
V2101 Oph	0.71 p	0.28 p								367. p			
HD 155099	1.31 s	0.34 pi								64.4 s			
V829 Ara													
V795 Her	0.89 p	0.31 p								433. p			
AK Her	1.26	0.30								96.8 phi			
NSV 08383	0.71 p	0.28 p								434. p			
V824 Ara	1.16 s	1.08 s											
V2215 Oph													
U Oph	4.92	4.55											
u Her	7.77	2.90								350. phi			
V474 Sco													
V728 Her													
V825 Her													
DW Aps													
the Oph	10.96 s	5.41 del								202. s			
V819 Her	1.13 s	0.96 s								31.3 spi			
HD 158013													
V478 Sco	0.89 p	0.86 p								915. p			
HR 6497	3.56 s	3.56 s											
HR 6493	1.30 s	1.21 s								24.1 s			
HR 6502													
HR 6506	2.24 s	0.51 pi								107. s			
V499 Sco	12.88 s	3.94 phi								1240. phi			
HD 158320	26.92 s	2.83 pi								2060. s			
AT Ara	1.12	0.86 p								656. p			
MM Sco	0.89 p	0.86 p								440. p			
V700 Sco													
V442 Oph													
HR 6532	2.40 s									147. s			
lam Sco	11.22 s									102. s			

Name	M1	M2	A	R1	R2	T1	T2	log L1	log L2	Distance	U	V	W
FV Ara	0.71 p	0.28 p								239. p			
V701 Sco	10.27	10.20								1520. phi			
HR 6535	38.04	36.52								1224. phi			
alp OphB													
CoD -33°1225	16.71	50.12 s											
V535 Ara	1.51	0.45											
WR 98										1910. g			
BF Ara	0.89 p	0.72 p								976. p			
xi Ser	1.58 s	0.23 pi								18.5 s			
HD 160861	1.20 s	0.49 pi								75.8 s			
ome Dra	1.20 s	0.95								19.9 spi			
SZ Her													
iot Her													
omi Ser													
V743 Sgr													
V624 Her	2.28	1.88								138. phi			
V620 Ara													
HD 161572													
HD 161603													
HD 161698													
V885 Sco													
HD 161733													
PSR 1744-24A										7090. g			
V3894 Sgr	6.61 s'	2.69 phi								497. phi			
HR 6641	2.09 s	0.98 pi								105. s			
HD 162028													
V539 Ara	6.24	5.31								340. phi			
V759 Sgr	0.89 p	0.55 p								404. p			
V380 Oph													
HR 6652													
V959 Sco													
HD 162630													
HD 162656													
HD 162679	2.57 s	0.144 pi								206. s			
V906 Sco	3.19	2.66								244. phi			

Name	M1	M2	A	R1	R2	T1	T2	log L1	log L2	Distance	U	V	W
HD 162780													
V779 Sgr													
V453 Sco	14.13	24.69								1300. phi			
V566 Oph	1.44	0.38											
V1647 Sgr	2.18	1.97								169. phi			
Z Her	1.61	1.31								86.6 phi			
V1723 Sgr													
V508 Oph	1.00	0.52											
V735 Sgr	1.00: s									345. p			
V1944 Sgr	0.89 p	0.55 p								764. p			
V394 CrA													
V551 Sgr	0.89 p	0.72 p								605. p			
V4072 Sgr	15.84 s	0.90 pi											
HD 164898													

Name	Notes
V884 Sco	Ome=330°
V2213 Oph	
V616 Ara	
FQ Sco	UGSS
V2051 Oph	
V2101 Oph	UG
HD 155099	
V829 Ara	Ell
V795 Her	UX ecl?
AK Her	del m=2.2V; *l3=0.0072
NSV 08383	UG:
V824 Ara	RS (0.08V); *Pphtm=1.682d
V2215 Oph	
U Oph	del m=0.35
u Her	del m=0.80; U=107y
V474 Sco	Alternative lc soln: B3/5+(B6), i=89, r1=0.32, r2=0.25, l1=0.77 p, q=0.67
V728 Her	
V825 Her	
DW Aps	
the Oph	del m=2.0
V819 Her	EA/D+BY; Vis. orb: P=5.54y, T=1986.337, a=0.072", 0.68, i=51.0°, ome=220.0°, Ome=141.2° (Baize, P. 1991, AAp Sup, 87, 49)
HD 158013	
V478 Sco	UG
HR 6497	
HR 6493	del m=0.58
HR 6502	
HR 6506	
V499 Sco	Min I-Min II=0.504p
HD 158320	
AT Ara	
MM Sco	UG
V700 Sco	
V442 Oph	vd sin i=650
HR 6532	
lam Sco	bet Cep (del V=0.06) + E:

Name	Notes
FV Ara	UG
V701 Sco	
HR 6535	Ell (amp 0.04V)
alp OphB	del Sct?; Vis. orb: P=8.517y, T=1943.20, a=0.483", e=0.804, i=115°, ome=142°, Ome=228°, B=0.807 (Kamper, K.W., Leggett, D., McCa
CoD -33°12259	
V535 Ara	
WR 98	
BF Ara	UGSS
xi Ser	
HD 160861	
ome Dra	
SZ Her	
iot Her	
omi Ser	del Sct (4.20-4.26 V), 0.53d
V743 Sgr	
V624 Her	del m=0.99; MV=+0.35
V620 Ara	
HD 161572	Single (N. Morrell, H.A. Abt 1991, ApJ, subm.)
HD 161603	Single (N. Morrell, H.A. Abt 1991, ApJ, subm.)
HD 161698	Single (N. Morrell, H.A. Abt 1991, ApJ, subm.)
V885 Sco	E/DM
HD 161733	Single (N. Morrell, H.A. Abt 1991, ApJ, subm.)
PSR 1744-24A	DM=242.153; *nu=1660 MHz
V3894 Sgr	
HR 6641	
HD 162028	
V539 Ara	*l3=0.037 V
V759 Sgr	NL
V380 Oph	
HR 6652	Secondary much ftr.
V959 Sco	*Prot=1.946381d
HD 162630	
HD 162656	
HD 162679	
V906 Sco	E? (del V=0.26); P wrong in vr soln.

Name	Notes
HD 162780	
V779 Sgr	
V453 Sco	del m=2.06 V
V566 Oph	
V1647 Sgr	U=592.5y
Z Her	del m=0.40; *Pphtm=3.962d
V1723 Sgr	
V508 Oph	
V735 Sgr	ISB: (Not a binary)
V1944 Sgr	N
V394 CrA	
V551 Sgr	UGSS
V4072 Sgr	cst? (van Genderen, van der Hucht 1986, AAp, 162, 109; Schulte-Ladbeck, van der Hucht 1988, BAAS, 20, 738)
HD 164898	

Name	RA(1950)	μ(RA)	Dec(1950)	μ(Dec)	Pos Ref	FK4	SRS	AGK3	SAO	GC	l	b
V820 Her	18 00 14.676	+0.01	+20 49 55.39	-1.4	Per70		43830	+20°1840	085672	24563	046.83	+19.81
V986 Oph	18 02 05.802	-0.03	+01 54 53.89	-1.8	AGK3			+1°2068	123090	24617	029.27	+11.29
HD 165052	18 02 06.467	+0.04	-24 24 10.84	-0.5	SAO				186247	24618	006.12	-01.47
PSR 1802-07	18 02 07.		-07 35								020.80	+06.78
V1276 Sgr	18 02 12.		-32 53 42.		GCVS						358.72	-05.67
FS CrA	18 02 47.		-37 31 12.		GCVS						354.69	-08.00
V772 Her Aab	18 03 42.272	-0.30	+21 26 26.17	-6.3	AGK3			+21°1779	085723	24664	047.76	+19.30
V772 Her AB	18 03 42.272	-0.30	+21 26 26.17	-6.3	AGK3			+21°1779	085723	24664	047.76	+19.30
40 Dra	18 03 47.520	+1.46	+79 59 48.27	+1.31	AGK3			+79°0490	008994	24667	111.78	+28.91
V426 Oph	18 05 24.786		+05 51 18.78								033.24	+12.36
V3792 Sgr	18 05 48.436	+0.11	-25 28 55.10	-0.4	Per70		14653		186350	24719	005.59	-02.74
EF Dra	18 05 58.280		+69 44 53.09		AC						100.05	+29.28
DQ Her	18 06 05.38	+0.01	+45 51 02.4	+1.6	(D87)						073.15	+26.44
V3903 Sgr	18 06 14.180	+0.08	-23 59 51.90	-0.2	Per70		14659		186366	24732	006.94	-02.10
V815 Her	18 06 19.888	+0.77	+29 40 57.54	-2.0	AGK3			+29°1782	085767		056.18	+21.76
PR Her	18 06 28.		+38 47		GCVS						065.60	+24.58
V631 Her	18 06 48.		+34 25		GCVS						061.06	+23.22
V954 Oph	18 06 50.		+01 22 36.		GCVS						029.34	+09.99
V839 Oph	18 06 58.344	-0.11	+09 08 27.59	+0.4	AGK3			+9°2169	123183		036.43	+13.48
UZ Ser	18 08 33.31		-14 56 17.6		L85						015.11	+01.84
HD 166734	18 09 38.201	+0.06	-10 44 41.64	+0.5	Per70		14692		161182		018.92	+03.63
V1830 Sgr	18 10 42.		-27 42 54.		GCVS						004.16	-04.77
mu Sgr	18 10 46.324	+0.016	-21 04 25.46	+0.07	FK4	682	30682		186497	24856	010.00	-01.60
V2509 Sgr	18 12 28.406	-0.19	-35 39 16.25	+2.0	SAO				209923		357.28	-08.85
V963 Oph	18 12 44.		+06 47		GCVS						034.92	+11.14
V2323 Sgr	18 12 45.		-27 58 12.		GCVS						004.15	-05.30
V533 Her	18 12 46.38	+0.03	+41 50 22.1	+0.6	(D87)						069.19	+24.27
NSV 10469	18 13 39.		+39 28		NSV						066.75	+23.44
HR 6849	18 13 48.337	-0.23	+56 34 13.96	+2.9	AGK3			+56°1162	030836	24927	085.21	+27.31
TZ Lyr	18 14 14.17		+41 05 35.2		PI77						068.49	+23.81
RS Sgr	18 14 17.236	-0.11	-34 07 35.38	-0.9	SAO				209959	24947	358.83	-08.47
HR 6841	18 14 32.490	-0.03	-18 28 58.27	-0.1	SAO				161267	24950	012.70	-01.13
V1961 Sgr	18 14 47.33		-25 45 19.4		AC						006.33	-04.65
AM Her	18 14 58.75	-0.40	+49 50 54.9	+3.0	(W83)						077.86	+25.88
TZ CrA	18 15 11.385	+0.19	-43 22 52.61	-0.1	SAO				228898		350.49	-12.78

Name	RA(1950)	μ(RA)	Dec(1950)	μ(Dec)	Pos Ref	FK4	SRS	AGK3	SAO	GC	l	b
MY Ser	18 15 17.602	-0.09	-12 15 45.67	+1.2	SAO				161292	24969	018.25	+01.68
GM Sgr	18 16 16.2		-25 25 43.								006.76	-04.80
CV Ser	18 16 19.810	-0.15	-11 39 16.24	+1.5	SAO				161325		018.90	+01.76
108 Her	18 19 01.374	+0.07	+29 50 01.63	+5.3	Per70		43904	+29°1821	085956	25056	057.37	+19.23
V391 Lyr	18 19 31.575		+38 46 13.75		BFW87						066.40	+22.14
Sgr X-4	18 20 27.74		-30 23 15.1								002.79	-07.91
TZ Dra	18 20 50.701	0.00	+47 32 32.22	+1.1	AGK3			+47°1321	047430		075.64	+24.39
PSR 1820-11	18 20 53.4		-11 16 45.								019.77	+00.95
phi Dra	18 21 28.502	-0.42	+71 18 42.09	+6.1	AGK3			+71°0535	009084	25114	101.88	+28.04
W Sct	18 21 43.60		-13 40 53.7								017.75	-00.37
RZ Dra	18 22 21.813	-0.10	+58 52 34.23	-2.6	AGK3			+58°1121			087.97	+26.56
V4019 Sgr	18 22 22.		-25 41 18.		GCVS						007.18	-06.13
V430 Sct	18 22 24.821	+0.06	-14 00 26.18	0.0	Per70		14832		161457	25133	017.54	-00.67
RY Sct	18 22 42.706	-0.11	-12 43 09.24	+0.5	SAO				161458		018.71	-00.12
V3941 Sgr	18 22 48.		-29 27 18.		GCVS						003.86	-07.94
RZ Sct	18 23 48.968	+0.08	-09 13 56.04	-0.5	SAO				142317		021.91	+01.28
HR 6917	18 24 02.968	+0.182	+29 47 56.13	-2.17	FK4	1479	31479	+29°1832	086043	25165	057.76	+18.20
EQ Sct	18 24 14.0		-12 01 07.		LS						019.50	-00.13
d Ser	18 24 38.902	+0.09	+00 09 53.73	-0.4	AGK3			+0°2200	123497	25176	030.34	+05.48
V391 Sct	18 25 14.		-15 56 45.								016.15	-02.18
V2349 Sgr	18 25 31.381	-0.01	-16 44 02.08	+0.3	SAO				161502		015.48	-02.61
HR 6928	18 25 32.158	-0.03	+06 09 43.34	-2.6	Per70		43927	+6°2266	123516	25198	035.81	+08.03
BE Dra	18 26 15.72		+68 55 52.6		PI77						099.23	+27.45
V451 Oph	18 26 52.942	+0.07	+10 51 28.93	+1.2	AGK3			+10°2237	103766		040.21	+09.84
V3454 Sgr	18 26 53.		-32 07 48.		GCVS						001.84	-09.92
60 Ser	18 27 04.776	+0.198	-02 01 09.27	-3.34	FK4	1480	31480	-2°1091	142348	25234	028.68	+03.93
del1 Tel	18 28 03.240	-0.13	-45 57 02.52	-3.5	Per70		43940		229092	25269	349.06	-15.93
del2 Tel	18 28 20.113	-0.02	-45 47 37.72	-1.1	Per70		43942		229095	25273	349.23	-15.91
RX Her	18 28 20.265	+0.13	+12 34 31.12	-0.5	AGK3			+12°1953	103793	25274	041.94	+10.27
PSR 1829-10	18 29 55.01		-10 23 50.6								021.59	-00.60
V4066 Sgr	18 30 07.65		-23 06 40.4		AC						010.30	-06.52
V634 CrA	18 30 50.34		-42 29 38.2		AC						352.54	-15.01
PSR 1831-00	18 31 43.25		-00 13 13.3								030.81	+03.73
CH Her	18 32 41.78	-0.62	+24 45 44.3	-14.3	(MB)						053.69	+14.48
BY Dra	18 32 44.674	+1.94	+51 40 59.90	-32.3	AGK3			+51°1244	031048	25394	080.56	+23.58

Name	RA(1950)	μ(RA)	Dec(1950)	μ(Dec)	Pos Ref	FK4	SRS	AGK3	SAO	GC	l	b
BP CrA	18 33 26.		-37 28 18.		GCVS						357.49	-13.42
LL Lyr	18 33 31.325		+38 17 34.45		BFW87						066.87	+19.40
AB Tel	18 33 41.		-51 00 24.		GCVS						344.51	-18.68
V681 CrA	18 34 04.330	0.00	-42 59 55.58	-0.9	SAO				229152		352.31	-15.76
V3863 Sgr	18 37 08.33		-24 33 52.3		AC						009.72	-08.61
BD Pav	18 38 54.66		-57 33 43.0		D87						338.18	-21.56
BF Pav	18 41 13.53		-59 41 35.5		LG91						336.07	-22.45
V1331 Aql	18 41 37.182	-0.05	-01 36 21.90	-1.9	AGK3			-1°2251	142563		030.72	+00.90
46 Dra	18 41 39.774	-0.078	+55 29 17.40	+2.05	FK4Sup	3491		+55°1189	031119	25635	084.94	+23.29
NSV 11280	18 41 58.		-03 03		NSV						029.48	+00.16
V2038 Sgr	18 42 14.		-26 30 42.		GCVS						008.46	-10.49
FG Sct	18 42 16.		-06 11 42.		GCVS						026.73	-01.36
HR 7038	18 42 19.553	+0.19	-21 03 14.40	-2.0	SAO				187234	25653	013.44	-08.12
NSV 11297	18 42 35.		-03 02 00.		NSV						029.57	+00.03
AY Lyr	18 42 44.149	-0.09	+37 56 42.35	-0.8	(BFW87)						067.22	+17.59
zet1 Lyr	18 43 02.931	+0.01	+37 33 06.40	-0.4	AGK3			+37°1687	067321	25676	066.85	+17.38
5 Aql	18 43 53.644	+0.06	-01 00 56.62	-2.3	Per70		44005	-1°2257	142606	25713	031.51	+00.67
N Her 1991	18 44 11.93		+12 10 44.5								043.32	+06.62
V356 Sgr	18 44 54.357	+0.06	-20 19 49.29	-0.3	SAO				187294	25739	014.36	-08.34
AQ Tel	18 45 23.		-51 39 30.		GCVS						344.51	-20.63
HD 173886	18 45 34.167	-0.17	-19 44 31.89	+0.11	SAO				161845		014.97	-08.22
CX Dra	18 45 35.976	+0.063	+52 55 56.41	-0.06	FK4	1492		+52°1221	031165	25757	082.45	+22.03
HD 174343/44	18 46 12.064	+0.01	+49 22 32.22	-3.2	AGK3			+49°1455	047811	25773	078.83	+20.88
V603 Aql	18 46 21.470	+0.047	+00 31 36.21	-1.75	( )						033.16	+00.83
RS Sct	18 46 25.718	+0.20	-10 17 56.27	-2.5	SAO				161860		023.55	-04.16
AV Tel	18 46 27.		-50 54 36.		GCVS						345.32	-20.55
HR 7091	18 47 11.007	-0.04	+24 59 18.60	-1.8	AGK3			+24°1944	086462	25810	055.30	+11.58
50 Dra	18 47 59.715	-0.516	+75 22 33.84	+7.63	FK4	1494		+75°0780	009250	25839	106.61	+26.50
bet Lyr	18 48 13.936	+0.001	+33 18 12.51	-0.20	FK4	705	30705	+33°1690	067451	25847	063.19	+14.78
HD 174664	18 48 15.823	-0.05	+33 17 33.39	-0.8	Per70		44026	+33°1691	067453	25848	063.18	+14.77
HS Her	18 48 45.961	+0.01	+24 39 36.06	-1.4	AGK3			+24°1948	086497		055.15	+11.12
PZ Tel	18 49 13.745	+0.13	-50 14 26.92	-8.2	SAO				245781		346.15	-20.75
CI Aql	18 49 28.03		-01 32 19.1		D87						031.69	-00.81
V822 Her	18 49 44.326	-0.055	+13 54 15.54	-1.08	FK4Sup	3503	44033	+13°1847	104196	25886	045.48	+06.19
112 Her	18 50 08.196	-0.08	+21 21 48.31	-1.2	Per70		44034	+21°1906	086521	25895	052.27	+09.41

Name	RA(1950)	μ(RA)	Dec(1950)	μ(Dec)	Pos Ref	FK4	SRS	AGK3	SAO	GC	l	b
CY Lyr	18 50 40.36	+0.13	+26 41 46.6	+2.4	(Sz85)						057.21	+11.60
DI Her	18 51 21.765	-0.04	+24 12 54.00	+0.3	AGK3			+24°1953	086544		055.00	+10.39
V1223 Sgr	18 51 49.0		-31 13 39.2								004.96	-14.35
del1 Lyr	18 51 58.664	-0.020	+36 54 29.44	+0.37	FK4Sup	3506		+36°1707	067537	25934	066.93	+15.49
V1182 Aql	18 53 00.002	+0.04	+09 16 53.30	+1.2	AGK3			+9°2343	124049		041.71	+03.38
V1341 Aql	18 53 13.		-00 05 24.		GCVS						033.41	-00.98
HD 175544	18 53 13.166	-0.04	+00 11 58.95	-0.8	Per70		15161	+0°2268	124055		033.66	-00.84
V775 Her	18 53 47.211	+0.90	+23 29 40.63	-28.0	AGK3			+23°1827	086592		054.59	+09.58
PSR 1855+09	18 55 13.690650	-0.0203	+09 39 13.5162	-0.526	( )						042.29	+03.06
eps CrA	18 55 21.086	-1.110	-37 10 27.98	-9.59	FK4Sup	3512	44063		210781	26038	359.54	-17.32
HR 7174	18 56 19.140	-0.07	+38 11 50.84	0.0	AGK3			+38°1763	067642	26059	068.51	+15.21
DM Lyr	18 56 49.		+30 11 30.		GCVS						061.04	+11.84
V803 Aql	18 58 04.		-07 33 30.		GCVS						027.31	-05.47
HR 7200	18 59 13.272	+0.06	+20 45 37.79	-1.7	AGK3			+20°2003	086704	26147	052.67	+07.25
V599 Aql	18 59 48.098	+0.061	-10 47 42.35	-1.51	FK4Sup	3520	44085		162122	26175	024.59	-07.31

Name	Bayer	Flmstd	HR	HD	BD	CoD	CPD	Var	Other
V820 Her		96 Her	6738	164852	+20°3649			V820 Her	(3H Cer)
V986 Oph			6747	165174	+1°3578			V986 Oph	196G Oph; LS IV +1°1
HD 165052				165052		-24°13864	-24°06201		27G Sgr; LSS 4635; NGC 6530-118
PSR 1802-07									PSR 1802-07
V1276 Sgr								V1276 Sgr	
FS CrA								FS CrA	HV 7177
V772 Her Aab				165590 A	+21°3302			V772 Her	
V772 Her AB				165590 AB	+21°3302			V772 Her	
40 Dra		40 Dra	6809	166865	+79°0570				CSV 101716; NSV 10205; P 4620
V426 Oph								V426 Oph	29.1926; SVS 83
V3792 Sgr			6773	165814		-25°12793	-25°06353	V3792 Sgr	BV 552
EF Dra								EF Dra	X1806+697 (1E,MS)
DQ Her								DQ Her	452.1934; N Her 1934
V3903 Sgr		11 Sgr		165921		-24°13962	-24°06247	V3903 Sgr	LSS 4700
V815 Her				166181	+29°3187			V815 Her	INCA 2363
PR Her								PR Her	S 4247
V631 Her								V631 Her	S 10422
V954 Oph								V954 Oph	CSV 3809; S 4206
V839 Oph				166231	+9°3584			V839 Oph	
UZ Ser								UZ Ser	56.1924
HD 166734				166734	-10°4625				LS IV -10°3
V1830 Sgr								V1830 Sgr	
mu Sgr	mu1 Sgr	13 Sgr	6812	166937	-21°4908		-21°06771	mu Sgr	1H Sgr; 41G Sgr; 17.1938; LSS 4791; MWC
V2509 Sgr				167231		-35°12429	-35°07840	V2509 Sgr	BV 584
V963 Oph								V963 Oph	CSV 3933; S 4217
V2323 Sgr								V2323 Sgr	
V533 Her								V533 Her	N Her 1963
NSV 10469									NSV 10469; S 10425
HR 6849			6849	168092	+56°2080				
TZ Lyr					+41°3021			TZ Lyr	26.1914
RS Sgr			6833	167647		-34°12673	-34°07719	RS Sgr	47G Sgr
HR 6841			6841	167771	-18°4886				52G Sgr; LSS 4874
V1961 Sgr								V1961 Sgr	
AM Her								AM Her	28.1923; X1814+498 (3A,1ES,H,1H,1M,4U
TZ CrA				167777		-43°12429	-43°08543	TZ CrA	127.1910; HV 3299

Name	Bayer	Flmstd	HR	HD	BD	CoD	CPD	Var	Other
MY Ser				167971	-12°4980			MY Ser	30G SerCd; LSS 4894
GM Sgr								GM Sgr	HV 4048
CV Ser				168206	-11°4593			CV Ser	AFGL 2120S; He 3-1667; LS IV -11°14; MR
108 Her		108 Her	6876	168913	+29°3241				
V391 Lyr								V391 Lyr	S 10436
Sgr X-4									Sgr X-4; X1820-303 (3A,1ES,H,1H,1M,2S,4
TZ Dra					+47°2625			TZ Dra	94.1910; HV 3281
PSR 1820-11									PSR 1820-11
phi Dra	phi Dra	43 Dra	6920	170000	+71°0889			phi Dra	29H Dra; CSV 101729; Zi 1408
W Sct					-13°4965			W Sct	56.1907; HV 2910; LS IV -13°44
RZ Dra								RZ Dra	26.1907
V4019 Sgr								V4019 Sgr	
V430 Sct				169454	-14°5039			V430 Sct	LS IV -14°54; MWC 294
RY Sct				169515	-12°5045			RY Sct	34.1908; AFGL 5235S; He 3-1694; HV 3076;
V3941 Sgr								V3941 Sgr	
RZ Sct				169753	-9°4736			RZ Sct	35.1908; HV 3077; LS IV -9°12
HR 6917			6917	169981	+29°3259				
EQ Sct								EQ Sct	LS IV -12°58; P 4668; SVS 589
d Ser	d Ser	9 Ser A(bc)	6918	169985	+0°3936			d Ser	41G SerCd; INCA 2373
V391 Sct								V391 Sct	M 64
V2349 Sgr				170097	-16°4888			V2349 Sgr	BV 556; LSS 5061
HR 6928			6928	170200	+6°3790				44G SerCd; NGC 6633-102
BE Dra								BE Dra	BV 233
V451 Oph				170470	+10°3528			V451 Oph	104.1935
V3454 Sgr								V3454 Sgr	Plaut 3-1040
60 Ser	c Ser	60 Ser	6935	170474	-2°4641				45G SerCd
del1 Tel	del1 Tel		6934	170465		-45°12550	-45°09323		16G Tel
del2 Tel	del2 Tel		6938	170523		-45°12556	-45°09330		17G Tel
RX Her				170757	+12°3557			RX Her	
PSR 1829-10									PSR 1829-10
V4066 Sgr								V4066 Sgr	NSV 11003
V634 CrA								V634 CrA	
PSR 1831-00									PSR 1831-00
CH Her								CH Her	203.1929
BY Dra				234677	+51°2402			BY Dra	CSV 102879; G 227-36; Gl 719; LTT 15477;

Name	Bayer	Flmstd	HR	HD	BD	CoD	CPD	Var	Other
BP CrA								BP CrA	
LL Lyr								LL Lyr	S 3808
AB Tel								AB Tel	HV 9996
V681 CrA				171577		-43°12674	-43°08691	V681 CrA	BV 884
V3863 Sgr								V3863 Sgr	Hoffleit 213
BD Pav								BD Pav	HV 10031; N Pav 1934
BF Pav								BF Pav	HV 10044
V1331 Aql				173198	-1°3553			V1331 Aql	CSV 101756; LS IV -1°7; Zi 1497
46 Dra	c Dra	46 Dra	7049	173524	+55°2107				32H Dra; CSV 101760; NSV 11273; Zi 1515
NSV 11280									CSV 101757; NSV 11280
V2038 Sgr								V2038 Sgr	
FG Sct								FG Sct	
HR 7038			7038	173282	-21°5131		-21°07041		96G Sgr
NSV 11297									CSV 7932; NSV 11297
AY Lyr								AY Lyr	330.1928; X1842+379? (H)
zet1 Lyr	zet1 Lyr	6 Lyr	7056	173648	+37°3222				5H Lyr A; CSV 101763; NSV 11308; Zi 1514
5 Aql		5 Aql	7059	173654	-1°3559				3G Aql
N Her 1991									N Her 1991
V356 Sgr				173787	-20°5268		-20°07191	V356 Sgr	
AQ Tel								AQ Tel	HV 10068
HD 173886				173886	-19°5170		-19°07088		
CX Dra			7084	174237	+52°2280			CX Dra	MWC 608
HD 174343/44				174343/4	+49°2871				
V603 Aql				174107				V603 Aql	7.1918; N Aql 1918; X1846+005 (1ES)
RS Sct					-10°4814			RS Sct	62.1907; HV 2916
AV Tel								AV Tel	HV 10074
HR 7091			7091	174369	+24°3545				
50 Dra		50 Dra	7124	175286	+75°0682				
bet Lyr	bet Lyr	10 Lyr	7106	174638/9	+33°3223			bet Lyr	Sheliak; 7H Lyr; AFGL 5305S; INCA 1201; I
HD 174664				174664	+33°3224				IRC +30343
HS Her				174714	+24°3552			HS Her	IZ Her; HV 10129; SVS 923
PZ Tel				174429		-50°12190	-50°10862	PZ Tel	INCA 1202
CI Aql								CI Aql	23.1925
V822 Her			7109	174853	+13°3787			V822 Her	CSV 101774; NSV 11442; Zi 1538
112 Her		112 Her	7113	174933	+21°3582				

Name	Bayer	Flmstd	HR	HD	BD	CoD	CPD	Var	Other
CY Lyr								CY Lyr	237.1929
DI Her				175227	+24°3568			DI Her	307.193
V1223 Sgr								V1223 Sgr	X1851-312 (3A,1E,1ES,1H,4U)
del1 Lyr	del1 Lyr	11 Lyr	7131	175426	+36°3307				CSV 101781; NSV 11504; Zi 1554
V1182 Aql				175514	+9°3928			V1182 Aql	LS IV +9°5; SVS 1572
V1341 Aql								V1341 Aql	CSV 8040; NSV 11546; SVS 1219
HD 175544				175544	+0°4055				LS IV +0°6
V775 Her				175742	+23°3500			V775 Her	INCA 2394; X1853+234 (1ES)
PSR 1855+09									PSR 1855+09
eps CrA	eps CrA		7152	175813		-37°13001	-37°08433	eps CrA	34G CrA
HR 7174			7174	176318	+38°3373				
DM Lyr								DM Lyr	250.1929
V803 Aql								V803 Aql	
HR 7200			7200	176819	+20°4022				CSV 102898; NSV 11659
V599 Aql				176853	-10°4926			V599 Aql	10G Aql; HV 11085; LS IV -10°26

Name	Sp1	Sp2	T-JD 2400000	P	e	omel	V0	K1	K2	v1 sin i	v2 sin i
V820 Her	B3IV	B3(IV)	45895.41	12.4573	0.536	321.3	-15.5	57.6	57.5	30-40.	30-40.
V986 Oph	B0.5IIIn	[B9.5V]		25.56	0.23	-	-	17.5		280	
HD 165052	O6.5Vf:	[O7V]	42939.5	6.140	0.064	303.7	+3.0	91.0	104.0	172	
PSR 1802-07			45035.3	2.62	0.22	~170.	-	33.7			
V1276 Sgr	K3V	(K6)	28037.391	0.3480939							
FS CrA			31204.3895	0.2636378							
V772 Her Aab	G1V	(K6V)	43665.4800	0.8795045	0.045	100.4	-22.8	94.68		75:	*
V772 Her AB	G1V	G5V	43669.24	7397.54	0.958	3.0	-22.8	17.95	33.38	75:	18
40 Dra	F7(V)	[F7V]	21764.6481	10.5217	0.314	256.76	+2.93	46.16	51.50	<=25.	
V426 Oph	sdBe	K3V	45526.7261	0.285314	0	-	-17.	142	183	450 e; 488 Wi	
V3792 Sgr	B3III	(B3V)	41879.355	2.248082	0.06	91	-6.	151	211		
EF Dra	F9		47700.7602	0.42400						100	
DQ Her	sdBe	M3V	34954.94423	0.193620873	0	-	-20.	149	232	737 Sh;	115
V3903 Sgr	O7V	O9V	45192.221	1.744228	0.0	-	+4.	234	331	185	180
V815 Her	G5V	[M2V]	41931.127	1.8098368	0.029	218.5	-13.4	54.6		27.*	
PR Her				[0.108]							
V631 Her				0.060?							
V954 Oph	[K5]	(K5)	29785.411	0.225270							
V839 Oph	F8V	(F8V)	40448.4129	0.40899532							
UZ Ser	sdBe		46622.6480:	0.1730							
HD 166734	O7.5If	O9I	41005.12	34.54	0.46	224	-3.	148	140	80	
V1830 Sgr				[0.071]							
mu Sgr	B8eqIa	B1.5V	23632.21	180.55	0.395	79.2	-2.7	56.8		<=54.	
V2509 Sgr	A0IV	(F7)	44387.7712	1.0869739							
V963 Oph	[K0]	(K0)	29785.523	0.264743							
V2323 Sgr				[0.108]							
V533 Her	sdBe		46594.922	0.2097774?	0	-	-40.	90		471: Wi	
NSV 10469				<0.2?							
HR 6849	F1V	F1(V)	22620.626	2.04765	0.037	211	-8.3	104.9	108.0	55	50
TZ Lyr	F5V	K0(IV-V)	44784.4093	0.5288269							
RS Sgr	B3IV-V	A(1III)	45509.6553	2.4156832	0.04	187.9	+10.1	83.8	253.4	186:	
HR 6841	O7III(n)((f))	(O7IV-V)	42566.8	3.9735	0	-	+9.1	107.1	122.9	90:	
V1961 Sgr	[wd]		36838.496	0.2038504							
AM Her	sdBe	M4.5V	44452.847	0.12892737	0	-	-19.		190:	327 Wi	
TZ CrA	A1III/IV	K3IV:	36080.035	0.68674954							

Name	Sp1	Sp2	T-JD 2400000	P	e	omel	V0	K1	K2	v1 sin i	v2 sin i
MY Ser	O5-O8V	O5-O8V	46231.612	3.32160	0	-	+21.	(~150.)	279	135	
GM Sgr			47707.454	0.7365483							
CV Ser	WC8	O8-9IV	43415.0	29.7055	0	-	+23.	149	71		
108 Her	A2.5/8/F2(IV	(A9V)	40002.458	5.51274	0.001	-	-21.9	70.1	81.9	20	20
V391 Lyr				(0.506 ACP)							
Sgr X-4	(ns)		42803.63940*	0.00792838105							
TZ Dra	A7V	(K2IV)	42966.482	0.8660347							
PSR 1820-11	(PSR)		47261.043	357.7622	0.79462	99.172	-	20.1425			
phi Dra	A0(IV)pSi	[G8V]	38853.6	26.768	0.39	171	-20.8	26.6		88.*	
W Sct	B0	B3n	20665.47	10.2703	0	-	-16.		76		
RZ Dra	A5(V)	(K2V)	44177.5555	0.5508738	0	-	-16.	104			
V4019 Sgr	sdBe			[0.182]							
V430 Sct	B1Iaeq		40836.935	49.9966	0	-	+10.9	8.1		61	
RY Sct	O6-7Ibe	O9.5-B0Ib	43342.42	11.12471	0	-	+30.	225	180		
V3941 Sgr				[0.108]							
RZ Sct	B2II	A0II-III	19261.1025	15.1902079	0	-	-14.5	36.5		250	
HR 6917	A2IV	(K2IV)	22048.711	9.612	0.4684	326.43	+7.54	28.49			
EQ Sct	B[2]	(B2)	30918.267	1.3217788							
d Ser	A6V	A6V	30172.958	1.8505205	0	-	-23.3	90	100	270	
V391 Sct				[0.108]							
V2349 Sgr	B1Vne	(B2V)	26916.650	5.02565	0	-	+13.9	(40:)			
HR 6928	B8III-IV	[G8V]	40806.838	3.494064	0.063	36.1	-14.7	38.5		30	
BE Dra	B[9]	(F0)	36317.368	0.5224911							
V451 Oph	B9V	A0V	45887.53212	2.196597	0.0125 phi	254.1 phi	-10.0	129.3	152.3	41	30
V3454 Sgr			35658.825	0.23648							
60 Ser	K0III			3.1558	0.00	-	+27.53	3.55		<17.	
del1 Tel	B6IV	[B9V]	35003.693	18.8456	0.51	78	+7.	65		33	
del2 Tel	B3III	[B9V]	35216.6688	21.70564	0.218	12.65	-7.6	34.9		24	
RX Her	B9.5V	B9.5V	33170.398	1.7785724	0	-	-26.	138	163	44	48
PSR 1829-10	(PSR)		48214.6	184.4	<~0.1	-	-	0.00090			
V4066 Sgr	M5		44025.73	2.145508							
V634 CrA	[G6]	(G5)	30930.308	0.3079578							
PSR 1831-00	(PSR)		46458.8821	1.8111032	<0.004	70	-	8.704			
CH Her				[0.108]							
BY Dra	K4V	K7.5V	43794.193	5.975112	0.3066	229.3	-25.35	28.55	32.04	8.0*	7.4

Name	Sp1	Sp2	T-JD 2400000	P	e	omel	V0	K1	K2	v1 sin i	v2 sin i
BP CrA				(0.217)							
LL Lyr				(0.067 or 0.224 ACP)							
AB Tel	[G4]	(G0)	44441.7580	0.32597							
V681 CrA	B9.5V	(G0IV)	28748.350	2.163925							
V3863 Sgr				0.364913							
BD Pav	sdBe	K7V	44412.676	0.1793015	0	-	-26.	(~300.)	278		125
BF Pav	[G6]	(G5.5)	44438.7611	0.3056							
V1331 Aql	B1V	(B1V)	42610.0581	1.3641953			-21.7	(14:)			
46 Dra	B9.5(IV)pHg	A0(V)	40003.22	9.81073	0.200	173	-30.95	25.1	29.5	<=5.*	<=5.
NSV 11280				[0.108]							
V2038 Sgr				(1.74 ACP)							
FG Sct			44752.9378	0.270548							
HR 7038	F5V		45079.89	33.161	0.724	291.4	-2.97	50.31			
NSV 11297				[0.108]							
AY Lyr	sdBe			0.07314:							
zet1 Lyr	A6/8/F1(IV)m	[K0V]	40001.798	4.30012	0.011	-	-24.9	51.6		27	
5 Aql	A2/3/6Vm	[F7V]	40003.237	4.76529	0.02	-	+19.1	17.3	30.8	<=25.	<=25.
N Her 1991				1.487946?							
V356 Sgr	B1.5V	A2II	33900.827	8.89610	0	-	+7.	190	73	205	61
AQ Tel				0.3:							
HD 173886	B8V		42197.92	3.87	0.4	85:	-	40			
CX Dra	B2.5Ve	[A5V]	22181.79	6.698270	0.0	-	-3.12	35.63		170	
HD 174343/44	FOIII		22160.044	4.2435	0	-	-18.6	101.0	100.2		
V603 Aql	sdBe			0.1381545	0	-	-23.	37.5		249 Sh; 240 e; 225	
RS Sct	F5		44437.1658	0.6642384	0	-	-42.	118	198		
AV Tel				0.215:							
HR 7091	A1Vn		33504.313	13.081	0.391	253.5	-25.86	28.94		74	
50 Dra	A1Vn	[A1V]	20293.519	4.1175	0.012	107.6	-8.79	79.12	83.90	57	
bet Lyr	B6-8IIe	B0V:	08247.9632*	12.9137869	0	-	-17.8	184.0	43.1	42	85
HD 174664	B7V	[M4V]	36852.014	4.348	0.25	158.6	-29.4	12.0			
HS Her	B5III	(A7III)	40146.3888	1.6374347	0.05	37	-16.0	82.6			
PZ Tel	K0Vpn		44442.859	0.943	0	-	-3.2	0		75	
CI Aql	G:			[0.18]							
V822 Her	B8Vnn	B8Vnn	46202.973	1.391113	0.0088	201	-24.1	165.8	165.9	96.0	91.2
112 Her	B9II-IIIpHg	[A0V]	23902.482	6.36249	0.116	195.53	-19.63	17.68	36.4	13	

Name	Sp1	Sp2	T-JD 2400000	P	e	omel	V0	K1	K2	v1 sin i	v2 sin i
CY Lyr	sdBe			(0.088)							
DI Her	B4V	B5V	42231.5032	10.5501680	0.489	329.9	+8.6	110.7	126.6	61	75
V1223 Sgr	sdBe		45517.1091	0.1402323	0	-	-53.	56		180: e	
del1 Lyr	B2.5V		28406.613	88.352	0.37	191.3	-17.2	39.7		123	
V1182 Aql	O9Vnn	B3V	46267.4027	1.621887	0	-	+6.8	149.8	439.6	145	
V1341 Aql	[G5]	(F7)	38621.432	0.3040063							
HD 175544	B3V	[B3V]	33474.00	1.98575	0.017	167	-12.9	149.4	190.2	165	
V775 Her	K0V	K5V	43675.579	2.879395	0.003	266.7	+10.31	49.46		15.*	
PSR 1855+09	(PSR)		47530.39335870	12.3271711900	0.00002167	276.299335	-	16.325325			
eps CrA	F2V	(F5V)	39707.6001	0.5914264	0.13	42	+55.5	25.5		132:	
HR 7174	B7IV	[A5V]	32721.793	2.911557	0.165	92.5	-31.1	76.5		125	
DM Lyr				[0.108]							
V803 Aql			47684.8038	0.263422299							
HR 7200	B2IV-V	[B6V]	24698.747	15.9526	0.159	262.24	-10.29	55.08			
V599 Aql	B3.0V	B5.0V	46649.300	1.84604	0.0	-	-1.0	137.2	203.8	111	82

Name	Spectroscopic orbit
V820 Her	Koubsky, P., Horn, J., Harmanec, P., Iliev, L.H., Kovacev, B.Z., Bolton, C.T., Lions, R.W., Bozic, H., Pavlovski, K. 1985, IBVS 2778
V986 Oph	Fullerton, A.W., Bolton, C.T., Penrod, G.D. 1985, JRASC, 79, 236
HD 165052	Morrisson, N.D., Conti, P.S. 1978, ApJ, 224, 558
PSR 1802-07	D'Amico, N., Lyne, A.G., Bailes, M., Johnston, S., Manchester, R.N., Staveley-Smith, L., Lim, J., Fruchter, A.S., Goss, W.M. 1990, IAU Cir
V1276 Sgr	
FS CrA	
V772 Her Aab	Batten, A.H., Morbey, C.L., Fekel, F.C., Tomkin, J. 1979, PASP, 91, 304
V772 Her AB	Batten, A.H., Morbey, C.L., Fekel, F.C., Tomkin, J. 1979, PASP, 91, 304
40 Dra	Boothroyd, S.L. 1920, Pub. DAO, 1, 245
V426 Oph	Hessman, F.V. 1987, AAp Suppl., 72, 515
V3792 Sgr	Young, A., Etzel, P. 1975, PASP, 87, 471
EF Dra	
DQ Her	Greenstein, J.L., Kraft, R.P. 1959, ApJ, 130, 99; Horne, K., Welsh, W.F., Wade, R.A. 1990, Accretion-Powered Compact Binaries (CUP), p. 3
V3903 Sgr	Niemela, V.S., Morrison, N.D. 1988, PASP, 100, 1436
V815 Her	Nadal, R., Pédoussaut, A., Ginestet, N., Carquillat, J.-M. 1974, AAp, 37, 191
PR Her	
V631 Her	
V954 Oph	
V839 Oph	
UZ Ser	
HD 166734	Conti, P.S., Ebbets, D., Niemela, V.S. 1980, ApJ, 238, 184
V1830 Sgr	
mu Sgr	Kohl, O. 1932, AN, 246, 425; Lowen, L. 1950, PASP, 62, 61
V2509 Sgr	
V963 Oph	
V2323 Sgr	
V533 Her	Hutchings, J.B. 1987, PASP, 99, 57
NSV 10469	
HR 6849	Luyten, W.J. 1936, ApJ, 84, 85
TZ Lyr	
RS Sgr	Ferrer, O.E., Sahade, J. 1986, PASP, 98, 1342
HR 6841	Morrisson, N.D., Conti, P.S. 1978, ApJ, 224, 558
V1961 Sgr	
AM Her	Young, P., Schneider, D.P., Shectman, S.A. 1981, ApJ, 245, 1043
TZ CrA	

Name	Spectroscopic orbit
MY Ser	Leitherer, C., Forbes, D., Gilmore, A.C., Hearnshaw, J., Klare, G., Krautter, J., Madel, H., Stahl, O., Strupat, W., Wolf, R., Zickgraf, F.-J., Zi
GM Sgr	
CV Ser	Massey, P., Niemela, V.S. 1981, ApJ, 245, 195
108 Her	Abt, H.A., Levy, S.G. 1985, ApJ Suppl., 59, 229
V391 Lyr	
Sgr X-4	
TZ Dra	
PSR 1820-11	Lyne, A.G., McKenna, J. 1989, Nature, 340, 367
phi Dra	Abt, H.A., Snowden, M.S. 1973, ApJ Suppl., 25, 137
W Sct	Struve, O. 1946, ApJ, 103, 76
RZ Dra	Struve, O. 1946, ApJ, 103, 76
V4019 Sgr	
V430 Sct	(Merrill, P.W. 1930, ApJ, 72, 98; Hutchings, J.B. 1976, Pub. DAO, 14, 355; Sterken, C., Wolf, B. 1978, Astr. Ap. Suppl., 35, 69)
RY Sct	Cowley, A.P., Hutchings, J.B. 1976, PASP, 88, 456
V3941 Sgr	
RZ Sct	Hansen, K., McNamara, D.H. 1959, ApJ, 130, 791
HR 6917	Young, R.K. 1919, Pub. DAO, 1, 131
EQ Sct	
d Ser	Tilley, E.C. 1943, ApJ, 98, 347
V391 Sct	
V2349 Sgr	(Neubauer, F.J. 1943, ApJ, 97, 300)
HR 6928	Hube, D.P. 1976, PASP, 88, 58
BE Dra	
V451 Oph	Popper, D.M. 1971, ApJ, 166, 361
V3454 Sgr	
60 Ser	Christie, W.H. 1933, PASP, 45, 190
del1 Tel	Buscombe, W., Kennedy, P.M. 1962, PASP, 74, 323
del2 Tel	Buscombe, W. 1956, MN, 116, 262
RX Her	Popper, D.M. 1959, ApJ, 129, 659
PSR 1829-10	Bailes, M., Lyne, A.G., Shemar, S.L. 1991, Nature, 352, 311
V4066 Sgr	
V634 CrA	
PSR 1831-00	Taylor, J.H., Dewey, R.J. 1988, ApJ, 332, 770
CH Her	
BY Dra	Lucke, P.B., Mayor, M. 1980, AAp, 92, 182

Name	Spectroscopic orbit
BP CrA	
LL Lyr	
AB Tel	
V681 CrA	
V3863 Sgr	
BD Pav	Barwig, H., Schoembs, R. 1983, AAp, 124, 287; Friend, M.T., Martin, J.S., Smith, R.C., Jones, D.H.P. 1990, MN, 246, 637
BF Pav	
V1331 Aql	(Neubauer, F.J. 1943, ApJ, 97, 300)
46 Dra	Aikman, G. 1976, Pub. DAO, 14, 379
NSV 11280	
V2038 Sgr	
FG Sct	
HR 7038	Salzer, J.J., Beavers, W.I. 1985, PASP, 97, 637
NSV 11297	
AY Lyr	
zet1 Lyr	Abt, H.A., Levy, S.G. 1985, ApJ Suppl., 59, 229
5 Aql	Abt, H.A., Levy, S.G. 1985, ApJ Suppl., 59, 229
N Her 1991	
V356 Sgr	Popper, D.M. 1955, ApJ, 121, 56
AQ Tel	
HD 173886	Gieseking, F. 1976, AAp, 47, 43
CX Dra	Koubsky, P. 1978, BAC, 29, 288
HD 174343/44	Tanner, R.W. 1949, Pub. DDO, 1, 473
V603 Aql	Kraft, R.P. 1964, ApJ, 139, 457
RS Sct	King, D.J., Hilditch, R.W. 1984, MN, 209, 645
AV Tel	
HR 7091	Wehlau, W.H. 1960, JRASC, 54, 164
50 Dra	Harper, W.E. 1919, JRASC, 13, 236
bet Lyr	Batten, A.H., Fletcher, J.M. 1975, PASP, 87, 237; Skul'skii, M.Yu., Topil'skaya, G.P. 1991, Pis'ma AZh, 17, 619 (1992, Sov. Astr. Lett., 17,
HD 174664	Abt, H.A., Jeffers, H.M., Gibson, J., Sandage, A.R. 1962, ApJ, 135, 429
HS Her	Cesco, C.U., Sahade, J. 1945, ApJ, 101, 114
PZ Tel	Innis, J.L., Coates, D.W., Thompson, K. 1988, MN, 233, 887
CI Aql	
V822 Her	Hube, D.P., Hill, G., Fisher, W.A. 1988, AJ, 95, 199
112 Her	Meyer, W.F. 1927, Lick Bull., 13, 49; Seligman, C.E. 1970, PASP, 82, 128

Name	Spectroscopic orbit
CY Lyr	
DI Her	Popper, D.M. 1982, ApJ, 254, 203
V1223 Sgr	Watts, D.J., Giles, A.B., Greenhill, J.G., Hill, K., Bailey, J. 1985, MN, 215, 83
del1 Lyr	Richardson, E.H., McKellar, A. 1957, Pub. DAO, 10, 407
V1182 Aql	Terrell, D. 1991, MN, 250, 209
V1341 Aql	
HD 175544	Thackeray, A.D., Tatum, J.B. 1966, Pub. DAO, 13, 19
V775 Her	Imbert, M. 1979, Astr. Ap. Suppl., 38, 401
PSR 1855+09	Ryba, M.F., Taylor, J.H. 1991, ApJ, 371, 739
eps CrA	Hernandez, C.A., Sahade, J., Sistéro, R. 1979, ApJ, 230, 822
HR 7174	Gorza, W. 1971, JRASC, 65, 277
DM Lyr	
V803 Aql	
HR 7200	Millman, P.M. 1928, Pub. DAO, 4, 97
V599 Aql	Hill, G., Khalesseh, B. 1991, AAp, 245, 517

Name	V	B-V	U-B	R-I	E(B-V)	par	Cluster	ADS	Vis Binary	Companions
V820 Her	5.28	-0.09	-0.61		0.13	0.004				
V986 Oph	6.133	-0.007	-0.908		0.22		(Mel 286)			
HD 165052	6.87	+0.11	-0.82		0.44		NGC 6530			
PSR 1802-07					1.10		NGC 6539			
V1276 Sgr	14.1 p									
FS CrA	13.50	+1.12		+0.62						
V772 Her Aab	7.07	+0.66	+0.13		0.00	0.029;	D0.024	11060 A	OSig 341 A (orb)	8.5v, G5V, 0.248"; 10.62V, +1.36,
V772 Her AB	7.07	+0.66	+0.13			0.029;	D0.024	11060 AB	OSig 341 AB (orb)	A is V772 Her (q.v.); 10.62V, +1.36,
40 Dra	6.04	+0.51	-0.01		0.01	0.025		11061 B	Sig 2308 B	5.68V, F7, 19.3"
V426 Oph	11.28	+0.15	-0.73		0.10 u		(Mel 186)			
V3792 Sgr	6.43	+0.02	-0.47				(Sgr OB1)		WNO A	8.85V, +0.06, 13.3"
EF Dra	10.48									
DQ Her	14.49	+0.06	-0.79	+0.13	0.10 u				Kui 85	
V3903 Sgr	7.28	+0.12	-0.83		0.43		Cr 367			
V815 Her	7.66	+0.72	+0.13		0.05					
PR Her	14.0 p				0.07 m					
V631 Her	16.2 p									
V954 Oph	14.3 p						Cr 359?			
V839 Oph	8.8	+0.60	+0.12		0.07		(Mel 186)			
UZ Ser	12.66	+0.16	-0.57	+0.18	0.35 u					
HD 166734	8.42	+1.09	-0.12		1.41		Ser OB2			
V1830 Sgr	12.56	+0.01	-0.78		0.09					
mu Sgr	3.80	+0.23	-0.49	+0.20	0.30 u	0.012		11169 A	H V 7 A; bet 292 A;	10.48, 16.9"; 13.0, 25.2"; 9.69, 48.5
V2509 Sgr	7.35	+0.09								
V963 Oph	14.6 p						Cr 359?			
V2323 Sgr	13.1 p				0.17 m					
V533 Her	15.60	+0.18	-0.84		0.00 u					
NSV 10469	16.4 p									
HR 6849	6.37	+0.34	+0.02		0.01			11213 A	bet 1274 A	9.8, 95.6"
TZ Lyr	10.87				0.06			11219 A	Es 1651 A	
RS Sgr	6.01	-0.11	-0.60		0.06				h 5036 A	9.65, 39.0"; 8.8, 94.1"
HR 6841	6.54	+0.11	-0.84		0.42		Sgr OB4		Rst 3170 A	13.1, 8.4"
V1961 Sgr	12.2 p				0.09 m					
AM Her	12.7 v	+0.74	-0.66	+0.37	0.0 u	0.0092				
TZ CrA	10.66	+0.25								

Name	V	B-V	U-B	R-I	E(B-V)	par	Cluster	ADS	Vis Binary	Companions
MY Ser	7.36	+0.75	-0.34	+0.53			NGC 6604			O8Ib(f)p, unresolved
GM Sgr	13.48	+0.37	+0.26		0.17 m					
CV Ser	9.48	+0.48	-0.23		0.88		Ser OB2			
108 Her	5.63	+0.21	+0.03	+0.11	0.00	0.013				
V391 Lyr	14.0 p				0.08 m					
Sgr X-4					0.29		NGC 6624			
TZ Dra	9.6 p									
PSR 1820-11										
phi Dra	4.22 D	-0.10	-0.33	-0.10	0.00	0.012		11311 A	OSig 353 A (orb)	6.1, 0.2"
W Sct	9.92	+0.74	-0.05							
RZ Dra	10.0 p									
V4019 Sgr	13.0 p				0.17 m					
V430 Sct	6.61	+0.94	-0.18	+0.04C	1.17		Sct OB3?			
RY Sct	9.12	+1.10	-0.08		1.43		(Ser OB2)			
V3941 Sgr	11.5 p				0.09 m					
RZ Sct	7.34	+0.62	-0.10		0.91		(Ser OB2)			
HR 6917	5.83	+0.06	+0.09	+0.04	0.00		UMa			
EQ Sct	11.7 p						NGC 6631?			
d Ser	5.21	+0.50	+0.21	+0.38	0.15	0.016		11353 Ab	Sig 2316 Ab	G0III A(a), close triple; 7/6. F5V, 3.8
V391 Sct	13.5 I				0.17 m					
V2349 Sgr	8.62	+0.14	-0.73				Ser OB1			
HR 6928	5.73	-0.03	-0.35		0.02		NGC 6633?		CHARA 71	
BE Dra	11.3 p									
V451 Oph	7.87	+0.08	-0.07		0.13					
V3454 Sgr	15.41 v									
60 Ser	5.39	+0.96	+0.76	+0.48		0.013				
del1 Tel	4.96	-0.11	-0.42		0.02					
del2 Tel	5.07	-0.14	-0.56		0.04		Sco-Cen?			
RX Her	7.268	+0.06	-0.02		0.08	0.009				
PSR 1829-10										
V4066 Sgr	11.0 p									
V634 CrA	13.4 p									
PSR 1831-00										
CH Her	13.5 p				0.09 m					
BY Dra	8.41	+1.221	+1.00	+0.78		0.064				

Name	V	B-V	U-B	R-I	E(B-V)	par	Cluster	ADS	Vis Binary	Companions
BP CrA	14.13	+0.08	-0.79		0.05					
LL Lyr	12.8 p				0.07 m					
AB Tel	12.20	+0.73								
V681 CrA	7.75	+0.01								
V3863 Sgr	11.7 p									
BD Pav	12.4									
BF Pav	11.99	+0.85								
V1331 Aql	7.41	+0.62	-0.24							
46 Dra	5.04	-0.09	-0.30		0.00	0.011			H VI 37 A	10.6, 146.8"
NSV 11280	10.4: p				0.00 m					
V2038 Sgr	14.0 p				0.19 m					
FG Sct	12.60	+1.06		+0.57						
HR 7038	6.36	+0.45								
NSV 11297	13. p				0.09 m					
AY Lyr	12.3	-0.04	-0.81		0.00 u		Isk 1			
zet1 Lyr	4.36	+0.19	+0.16	+0.08	0.00	0.031	(Isk 1)	11639 A	bet 968 A; Sig I 38	5.73, F0IV, 43.7"
5 Aql	5.90	+0.13	+0.12	+0.07	0.01	D0.009		11667 A	Sig 2379 A	7.5, F1Vm, 12.8"
N Her 1991	20.6 B									
V356 Sgr	6.84	+0.10								
AQ Tel	13.4 p									
HD 173886	8.7									
CX Dra	5.88	-0.09	-0.73		0.10					
HD 174343/44	7.18					0.017				
V603 Aql	11.63	-0.06	-0.90		0.07 u			11698 A	bet 971 A	
RS Sct	9.78	(B-V)0= +0.386								
AV Tel	14.1 p									
HR 7091	6.74	+0.08	+0.07						CHARA 79	
50 Dra	5.35	+0.05	+0.04		0.00	0.008				
bet Lyr	3.34	+0.01	-0.56	+0.02		-0.003	Isk 1	11745 A	Sig 39 A; bet 293 A	8.6, B7V, 45.7"; 9.9v, 67"; 9.9v, 86"
HD 174664	7.23	-0.08	-0.48		0.00		Isk 1	11745 B	Sig 39 B	
HS Her	8.50	+0.03	-0.42							
PZ Tel	8.50	+0.75				0.0143				
CI Aql	11. p				0.68 m					
V822 Her	6.14	-0.036	-0.299							
112 Her	5.48	-0.07	-0.42		0.00	0.007			CHARA 80	

Name	V	B-V	U-B	R-I	E(B-V)	par	Cluster	ADS	Vis Binary	Companions
CY Lyr	13.2 v				0.15 u					
DI Her	8.24	+0.015	-0.495		0.17					
V1223 Sgr	12.27	+0.05	-0.76	+0.08	0.15 u					
del1 Lyr	5.58	-0.15	-0.66				<Sn>		H VI 3 A	del m=3.7, 174.6"
V1182 Aql	8.585	+0.59	-0.45				Sct OB2?			
V1341 Aql	13.0 p									
HD 175544	7.35	+0.10	-0.64		0.30					
V775 Her	8.067	+0.91	+0.55:	+0.54		0.041				
PSR 1855+09	>25.4				0.5	0.0012				
eps CrA	4.74	+0.41	+0.03		0.00	0.032				
HR 7174	5.89	-0.17	-0.52		0.00		Isk 1			
DM Lyr	13.6 p				0.18 m					
V803 Aql	14.0 p									
HR 7200	6.69	+0.02	-0.69		0.23					
V599 Aql	6.64	+0.22	-0.42		0.42 u					

Name	Vbl type	Min I	Min II	D	d	i	r1	r2	I1	qph
V820 Her	Unique					25.32 s	0.11 ome	0.11 ome		
V986 Oph	Unique					54.47 pi				
HD 165052						22.60 s	0.86 ome			
PSR 1802-07										
V1276 Sgr	EW/KW	14.6 p	14.3 p			80.5	0.355	0.295	0.76 p	0.84
FS CrA	EW/KW	15.66 B	15.55 B			86.5	0.366	0.415	0.489 B	1.32
V772 Her Aab	E	7.12				76.2	0.195	0.123	0.950 V	
V772 Her AB	E					82.7	0.038: ome	0.009 ome	0.62* s	
40 Dra	-					46.65 s	< =0.17 ome			
V426 Oph	NL	13.4 B				53.46 p				
V3792 Sgr	EB/DM	6.88	6.81			84.	0.340	0.243	0.69 V	0.88
EF Dra	EW/KW	(0.34)	(0.31)			80:	0.609:	0.246:	0.860: V	0.1
DQ Her	NB+EA	18.08		[0.11]		89.		0.302 ome		
V3903 Sgr	INA:					~70.	0.327 ome	0.319 ome	0.65 B s	
V815 Her	RS					58.84 pi				
PR Her	UG	18.5 p				57.63 pi				
V631 Her	UG	>21. p								
V954 Oph	EW:/KW	14.9 p	14.9 p			77.5	0.40	0.31	0.61 p	0.76
V839 Oph	EW/KW	9.39	9.38			79.5	0.421	0.324	0.603	0.590
UZ Ser	UGSS	15.57								
HD 166734						53.73 s	0.127 ome			
V1830 Sgr	UG	14.5 p				57.63 pi				
mu Sgr	EA+ACYG	3.88		0.11					0.91 V s	
V2509 Sgr	EB/KE	7.71	7.50			77.5	0.475	0.285	0.93 V	0.35
V963 Oph	EW/KW	15.1 p				73.5	0.41	0.31	0.62 p	0.70
V2323 Sgr	UG:	16.5 p				57.63 pi				
V533 Her	NA									
NSV 10469	EW:	>16.6 p								
HR 6849						64.30 s	0.256 ome	0.233 ome		
TZ Lyr	EB/D	11.85	11.05			77.20	0.371	0.360	0.7301 y*	0.812
RS Sgr	EA/SD	6.97	6.28	0.17		82.5	0.322	0.258	0.855 p	
HR 6841						22.50 s	0.391: ome			
V1961 Sgr	EA	13.8 p				79.89 pi				
AM Her	AM+XR+E	15.2 v				52				
TZ CrA	EA/SD	11.39	10.78	0.20		77.28	0.343	0.300	0.9417 V	0.4996

Name	Vbl type	Min I	Min II	D	d	i	r1	r2	I1	qph
MY Ser	EB	7.65	7.62			73.48	0.366	0.336	0.380*	0.6000
GM Sgr	NL:	(0.5 B)	(0.2 B)			57.63 pi				
CV Ser	E/D/WR	9.69				67.				
108 Her						58.68 s	0.13 ome	0.13 ome	0.67 s	
V391 Lyr	UGZ	17.0 p				57.63 pi				
Sgr X-4						57.63 pi				
TZ Dra	EA/SD	10.5 p		0.20		79.5	0.354	0.285	0.97 p	0.35
PSR 1820-11										
phi Dra	ACV					57.85 pi				
W Sct	EA/DM	10.57	10.1	0.12		77.8	0.313	0.313	0.790 p	
RZ Dra	EB/SD:	10.9 p	10.4 p			78.67	0.407	0.342	0.908 V	0.664
V4019 Sgr	NL:	15.0 p				57.63 pi				
V430 Sct	ACYG									
RY Sct	EB/GS	9.72	9.56			72.86	0.4022	0.4245	0.559 y	
V3941 Sgr	UG:	>14. p				57.63 pi				
RZ Sct	EA/GS	8.84	7.47	0.17	0.000	83.10	0.2180	0.2729	0.8991 V	0.277
HR 6917						25.85 s				
EQ Sct	EB/KE:	12.6 p	12.6: p			85.5	0.385	0.365	0.55 p	0.90
d Ser	I:					46.34 s	1.42 ome			
V391 Sct	UG:	17.0 I				57.63 pi				
V2349 Sgr	EA/D	9.4 B	9.2 B	0.12; 0.08:		87.5	0.203	0.155	0.71 p	0.68
HR 6928						51.02 pi				
BE Dra	EB/KE	11.8 p	11.5 p			74.	0.490	0.272	0.94 p	0.30
V451 Oph	EA/DM	8.40	8.29	0.12; 0.12	0.000	85.9	0.215	0.165	0.672 V	
V3454 Sgr	E	16.45 v								
60 Ser										
del1 Tel										
del2 Tel						77.24 pi				
RX Her	EA/DM	(0.63 p)	(0.51 p)	0.14	0.021	55.74 pi				
PSR 1829-10						85.262	0.2320	0.1924	0.6241 V	
V4066 Sgr	EA	11.8 p		0.15	~0.07					
V634 CrA	EW/KW	13.9 p	13.9 p			74.	0.424	0.295	0.66 p	0.59
PSR 1831-00										
CH Her	UG	17: p				57.63 pi				
BY Dra	BY+UV					26.84 s	0.056 ome	0.081 ome		

Name	Vbl type	Min I	Min II	D	d	i	r1	r2	ll	qph
BP CrA	UGZ:	16.19				57.63 pi				
LL Lyr	UG	17.1 p				57.63 pi				
AB Tel	EW/KW	12.92	12.83			81.	0.422	0.310	0.62 V	0.60
V681 CrA	EA/DM	(0.5 p)				75.	0.218	0.277	0.86 p	0.32
V3863 Sgr	EW/KW	12.5 p								
BD Pav	UG: + EW/WD	15.42		[0.05]				(0.216 ome)		
BF Pav	EW/KW	11.90	11.9			85.	0.426	0.292	0.67 V	0.58
V1331 Aql	EB/KE:	7.75	7.60			70.259	0.370	0.283	0.733 V*	0.63
46 Dra	ACV:					18.52 s	< =0.08 ome	< =0.08 ome	0.57 s	
NSV 11280	UG:	> 13. p				57.63 pi				
V2038 Sgr	UG:	16.2 p				57.63 pi				
FG Sct	EW/KW	14.76 B	14.70 B			89.9	0.364	0.406	0.497 B	1.273
HR 7038										
NSV 11297	UG:	> 14. v				57.63 pi				
AY Lyr	UGSU	18.4 B				57.63 pi				
zet1 Lyr	-					61.68 pi				
5 Aql						15.10 s	< =0.52 ome	< =0.52 ome		
N Her 1991										
V356 Sgr	EA/DS:	7.66	7.24	0.12; 0.20:	0.05:	86.6	0.140	0.298	0.483 V	
AQ Tel	EW/KW	13.8 p								
HD 173886										
CX Dra	GCAS + ELL					53.54 pi				
HD 174343/44										
V603 Aql	NA/E + X					15.69 w				
RS Sct	EB/SD	10.91	10.08			87.32	0.3789	0.1133	0.896 V	0.774
AV Tel	E/KW:	15.1 p								
HR 7091										
50 Dra										
bet Lyr	EB	4.34				48.65 s	0.35 ome			
HD 174664						81.*	0.270	0.108*	0.685 V	
						51.97 pi				
HS Her	EA/DM	8.97	8.63	0.12	0.025	88.51	0.251	0.141	0.935 V	
PZ Tel	RS									
CI Aql	N:	15.5 p								
V822 Her	EB/KE	(0.15)	(0.15)			57.63 pi				
112 Her						68.25	0.2803	0.2664	0.510 V*	
						14.19 s	0.22 ome			

Name	Vbl type	Min I	Min II	D	d	i	r1	r2	ll	qph
CY Lyr	UGSS	17.42				57.63 pi				
DI Her	EA/DM	9.11	8.95	0.04; 0.03		89.30	0.0621	0.0574	0.586 V	
V1223 Sgr	XPR									
del1 Lyr	-									
V1182 Aql	EB/KE:	8.74	8.74			63.84	0.434	0.215	0.875 y	
V1341 Aql	EW/KW:	13.7 p	13.4 p			80.	0.424	0.294	0.56 p	0.59
HD 175544						56.47 s	0.485 ome		0.61 s	
V775 Her	RS					42.09 s				
PSR 1855 + 09						88.28				
eps CrA	EW	5.00	4.95			72.28	0.580	0.224	0.8992 V	0.113
HR 7174										
DM Lyr	UG	18. p				58.86 pi				
V803 Aql	EW/KW	15.0 p	14.8 p			57.63 pi				
HR 7200	-									
V599 Aql	EB/KE:	6.75	6.73			68.27 pi				
						46.73	0.535	0.366	0.695	

Name	Photometric solution
V820 Her	
V986 Oph	
HD 165052	
PSR 1802-07	
V1276 Sgr	Svechnikov, M.A., Kuznetsova, E.F. 1990, Katalog Priblizhennykh Fotometricheskikh i Absolyutnykh Elementov Zatmennykh Peremennykh Zvez
FS CrA	Bradstreet, D.H. 1985, ApJ Suppl., 58, 413
V772 Her Aab	Reglero, V., Fernández-Figueroa, M.J., Giménez, A., De Castro, E., Fabregat, J., Cornide, M., Armentia, J.É. 1991, AAp Sup, 88, 545
V772 Her AB	Batten, A.H., Morbey, C.L., Fekel, F.C., Tomkin, J. 1979, PASP, 91, 304
40 Dra	
V426 Oph	
V3792 Sgr	Svechnikov, M.A., Kuznetsova, E.F. 1990, Katalog Priblizhennykh Fotometricheskikh i Absolyutnykh Elementov Zatmennykh Peremennykh Zvez
EF Dra	Robb, R.M., Scarfe, C.D. 1989, IBVS 3370
DQ Her	Petterson, J.A. 1980, ApJ, 241, 247
V3903 Sgr	de Laurenti, M.A., Cerruti, M.A. 1990, IBVS 3463
V815 Her	(Mekkadan, M.V., Raveendran, A.V., Mohlin, S. 1980, IBVS 1791)
PR Her	
V631 Her	
V954 Oph	Svechnikov, M.A., Kuznetsova, E.F. 1990, Katalog Priblizhennykh Fotometricheskikh i Absolyutnykh Elementov Zatmennykh Peremennykh Zvez
V839 Oph	Lafta, S.J., Grainger, J.F. 1985, ApSpSci, 114, 23
UZ Ser	
HD 166734	
V1830 Sgr	
mu Sgr	
V2509 Sgr	Svechnikov, M.A., Kuznetsova, E.F. 1990, Katalog Priblizhennykh Fotometricheskikh i Absolyutnykh Elementov Zatmennykh Peremennykh Zvez
V963 Oph	Svechnikov, M.A., Kuznetsova, E.F. 1990, Katalog Priblizhennykh Fotometricheskikh i Absolyutnykh Elementov Zatmennykh Peremennykh Zvez
V2323 Sgr	
V533 Her	
NSV 10469	
HR 6849	
TZ Lyr	Kaluzny, J. 1985, Acta Astr., 35, 327
RS Sgr	Baglow, R.L. 1948, MN, 108, 343
HR 6841	
V1961 Sgr	
AM Her	Wickramasinghe, D.T., Bailey, J., Meggitt, S.M.A., Ferrario, L., Hough, J., Tuohy, I.R. 1991, MN, 251, 28
TZ CrA	Wilson, R.E., Rafert, J.B. 1980, AAp Suppl., 42, 195

Name	Photometric solution
MY Ser	Davidge, T.J., Forbes, D. 1988, MN, 235, 797
GM Sgr	(Goranskij, V.P. 1990, IBVS 3464)
CV Ser	Lipunova, N.A. 1982, Pis'ma AZh, 8, 242 (1983, Sov. Astr. Lett., 8, 128)
108 Her	
V391 Lyr	
Sgr X-4	
TZ Dra	Svechnikov, M.A., Kuznetsova, E.F. 1990, Katalog Priblizhennykh Fotometricheskikh i Absolyutnykh Elementov Zatmennykh Peremennykh Zvez
PSR 1820-11	
phi Dra	
W Sct	Gaposchkin, S. 1932, Veröff. Univ.-Sternw. Berlin-Babelsberg, 9, pt. V
RZ Dra	Leung, K.-C., Zhai, D.-S., Huang, Y.-L. 1982, Acta Ap. Sin., 2, 144 (1982, Chin. AAp, 6, 199)
V4019 Sgr	
V430 Sct	(Bartolini, C., Scardovi, S. 1975, IBVS 963)
RY Sct	Milano, L., et al. 1981, AAp, 100, 59
V3941 Sgr	
RZ Sct	Wilson, R.E., Van Hamme, W., Petlera, L.E. 1985, ApJ, 289, 748
HR 6917	
EQ Sct	Svechnikov, M.A., Kuznetsova, E.F. 1990, Katalog Priblizhennykh Fotometricheskikh i Absolyutnykh Elementov Zatmennykh Peremennykh Zvez
d Ser	
V391 Sct	
V2349 Sgr	Svechnikov, M.A., Kuznetsova, E.F. 1990, Katalog Priblizhennykh Fotometricheskikh i Absolyutnykh Elementov Zatmennykh Peremennykh Zvez
HR 6928	
BE Dra	Svechnikov, M.A., Kuznetsova, E.F. 1990, Katalog Priblizhennykh Fotometricheskikh i Absolyutnykh Elementov Zatmennykh Peremennykh Zvez
V451 Oph	Clausen, J.V., Giménez, A., Scarfe, C. 1986, Astr. Ap., 167, 287
V3454 Sgr	
60 Ser	
del1 Tel	
del2 Tel	
RX Her	Jeffreys, K.W. 1980, AAp Suppl., 42, 285
PSR 1829-10	
V4066 Sgr	(Schwarzmann, A. 1980, IBVS 1836)
V634 CrA	Svechnikov, M.A., Kuznetsova, E.F. 1990, Katalog Priblizhennykh Fotometricheskikh i Absolyutnykh Elementov Zatmennykh Peremennykh Zvez
PSR 1831-00	
CH Her	
BY Dra	

Name	Photometric solution
BP CrA	
LL Lyr	
AB Tel	Svechnikov, M.A., Kuznetsova, E.F. 1990, Katalog Priblizhennykh Fotometricheskikh i Absolyutnykh Elementov Zatmennykh Peremennykh Zvez
V681 CrA	Svechnikov, M.A., Kuznetsova, E.F. 1990, Katalog Priblizhennykh Fotometricheskikh i Absolyutnykh Elementov Zatmennykh Peremennykh Zvez
V3863 Sgr	
BD Pav	(Barwig, H., Schoembs, R. 1983, AAp, 124, 287)
BF Pav	Svechnikov, M.A., Kuznetsova, E.F. 1990, Katalog Priblizhennykh Fotometricheskikh i Absolyutnykh Elementov Zatmennykh Peremennykh Zvez
V1331 Aql	Lorenz, R., Drechsel, H., Mayer, P. 1991, IBVS 3599
46 Dra	
NSV 11280	
V2038 Sgr	
FG Sct	Bradstreet, D.H. 1985, ApJ Suppl., 58, 413
HR 7038	
NSV 11297	
AY Lyr	
zet1 Lyr	
5 Aql	
N Her 1991	
V356 Sgr	Wilson, R.E., Caldwell, C.N. 1978, ApJ, 221, 917
AQ Tel	
HD 173886	
CX Dra	(Koubsky, P., Harmanec, P., Horn, J., Jerzykiewicz, M., Kríz, S., Papousek, J., Pavlovski, K., Zdárský, F. 1980, BAC, 31, 75)
HD 174343/44	
V603 Aql	
RS Sct	Buckley, D.A.H. 1984, ApSpSci, 99, 191
AV Tel	
HR 7091	
50 Dra	
bet Lyr	Hubeny, I., Plavec, M.J. 1991, AJ, 102, 1156
HD 174664	
HS Her	Martynov, D.Ya., Voloshina, I.B., Khaliullina, A.I. 1988, AZh, 65, 1225 (1989 Sov. AJ, 32, 638)
PZ Tel	
CI Aql	
V822 Her	Hube, D.P., Martin, B.E. 1991, AJ, 102, 1777
112 Her	

Name	Photometric solution
CY Lyr	
DI Her	Popper, D.M. 1982, ApJ, 254, 203
V1223 Sgr	
del1 Lyr	
V1182 Aql	Terrell, D. 1991, MN, 250, 209
V1341 Aql	Svechnikov, M.A., Kuznetsova, E.F. 1990, Katalog Priblizhennykh Fotometricheskikh i Absolyutnykh Elementov Zatmennykh Peremennykh Zvez
HD 175544	
V775 Her	(Akan, M.C. 1990, ApSpSci, 169, 159)
PSR 1855+09	Ryba, M.F., Taylor, J.H. 1991, ApJ, 371, 739
eps CrA	Twigg, L.W. 1979, MN, 189, 907
HR 7174	
DM Lyr	
V803 Aql	(Su, W., Samec, R.G. 1991, IBVS 3638)
HR 7200	
V599 Aql	Magalashvili, N.L., Kumsishvili, Ya.I. 1966, Byull. Abastumani Ap. Obs., no. 34, p. 1

Name	M1	M2	A	R1	R2	T1	T2	log L1	log L2	Distance	U	V	W
V820 Her	7.58 s	7.59 s								387. s			
V986 Oph	20.65 s	2.34 pi								1080. s			
HD 165052	44.16 s	38.64								2020. s			
PSR 1802-07										3130. g			
V1276 Sgr													
FS CrA													
V772 Her Aab										45.0 spi			
V772 Her AB	1.63	0.88											
40 Dra	1.19 s	1.07 s								37.0 s			
V426 Oph	1.10	0.86 p								158. k			
V3792 Sgr	6.51	4.66											
EF Dra													
DQ Her	0.68	0.43								485. n			
V3903 Sgr	23.01	16.27											
V815 Her	0.95 s	0.46 pi								30.4 s			
PR Her	0.71 p	0.28 p								628. p			
V631 Her													
V954 Oph													
V839 Oph	1.19 s'	0.70 phi								107. phi			
UZ Ser													
HD 166734	55.65 s	58.83 s								1980. s			
V1830 Sgr	0.53 p	0.154 p								275. p			
mu Sgr													
V2509 Sgr													
V963 Oph													
V2323 Sgr	0.71 p	0.28 p								316. p			
V533 Her										1320. n			
NSV 10469													
HR 6849	1.42 s	1.38 s								67.8 s			
TZ Lyr	1.20 s	0.98 phi								304. s			
RS Sgr	7.38	2.44								465. phi			
HR 6841	47.86 s	41.71								2070. s			
V1961 Sgr	0.89 p	0.64 p								149. p			
AM Her													
TZ CrA													

Name	M1	M2	A	R1	R2	T1	T2	log L1	log L2	Distance	U	V	W
MY Ser	20.05	10.78											
GM Sgr	0.89 p	0.55 p								277. p			
CV Ser	13.56	28.46								2000. g			
108 Her	1.74 s	1.49								98.0 s			
V391 Lyr	0.89 p	0.74 p								794. p			
Sgr X-4	1.41 s	0.063 p								8140. g			
TZ Dra													
PSR 1820-11													
phi Dra	2.45 s	0.91 pi								64.3 s			
W Sct													
RZ Dra	0.64	0.43											
V4019 Sgr	0.89 p	0.55 p								365. p			
V430 Sct	43.65 s									1090. s			
RY Sct	39.00	48.75								4290. phi			
V3941 Sgr	0.71 p	0.28 p								176. p			
RZ Sct	6.00	1.66								579. phi			
HR 6917	2.19 s	1.34 s								102. s			
EQ Sct													
d Ser	1.83 s	1.65 s								64.3 spi			
V391 Sct	0.71 p	0.28 p								523. p			
V2349 Sgr													
HR 6928	3.20 s	0.90 pi								173. s			
BE Dra													
V451 Oph	2.77	2.35								310. phi			
V3454 Sgr													
60 Ser													
del1 Tel	4.37 s	2.62 pi								164. s			
del2 Tel	8.71 s	2.75 pi								399. s			
RX Her	2.75	2.33								242. phi			
PSR 1829-10													
V4066 Sgr													
V634 CrA													
PSR 1831-00													
CH Her	0.71 p	0.28 p								478. p			
BY Dra	0.68 s	0.61 s								16.0 spi			

Name	M1	M2	A	R1	R2	T1	T2	log L1	log L2	Distance	U	V	W
BP CrA	0.89 p	0.69 p								895. p			
LL Lyr	0.71 p	0.28 p								361. p			
AB Tel													
V681 CrA													
V3863 Sgr													
BD Pav													
BF Pav													
V1331 Aql	12.88 s												
46 Dra	2.63 s	2.24 s								114. s			
NSV 11280	0.71 p	0.28 p								136. p			
V2038 Sgr	0.71 p	0.28 p								501. p			
FG Sct													
HR 7038													
NSV 11297	0.71 p	0.28 p								385. p			
AY Lyr	0.53 p	0.161 p											
zet1 Lyr	1.74 s	0.84 pi								31.9 spi			
5 Aql	2.00 s	1.12								111. pi			
N Her 1991													
V356 Sgr	4.68	12.18											
AQ Tel													
HD 173886													
CX Dra	8.22 s	1.83 pi								348. s			
HD 174343/44													
V603 Aql	0.87 w	0.39 p								330. n			
RS Sct	1.37	0.79											
AV Tel													
HR 7091													
50 Dra	2.25 s	2.12 s								100. s			
bet Lyr	3.09	13.18											
HD 174664	3.39 s	0.27 pi								306. s			
HS Her	5.62 s	1.73											
PZ Tel													
CI Aql	0.89 p	0.55 p								454. p			
V822 Her	3.28	3.28											
112 Her	4.68 s	2.27								286. spi			

Name	M1	M2	A	R1	R2	T1	T2	log L1	log L2	Distance	U	V	W
CY Lyr	0.53 p	0.21 p								120. k			
DI Her	5.17	4.52								696. phi			
V1223 Sgr													
del1 Lyr													
V1182 Aql	35.49	12.09											
V1341 Aql													
HD 175544	7.81 s	6.13 s								596. s			
V775 Her	0.85 s	0.65 s								26.8 spi			
PSR 1855+09	1.27	0.233								833. pi			
eps CrA	0.98	0.111								28.2 phi			
HR 7174	3.72 s	1.86 pi								209. s			
DM Lyr	0.71 p	0.28 p								427. p			
V803 Aql													
HR 7200	10.35 s	4.11 pi								608. s			
V599 Aql	11.76	7.92											

Name	Notes
V820 Her	(del B=0.02)
V986 Oph	bet C? (del V=0.05), Pph=0.303d, non-radial pulsator (J. Cuypers, L.A. Balona, F. Marang 1989, AAp Suppl., 81, 151); Pvr=0.179d, 0.147d,
HD 165052	
PSR 1802-07	DM=187+/-2
V1276 Sgr	Alternative lc soln: [G1]+(F0.5), i=74, r1=0.44, r2=0.28, l1=0.52p, q=0.48
FS CrA	
V772 Her Aab	*Pphtm=0.880d; M1+M2=1.63 Msun from vis. orb: P=20.081y, T=1978.438, a=0.253", e=0.956, i=77.0°, ome=3.0°, Ome=270.8°, B=0
V772 Her AB	*del m(lam 6430)=0.54; Vis. orb: P=20.081y, T=1978.438, a=0.253", e=0.956, i=77.0°, ome=3.0°, Ome=270.8°, B=0.347 (Heintz, W.D.
40 Dra	
V426 Oph	
V3792 Sgr	B3III+(B3V), i=81.5, r1=0.373, r2=0.228, l1=0.755V (lc: Knipe, G.F.G. 1974, MNASSA, 33, 14)
EF Dra	
DQ Her	vd sin i=800; t3=94d
V3903 Sgr	del B=0.69
V815 Her	*Pphtm=1.8d
PR Her	UG
V631 Her	
V954 Oph	const: V=12.86, B-V=+1.36?
V839 Oph	
UZ Ser	UG
HD 166734	
V1830 Sgr	UG
mu Sgr	del V~2.5
V2509 Sgr	Alternative lc soln: A0+(A7.5), i=73.5, r1=0.33, r2=0.29, l1=0.74V, q=0.37; A0IV+(A9IV), i=74.4, r1=0.410, r2=0.277, l1=0.827V (lc:
V963 Oph	
V2323 Sgr	UG:
V533 Her	t3=44d
NSV 10469	
HR 6849	
TZ Lyr	12.29, 2.54"; *l3=0.2130 y
RS Sgr	del m=1.97
HR 6841	
V1961 Sgr	
AM Her	K2=11,82; Twd=20000K
TZ CrA	

Name	Notes
MY Ser	*l3=0.3155
GM Sgr	NL:
CV Ser	(B-V)I=+0.72
108 Her	del m=0.78
V391 Lyr	UGZ
Sgr X-4	XPSR; *-8.0+/-1.4 x10-10E2
TZ Dra	
PSR 1820-11	DM=428.4; U>36000y
phi Dra	Var (del V=0.05:); *Prot=1.71646d; Vis. orb: P=271.7y, T=1720.75, a=0.392", e=0.44, i=118.96°, ome=201.25°, Ome=72.25° (Olevic,
W Sct	
RZ Dra	del m>2.5
V4019 Sgr	NL:
V430 Sct	alp Cyg:; not binary
RY Sct	
V3941 Sgr	UG:
RZ Sct	del m=2.27 V; (B-V)I=+0.66
HR 6917	
EQ Sct	
d Ser	
V391 Sct	UG:
V2349 Sgr	i=87.1, r1=0.168, r2=0.138, l1=0.670p (lc: Strohmeier, W. 1968, IBVS 262)
HR 6928	
BE Dra	
V451 Oph	del m=0.78V; U=180y
V3454 Sgr	
60 Ser	
del1 Tel	
del2 Tel	
RX Her	del m=0.39
PSR 1829-10	DM=475; Not binary: orbit retracted (Lyne, A.G., Bailes, M. 1992, Nature, 355, 213)
V4066 Sgr	
V634 CrA	
PSR 1831-00	DM=88.3
CH Her	UG
BY Dra	BY (8.07-8.48 V); *Pphtm=3.827d

Name	Notes
BP CrA	UGZ:
LL Lyr	UG
AB Tel	
V681 CrA	
V3863 Sgr	
BD Pav	
BF Pav	
V1331 Aql	reject (K1); *l3=0.0006 V
46 Dra	del m=0.29; *Prot=Porb
NSV 11280	UG:
V2038 Sgr	UG:
FG Sct	
HR 7038	
NSV 11297	UG:
AY Lyr	UGSU
zet1 Lyr	del Sct?
5 Aql	
N Her 1991	R(min)~18.25; t3=5.0+/-0.5d
V356 Sgr	
AQ Tel	
HD 173886	
CX Dra	Shell star (del V=0.10)
HD 174343/44	
V603 Aql	NA/E+X
RS Sct	
AV Tel	
HR 7091	
50 Dra	
bet Lyr	(B-V)I,II=+0.06,-0.02; * +3.8136 x 10-6 E2; *Soln with H=7.5 Rsun adopted for consistency with qsp; *rdisk=0.450
HD 174664	Not binary (Abt, Levy 1976, AJ, 81, 659)
HS Her	del m=2.65V; (B-V)I=+0.02; U=130y
PZ Tel	RS (del V=0.27); not a binary
CI Aql	N:(?); Not a CV, or wrong star marked in D87 (Szkody, P., Howell, S.B. 1992, ApJ Sup, 78, 537)
V822 Her	*l3=0.030 V
112 Her	

Name	Notes
CY Lyr	
DI Her	del m=0.14; U~36000y
V1223 Sgr	
del1 Lyr	
V1182 Aql	del m=2.16
V1341 Aql	P=0.3586768d possible
HD 175544	del m=0.50
V775 Her	*Pphtm=2.898d
PSR 1855+09	DM=13.306
eps CrA	
HR 7174	U=137y
DM Lyr	UG
V803 Aql	
HR 7200	
V599 Aql	del m=1.33 bol, T1=19000+/-1000, T2=15500+/-1000

Name	RA(1950)	μ(RA)	Dec(1950)	μ(Dec)	Pos Ref	FK4	SRS	AGK3	SAO	GC	l	b
V1402 Aql	19 01 20.36		-04 23 32.7		AC						030.51	-04.75
V337 Aql	19 01 34.079	+0.07	-02 06 18.37	-1.6	AGK3			-2°1115	142979		032.57	-03.76
HD 177624	19 02 45.622	+0.04	+09 33 55.90	-1.2	AGK3			+9°2381	124246	26257	043.07	+01.37
BH Dra	19 02 46.279	-0.14	+57 22 52.44	-0.6	AGK3			+57°1221			087.80	+21.03
HD 177559	19 03 01.336	+0.30	-19 33 31.11	+1.3	SAO				162180		016.94	-11.85
V805 Aql	19 03 31.107	+0.44	-11 43 35.61	-2.5	SAO				162189		024.16	-08.54
HD 177762	19 03 49.111	+0.09	-17 10 56.30	+0.7	SAO				162196		019.22	-11.00
V525 Sgr	19 04 02.445	+0.26	-30 14 19.32	+4.1	SAO				210944		006.96	-16.37
DG Dra	19 04 08.645	+0.18	+57 02 50.63	+6.0	AGK3			+57°1223	031377		087.52	+20.75
Y Aql	19 04 37.292	-0.066	+10 59 34.00	-3.50	FK4Sup	3525	44106	+10°2356	104488	26315	044.55	+01.63
HR 7258	19 04 39.741	+0.082	+41 20 07.47	+0.28	FK4Sup	3526		+41°1664	048084	26318	072.15	+14.98
17 Lyr	19 05 31.990	+0.98	+32 25 18.48	+1.9	Per70		44110		067835	26340	063.91	+11.11
V478 Lyr	19 05 35.458	+0.78	+30 10 23.75	+11.7	AGK3			+30°1818	067836		061.85	+10.13
MV Lyr	19 05 44.34		+43 56 20.7								074.72	+15.82
V1089 Sgr	19 05 53.		-17 26 42.		GCVS						019.19	-11.54
HD 178661	19 06 05.367	-0.03	+38 50 52.85	-1.0	AGK3			+38°1792	067846	26361	069.92	+13.72
HR 7267	19 06 25.899	-0.132	+16 46 18.21	-10.96	FK4Sup	3529	44114	+16°1917	104524	26374	049.88	+03.91
HR 7257	19 06 26.482	+0.06	-41 58 25.53	-2.1	Per70		44115		229531	26375	355.55	-20.98
X1907+690	19 07 20.1		+69 03 30.								100.08	+23.86
QR Sge	19 09 16.46		+16 46 36.0		AC						050.20	+03.31
V1343 Aql	19 09 21.282		+04 53 54.27								039.69	-02.24
FL Lyr	19 10 37.590	+0.09	+46 14 17.65	+4.8	AGK3			+46°1431	048190		077.27	+15.93
V352 Aql	19 11 07.		+02 13		GCVS						037.52	-03.88
V1315 Aql	19 11 35.		+12 12 37.								046.42	+00.69
eta Lyr	19 12 03.285	-0.14	+39 03 32.22	+0.4	AGK3			+39°1911	068010	26507	070.62	+12.75
psi Sgr	19 12 28.524	+0.32	-25 20 40.36	-3.0	Per70		44132		187882	26516	012.42	-16.20
PSR 1913+16	19 13 12.4685		+16 01 08.163								049.97	+02.12
HR 7305B	19 13 55.995	-0.05	+27 21 59.40	+1.4	AGK3			+27°1916	087005	26560	060.14	+07.23
1 Vul	19 14 03.958	-0.07	+21 18 03.00	-0.3	FK4Sup		44140	+21°1949	087010	26569	054.74	+04.41
FO Aql	19 14 04.46	+0.04	+00 02 13.3	-0.9	(Sz85)						035.93	-05.55
V431 Sgr	19 15 30.		-33 30 24.		GCVS						004.71	-19.84
RS Vul	19 15 32.192	+0.03	+22 20 59.99	-2.2	AGK3			+22°1929	087035	26611	055.83	+04.60
HD 181144	19 16 30.078	-0.26	+16 23 45.50	-1.8	AGK3			+16°1950	104707	26637	050.67	+01.60
U Sge	19 16 37.017	+0.06	+19 31 04.26	+1.8	AGK3			+19°1860	104711	26639	053.44	+03.05
HR 7338	19 17 15.486	+0.09	+37 21 07.30	+1.8	SAO			+37°1769	068129	26650	069.49	+11.09

Name	RA(1950)	μ(RA)	Dec(1950)	μ(Dec)	Pos Ref	FK4	SRS	AGK3	SAO	GC	l	b
26 Aql	19 17 52.724	+0.760	-05 30 38.73	+4.66	FK4Sup	3544	44150		143286	26669	031.39	-08.93
ups Sgr	19 18 51.834	+0.002	-16 03 01.82	-0.61	FK4	727	30727		162518	26697	021.84	-13.78
GD 219	19 19 23.	+0.01	+14 34 54.	-8.8							049.40	+00.13
Z Vul	19 19 35.300	-0.01	+25 28 44.08	+1.5	AGK3			+25°2098	087113		059.04	+05.24
V4138 Sgr	19 19 42.783	-0.02	-20 44 16.77	-9.4	SAO				188043	26722	017.51	-15.90
V753 Cyg	19 21 23.12		+48 06 18.6		PI77						079.81	+15.01
V1113 Cyg	19 21 30.265		+52 38 08.10		BFW87						084.11	+16.84
2 Sge	19 22 07.267	-0.02	+16 50 20.28	-1.7	AGK3			+16°1961	104797	26784	051.70	+00.63
DH Aql	19 23 27.		-10 21 24.		GCVS						027.61	-12.33
PW Vul	19 24 03.442		+27 15 54.50								061.10	+05.20
V1741 Cyg	19 24 20.981	+0.002	+36 12 59.47	+1.36	FK4Sup	3554		+36°1801	068301	26846	069.11	+09.31
V1918 Cyg	19 24 55.820		+52 20 47.70		AC						084.06	+16.24
V859 Cyg	19 25 13.37		+28 50 43.1		AC						062.62	+05.72
PR Tel	19 25 46.		-52 26 18.		GCVS						345.40	-26.82
TT Lyr	19 25 57.738	+0.02	+41 35 55.19	-0.5	AGK3			+41°1729	048466		074.13	+11.48
V1504 Cyg	19 27 20.		+42 59 24.		GCVS						075.52	+11.87
V822 Aql	19 28 39.676	+0.05	-02 12 59.60	-0.5	AGK3			-2°1143	143494	26951	035.61	-09.82
WY Sge	19 30 29.70		+17 38 24.5		D87						053.37	-00.74
V4089 Sgr	19 30 42.947	+0.085	-40 08 37.91	+0.39	FK4Sup	3560	44202		229746	27006	358.92	-24.81
KX Aql	19 31 36.		+14 11 06.		GCVS						050.48	-02.65
HN Cyg	19 31 40.070		+28 49 41.45		BFW87						063.28	+04.46
V795 Cyg	19 32 37.875		+31 25 34.25		BFW87						065.67	+05.54
V417 Aql	19 32 56.560	-0.06	+05 43 38.20	-1.9	AGK3			+5°2760	124824		043.21	-07.03
51 Sgr	19 32 59.586	+0.01	-24 49 48.90	-3.7	Per70		15595		188326	27067	014.79	-20.30
NSV 12245	19 36 20.300		+35 44 34.78		AC						069.85	+06.95
V1289 Aql	19 36 24.		+12 09 06.		GCVS						049.27	-04.67
EM Cyg	19 36 42.040		+30 23 33.00		BFW87						065.19	+04.28
sig Aql	19 36 43.539	-0.02	+05 16 56.69	-0.2	Per70		44226	+5°2775	124903	27185	043.27	-08.07
V1143 Cyg	19 37 33.728	+0.414	+54 51 21.44	+16.64	FK4Sup	3571		+54°1246	031850	27206	087.25	+15.59
QS Aql	19 38 46.581	-0.014	+13 41 53.48	-1.69	FK4Sup	3574	44233	+13°1968	105132	27235	050.91	-04.41
FY Vul	19 39 30.		+21 38 48.		GCVS						057.90	-00.61
V1285 Cyg	19 42 59.36		+35 52 15.4								070.62	+05.84
LT Pav	19 43 07.68		-71 08 59.8		LG90						324.31	-30.18
V3885 Sgr	19 44 12.64	+0.18	-42 07 51.5	-3.7	(AC)						357.48	-27.76
QY Vul	19 44 14.46		+28 08 54.7		AC						064.05	+01.73

Name	RA(1950)	μ(RA)	Dec(1950)	μ(Dec)	Pos Ref	FK4	SRS	AGK3	SAO	GC	l	b
OO Aql	19 45 48.361	+0.49	+09 11 01.76	-0.2	AGK3			+9°2585	125084		047.82	-08.14
V688 Aql	19 46 11.83		+15 29 44.8		AC						053.37	-05.07
QT Sge	19 46 17.99		+18 04 31.0		AC						055.62	-03.79
V811 Cyg	19 46 31.645		+36 19 03.55		BFW87						071.37	+05.44
V1765 Cyg	19 46 56.044	-0.02	+33 18 40.04	-0.7	AGK3			+33°1838	068895	27433	068.81	+03.85
V1339 Aql	19 47 51.889	+0.13	+07 46 29.79	-2.7	AGK3		44258	+7°2766	125116	27458	046.83	-09.28
V542 Cyg	19 48 13.695		+58 24 21.60		BFW87						091.21	+15.82
HO Tel	19 48 21.623	-0.28	-46 59 23.70	-1.3	SAO				229902	27472	352.22	-29.45
V380 Cyg	19 48 54.286	+0.024	+40 28 17.88	+0.15	FK4Sup	3584		+40°1912	048892	27492	075.22	+07.13
12 Vul	19 48 54.847	+0.168	+22 28 53.89	-1.94	FK4Sup	3585	44265	+22°2038	087813	27493	059.72	-02.07
EV Vul	19 49 30.7		+23 45 30.		LS						060.89	-01.53
NU Cyg	19 49 52.		+38 59 30.		GCVS						074.02	+06.23
DO Vul	19 49 58.		+19 26 54.		GCVS						057.24	-03.83
V505 Sgr	19 50 17.153	-0.05	-14 43 57.84	-4.2	SAO				163080	27525	026.38	-20.12
HR 7589	19 50 28.606	-0.022	+46 53 51.46	+0.94	FK4Sup	3588		+46°1531	048917	27529	080.99	+10.09
AB Dra	19 51 04.475	-1.68	+77 36 40.59	-1.6	(BFW87)						109.98	+23.49
HR 7578	19 51 18.212	-0.99	-24 04 00.88	-41.5	Per70		44271		188692	27542	017.18	-23.91
V1454 Cyg	19 51 46.170		+35 13 51.15		BFW87						070.94	+03.95
AT Vul	19 51 50.368	+0.04	+23 25 58.09	-0.5	AGK3			+23°1982	087898		060.89	-02.15
SY Sge	19 52 39.05		+18 06 04.8		AC						056.41	-05.07
EY Cyg	19 52 44.103	+0.09	+32 13 58.61	-0.6	(BFW87)						068.50	+02.26
PSR 1953+29	19 53 26.7311		+29 00 43.734								065.84	+00.44
HR 7588	19 53 48.115	+0.79	-68 53 48.54	-6.6	SAO				254696	27603	326.85	-31.23
phi Aql	19 53 52.132	+0.264	+11 17 22.86	+0.89	FK4Sup	3590	44288	+11°2372	105438	27604	050.66	-08.80
V724 Aql	19 54 15.		+00 58		GCVS						041.55	-13.98
V725 Aql	19 54 21.		+10 41 18.		GCVS						050.20	-09.21
UU Aql	19 54 35.23		-09 27 26.4		L85						031.93	-18.84
V1356 Cyg	19 54 39.43		+29 51 25.1		AC						066.70	+00.66
V4140 Sgr	19 55 31.		-39 04 06.		NSV						001.42	-29.16
V548 Cyg	19 55 47.054	-0.10	+54 39 50.45	+1.1	AGK3			+54°1274	032137		088.32	+13.17
V1582 Cyg	19 56 11.328	+0.02	+43 11 40.30	+1.1	SAO				049029		078.27	+07.35
AW Sge	19 56 21.		+16 33 06.		GCVS						055.54	-06.63
V1357 Cyg	19 56 28.879	+0.03	+35 03 54.77	-0.3	AGK3			+35°1910	069181		071.34	+03.07
the1 Sgr	19 56 29.133	+0.061	-35 24 47.51	-2.44	FK4	751	30751		211716	27670	005.52	-28.47
QX Sge	19 57 25.03882	-0.121	+20 40 00.7185	-2.30	( )						059.20	-04.70

Name	RA(1950)	μ(RA)	Dec(1950)	μ(Dec)	Pos Ref	FK4	SRS	AGK3	SAO	GC	l	b
V1746 Cyg	19 58 05.074	+0.011	+36 54 16.84	-0.16	FK4Sup	3599		+36°1907	069231	27724	073.07	+03.76
HD 189783	19 59 03.538	+0.55	+10 36 33.14	0.0	AGK3			+10°2575	105560	27754	050.72	-10.25
V1028 Cyg	19 59 50.680		+56 48 12.50		BFW87						090.52	+13.73

Name	Bayer	Flmstd	HR	HD	BD	CoD	CPD	Var	Other
V1402 Aql				177230	-4°4678			V1402 Aql	LS IV -4°34; MR 91; TH 14-19; Ve 5-5; WR
V337 Aql				177284	-2°4840			V337 Aql	745.1933; LS IV -2°24; P 1725
HD 177624				177624	+9°3979				17G Aql
BH Dra				178001	+57°1942			BH Dra	BV 344
HD 177559				177559	-19°5292		-19°07289		BV888; NSV 11722
V805 Aql				177708	-11°4871			V805 Aql	
HD 177762				177762	-17°5470				CSV 4520; NSV 11737; SVS 970
V525 Sgr				177768		-30°16665	-30°05841	V525 Sgr	700.1935
DG Dra				238987	+56°2190			DG Dra	
Y Aql		18 Aql	7248	178125	+10°3787			Y Aql	7H Aql; Zi 1606
HR 7258			7258	178329	+41°3232				
17 Lyr		17 Lyr	7261	178449	+32°3326				
V478 Lyr				178450	+30°3425			V478 Lyr	INCA 2400
MV Lyr								MV Lyr	CSV 4539; SVS 1021; X1905+439 (H)
V1089 Sgr								V1089 Sgr	
HD 178661				178661	+38°3441				
HR 7267			7267	178619	+16°3758				
HR 7257			7257	178322		-42°13933	-42°08616		45G CrA
X1907+690									X1907+690 (1H)
QR Sge								QR Sge	209 BAC; He 2-427; LS IV +16°4; WR 124
V1343 Aql								V1343 Aql	4C 04.66; SS433; X1909+048 (3A,1ES,H,1
FL Lyr				179890	+46°2641			FL Lyr	163.1935
V352 Aql								V352 Aql	279.1931; P 1753
V1315 Aql								V1315 Aql	CSV 8130; KPD 1911+212; SVS 1299
eta Lyr	eta Lyr	20 Lyr	7298	180163	+38°3490				14H Lyr; CSV 101817; NSV 11839; Zi 1643
psi Sgr	psi Sgr	42 Sgr	7292	179950		-25°13866	-25°06737		13H Sgr; 155G Sgr; IRC -30407
PSR 1913+16									PSR 1913+16
HR 7305B			7305 B	180553 B	27°3313 B				
1 Vul		1 Vul	7306	180554	+21°3713				1H Vul; CSV 102915; NSV 11866
FO Aql								FO Aql	3.1905; Zi 1646
V431 Sgr								V431 Sgr	
RS Vul				180939	+22°3647			RS Vul	16.1908
HD 181144				181144	+16°3812				
U Sge			7326	181182	+19°3975			U Sge	93.1901; INCA 2614; X1916+195 (1ES)
HR 7338			7338	181470	+37°3413				

Name	Bayer	Flmstd	HR	HD	BD	CoD	CPD	Var	Other
26 Aql	f Aql	26 Aql	7333	181391	-5°4936				(3H Ati); 38G Aql; IRC -10505
ups Sgr	ups Sgr	46 Sgr	7342	181615/6	-16°5283			ups Sgr	14H Sgr; 176G Sgr; AFGL 2373; IRC -20558
GD 219									BPM 94172; EG 201; GD 219; Gl 755.1; WD
Z Vul				181987	+25°3803			Z Vul	26.1900
V4138 Sgr				181809	-20°5516		-20°07550	V4138 Sgr	INCA 1208
V753 Cyg								V753 Cyg	CSV 4658; S 4780
V1113 Cyg								V1113 Cyg	S 9382
2 Sge		2 Sge	7369	182490	+16°3839				
DH Aql								DH Aql	HV 3899
PW Vul								PW Vul	N Vul 1984 No. 1
V1741 Cyg		4 Cyg	7395	183056	+36°3557			V1741 Cyg	(16H Lyr)
V1918 Cyg					+52°2426			V1918 Cyg	BV 313; CSV 8172; NSV 12040
V859 Cyg								V859 Cyg	HBV 305
PR Tel						-52°09130	-52°11456	PR Tel	PKS 1925-524
TT Lyr					+41°3353			TT Lyr	136.1910
V1504 Cyg								V1504 Cyg	CSV 4693; P 5043; SVS 710
V822 Aql				183794	-2°5024			V822 Aql	56G Aql; 115.1935; INCA 2714; P 5040
WY Sge								WY Sge	N Sge 1783
V4089 Sgr			7422	184035		-40°13356	-40°09036	V4089 Sgr	201G Sgr; BV 1567; NSV 12133
KX Aql								KX Aql	HV 5428
HN Cyg								HN Cyg	294.1929
V795 Cyg								V795 Cyg	VV 63
V417 Aql					+5°4202			V417 Aql	119.1935; P 5055
51 Sgr	h1 Sgr	51 Sgr	7431	184552		-24°15442	-24°06764		204G Sgr; CSV 101860; NSV 12183; Zi 1738
NSV 12245									28.1938; CSV 4762; NSV 12245
V1289 Aql								V1289 Aql	67.1903; CSV 4758; Zi 1756
EM Cyg								EM Cyg	185.1928
sig Aql	sig Aql	44 Aql	7474	185507	+5°4225			sig Aql	12H Aql; 68G Aql; Zi 1757
V1143 Cyg			7484	185912	+54°2193			V1143 Cyg	
QS Aql			7486	185936	+13°4098			QS Aql	
FY Vul								FY Vul	122.1940; CSV 4779
V1285 Cyg								V1285 Cyg	VV 255
LT Pav							-71°02462	LT Pav	CSV 8253; S 7007
V3885 Sgr						-42°14462	-42°08912	V3885 Sgr	WD 1944-421
QY Vul				186943				QY Vul	He 3-1772; LS II +28°7; MR 94; WR 127

Name	Bayer	Flmstd	HR	HD	BD	CoD	CPD	Var	Other
OO Aql				187183	+8°4224			OO Aql	HV 5468
V688 Aql				353804	+15°3951			V688 Aql	371.1936; LS II +15°15; P 5111
QT Sge				187282				QT Sge	He 3-1777; LS II +18°14; MR 95; SVS 2623
V811 Cyg								V811 Cyg	VV 64
V1765 Cyg			7551	187459	+33°3602			V1765 Cyg	CSV 101894; LS II +33°6; NSV 12436; Zi I
V1339 Aql			7554	187567	+7°4252			V1339 Aql	84G Aql; MWC 322
V542 Cyg								V542 Cyg	S 3813
HO Tel				187418		-47°13121	-47°09372	HO Tel	BV 590
V380 Cyg			7567	187879	+40°3902			V380 Cyg	Zi 1812
12 Vul		12 Vul	7565	187811	+22°3833				9H Vul; AFGL 2468S
EV Vul				345076	+23°3809			EV Vul	358.1943; CSV 4852; LS II +23°50; S 3683
NU Cyg								NU Cyg	130.1928
DO Vul								DO Vul	25.1928; P 1928
V505 Sgr			7571	187949	-14°5578			V505 Sgr	240G Sgr; 399.1933; INCA 2715
HR 7589			7589	188209	+46°2793				LS III +46°1
AB Dra								AB Dra	90.1934; P 5209
HR 7578			7578	188088		-24°15668	-24°06848		242G Sgr; Gl 770
V1454 Cyg								V1454 Cyg	GR 221
AT Vul				345185	+23°3826			AT Vul	311.1930
SY Sge				350944				SY Sge	33.1926; LS II +18°17
EY Cyg								EY Cyg	200.1928
PSR 1953+29									2CG 065+00; PSR 1953+29
HR 7588			7588	188164		-69°01886	-69°03073		79G Pav
phi Aql	phi Aql	61 Aql	7610	188728	+11°4055				21H Aql
V724 Aql								V724 Aql	798.1933; P 1960
V725 Aql								V725 Aql	105.1940
UU Aql								UU Aql	19.1907; HV 1319
V1356 Cyg					+29°3814			V1356 Cyg	HBV 477LS II +29°27
V4140 Sgr								V4140 Sgr	CSV 8349; NSV 12615; S 7273
V548 Cyg				189371	+54°2255			V548 Cyg	S 3814
V1582 Cyg				189348	+42°3543			V1582 Cyg	
AW Sge								AW Sge	151.1905; Zi 1847
V1357 Cyg				226868	+34°3815			V1357 Cyg	Cyg X-1; INCA 1219; LS II +35°8; SVS 180
the1 Sgr	the1 Sgr		7623	189103		-35°13831	-35°08699		K1 Sgr; 256G Sgr
QX Sge								QX Sge	PSR 1957+20

Name	Bayer	Flmstd	HR	HD	BD	CoD	CPD	Var	Other
V1746 Cyg		25 Cyg	7647	189687	+36°3806			V1746 Cyg	12H Cyg; MWC 624
HD 189783				189783	+10°4143				
V1028 Cyg								V1028 Cyg	S 7854

Name	Sp1	Sp2	T-JD 2400000	P	e	omel	V0	K1	K2	v1 sin i	v2 sin i
V1402 Aql	WN8	[G3V]	43659.48	1.7616	0.	-	+65.	22			
V337 Aql	B0.5Vp	B2V	42584.550	2.733885	0	-					
HD 177624	B3V	B6V	41807.505	2.374148	0.0	-	-11.4	81.9	196.0	120	
BH Dra	A2V	Ap (F6V)	40020.2866	1.81723857	0.049	192.28	-36.36	86.47		60	90:
HD 177559	B6Vn		47794.66258	0.7148							
V805 Aql	A2V	A7(V)	27927.8470	2.4082337	0.0	-	-38.	107.0	139.0	48	
HD 177762	K2			1.024/n							
V525 Sgr	A5/7V		29662.2886	0.70512200	0.025	0					
DG Dra	A5V	A5V	41852.105	0.5713698	0.10	75	-14.2	36.6			
Y Aql	B8III-V	(A1IV)	38607.445	1.30227	0.00	-	-18.65	27.59		57	
HR 7258	B3V	[M4V]	21735.8530	1.03088	0.015	20.02	-21.19	12.12			
17 Lyr	F0V		41206.04	42.857	0.	-	-36.62	13.06		127	
V478 Lyr	G8V		45940.3336	2.130514	0.	-	-20.2	37.7		21.*	
MV Lyr	sdOpe	M5V	44453.7552	0.1336	0	-	-39.	25	44. e		
V1089 Sgr				(<~0.200 ACP)							
HD 178661	A3[V]	[F6V]	24901.110	1.54039	0.00	-	-29.8	88.7			
HR 7267	F5IV-V	[F5IV-V]	44800.00	4.812409	0.052	27	+10.3	86.1	85.6		
HR 7257	B6V	F1IV	38238.11	12.47	0.053	19.1	+13.3	79.7	78.9	102	39
X1907+690	sdBe		47681.729164	0.07265625							
QR Sge	WN8	[K6V]	43652.12	2.3583	0.	-	+190.	12.7			
V1343 Aql		(B2Ib-II)	44590.05	13.0820	0.044 phi	110.0 phi	+27.	195			
FL Lyr	F8V	G8V	45143.7256	2.1781542	0	-	-38.8	93.5	118.9		
V352 Aql	ealp			[0.182]							
V1315 Aql	sdBe		45902.70088	0.13968994	0.	-	-6.:	120.		378 e	
eta Lyr	B2.5IV	[M4V]	41868.4	56.4	0.53	337	-8.9	2.8		24	
psi Sgr	F2II-III	G5III-IV	42226.01	10.77862	0.470	181.5	-43.0	72.5	90.6	0	
PSR 1913+16	(PSR)	[NS]	46444.49588321	0.322997462740*	0.6171309	226.57531	-	201.3412	[209.14]		
HR 7305B	B8V	[G0V]	40803.549	2.922774	0.063	242.4	-16.4	50.9		50	
1 Vul	B4IV		41903.6	249.4	0.64	93	-25.2	10.9		130	
FO Aql				(0.317)							
V431 Sgr	[G9]	(G8.5)	23879.512	0.27438732							
RS Vul	B5Ve	G1III	32808.257	4.4776635	0.0	-	-	54.0	204	61	
HD 181144	F8IV-V	[M0V]	44800.764	5.380512	0.0	-	-4.4	38.3			
U Sge	B8V	G2IV-III	17131.3603	3.38061933	0.030	194.4	-10.1	69.69	209	80	75
HR 7338	A0III	(A1V)	23570.622	10.3932	0.520	198.68	-14.86	60.26	84.0	5	

Name	Sp1	Sp2	T-JD 2400000	P	e	omel	V0	K1	K2	v1 sin i	v2 sin i
26 Aql	G8III-IV		33420.207	266.544	0.833	152.65	-18.00	29.86		<15.	
ups Sgr	A2Iaq	B2Vpe	47951.15	137.943	0.0	-	+7.4	47.4	29.7	58	
GD 219	DA5	dM?	47364.9568	1.4865?	0.	-		83.9			
Z Vul	B4V	A3III	42947.4777	2.454934	0.0	-	-21.8	89.8	219.7	98	72
V4138 Sgr	K1III		44011.06	13.048	0.	-	-13.4	9.7		8.*	
V753 Cyg	F8	(K2)	33804.47	0.476187							
V1113 Cyg				[0.224]							
2 Sge	A2III-IV	[A8V]	21049.023	7.3919	0.0	-	+11.2	52.8	77.6	43	
DH Aql				(0.158)							
PW Vul			46704.263?	0.21372?							
V1741 Cyg	B9III-IVpSi		38929.1	35.0225	0.45	290	-11.0	5.7		34.*	
V1918 Cyg			46907.9108	0.4131856							
V859 Cyg	[F1]	(F2)	34629.4141	0.40500132							
PR Tel	F[5]	(F7)	42621.479	0.59064							
TT Lyr	B2V		38605.2644	5.243727							
V1504 Cyg				(0.091: ACP)							
V822 Aql	B2.5Vn	B9.5V	42577.333	5.294950	0	-	+2.7	140.	113.	>130.	
WY Sge	sdBe		45137.8993	0.1536342	0.	-	+28.	57.			
V4089 Sgr	A3III	(A6V)	44832.192	4.62988	0.09	315	+11.9	72.5		53	
KX Aql				(0.061 or 0.302 ACP)							
HN Cyg	M6.5										
V795 Cyg				(<0.440 ACP)							
V417 Aql	G2V	(G0)	43016.404	0.3701288							
51 Sgr	A1/2/F0[V]m		18110.796	8.115785	0.137	260.2	-30.34	20.85		16	
NSV 12245				[0.108]							
V1289 Aql				[0.182]							
EM Cyg	sdBe	K5V	37882.8603	0.290909155	0.	-	-23.	170.	135.	608 Sh; 350 e; (29	
sig Aql	B3V	B3V	22486.7955	1.95026827	0.0	-	-4.5	164.2	208	121	129
V1143 Cyg	F5V	F5V	42212.53134	7.64075217	0.540	48.6	-16.5	88.20	91.10	18	28
QS Aql	B5V		40443.489	2.513294	0.0	-	-14.8	58.4	223	58	
FY Vul	cont			(0.304)							
V1285 Cyg											
LT Pav	[G3]	(G1)	36730.478	0.32885							
V3885 Sgr	sdBe		45148.5535	0.25867	0.0	-	-45.	199	66.*		
QY Vul	WN4	O9.5V	43789.45	9.5550	0.0	-	+12.	185.*	99		250

Name	Sp1	Sp2	T-JD 2400000	P	e	omel	V0	K1	K2	v1 sin i	v2 sin i
OO Aql	G5V	(G5V)	45185.2551	0.50678914	0.	-	-45.2	151.9	180.2		
V688 Aql	OB [B0]	(B1.5)	33543.296	3.889717							
QT Sge	WN4	[F1V]		3.871	0.	-	+100.:	20			
V811 Cyg				(0.097: ACP)							
V1765 Cyg	B0.5Ibe:	B2V	46086.682	13.373833	0.335	303.4	+11.9	104.4	213.3	135	30:
V1339 Aql	B2.5VIVe		44807.116	1.27219	0.	-	-21.0	17.5			
V542 Cyg				(0.195 ACP)							
HO Tel	A7III(m)		42615.8350	1.6131045							
V380 Cyg	B1.5II-III	B2V	37455.02	12.425612	0.218	124.7	-1.5	92.8	168.0	93	40
12 Vul	B2.5Ve			3.7	0.	-	-28.	20.		281	
EV Vul	B1V:	(B2.5)	42731.135	2.82200							
NU Cyg	[G8]	(G7)	24055.425	0.281125							
DO Vul				(0.054<~Porb<~0.371 ACP)							
V505 Sgr	A0V	F8IV	44461.5907	1.18287156	0.	-	-2.4	98.4	214.7	102	88
HR 7589	O9.5Ib		44179.08	18.8422	0.04	171	-7.7	4.7		77	
AB Dra	sdBe		45938.8179	0.15198	0.	-	-5.	68		607 Wi	
HR 7578	K2-3V	K2-3V	44158.37	46.817	0.692	241.2	-5.1	48.8	48.7	<=5-8*	<=5-8
V1454 Cyg				[0.224]							
AT Vul	B3		29906.980	3.98039							
SY Sge	B2	(B6)	33040.460	3.53923							
EY Cyg	sdBe	K0V	46595.323?	0.181228							
PSR 1953+29	(PSR)		46112.99	117.349097	0.0003304	29.51	-	5.8359585			
HR 7588	A0V	F5IV	37073.29	14.9859	0.563	130.7	-18.10	42.86	64.3		
phi Aql	A1IV	[K4V]	23211.458	3.320680	0.0	-	-28.0	37.2		26	
V724 Aql	G0V	(G0)	36818.6721	0.51760028							
V725 Aql				[0.108]							
UU Aql	sdBe	(M4V)	44790.052	0.140494:	0	-		43		343 Wi	
V1356 Cyg	B0V	(B1V)	40371.4095	1.95669202							
V4140 Sgr			46261.67135	0.0614296516	0.	-	-58.	56.		400: e	
V548 Cyg	A1V	F7	44456.5118	1.805233	0.11	94	-22.4	66.7			
V1582 Cyg	K2III(V)	[K2V]		1.0017/n							
AW Sge				(<0.825 ACP)							
V1357 Cyg	O9.7Iabpev	(X)	41871.97	5.59964	0.0	-	-4.44	75.0		94.3	
the1 Sgr	B3IV	[M0V]	11141.171	2.10514	0.0	-	+0.9	15.9		69	
QX Sge	(PSR)		47700.0069327	0.3819666179*	<0.00004	-	-	5.09277			

Name	Sp1	Sp2	T-JD 2400000	P	e	omel	V0	K1	K2	v1 sin i	v2 sin i
V1746 Cyg	B3IVe		43749.2	53.6	0.18	-	-14.6	20.1		229	
HD 189783	F5V	F7V	23802.192	4.4696	0.10	294.5	-43.	41.3		<=54.	
V1028 Cyg				[0.224]							

Name	Spectroscopic orbit
V1402 Aql	Lamontagne, R., Moffat, A.F.J., Seggewiss, W. 1983, ApJ, 269, 596
V337 Aql	Alduseva, V.Ya. 1977, Perem. Zvezdy, 20, 375
HD 177624	Hill, G., Fisher, W.A. 1980, Pub. DAO, 15, 411
BH Dra	Yavuz, I. 1968, Abh. Hamburger Sternw., 8, 123
HD 177559	
V805 Aql	Popper, D.M. 1981, ApJ, 244, 541
HD 177762	
V525 Sgr	
DG Dra	Burke, E.W., Jr., Abt, H.A. 1974, PASP, 86, 677
Y Aql	Jordan, F.C. 1914, Pub. Allegheny Obs., 3, 77
HR 7258	Boothroyd, S.L. 1922, Pub. DAO, 2, 173
17 Lyr	Dworetsky, M.M. 1983, MN, 203, 917
V478 Lyr	Fekel, F.C., Jr. 1988, unpub. (see Strassmeier, K.G., et al. 1988, AAp Suppl., 72, 291)
MV Lyr	Schneider, D.P., Young, P., Shectman, S.A. 1981, ApJ, 245, 644
V1089 Sgr	
HD 178661	Luyten, W.J. 1936, ApJ, 84, 85
HR 7267	Mayor, M., Mazeh, T. 1987, Astr. Ap., 171, 157
HR 7257	Thackeray, A.D., Hutchings, J.B. 1965, MN, 129, 191
X1907+690	
QR Sge	Moffat, A.F.J., Lamontagne, R., Seggewiss, W. 1982, AAp, 114, 135
V1343 Aql	Crampton, D., Hutchings, J.B. 1981, ApJ, 251, 604
FL Lyr	Popper, D.M., Lacy, C.H., Frueh, M.L., Turner, A.E. 1986, AJ, 91, 383
V352 Aql	
V1315 Aql	Dhillon, V.S., Marsh, T.R., Jones, D.H.P. 1991, MN, 252, 342
eta Lyr	Abt, H.A., Levy, S.G. 1978, ApJ Suppl., 36, 241
psi Sgr	Fekel, F.C. 1975, AJ, 80, 844
PSR 1913+16	Taylor, J.H., Wolszczan, A., Damour, T., Weisberg, J.M. 1992, Nature, 355, 132
HR 7305B	Hube, D.P. 1973, AAp Suppl., 10, 267
1 Vul	Abt, H.A., Levy, S.G. 1978, ApJ Suppl., 36, 241
FO Aql	
V431 Sgr	
RS Vul	Holmgren, D. 1989, SpSciRev, 50, 347
HD 181144	Mayor, M., Mazeh, T. 1987, Astr. Ap., 171, 157
U Sge	McNamara, D.H. 1951, ApJ, 114, 513; Tomkin, J. 1979, ApJ, 231, 495
HR 7338	Harper, W.E. 1928, Pub. DAO, 4, 183

Name	Spectroscopic orbit
26 Aql	Franklin, K.L. 1952, ApJ, 116, 383
ups Sgr	Dudley, R.E., Jeffery, C.S. 1990, MN, 247, 400
GD 219	Ringwald, F.A. 1988, poster paper at IAU Colloq. 114
Z Vul	Popper, D.M. 1957, ApJ, 126, 53
V4138 Sgr	Collier-Cameron, A., Lloyd Evans, T., Balona, L.A. 1988, MN, in press
V753 Cyg	
V1113 Cyg	
2 Sge	Luyten, W.J. 1936, ApJ, 84, 85
DH Aql	
PW Vul	
V1741 Cyg	Abt, H.A., Snowden, M.S. 1973, ApJ Suppl., 25, 137
V1918 Cyg	
V859 Cyg	
PR Tel	
TT Lyr	
V1504 Cyg	
V822 Aql	Rachkovskaya, T.M. 1981, Izv. Krym. Astrofiz. Obs., 64, 81 (1984, Bull. Crimean Ap. Obs., 64, 76)
WY Sge	Shara, M.M., Moffat, A.F.J., McGraw, J.T., Dearborn, D.S., Bond, H.E., Kemper, E., Lamontagne, R. 1984, ApJ, 282, 763
V4089 Sgr	Buscombe, W., Morris, P.M. 1961, MN, 123, 183
KX Aql	
HN Cyg	
V795 Cyg	
V417 Aql	
51 Sgr	Walker, E.N., Jones, D.H.P. 1969, Obs., 89, 202
NSV 12245	
V1289 Aql	
EM Cyg	Stover, R.J., Robinson, E.L., Nather, R.E. 1981, ApJ, 248, 696
sig Aql	Luyten, W.J., et al. 1939, Pub. Yerkes Obs., 7, 251
V1143 Cyg	Anderson, J., Garcia, J.M., Giménez, A., Nordström, B. 1987, AAp, 174, 107
QS Aql	Holmgren, D. 1987, BAAS, 19, 709; Heintze, J.R.W., Spronk, W., Hoekzema, N. 1989, SpSciRev, 50, 344
FY Vul	
V1285 Cyg	
LT Pav	
V3885 Sgr	Haug, K., Drechsel, H. 1985, AAp, 151, 157
QY Vul	Massey, P. 1981, ApJ, 244, 157

Name	Spectroscopic orbit
OO Aql	Hrivnak, B.J. 1989, ApJ, 340, 458
V688 Aql	
QT Sge	Antokhin, I.I., Aslanov, A.A., Cherepashchuk, A.M. 1982, Pis'ma AZh, 8, 734 (1983, Sov. Astr. Lett., 8, 395)
V811 Cyg	
V1765 Cyg	Mayer, P., Hadrava, P., Harmanec, P., Chochol, D. 1991, BAC, 42, 230
V1339 Aql	Gies, D.R., Bolton, C.T. 1986, ApJ Suppl., 61, 419
V542 Cyg	
HO Tel	
V380 Cyg	Hill, G., Batten, A.H. 1984, AAp, 141, 39
12 Vul	Kodaira, K. 1971, PASJ, 23, 159
EV Vul	
NU Cyg	
DO Vul	
V505 Sgr	Khalesseh, B., Hill, G. 1991, AAp, 244, 75
HR 7589	Aab, O.E. 1987, Pub. Astr. Inst. Cezch. Acad. Sci., 70, 121
AB Dra	Thorstensen, J.R., Freed, L.W. 1985, AJ, 90, 2082
HR 7578	Fekel, F.C., Jr., Beavers, W.I. 1983, ApJ, 267, 682
V1454 Cyg	
AT Vul	
SY Sge	
EY Cyg	
PSR 1953+29	Rawley, L.A., Taylor, J.H., Davis, M.M. 1988, ApJ, 326, 947
HR 7588	Evans, D.S., Laing, J.D., Newburg, J.L. 1967, R. Obs. Bull., No. 130
phi Aql	Lucy, L.B., Sweeney, M.A. 1971, AJ, 76, 544
V724 Aql	
V725 Aql	
UU Aql	Thorstensen, J.R. 1985, priv. comm.
V1356 Cyg	
V4140 Sgr	Mukai, K., Corbet, R.H.D., Smale, A.P. 1988, MN, 234, 291
V548 Cyg	Heard, J.F., Morton, D.C. 1962, Pub. DDO, 2, 255
V1582 Cyg	
AW Sge	
V1357 Cyg	Ninkov, Z., Walker, G.A.H., Yang, S. 1987, ApJ, 321, 425
the1 Sgr	Wilson, R.E., Huffer, C.M. 1921, Pop. Astr., 29, 85
QX Sge	Ryba, M.F., Taylor, J.H. 1991, ApJ, 380, 557

Name	Spectroscopic orbit
V1746 Cyg	Abt, H.A., Gomez, A.E., Levy, S.G. 1990, ApJ Suppl., 74, 551
HD 189783	Sanford, R.F. 1925, ApJ, 61, 320
V1028 Cyg	

Name	V	B-V	U-B	R-I	E(B-V)	par	Cluster	ADS	Vis Binary	Companions
V1402 Aql	11.25	+0.45	+0.24		0.77					
V337 Aql	8.57	+0.48	-0.56		0.66					
HD 177624	6.86	+0.19	-0.36							
BH Dra	8.38	+0.05	-0.05		0.00			12019 A	Arg 33 A	9.25V, +0.20, +0.07, 10.8"
HD 177559	8.02	+0.03	-0.66:							
V805 Aql	7.58	+0.30	+0.16		0.13					
HD 177762	10.6 p									
V525 Sgr	8.28	+0.22			0.00					
DG Dra	9.30									
Y Aql	5.09	-0.07	-0.39		0.00	0.016			hz 568 A	del m=1.3, 0.35"
HR 7258	6.49	-0.15	-0.64		0.07					
17 Lyr	5.23	+0.34	+0.07			0.017		12061 A	Sig 2461 A	del m=4.3, 3.5"
V478 Lyr	7.72	+0.74	+0.21	+0.43						
MV Lyr	13.73	-0.13	-1.01		0.00 u					
V1089 Sgr	13.8 p				0.21 m					
HD 178661	7.60	+0.26	+0.07		0.14			12075 A	Sig 2469 A	8.9, 1.4"
HR 7267	6.48	+0.52	+0.25		0.09	0.018	UMa?			
HR 7257	5.88	-0.08	-0.46		0.02		Sco-Cen			
X1907+690	18.0									
QR Sge	11.59	+0.82	+0.40		1.25					
V1343 Aql	14.26	+1.98			2.52					
FL Lyr	9.30									
V352 Aql	13.3 p				0.17 m					
V1315 Aql	14.39	+0.36	-0.46		0.2 u					
eta Lyr	4.39	-0.15	-0.65	-0.15	0.07	0.002		12197 A	Sig 2487 A	8.4, A0, 28.3"
psi Sgr	4.85 D	+0.56	+0.32	+0.34	0.10	0.005; D0.010		12214 A	B 430 A (orb)	6.2, 0.001"; 5.7 F9V, 0.153"
PSR 1913+16					0.81 m					
HR 7305B	6.54 D	-0.06	-0.59		0.02	D0.002		12239 B	OSig 371 B	7.24V, B8III, 0.9"; 10.1v, 48"
1 Vul	4.77	-0.05	-0.54	-0.07		0.017		12243 A	h 2862 A	del m=7.1, 39.1"
FO Aql	13.87	+0.48:	-0.52		0.0 u					
V431 Sgr	14.3 p									
RS Vul	6.79	+0.08				-0.021				
HD 181144	6.92 v				0.00					
U Sge	6.58	+0.03	-0.38		0.05	0.005	(Be 44)		bet pm A	9.6, 92.0"
HR 7338	6.26	0.00	-0.07		0.00		(NGC 6791)			

Name	V	B-V	U-B	R-I	E(B-V)	par	Cluster	ADS	Vis Binary	Companions
26 Aql	5.01	+0.92	+0.63	+0.50		0.030			bet pm A	del m=6.8, 115.9"
ups Sgr	4.61	+0.10	-0.53	+0.13						del m=1.0, 0.011"
GD 219	12.98	+0.07	-0.66			0.0507				
Z Vul	7.25	+0.09			0.24			12352 A	Es 483 A	12.0, 13"
V4138 Sgr	6.81	+1.03	+0.71	+0.54		0.005				
V753 Cyg	11.2 p									
V1113 Cyg	14. p				0.15 m					
2 Sge	6.25	+0.08	+0.04	+0.02	0.00				Sig I 41 A	7.1, 340.6"
DH Aql	12.5 p				0.10					
PW Vul	0.708				0.50					
V1741 Cyg	5.15	-0.12	-0.43			-0.007				
V1918 Cyg	10.59	+0.43								
V859 Cyg	11.7 p									
PR Tel	11.08 B									
TT Lyr	9.34	+0.01								
V1504 Cyg	13.8	+0.1:			0.12 m					
V822 Aql	6.87	+0.18	-0.39			0.0015; D0.004		12538 A	Dem 20 A; Sig 2535	10.1, 1"; 9.8, 25.2"
WY Sge	17.6 B									
V4089 Sgr	5.87	+0.09			0.00					
KX Aql	12.5 p				0.21 m					
HN Cyg	13.3 p				0.22 m					
V795 Cyg	13.4 p				0.07 m					np
V417 Aql	10.46	+0.67								
51 Sgr	5.65	+0.19	+0.17	+0.07		0.018				7.8, 0.0002"
NSV 12245	10.7 p				0.04 m					
V1289 Aql	13. p				0.18 m					
EM Cyg	12.40	+0.09	-0.87		0.05 u					
sig Aql	5.17	+0.03	-0.60		0.24			12737 A	h 2886 A	12.34, 47.8"; 12v, 130"
V1143 Cyg	5.86	+0.46	0.00		0.03	0.036				
QS Aql	5.93	-0.08	-0.52						Kui 93 A	6.7, 0.18"
FY Vul	13.4 p				0.03					*
V1285 Cyg	13.1 p				0.13 m					
LT Pav	11.4 p									
V3885 Sgr	10.36	0.00	-0.74		0.00 u	-0.003;	Hyades scl			
QY Vul	10.31	+0.15	+0.12		0.40 u		Vul OB2			

Name	V	B-V	U-B	R-I	E(B-V)	par	Cluster	ADS	Vis Binary	Companions
OO Aql	9.31	+0.76	+0.26							
V688 Aql	10.3 p									
QT Sge	10.52	0.00	-0.10		0.25 u					
V811 Cyg	12.7 p				0.08 m					
V1765 Cyg	6.44	+0.20	-0.74				Cyg OB5			
V1339 Aql	6.51	-0.10	-0.70						CHARA 89	
V542 Cyg	13.0 p				0.13 m					
HO Tel	8.27	+0.20								
V380 Cyg	5.69	-0.04	-0.77		0.20					
12 Vul	4.95	-0.14	-0.68	-0.14						
EV Vul	10.68	+0.88	-0.12							
NU Cyg	14.3 p									
DO Vul	14.0 p				0.26 m					
V505 Sgr	6.48	+0.136	+0.092			0.0083			CHARA 90	9.2v,F7,0.29"
HR 7589	5.62	-0.07	-0.97	-0.12		0.009				
AB Dra	12.28	+0.01	-0.74	-0.04	0.10 u					
HR 7578	6.16	+1.05	+0.94	+0.48	0.11	0.075		13072 A	h 2904 A	del m=4.0, 31.5"
V1454 Cyg	13.9 p				0.15 m					
AT Vul	9.08									
SY Sge	10.5 v									
EY Cyg	11.4 p									
PSR 1953+29										
HR 7588	6.39	+0.16	+0.09		0.11					
phi Aql	5.28	-0.01	-0.08		0.00	0.023				
V724 Aql	11.10	+0.47	+0.12							
V725 Aql	13.7 p				0.14 m					
UU Aql	11.3 v				0.05 u					
V1356 Cyg	10.18	+0.45	-0.51				Vul OB2?			
V4140 Sgr	15.5 p									
V548 Cyg	8.54									
V1582 Cyg	9.0				0.03 m					
AW Sge	13.8 p				0.18 m					
V1357 Cyg	8.78	+0.80	-0.24		1.06		Cyg OB3			
the1 Sgr	4.37	-0.15	-0.67		0.06					
QX Sge	20.4									

Name	V	B-V	U-B	R-I	E(B-V)	par	Cluster	ADS	Vis Binary	Companions
V1746 Cyg	5.19	-0.17	-0.69							
HD 189783	6.98	+0.44	0.00		0.00	D0.010		13256 A	Sig 2613 A (orb)	7.8, 3.822"
V1028 Cyg	13.0 p				0.14 m					

Name	Vbl type	Min I	Min II	D	d	i	r1	r2	l1	qph
V1402 Aql	WR					55.91 pi				
V337 Aql	EB/DM	9.27	9.09			78.7	0.380	0.318	0.625 V	
HD 177624							0.432 ome			
BH Dra	EA/SD:	9.27	8.58	0.10	0.000	86.8	0.208	0.148	0.857 V*	
HD 177559	-	8.61	8.63							
V805 Aql	EA/DM	8.22	7.90	0.11; 0.11		86.0	0.18	0.15	0.70 V	
HD 177762	EW:	11.3 p								
V525 Sgr	EB/KE	8.93	8.51				0.528	0.304	0.185 p	(0.3014)
DG Dra	ELL	(0.14)	(0.12)			57.	0.57	0.21	0.90 V	0.13
Y Aql	E/KE	5.06 B	5.05 B			41.	0.60	0.21	0.94 B	(0.09794)
HR 7258						40.58 pi				
17 Lyr										
V478 Lyr	RS	(0.055 V)	(0.00 V)	0.0392		82.8	(0.134)	(0.041)	0.9968 V	
MV Lyr	NL	17.65				9.27 p				
V1089 Sgr	UGSS	17: p				57.63 pi				
HD 178661						61.72 pi				
HR 7267						78.75 se				
HR 7257						82.75 se	0.63 ome	0.24 ome		
X1907+690		>20.8		[0.066]						
QR Sge	E:/WR					56.35 pi				
V1343 Aql	E+XJ	(sig v=0.31)				78.93		0.27	0.208	
FL Lyr	EA/DM	9.89	9.52	0.08; 0.05		86.3	0.140	0.105	0.79 V	
V352 Aql	NL	18.5: p				57.63 pi				
V1315 Aql	IS	16.1		[0.085]						
eta Lyr	-					55.90 pi				
psi Sgr						74.5	0.00 ome			
PSR 1913+16						47.393				
HR 7305B						56.11 pi				
1 Vul	-									
FO Aql	UGSS	17.5 p				57.63 pi				
V431 Sgr	EW/KW	14.9 p	14.9 p			77.5	0.420	0.300	0.65 p	0.62
RS Vul	EA/SD:	7.83	6.86	0.14	0.000	78.7	0.205	0.266	0.923	0.28
HD 181144						57.65 pi				
U Sge	EA/SD	9.18	6.71	0.17	0.019	89.13	0.2075	0.2876	0.8944 y	
HR 7338						49.36 s	0.013 ome		0.76 s	

Name	Vbl type	Min I	Min II	D	d	i	r1	r2	l1	qph
26 Aql										
ups Sgr	EB/GS	(0.08 p)	(0.06 p)			<=30.	0.75 ome			
GD 219										
Z Vul	EA/SD	8.90	7.58	0.18		88.5	0.300	0.3015	0.954 V	
V4138 Sgr	RS									
V753 Cyg	EA	11.7 p		0.30	0.12	80.	0.40	0.24	0.96 p	0.6
V1113 Cyg	UGSS	>17. p				57.63 pi				
2 Sge						49.37 s	0.33 ome		0.65 s	
DH Aql	UGSS	>17.0 p				57.63 pi				
PW Vul	N									
V1741 Cyg	ACV									
V1918 Cyg	EW/KW	11.12	11.07							
V859 Cyg	EW/KW	12.2 p	12.1 p			73.5	0.465	0.265	0.78 p	0.39
PR Tel	EW/DW	11.45 B	11.35 B			76.	0.350	0.325	0.60 B	0.93
TT Lyr	EA/SD	11.43	9.44	0.14	0.010	83.9	0.166	0.268	0.830 V	0.27
V1504 Cyg	UGZ:	17.4 p				57.63 pi				
V822 Aql	EB/DM	7.44	7.07			76.	0.150	0.328	0.32 p	0.6
WY Sge	N+UG:+EA	19.3 B		[0.091]						
V4089 Sgr	EA/DM	6.07	6.00			82.6	0.214	0.082	0.898 V	
KX Aql	UG	17.5: p				57.63 pi				
HN Cyg	UG:	16.0 p				57.63 pi				
V795 Cyg	UGSS	>17.9: p				57.63 pi				
V417 Aql	EW/KW:	(0.5 p)	(0.5 p)			74.	0.444	0.279	0.70 p	0.48
51 Sgr	DSCT:									
NSV 12245	UG:/I	11.6 p				57.63 pi				
V1289 Aql	NL:	>15.5 p				57.63 pi				
EM Cyg	UGZ+E	14.20		[0.040]		67.55				
sig Aql	EB/DM	5.35	5.33			72.2	0.279	0.201	0.783 b	
V1143 Cyg	EA/DM	6.37	6.06	0.022; 0.040	0.002	87.0	0.059	0.0578	0.510 y	
QS Aql	EA/SD	6.06	5.97	0.17		~90.	0.318	0.183	*	0.27
FY Vul	UGZ	14.80				57.63 pi				
V1285 Cyg	UGZ:	14.8 p								
LT Pav	EW/KW	12.2 p	12.2 p			82.5	0.450	0.275	0.72 p	0.45
V3885 Sgr	NL+ZZ:									
QY Vul	E/WR					55.7 P		0.880 ome		

Name	Vbl type	Min I	Min II	D	d	i	r1	r2	I1	qph
OO Aql	EW/DW:	10.26	10.19			90.0	0.416	0.386	0.550 V	
V688 Aql	EA/DM:	11.1 p	10.8 p	0.15; 0.15		90.	0.232	0.184	0.69 p	0.70
QT Sge	E:/WR					44.54 pi				
V811 Cyg	UGSS	>17.7 p				57.63 pi				
V1765 Cyg	EB/GS+ACYG	6.58	6.54			90.0	0.268	0.074	0.9279 V	
V1339 Aql	GCAS:									
V542 Cyg	UGSS	18.3: p				57.63 pi				
HO Tel	EA/D	(0.45 p)	(0.40 p)	0.15		81.4	0.262	0.225	0.619 V	
V380 Cyg	EA/DM	5.73 B	5.69 B	0.11	0.000	80.1	0.266	0.069	0.933	
12 Vul										
EV Vul	EB/DM	(0.7 p)	(0.4 p)			88.	0.278	0.221	0.71 p	0.67
NU Cyg	EW/KW	14.9 p	14.9 p			77.5	0.42	0.30	0.65 p	0.62
DO Vul	UG	>17.4 p				57.63 pi				
V505 Sgr	EA/SD	7.51	6.63	0.20	0.02	80.9	0.300	0.293	0.919 gy	(0.459)
HR 7589										
AB Dra	UGZ	14.57				39.32 w				
HR 7578						88.98 se	<=0.005 om	<=0.014 ome		
V1454 Cyg	UGSS	>17.0 p				57.63 pi				
AT Vul	EA/SD:	10.0	9.3	0.13	0.02	83.9	0.164	0.270	0.577	
SY Sge	EA/DM	11.2 v	10.7 v			77.5	0.230	0.285	0.63 v	0.36
EY Cyg	UGSS	15.7 p								
PSR 1953+29										
HR 7588										
phi Aql						42.30 s				
V724 Aql	EW/DW	11.59	11.56			52.62 pi				
V725 Aql	UG	16.2 p				79.	0.343	0.343	0.50 V	1.0
UU Aql	UGSS	16.66				57.63 pi				
V1356 Cyg	EB/DM	(0.4 p)	(0.3 p)			18.05 w				
V4140 Sgr	EA+UGSU:	17.42		[0.0378]		69.	0.397	0.352	0.64 p	0.78
V548 Cyg	EA/SD:	9.29	8.62	0.20		76.71	0.325	0.294	0.954 V	0.362
V1582 Cyg	E:	(0.5)				86.2	0.158	0.158	0.500 V	
AW Sge	UG	>17.5 p				57.63 pi				
V1357 Cyg	ELL+XF	8.93	8.90			147.60 P	0.38		0.97 B	0.471
the1 Sgr						45.66 pi				
QX Sge	E/PSR	>23.		0.1027 (318 MHz); 0.0907 (430 MHz); 0.078 (606 MHz); 0.060 (1400 MHz)						

Name	Vbl type	Min I	Min II	D	d	i	r1	r2	I1	qph
V1746 Cyg	GCAS+BCEP									
HD 189783										
V1028 Cyg	UGSS	18. p				29.67 s				
						57.63 pi				

Name	Photometric solution
V1402 Aql	(van Genderen, A.M., et al. 1991, IAU Symp.143, 129)
V337 Aql	Giuricin, G., Mardirossian, F. 1981, AAp Suppl., 45, 499
HD 177624	
BH Dra	Giuricin, G., Mardirossian, F. 1981, AAp Suppl., 45, 499
HD 177559	(Halbedel, E.M. 1990, IBVS 3420)
V805 Aql	Popper, D.M., Etzel, P.B. 1981, AJ, 86, 102
HD 177762	
V525 Sgr	O'Connell, D. 1949, Riverview Coll. Obs. Pub., 2, 78
DG Dra	Svechnikov, M.A., Kuznetsova, E.F. 1990, Katalog Priblizhennykh Fotometricheskikh i Absolyutnykh Elementov Zatmennykh Peremennykh Zvez
Y Aql	Breinhorst, R.A. 1967, Veröff. Astr. Inst. Univ. Bonn, Nr. 75
HR 7258	
17 Lyr	
V478 Lyr	Hall, D.S., Henry, G.W., Sowell, J.R. 1990, AJ, 99, 396
MV Lyr	
V1089 Sgr	
HD 178661	
HR 7267	
HR 7257	
X1907+690	(Remillard, R.A., Stroozas, B.A., Tapia, S., Silber, A. 1991, ApJ, 379, 715)
QR Sge	(Moffat, A.F.J., Lamontagne, R., Seggewiss, W. 1982, AAp, 114, 135)
V1343 Aql	Collins, G.W., II, Newsom, G.H. 1986, ApJ, 308, 144; Leibowitz, E.M. 1984, MN, 210, 279
FL Lyr	Popper, D.M., et al. 1986, AJ, 91, 383
V352 Aql	
V1315 Aql	(Dhillon, V.S., Marsh, T.R., Jones, D.H.P. 1991, MN, 252, 342)
eta Lyr	
psi Sgr	Fekel, F.C. 1975, AJ, 80, 844
PSR 1913+16	Taylor, J.H., Wolszczan, A., Damour, T., Weisberg, J.M. 1992, Nature, 355, 132
HR 7305B	
1 Vul	
FO Aql	
V431 Sgr	Svechnikov, M.A., Kuznetsova, E.F. 1990, Katalog Priblizhennykh Fotometricheskikh i Absolyutnykh Elementov Zatmennykh Peremennykh Zvez
RS Vul	Hutchings, J.B., Hill, G. 1971, ApJ, 166, 373
HD 181144	
U Sge	Van Hamme, W., Wilson, R.E. 1986, AJ, 92, 1168
HR 7338	

Name	Photometric solution
26 Aql	
ups Sgr	Morrison, K. 1988, MN, 233, 621
GD 219	
Z Vul	Cester, B., et al. 1977, AAp, 61, 469
V4138 Sgr	
V753 Cyg	Svechnikov, M.A., Kuznetsova, E.F. 1990, Katalog Priblizhennykh Fotometricheskikh i Absolyutnykh Elementov Zatmennykh Peremennykh Zvez
V1113 Cyg	
2 Sge	
DH Aql	
PW Vul	
V1741 Cyg	
V1918 Cyg	(Seeds, M.A. 1987, IBVS 3090)
V859 Cyg	Svechnikov, M.A., Kuznetsova, E.F. 1990, Katalog Priblizhennykh Fotometricheskikh i Absolyutnykh Elementov Zatmennykh Peremennykh Zvez
PR Tel	Svechnikov, M.A., Kuznetsova, E.F. 1990, Katalog Priblizhennykh Fotometricheskikh i Absolyutnykh Elementov Zatmennykh Peremennykh Zvez
TT Lyr	Giuricin, G., Mardirossian, F., Predolin, F. 1981, AAp Sup, 43, 251
V1504 Cyg	
V822 Aql	Svechnikov, M.A., Kuznetsova, E.F. 1990, Katalog Priblizhennykh Fotometricheskikh i Absolyutnykh Elementov Zatmennykh Peremennykh Zvez
WY Sge	(Shara, M.M., Moffat, A.F.J., McGraw, J.T., Dearborn, D.S., Bond, H.E., Kemper, E., Lamontagne, R. 1984, ApJ, 282, 763)
V4089 Sgr	Gaspani, A. 1984, IBVS 2552
KX Aql	
HN Cyg	
V795 Cyg	
V417 Aql	Svechnikov, M.A., Kuznetsova, E.F. 1990, Katalog Priblizhennykh Fotometricheskikh i Absolyutnykh Elementov Zatmennykh Peremennykh Zvez
51 Sgr	
NSV 12245	
V1289 Aql	
EM Cyg	(Mumford, G.S., Krzeminski, W. 1969, ApJ Suppl., 18, 429)
sig Aql	Cester, B., et al. 1978, AAp Suppl., 33, 91
V1143 Cyg	Anderson, J., Garcia, J.M., Giménez, A., Nordström, B. 1987, AAp, 174, 107
QS Aql	Heintze, J.R.W., Spronk, W., Hoekzema, N. 1989, SpSciRev, 50, 344
FY Vul	
V1285 Cyg	
LT Pav	Svechnikov, M.A., Kuznetsova, E.F. 1990, Katalog Priblizhennykh Fotometricheskikh i Absolyutnykh Elementov Zatmennykh Peremennykh Zvez
V3885 Sgr	
QY Vul	St.-Louis, N., Moffat, A.F.J., Drissen, L., Bastien, P., Robert, C. 1988, ApJ, 330, 286

Name	Photometric solution
OO Aql	Hrivnak, B.J. 1989, ApJ, 340, 458
V688 Aql	Svechnikov, M.A., Kuznetsova, E.F. 1990, Katalog Priblizhennykh Fotometricheskikh i Absolyutnykh Elementov Zatmennykh Peremennykh Zvez
QT Sge	(Antokhin, I.I., Aslanov, A.A., Cherepashchuk, A.M. 1982, Pis'ma AZh, 8, 734 (1983, Sov. Astr. Lett., 8, 395)
V811 Cyg	
V1765 Cyg	Mayer, P., Hadrava, P., Harmanec, P., Chochol, D. 1991, BAC, 42, 230
V1339 Aql	
V542 Cyg	
HO Tel	Giuricin, G., Mardirossian, F. 1981, AAp Suppl., 45, 499
V380 Cyg	Hill, G., Batten, A.H. 1984, AAp, 141, 39
12 Vul	
EV Vul	Svechnikov, M.A., Kuznetsova, E.F. 1990, Katalog Priblizhennykh Fotometricheskikh i Absolyutnykh Elementov Zatmennykh Peremennykh Zvez
NU Cyg	Svechnikov, M.A., Kuznetsova, E.F. 1990, Katalog Priblizhennykh Fotometricheskikh i Absolyutnykh Elementov Zatmennykh Peremennykh Zvez
DO Vul	
V505 Sgr	Khalesseh, B., Hill, G. 1991, AAp, 244, 75
HR 7589	
AB Dra	
HR 7578	
V1454 Cyg	
AT Vul	Slonim, J. 1934, Bull. Tashkent Astr. Obs., 2, 31
SY Sge	Svechnikov, M.A., Kuznetsova, E.F. 1990, Katalog Priblizhennykh Fotometricheskikh i Absolyutnykh Elementov Zatmennykh Peremennykh Zvez
EY Cyg	
PSR 1953+29	
HR 7588	
phi Aql	
V724 Aql	Svechnikov, M.A., Kuznetsova, E.F. 1990, Katalog Priblizhennykh Fotometricheskikh i Absolyutnykh Elementov Zatmennykh Peremennykh Zvez
V725 Aql	
UU Aql	
V1356 Cyg	Svechnikov, M.A., Kuznetsova, E.F. 1990, Katalog Priblizhennykh Fotometricheskikh i Absolyutnykh Elementov Zatmennykh Peremennykh Zvez
V4140 Sgr	(Baptista, R., Jablonski, F.J., Steiner, J.E. 1989, MN, 241, 631)
V548 Cyg	Russo, G., Milano, L. 1983, AA, 33, 163
V1582 Cyg	(Unger, H. 1976, Sterne und Weltraum, 15, 412)
AW Sge	
V1357 Cyg	Gies, D.R., Bolton, C.T. 1986, ApJ, 304, 371; Dolan, D.F., Tapia, S. 1989, ApJ, 344, 830
the1 Sgr	
QX Sge	(van Paradijs, J.A., Allington-Smith, J., Callanan, P., Charles, P.A., Hassall, B.J.M., Machin, G., Mason, K.O., Naylor, T., Smale, A.P. 1988,

Name	Photometric solution
V1746 Cyg	
HD 189783	
V1028 Cyg	

Name	M1	M2	A	R1	R2	T1	T2	log L1	log L2	Distance	U	V	W
V1402 Aql	15.84 s	0.99 pi											
V337 Aql	18.12	9.80								1980. phi			
HD 177624													
BH Dra	2.09 s	1.07								270. phi			
HD 177559													
V805 Aql	2.11	1.63								161. phi			
HD 177762													
V525 Sgr													
DG Dra	2.82	0.37											
Y Aql	12.88	1.26								292. phi			
HR 7258	6.92 s	0.33 pi								393. s			
17 Lyr													
V478 Lyr													
MV Lyr	0.66	0.38 p								352. phi			
V1089 Sgr	0.89 p	0.72 p								543. p			
HD 178661	2.00 s	1.18 pi								174. s			
HR 7267	1.33 s	1.34 s								58.8 s			
HR 7257	2.62 s	2.65 s								189. s			
X1907+690													
QR Sge	15.84 s	0.62 pi											
V1343 Aql										5000. e			
FL Lyr	1.22	0.96											
V352 Aql	0.89 p	0.55 p								436. p			
V1315 Aql													
eta Lyr	9.12 s	0.23 pi								180. s			
psi Sgr	2.07	1.66								112. spi			
PSR 1913+16	1.4411	1.3874								8300. DM			
HR 7305B	3.02 s	1.05 pi								274. s			
1 Vul													
FO Aql	0.89 p	0.86 p											
V431 Sgr													
RS Vul	6.68	1.77											
HD 181144	1.19 s	0.54 pi								49.6 s			
U Sge	5.68	1.89								285. phi			
HR 7338	2.69 s	1.93								211. s			

Name	M1	M2	A	R1	R2	T1	T2	log L1	log L2	Distance	U	V	W
26 Aql													
ups Sgr													
GD 219													
Z Vul	5.36	2.19								458. phi			
V4138 Sgr													
V753 Cyg													
V1113 Cyg	0.89 p	0.72 p								692. p			
2 Sge	2.32 s	1.58								144. s			
DH Aql	0.89 p	0.47 p								319. p			
PW Vul													
V1741 Cyg													
V1918 Cyg													
V859 Cyg													
PR Tel													
TT Lyr													
V1504 Cyg	0.89 p	0.74 p								582. p			
V822 Aql	4.34	5.38											
WY Sge													
V4089 Sgr	3.50	1.71 s								180. phi			
KX Aql	0.71 p	0.28 p								364. p			
HN Cyg	0.71 p	0.28 p								379. p			
V795 Cyg	0.89 p	0.72 p								608. p			
V417 Aql													
51 Sgr													
NSV 12245	0.71 p	0.28 p								144. p			
V1289 Aql	0.89 p	0.55 p								367. p			
EM Cyg	0.48	0.60											
sig Aql	6.75	5.33								196. phi			
V1143 Cyg	1.39	1.34								39.7 phi			
QS Aql	4.60	1.20											
FY Vul	0.89 p	0.86 p								774. p			
V1285 Cyg	0.89 p									476. p			
LT Pav													
V3885 Sgr	0.56	0.86 p								207. p			
QY Vul	14.02	26.20								4370. g			

Name	M1	M2	A	R1	R2	T1	T2	log L1	log L2	Distance	U	V	W
OO Aql	1.04	0.88											
V688 Aql													
QT Sge	15.84 s	1.40 pi											
V811 Cyg	0.89 p	0.72 p											
V1765 Cyg	24.96	12.21								431. p			
V1339 Aql													
V542 Cyg	0.89 p	0.72 p											
HO Tel										449. p			
V380 Cyg	14.31	7.90											
12 Vul										1260. phi			
EV Vul													
NU Cyg													
DO Vul	0.71 p	0.28 p											
V505 Sgr	2.68	1.23								441. p			
HR 7589													
AB Dra	1.61 w	0.43 p											
HR 7578	0.85 se	0.85 se								442. p			
V1454 Cyg	0.89 p	0.72 p								12.3 spi			
AT Vul										653. p			
SY Sge													
EY Cyg													
PSR 1953+29													
HR 7588	2.13 s	1.42 s											
phi Aql	2.29 s	0.68 pi								122. s			
V724 Aql										82.5 s			
V725 Aql	0.71 p	0.28 p											
UU Aql	0.89 p	0.40 p								481. p			
V1356 Cyg										217. k			
V4140 Sgr													
V548 Cyg	2.31	0.84											
V1582 Cyg	0.79 s	0.79 s											
AW Sge	0.71 p	0.28 p								43.1 s			
V1357 Cyg	32.95	15.52								424. p			
the1 Sgr	7.59 s	0.54 pi											
QX Sge										199. s			

Name	M1	M2	A	R1	R2	T1	T2	log L1	log L2	Distance	U	V	W
V1746 Cyg													
HD 189783	1.20 s	1.13 s											
V1028 Cyg	0.89 p	0.72 p								85.8 s			
										441. p			

Name	Notes
V1402 Aql	Pphtm=1.94d? (van Genderen, et al. 1991, IAU Symp. 143, 129)
V337 Aql	
HD 177624	
BH Dra	del m=1.57V; *l3=0.029 V
HD 177559	
V805 Aql	del m=0.98; MV=+1.15
HD 177762	
V525 Sgr	
DG Dra	A5V+A5V, i=50.7, r1=0.538, r2=0.238, l1=0.836 (lc: Burke, E.W., Jr., Abt, H.A. 1974, PASP, 86, 677)
Y Aql	
HR 7258	
17 Lyr	
V478 Lyr	*Pphtm=2.185d-2.110d
MV Lyr	Twd=50000K
V1089 Sgr	UGSS
HD 178661	
HR 7267	
HR 7257	
X1907+690	AM; I>=19.5 in eclipse
QR Sge	
V1343 Aql	
FL Lyr	del m=0.67
V352 Aql	NL; nuc? PK 37-3°3 [Z And?]; very large IR excess: 0.49 Jy @ 12 mu-m
V1315 Aql	K1 from HeII lam4686, but V0 from Hbet and Hgam
eta Lyr	
psi Sgr	Vis. orb: P=18.75y, T=1953.77, a=0.153", e=0.468, i=83.3°, ome=167.9°, Ome=111.9° (Finsen, W.S. 1976, Circ. Inf., No. 69)
PSR 1913+16	*dP/dt=-2.425x10-12; U=85.17428y; M1+M2=2.828492; i, M1, M2 deduced from d/dt(ome1) and gam; dist from Damour,T., Taylor, J.H. 19
HR 7305B	
1 Vul	
FO Aql	UGSS
V431 Sgr	
RS Vul	del m=3.42
HD 181144	
U Sge	del m=2.4; (B-V)I=+0.80; (U-B)I=+0.28
HR 7338	del m=1.25

Name	Notes
26 Aql	
ups Sgr	
GD 219	
Z Vul	del m=1.09
V4138 Sgr	RS (Amp>=0.01V); *Pphtm=60.23d
V753 Cyg	P=0.952374d?; Alternative lc soln: F8+(F8), i=-, r1=0.24, r2=0.24, l1=0.50p, q=1.0
V1113 Cyg	UGSS
2 Sge	del m=0.65
DH Aql	UGSS
PW Vul	t3=97d
V1741 Cyg	*Prot=0.69d
V1918 Cyg	
V859 Cyg	
PR Tel	
TT Lyr	
V1504 Cyg	UGSU
V822 Aql	B5Vn+B8:V, i=85.9, r1=0.2566, r2=0.1545, l1=0.887 V (lc: Alduseva, V.Ya., Kovalenko, V.M. 1977, Astr. Tsirk., 956, p. 1)
WY Sge	
V4089 Sgr	Amp 0.13V
KX Aql	UG
HN Cyg	UG:; Flare star (Schimpke, T., Bruch, A. 1990, AG Abstract Ser., No. 4, p. 24); Mira vbl? (Munari, U., Claudi, R., Bianchini, A. 1990, IBVS 3
V795 Cyg	UGSS
V417 Aql	
51 Sgr	del Sct? (Amp 0.015V)
NSV 12245	UG:/I
V1289 Aql	NL:
EM Cyg	Twd<40000K
sig Aql	del m=0.81
V1143 Cyg	del m=0.17; U=10600y
QS Aql	*l3=0.714 v
FY Vul	UGZ
V1285 Cyg	SR, not UGZ: (Bruch, Aniol, Cunow 1987, AAp, 185, 203)
LT Pav	
V3885 Sgr	*K2 fm heated face of 2ry?
QY Vul	*K1 fm N V lines only

Name	Notes
OO Aql	
V688 Aql	[B0V]+[B1.5III-IV], i=84.9, r1=0.216, r2=0.246, l1=0.527 (lc: Kurpinska, M. 1974, Krakow Astr. Rep., 1, 25)
QT Sge	Amp 0.04V
V811 Cyg	UGSS
V1765 Cyg	del m~2; U=1930y
V1339 Aql	(Amp 0.20V)
V542 Cyg	UGSS
HO Tel	
V380 Cyg	del m=1.2; U~1490y
12 Vul	
EV Vul	
NU Cyg	
DO Vul	UG
V505 Sgr	del m=2.16 V; (B-V)I,II=+0.29,+0.11; (U-B)I,II=+0.10,+0.07
HR 7589	Var (del B=0.05)
AB Dra	
HR 7578	*Prot=16.5d
V1454 Cyg	UGSS
AT Vul	
SY Sge	
EY Cyg	
PSR 1953+29	DM=104.58
HR 7588	
phi Aql	
V724 Aql	
V725 Aql	UG
UU Aql	Twd<25000K
V1356 Cyg	B0V+(B1V), i=73.3, r1=0.341, r2=0.286, l1=0.640 p (lc: Bossen, H. 1971, IBVS 518)
V4140 Sgr	(B-V)min=+0.16; (U-B)min=-0.86
V548 Cyg	
V1582 Cyg	
AW Sge	UG
V1357 Cyg	Ome=292° P
the1 Sgr	
QX Sge	DM=29.1163; *dP/dt=-3.9+/-0.9x10-11

Name	Notes
V1746 Cyg	
HD 189783	Vis. orb: P=2356y, T=888., a=3.822", e=0.67, i=81.5°, ome=52.2°, Ome=162.0° (Hopmann, J. 1973, Mitt. Wien, No. 13)
V1028 Cyg	UGSS

Name	RA(1950)	μ(RA)	Dec(1950)	μ(Dec)	Pos Ref	FK4	SRS	AGK3	SAO	GC	l	b
RZ Sge	20 01 02.31		+16 54 23.3		McN86						056.42	-07.39
V477 Cyg	20 03 29.484	+0.13	+31 49 40.28	+1.0	AGK3			+31°1956	069381		069.38	+00.10
QQ Vul	20 03 30.7		+22 31 28.								061.53	-04.91
V1034 Cyg	20 03 35.37		+30 49 54.5		AC						068.54	-00.45
V1676 Cyg	20 04 04.633	-0.02	+35 38 38.28	-4.1	AGK3			+35°1945	069402	27892	072.65	+02.07
V1363 Cyg	20 04 15.760		+33 33 57.50		BFW87						070.93	+00.91
V448 Cyg	20 04 16.624	-0.11	+35 14 29.31	-0.6	AGK3			+35°1950	069410		072.33	+01.82
V453 Cyg	20 04 42.130	-0.07	+35 35 44.25	-2.6	AGK3			+35°1956	069422		072.68	+01.94
WZ Sge	20 05 20.57	+0.54	+17 33 30.0	-1.4	(D87)						057.52	-07.92
HD 191201	20 05 30.742	-0.08	+35 34 20.72	-1.4	AGK3			+35°1960	069446		072.75	+01.78
HD 191473	20 06 54.984	+0.03	+37 05 23.35	-0.9	AGK3			+37°1915	069498		074.18	+02.37
KR Cyg	20 07 05.122	+0.21	+30 24 10.57	-1.7	AGK3			+30°2052	069504		068.60	-01.32
HD 191567	20 07 20.809	+0.05	+35 20 10.51	-0.5	SAO				069512		072.75	+01.33
V346 Aql	20 07 35.981	+0.06	+10 12 05.66	-0.4	AGK3			+10°2617	105774		051.47	-12.26
V1769 Cyg	20 08 21.611	-0.05	+36 01 39.80	-1.5	AGK3			+36°1953	069541		073.45	+01.55
18 Vul	20 08 28.223	+0.11	+26 45 17.59	+1.3	Per70		44350	+26°2234	088295	27999	065.71	-03.57
the Aql	20 08 43.494	+0.236	-00 58 16.06	+0.72	FK4	756	30756		144150	28010	041.58	-18.08
V1770 Cyg	20 10 17.128	-0.03	+38 12 15.05	-2.1	AGK3			+38°1977	069592	28056	075.48	+02.43
HR 7721	20 10 31.573	+0.05	+47 35 10.07	+0.9	AGK3			+47°1536	049314	28062	083.37	+07.54
DR Vul	20 11 41.158	-0.07	+26 35 53.27	-1.6	AGK3			+26°2249	088380		065.97	-04.25
V1679 Cyg	20 12 39.405	+0.05	+36 30 28.15	-1.8	AGK3			+36°1973	069677		074.33	+01.09
KV Cyg	20 13 37.930	+0.14	+35 59 01.34	-2.5	AGK3			+35°1989			074.56	+00.98
V794 Aql	20 14 56.57		-03 49 11.9		McN86						039.70	-20.80
V1187 Cyg	20 14 57.75		+41 48 26.6		Pl77						078.97	+03.69
V1191 Cyg	20 15 06.37		+41 48 18.4		Pl77						078.98	+03.67
HD 193077	20 15 08.535	-0.11	+37 16 03.40	-2.4	AGK3			+37°1950	069755		075.23	+01.11
V699 Cyg	20 15 11.565		+38 58 59.53		AC						076.67	+02.06
BD +36°3991	20 15 37.961	-0.15	+37 09 09.05	-1.7	AGK3			+37°1951	069765		075.19	+00.96
V382 Cyg	20 16 53.877	+0.01	+36 10 59.54	-2.0	AGK3			+36°1991	069812		074.54	+00.21
V1773 Cyg	20 17 13.390	-0.14	+46 09 52.89	-0.1	AGK3			+46°1611	049462	28261	056.50	-12.19
BD +37°3881	20 17 16.236	-0.20	+37 36 41.93	-1.7	AGK3			+37°1960	069824		075.76	+00.95
EG Cep	20 17 16.981	+0.75	+76 39 10.91	+4.3	AGK3			+76°0792	009710		109.68	+21.76
V470 Cyg	20 17 35.404	-0.20	+40 43 47.71	-2.0	AGK3			+40°2011	049467		078.36	+02.08
V444 Cyg	20 17 42.595	-0.05	+38 34 24.27	-0.2	AGK3			+38°2015	069833		076.60	+01.43
V478 Cyg	20 17 48.291	-0.08	+38 10 39.06	-2.3	AGK3			+38°2016	069836		076.28	+01.19

Name	RA(1950)	μ(RA)	Dec(1950)	μ(Dec)	Pos Ref	FK4	SRS	AGK3	SAO	GC	l	b
V Sge	20 18 02.14		+20 56 38.6		W83						062.05	-08.60
HY Pav	20 18 07.63		-73 52 00.1		LG90						320.73	-32.38
bet Cap B	20 18 12.200	+0.273	-14 56 26.57	+0.28	FK4	762	30762		163481	28295	029.15	-26.37
NSV 13022	20 18 21.26		+21 00 58.5		AC						066.32	-14.33
V1687 Cyg	20 18 46.706	-0.11	+43 41 42.90	-1.2	AGK3			+43°1809	049491	28303	080.93	+04.18
DE Dra	20 18 46.789	+0.22	+62 05 53.62	+2.0	AGK3			+62°1140	018807	28304	096.48	+14.36
HD 193857	20 19 27.930	+0.12	+30 25 47.38	+1.4	AGK3			+30°2113	069888	28318	070.11	-03.51
HD 193928	20 19 38.906		+36 45 36.52		AC						075.33	+00.07
S 176	20 19 47.3		-21 17 31.								022.65	-29.10
V498 Cyg	20 21 21.22		+39 00 02.3		Pl77						077.35	+01.09
alp Pav	20 21 42.289	+0.186	-56 53 50.02	-8.50	FK4	764	30764		246574	28374	340.91	-35.19
V404 Cyg	20 22 06.37		+33 42 16.6								073.12	-02.09
V1776 Cyg	20 22 09.		+46 20 40.								083.45	+05.20
CM Del	20 22 39.93		+17 08 07.0		McN86						059.45	-11.63
HD 194495	20 22 58.190	-0.01	+21 19 29.54	-1.6	AGK3			+21°2167	088648	28405	063.03	-09.34
KK Tel	20 24 54.		-52 28 24.		GCVS						346.32	-35.78
V503 Cyg	20 25 34.760		+43 31 25.75		BFW87						081.50	+03.08
V388 Cyg	20 27 11.48		+31 13 07.3		Pl77						071.72	-04.41
V700 Cyg	20 29 13.983	-0.22	+38 36 55.18	-9.4	(AC)						077.96	-00.39
TU Ind	20 29 43.09		-45 36 15.9		L85						354.84	-36.37
TT Ind	20 29 46.		-56 44 00.		GCVS						341.02	-36.30
V1923 Cyg	20 30 17.9		+40 38 16.		WR						079.69	+00.66
V729 Cyg	20 30 34.848	-0.17	+41 08 04.04	+0.1	AGK3			+41°1922			080.12	+00.92
HD 195907	20 31 03.680	+0.02	+31 29 08.84	-0.8	AGK3			+31°2045	070181		072.43	-04.92
HR 7861	20 31 07.830	+0.057	+43 01 13.37	+1.82	FK4Sup	3644		+43°1846	049772	28604	081.69	+01.96
ST Ind	20 31 51.01		-48 29 40.6		AC						351.28	-36.86
47 Cyg	20 31 57.382	+0.01	+35 04 43.09	-1.0	AGK3			+35°2051	070203	28630	075.43	-02.93
HD 196133	20 31 58.405	+0.18	+45 00 11.99	+1.2	AGK3			+45°1715	049795	28631	083.37	+03.03
HO Del	20 34 36.		+12 53		GCVS						057.47	-16.39
GO Cyg	20 35 23.125	-0.07	+35 15 39.14	-2.3	AGK3			+35°2061	070279		075.99	-03.37
iot Del	20 35 25.553	+0.24	+11 12 07.03	-0.7	Per70		44438	+11°2529	106322	28711	056.13	-17.50
V747 Cyg	20 35 42.		+50 06 00.		GCVS						087.84	+05.59
DM Del	20 37 16.454	-0.14	+14 15 05.69	-3.4	AGK3			+14°2262	106356		059.02	-16.15
AE Aqr	20 37 34.27	+0.43	-01 02 56.8	+1.8	(W83)						045.28	-24.42
VW Cep	20 38 02.972	+8.84	+75 24 57.96	+55.7	AGK3			+75°0860	009828	28804	109.22	+20.06

Name	RA(1950)	μ(RA)	Dec(1950)	μ(Dec)	Pos Ref	FK4	SRS	AGK3	SAO	GC	l	b
HD 197010	20 38 19.779	-0.38	-00 46 31.92	-2.8	AGK3			-0°2673	144692		045.65	-24.45
TY Vul	20 39 35.		+25 24 36.		GCVS						068.65	-10.06
alp Cyg	20 39 43.539	+0.008	+45 06 03.12	+0.51	FK4	777			049941	28846	084.28	+02.00
V1696 Cyg	20 39 54.358		+52 24 29.00		AC						090.08	+06.48
HR Del	20 40 04.199	-0.012	+18 58 51.43	+0.22	( )						063.43	-13.97
AU Mic	20 42 03.756	+2.12	-31 31 05.29	-34.8	SAO				212402		012.66	-36.80
BU Vul	20 44 12.00		+28 04 40.8		AC						071.43	-09.25
V516 Cyg	20 45 20.750		+41 44 22.30		BFW87						082.30	-00.88
14 Del	20 47 21.142	+0.178	+07 40 37.88	+1.37	FK4Sup	3664	44481	+7°3011	126265	29039	054.75	-21.90
V1792 Cyg	20 49 35.426	+0.03	+37 48 03.70	-1.0	AGK3			+37°2038	070590	29098	079.77	-04.03
Y Cyg	20 50 03.571	+0.05	+34 28 07.77	-3.8	AGK3			+34°2089	070599	29114	077.25	-06.22
V751 Cyg	20 50 26.65		+44 08 04.5		McN86						084.74	-00.09
FZ Del	20 51 02.672	-0.15	+04 27 25.20	-1.2	AGK3			+4°2824			052.37	-24.43
WZ Cyg	20 51 12.122	+0.16	+38 38 16.09	+0.3	AGK3			+38°2110			080.62	-03.73
SU Ind	20 51 17.391	-0.14	-45 55 16.81	-0.1	Per70		2493		230428		354.58	-40.14
57 Cyg	20 51 28.521	+0.03	+44 11 49.78	+0.1	AGK3			+44°1845	050180	29150	084.90	-00.19
UY Vul	20 53 43.285		+26 29 18.20		BFW87						071.50	-11.90
KZ Pav	20 53 50.503	+0.22	-70 36 57.94	+2.0	SAO				257869	29214	323.52	-35.93
UZ Vul	20 54 33.190		+23 23 01.55		BFW87						069.14	-13.99
S Equ	20 54 43.193	+0.07	+04 53 13.36	-1.2	Per70		16474	+4°2839	126399		053.31	-24.96
HR 8023	20 54 48.837	+0.03	+44 43 53.95	+1.1	AGK3			+44°1858	050263	29241	085.70	-00.30
SV Equ	20 54 49.875	+0.11	+05 37 15.97	-0.5	AGK3			+5°3068	126402		054.01	-24.58
LS Del	20 54 53.056	+1.07	+19 27 18.84	+8.3	AGK3			+19°2119	106694		066.00	-16.48
VW Vul	20 55 34.01		+25 18 47.6		Sz85						070.84	-12.96
DV Aqr	20 55 55.845	-0.50	-14 40 39.39	-0.2	Per70		16487		164027	29265	033.64	-34.63
CG Cyg	20 56 13.18		+34 58 50.5		PI77						078.46	-06.87
eps Equ	20 56 34.570	-0.77	+04 06 02.09	-14.6	Per70		44512	+4°2845	126429	29276	052.87	-25.78
HR 8036	20 56 39.840	-0.12	+41 44 42.75	-0.3	AGK3			+41°1989	050303	29284	083.66	-02.51
V832 Cyg	20 58 07.395	+0.029	+47 19 30.08	+0.48	FK4	1551		+47°1680	050335	29327	068.03	+00.97
V1396 Cyg	20 58 08.601	+5.26	+39 52 39.58	-28.2	(AC)						082.43	-03.95
CK Aqr	20 58 18.		-11 15 36.		GCVS						037.69	-33.74
alp Oct	20 58 44.041	+0.275	-77 13 01.18	-36.36	FK4	787	30787		257879	29343	315.96	-33.65
AO Oct	20 59 25.		-75 33 18.		GCVS						317.75	-34.40
V1931 Cyg	20 59 26.089	-0.05	+45 57 31.22	+2.0	AGK3			+45°1797	050359	29354	087.15	-00.10

Name	Bayer	Flmstd	HR	HD	BD	CoD	CPD	Var	Other
RZ Sge								RZ Sge	157.1905
V477 Cyg				190786	+31°3932			V477 Cyg	
QQ Vul								QQ Vul	X2003+225 (E, H)
V1034 Cyg				333491	+30°3884			V1034 Cyg	BV 114
V1676 Cyg				190918	+35°3953			V1676 Cyg	CSV 102981; He 3-1828; LS II +35°33; MR
V1363 Cyg								V1363 Cyg	VV 279
V448 Cyg				190967	+34°3871			V448 Cyg	66.1939; LS II +35°37
V453 Cyg				227696	+35°3964			V453 Cyg	65.1939; NGC 6871-31
WZ Sge								WZ Sge	EG 136; HV 3518; N Sge 1913, 1946, 1978;
HD 191201				191201	+35°3970				LS II +35°43
HD 191473				191473	+36°3900				LS II +37°12
KR Cyg				333645	+30°3915			KR Cyg	327.1931
HD 191567				191567	+35°3994				LS II +35°53
V346 Aql				191515	+9°4425			V346 Aql	621.1935; SVS 641
V1769 Cyg				191765	+35°4001			V1769 Cyg	CSV 101949; He 3-1839; LS II +36°23; MR
18 Vul		18 Vul	7711	191747	+26°3815				NGC 6882-2
the Aql	the Aql	65 Aql	7710	191692	-1°3911				(13H Atl); 117G Aql
V1770 Cyg				192163	+37°3821			V1770 Cyg	CSV 102983; He 3-1849; LS II +38°11; MR
HR 7721			7721	192276	+47°3045				
DR Vul				339770	+26°3835			DR Vul	129.1935; P 5335
V1679 Cyg				192641	+36°3956			V1679 Cyg	CSV 102991; He 3-1856; LS II +36°38; NSV
KV Cyg				228602	+35°4038			KV Cyg	336.1929
V794 Aql								V794 Aql	499.1936; P 5349
V1187 Cyg								V1187 Cyg	LS III +41°11
V1191 Cyg								V1191 Cyg	
HD 193077				193077	+36°3987				CSV 101974; He 3-1866; LS II +37°43; MR
V699 Cyg								V699 Cyg	LS II +38°28; OV 25
BD +36°3991				228766	+36°3991				LS II +37°46
V382 Cyg				228854	+35°4062			V382 Cyg	169.1935; LS II +36°55
V1773 Cyg			7777	193536	+45°3139			V1773 Cyg	CSV 101979; NSV 13005; Zi 1902
BD +37°3881				193516	+37°3881				LS II +37°61; NSV 13007; MWC 339
EG Cep				194089	+76°0790			EG Cep	BV 200
V470 Cyg				228911	+40°4115			V470 Cyg	LS II +40°18
V444 Cyg				193576	+38°4010			V444 Cyg	He 3-1877; HV 11111; INCA 2442; LS II +3
V478 Cyg				193611	+37°3890			V478 Cyg	HV 11091; LS II +38°44

Name	Bayer	Flmstd	HR	HD	BD	CoD	CPD	Var	Other
V Sge								V Sge	21.1902; He 3-1879
HY Pav								HY Pav	S 7057
bet Cap B	bet Cap B	9 Cap B	7776	193495	-15°5629				6H Cap B; 14G Cap B; AFGL 2555; IRC -10
NSV 13022									NSV 13022
V1687 Cyg				193793	+43°3571			V1687 Cyg	INCA 1225; LS III +43°7; MR 107; NSV 13
DE Dra		71 Dra	7792	193964	+61°2000			DE Dra	S 10796
HD 193857				193857	+30°3998				
HD 193928				193928	+36°4028				He 3-1888; LS II +36°65; MR 108; NSV 130
S 176									S 176
V498 Cyg				229179	+38°4054			V498 Cyg	538.1936; LS II +39°43; P 5388
alp Pav	alp Pav		7790	193924		-57°07968	-57°09674		99G Pav; CSV 101983; NSV 13060; Zi 1906
V404 Cyg								V404 Cyg	100.1938; N Cyg 1938, 1989; X2022+337 (
V1776 Cyg								V1776 Cyg	Lanning 90
CM Del								CM Del	147.1930; P 2137
HD 194495				194495	+21°4203				
KK Tel								KK Tel	S 6888
V503 Cyg								V503 Cyg	S 4524
V388 Cyg				332329	+30°4051			V388 Cyg	171.1935
V700 Cyg								V700 Cyg	OV 26
TU Ind								TU Ind	S 6749
TT Ind								TT Ind	S 6899
V1923 Cyg								V1923 Cyg	AS 422; He 3-1907; MHalp 328-53; MR 111;
V729 Cyg					+40°4220			V729 Cyg	He 3-1908; INCA 1227; LS III +41°31
HD 195907				195907	+31°4126				LS II +31°27
HR 7861			7861	195986	+42°3778				
ST Ind						-48°13615		ST Ind	CSV 5198; S 5110
47 Cyg	1 Cyg	47 Cyg	7866	196093/4	+34°4079				23H Cyg; AFGL 2608; IRC +40433
HD 196133				196133	+44°3505				
HO Del								HO Del	S 10066
GO Cyg				196628	+34°4095			GO Cyg	437.1928
iot Del	iot Del	5 Del	7883	196544	+10°4339				4H Del
V747 Cyg								V747 Cyg	34.1934; CSV 5243; P 5444
DM Del					+13°4478			DM Del	137.1935; P 5443
AE Aqr								AE Aqr	342.1931; X2037-010 (1ES)
VW Cep				197433	+75°0752			VW Cep	G 261-28; GJ 1255AB; LFT 1558; X2038+7

Name	Bayer	Flmstd	HR	HD	BD	CoD	CPD	Var	Other
HD 197010				197010	-1°4025				X2038-007 (1E,1ES,MS)
TY Vul								TY Vul	38.1923
alp Cyg	alp Cyg	50 Cyg	7924	197345	+44°3541			alp Cyg	Deneb; 24H Cyg; AFGL 2633; CSV 102017;
V1696 Cyg				197406	+52°2777			V1696 Cyg	AS 438; LS III +52°2; MR 113; NSV 13240;
HR Del								HR Del	N Del 1967
AU Mic				197481		-31°17815	-31°06335	AU Mic	CSV 8565; Gl 803; Vys 824A
BU Vul				335198				BU Vul	P 5462; SVS 484
V516 Cyg								V516 Cyg	S 4530
14 Del		14 Del	7974	198391	+7°4556				20G Del; CSV 102031; NSV 13337; Zi 1953
V1792 Cyg				198784	+37°4076			V1792 Cyg	
Y Cyg				198846	+34°4184			Y Cyg	LS II +34°28
V751 Cyg								V751 Cyg	HRC 297; LkHalp 170; SVS 1202
FZ Del					+4°4568			FZ Del	BV 173
WZ Cyg					+38°4262			WZ Cyg	107.1905
SU Ind				198827		-46°13749	-46°10100	SU Ind	CSV 5294; S 5119
57 Cyg		57 Cyg	8001	199081	+43°3755				30H Cyg; CSV 102041; NSV 13388; Zi 1963
UY Vul								UY Vul	150.1904
KZ Pav				199005		-70°01798	-70°02812	KZ Pav	BV 482; CSV 5295; INCA 2716; S 5120
UZ Vul								UZ Vul	151.1904
S Equ				199454	+4°4584			S Equ	56.1916; HV 3412
HR 8023			8023	199579	+44°3639				LS III +44°28
SV Equ				199465	+5°4655			SV Equ	
LS Del				199497	+19°4574			LS Del	
VW Vul								VW Vul	153.1904; AFGL 5556S
DV Aqr			8024	199603	-15°5848			DV Aqr	27G Aqr; BV 623; CSV 8605
CG Cyg					+34°4217			CG Cyg	5.1922
eps Equ	eps Equ	1 Equ	8034	199766	+3°4473				1H Equ; 4G Equ
HR 8036			8036	199892	+41°3949				
V832 Cyg	fl Cyg	59 Cyg	8047	200120	+46°3133			V832 Cyg	32H Cyg; CSV 102049; LS III +47° 22; MW
V1396 Cyg					+40°0883			V1396 Cyg	G 210-48; Gl 815A; LFT 1591; Vys 200A; X
CK Aqr								CK Aqr	HV 6222
alp Oct	alp Oct		8021	199532		-77°01053	-77°01474		52G Oct
AO Oct								AO Oct	S 7103
V1931 Cyg		60 Cyg	8053	200310	+45°3364			V1931 Cyg	LS III +45°45; MWC 360

Name	Sp1	Sp2	T-JD 2400000	P	e	omel	V0	K1	K2	v1 sin i	v2 sin i
RZ Sge	sdBe	M2-4V		0.0673	0	-	-31.	~121.		867 e	
V477 Cyg	A3V	F3V	32847.0013	2.347045	0.2525 phi	138.33 phi	-10.	105.	140	64	50
QQ Vul			45234.9183	0.154520356	0	-	+17.		209		
V1034 Cyg	A0	(A8)	42938.459	0.976931							
V1676 Cyg	WN4.5	O9.5Ib:	31967.8	112.8	0.48	36	-2.18	38	10		123
V1363 Cyg		G-K		[0.227]							
V448 Cyg	B1Ib-II	O9.5(IV-V)	16363.296	6.5197162	0.038	34.5	-16.1	214.8	168	160:	
V453 Cyg	B0.5IV	B2(IV)	39340.0988	3.8898128	0	-	-14.	171	222	107	97
WZ Sge	DAQZ5e	(M6.5V)	37547.72845	0.0566878455	0	-	-77.	49		1179 Sh;	860 e; 58
HD 191201	B0III	B0III	24039.940	8.33425	0.2638	0.50	-5.44	156.97	168.5	115	95
HD 191473	B0IV	(B2V)	35430.78	4.2876	0.0447	134.18	-3.7	106.48		95	
KR Cyg	A2V		29106.413	0.8451517							
HD 191567	B0.5IV	[B1.5V]	44836.175	1.81855	0.0	-	-31.2	104.5	174.6	140	
V346 Aql	A0V		41918.384	1.106363							
V1769 Cyg	WN6		44804.15	7.44	0.	-	+86.	12.1			
18 Vul	A3III	[A3IV]	21105.50	9.314	0.0	-	-13.0	78.5	86.3	41	
the Aql	B9.5III	B9.5III	31636.344	17.12426	0.607	34.45	-27.94	51.01	63.68	63	
V1770 Cyg	WN6		45591.765	4.55	0.26	284	-114.:	30.			
HR 7721	B7V		30007.510	7.18584	0.005	146	-21.6	18.5			
DR Vul	B0V	B0.5V	40301.7934	2.2508645	0.098 phi	72.8 phi					
V1679 Cyg	WC7	OB	47441.	4400.:	0.16	142.0	-6.6	26.3	25.0		
KV Cyg	B1III		29468.389	2.8389936							
V794 Aql	sdBe			0.23:	0	-	-	~100.		531 Sh	
V1187 Cyg	B1V		38634.5462	7.535							
V1191 Cyg	[G5]	(F9)	38634.5471	0.313377							
HD 193077	WN6	B0[V]	45284.	1538.	0.29	271	-7.9	30.6	37.1		500
V699 Cyg	B2	(B8)	32708.664	1.55152							
BD +36°3991	O5.5[IV]f	O7.5I	41901.299	10.7424	0	-	-1.	150	156		
V382 Cyg	O6.5(V)	O7.5V	36814.7706	1.8855146	0	-	+9.2	269	384		
V1773 Cyg	B2V	B2V	24557.702	2.98474	0.07	110	-9.1	115.0	141.0		
BD +37°3881	BN0.7IVp	[B7V]	41884.48	4.0110	0.06	137	-23.0	46.9		100	
EG Cep	A3II		42594.3825	0.54462183							
V470 Cyg	B2Ve	B2(V)	42283.966	1.873142	0.056	112.7	-8.6	192.6	219.5		
V444 Cyg	O6-8III:	WN5.5	41164.332	4.212424	0	-	+22.	112	337		
V478 Cyg	O9.5Vp	B0V	41602.724	2.8808994	0	-	-15.	232	237		

Name	Sp1	Sp2	T-JD 2400000	P	e	omel	V0	K1	K2	v1 sin i	v2 sin i
V Sge	WN5	(F6-G0V)	37889.9136	0.5141980	0	-	+10.	320	85	645 Wi	
HY Pav	[G0]	(F8)	36730.464	0.3516							
bet Cap B	B8V	[F5V]	28383.379	8.677686	0.338	340.1	-18.95	35.06		54	115?
NSV 13022				[0.182]							
V1687 Cyg	WC7	O4-5V	46160.	2900.	0.84	32	-0.4	79.	28		90
DE Dra	B9V	[K4V]	42624.1698	5.298036	0.018	305	-5.1	51.3		0	
HD 193857	A6Vm	[M4V]	43369.856	4.343068	0.052	197.2	-20.9	21.0		<15.	
HD 193928	WN6	O	34719.77	21.64	0	-	+125.	128	133		
S 176	sdBe	G-K									
V498 Cyg	B1:III:		42633.406	3.4848355							
alp Pav	B0.5V	B2[V]	17550.62	11.753	0.0	-	+2.0	7.2		39	
V404 Cyg				0.182	0	-	-25.	33.		193 e	
V1776 Cyg	sdBe		47048.7925	0.16473857	0	-	-12.:	144.			
CM Del	sdBe		45171.873	0.162	0	-	+23.	155.		740 Sh	
HD 194495	B5V		28693.640	4.9052	0.133	54.5	+11.1	82.2			
KK Tel				0.084?							
V503 Cyg				0.07599							
V388 Cyg	A3		41953.3373	0.8590372							
V700 Cyg	F2	(F0)	44498.366	0.3400461							
TU Ind	sdBe			(0.208)							
TT Ind				(0.128)							
V1923 Cyg	WN7+WC4	[O9V]	44505.9	22.554	0	-	+81.9	155.0			
V729 Cyg	O7fla	O6(III)f	40413.796	6.597882	0	-	-33.	84	362		
HD 195907	B1.5Ve		44886.763	0.750721	0	-	-75.0	18.8		190	
HR 7861	B4III	[F1V]	28775.557	5.38275	0.069	57.1	-16.88	31.68			
ST Ind			44839.6967	0.40188233							
47 Cyg	K2Ib	B3V	24347.763	88.495	0.70	321	+1.3	20.6		<=50.	<25.
HD 196133	A2V:pSiSr		31669.080	87.687	0.7605	230.99	-9.028	32.473			
HO Del				(<0.575 ACP)							
GO Cyg	B9.5Vn	A0Vn	45865.4056	0.71776707	0	-	+3.2	133.2	156.2		
iot Del	A2V	[K6V]	22139.862	11.039	0.227	61.8	-4.92	26.02		48	
V747 Cyg				[0.182]							
DM Del	A2V	(G6V)	44501.3913	0.8446758							
AE Aqr	sdBe	K5IV-V	39030.830	0.4116580	0.0	-	-69.3	141	159.4	507 Sh;	550 e; 381
VW Cep	K0/1Ve	G5/6(V)	44157.4131	0.27831460	0	-	-7.9	66.2	242.7	163	95

Name	Sp1	Sp2	T-JD 2400000	P	e	omel	V0	K1	K2	v1 sin i	v2 sin i
HD 197010	F8V	(G8-9)	48282.88468	0.7101623						100	
TY Vul				[0.108]							
alp Cyg	A2Iae		26919.	846.8	0.60	318.3	-2.81	3.12		21	
V1696 Cyg	WN7	O: [B4V]	44825.9	4.317364	0.14	335	-134.	86			
HR Del	sdBe		43322.609	0.214165	0	-	-19.	109.8		302 e	
AU Mic	M1.6Ve			4.865							
BU Vul	G0	(K4.5)	33533.683	0.5689930							
V516 Cyg				(0.226 ACP)							
14 Del	A1Vs		26526.412	10.883	0.386	162.1	-30.2	31.4		32	
V1792 Cyg	B2V	[B8V]	31301.457	3.30353	0.018	294	-4.02	63.81			
Y Cyg	B0IV	B0IV	09453.4111	2.9963328	0.140	88.7	-57.5	244.2	234.4	137	121
V751 Cyg	sdBe			0.25?	0	-	-	75.			
FZ Del	F[5]	(K4IV)	31324.329	0.7832126							
WZ Cyg	F0V		40825.475	0.5844659							
SU Ind	F5/6V	(G7IV)	34267.489	0.986323							
57 Cyg	B5V	B5V	40019.82	2.854822	0.12	191.1	-14.5	108.5	123.7	69	
UY Vul	M			[0.108]							
KZ Pav	F0V	K1IV	44431.7546	0.9498768							
UZ Vul	M			[0.108]							
S Equ	B8V	F9III-IV	42596.69797	3.4360969	0.145	83.55	-47.95	23.40		52	
HR 8023	O6Ve	[B1V]	22892.612	48.608	0.0988	66.75	-5.78	42.22		170	
SV Equ	A0V	(A5.5)	39382.427	0.881							
LS Del	G5IV (G6V)	(G4V)	47778.4180	0.36383792							
VW Vul			45163.767	0.0731	0	-	+34.	97.		546 Sh	
DV Aqr	F0IV	(K2IV-V)	26160.500	1.575531	0	-	+10.3	95.5			
CG Cyg	G9.5V	K3V	39425.1221	0.63114100	0	-	+4.	125.	121	58	70
eps Equ	F5IV	[M5V]	40051.36	2.03133	0.17	51	+7.8	15.8		54	
HR 8036	B7III		40007.01	15.5143	0.34	178.4	-21.7	43.1		15	
V832 Cyg	B1IV:ne		46621.38	29.14?	0	-	+26.	53.4		374	
V1396 Cyg	dM3e (M2V)	(M4Ve)	45913.3307	3.276188	0	-	-32.94	40.08	57.61	< 10.	
CK Aqr				0.2833							
alp Oct	A7III	G2III	35302.404	9.073	0.39	276.22	+45.0	47.0	47.0	57	
AO Oct				[0.108]							
V1931 Cyg	B1Ve	(K IV-V)	24412.539	2.48257	0	-	-6.	23		300	

Name	Spectroscopic orbit
RZ Sge	Vojkhanskaya, N.F., Nazarenko, I.I. 1984, Pis'ma AZh, 10, 439 (Sov. Astr. Lett., 10, 183)
V477 Cyg	Popper, D.M. 1968, ApJ, 154, 191
QQ Vul	Mukai, K., Charles, P.A. 1987, MN, 226, 209
V1034 Cyg	
V1676 Cyg	Wilson, O.C. 1949, ApJ, 109, 76; Fraquelli, D.A., Bolton, C.T., Horn, J. 1987, unpub. (see Robert, et al. 1989, ApJ, 347, 1034)
V1363 Cyg	
V448 Cyg	Petrie, R.M. 1958, Pub. DAO, 10, 259
V453 Cyg	Popper, D.M., Hill, G. 1991, AJ, 101, 600
WZ Sge	Gilliland, R., Kemper, E., Suntzeff, N. 1986, ApJ, 301, 252
HD 191201	Plaskett, J.S. 1926, Pub. DAO, 3, 247
HD 191473	Mercier, J.P. 1957, J. Obs., 40, 12
KR Cyg	
HD 191567	Gies, D.R., Bolton, C.T. 1986, ApJ Suppl., 61, 419
V346 Aql	
V1769 Cyg	(Antokhin, I.I., Aslanov, A.A., Cherepashchuk, A.M. 1982, Pis'ma AZh, 8, 200 (1983 Sov. AJ Lett., 8, 156))
18 Vul	Luyten, W.J. 1936, ApJ, 84, 85
the Aql	Cesco, C.U., Struve, O. 1946, ApJ, 104, 282
V1770 Cyg	St.-Louis, N., Smith, L.J., Stevens, I.R., Willis, A.J., Garmany, C.D., Conti, P.S. 1989, AAp, 226, 249; Koenigsberger, G., Firmani, C., Bisiac
HR 7721	Hube, D.P., Lowe, A. 1980, JRASC, 74, 341
DR Vul	
V1679 Cyg	Annuk, K. 1991, IAU Symp. 143, 245
KV Cyg	
V794 Aql	Shafter, A.W. 1983, IBVS 2377
V1187 Cyg	
V1191 Cyg	
HD 193077	Annuk, K. 1989, Astrofiz., 30, 476 (1991, Astrophys., 30, 289)
V699 Cyg	
BD +36°3991	Massey, P., Conti, P.S. 1977, ApJ, 218, 431
V382 Cyg	Popper, D.M., Hill, G. 1991, AJ, 101, 600; Pearce, J.A. 1952, PASP, 64, 219
V1773 Cyg	Luyten, W.J. 1936, ApJ, 84, 85
BD +37°3881	Rogers, G.L. 1974, M.Sc. Thesis, U. Toronto
EG Cep	
V470 Cyg	Pearce, J.A. 1946, PASP, 58, 247
V444 Cyg	Underhill, A.B., Yang, S., Hill, G.M. 1988, PASP, 100, 741
V478 Cyg	Popper, D.M., Hill, G. 1991, AJ, 101, 600

Name	Spectroscopic orbit
V Sge	Herbig, G.H., et al. 1965, ApJ, 141, 617
HY Pav	
bet Cap B	Evans, D., Fekel, F.C. 1979, ApJ, 228, 497
NSV 13022	
V1687 Cyg	Williams, P.M., van der Hucht, K.A., Pollock, A.M.T., Florkowski, D.R., van der Woerd, H., Wamsteker, W.M. 1990, MN, 243, 662
DE Dra	Hube, D.P., Couch, J.S. 1982, ApSpSci, 81, 357
HD 193857	Hube, D.H. 1978, JRASC, 72, 319
HD 193928	Grandchamps, A., Moffat, A.F.J. 1991, IAU Symp. 143, 258
S 176	
V498 Cyg	
alp Pav	Luyten, W.J. 1936, ApJ, 84, 85
V404 Cyg	Wagner, R.M., Howell, S.B., Starrfield, S.G., Kreidl, T.J. 1991, paper presented at the San Diego Workshop on Cataclysmic Variables, San Dieg
V1776 Cyg	Garnavich, P., Szkody, P., Mateo, M., Feinswog, L., Booth, J., Goodrich, B., Miller, H.R., Carini, M., Wilson, J. 1990, ApJ, 365, 696
CM Del	Shafter, A.W. 1985, AJ, 90, 643
HD 194495	Shajn, G.A. 1939, Pulkovo Circ., No. 26-27, p. 74
KK Tel	
V503 Cyg	
V388 Cyg	
V700 Cyg	
TU Ind	
TT Ind	
V1923 Cyg	Massey, P., Grove, K. 1989, ApJ, 344, 870
V729 Cyg	Bohannan, B., Conti, P.S. 1976, ApJ, 204, 797
HD 195907	Gies, D.R., Bolton, C.T. 1986, ApJ Suppl., 61, 419
HR 7861	McKellar, A. 1938, Pub. DAO, 7, 115
ST Ind	
47 Cyg	Hendry, E.M. 1981, AJ, 86, 271
HD 196133	Northcott, R.J. 1948, AJ, 53, 116
HO Del	
GO Cyg	Pearce, J.A. 1933, JRASC, 27, 62
iot Del	Harper, W.E. 1935, Pub. DAO, 6, 207
V747 Cyg	
DM Del	
AE Aqr	Robinson, E.L., Shafter, A.W., Balachandran, S. 1991, ApJ, 374, 298; Chincarini, G., Walker, M.F. 1981, AAp, 104, 24
VW Cep	Hill, G. 1989, AAp, 218, 141

Name	Spectroscopic orbit
HD 197010	
TY Vul	
alp Cyg	Lucy, L.B. 1976, ApJ, 206, 499
V1696 Cyg	Drissen, L., et al. 1986, ApJ, 304, 188
HR Del	Kürster, M., Barwig, H. 1988, AAp, 199, 201
AU Mic	
BU Vul	
V516 Cyg	
14 Del	Shajn, G. 1933, Pulkovo Obs. Circ., No. 7, p. 16
V1792 Cyg	Jacobsen, T.S., Kraft, R.P. 1949, Pub. DAO, 8, 129
Y Cyg	Vitrichenko, E.A. 1971, Izv. Krym. Ap. Obs., 43, 71
V751 Cyg	Walker, M.F., Bell, M. 1980, BAAS, 12, 63
FZ Del	
WZ Cyg	
SU Ind	
57 Cyg	Abt, H.A., Levy, S.G. 1978, ApJ Suppl., 36, 241
UY Vul	
KZ Pav	
UZ Vul	
S Equ	Plavec, M. 1966, BAC, 17, 295
HR 8023	Plaskett, J.S. 1922, Pub. DAO, 2, 183
SV Equ	
LS Del	
VW Vul	Shafter, A.W. 1985, AJ, 90, 643
DV Aqr	Paffhausen, W., Seggewiss, W. 1976, AAp Suppl., 24, 29
CG Cyg	Naftilan, S.A., Milone, E.F. 1985, AJ, 90, 761
eps Equ	Abt, H.A., Levy, S.G. 1976, ApJ Suppl., 30, 273
HR 8036	Hube, D.P. 1978, PASP, 90, 584
V832 Cyg	Tarasov, A.E., Tuominen, I. 1987, Pub. Astr. Inst. Czech. Acad. Sci., 70, 127
V1396 Cyg	Duquennoy, A., Mayor, M. 1988, AAp, 200, 135
CK Aqr	
alp Oct	Buscombe, W., Morris, P.M. 1960, Obs., 80, 28
AO Oct	
V1931 Cyg	Harmanec, P., Horn, J., Koubsky, P., Bozic, H. 1986, IBVS 2912

Name	V	B-V	U-B	R-I	E(B-V)	par	Cluster	ADS	Vis Binary	Companions
RZ Sge	12.2 v	-0.04	-0.73		0.04					
V477 Cyg	8.508	+0.152	+0.073		0.02					
QQ Vul	14.86	+0.12	-0.94		0.0 u				A	V=18.06, V-R=+1.21, R-I=+0.69,
V1034 Cyg	9.6 p									
V1676 Cyg	6.70	0.00	+0.09	+0.09	0.29 u	0.028	NGC 6871	13374 A	bet 440 A; bet 429 A; S,h 314 A	
V1363 Cyg	13.0 p				0.09 m					
V448 Cyg	8.04	+0.41	-0.56				NGC 6871			12.0V, B3V, 6.5"; 11.0, 11"; 7.91V,
V453 Cyg	8.298	+0.188	-0.670		0.47		NGC 6871			
WZ Sge	7.7 v				0.00 u	0.011			Jef	
HD 191201	7.23 D	+0.13	-0.79		0.42		Cyg OB3	13405 A	A 280 A; OSig 398	9.7, 0.9"; 14.6, 5.4"
HD 191473	8.63	+0.12	-0.70		0.44		Cyg OB1			
KR Cyg	9.19									
HD 191567	7.16	+0.10			0.37		Bi 2	13429 A	Sig 2639 A; Sei 923 A	
V346 Aql	9.0 p							13438 A	A 1199 A	11.4, 2.3"; 12.1, 49.3"
V1769 Cyg	8.23	+0.22	+0.02		0.36 u	-0.003	Cyg OB3			
18 Vul	5.52	+0.08	+0.13		0.00	0.002	(NGC 6882)			
the Aql	3.23	-0.07	-0.14	-0.05	0.00	0.012			H VI 27 A	12.8, 113.7"
V1770 Cyg	7.65	+0.25	+0.02		0.64 u		Cyg OB1			
HR 7721	6.92	-0.12	-0.45							
DR Vul	8.637	+0.256	-0.641							
V1679 Cyg	8.21	+0.16			0.65 u		Cyg OB1		bet pm A	9.9, 113.6"
KV Cyg	9.84	+0.57	-0.30				Cyg OB1			
V794 Aql	14.75	+0.15	-0.85		0.00 u					
V1187 Cyg	10.88	+0.57	-0.35				Cyg OB8			
V1191 Cyg	10.82	+0.63	+0.08							13, 11"; 13, 11"
HD 193077	8.11	+0.22	+0.22		0.64 u		Cyg OB1	13641 A	A 1423 A	
V699 Cyg	12.0 p									
BD +36°3991	9.13	+0.63	-0.38		0.99		(Cyg OB1)			
V382 Cyg	8.41	+0.62	-0.32		0.98		Cyg OB1		Sei 1077 A	11.4, 11.4"
V1773 Cyg	6.45	-0.13	-0.69		0.11					
BD +37°3881	8.61	+0.56			0.82		Do 41?			
EG Cep	9.36	+0.23								
V470 Cyg	8.54				0.73 m		Cyg OB9			
V444 Cyg	8.13	+0.36	+0.34		0.87 u		Be 86			
V478 Cyg	8.635						Cyg OB1; (Do 42)	13711 A	A 1426 A	14.5, 3.3"

Name	V	B-V	U-B	R-I	E(B-V)	par	Cluster	ADS	Vis Binary	Companions
V Sge	11.59	+0.02	-0.93		0.15 u					14.40V, A3, 9.7"
HY Pav	11.4 p									
bet Cap B	3.08 D	+0.79	+0.28	+0.50	0.00	D0.0104			Sig I 52 B (orb)	3.27, +1.04, +0.89, KOII-III, 0.050"
NSV 13022	10.5 p				0.05 m					
V1687 Cyg	7.10	+0.29	-0.35		0.88 u	0.0097		13736 A	bet 1207 A	del m=7.6, 5.8"
DE Dra	5.72	-0.05	-0.22		0.00					0.153"
HD 193857	6.73	+0.25	+0.19	+0.09	0.07					
HD 193928	10.12	+0.72	+0.57		1.22		Cyg OB1		bet pm B	
S 176	12.5 v									
V498 Cyg	9.98	+1.02	+0.08				Cyg OB9			
alp Pav	1.94	-0.20	-0.71	-0.16	0.09				h 5193 A	9.0, 245.4"
V404 Cyg	11.5: p									R~20, 1.4"
V1776 Cyg	16.7	+0.58								
CM Del	13.80	+0.20	-0.68		0.08 u					
HD 194495	7.09 v									
KK Tel	13.5 p				0.15					
V503 Cyg	13.4 p				0.0 u					
V388 Cyg	8.9 v									
V700 Cyg	11.9 B									
TU Ind	12.9 B				0.04					
TT Ind	12.91	-0.04	-0.78		0.00					
V1923 Cyg	12.54	+1.62	+1.24		2.24		Cyg OB2			
V729 Cyg	9.05	+1.72	+0.60		2.03		Cyg OB2			
HD 195907	7.82	+0.03	-0.74							
HR 7861	6.60	-0.11	-0.56		0.09					
ST Ind	11.23	+0.50								
47 Cyg	4.61	+1.60	+0.78	+0.99	0.56	0.002	<Ru 173>		Hynek 94 A	del m=5.6, 117.6"
HD 196133	6.69	+0.03	+0.02					14027 A	Sig 2700 A	del m=1.8, 23.9"
HO Del	13.6 p				0.09 m					
GO Cyg	8.09	+0.10			0.12		Ru 173?			
iot Del	5.43	+0.06	+0.04	+0.02	0.00	0.024				
V747 Cyg	11.7 p				0.13 m					
DM Del	8.58				0.08 m					
AE Aqr	11.47	+0.87	+0.09		0.00 u	0.019				
VW Cep	7.23	+0.85	+0.43		0.00	0.041; D0.041			hz 7 A (orb)	10.3, 0.51"; 10.5v, 0.63"

Name	V	B-V	U-B	R-I	E(B-V)	par	Cluster	ADS	Vis Binary	Companions
HD 197010	9.04	+0.64	+0.06	+0.38						
TY Vul	14. p				0.15 m					
alp Cyg	1.25	+0.09	-0.24	+0.10		-0.006	<Cyg OB7>	14172 A	H N 73 A	del m=10.0, 75.4"
V1696 Cyg	10.45	+0.36	+0.26		0.68					
HR Del	12.06	+0.03	-0.89		0.15 u					
AU Mic	8.61	+1.44		+0.84C		0.113			LDS 720 A	(10.83V, M4.5Ve + 10.9V, M4.5Ve,
BU Vul	10.6 p									
V516 Cyg	13.8 p				0.18 m					
14 Del	6.33	+0.02	-0.02							
V1792 Cyg	7.29	+0.07	-0.50		0.36		Ro 7?			
Y Cyg	7.32	-0.06	-0.92		0.23	0.001				
V751 Cyg	14.03	+0.33	-0.65							
FZ Del	10.2 p									
WZ Cyg	10.5 p									
SU Ind	9.55	+0.49								
57 Cyg	4.78	-0.14	-0.58	-0.13	0.01					
UY Vul	13.0 p				0.10 m					
KZ Pav	7.71	+0.44				0.010			h 5231 A	8.7, 6.69"; 9.2, 5.9"
UZ Vul	14. p				0.11 m					
S Equ	8.0				0.07					
HR 8023	5.96	+0.05	-0.85		0.37		Cyg OB7			
SV Equ	9.25									
LS Del	8.73	+0.89			0.10					
VW Vul	13.58	+0.12	-0.47		0.15 u					
DV Aqr	5.95	+0.23	+0.11		0.00					
CG Cyg	9.73	+0.87			0.02					11.8, 1.3"
eps Equ	5.23 D	+0.46	+0.02	+0.28	0.00	0.021; D0.020		14499 A	Sig 2737 A (orb)	6.3, F7IV, 0.647"; 7.2v, G0V, 11"
HR 8036	6.16	-0.08	-0.46							
V832 Cyg	4.74	-0.05	-0.94	-0.01				14526 A	Sig 2743 A	9.38V, +0.22, +0.04, A8III, 20.1";
V1396 Cyg	10.12 D	+1.517	+1.08	+0.91		0.063			Kui 103 A (orb)	11.92V, M3.5V, 0.1127", P=29.33y
CK Aqr	12.90	+0.70	+0.08:							
alp Oct	5.15	+0.49	+0.13		0.08	0.025				
AO Oct	13.5 p				0.12 m					
V1931 Cyg	5.37	-0.19	-0.94		0.03		Cyg OB7	14549 A	OSig 426 A	9.96, 2.6"

Name	Vbl type	Min I	Min II	D	d	i	r1	r2	l1	qph
RZ Sge	UGSU	17.42 bet				71.42 we				
V477 Cyg	EA/DM	9.34	8.69	0.07; 0.09	0.0003	87.41	0.1372	0.1065	0.8600 V	
QQ Vul	XM	17.0 B				60.				
V1034 Cyg	EB/SD:	10.6 p	9.9 p			87.5	0.343	0.321	0.74 p	0.55
V1676 Cyg	WR					165. P		1.11 ome		
V1363 Cyg	UGZ	> 17.6 p				57.63 pi				
V448 Cyg	EB/SD	8.75 p	8.42 p			78.92	0.4415	0.1725	0.665 V	
V453 Cyg	EA/D	8.726	8.681	0.15; 0.15	0.028; 0.028	86.1	0.294	0.178	0.744 V	
WZ Sge	UGSU+E+ZZ	14.94		[0.0335]		76.2				~0.135
HD 191201						54.16 s	0.257 ome	0.212 ome	0.61 s	
HD 191473						62.27 pi				
KR Cyg	EB	10.00	9.37			86.39	0.424	0.293	0.989 V	0.4787
HD 191567						31.38 s	0.502 ome			
V346 Aql	EA/SD	10.1 p	9.1 p	0.19		87.7	0.300	0.273	0.930 B	0.3
V1769 Cyg	EA/D/WR									
18 Vul						80.13 se	0.25 ome			
the Aql						37.91 s	0.165 ome		0.76 s	
V1770 Cyg	E:/WR									
HR 7721										
DR Vul	EA/DM	9.27	9.19	0.150; 0.132		88.3	0.227	0.206	0.479 V*	
V1679 Cyg	WR									
KV Cyg	EB/SD	(1.115 p)	(0.395 p)			90.	0.475	0.195	0.92 p	0.51
V794 Aql	NL	20.2 B								
V1187 Cyg	EA/DM	11.23	11.19	0.03		83.	0.117	0.092	0.64 V	0.68
V1191 Cyg	EW/KW	11.15	11.11			68.	0.426	0.293	0.64 V	0.58
HD 193077	-							5.08 ome		
V699 Cyg	EA	13.0 p		0.21		80.5	0.403	0.272	0.93 p	0.30
BD +36°3991						39.12 s				
V382 Cyg	EB	9.78 B	9.74 B			83.7	0.404	0.366	0.577 V	
V1773 Cyg	ELL					39.83 s			0.58 s	
BD +37°3881	-					47.28 pi				
EG Cep	EB	10.21	9.61			86.6	0.426	0.303	0.9647 V	0.55:
V470 Cyg	ELL/DM	(0.1 p)	(0.05 p)	0.18	0.00	50.4	0.2079	0.2477	0.523 V	
V444 Cyg	EA/WR	8.60 p	8.44 p	0.20; 0.10	0.000	78.8 P	0.250	0.073	0.777 V	
V478 Cyg	EA/DM	(0.4 p)	(0.4 p)	0.17	0.00	78.02	0.276	0.263	0.537	

Name	Vbl type	Min I	Min II	D	d	i	r1	r2	l1	qph
V Sge	E+NL	13.9 v				81.	0.34	0.26	0.700 U	
HY Pav	EW/KW	12.3 p	12.1 p			85.	0.455	0.270	0.69 p	0.43
bet Cap B						43.91 s				
NSV 13022	NL:	11.5 p				57.63 pi				
V1687 Cyg	WR					37.72 s		0.089 ome		
DE Dra	EA/DM	5.92				86.5	0.143	0.054	1.00	
HD 193857						54.51 pi				
HD 193928	-					71.7 P				
S 176										
V498 Cyg	EA/DM	10.75	10.27	0.20		78.83	0.258	0.347	0.5920 V	
alp Pav	-					3.94 s				
V404 Cyg	N	18.3:								
V1776 Cyg	NL	17.5		[0.074]						
CM Del	IS	15.3								
HD 194495										
KK Tel	UG	19.7: B				57.63 pi				
V503 Cyg	UGSS	17.40				57.63 pi				
V388 Cyg	EB/KE:	9.55	9.15		0.06	82.4	0.471	0.288	0.945 bol	0.358
V700 Cyg	EW/KW	12.4 B	12.3 B			74.	0.433	0.287	0.64 p	0.54
TU Ind	UG	15.32				57.63 pi				
TT Ind	UGZ	> 16.5 p				57.63 pi				
V1923 Cyg	WR									
V729 Cyg	EB/D/GS	9.37	9.29			68.18	0.5228	0.2757	0.8758 y	
HD 195907										
HR 7861						50.49 pi				
ST Ind	EW/KW	11.70	11.70			76.4	0.505	0.2485	0.805 y	0.24
47 Cyg						16.76 s				
HD 196133										
HO Del	UG	> 17.2 p				57.63 pi				
GO Cyg	EB/KE	8.62:	8.19:			63.	0.439	0.395	0.320 V	
iot Del										
V747 Cyg	NL:	12.5 p				57.63 pi				
DM Del	EB/KE	9.09	8.78			88.2	0.501	0.267	0.9630 V	0.256
AE Aqr	XP					<62.				
VW Cep	EW/KW	7.68	7.56			65.0	0.496	0.267	0.670 V*	

Name	Vbl type	Min I	Min II	D	d	i	r1	r2	l1	qph
HD 197010		9.42	9.20			68.	0.31	0.31	0.75 bol	(0.7)
TY Vul	UG	19: p				57.63 pi				
alp Cyg	ACYG									
V1696 Cyg	Unique	(0.1 p)				66.6				
HR Del	NB					38.5				
AU Mic	BY+UV									
BU Vul	EA/SD	11.4 p		0.20		87.	0.343	0.211	0.95 p	0.62
V516 Cyg	UGSS	16.8 p				57.63 pi				
14 Del	-									
V1792 Cyg	ELL					55.10 pi				
Y Cyg	EA/DM	7.90	7.75	0.10	0.000	86.4	0.182	0.237	0.461	
V751 Cyg	Unique									
FZ Del	EA/SD	11.3 p		0.15		81.5	0.325	0.285	0.96 p	0.35
WZ Cyg	EB/K:	11.5 p	10.9 p			84.9	0.435	0.339	0.794 v	
SU Ind	EB/DW	(0.4 v)	(0.2: v)			74.	0.265	0.330	0.69 v	0.62
57 Cyg	-					46.34 s	0.275 ome		0.42 s	
UY Vul	UG:	> 16. p				57.63 pi				
KZ Pav	EA/SD	9.30		0.18		85.	0.281	0.282	0.89 V	0.34
UZ Vul	UG:	> 16. p				57.63 pi				
S Equ	EA/SD	10.08	8.11	0.13		87.4	0.195	0.212	0.937 V	0.12
HR 8023						56.40 pi				
SV Equ	EW/KE	(0.20)				60.	0.400	0.349	0.69 V	0.76
LS Del	EW/KW	8.89	8.87			48.09	0.428	0.330	0.616 V	0.571
VW Vul	UGZ	15.65				43.10 w				
DV Aqr	EB/DS	6.25	6.1			70.	0.350	0.243	0.95 V	0.60
CG Cyg	EA/SD/RS	10.86:	10.10-10.44	0.13		82.8	0.241	0.226	0.745 V*	
eps Equ						48.28 pi				
HR 8036										
V832 Cyg	GCAS									
V1396 Cyg	UV+BY:						<0.10 ome			
CK Aqr	DSCT	13.47	13.38		0.065					
alp Oct						31.93 s	0.33 ome			
AO Oct	UG:	21. p				57.63 pi				
V1931 Cyg	E+BE	5.48	v. shallow	0.18	0.13:	90.0	0.409	0.127	1.00 V	

Name	Photometric solution
RZ Sge	
V477 Cyg	Budding, E. 1974, ApSpSci, 26, 371
QQ Vul	Wickramasinghe, D.T. 1991, paper presented at the San Diego Workshop on Cataclysmic Variables, San Diego, California
V1034 Cyg	Svechnikov, M.A., Kuznetsova, E.F. 1990, Katalog Priblizhennykh Fotometricheskikh i Absolyutnykh Elementov Zatmennykh Peremennykh Zvez
V1676 Cyg	Robert, C., Moffat, A.F.J., Bastien, P., Drissen, L., St.-Louis, N. 1989, ApJ, 347, 1034
V1363 Cyg	
V448 Cyg	Kumsiashvili, M.I. 1969, Soob. Akad. Nauk Gruzinskoi SSR, 56, 297
V453 Cyg	Cester, B., et al. 1978, AAp Suppl., 33, 91
WZ Sge	(Robinson, E.L., Nather, R.E., Patterson, J. 1978, ApJ, 219, 168)
HD 191201	
HD 191473	
KR Cyg	Wilson, R.E., Rafert, J.B. 1980, AAp Suppl., 42, 195
HD 191567	
V346 Aql	Giuricin, G., Mardirossian, F. 1981, AAp Suppl., 45, 85
V1769 Cyg	(Antokhin, I.I., Aslanov, A.A., Cherepashchuk, A.M. 1982, Pis'ma AZh, 8, 290 [1983, Sov. Astr. Lett., 8, 156])
18 Vul	
the Aql	
V1770 Cyg	(Aslanov, A.A. 1982, Astr. Tsirk., No. 1238, p. 5)
HR 7721	
DR Vul	Khaliullina, A.I., Khaliullin, Kh.F. 1988, AZh, 65, 108 (1988, Sov. Astr., 32, 56)
V1679 Cyg	
KV Cyg	Svechnikov, M.A., Kuznetsova, E.F. 1990, Katalog Priblizhennykh Fotometricheskikh i Absolyutnykh Elementov Zatmennykh Peremennykh Zvez
V794 Aql	
V1187 Cyg	Svechnikov, M.A., Kuznetsova, E.F. 1990, Katalog Priblizhennykh Fotometricheskikh i Absolyutnykh Elementov Zatmennykh Peremennykh Zvez
V1191 Cyg	Svechnikov, M.A., Kuznetsova, E.F. 1990, Katalog Priblizhennykh Fotometricheskikh i Absolyutnykh Elementov Zatmennykh Peremennykh Zvez
HD 193077	
V699 Cyg	Svechnikov, M.A., Kuznetsova, E.F. 1990, Katalog Priblizhennykh Fotometricheskikh i Absolyutnykh Elementov Zatmennykh Peremennykh Zvez
BD +36°3991	
V382 Cyg	Cester, B., et al. 1978, AAp Suppl., 33, 91
V1773 Cyg	
BD +37°3881	
EG Cep	Kaluzny, J., Semeniuk, I. 1984, AA, 34, 433
V470 Cyg	Russo, G., Milano, L., Maceroni, C. 1982, AAp, 108, 368
V444 Cyg	Robert, C., Moffat, A.F.J., Bastien, P., Drissen, L., St.-Louis, N. 1989, ApJ, in press; Cherepashchuk, A.M., Khaliullin, Kh.F. 1973, Sov. Astr
V478 Cyg	Sezer, C., et al. 1983, AAp Suppl., 53, 363

Name	Photometric solution
V Sge	Herbig, G.H., et al. 1965, ApJ, 141, 617
HY Pav	Svechnikov, M.A., Kuznetsova, E.F. 1990, Katalog Priblizhennykh Fotometricheskikh i Absolyutnykh Elementov Zatmennykh Peremennykh Zvez
bet Cap B	
NSV 13022	
V1687 Cyg	
DE Dra	Meinunger, L. 1979, MVS, 8, 105
HD 193857	
HD 193928	Grandchamps, A., Moffat, A.F.J. 1991, IAU Symp. 143, 258
S 176	
V498 Cyg	Magalashvili, N.L., Kumsishvili, Ya.I. 1978, Byull. Abastumani Astrofiz. Obs., no. 49, p. 3
alp Pav	
V404 Cyg	
V1776 Cyg	(Garnavich, P., Szkody, P., Mateo, M., Feinswog, L., Booth, J., Goodrich, B., Miller, H.R., Carini, M., Wilson, J. 1990, ApJ, 365, 697)
CM Del	
HD 194495	
KK Tel	
V503 Cyg	
V388 Cyg	Milano, L., Russo, G. 1983, MN, 203, 235
V700 Cyg	Svechnikov, M.A., Kuznetsova, E.F. 1990, Katalog Priblizhennykh Fotometricheskikh i Absolyutnykh Elementov Zatmennykh Peremennykh Zvez
TU Ind	
TT Ind	
V1923 Cyg	
V729 Cyg	Leung, K.-C., Schneider, D.P. 1978, ApJ, 224, 565
HD 195907	
HR 7861	
ST Ind	Walter, K., Niarchos, P.G., Duerbeck, H.W. 1989, ApSpSci, 161, 1
47 Cyg	
HD 196133	
HO Del	
GO Cyg	Mannino, G. 1963, Mem. SAIt, 34, 191
iot Del	
V747 Cyg	
DM Del	Güdür, N., Sezer, C., Gülmen, Ö. 1987, Astr. Ap. Suppl., 67, 87
AE Aqr	Patterson, J. 1979, ApJ, 234, 978
VW Cep	Hill, G. 1989, AAp, 218, 141

Name	Photometric solution
HD 197010	Robb, R.M., Dean, F.W., Scarfe, C.D. 1990, IBVS 3536
TY Vul	
alp Cyg	
V1696 Cyg	Drissen, L., et al. 1986, ApJ, 304, 188
HR Del	Solf, J. 1983, ApJ, 273, 647
AU Mic	
BU Vul	Svechnikov, M.A., Kuznetsova, E.F. 1990, Katalog Priblizhennykh Fotometricheskikh i Absolyutnykh Elementov Zatmennykh Peremennykh Zvez
V516 Cyg	
14 Del	
V1792 Cyg	
Y Cyg	Giuricin, G., Mardirossian, F., Mezzetti, M. 1980, AAp Suppl., 39, 255
V751 Cyg	
FZ Del	Svechnikov, M.A., Kuznetsova, E.F. 1990, Katalog Priblizhennykh Fotometricheskikh i Absolyutnykh Elementov Zatmennykh Peremennykh Zvez
WZ Cyg	Shapley, H. 1915, Contr. Princeton Obs., No. 3
SU Ind	Svechnikov, M.A., Kuznetsova, E.F. 1990, Katalog Priblizhennykh Fotometricheskikh i Absolyutnykh Elementov Zatmennykh Peremennykh Zvez
57 Cyg	
UY Vul	
KZ Pav	Svechnikov, M.A., Kuznetsova, E.F. 1990, Katalog Priblizhennykh Fotometricheskikh i Absolyutnykh Elementov Zatmennykh Peremennykh Zvez
UZ Vul	
S Equ	Cester, B., et al. 1979, AAp Suppl., 36, 273
HR 8023	
SV Equ	Svechnikov, M.A., Kuznetsova, E.F. 1990, Katalog Priblizhennykh Fotometricheskikh i Absolyutnykh Elementov Zatmennykh Peremennykh Zvez
LS Del	Sezer, C., Gülmen, Ö., Güdür, N. 1985, ApSpSci, 115, 309
VW Vul	
DV Aqr	Okazaki, A., et al. 1985, PASP, 97, 62
CG Cyg	Budding, E., Zeilik, M. 1987, ApJ, 319, 827
eps Equ	
HR 8036	
V832 Cyg	(Hadrava, P., Harmanec, P., Horn, J., Koubsky, P., Krtz, S., Bozic, H., Percy, J.R. 1989, IBVS 3386)
V1396 Cyg	
CK Aqr	(Le Borgne, J.F., Poretti, E., Figer, A. 1989, IBVS 3316)
alp Oct	
AO Oct	
V1931 Cyg	(Harmanec, P., Horn, J., Koubsky, P., Bozic, H. 1986, IBVS 2912)

Name	M1	M2	A	R1	R2	T1	T2	log L1	log L2	Distance	U	V	W
RZ Sge	0.30 w	0.146 p								161. p			
V477 Cyg	1.86	1.39								219. phi			
QQ Vul	0.65	0.46 p											
V1034 Cyg													
V1676 Cyg	10.49	39.85								2090. g			
V1363 Cyg	0.89 p	0.74 p								489. p			
V448 Cyg	17.56	22.45											
V453 Cyg	13.92	10.72											
WZ Sge	0.40	0.053								90.9 pi			
HD 191201	26.03 s	24.24 s								2200. s			
HD 191473	21.88 s	9.04 pi								2300. s			
KR Cyg													
HD 191567	18.20 s	10.89								1230. s			
V346 Aql													
V1769 Cyg	15.84 s									2090. g			
18 Vul	2.37 s	2.16								129. s			
the Aql	3.22 s	2.58 s								70.2 s			
V1770 Cyg										1820. g			
HR 7721													
DR Vul													
V1679 Cyg										1820. g			
KV Cyg													
V794 Aql													
V1187 Cyg													
V1191 Cyg													
HD 193077										1820. g			
V699 Cyg													
BD +36°3991	64.87	62.37 s								4310. s			
V382 Cyg	32.58	22.82											
V1773 Cyg	10.82 s	8.83 s								746. s			
BD +37°3881	16.90 s	3.56 pi								1070. s			
EG Cep													
V470 Cyg	15.74	13.81								808. phi			
V444 Cyg	31.41	10.44											
V478 Cyg	16.62	16.27											

Name	M1	M2	A	R1	R2	T1	T2	log L1	log L2	Distance	U	V	W
V Sge	0.77	2.90											
HY Pav													
bet Cap B	3.02 s	1.20 d								96.2 pi			
NSV 13022	0.89 p	0.55 p								149. p			
V1687 Cyg	40.31	73.28 s											
DE Dra	2.57 s	0.98								120. phi			
HD 193857	1.74 s	0.32 pi								76.2 s			
HD 193928	23.74	22.84								1820. g			
S 176													
V498 Cyg													
alp Pav	16.03 s	9.77 s								134. s			
V404 Cyg													
V1776 Cyg													
CM Del													
HD 194495													
KK Tel	0.89 p	0.54 p								788. k			
V503 Cyg													
V388 Cyg													
V700 Cyg													
TU Ind	0.89 p	0.66 p								490. p			
TT Ind	0.89 p	0.36 p								484. p			
V1923 Cyg	15.84 s									1820. g			
V729 Cyg	61.53	14.28								1230. phi			
HD 195907													
HR 7861	7.00 s	1.39 pi								544. s			
ST Ind													
47 Cyg	9.55 s	6.92 s								286. s			
HD 196133													
HO Del	0.71 p	0.28 p								499. p			
GO Cyg	1.38	1.18								236. phi			
iot Del	2.09 s									67.1 s			
V747 Cyg	0.89 p	0.55 p								224. p			
DM Del	2.09 s	0.53 phi								337. phi			
AE Aqr													
VW Cep	0.90	0.24											

Name	M1	M2	A	R1	R2	T1	T2	log L1	log L2	Distance	U	V	W
HD 197010													
TY Vul	0.71 p	0.28 p											
alp Cyg										495. p			
V1696 Cyg	15.84 s	5.46											
HR Del										1150. n			
AU Mic													
BU Vul													
V516 Cyg	0.89 p	0.72 p											
14 Del										596. p			
V1792 Cyg	9.77 s	2.97 pi											
										573. s			
Y Cyg	16.28	16.96											
V751 Cyg										1530. phi			
FZ Del													
WZ Cyg													
SU Ind													
57 Cyg	5.11 s	4.48 s											
UY Vul	0.71 p	0.28 p								183. s			
KZ Pav										345. p			
UZ Vul	0.71 p	0.28 p											
S Equ	3.22	0.39								583. p			
										387. phi			
HR 8023	50.12 s	13.84 pi											
SV Equ										1180. s			
LS Del	1.00 s'	0.57 s'											
VW Vul	0.29 w	0.166 p								60.5 phi			
DV Aqr	2.03	1.22								504. p			
										87.5 phi			
CG Cyg	0.49	0.51											
eps Equ	1.35 s	0.164 pi								61.7 phi			
HR 8036										46.7 spi			
V832 Cyg													
V1396 Cyg													
CK Aqr													
alp Oct	2.07 s	2.07 s											
AO Oct	0.71 p	0.28 p								56.2 spi			
V1931 Cyg	12.88 s	0.84								456. p			
										661. phi			

Name	Notes
RZ Sge	UG
V477 Cyg	U=249y
QQ Vul	XM
V1034 Cyg	
V1676 Cyg	Ome=130°+/-20°
V1363 Cyg	UGZ
V448 Cyg	del m=0.64
V453 Cyg	del m=0.52; U=71y
WZ Sge	Twd=12500K
HD 191201	del m=0.48
HD 191473	
KR Cyg	
HD 191567	
V346 Aql	
V1769 Cyg	Amp 0.05V; He II velocity curve
18 Vul	
the Aql	del m=1.26
V1770 Cyg	
HR 7721	
DR Vul	U=37.8y; *13=0.145 V (B4V, 10.732 V, +0.321, -0.230)
V1679 Cyg	
KV Cyg	B1III+(B3III), i=86.9, r1=0.3364, r2=0.2886, l1=0.364 (lc: Kulikovskii, P.G. 1948, Perem. Zvezdy, 6, 286)
V794 Aql	Twd=50000K
V1187 Cyg	P=3.7675d?; B1V+(B1V), i=86.2, r1=0.087, r2=0.084, l1=0.540 V (lc: Mayer, P. 1965, BAC, 16, 255)
V1191 Cyg	(G1V)+(G1V), i=72.9, r1=0.551, r2=0.228, l1=0.854 V, qph=0.140 (Mayer, P. 1965, BAC, 16, 212)
HD 193077	
V699 Cyg	
BD +36°3991	
V382 Cyg	del m=0.3; (B-V)I=+0.59
V1773 Cyg	del m=0.60
BD +37°3881	
EG Cep	
V470 Cyg	del m=0.25
V444 Cyg	del m=1.75
V478 Cyg	del m=0.30

Name	Notes
V Sge	del m=0.6:
HY Pav	
bet Cap B	LP orb: P=1374.23d, KA=22.44, KBC=19.61, i=84°, e=0.432, omeA=120.1; Ang. diam. 1=0.00317+/-0.00017" @ 1.64 mum (Ridgway, S.
NSV 13022	NL:
V1687 Cyg	Amp 0.11V
DE Dra	Lg=1.00
HD 193857	
HD 193928	
S 176	
V498 Cyg	SB2
alp Pav	Ang. diam. 1=0.00080"+/-0.00006" (Hanbury Brown, R. 1968, Ann Rev AAp, 6, 28)
V404 Cyg	
V1776 Cyg	
CM Del	
HD 194495	
KK Tel	UG; B-V=+0.6: at min
V503 Cyg	UGSS
V388 Cyg	
V700 Cyg	
TU Ind	UG
TT Ind	UGZ
V1923 Cyg	
V729 Cyg	
HD 195907	
HR 7861	
ST Ind	
47 Cyg	
HD 196133	
HO Del	UG
GO Cyg	del m=0.82
iot Del	
V747 Cyg	NL:
DM Del	
AE Aqr	
VW Cep	del m=0.26; *13=0.071 V; Vis. orb: P=30.45y, T=1966,48, a=0.51", e=0.595, i=29.2°, ome=75.5°, Ome=0.9°, B=0.275 (Hershey, J.L.

Name	Notes
HD 197010	
TY Vul	UG
alp Cyg	
V1696 Cyg	
HR Del	t3=230d
AU Mic	BY+UV (V=8.59-8.96)
BU Vul	
V516 Cyg	UGSS
14 Del	
V1792 Cyg	
Y Cyg	del m=-0.07; U=54y
V751 Cyg	
FZ Del	Min II-Min I=0.533p
WZ Cyg	
SU Ind	
57 Cyg	del m=0.34; U=169y
UY Vul	Flare star (Schimpke, T., Bruch, A. 1990, AG Abstr. Ser., No. 4, p. 24)
KZ Pav	
UZ Vul	Flare star (Schimpke, T., Bruch, A. 1990, AG Abstr. Ser., No. 4, p. 24)
S Equ	del m=2.5V
HR 8023	
SV Equ	
LS Del	
VW Vul	UGZ
DV Aqr	del Sct (amp 0.1V)
CG Cyg	*13=0.002 V
eps Equ	Vis. orb: P=101.4y, T=1920.21, a=0.656", e=0.702, i=92.8°, ome=339.3°, Ome=105.2° (van den Bos, W.H. 1933, Union Obs. Circ., 3, 3
HR 8036	
V832 Cyg	
V1396 Cyg	UV; Vis. orb: P=27.0y, T=1977.0, a=0.66", e=0.50, i=48.1°, ome=168.0°, Ome=97.0° (Baize, P. 1991, AAp Sup, 89, 47), KA=3.34, KB
CK Aqr	
alp Oct	
AO Oct	UG:
V1931 Cyg	

Name	RA(1950)	μ(RA)	Dec(1950)	μ(Dec)	Pos Ref	FK4	SRS	AGK3	SAO	GC	l	b
ER Vul	21 00 16.464	+0.79	+27 36 33.50	+1.3	AGK3			+27°2353	089396		073.34	-12.30
V1898 Cyg	21 02 08.677	+0.05	+46 07 52.41	+1.5	AGK3			+46°1754	050411		087.60	-00.34
HD 201032	21 03 05.034	-0.16	+63 10 47.34	-1.1	AGK3			+63°1152	019169	29457	100.48	+10.92
xi Cyg	21 03 06.589	+0.047	+43 43 39.33	+0.43	FK4	792		+43°1923	050424	29459	085.93	-02.08
EV Aqr	21 03 45.		+00 43		GCVS						050.75	-29.12
V1803 Cyg	21 04 39.935 cg	+35.227	+38 29 59.10 cg	+318.47	FK4	793		+38°2138	070919	29509	082.25	-05.81
HD 201359	21 05 39.353	+0.06	+47 04 30.65	-0.3	AGK3			+47°1705	050476		088.70	-00.15
V1060 Cyg	21 05 44.		+37 01 54.		GCVS						081.30	-06.95
V1720 Cyg	21 05 58.573	-0.14	+48 39 11.34	-2.8	AGK3			+48°1707	050479		089.90	+00.88
V389 Cyg	21 06 31.463	+0.16	+30 00 09.40	-1.7	Per70		44548		070968	29562	076.11	-11.77
VY Aqr	21 09 28.26		+09 01 56.4		D87						041.59	-35.21
V1425 Cyg	21 09 32.920	-0.05	+55 07 36.53	-1.0	AGK3			+55°1432	033196		095.02	+04.89
V1500 Cyg	21 09 52.857		+47 56 41.05		D87						089.82	-00.07
EF Peg	21 12 40.		+13 51 36.		GCVS						064.12	-23.29
sig Cyg	21 15 26.951	-0.019	+39 11 03.50	-0.03	FK4	1558		+39°2259	071165	29786	084.19	-06.87
HR 8153	21 15 56.356	-0.10	+58 24 03.42	-0.2	AGK3			+58°1337	033288	29804	098.00	+06.53
HD 202908	21 16 09.806	+0.07	+11 21 30.02	-6.3	AGK3			+11°2644	107015	29812	062.54	-25.50
V1809 Cyg	21 16 35.137	0.000	+43 44 05.12	-0.81	FK4Sup	3701		+43°1959	050690	29823	087.61	-03.84
HR 8164	21 17 52.610	-0.23	+58 24 41.39	-0.6	AGK3			+58°1339	033318	29860	098.18	+06.36
6 Cep	21 18 19.996	-0.033	+64 39 34.13	+0.98	FK4Sup	3703		+64°1042	019313	29875	102.74	+10.69
HD 203345B	21 18 55.406	+0.27	+10 07 10.24	-4.5	AGK3			+10°2885	107061	29887	061.92	-26.81
CV Aqr	21 18 58.		-14 30 54.		GCVS						036.62	-39.68
HR 8170	21 19 04.079	-0.18	+40 08 05.80	-22.5	AGK3			+40°2192	050739	29889	085.37	-06.70
HR 8169	21 19 15.420	+0.11	+32 23 58.16	-0.2	AGK3			+32°2089	071237	29896	079.80	-12.15
V836 Cyg	21 19 20.496	+0.20	+35 31 22.15	-1.2	AGK3			+35°2195	071239		082.09	-09.98
BI Vul	21 20 37.		+26 49 06.		GCVS						075.83	-16.21
HR 8194	21 21 53.419	+0.23	+25 05 48.62	+0.7	AGK3			+25°2550	089680	29968	074.72	-17.59
V1073 Cyg	21 22 54.511	+0.13	+33 28 17.54	-2.3	AGK3			+33°2104	071307		081.14	-11.93
KP Peg	21 24 17.421	-0.14	+13 28 14.79	-1.1	AGK3			+13°2284	107139	30025	065.75	-25.73
70 Cyg	21 25 18.865	0.000	+36 53 54.87	-0.27	FK4Sup	3714		+36°2201	071358	30044	083.94	-09.86
PSR 2127+11	21 27 36.188		+11 57 26.29								065.01	-27.31
VZ Aqr	21 27 48.59		-03 12 29.7		L85						050.61	-36.30
bet Cep	21 28 01.326	+0.196	+70 20 27.85	+1.28	FK4	809			010057	30118	107.54	+14.03
GK Cep	21 30 21.043	+0.06	+70 36 07.09	+1.9	AGK3			+70°0741	010069	30165	107.87	+14.08
RS Ind	21 32 23.080	-1.09	-70 33 28.79	-5.0	SAO				257941		321.86	-38.84

Name	RA(1950)	μ(RA)	Dec(1950)	μ(Dec)	Pos Ref	FK4	SRS	AGK3	SAO	GC	l	b
DK Cyg	21 32 56.33	-0.05	+34 22 21.0	-1.6	(PI77)						083.29	-12.76
V630 Cyg	21 32 59.435		+40 26 54.20		BFW87						087.51	-08.33
HR 8257	21 33 05.963	+0.99	+27 58 27.11	-2.7	AGK3			+27°2461	089815	30229	078.72	-17.39
V632 Cyg	21 33 54.		+40 12 00.		GCVS						089.72	-06.00
CE Gru	21 34 45.2		-43 55 46.								356.70	-47.94
BX Peg	21 36 35.24	+0.04	+26 27 59.3	-1.3	(AC)						078.20	-19.00
HR 8281	21 37 24.390	-0.055	+57 15 44.56	-0.03	FK4	813		+57°1464	033626	30322	099.29	+03.74
EE Peg	21 37 34.126	+0.30	+08 57 26.46	+2.2	AGK3			+8°2996	126971	30328	064.17	-31.11
2138-453	21 38 10.77		-45 18 12.5								354.54	-48.36
42 Cap	21 38 49.847	-0.85	-14 16 17.57	-30.4	Per70		44644		164580	30354	039.56	-43.97
V1251 Cyg	21 39 03.		+48 26		GCVS						093.67	-03.08
pi1 Cyg	21 40 18.925	-0.033	+50 57 39.10	+0.31	FK4Sup	3733		+50°1683	033665	30391	095.48	-01.30
77 Cyg	21 40 22.030	+0.13	+40 50 52.85	-0.9	AGK3			+40°2246	051207	30394	088.84	-08.96
HR 8293	21 40 25.842	+0.54	-19 51 00.45	-0.8	SAO				164601	30396	032.41	-46.41
V1668 Cyg	21 40 38.06		+43 48 10.1		D87						090.84	-06.76
SS Cyg	21 40 44.402	+1.05	+43 21 23.31	+3.6	(BFW87)						090.55	-07.11
HD 206874	21 42 05.932	+0.05	+28 33 07.71	-3.6	AGK3			+28°2532	089944	30442	080.64	-18.34
V1481 Cyg	21 42 13.88		+53 29 32.2								097.35	+00.44
kap Peg B	21 42 22.714	+0.24	+25 24 51.41	+1.0	Per70		44669	+25°2605	089949	30450	078.41	-20.67
del Cap	21 44 16.993	+1.818	-16 21 18.42	-29.38	FK4	819	30819		164644	30491	037.60	-46.01
AI Cep	21 44 45.358	-0.28	+56 41 07.57	+0.1	AGK3			+56°1504	033744		099.68	+02.65
pi2 Cyg	21 44 56.560	+0.019	+49 04 39.35	+0.29	FK4	821		+49°1867	051293	30512	094.83	-03.22
SU Cep	21 45 04.16		+57 03 42.0		PI77						099.95	+02.91
14 Peg	21 47 37.796	+0.131	+29 56 26.28	-2.35	FK4	1575	31575	+29°2664	090040	30565	082.57	-18.12
HD 207826	21 47 58.623	-0.42	+66 33 33.04	-4.9	AGK3			+66°1070	019665	30574	106.33	+10.00
AG Peg	21 48 36.187	-0.05	+12 23 27.65	-1.3	AGK3			+12°2570	107436		069.28	-30.89
V Gru	21 48 46.938	-0.16	-42 36 28.98	-2.9	SAO				230871		358.22	-50.64
S 193	21 49 32.9		+13 52 43.								070.72	-30.03
NSV 13904	21 49 43.		+42 55 18.		NSV						091.54	-08.50
HR 8357	21 50 19.323	+0.19	+55 33 40.38	-0.4	AGK3			+55°1504	033819	30627	099.56	+01.28
16 Peg	21 50 47.084	+0.062	+25 41 20.87	+0.23	FK4	823	30823	+25°2623	090075	30635	080.10	-21.75
EM Cep	21 52 21.867	-0.20	+62 22 39.81	-1.4	AGK3			+62°1287	019718	30671	104.03	+06.46
BG Ind	21 54 59.023	+0.204	-59 15 05.97	+3.07	FK4Sup	3752	44703		247247	30724	333.72	-46.45
HR 8384	21 55 54.364	-0.16	+65 55 02.03	+0.3	AGK3			+65°1166	019760	30745	106.55	+09.00
MR Cyg	21 57 00.294	-0.23	+47 44 36.86	+0.3	AGK3			+47°1826	051509		095.56	-05.51

RA 21h

Name	RA(1950)	μ(RA)	Dec(1950)	μ(Dec)	Pos Ref	FK4	SRS	AGK3	SAO	GC	l	b
CM Lac	21 58 03.584	+0.09	+44 18 41.90	+0.9	AGK3			+44°2009	051531		093.61	-08.35
DX Aqr	21 59 42.543	+0.09	-17 12 21.87	+0.4	SAO				164830	30823	038.54	-49.74

Name	Bayer	Flmstd	HR	HD	BD	CoD	CPD	Var	Other
ER Vul				200391	+27°3952			ER Vul	INCA 2460; X2100+276 (1ES)
V1898 Cyg				200776	+45°3384			V1898 Cyg	LS III +46°41
HD 201032				201032	+62°1889				
xi Cyg	xi Cyg	62 Cyg	8079	200905	+43°3800				35H Cyg; AFGL 2703; CSV 102055; IRC +4
EV Aqr								EV Aqr	CSV 5342; P 5513; SVS 615
V1803 Cyg		61 Cyg A	8085	201091	+38°4343			V1803 Cyg	34H Cyg A; GI 820A; IRC +40469; NSV 13
HD 201359				201359	+46°3191				
V1060 Cyg								V1060 Cyg	S 9108
V1720 Cyg				201416	+48°3289			V1720 Cyg	
V389 Cyg			8094	201433	+29°4324			V389 Cyg	Zi 1987
VY Aqr								VY Aqr	N Aqr 1907; Ross 88
V1425 Cyg				202000	+54°2489			V1425 Cyg	BV 346; CSV 8632
V1500 Cyg								V1500 Cyg	N Cyg 1975
EF Peg								EF Peg	143.1935; P 5556
sig Cyg	sig Cyg	67 Cyg	8143	202850	+38°4431				40H Cyg; CSV 102080; NSV 13640; Zi 2001
HR 8153			8153	203025	+57°2309				CSV 8645; LS III +58°6; MWC 365; NSV 1
HD 202908				202908	+10°4514				
V1809 Cyg	A Cyg	68 Cyg	8154	203064	+43°3877			V1809 Cyg	41H Cyg; LS III +43°19; SVS 2548
HR 8164			8164	203338	+58°2249				AFGL 2748; IRC +60313
6 Cep		6 Cep	8171	203467	+64°1527				9H Cep
HD 203345B				203345 B	+9°4786 B				25G Equ
CV Aqr								CV Aqr	HV 6262
HR 8170			8170	203454	+39°4529				
HR 8169			8169	203439	+32°4134				
V836 Cyg				203470	+35°4496			V836 Cyg	BV 143
BI Vul								BI Vul	HV 6120
HR 8194			8194	203858	+24°4394				
V1073 Cyg				204038	+33°4252			V1073 Cyg	BV 342
KP Peg				204215	13°4708 A			KP Peg	CSV 8655; NSV 13708
70 Cyg		70 Cyg	8215	204403	+36°4568				
PSR 2127+11C									PSR 2127+11C
VZ Aqr								VZ Aqr	3.1925; SVS 52
bet Cep	bet Cep	8 Cep	8238	205021	+69°1173			bet Cep	11H Cep
GK Cep				205372	+70°1183			GK Cep	BV 382
RS Ind						-70°01841	-70°02860	RS Ind	196.1907; HV 3032

Name	Bayer	Flmstd	HR	HD	BD	CoD	CPD	Var	Other
DK Cyg					+33°4304			DK Cyg	1.1927
V630 Cyg								V630 Cyg	S 4556
HR 8257			8257	205539	+27°4107				
V632 Cyg								V632 Cyg	S 4558
CE Gru								CE Gru	Grus-V1
BX Peg								BX Peg	HV 6149
HR 8281			8281	206267	+56°2617				13H Cep; Cep X-4?; LS III +57°13; X2137+
EE Peg				206155	+8°4714			EE Peg	8G Peg; 150.1935; P 5617
2138-453									2138-453
42 Cap	d1 Cap	42 Cap	8283	206301	-14°6102				24H Cap; 111G Cap
V1251 Cyg								V1251 Cyg	Wr 160
pi1 Cyg	pi1 Cyg	80 Cyg	8301	206672	+50°3410				44H Cyg; LS III +50°29
77 Cyg		77 Cyg	8300	206644	+40°4615				
HR 8293			8293	206546	-20°6270				114G Cap
V1668 Cyg								V1668 Cyg	N Cyg 1978
SS Cyg				206697	+42°4189a			SS Cyg	HV 84; LS III +43°24; X2140+433 (3A, H,
HD 206874				206874	+28°4171				
V1481 Cyg								V1481 Cyg	HBV 478; LS III +53°12; NGC 7128-5
kap Peg B	kap Peg B	10 Peg B	8315 B	206901 B	+24°4463				5H Peg B; IRC +30478
del Cap	del Cap	49 Cap	8322	207098	-16°5943			del Cap	27H Cap; 123G Cap; AFGL 7180S; GI 837; I
AI Cep				239767	+56°2640			AI Cep	LS III +56°12; SVS 505
pi2 Cyg	pi2 Cyg	81 Cyg	8335	207330	+48°3504				45H Cyg; LS III +49°33
SU Cep					+56°2642			SU Cep	123.1907; HV 2977
14 Peg		14 Peg	8343	207650	+29°4525				(46H Cyg)
HD 207826				207826	+66°1441				
AG Peg				207757	+11°4673			AG Peg	MWC 379; Zi 2046
V Gru				207697		-42°15664	-42°09342	V Gru	49.1913; HV 3365
S 193									S 193
NSV 13904									CSV 8697; NSV 13904; SVS 1101
HR 8357			8357	208095	+55°2639				NSV 13909
16 Peg		16 Peg	8356	208057	+25°4635				7H Peg
EM Cep				208392	+61°2216			EM Cep	LS III +62°5; MWC 380; NGC 7160-2
BG Ind	kap1 Ind		8369	208496		-59°07830	-59°07744	BG Ind	61G Ind; BV 564; NSV 13971
HR 8384			8384	208947	+65°1691				
MR Cyg					+47°3639			MR Cyg	337.1931

Name	Bayer	Flmstd	HR	HD	BD	CoD	CPD	Var	Other
CM Lac				209147	+43°4106			CM Lac	397.1931
DX Aqr		29 Aqr	8396	209278	-17°6422			DX Aqr	101G Aqr; BV 600

Name	Sp1	Sp2	T-JD 2400000	P	e	omel	V0	K1	K2	v1 sin i	v2 sin i
ER Vul	G0V	G5V	46235.6121	0.69809472	0	-	-24.6	139.5	145.8	81	71
V1898 Cyg	B1Vp	[B6V]	40107.948	2.9258	0.06	309	+1.3	62.5			
HD 201032	A5[V]	[K5V]	31709.396	2.29883	0.047	81	+6.59	47.68			
xi Cyg	K4-5Ib-II		30242.68	113.3873	0	-	-20.0	3.47		<17.	
EV Aqr				[0.227]							
V1803 Cyg	K5V			37.						<17.	
HD 201359	B8V	[G7V]	40488.54	2.8367	0.11	24	-37.5	45.3			
V1060 Cyg				[0.224]							
V1720 Cyg	G5III	(G5V)	42692.557	0.2483331							
V389 Cyg	B9VpSi	[M3V]	42670.343	3.3131718	0	-	-25.90	21.77		10	
VY Aqr	sdBe	(M1V)		0.06294?							
V1425 Cyg	B9	A0	45969.0590	1.2523879							
V1500 Cyg	sdOe		43369.6490	0.1396131	0	-	-43.	109:	193. e		
EF Peg				[0.108]							
sig Cyg	B9Iab		21068.77	11.043	0.40	119.1	-3.80	1.98		28	
HR 8153	B2IIIe	[B9V]	23635.140	5.41364	0.114	58.5	-17.2	40.0		175	
HD 202908	F9V	G0V	43122.773	3.9660306	0.013	156.7	+5.91	66.2	69.1	8	8
V1809 Cyg	O7.5IIIn((f))		44579.12	3.1781	0	-	+9.4	6.9		328	
HR 8164	M1Ibep	B2Vpe		75?						<=50	50
6 Cep	B2.5Ve	[M4V]	40096.004	0.708469*	0	-	-16.6	9.0		148	
HD 203345B	F8V	[K3V]	40431.08498	2.236112	0.0055	20.38	-19.0	76.714	120		
CV Aqr				[0.108]							
HR 8170	F8V	[K4V]	44800.954	3.243346	0	-	-1.4	61.8		12	
HR 8169	A1V	(A5V)	24363.558	20.342	0.441	219.67	-3.98	45.71	78.95	50	
V836 Cyg	A0V	(G5V)	41239.4687	0.65341146	0.0	-	-43.3	90.3			
BI Vul	K3V	K3V	44757.9270	0.251818							
HR 8194	A2V	[A2V]	30009.723	6.9463	0.0	-	-19.46	71.44	81.46		
V1073 Cyg	A3Vm	(A5V)	38672.5816	0.7858597	0	-	-8.1	65.9	192:	150	
KP Peg	A2V		46730.18247	0.7272018							
70 Cyg	B3V			27.54	0	-	-15.	15		135	
PSR 2127+11	(psr)		47632.4672065	0.335282052	0.68141	316.40	-	223.9			
VZ Aqr	sdBe	M5:		(0.329)*							
bet Cep	B1IV	[M4.5]	33555.4	10.893	0.52	338	-3.1	3.1		28	
GK Cep	A2Vn	A2Vn	38694.6870	0.9361653	0	-	-22.	172	187		
RS Ind	F0/2V	(K2IV)	45496.5880	0.6240486	0	-	+3.6	81.2	262		

Name	Sp1	Sp2	T-JD 2400000	P	e	omel	V0	K1	K2	v1 sin i	v2 sin i
DK Cyg	A2V	F2V	37999.5838	0.47069055							
V630 Cyg				(0.077 ACP)							
HR 8257	F0IV	(F0V)	23710.068	12.216	0.318	46.79	-43.17	51.95	65.24		
V632 Cyg				[0.224]							
CE Gru	sdBe			0.07537							
BX Peg	G4.5V (G9)	(G7)	45651.3217*	0.28042024	0	-	+25.2	98.9	265.8		
HR 8281	O6.5V	O9(V)	41819.64	3.709781	0.09	330.6	-6.4	103.7	298	154	
EE Peg	A3Vm	F5V	45563.8916	2.62821423	0.000	-	-22.6	89.4	144.4	33	26
2138-453				0.065?						450. e	
42 Cap	G1V	G0V	40051.75	13.17399	0.18	177	-1.3	23.2		5	
V1251 Cyg				[0.108]							
pi1 Cyg	B3IV	[F5V]	31313.1	26.33	0	-	-8.2	16.5		109	
77 Cyg	A0V	(A0V)	24256.182	1.72897	0.0	-	-25.5	110.0	110.0	45	
HR 8293	A0/5/F0[V]m		25491.345	6.3702	0	-	-25.5	82.1	86.3	47	
V1668 Cyg	sdBe		47679.848	0.1384							
SS Cyg	sdBe	K5V	44841.86899	0.27512973	0	-	-18.	97	158	491 Sh;	94
HD 206874	F2IV	F2IV	21860.218	3.229470	0.018	243	+3.1	98.3	98.2		
V1481 Cyg	B2V	(B2.5)	40040.610	2.76340							
kap Peg B	F6IV	[K5V]	44459.149	5.97164	0	-	-0.8	42.1			
del Cap	A6/F2/5IVm	(G8V)	35657.055	1.0227688	0.012	141	-0.2	70.8		87	
AI Cep	B0.5pV:	(B3)	26550.341	4.225288							
pi2 Cyg	B3III	[K3V]	28410.6	72.0162	0.34	238.1	-12.3	7.8		43	
SU Cep	B8	(A0)	26325.465	0.9014011							
14 Peg	A1Vs	(A1V)	29117.474	5.30465	0.528	302.7	-23.89	37.01	40.35	68	
HD 207826	F3IV	[M3V]	44802.270	2.725716	0.025	146.9	-15.25	30.69			
AG Peg	WN6	M3.0III	44507.8	818.72	0.28	149.9	-16.15	22	4.98		
V Gru	F2V	(G6IV)	44463.8040	0.4834455							
S 193				0.15?			-	<50.			
NSV 13904				[0.108]							
HR 8357	B7VpSiSr	B9(IVn)	44002.326	9.47917	0.359	218.9	-15.8	105.9	97.1	120:	
16 Peg	B3Ve			17.79	0	-	-19.	13		152	
EM Cep	B1IVe	(B4V)	40134.5759	0.806187	0.087 phi	10.361 phi	-26.2	-0.3		278	
BG Ind	F3V	(F7V)	45907.9423	1.464069	0	-	+40.	118:	139:	70	50
HR 8384	B2V	B2V	25081.385	2.989923	0.195	218.4	-10.6	116.2	134.6	250	
MR Cyg	B3V	B9(III-IV)e	33396.4069	1.67703362	0.0	-	-54.5	120.8	239.2:		

Name	Sp1	Sp2	T-JD 2400000	P	e	omel	V0	K1	K2	v1 sin i	v2 sin i
CM Lac	A2V	A8V	27026.316	1.6046916	0	-	-16.1	119.1	152.5	44	34
DX Aqr	A2V	(A5V)	42687.697	0.9450132	0	-	+15.0	97.9			

Name	Spectroscopic orbit
ER Vul	Hill, G., Fisher, W.A., Holmgren, D. 1990, AAp, 238, 145
V1898 Cyg	Abt, H.A., et al. 1972, AJ, 77, 138
HD 201032	Tanner, R.W. 1949, Pub. DDO, 1, 507
xi Cyg	Onderlicka, B., Handlířová, D. 1987, Pub. Astr. Inst. Czech. Acad. Sci., 70, 331
EV Aqr	
V1803 Cyg	
HD 201359	Acker, A. 1971, AAp, 15, 304
V1060 Cyg	
V1720 Cyg	
V389 Cyg	Barlow, D.J. 1989, Obs., 109, 225
VY Aqr	
V1425 Cyg	
V1500 Cyg	Kaluzny, J., Chelbowski, T. 1988, ApJ, 332, 287; Horne, K., Schneider, D.P. 1989, ApJ, 343, 888
EF Peg	
sig Cyg	Henroteau, F.C. 1917, Pub. Mich. Obs., 3, 39
HR 8153	Sanford, R.F. 1926, ApJ, 64, 172
HD 202908	Fekel, F.C. 1981, ApJ, 248, 670
V1809 Cyg	Gies, D.R., Bolton, C.T. 1986, ApJ Suppl., 61, 419
HR 8164	
6 Cep	Krajceva, Z.T., Koubsky, P. 1983, IBVS 2313
HD 203345B	West, R. 1976, ApJ, 205, 194; West, F.R., McAlister, H.A. 1981, BAAS, 13, 569
CV Aqr	
HR 8170	Mayor, M., Mazeh, T. 1987, Astr. Ap., 171, 157
HR 8169	Harper, W.E. 1926, Pub. DAO, 3, 319
V836 Cyg	Duerbeck, H.W., Schumann, J.D. 1982, JApA, 3, 233
BI Vul	
HR 8194	Patten, C.G., McKellar, A. 1942, Pub. DAO, 7, 287
V1073 Cyg	FitzGerald, P. 1964, Pub. DDO, 2, 417; Leung, K.-C., Schneider, D.P. 1978, ApJ, 222, 917
KP Peg	
70 Cyg	Kodaira, K. 1971, PASJ, 23, 159
PSR 2127+11	Prince, T.A., Anderson, S.B., Kulkarni, S.R., Wolszczan, A. 1991, ApJ, 374, L41
VZ Aqr	
bet Cep	Fitch, W.S. 1968, ApJ, 158, 269
GK Cep	Bartolini, C., et al. 1965, Asiago Contr., No. 168
RS Ind	Hilditch, R.W., King, D.T. 1988, MN, 232, 147

Name	Spectroscopic orbit
DK Cyg	
V630 Cyg	
HR 8257	Harper, W.E. 1925, Pub. DAO, 3, 241
V632 Cyg	
CE Gru	
BX Peg	Samec, R.G., Hube, D.P. 1991, AJ, 102, 1171
HR 8281	Crampton, D., Redman, R.O. 1975, AJ, 80, 454
EE Peg	Lacy, C.H., Popper, D.M. 1984, ApJ, 281, 268
2138-453	
42 Cap	Abt, H.A., Levy, S.G. 1976, ApJ Suppl., 30, 273
V1251 Cyg	
pi1 Cyg	Fehrenbach, Ch. 1948, Ann. Ap., 11, 157
77 Cyg	Luyten, W.J. 1936, ApJ, 84, 85
HR 8293	Sanford, R.F. 1931, ApJ, 74, 201
V1668 Cyg	
SS Cyg	Robinson, E.L. 1991, paper presented at the San Diego Workshop on Cataclysmic Variables, San Diego, California; Robinson, E.L., Zhang, E.-H
HD 206874	Fisk, R.S., Abt, H.A. 1969, PASP, 81, 692
V1481 Cyg	
kap Peg B	Mayor, M., Mazeh, T. 1987, Astr. Ap., 171, 157
del Cap	Batten, A.H. 1961, Pub. DAO, 11, 395
AI Cep	
pi2 Cyg	Taffara, S. 1939, Mem. SAIt, 12, 279
SU Cep	
14 Peg	Petrie, R.M. 1940, Pub. DAO, 7, 245
HD 207826	McKellar, A., Patten, C.G. 1940, Pub. DAO, 7, 239
AG Peg	Hutchings, J.B., Cowley, A.P., Redman, R.O. 1975, ApJ, 201, 404; Slovak, M.H., Lambert, D.L. 1988, IAU Colloq. 103, p. 265
V Gru	
S 193	Szkody, P. 1991, paper presented at the San Diego Workshop on Cataclysmic Variables, San Diego, CA
NSV 13904	
HR 8357	Popper, D.M. 1982, PASP, 94, 76
16 Peg	Kodaira, K. 1971, PASJ, 23, 159
EM Cep	(Plaskett, J.S., Pearce, J.A. 1931, Pub. DAO, 5, 1)
BG Ind	(Andersen, J., Jensen, K.S., Nordström, B. 1984, IBVS 2642)
HR 8384	Petrie, R.M., Petrie, J.K. 1967, Pub. DAO 13, 101
MR Cyg	Hill, G., Hutchings, J.B. 1973, AAp, 23, 357

Name	Spectroscopic orbit
CM Lac	Popper, D.M. 1968, ApJ, 154, 191
DX Aqr	Paffhausen, W., Seggewiss, W. 1976, AAp Suppl., 24, 29

Name	V	B-V	U-B	R-I	E(B-V)	par	Cluster	ADS	Vis Binary	Companions
ER Vul	7.27	+0.68								
V1898 Cyg	7.71	+0.01	-0.82		0.32		Cyg OB6?			
HD 201032	7.26 v				0.05 m					
xi Cyg	3.72	+1.65	+1.83	+0.90		0.007				
EV Aqr	12.1 p				0.06 m					
V1803 Cyg	5.21	+1.18	+1.11	+0.65		0.294		14636 A	Sig 2758 A (orb)	6.28, K7V, 28.7"; 10.5, 40.6"; 4 othe
HD 201359	7.28	-0.05	-0.12		0.04					
V1060 Cyg	13.5 p				0.12 m		Do 45?			
V1720 Cyg	7.78	+1.02	+0.61		0.05			14673 A	Es 818 A	
V389 Cyg	5.59	-0.10	-0.26			-0.006		14682 A	Sig 2762 A	7.8, A0V, 3.4"; 9.2v, K1III, 58"
VY Aqr	10.3 v	+0.36:	-0.37:		0.0 u					
V1425 Cyg	7.76	+0.05	-0.31							
V1500 Cyg	17.06	+0.38	-0.63	+0.41	0.50					
EF Peg	10.7 p				0.04 m				B	14.0, 5"
sig Cyg	4.23	+0.12	-0.39	+0.14		0.011	Cyg OB4			
HR 8153	6.42	+0.20	-0.50		0.46		Cep OB2	14832 A	bet 1140 A	12.0, 4.1"; 12.6, 69.9"
HD 202908	7.02	+0.58	+0.07	+0.30				14839 A	bet 163 (orb)	del m=1.9, close; 6.5, 28.9"; 5.9, 50.
V1809 Cyg	5.00	-0.01	-0.94				Cyg OB7			
HR 8164	5.66	+1.38	+0.07	+1.33		0.004	Cep OB2	14864 A	Sig 2790 A	9.5, B3V, 4.6"
6 Cep	5.18	-0.04	-0.58		0.22	-0.015	(Cep OB2)			
HD 203345B	6.75	+0.53	0.00		0.00	D0.029		14893 B	A 617 B (orb)	7.48V, 0.102"
CV Aqr	12.4 p				0.09 m					
HR 8170	6.40	+0.53	-0.01	+0.34	0.00	0.034	UMa			
HR 8169	6.04	+0.03	+0.10		0.01	0.007				
V836 Cyg	8.57	+0.02								
BI Vul	13.16	+0.98		+0.55						
HR 8194	6.19	+0.02	+0.01		0.04 m			14943 A	bet 447 A	10.7, 66.8"
V1073 Cyg	8.40	+0.42	+0.14	+0.25	0.08					
KP Peg	7.05 D	+0.12	+0.04					14977 A	Sig 2797	8.8, 3.3"
70 Cyg	5.31	-0.14	-0.64							
PSR 2127+11C					0.10 g		NGC 7078			
VZ Aqr	11.6 v				0.07					
bet Cep	3.23	-0.22	-0.95	-0.22	0.02	0.014	Cr 471?	15032 A	GLS A; Sig 2806 A	6.0, 0.204"; 7.84V, A2V, 13.6"
GK Cep	6.89	+0.08					Cr 471?			
RS Ind	9.39	+0.336	+0.09							

Name	V	B-V	U-B	R-I	E(B-V)	par	Cluster	ADS	Vis Binary	Companions
DK Cyg	10.37	+0.38								
V630 Cyg	13.4 p				0.17 m					
HR 8257	6.31	+0.35	-0.05		0.04				CHARA 103	
V632 Cyg	12.6 p				0.21 m					
CE Gru	18.5 B	+0.53	-0.64	+0.32						
BX Peg	10.80	+0.74	+0.30							
HR 8281	5.78	+0.20	-0.68		0.57		IC 1396	15184 A	bet 1143 A; Sig 281	8.05V, B1.5V, 12"; 8.03V, B2IV, 20"
EE Peg	6.93	+0.14	+0.07	+0.03	0.00				CHARA 105	
2138-453	<18.7 B									
42 Cap	5.18	+0.65	+0.20	+0.24E	0.02	0.034;	Wolf 630 gp			7.4, 0.0008"
V1251 Cyg	12.5 p				0.07 m					
pi1 Cyg	4.67	-0.12	-0.68	-0.13	0.06					
77 Cyg	5.69	+0.01	-0.01		0.00	0.003; D0.017			Kui 108 A (orb)	6.6, A0V, 0.16", 27.2y
HR 8293	6.22	+0.27	+0.15	+0.12		A0.011	Hyades scl			7.0, 0.001"
V1668 Cyg	19.9 B				0.36					
SS Cyg	8.54	-0.01	-0.79	+0.07	0.04 u	0.012				
HD 206874	6.90 v				0.04			15275 A	Es 521	13.3, 16.2"
V1481 Cyg	12.2	+0.78	0.00				NGC 7128			
kap Peg B	4.13 D	+0.43	+0.03	+0.25	0.03	0.035; D0.025		15281 B	bet 989 B (orb); Sig	4.7, F2IV, 0.245"
del Cap	2.81	+0.29	+0.09	+0.17	0.00	0.087		15314 A	h 3056 A	5.2v, 0.0018"; 15.8, 69"; 12.7, 119"
AI Cep	9.18	+0.70	-0.34				Cep OB2			
pi2 Cyg	4.23	-0.12	-0.71	-0.12	0.06	-0.001	(Cyg OB7)			
SU Cep	10.0 p									
14 Peg	5.04	-0.03	+0.03		0.00	0.006				
HD 207826	6.45	+0.39	+0.05		0.01			15366 A	Sig 2836 A	10.59V, +0.93, +0.59, 11.8"
AG Peg	8.56	+1.01	-0.47							
V Gru	9.49	+0.42							B A	15, 10"
S 193	12.7									
NSV 13904	12.0 p				0.12 m					
HR 8357	5.71	-0.13	-0.46		0.00	D0.005	(Cep OB2)	15405 A	Sig 2840 A	del m=1.0, A1pSrSi, 18.3"; 13.2v, 5
16 Peg	5.08	-0.17	-0.67			0.003				
EM Cep	7.02	+0.26	-0.56	-0.59E	0.52		NGC 7160	15434 A	Es 144 A; S 800 A	12.8, 19.8"; 7.9, 62.5"
BG Ind	6.12	+0.46	-0.02							
HR 8384	6.43	-0.05	-0.68		0.22		Cep OB2			7.2, K0, 91"
MR Cyg	8.76	+0.06	-0.53		0.20					

RA 21h

Name	V	B-V	U-B	R-I	E(B-V)	par	Cluster	ADS	Vis Binary	Companions
CM Lac	8.214	+0.17	+0.06		0.07					
DX Aqr	6.37	+0.42				D0.006		15562 A	S 802 A	7.0, KOIII, 3.7"; 11.7v, 143"

Name	Vbl type	Min I	Min II	D	d	i	r1	r2	l1	qph
ER Vul	EW/RS/DW	7.49	7.35-7.44			67.2	0.253	0.255	0.538 V	
V1898 Cyg	EA/DM	8.15				48.30 pi				
HD 201032						55.51 pi				
xi Cyg	-									
EV Aqr	UGZ:	> 14.2 p				57.63 pi				
V1803 Cyg	BY	(0.03)								
HD 201359						53.85 pi				
V1060 Cyg	UGSS	18. p				57.63 pi				
V1720 Cyg	ELL:					26.5	0.526	0.247	0.819	0.187
V389 Cyg	Unique									
VY Aqr	NR	17.20				57.63 pi				
V1425 Cyg	EB/KE:	8.22	8.06			70.1	0.388	0.342	0.707 V	0.75
V1500 Cyg	NA									
EF Peg	UG	> 17. p				57.63 pi				
sig Cyg	-									
HR 8153	ELL:					47.86 pi				
HD 202908							0.06 ome	0.06 ome		
V1809 Cyg	ELL									
HR 8164										
6 Cep						33.30 pi				
HD 203345B						67.65 pi				
CV Aqr	UG	> 16.6 p				57.63 pi				
HR 8170						65.39 pi				
HR 8169						71.74 s	0.193 ome		0.70 s	
V836 Cyg	EB/KE	9.30 B	8.81 B			80.8	0.427	0.271	0.955 V	0.34
BI Vul	EW/KW	14.90 B	14.86 B			78.8	0.370	0.434	0.440 B	1.445
HR 8194						58.29 s			0.57 s	
V1073 Cyg	EW/KE	8.38	8.34			68.30	0.4787	0.2920	0.7700 y	
KP Peg	EB/KE	7.24	7.12							
70 Cyg										
PSR 2127+11C						48.89				
VZ Aqr	UGSS	16.51				57.63 pi			0.62 R s*	
bet Cep	BCEP					53.09 pi				
GK Cep	EB/KE	7.37	7.35		0.03	71.48	0.381	0.352	0.536 V	(0.92)
RS Ind	EA/DW	9.96	9.62			90.0	0.472	0.279	0.9423 bol	0.322

Name	Vbl type	Min I	Min II	D	d	i	r1	r2	l1	qph
DK Cyg	EW/D	10.93	10.90		0.04; 0.04	80.29	0.524	0.298	0.7388 V	0.271
V630 Cyg	UGSU	17.2 p				57.63 pi				
HR 8257						58.06 s				
V632 Cyg	UGSS	17.5 p				57.63 pi				
CE Gru	AM					50.				
BX Peg	EW/KW	11.29	11.26			87.5	0.477	0.308	0.663 V	(0.376)
HR 8281						48.21 s	0.367 ome		0.91 s	
EE Peg	EA/DM	7.51	7.06	0.09	0.000	88.6	0.172	0.108	0.920 b	
2138-453		20.4 B								
42 Cap						23.14 s				
V1251 Cyg	UG:	> 15. p				57.63 pi				
pi1 Cyg						55.73 pi				
77 Cyg						48.85 s	0.205 ome		0.57 s	
HR 8293							0.28 ome			
V1668 Cyg	NA	20.9 B		[0.102]						
SS Cyg	UGSS					35.24 p		0.369 ome		
HD 206874						72.73 se				
V1481 Cyg	EB/DM	12.55	12.5:			85.	0.372	0.238	0.75 V	0.88
kap Peg B						60.33 pi				
del Cap	EA	3.05	2.90	0.08		72.	0.354	0.160	0.967 V	
AI Cep	EB/DM	9.86	9.48			88.5	0.349	0.147	0.91 V	0.53
pi2 Cyg						56.31 pi				
SU Cep	EB/KE	10.9 p	10.6 p			85.	0.392	0.356	0.69 p	0.82
14 Peg						19.22 s	0.335 ome		0.55 s	
HD 207826						52.18 pi				
AG Peg	NC					68.				
V Gru	EW/KW	(0.3 p)				65.	0.47	0.28	0.92 p	0.35
S 193										
NSV 13904	UG:	14.2 p				57.63 pi				
HR 8357	BCEP:					78.92 s	0.348: ome		0.65 s	
16 Peg										
EM Cep	EW/KE	7.17	7.16			59.743	0.5266	0.1183	0.7869*	(0.5 assumed)
BG Ind	EA	6.35	6.28			74.140	0.2982	0.2139	0.7362 y	
HR 8384						38.16 s	0.826 ome		0.62 s	
MR Cyg	EA/SD	9.66	9.12	0.22; 0.20	0.020	86.0	0.358	0.294	0.874 bol	(0.625 assume

Name	Vbl type	Min I	Min II	D	d	i	r1	r2	l1	qph
CM Lac	EA/DM	9.15	8.53	0.11; 0.12	0.00	86.6	0.180	0.172	0.734 V	
DX Aqr	EA/KE:	6.78	6.67:	0.15	0.015	82.8	0.448	0.314	0.650 V	

Name	Photometric solution
ER Vul	Hill, G., Fisher, W.A., Holmgren, D. 1990, AAp, 238, 145
V1898 Cyg	(Halbedel, E.M. 1985, IBVS 2663)
HD 201032	
xi Cyg	
EV Aqr	
V1803 Cyg	
HD 201359	
V1060 Cyg	
V1720 Cyg	(Cacciari, C., Fusi Pecci, F., Guarnieri, A. 1976, IBVS 1196)
V389 Cyg	
VY Aqr	
V1425 Cyg	Lee, Y.-S. 1989, ApJ, 338, 1016
V1500 Cyg	
EF Peg	
sig Cyg	
HR 8153	
HD 202908	
V1809 Cyg	(Esipov, V.F., Klemet'eva, A.Yu., Kovalenko, A.V., Lozinskaya, T.A., Lyutyi, V.M., Sitnik, T.G., Udal'tsov, V.A. 1982, AZh, 59, 965)
HR 8164	
6 Cep	
HD 203345B	
CV Aqr	
HR 8170	
HR 8169	
V836 Cyg	Breinhorst, R.A., Kallrath, J., Kämper, B.-C. 1989, MN, 241, 559
BI Vul	Bradstreet, D.H. 1985, ApJ Suppl., 58, 413
HR 8194	
V1073 Cyg	Leung, K.-C., Schneider, D.P. 1978, ApJ, 222, 917
KP Peg	(Keskin, V., Can Akan, M. 1989, ApSpSci, 155, 113; Walker, R.L. 1988, IBVS 3160)
70 Cyg	
PSR 2127+11	Anderson, S.B., Kulkarni, S.R., Prince, T.A., Wolszczan, A. 1991, poster paper presented at the NATO Advanced Research Workshop on X-Ray
VZ Aqr	
bet Cep	
GK Cep	Niarchos, P.G., Rovithis-Livaniou, H., Rovithis, P. 1991, AAp Sup, 88, 471
RS Ind	Hilditch, R.W., King, D.J. 1988, MN, 232, 147

Name	Photometric solution
DK Cyg	Twigg, L.W. 1979, MN, 189, 907
V630 Cyg	
HR 8257	
V632 Cyg	
CE Gru	Wickramasinghe, D.T., Ferrario, L., Cropper, M., Bailey, J. 1991, MN, 251, 137
BX Peg	Samec, R.G., Hube, D.P. 1991, AJ, 102, 1171
HR 8281	
EE Peg	Lacy, C.H., Popper, D.M. 1984, ApJ, 281, 268
2138-453	
42 Cap	
V1251 Cyg	
pi1 Cyg	
77 Cyg	
HR 8293	
V1668 Cyg	(Kaluzny, J. 1990, MN, 245, 547)
SS Cyg	
HD 206874	
V1481 Cyg	Svechnikov, M.A., Kuznetsova, E.F. 1990, Katalog Priblizhennykh Fotometricheskikh i Absolyutnykh Elementov Zatmennykh Peremennykh Zvez
kap Peg B	
del Cap	Malasan, H.L., Yamasaki, A., Hidayanto, G., Kondo, M. 1989, AJ, 97, 499
AI Cep	Svechnikov, M.A., Kuznetsova, E.F. 1990, Katalog Priblizhennykh Fotometricheskikh i Absolyutnykh Elementov Zatmennykh Peremennykh Zvez
pi2 Cyg	
SU Cep	Svechnikov, M.A., Kuznetsova, E.F. 1990, Katalog Priblizhennykh Fotometricheskikh i Absolyutnykh Elementov Zatmennykh Peremennykh Zvez
14 Peg	
HD 207826	
AG Peg	Formiggini, L., Leibowitz, E.M. 1990, AAp, 227, 121
V Gru	Svechnikov, M.A., Kuznetsova, E.F. 1990, Katalog Priblizhennykh Fotometricheskikh i Absolyutnykh Elementov Zatmennykh Peremennykh Zvez
S 193	
NSV 13904	
HR 8357	
16 Peg	
EM Cep	Cristescu, C., Oprescu, G., Suran, M.D. 1981, IBVS 2050
BG Ind	Van Hamme, W., Manfroid, J. 1988, Astr. Ap. Suppl., 74, 247
HR 8384	
MR Cyg	Hill, G., Hutchings, J.B. 1973, ApSpSci, 20, 123

Name	Photometric solution
CM Lac	Cester, B., et al. 1978, AAp Suppl., 32, 351
DX Aqr	(Olsen, E.H. 1976, IBVS 1199)

Name	M1	M2	A	R1	R2	T1	T2	log L1	log L2	Distance	U	V	W
ER Vul	1.10	1.05											
V1898 Cyg	15.14 s	4.02 pi								1470. s			
HD 201032	1.82 s	0.66 pi								110. s			
xi Cyg													
EV Aqr	0.89 p	0.74 p								345. p			
V1803 Cyg													
HD 201359	3.02 s	0.93 pi											
V1060 Cyg	0.89 p	0.72 p								260. s			
V1720 Cyg	0.97 s'	0.183 phi								578. p			
V389 Cyg	2.57 s									30.3 phi			
VY Aqr	0.53 p	0.130 p											
V1425 Cyg													
V1500 Cyg													
EF Peg	0.71 p	0.28 p								1560. n			
sig Cyg										133. p			
HR 8153	12.02 s	2.65 pi											
HD 202908										557. s			
V1809 Cyg	43.65 s												
HR 8164													
6 Cep	8.22 s	0.29 pi								208. s			
HD 203345B	1.10 s	0.77 pi											
CV Aqr	0.71 p	0.28 p								42.9 spi			
HR 8170	1.10 s	0.70 pi								288. p			
HR 8169	2.19 s	1.27								29.7 spi			
V836 Cyg	2.37	0.80								117. s			
BI Vul													
HR 8194	2.23 s	1.96 s											
V1073 Cyg	1.30	0.44								125. s			
KP Peg										181. phi			
70 Cyg													
PSR 2127+11	1.33	1.38											
VZ Aqr	0.89 p	0.86 p								9730. g			
bet Cep	15.14 s	0.21 pi								361. p			
GK Cep	2.74	2.52								270. s			
RS Ind	2.00	0.62											

Name	M1	M2	A	R1	R2	T1	T2	log L1	log L2	Distance	U	V	W
DK Cyg													
V630 Cyg	0.53 p	0.154 p											
HR 8257	1.58 s	1.26								346. p			
V632 Cyg	0.89 p	0.72 p								77.8 s			
CE Gru										321. p			
BX Peg	1.03	0.38											
HR 8281	44.16 s	15.37											
EE Peg	2.15	1.33								894. s			
2138-453										142. phi			
42 Cap	1.02 s	1.05 s											
V1251 Cyg	0.71 p	0.28 p								20.2 spi			
pi1 Cyg	7.59 s	1.19 pi								312. p			
77 Cyg	2.24 s	2.24 s								227. s			
HR 8293										138. spi			
V1668 Cyg													
SS Cyg	1.47	0.86 p											
HD 206874	1.46 s	1.46 s								76.3 k			
V1481 Cyg										106. s			
kap Peg B	1.33 s	0.65 pi											
del Cap	1.51 s	0.58								31.5 spi			
AI Cep										12.7 phi			
pi2 Cyg	8.71 s	0.77 pi											
SU Cep										257. s			
14 Peg	2.28 s	2.10 s											
HD 207826	1.41 s	0.38 pi								86.8 s			
AG Peg	0.34	1.51								61.5 s			
V Gru													
S 193													
NSV 13904	0.71 p	0.28 p											
HR 8357	3.39 s	3.70								227. p			
16 Peg										202. s			
EM Cep	15.14 s	0.00											
BG Ind	1.56	1.33								725. s			
HR 8384	10.52 s	9.08 s											
MR Cyg	5.43	2.74								636. s			
										1090. phi			

Name	M1	M2	A	R1	R2	T1	T2	log L1	log L2	Distance	U	V	W
										199. phi			
CM Lac	1.88	1.47											
DX Aqr													

Name	Notes
ER Vul	del m=0.35y
V1898 Cyg	
HD 201032	
xi Cyg	
EV Aqr	UGZ:
V1803 Cyg	BY; Vis. orb: P=734y, T=1687., a=24.9", e=0.40, i=52.3°, ome=158.6°, Ome=172.1° (Kisselev, A.A., Kiyaeva, O.V. 1988, ApSpSci, 142
HD 201359	
V1060 Cyg	UGSS
V1720 Cyg	
V389 Cyg	betC (amp 0.19B); Triple system: P=154.072d, T=2442629.9, K=9.49, e=0.311, ome=342 (Barlow, D.J. 1989, Obs., 109, 225)
VY Aqr	
V1425 Cyg	
V1500 Cyg	t3=3.6d; Twd=110000K
EF Peg	UG
sig Cyg	
HR 8153	Triple: Porb=225.44d; Ell (Amp 0.030 V)
HD 202908	Vis. orb: P=78.5y, T=1985.1, a=0.542", e=0.89, i=71.1°, ome=336.5°, Ome=100.1° (Tokovinin, A.A. 1986, Astr. Tsirk., No. 1415, p. 1)
V1809 Cyg	Amp 0.03V; not a binary: Hänni, Pelt 1986, Pis'ma AZh, 12, 541
HR 8164	
6 Cep	*Alt soln: P=2.438942d, K1=7.0
HD 203345B	Vis. orb: P=6.018y, T=1973.76, a=0.095", e=0.863, i=146.5°, ome=8.1°, Ome=278.2° (Tokovinin, A.A. 1987, Pis'ma AZh, 13, 1065 [So
CV Aqr	UG; Not a CV? (Vogt & Bateson 1982, AAp Suppl., 48, 383)
HR 8170	
HR 8169	del m=0.93
V836 Cyg	(B-V)I=+0.10
BI Vul	
HR 8194	del m=0.31
V1073 Cyg	del m=1.72V
KP Peg	
70 Cyg	
PSR 2127+11	DM=67.12; U=80.77y; Mass ratio from gam=4.9+/-1.0 ms (Anderson, et al. 1991)
VZ Aqr	*Emission line strength, visibility of secondary imply P < ~2h; I1 @ V=17.2
bet Cep	betC (3.16-3.27V)
GK Cep	del m=0.24
RS Ind	

Name	Notes
DK Cyg	
V630 Cyg	UGSU
HR 8257	del m=0.67
V632 Cyg	UGSS
CE Gru	
BX Peg	*-1.06x10-10 E2
HR 8281	del m=2.5 (lam 5150)
EE Peg	del m=2.67; Triple system: P=1464d, T=2443120., e=0.52, ome=275, K=4.4 (Lacy, C.H., Popper, D.M. 1984, ApJ, 281, 268)
2138-453	DN; (U-B)min=-1.0
42 Cap	
V1251 Cyg	UG:
pi1 Cyg	
77 Cyg	del m=0.32; Vis. orb: P=26.51y, T=1975.23, a=0.149", e=0.361, i=149.4°, ome=359.7°, Ome=191.4° (Hartkopf, W.I., McAlister, H.A.,
HR 8293	
V1668 Cyg	t3=23d
SS Cyg	Twd<40000K
HD 206874	
V1481 Cyg	
kap Peg B	Vis. orb: P=11.60y, T=1979.207, a=0.2362", e=0.313, i=108.04°, ome=304.17°, Ome=288.85° (Hartkopf, W.I., McAlister, H.A., Franz,
del Cap	Primary del Del vbl?
AI Cep	B0.5pV:+(B9II-II), i=86.7, r1=0.217, r2=0.253, I1=0.827, (qph>=0.2069) (lc: Gaposchkin, S. 1953, Harvard Ann., 113, 67)
pi2 Cyg	
SU Cep	
14 Peg	del m=0.23
HD 207826	
AG Peg	e=0.09 phi
V Gru	
S 193	
NSV 13904	UG:
HR 8357	del m=0.36
16 Peg	
EM Cep	Not a binary (see also Balona, L.A. 1990, MN, 245, 92); *I3=0.0002
BG Ind	
HR 8384	del m=0.54:; U=94y
MR Cyg	(B-V)I=+0.05

Name	Notes
CM Lac	del m=2.01; (B-V)I,II=+0.28,+0.12
DX Aqr	According to Srivastava, R.K., Sarma, B.K. 1985, ApSpSci, 111, 225, G4+K0, P=0.472502d (see Svechnikov and Kuznetsova for lc soln).

Name	RA(1950)	μ(RA)	Dec(1950)	μ(Dec)	Pos Ref	FK4	SRS	AGK3	SAO	GC	l	b
HD 209943	22 00 13.572	-6.34	+82 37 51.47	-2.3	AGK3			+82°0651	003675	30833	117.67	+21.84
LZ Cep	22 00 23.540	-0.27	+57 45 30.82	+3.3	AGK3			+57°1511	033990	30837	102.01	+02.18
32 Aqr	22 02 13.118	-0.14	-01 08 55.93	-4.8	Per70		44732	-1°2704	145853	30872	059.10	-42.22
FS Aqr	22 03 05.		-00 38 06.		GCVS						059.83	-42.08
V365 Lac	22 03 53.289	+0.18	+47 59 15.34	+1.0	AGK3			+47°1854	051645		096.64	-06.01
iot Peg	22 04 40.836	+2.195	+25 06 00.71	+2.77	FK4	831	30831	+25°2653	090238	30932	082.26	-24.26
UU Aqr	22 06 29.85		-04 01 01.4								056.79	-44.78
AR Lac	22 06 39.437	-0.44	+45 29 45.72	+6.5	AGK3			+45°1977	051684	30985	095.56	-08.30
RW PsA	22 06 56.98		-27 18 48.5		AC						023.51	-54.18
CX Cep	22 07 48.964		+57 29 43.36		AC						102.65	+01.36
HD 210737	22 10 01.260	-0.32	-21 08 13.60	-3.0	SAO				190963		033.95	-53.39
HR 8467	22 10 07.624	-0.36	-04 58 04.69	-3.1	SAO				145940	31074	056.42	-46.07
AT Peg	22 10 54.207	-0.04	+08 10 38.36	-4.0	AGK3			+8°3017	127380		070.17	-37.76
RU Peg	22 11 35.54	-0.14	+12 27 16.4	+3.7	(W83)						074.03	-34.83
HD 211433	22 14 18.976	-0.08	+22 38 47.51	-3.5	AGK3			+22°2418	090381	31158	082.43	-27.55
BD +54°2726	22 14 52.754	-0.04	+55 13 37.53	+0.9	AGK3			+55°1548			102.19	-01.04
BD +53°2837	22 15 13.201		+53 57 31.96		AC						101.52	-02.13
FO Aqr	22 15 17.40		-08 36 05.04								053.02	-49.15
AW Lac	22 16 04.60		+54 12 59.4		PI77						101.77	-01.98
CW Aqr	22 16 40.		-17 08 36.		GCVS						041.15	-53.46
GP Cep	22 16 54.536	-0.19	+55 52 29.89	+1.3	AGK3			+55°1559	034301		102.78	-00.65
HD 211853B	22 16 54.536	-0.19	+55 52 29.89	+1.3	AGK3			+55°1559	034301		102.78	-00.65
GK Aqr	22 17 23.		-00 55 42.		GCVS						062.58	-45.06
HL Aqr	22 17 53.8		+01 45 46.								065.55	-43.41
ST Aqr	22 18 24.567	+0.37	-07 12 59.69	+2.2	SAO				146035		055.42	-49.04
2 Lac	22 18 57.330	+0.19	+46 17 03.55	+1.8	AGK3			+46°1993	051904	31252	097.79	-08.86
BD +54°2745	22 19 16.829	-0.22	+55 17 55.60	+2.1	AGK3			+55°1567	034349		102.75	-01.32
BB Peg	22 20 30.	+0.19	+16 04 48.	-2.3	GCVS						078.90	-33.55
GP Aqr	22 23 02.		-08 11 48.		GCVS						055.15	-50.54
AY Aqr	22 24 12.		-19 40 00.		GCVS						038.23	-56.05
BD +53°2885	22 25 10.423		+53 55 34.44		AC						105.33	+01.34
BD +55°2756	22 27 02.414	-0.24	+56 20 49.40	+0.9	AGK3			+56°1581	034499		104.23	-01.00
del Cep C	22 27 17.496	+0.19	+58 08 51.88	+1.9	AGK3			+58°1459	034506	31419	105.19	+00.52
BS Cep	22 27 27.805		+64 59 11.40		BFW87						108.74	+06.37
V350 Lac	22 28 02.776	-0.30	+49 06 00.43	-3.4	AGK3			+49°1990	052073	31442	100.61	-07.29

Name	RA(1950)	μ(RA)	Dec(1950)	μ(Dec)	Pos Ref	FK4	SRS	AGK3	SAO	GC	l	b
BD +54°2790	22 28 08.372		+54 31 59.60		AC						103.43	-02.64
GX Peg	22 29 15.036	-0.19	+29 17 08.97	-3.8	AGK3			+29°2773	090568	31473	089.80	-24.18
KY Cep	22 30 22.		+57 24 24.		GCVS						105.16	-00.32
XZ Cep	22 30 50.559	+0.03	+66 53 34.27	+1.1	AGK3			+66°1127	020141		110.02	+07.83
EE Aqr	22 31 59.213	+0.35	-20 07 05.54	+3.1	SAO				191236		038.60	-57.92
CX Aqr	22 33 09.98		-00 57 03.3		AC						066.30	-48.07
DI Lac	22 33 46.50	+0.21	+52 27 26.1	-0.3	(D87)						103.11	-04.85
HR 8606	22 33 48.436	-0.03	+49 48 41.23	+1.3	AGK3			+49°1999	052171	31556	101.79	-07.15
CQ Cep	22 34 56.770	-0.22	+56 38 45.88	+0.3	AGK3			+56°1596	034622		105.32	-01.29
FK Aqr	22 36 01.287	+3.25	-20 52 49.35	-5.6	SAO				191294		037.82	-59.07
RV Gru	22 36 25.47		-47 08 05.6		AC						346.75	-57.46
HD 214652	22 36 48.620	+0.03	+37 06 53.25	-2.2	AGK3			+37°2248	072569	31617	095.72	-18.41
GZ Aqr	22 38 24.		-07 48 24.		GCVS						059.22	-53.43
PP Lac	22 40 34.934		+53 09 20.58		AC						104.35	-04.74
BC Gru	22 41 50.50		-48 25 59.4		AC						343.81	-57.67
ZZ Cep	22 43 20.184	-0.05	+67 51 55.48	+4.6	AGK3			+67°1034			111.56	+08.10
RZ Gru	22 44 18.21		-43 00 29.1		AC						352.99	-60.39
DH Cep	22 44 54.272	-0.01	+57 49 13.60	+0.1	AGK3			+57°1605	034810		107.07	-00.90
BD +57°2611	22 45 19.108	+0.01	+58 13 30.10	-0.1	AGK3			+58°1491	034822		107.30	-00.56
AH Cep	22 46 03.889	-0.27	+64 47 52.45	+0.4	AGK3			+64°1165	020247	31826	110.38	+05.25
TY PsA	22 46 55.5		-27 22 46.								025.89	-62.97
V360 Lac	22 48 06.137	-0.02	+41 41 17.91	-1.0	AGK3			+41°2230	052412	31861	100.04	-15.47
GD 552	22 48 45.2	+2.2	+63 12 43.0	-3.	( )						109.93	+03.70
GS Cep	22 49 26.31	+0.07	+56 44 23.0	+0.6	PI77			+56°1680			107.13	-02.14
IM Peg	22 50 34.454	-0.115	+16 34 31.28	-2.75	FK4Sup	3829	44889	+16°2549	108231	31908	086.36	-37.48
HI Aqr	22 50 50.810	+0.13	-11 52 58.44	+0.5	Per70		44891		165359	31918	056.42	-58.28
IL Cep	22 51 18.386	-0.34	+61 52 46.53	+0.6	AGK3			+61°1403	020299		109.60	+02.37
SW Lac	22 51 22.571	+0.74	+37 40 18.88	+0.6	AGK3			+37°2278	072820		098.67	-19.33
HD 216711	22 51 57.212	-0.16	+62 19 49.22	+0.6	AGK3			+62°1375	020305		109.82	+02.75
AO Psc	22 52 43.081	+0.05	-03 26 40.32	-1.4	()						068.67	-53.34
TW PsA	22 53 37.402	+2.56	-31 49 50.61	-15.8	SAO				214197	31978	015.94	-64.61
EN Lac	22 54 06.327	-0.09	+41 20 11.95	-1.1	AGK3			+41°2244	052512	31987	100.92	-16.30
HD 217061	22 54 44.244	-0.20	+62 21 26.84	-0.7	AGK3			+62°1385	020334		110.17	+02.63
GT Cep	22 55 59.145	-0.11	+68 08 22.09	+1.1	AGK3			+68°0997	020345		112.75	+07.81
NY Cep	22 56 41.180	-0.29	+62 48 32.58	-0.4	AGK3			+62°1389	020351		110.56	+02.95

RA 22h

Name	RA(1950)	μ(RA)	Dec(1950)	μ(Dec)	Pos Ref	FK4	SRS	AGK3	SAO	GC	l	b
									214237		010.64	-65.25
TZ PsA	22 57 42.167	-0.35	-34 00 41.25	-13.2	SAO						110.55	+02.62
HD 217463	22 57 43.186	-0.29	+62 30 32.18	-0.3	AGK3			+62°1390	020358		110.71	+02.65
BD +62°2155	22 58 54.434		+62 36 47.06		AC							
omi And B	22 59 36.882	+0.186	+42 03 25.50	-0.04	(FK4)	869		+42°2238	052609	32095	102.21	-16.10

Name	Sp1	Sp2	T-JD 2400000	P	e	omeI	V0	K1	K2	v1 sin i	v2 sin i
HD 209943	G4(V)p	[G4V]	31660.819	1.1522143	0	-	-17.0	105.6	112.4	*	
LZ Cep	O8.5III	O9Vn	48042.708	3.070507	0.0310	161	-11.33	89.0	232.9	155	105
32 Aqr	A4/9/F3(III)m	[M5V]	21810.585	7.8327	0.00	-	+20.45	6.82		19	
FS Aqr			45240.400	0.2620495							
V365 Lac	B2V	[B5V]	46627.87480	2.172710	0.025	127	-16.3	121.1	185	160	
iot Peg	F5V	G8V	45322.6956	10.213033	0.00	-	-5.5	48.1	77.9	6.5	5
UU Aqr			46347.2667	0.163579089	0	-	+23.	121			
AR Lac	G2IV-V	K0IV	41593.7123	1.98319204	0	-	-33.7	116.1	115.6	39	72.*
RW PsA			34328.4534	0.36045101							
CX Cep	WN5	O8V	44451.4234	2.12687	0	-	-93.	340	240		
HD 210737	F5/6V		44392.129	2.1980	0.04	333	+5.	91	97		
HR 8467	F5IV	[F4V]	42452.09	42.38113	0.616	294.7	+13.7	49.5	62.1	12	
AT Peg	A7V		45219.8489	1.1460764	0.024	305	+3.9	87.6			
RU Peg	sdBe	K1-3V	47404.0918	0.3746	0	-	+5.	94	121	438 Sh;	80
HD 211433	A0[V]m	[K5V]	26907.762	3.57027	0.0102	267.6	+4.5	36.2			
BD +54°2726	B1II		37598.64	13.02586	0.22	249	-53.7	60.1			
BD +53°2837	B2III	[B5V]	37563.88	4.35530	0.08	73	-55.8	76.0			
FO Aqr	sdBe		46081.3037	0.20205956	0	-	+6.		151. e	416 Wi	
AW Lac	B2:(IV)	(B3IV)	44488.1720	1.14285456							
CW Aqr	A3		26192.548	0.542909							
GP Cep	WN6/WCE	O8-B0III:	43693.69	6.6884	0.0	-	-52.	247	56		
HD 211853B	O[9V]	O[9V]	43691.32	3.4698	0	-	-55.	66			
GK Aqr			45233.292	0.3274097							
HL Aqr	sdBe			0.1356	0	-	-20.:	100			
ST Aqr	A7V	G8IV:	41236.316	0.78099525							
2 Lac	B6IV	B6V	27700.80	2.616430	0.040	97.4	-8.9	79.5	100.0	47	
BD +54°2745	B0.5IV:n	[B3V]	37560.28	5.41495	0.24	33	-65.6	87.4			
BB Peg	F8V		43764.3334*	0.3615021							
GP Aqr			45581.429	0.4052365?							
AY Aqr	[G8]	(G2)	25446.55	0.281995							
BD +53°2885	B2III	[F6V]	37578.16	5.77861	0.16	91	-54.1	18.7			
BD +55°2756	B3II	[B9.5V]	37576.33	3.5320	0.35	333	-46.3	30.9			
del Cep C	B7IV		40534.36	0.89986?	0	-	-16.4	8.6		135	
BS Cep				(0.481 ACP)							
V350 Lac	K2III-IVp	[G0V]	31656.953	17.755	0.0226	103.34	+5.356	40.172		36	

Name	Sp1	Sp2	T-JD 2400000	P	e	omeI	V0	K1	K2	v1 sin i	v2 sin i
BD +54°2790	B0IVn	[B2V]	37578.42	2.98330	0.24	60	-64.3	107.9			
GX Peg	A8Vm	[F9V]	25940.395	2.3409451	0.023	51	+0.3	84.7		48	
KY Cep	Pec (cont)										
XZ Cep	B1.1III-V	B1.5II-III	43299.733	5.0972267	0.13	244	-1.0	172.8	219.3		
EE Aqr	F0V		40828.7804	0.50899555	0	-	-2.3	91.3	284		
CX Aqr	F2(V)p	(G8IV-V)	45994.89244	0.5559864	0	-	+13.	112	205		
DI Lac	sdBe			0.543773	0	-	+5.7	44.3		151: Wi	
HR 8606	B3IV	(B9V)	24340.19	10.9188	0.254	60.8	-16.4	82.3	119.3:	55	
CQ Cep	WN5.5	O9.0(V)	32456.668	1.641249	0.0	-	-57.4	297.4	241.1		
FK Aqr	M1Ve	M1Ve	37144.078	4.08322	0.010	356	-8.7	46.8	58.1	*	
RV Gru	G8(V)		42655.7905	0.25951625							
HD 214652	B2V	[B8V]	28181.593	1.254523	0.027	321	-13.7	63.5		115	
GZ Aqr			45594.459	0.2322704?							
PP Lac	[F4]	(F3)	42903.235	0.40116150							
BC Gru	[K1]	(K1)	36814.292	0.26617							
ZZ Cep	B8V	F0V	27927.816	2.141800	0.03	340	-17.4	95.0	205.0		
RZ Gru	sdBe	(K9V)		(0.197)	0	-	+4.	76			
DH Cep	O5.5(IV-V)	O6.5IV-Vn	32759.807	2.111040	0.127	107.4	-35.4	261.7	321.4	185	
BD +57°2611	B0III	[B7V]	37596.88	2.66765	0.52	72	-42.4	50.2			
AH Cep	B0.5Vne	B0.5Vn	34989.4406	1.7747413	0	-	-21.	237	269	175	180
TY PsA	sdBe		47818.303	0.08414	0	-	+6.	68		653 e	
V360 Lac	B3IV:ealpv	[K6V]	41895.8077	10.06836	0	-	-17.2	15.0	175	225	
GD 552	sdBe		47365.5473	0.07134	0	-	-48.	16		453 e	
GS Cep	A0		47414.4350	1.471625							
IM Peg	K1-2II-IIIe	[A2V]	22366.568	24.649	0.0	-	-12.84	33.20		36.*	
HI Aqr	B9IIIpHgMn		41989.11	3.42981	0.059	70	-7.3	95.3	115.1	5	
IL Cep	B2IV-Vne			2.802:						180	
SW Lac	G8Vp	G8Vp	42697.4018	0.320719765	0	-	-15.94	203.3	165.0		
HD 216711	B1V	[B8V]	40484.494	5.6556	0.309	154.8	-23.7	47.8		280	
AO Psc	sdBe		47378.4647	0.1496254	0	-	+20.	<150.		355 Wi	
TW PsA	K4Ve			10.3							
EN Lac	B2IV		44909.4645	12.096816	0.047	91	-12.7	23.4		23	
HD 217061	B1V	[B1V]	40485.30	2.6660	0	-	-39.	108	108	260	
GT Cep	B3V		37834.970	4.908756	0.063	346	-4.9	70.5	207:		
NY Cep	B0.5V		41903.3806	15.275727	0.48	58	-14.	112	158	75	110

Name	Bayer	Flmstd	HR	HD	BD	CoD	CPD	Var	Other
HD 209943				209943	+82°0674				X2200+826 (1ES?)
LZ Cep		14 Cep	8406	209481	+57°2441			LZ Cep	CSV 8739; LS III +57°20
32 Aqr		32 Aqr	8410	209625	-1°4242				104G Aqr
FS Aqr								FS Aqr	SVS 2631
V365 Lac			8427	209961	+47°3692			V365 Lac	
iot Peg	iot Peg	24 Peg	8430	210027	+24°4533				
UU Aqr									9H Peg; Gl 848; IRC +30485; NSV 14034
AR Lac			8448	210334	+45°3813			UU Aqr	32.1923; S 196; SVS 2636
RW PsA						-27°15798		AR Lac	126.1907; HV 2980; INCA 1250; X2206+45
CX Cep								RW PsA	62.1942; S 3322
HD 210737				210737	-21°6175		-21°08073	CX Cep	LS III +57°26; MR 114; WR 151
HR 8467			8467	210763	-5°5732				
AT Peg				210892	+7°4824				121G Aqr
RU Peg								AT Peg	328.1931
HD 211433				211433	+22°4601			RU Peg	142.1904
BD +54°2726					+54°2726				
BD +53°2837					+53°2837				LS III +55°31
FO Aqr									LS III +53°70
AW Lac								FO Aqr	PB 7131; X2215-086 (H)
CW Aqr				211708	-17°6490			AW Lac	127.1907; HV 2981; LS III +54°39; Zi 2082
GP Cep								CW Aqr	258.1932; P 2329
HD 211853B				211853 A	55°2721 A			GP Cep	LS III +55°34A; MR 116; WR 153
GK Aqr				211853 B	55°2721 B				LS III +55°34B
HL Aqr								GK Aqr	SVS 2647
ST Aqr				211965	-7°5753			HL Aqr	PHL 227
2 Lac		2 Lac	8523	212120	+45°3894			ST Aqr	134.1908; HV 3155
BD +54°2745				235807	+54°2745				5H Lac; NSV 14130
BB Peg									LS III +55°53
GP Aqr								BB Peg	93.1931
AY Aqr								GP Aqr	SVS 2653
BD +53°2885					+53°2885			AY Aqr	HV 4989
BD +55°2756				239967	+55°2756				LS III +53°79
del Cep C	del Cep C	27 Cep C		213307	+57°2547				LS III +56°59
BS Cep									IRC +60356
V350 Lac			8575	213389	+48°3747			BS Cep	569.1936; P 5682
								V350 Lac	INCA 1251

Name	Bayer	Flmstd	HR	HD	BD	CoD	CPD	Var	Other
BD +54°2790					+54°2790				LS III +54°62
GX Peg			8584	213534	+28°4389			GX Peg	
KY Cep								KY Cep	SVS 1807
XZ Cep					+66°1521			XZ Cep	439.1928; LS III +66°5
EE Aqr				213863	-20°6454		-20°08380	EE Aqr	BV 320
CX Aqr								CX Aqr	752.1933; P 2350
DI Lac				214239				DI Lac	137.1910; N Lac 1910
HR 8606			8606	214240	+49°3903				NSV 14243
CQ Cep				214419	+56°2818			CQ Cep	HV 11086; LS III +56°80; MR 118; WR 155
FK Aqr				214479	-21°6267		-21°08162	FK Aqr	Gl 867A; INCA 1254; X2236-208 (1ES)
RV Gru						-47°14285		RV Gru	CSV 5583; S 5146
HD 214652				214652	+36°4898				
GZ Aqr								GZ Aqr	SVS 2669
PP Lac								PP Lac	CSV 8787; VV 427; Wr 21
BC Gru						-48°14299	-48°10806	BC Gru	CSV 8788; S 6498
ZZ Cep				215661	+67°1463			ZZ Cep	410.1929
RZ Gru								RZ Gru	CSV 5609; S 5150
DH Cep				215835	+57°2607			DH Cep	LS III +57°76; NGC 7380-2
BD +57°2611				240068	+57°2611				LS III +58°55
AH Cep				216014	+64°1717			AH Cep	LS III +64°9
TY PsA								TY PsA	BV 981; NSV 14328; PS 74
V360 Lac		14 Lac	8690	216200	+41°4623			V360 Lac	CSV 103103
GD 552									GD 552
GS Cep					+56°2885			GS Cep	BV 384
IM Peg			8703	216489	+16°4831			IM Peg	INCA 1257; NSV 14343; X2250+165 (1H)
HI Aqr		74 Aqr	8704	216494	-12°6371			HI Aqr	187G Aqr
IL Cep				216629	+61°2361			IL Cep	LS III +61°17; MWC 1075
SW Lac				216598	+37°4717			SW Lac	17.1918; HV 3435; X2251+376 (1ES)
HD 216711				216711	+61°2364				LS III +62°23; NSV 14354
AO Psc								AO Psc	X2252-034 (3A,H,1H)
TW PsA			8721	216803		-32°17321	-32°06550	TW PsA	65G PsA; Gl 879
EN Lac		16 Lac	8725	216916	+40°4949			EN Lac	
HD 217061				217061	+61°2372				LS III +62°30; NSV 14371
GT Cep				217224	+67°1485			GT Cep	BV 374
NY Cep				217312	+62°2147			NY Cep	LS III +62°32

Name	Sp1	Sp2	T-JD 2400000	P	e	omel	V0	K1	K2	v1 sin i	v2 sin i
TZ PsA	G5Vp		44000.748	1.64250	0.0	-	+31.5	60.9	87.6	*	
HD 217463	B1.5V	[K3V]	40523.643	1.1368	0.299	313.3	-21.7	20.7		245	
BD +62°2155	B2IV	[B7V]	40487.725	1.0392	0.159	47.6	-24.7	64.3		230	
omi And B	(B7V)	(B8V)	46925.3	33.01	0.24	226.2	-14.3	54.8	71.6	40:	40:

Name	Spectroscopic orbit
HD 209943	Sanford, R.F. 1927, ApJ, 65, 295
LZ Cep	Howarth, I.D., Stickland, D.J., Prinja, R.K., Koch, R.H., Pfeiffer, R.J. 1991, Obs., 111, 167
32 Aqr	Jones, R.B., Farnsworth, A.H. 1932, Lick Bull., 16, 46
FS Aqr	
V365 Lac	Aslanov, A.A., Khruzina, T.S. 1990, AZh, 67, 1010 (1991, Sov. Astr., 34, 508); van Albada, T.S., Klomp, M. 1969, BAN, 20, 208
iot Peg	Fekel, F.C., Tomkin, J. 1983, PASP, 95, 1000
UU Aqr	Diaz, M.P., Steiner, J.E. 1991, AJ, 102, 1417
AR Lac	Sanford, R.F. 1951, ApJ, 113, 299
RW PsA	
CX Cep	Lewis, D., Moffat, A.F.J., Robert, C. 1991, IAU Symp. 143, 256; Massey, P., Conti, P.S. 1981, ApJ, 244, 169
HD 210737	Andersen, J., Nordström, B. 1985, Astr. Ap. Suppl., 62, 355
HR 8467	Nadal, R., Carquillat, J.M., Pédoussaut, A., Ginestet, N. 1983, AAp Suppl., 52, 293
AT Peg	Hill, G., Barnes, J.R. 1972, PASP, 84, 430
RU Peg	Stover, R.J. 1981, ApJ, 249, 673
HD 211433	Albitzky, V.A. 1949, Izv. Krym. Ap. Obs., 4, 144
BD +54°2726	Abt, H.A., Jennings, M., Lee, P.D., Villere, K.R. 1970, ApJ, 161, 477
BD +53°2837	Abt, H.A., Jennings, M., Lee, P.D., Villera, K.R. 1970, ApJ, 161, 477
FO Aqr	Martell, P.J., Kaitchuck, R.H. 1991, ApJ, 366, 286
AW Lac	
CW Aqr	
GP Cep	Massey, P. 1981, ApJ, 244, 157
HD 211853B	Massey, P. 1981, ApJ, 244, 157
GK Aqr	
HL Aqr	Haefner, R., Schoembs, R. 1987, MN, 224, 231
ST Aqr	
2 Lac	Hilditch, R.W. 1974, MN, 169, 323
BD +54°2745	Abt, H.A., Jennings, M., Lee, P.D., Villere, K.R. 1970, ApJ, 161, 477
BB Peg	Hrivnak, B.J. 1990, BAAS, 22, 1291
GP Aqr	
AY Aqr	
BD +53°2885	Abt, H.A., Jennings, M., Lee, P.D., Villere, K.R. 1970, ApJ, 161, 477
BD +55°2756	Abt, H.A., Jennings, M., Lee, P.D., Villere, K.R. 1970, ApJ, 161, 477
del Cep C	Vitrichenko, E.A., Marsakov, V.A., Kholopov, P.N., Tsarevskij, G.S. 1974, Izv. Krym. Astrofiz. Obs., 49, 80
BS Cep	
V350 Lac	Northcott, R.J. 1947, Pub. DDO, 1, 369

Name	Spectroscopic orbit
BD +54°2790	Abt, H.A., Jennings, M., Lee, P.D., Villere, K.R. 1970, ApJ, 161, 477
GX Peg	Bolton, C.T. Geffken, N. 1976, PASP, 88, 195
KY Cep	
XZ Cep	Glazunova, L.V. 1985, Biull. Abastumaskoj Astrofiz. Obs., 58, 45
EE Aqr	Hilditch, R.W., King, D.J. 1988, MN, 232, 147
CX Aqr	McFarlane, T.M., et al. 1986, MN, 223, 607
DI Lac	(Kraft, R.P. 1964, ApJ, 139, 457)
HR 8606	van Albada, T.S., Klomp, M. 1969, BAN, 20, 208
CQ Cep	Stickland, D.J., et al. 1984, AAp, 134, 45; Kartasheva, T.A., Snezhko, L.I. 1985, Biull. Abastumanskoj Astrofiz. Obs., 58, 25
FK Aqr	Herbig, G.H., Moorhead, J.M. 1964, ApJ, 141, 649
RV Gru	
HD 214652	van Albada, T.S., Klomp, M. 1969, BAN, 20, 208
GZ Aqr	
PP Lac	
BC Gru	
ZZ Cep	Herbig, G.H. 1947, ApJ, 106, 112
RZ Gru	(Stickland, D.J., et al. 1984, MN, 206, 819)
DH Cep	Pearce, J.A. 1949, AJ, 54, 135
BD +57°2611	Abt, H.A., Jennings, M., Lee, P.D., Villere, K.R. 1970, ApJ, 161, 477
AH Cep	Holmgren, D.E., Hill, G., Fisher, W. 1990, AAp, 236, 409
TY PsA	O'Donoghue, D., Soltynski, M.G. 1992, MN, 254, 9
V360 Lac	(Adams, W.S., Joy, A.H. 1917, PASP, 29, 259; Plaskett, J.S., Pearce, J.A. 1931, Pub. DAO, 5, 1; Blaauw, A., van Albada, T.S. 1963, ApJ, 1
GD 552	Hessman, F.V., Hopp, U. 1990, AAp, 228, 387
GS Cep	
IM Peg	Harper, W.E. 1920, Pub. DAO, 1, 203
HI Aqr	Wolff, R.J. 1974, PASP, 86, 173
IL Cep	
SW Lac	Zhai, D., Lu, W. 1989, AAp Sin., 9, 208 (Chin. AAp, 13, 350)
HD 216711	Garmany, C.D. 1972, AJ, 77, 38
AO Psc	Hellier, C., Cropper, M., Mason, K.O. 1991, MN, 248, 233
TW PsA	
EN Lac	LeContel, J.M., Ducatel, D., Jarzebowski, T., Jerzykiewicz, M., Valtier, J.-C. 1983, AAp, 118, 294
HD 217061	(Garmany, C.D. 1972, AJ, 77, 38)
GT Cep	FitzGerald, P. 1964, Pub. DDO, 2, 417
NY Cep	Holmgren, D.E., Hill, G., Fisher, W., Scarfe, C.D. 1990, AAp, 231, 89

Name	Bayer	Flmstd	HR	HD	BD	CoD	CPD	Var	Other
TZ PsA				217344		-34°15853	-34°09207	TZ PsA	INCA 2669; X2257-340 (1ES)
HD 217463				217463	+62°2152				LS III +62°34
BD +62°2155					+62°2155				LS III +62°35
omi And B	omi And B	1 And B	8762 B	217676	41°4664 B				2H And B; Zi 2119

Name	Spectroscopic orbit
TZ PsA	Collier-Cameron, A., Lloyd Evans, T., Balona, L.A. 1988, MN, in press
HD 217463	Garmany, C.D. 1972, AJ, 77, 38
BD +62°2155	Garmany, C.D. 1972, AJ, 77, 38
omi And B	Hill, G.M., Walker, G.A.H., Dinshaw, N., Yang, S., Harmanec, P. 1988, PASP, 100, 243

Name	V	B-V	U-B	R-I	E(B-V)	par	Cluster	ADS	Vis Binary	Companions
HD 209943	7.49	+0.70	+0.17		0.05	0.008		15571 B	Sig 2873 B	7.1, 13.7"
LZ Cep	5.50	+0.06	-0.96			-0.009	Cep OB2			
32 Aqr	5.30	+0.23	+0.15	+0.11	0.00	0.014	UMa			
FS Aqr	13.2 p									
V365 Lac	6.27	-0.06	-0.71				Lac OB1			
iot Peg	3.76	+0.44	-0.04	+0.25	0.00	0.094			bet pm A	11.2, 103.7"
UU Aqr	11.8 v									
AR Lac	6.11	+0.72	+0.26	+0.33E	0.00	0.0213;	R0.0200			
RW PsA	11.05	+0.75								
CX Cep	12.36	+0.65	+0.37		1.04		(Cep OB2)			
HD 210737	7.547	(+0.50)								
HR 8467	6.38	+0.50	+0.04		0.06					
AT Peg	8.97									
RU Peg	9.0 v				0.00 u					12.5, 12"
HD 211433	6.92	+0.11	+0.12		0.13					
BD +54°2726	9.38	+0.33	-0.54				<Cep-Lac OB1>; <Cep OB1>			
BD +53°2837	9.97	+0.26	-0.54		0.46		Cep OB1			
FO Aqr	13.60	+0.07	-0.91	+0.15	0.00 u					
AW Lac	10.61				0.52 m		Cep OB1			
CW Aqr	10.7 p									
GP Cep	9.08 D	+0.27	+0.20		0.50 u		Cep OB1			O+O (P=3.4698d)
HD 211853B	9.08 D	+0.28	-0.55		0.50 u		Cep OB1			WN6+OB (P=6.6884d)
GK Aqr	12.5 p									
HL Aqr	13.45	-0.04	-0.75	+0.03	0.05 u					
ST Aqr	9.15	+0.44	+0.12							
2 Lac	4.57	-0.10	-0.51	-0.11	0.02	0.040		15862 A	h 1755 A	11.0, 48.2"
BD +54°2745	9.56	+0.21	-0.67		0.47		Cep OB1			
BB Peg	10.74	+0.69								
GP Aqr	10.9 p									
AY Aqr	13.7 p									
BD +53°2885	10.46	+0.04	-0.76		0.22		(Cep OB2)			
BD +55°2756	9.36	+0.33	-0.49		0.46		Cep OB1			
del Cep C	6.31	-0.03	-0.36					15987 C	Sig I 58 B	3.75V, F5Ib-G2Ib, 40.8"; 13.0v, 46.7
BS Cep	13.9 p				0.36 m					
V350 Lac	6.38	+1.17	+1.00						Frk A	9.7, 63.9"

Name	V	B-V	U-B	R-I	E(B-V)	par	Cluster	ADS	Vis Binary	Companions
BD +54°2790	9.69	+0.20	-0.67		0.51		Cep OB1			
GX Peg	6.35	+0.19	+0.11		0.02 m					
KY Cep	4: p				0.01 m					
XZ Cep	8.0	+0.80	-0.33		1.05					
EE Aqr	7.94	+0.36								
CX Aqr	10.54	+0.49	-0.07							
DI Lac	14.47	+0.25	-0.67							
HR 8606	6.29	-0.05	-0.54		0.17					
CQ Cep	8.78	+0.29	+0.16		0.51 u		Cep OB1			
FK Aqr	9.07	+1.50	+1.11	+0.94		0.109			h 3126 A	11.44, 23.5"
RV Gru	10.97	+0.926	+0.599	+0.566						
HD 214652	6.84	-0.11	-0.74		0.12		Lac OB1	16143 A	OSig 475 A	10.8, 15.5"
GZ Aqr	14.7 p									
PP Lac	11.51	+0.73								
BC Gru	9.9 p									
ZZ Cep	8.60	+0.28	-0.15					16252 A	OSig 529 A	10.2, A2p, 3.5"; 10.86, +0.45, +0.2
RZ Gru	12.53	+0.06	-0.75	+0.17	0.0 u					
DH Cep	8.59	+0.35	-0.65		0.67		NGC 7380		h 1810 A	
BD +57°2611	9.65	+0.49	-0.51		0.78		NGC 7380			
AH Cep	6.81	+0.30	-0.63		0.56		Cep OB3			P3=12830d
TY PsA	12.55	-0.02	-0.80		0.05					
V360 Lac	5.91	+0.08	-0.51		0.28		Lac OB1?		CHARA 115	
GD 552	17.0									
GS Cep	10.2 p									
IM Peg	5.64	+1.12	+0.90		0.19	0.0196				
HI Aqr	5.80	-0.08	-0.31	-0.05	0.00				McA 73 A	6.7v, 0.2"
IL Cep	9.29	+0.72	-0.19				Cep OB3			11.91, 7.326"
SW Lac	8.51	+0.74	+0.33			0.005				
HD 216711	9.08	+0.62	-0.32		0.85		Cep OB3			
AO Psc	13.30	+0.01	-1.00	+0.13	0.10 u					
TW PsA	6.44	+1.10	+1.02	+0.59		0.130				
EN Lac	5.59	-0.14	-0.83				Lac OB1	16381 A	Sig 2960 A	11.5v, F0, 27"; 9.2, F5IV, 62.1"
HD 217061	8.79	+0.70	-0.25		0.95		Cep OB3			
GT Cep	8.22	+0.23								
NY Cep	7.402	+0.39	-0.45		0.71		Cep OB3			10.33, 10"

Name	V	B-V	U-B	R-I	E(B-V)	par	Cluster	ADS	Vis Binary	Companions
TZ PsA	8.45	+0.71	+0.21	+0.40		0.0217			B 582 A	del m=3.9, 3.7"
HD 217463	9.02	+0.54	-0.33		0.79		Cep OB3			
BD +62°2155	9.81	+0.71	-0.12		0.97		Cep OB3			
omi And B	3.62 D	-0.09	-0.53	-0.08		0.015			Hynek 107 B; McA	del m""-0.5-1.0; Aa: B5IIIpe, 0.34"

Name	Vbl type	Min I	Min II	D	d	i	r1	r2	l1	qph
HD 209943	-									
LZ Cep	ELL	5.66 B	5.63 B			59.46 s 50. 53.99 pi	0.43	0.31	0.65 bol	
32 Aqr										
FS Aqr	EW/KW	14.05 p	13.7 p							
V365 Lac	ELL					⁻38.	0.418	0.344	0.17: V	
						84.13 s	0.052 ome	0.04 ome		
iot Peg										
UU Aqr	SR	15.15 B		[0.055]						
AR Lac	EA/AR/RS	6.77	6.43	0.17		88.6	0.172	0.303	0.392 y	
RW PsA	EW/KW	11.76	11.63			77.45	0.404	0.368	0.606 V	0.813
CX Cep	EB/WR	(0.15)	(0.07)			74. P	0.12	0.36		
HD 210737										
HR 8467						88.26 se	0.031 ome			
AT Peg	EA/SD	9.75	9.04	0.18		76.72	0.292	0.301	0.929 p	
RU Peg	UGSS+ZZ:	12.71				39.59 p		0.372 ome		
HD 211433						53.58 pi				
BD +54°2726										
BD +53°2837						51.54 pi				
FO Aqr	XPR			⁻0.15		⁻70.?				
AW Lac	EB/KE	11.40	11.22			78.45	0.4560	0.4560	0.581 y	1.00
CW Aqr	EB/KE	11.0 p	10.8 p			65.	0.50	0.26	0.95 p	0.26
GP Cep	E/WR+E:	9.07				78.2 P				
HD 211853B						14.98 s				
GK Aqr	EW/KW	13.65 p	13.5 p							
HL Aqr	NL									
ST Aqr	EB/KE:	9.67	9.37			78.5	0.446	0.229	0.976 V	0.466
2 Lac	ELL:					34.71 s	0.26 ome		0.72 ome	
BD +54°2745						57.69 pi				
BB Peg	EW/KW	11.41	11.33		0.05; 0.00	86.7	0.297	0.477	0.338 V	2.811
GP Aqr	R:+E:	11.6 p								
AY Aqr	EW/KW	14.7 p	14.3 p			85.	0.424	0.294	0.59 p	0.59
BD +53°2885						47.90 pi				
BD +55°2756						32.08 pi				
del Cep C										
BS Cep	UGZ:	16.0 p				57.63 pi				
V350 Lac	ELL+RS	6.47	6.45			79.25 pi				

Name	Vbl type	Min I	Min II	D	d	i	r1	r2	l1	qph
BD +54°2790						49.51 pi				
GX Peg	DSCTC					72.11 pi				
KY Cep	Unique	13: p								
XZ Cep	EB/DM:	8.83	8.43			90.	0.303	0.219	0.847 V	2.488
EE Aqr	EB/KE:	8.58	8.14			80.2	0.469	0.277	0.968 V	0.327
CX Aqr	EA/SD	11.78	10.87			85.2	0.372	0.332	0.830 V	
DI Lac	NA									
HR 8606	-					60.32 s	0.202 ome		0.926 s	
CQ Cep	EB/DM/WR	(0.18)	(0.09)			78. P	0.39	0.42	0.40 V*	(1.23)
FK Aqr	UV+BY					51.80 s				
RV Gru	EW/KW	11.59	11.58			70.	0.397	0.317	0.60 V	0.78
HD 214652						34.33 ome				
GZ Aqr	EW:/KW:	15.3 p	15.2 p							
PP Lac	EW/KW	12.20	12.17			85.	0.45	0.27	0.72 p	0.44
BC Gru	EW:/KW:	10.3 p	10.3 p			70.	0.408	0.308	0.62 p	0.7
ZZ Cep	EA/DM	9.55	8.74	0.12		86.3	0.305	0.228	0.972 V	
RZ Gru	NL	13.23				26.39 s				
DH Cep	ELL	(0.042)	(0.037)			⁻50.	0.292 ome		0.56 s	
BD +57°2611						33.59 pi				
AH Cep	EB/DM	7.07	7.03			69.18	0.336	0.309	0.5865 bol	
TY PsA	UGSU	17. B				⁻70.				
V360 Lac	EB/DM:	5.98	5.93			72.73 s	1.18 ome			
GD 552										
GS Cep	EB/KE	(0.4)	(0.3)	0.095						
IM Peg	RS					47.60 pi				
HI Aqr	ACV					56.76 s	0.023 ome		0.606	
IL Cep	EA	9.61	9.61		0.055	72.5	0.445	0.240	0.95 V	0.20
SW Lac	EW/KW	9.33	9.31			80.22	0.3895	0.4257	0.4851	1.2321
HD 216711	EA:			0.33	0.09	49.69 pi				
AO Psc	XPR									
TW PsA	BY	6.51				83.3	0.128	0.024	⁻⁻1 V	
EN Lac	BCEP+EA/D					28.44 s	1.204 ome			
HD 217061	-					77.4	0.171	0.311	0.521 b	
GT Cep	EA/SD	9.02	8.56	0.14		⁻78	0.094	0.074	0.72 V	
NY Cep	EA/DM	7.55		0.019	0.003					

Name	Vbl type	Min I	Min II	D	d	i	r1	r2	ll	qph
TZ PsA	RS									
HD 217463						42.48 pi				
BD +62°2155						28.56 pi				
omi And B							0.241: ome	0.241: ome		

Name	Photometric solution
HD 209943	
LZ Cep	Howarth, I.D., Stickland, D.J., Prinja, R.K., Koch, R.H., Pfeiffer, R.J. 1991, Obs., 111, 167
32 Aqr	
FS Aqr	(Kurochkin, N.E. 1986, Perem. Zvezdy, 22, 327)
V365 Lac	Aslanov, A.A., Khruzina, T.S. 1990, AZh, 67, 1010 (1991, Sov. Astr., 34, 508)
iot Peg	
UU Aqr	(Diaz, M.P., Steiner, J.E. 1991, AJ, 102, 1417)
AR Lac	Lee, E.-H., Chen, K.-Y., Nha, I.-S. 1986, AJ, 91, 1438
RW PsA	Lucy, L.B., Wilson, R.E. 1979, ApJ, 231, 502
CX Cep	Schulte-Ladbeck, R.E., van der Hucht, K.A. 1989, ApJ, 337, 872; Lewis, D., Moffat, A.F.J., Robert, C. 1991, IAU Symp. 143, 256
HD 210737	
HR 8467	
AT Peg	Cristaldi, S., Walter, K. 1963, AN, 287, 103
RU Peg	
HD 211433	
BD +54°2726	
BD +53°2837	
FO Aqr	Hellier, C., Mason, K.O., Cropper, M. 1989, MN, 237, 39P
AW Lac	Jiang, Z.J., Leung, K.C., Shen, L.Z. 1983, AJ, 88, 1679
CW Aqr	Svechnikov, M.A., Kuznetsova, E.F. 1990, Katalog Priblizhennykh Fotometricheskikh i Absolyutnykh Elementov Zatmennykh Peremennykh Zvez
GP Cep	St.-Louis, N., Moffat, A.F.J., Drissen, L., Bastien, P., Robert, C. 1988, ApJ, 330, 286
HD 211853B	
GK Aqr	(Kurochkin, N.E. 1986, Perem. Zvezdy, 22, 327)
HL Aqr	
ST Aqr	Karimie, M.T., Duerbeck, H.W. 1985, ApSpSci, 117, 375
2 Lac	
BD +54°2745	
BB Peg	Leung, K.-C., Zhai, D., Zhang, Y. 1985, AJ, 90, 515
GP Aqr	(Kurochkin, N.E. 1986, Perem. Zvezdy, 22, 327)
AY Aqr	Svechnikov, M.A., Kuznetsova, E.F. 1990, Katalog Priblizhennykh Fotometricheskikh i Absolyutnykh Elementov Zatmennykh Peremennykh Zvez
BD +53°2885	
BD +55°2756	
del Cep C	
BS Cep	
V350 Lac	(Herbst, W. 1973, AAp, 26, 137)

Name	Photometric solution
BD +54°2790	
GX Peg	
KY Cep	
XZ Cep	Giuricin, G., Mardirossian, F., Mezzetti, M. 1984, MN, 211, 39
EE Aqr	Covino, E., Barone, F., Milano, L., Russo, G., Sarna, M.J. 1990, MN, 246, 472
CX Aqr	McFarlane, T.M., et al. 1986, MN, 223, 607
DI Lac	
HR 8606	
CQ Cep	Drissen, L., Moffat, A.F.J., Bastien, P., Lamontagne, R., Tapia, S. 1986, ApJ, 306, 215; Antokhina, É.A., Cherepashchuk, A.M. 1988, AZh, 6
FK Aqr	
RV Gru	Svechnikov, M.A., Kuznetsova, E.F. 1990, Katalog Priblizhennykh Fotometricheskikh i Absolyutnykh Elementov Zatmennykh Peremennykh Zvez
HD 214652	
GZ Aqr	(Kurochkin, N.E. 1986, Perem. Zvezdy, 22, 327)
PP Lac	Svechnikov, M.A., Kuznetsova, E.F. 1990, Katalog Priblizhennykh Fotometricheskikh i Absolyutnykh Elementov Zatmennykh Peremennykh Zvez
BC Gru	Svechnikov, M.A., Kuznetsova, E.F. 1990, Katalog Priblizhennykh Fotometricheskikh i Absolyutnykh Elementov Zatmennykh Peremennykh Zvez
ZZ Cep	Cester, B., Fedel, B., Giuricin, G., Mardirossian, F., Mezzetti, M. 1978, AAp Suppl., 33, 91
RZ Gru	
DH Cep	Lines, H.C., Lines, R.D., Guinan, E.F., Robinson, C.R. 1986, IBVS 2932
BD +57°2611	
AH Cep	Bell, S.A., Hilditch, R.W., Adamson, A.J. 1986, MN, 223, 513
TY PsA	Barwig, H., Hunger, K., Kudritzki, R.P., Vogt, N. 1982, Astr. Ap., 114, L11
V360 Lac	
GD 552	
GS Cep	
IM Peg	
HI Aqr	
IL Cep	Svechnikov, M.A., Kuznetsova, E.F. 1990, Katalog Priblizhennykh Fotometricheskikh i Absolyutnykh Elementov Zatmennykh Peremennykh Zvez
SW Lac	Zhai, D., Lu, W. 1989, AAp Sin., 9, 208 (Chin. AAp, 13, 350)
HD 216711	
AO Psc	
TW PsA	
EN Lac	Pigulski, A., Jerzykiewicz, M. 1988, Acta Astr., 38, 401
HD 217061	
GT Cep	Giuricin, G., Mardirossian, F., Mezzetti, M. 1982, AAp Suppl., 49, 89
NY Cep	Holmgren, D.E., Hill, G., Fisher, W., Scarfe, C.D. 1990, AAp, 231, 89

Name

TZ PsA
HD 217463
BD +62°2155
omi And B

Photometric solution

Name	M1	M2	A	R1	R2	T1	T2	log L1	log L2	Distance	U	V	W
HD 209943	1.00 s	0.94 s								42.1 s			
LZ Cep	17.06	6.52											
32 Aqr	1.79 s	0.121 pi								71.4 pi			
FS Aqr													
V365 Lac	16.71	10.94											
iot Peg	1.33 s	0.82 s								11.9 spi			
UU Aqr													
AR Lac	1.28	1.28								45.1 phi			
RW PsA													
CX Cep	20.03	28.38											
HD 210737													
HR 8467	1.67 se	1.33								63.5 s			
AT Peg													
RU Peg	1.10	0.86 p								174. s'			
HD 211433	2.24 s	0.66 pi								139. s			
BD +54°2726													
BD +53°2837	12.02 s	4.89 pi								2900. s			
FO Aqr													
AW Lac	10.59 s'	10.59 phi								3180. phi			
CW Aqr													
GP Cep	3.80	16.76								3470. g			
HD 211853B	23.99 s	23.99 s								3470. g			
GK Aqr													
HL Aqr													
ST Aqr													
2 Lac	4.73 s	3.76 s								158. s			
BD +54°2745	18.20 s	7.15 pi								3000. s			
BB Peg													
GP Aqr													
AY Aqr													
BD +53°2885	12.02 s	1.17 pi								4970. s			
BD +55°2756	12.88 s	2.40 pi								3520. s			
del Cep C													
BS Cep	0.89 p	0.74 p								448. p			
V350 Lac	1.95 s	1.04 pi											

Name	M1	M2	A	R1	R2	T1	T2	log L1	log L2	Distance	U	V	W
BD +54°2790	21.88 s	9.22 pi								3430. s			
GX Peg	1.82 s	1.06 pi								62.8 s			
KY Cep	0.30 s	0.00								19.7 p			
XZ Cep	17.36	13.68											
EE Aqr	2.20	0.71											
CX Aqr	1.20	0.66											
DI Lac													
HR 8606	7.59 s	5.23								426. s			
CQ Cep	12.70	15.67								3470. g			
FK Aqr	0.56 s	0.45 s								9.17 pi			
RV Gru													
HD 214652	9.77 s	3.14								654. s			
GZ Aqr													
PP Lac													
BC Gru													
ZZ Cep	4.11	1.91											
RZ Gru	0.89 p	0.61 s											
DH Cep	51.89	42.25								3640. s			
BD +57°2611	15.85 s	3.66 pi								2690. s			
AH Cep	15.51	13.66											
TY PsA	0.46	0.198 p								211. k			
V360 Lac	7.59 s	0.65								292. s			
GD 552													
GS Cep													
IM Peg	4.17 s	2.09 pi								164. s			
HI Aqr	3.09 s	2.56								208. s			
IL Cep													
SW Lac	0.78	0.96											
HD 216711	12.88 s	3.18 pi								910. s			
AO Psc													
TW PsA													
EN Lac													
HD 217061	12.88 s	12.88 s								953. s			
GT Cep	8.67	2.95											
NY Cep	13.15	9.32											

RA 22h

Name	M1	M2	A	R1	R2	T1	T2	log L1	log L2	Distance	U	V	W
TZ PsA													
HD 217463	11.22 s	0.75 pi											
BD +62°2155	9.77 s	3.55 pi								789. s			
omi And B										1000. s			

Name	Notes
HD 209943	*Pphot=1.166d
LZ Cep	del m=0.48
32 Aqr	
FS Aqr	EW/KW
V365 Lac	
iot Peg	
UU Aqr	(B-V)min=-0.1; (U-B)min=-0.7
AR Lac	del m=0.17B; (B-V)I,II= +0.83,+0.71; *Pphtm~Porb
RW PsA	
CX Cep	
HD 210737	
HR 8467	
AT Peg	
RU Peg	Dist. from CPM comp.
HD 211433	
BD +54°2726	
BD +53°2837	
FO Aqr	Eclipses of near side of disk?
AW Lac	
CW Aqr	
GP Cep	
HD 211853B	
GK Aqr	EW/KW
HL Aqr	UX
ST Aqr	
2 Lac	del m=1.03
BD +54°2745	
BB Peg	*+2.3x10-11 E2; qsp=0.34
GP Aqr	R:+E:
AY Aqr	
BD +53°2885	
BD +55°2756	
del Cep C	P=0.46458d, K1=8.8 also possible
BS Cep	UGZ:
V350 Lac	Ell (6.34-6.47 V)

Name	Notes
BD +54°2790	
GX Peg	del Sct (6.30-6.32v); U=260y?
KY Cep	*
XZ Cep	
EE Aqr	
CX Aqr	
DI Lac	t3=43d
HR 8606	del m=2.74
CQ Cep	del m=0.40 V; t3=0.10 V
FK Aqr	Pphtm=4.39d
RV Gru	G8(V), i=65.1, r1=0.457, r2=0.306, l1=0.691 V, qph=0.413 (lc: Hoffmeister, C. 1956, Veröff. Sternw. Sonneberg, 3, 1)
HD 214652	
GZ Aqr	EW:/KW:
PP Lac	
BC Gru	RRc?; [K2V]+[K2V], i=69.9, r1=0.541, r2=0.235, l1=0.841 p, qph=0.157 (Meinunger, I. 1979, Veröff. Sternw. Sonneberg, 9, 105)
ZZ Cep	
RZ Gru	
DH Cep	del m=0.28; U=2.6y
BD +57°2611	
AH Cep	del m=0.27
TY PsA	UGSU
V360 Lac	
GD 552	
GS Cep	Earlier P incorrect.
IM Peg	Amp=0.16V; *Pphtm=24.39d
HI Aqr	algCVn
IL Cep	*Porb=1.401d?; B2IV-Vne+(B2V), i=79.8, r1=0.242, r2=0.210, l1=0.569 (lc: Hill, G. 1967, ApJ Suppl., 14, 301)
SW Lac	del m=0.3; (B-V)I=+0.80
HD 216711	
AO Psc	
TW PsA	BY
EN Lac	betC (5.3-5.41 p); EA (Amp 0.04V)
HD 217061	
GT Cep	
NY Cep	del m=1.0 B

Name	Notes
TZ PsA	RS; *Pphtm=1.648d
HD 217463	
BD +62°2155	
omi And B	Comp A: gamC (3.5-3.65V); AB: Porb~25.9y (Horn, et al. 1982, IAU Symp. 98, p. 315)

Name	RA(1950)	μ(RA)	Dec(1950)	μ(Dec)	Pos Ref	FK4	SRS	AGK3	SAO	GC	l	b
NN Cep	23 00 04.241	0.00	+62 14 34.90	+0.1	AGK3			+62°1392	020381		110.68	+02.27
HD 217919	23 01 01.330	-0.04	+63 25 43.62	+0.7	AGK3			+63°1297	020390		111.27	+03.31
V425 Cas	23 01 34.91		+53 01 04.5		McN86						107.14	-06.25
CW Cep	23 02 01.066	+0.01	+63 07 37.84	0.0	AGK3			+63°1300	020401		111.25	+02.99
AK Gru	23 02 12.12		-44 12 21.1		AC						347.81	-62.80
HD 218154	23 03 02.596	0.00	+24 22 58.66	+0.8	AGK3			+24°2490	090999	32169	094.29	-32.26
AA And	23 03 06.84		+47 25 01.2								105.08	-11.48
PSR 2303+46	23 03 39.17		+46 51 31.8								104.93	-12.02
BD And	23 04 50.18		+50 14 16.4		PI77						106.66	-08.59
KX And	23 04 51.062	+0.11	+49 55 18.26	+0.6	AGK3			+49°2062	052701	32204	106.36	-09.29
HR 8800	23 05 00.316	-0.08	+45 47 51.23	+0.6	AGK3			+45°2112	052707	32208	104.71	-13.09
HR 8803	23 05 03.149	-0.18	+59 27 24.27	+0.4	AGK3			+59°1575		32210	110.13	-00.53
iot Gru	23 07 32.182	+1.301	-45 31 04.35	-2.10	FK4	1605	31605		231468	32270	344.27	-62.93
KZ And	23 07 39.187	+1.55	+47 41 13.25	+0.8	AGK3			+47°2021	052753	32275	105.90	-11.53
RT And	23 08 55.444	-0.02	+52 45 15.93	-0.7	AGK3			+52°1726			108.06	-06.92
AB And	23 09 08.593	+0.84	+36 37 19.07	-6.7	AGK3			+36°2371	073069		101.60	-21.81
SZ Psc	23 10 50.577	+0.24	+02 24 09.70	-0.3	Per70		17913	+2°2918	128041		080.65	-51.96
V649 Cas	23 14 17.395	+0.15	+61 41 23.90	+1.1	AGK3			+61°1427	020531	32403	112.02	+01.12
EZ Peg	23 14 26.026	-0.42	+25 26 46.28	+1.8	AGK3			+25°2781	091141		097.59	-32.46
AN And	23 16 00.611	+0.02	+41 30 01.40	0.0	AGK3			+41°2289	052881	32447	104.91	-17.82
HD 220057	23 17 48.400	-0.04	+60 52 33.72	+1.0	AGK3			+60°1552	020562	32492	112.13	+00.21
V368 Cep	23 17 50.188	+6.55	+78 43 43.62	+8.6	AGK3			+78°0558	010697	32493	118.46	+16.94
WZ Cep	23 20 26.39	+0.64	+72 38 30.6	-4.9	(PI77)						116.42	+11.18
IP Peg	23 20 39.47		+18 08 42.0								095.34	-39.68
HR 8899	23 21 19.723	+1.91	+32 15 22.09	+4.4	AGK3			+32°2319	073223	32557	102.29	-26.80
EG Aqr	23 22 44.		-08 35 00.		GCVS						071.65	-62.26
LO And	23 24 42.935		+45 16 50.44		AC						107.83	-14.83
VZ Psc	23 25 12.66	+2.28	+04 34 34.6	+16.6	AC						087.49	-52.16
ZZ Psc	23 26 15.94	-3.035	+04 58 34.6	-26.71	(AC)						088.18	-51.96
VY Scl	23 26 21.5	0.0	-30 03 17.	0.	( )						019.73	-71.72
DX And	23 27 21.710		+43 28 31.93		BFW87						107.68	-16.70
AR Cas	23 27 42.766	+0.13	+58 16 23.18	+0.7	AGK3			+58°1562	035478	32683	112.47	-02.66
HD 221264A	23 27 57.591	+0.71	+30 33 22.27	-3.4	AGK3			+30°2640	073306	32687	103.09	-28.90
DI Peg	23 29 43.239	-0.37	+14 41 35.02	+0.1	AGK3			+14°2617	108667		096.01	-43.72
lam And	23 35 06.520	+1.544	+46 11 13.83	-41.58	FK4	890		+46°2169	053204	32832	109.90	-14.53

Name	RA(1950)	μ(RA)	Dec(1950)	μ(Dec)	Pos Ref	FK4	SRS	AGK3	SAO	GC	l	b
KS Peg	23 35 25.105	+0.361	+18 07 24.38	+1.69	FK4Sup	3896	45040	+18°2390	108732	32842	099.54	-41.11
KT Peg	23 36 59.446	+2.41	+27 57 58.55	+23.5	AGK3			+27°2774	091405	32868	104.22	-32.00
HX Peg	23 37 51.8		+12 21 02.		PG						097.22	-46.67
QQ Cas	23 43 10.92		+59 37 42.6		PI77						114.76	-01.92
EL Aqr	23 44 44.16		-08 21 45.3								081.39	-65.65
V651 Cas	23 46 05.315		+57 28 15.71		AC						114.62	-04.10
V630 Cas	23 46 22.67		+51 10 59.0		D87						113.11	-10.22
VZ Scl	23 47 33.73	+0.13	-26 39 33.1	+0.7	( )						032.57	-76.31
UU Cas	23 48 11.28		+60 37 57.8		PI77						115.61	-01.09
BC Cas	23 48 48.71		+60 01 29.2		D87						115.54	-01.70
HR 9038	23 49 57.039	+7.94	+75 15 57.16	+5.6	AGK3			+75°1020	010879	33120	119.18	+13.10
II Peg	23 52 29.081	+4.53	+28 21 17.88	+4.1	AGK3			+28°2842	091578	33168	108.22	-32.62
AL Scl	23 52 41.682	+0.245	-32 11 59.56	+0.02	FK4Sup	3921	45090		214860	33175	008.14	-76.89
V373 Cas	23 53 02.700	+0.01	+57 08 02.20	+2.1	AGK3			+57°1713	035899	33184	115.44	-04.64
HR 9059	23 54 36.576	-0.28	+55 25 39.25	-0.7	AGK3			+55°1723	035917	33214	115.29	-06.36
V375 Cas	23 54 37.99		+62 43 40.0		PI77						116.82	+00.78
U Peg	23 55 25.150	-0.41	+15 40 30.80	-3.2	AGK3			+15°2660	108933		104.60	-45.01
QX Cas	23 56 10.880		+60 52 58.18		AC						116.59	-01.06
LQ And	23 56 13.367	-0.02	+46 08 05.56	+1.9	AGK3			+46°2225	053540	33252	113.55	-15.50
ome Psc	23 56 44.494	+1.019	+06 35 11.41	-10.94	FK4	902	30902		128513	33262	100.69	-53.74

Name	Bayer	Flmstd	HR	HD	BD	CoD	CPD	Var	Other
NN Cep				217796	+61°2384			NN Cep	BV 386; CSV 8815
HD 217919				217919	+62°2161				LS III +63°18
V425 Cas								V425 Cas	S 9712
CW Cep				218066	+62°2163			CW Cep	LS III +63°20
AK Gru								AK Gru	S 6520
HD 218154				218154	+23°4675				
AA And					+46°3929			AA And	7.1927
PSR 2303+46									PSR 2303+46
BD And								BD And	462.1937; SVS 830
KX And				218393	+49°4045			KX And	MWC 397
HR 8800			8800	218407	+45°4147				
HR 8803			8803	218440	+58°2546				
iot Gru	iot Gru		8820	218670		-45°14947	-45°10393		90G Gru
KZ And				218738	+47°4058			KZ And	X2307+476 (1ES)
RT And					+52°3383a			RT And	79.1901
AB And					+36°5017			AB And	8.1927
SZ Psc				219113	+1°4695			SZ Psc	35.1934; INCA 1263
V649 Cas			8854	219634	+61°2413			V649 Cas	LS III +61°22
EZ Peg					+24°4742			EZ Peg	
AN And		9 And	8864	219815	+40°5043			AN And	
HD 220057				220057	+60°2521				NSV 14513
V368 Cep				220140	+78°0826			V368 Cep	X2317+787 (1ES,H)
WZ Cep								WZ Cep	244.1928
IP Peg								IP Peg	SVS 2549
HR 8899			8899	220460	+31°4901				
EG Aqr								EG Aqr	PHL 505
LO And								LO And	CSV 8853; NSV 14569; Wr 136
VZ Psc					+4°5012			VZ Psc	G 29-37; LTT 16900
ZZ Psc								ZZ Psc	EG 159; GI 895.2; G 29-38; LTT 16907; PG
VY Scl								VY Scl	CSV 8857; GD 1662; PHL 538
DX And								DX And	GR 17
AR Cas			8926	221253	+57°2748			AR Cas	1H Cas; Zi 2144
HD 221264A				221264 A	+30°4963				
DI Peg					+14°5006			DI Peg	114.1934
lam And	lam And	16 And	8961	222107	+45°4283			lam And	7H And; AFGL 3122; INCA 1265; IRC +50

Name	Bayer	Flmstd	HR	HD	BD	CoD	CPD	Var	Other
KS Peg	s Peg	75 Peg	8963	222133	+17°4952			KS Peg	
KT Peg				222317	+27°4588			KT Peg	
HX Peg								HX Peg	PG 2337+123
QQ Cas					+59°2765			QQ Cas	BV 73; LS I +59°15
EL Aqr					-8°6189			EL Aqr	261.1932; CSV 5790; P 2413
V651 Cas								V651 Cas	BV 326; CSV 8883; NSV 14717
V630 Cas								V630 Cas	OV 29
VZ Scl								VZ Scl	Ton S120
UU Cas								UU Cas	10.1913; LS I +60°42
BC Cas					+60°2629			BC Cas	345.1931; N Cas 1929; SVS 254
HR 9038			9038	223778	+74°1047				GI 909A
II Peg				224085	+27°4642			II Peg	INCA 1272; RE 235503+283806; X2352+28
AL Scl			9049	224113		-32°17723	-32°06688	AL Scl	34G Scl; CSV 102291; Zi 2164
V373 Cas			9052	224151	+56°3115			V373 Cas	CSV 5810; LS I +57°1; P 5803
HR 9059			9059	224355	+54°3076				CSV 103136; NSV 14773
V375 Cas					+62°2332			V375 Cas	LS I +62°50; Wr 9
U Peg					+15°4915			U Peg	
QX Cas								QX Cas	CSV 5816; SVS 969
LQ And			9070	224559	+45°4381			LQ And	CSV 8901; NSV 14788
ome Psc	ome Psc	28 Psc	9072	224617	+6°5227				9H Psc; 56G Psc; IRC +10545; NSV 14793

Name	Sp1	Sp2	T-JD 2400000	P	e	ome1	V0	K1	K2	v1 sin i	v2 sin i
NN Cep	F1V		44507.4033	2.058305							
HD 217919	B0.5IIIpHew	[B5V]	40486.698	17.04	0.281	315.0	-30.8	42.2		265	
V425 Cas				0.1496	0	-	-	50.		386 Sh	
CW Cep	B0.5IV-V	B0.5IV-V	41670.3916	2.7291384	0.0293 phi	201.2 phi	-12.	210	235	140	135
AK Gru	[F8]	(G9IV)	36732.607	0.49389							
HD 218154	A0V:	[G9V]	22920.050	2.177853	0.026	82	+2.3	54.0			
AA And	B8V	A5	47804.6739	0.93509705							
PSR 2303+46	PSR	(ns)	46108.05042	12.339541	0.65838	35.040	-	76.7300			
BD And	F8	(G6.5IV)	34962.400	0.4629023							
KX And	B3eq	(K1III)	23219.688	38.919	0.496	11.6	-2.36	42.6		>=200.	
HR 8800	B2V	B(6V)-A	38956.898	3.337790	0.221	222.3	-16.2	90.0		150	
HR 8803	B2V	(B6V)	21825.038	7.25105	0.376	71.6	-4.6	87.9	146.7		
iot Gru	K1III		16115.569	409.614	0.656	240.76	-4.17	13.62			
KZ And	K2V	K2V	42370.722	3.032867	0.034	339	-6.85	67.6	71.2	12.3*	11.6
RT And	F8V	G7V	45977.0997	0.62892984	0.026 phi	276. phi	-1.4	131.4	168.4		109:*
AB And	G5V	G5V	44913.3534	0.3318922	0	-	-24.6	235.7	115.7		
SZ Psc	K1IV-V	F8V	42309.1607	3.965452225	0	-	+12.	82.	104	65.*	18
V649 Cas	B0Vn		43335.543	2.391253	0	-	-26.4	87.3	248.3		
EZ Peg	G5Ve	K0(IV)	45736.66	11.6598	0	-	-27.24	24.50	24.29		
AN And	A7III-IVm	(F4III)	36095.726	3.2195665	0	-	-7.6	70.3		78	
HD 220057	B3IVn	B3Vn	45270.006	4.41508	0.545	61.6	-21.6	138.8	144.9		
V368 Cep	K2V			2.76						13	
WZ Cep	F5V		44989.5344	0.4174471							
IP Peg	sdBe	M4V	45615.4253375*	0.158204988	0	-	+31.	118.	298.	511 e	
HR 8899	F4Vw	[F4V]	40544.519	6.0499	0.014	292	+12.55	48.2	49.8		
EG Aqr	K			[0.108]							
LO And	[F5]	(F3)	44081.5580	0.380852							
VZ Psc	K0V	(K4V)	46710.8659	0.26125897	0	-	-4.3	124.8	135.7		
ZZ Psc	DAV4		47472.2	109.	0.65	77.30	-	28.		<=40.	
VY Scl	sdBe		45654.684	0.1662?	0	-	+38.	57.			
DX And	sdBe	dK	47881.382	0.465?							
AR Cas	B3IV-V	(A0V)	40475.4439	6.0663309	0.245	31.4	-13.4	56.7		124	
HD 221264A	F6V	F9V	47557.51	1.918058	0.043	347	-27.3	61.1	69.9	22	18
DI Peg	F4IV		45196.488	0.7118168	0	-	+43.8	109.0	185.2		
lam And	G8III-IV	[M5V]	29202.389	20.5212	0.040	313.6	+6.84	6.64		10.*	

Name	Sp1	Sp2	T-JD 2400000	P	e	ome1	V0	K1	K2	v1 sin i	v2 sin i
KS Peg	A1Vn		42644.257	0.5021035	0.0	-	-3.0	26.9		205	
KT Peg	G2V	K V	39842.702	6.20197	0.019	168	-2.05	41.3	61	7	*
HX Peg	sdBe			[0.182]							
QQ Cas	B2(V)	(B2.5)	42009.407	2.142043							
EL Aqr	F0		39486.642	0.48141:							
V651 Cas	G5V	G8-K0	48205.6322	0.9968096	0	-	-30.	121.	129		
V630 Cas	sdBe	K7-M0V		0.42?							
VZ Scl	sdBe		41209.8175	0.14462220	0	-	+125.	275.		900 e	
UU Cas	B0.5III	(B1.5III)	28751.72	8.51929	0	-	-56.	161.			
BC Cas				0.10?							
HR 9038	K3V	K3V	20005.141	7.75310	0	-	+1.68	39.88	49.70		
II Peg	K2IV-Ve	[M1V]	43030.239	6.724183	0.033	286	-18.1	36.8		21.*	
AL Scl	B6V	A0V	43698.7000	2.445083	0.074	121.8	-2.5	87.3	185.4	199	
V373 Cas	B0.5II	B4III	20801.98	13.41921	0.126	16	-24.5	106.7	144.6	140	50
HR 9059	dF3	dF3	39327.11	12.156153	0.312	216.7	+10.3	71.75	72.6		
V375 Cas	B3		45635.1514	1.47338191							
U Peg	G2V	G0V	36511.66823	0.374781439	0	-	-29.85	83.0	250.5		
QX Cas	B1V	B1V	35755.000	6.00471							
LQ And	B4Ven		47395.17	7.41324	0.37	332.5	-0.86	11.7		280	
ome Psc	F4IV			2.158	0.35	185	-6.0	6.5		38	

Name	Spectroscopic orbit
NN Cep	
HD 217919	Garmany, C.D. 1972, AJ, 77, 38
V425 Cas	Shafter, A.W. 1983, Ph.D. Thesis, UCLA
CW Cep	Popper, D.M., Hill, G. 1991, AJ, 101, 600
AK Gru	
HD 218154	Thomson, J., Bolton, C.T. 1977, JRASC, 71, 259
AA And	
PSR 2303+46	Taylor, J.H., Dewey, R.J. 1988, ApJ, 332, 770
BD And	
KX And	Stefl, S., Harmanec, P., Horn, J., Koubsky, P., Kriz, S., Hadrava, P., Bozic, H., Pavlovski, K. 1990, BAC, 41, 29
HR 8800	van Albada, T.S., Klomp, M. 1969, BAN, 20, 208
HR 8803	Pearce, J.A. 1932, Pub. DAO, 6, 49
iot Gru	Jones, H.S. 1928, Ann. Cape Obs., 10, pt. 8, 89
KZ And	Bopp, B.W., Fekel, F. 1975, PASP, 87, 891
RT And	Wang, X.-M., Lu, W.-X. 1990, Pacific Rim Colloquium on New Frontiers in Binary Star Research
AB And	Hrivnak, B.J. 1988, ApJ, 335, 319
SZ Psc	Popper, D.M. 1988, AJ, 96, 1040
V649 Cas	Gulliver, A.F., Hube, D.P., Hill, G. 1985, Astr. Ap., 151, 254
EZ Peg	Griffin, R.F. 1985, Obs., 105, 81
AN And	Kitamura, M., Nakamura, Y., Yamasaki, A. 1983, Ann. Tokyo Obs., (2), 19, 361
HD 220057	Gies, D.R., Bolton, C.T. 1986, ApJ Suppl., 61, 419
V368 Cep	
WZ Cep	
IP Peg	Hessman, F.V. 1989, AJ, 98, 675; Martin, J.S., Friend, M.T., Smith, R.C., Jones, D.H.P. 1989, MN, 240, 519
HR 8899	Abt, H.A., Lee, P.D., Perry, C.L. 1970, PASP, 82, 716
EG Aqr	
LO And	
VZ Psc	Hrivnak, B.J., Milone, E.F. 1989, AJ, 97, 532
ZZ Psc	Winget, D.E., et al. 1990, ApJ, 357, 630
VY Scl	Hutchings, J.B., Cowley, A.P. 1984, PASP, 96, 559
DX And	
AR Cas	Gorza, W.L., Heard, J.F. 1971, Pub. DDO, 3, 99
HD 221264A	Willmitch, T.R., Fekel, F.C. 1990, AJ, 99, 373
DI Peg	Lu, W. 1991, JRASC, 85, 214
lam And	Walker, E.C. 1944, JRASC, 38, 249

Name	Spectroscopic orbit
KS Peg	Hube, D.P., Gulliver, A.F. 1985, PASP, 97, 280
KT Peg	Imbert, M. 1969, AAp, 3, 272; Fekel, F.C., Jr. 1988, unpubl. (see Strassmeier, K.G., et al. 1988, AAp Suppl., 72, 291)
HX Peg	
QQ Cas	
EL Aqr	
V651 Cas	Lu, W. 1986, IBVS 2868
V630 Cas	
VZ Scl	Warner, B., Thackeray, A.D. 1975, MN, 172, 433
UU Cas	Sanford, R.F. 1933, ApJ, 79, 84
BC Cas	
HR 9038	Christie, W.H. 1934, ApJ, 80, 181
II Peg	Vogt, S.S. 1981, ApJ, 247, 975
AL Scl	Haefner, R., Skillen, I., de Groot, M. 1987, Astr. Ap., 179, 141
V373 Cas	Hill, G., Fisher, W.A. 1987, Astr. Ap., 171, 123
HR 9059	Imbert, M. 1977, AAp Suppl., 29, 407
V375 Cas	
U Peg	Zhai, D.-S., Lu, W.-X. 1988, AA Sin, 29, 9 (1988, Chin AAp, 12, 223)
QX Cas	
LQ And	Matthews, J.M., Harmanec, P., Walker, G.A.H., Yang, S., Wehlau, W.H. 1991, MN, 248, 787
ome Psc	Beardsley, W.R. 1965, AJ, 70, 319

Name	V	B-V	U-B	R-I	E(B-V)	par	Cluster	ADS	Vis Binary	Companions
NN Cep	8.10							16466 A	Es 1861 A	
HD 217919	8.27	+0.63	-0.28		0.95		Cep OB3			
V425 Cas	15.3	+0.18	-0.85		0.0 u					
CW Cep	7.59	+0.39	-0.53		0.67		Cep OB3			12.29V, 20"
AK Gru	11.0 p									
HD 218154	7.01				0.04 m					
AA And	10.3 p									
PSR 2303+46										
BD And	11.3 p									
KX And	6.92	+0.33	-0.46							
HR 8800	6.66	-0.05	-0.68		0.18		Lac OB1			
HR 8803	6.40	-0.01	-0.63		0.24		(Cas OB2)			
iot Gru	3.90	+1.02	+0.86	+0.53		0.030				
KZ And	7.98	+0.893	+0.55		0.00			16557 B	Sig 2985 B	6.6, G5, 15.4"
RT And	8.55	+0.50			0.00					
AB And	9.50	+0.90	+0.53		0.02					
SZ Psc	7.22	+0.83	+0.32	+0.51		0.010; R0.0100				
V649 Cas	6.53	+0.23	-0.66				(Cas OB2)			
EZ Peg	9.64	+0.82	+0.27							
AN And	5.97	+0.21	+0.16		0.08 m					
HD 220057	6.93	+0.03	-0.58		0.21		(Cas OB2)			
V368 Cep	7.54	+0.87	+0.39			0.021				
WZ Cep	11.4 p									
IP Peg	11.8 v				0.0 u					
HR 8899	6.69	+0.45	-0.12		0.04	0.012	(61 Cyg)			
EG Aqr	14.0 p				0.10 m					
LO And	11.20									
VZ Psc	10.20	+1.12	+0.94							
ZZ Psc	13.06	+0.17	-0.64	+0.02C		0.0735				
VY Scl	13.16	-0.05	-0.94		0.0 u					
DX And	11.2 v				0.20 u					
AR Cas	4.82	-0.12	-0.64	-0.14		D0.006	Cas-Tau OB1	16795 A	OSig 496 A; BDS 1	9.3V, 1.0"; 8.2, A0Vn, 75"; 9.8, 76";
HD 221264A	7.99	+0.50 D	+0.02 D			-0.008		16800 A	bet 1266 A (orb); Si	8.07V, F7V+F8V, 0.25"; 9.89V, +0
DI Peg	9.40	+0.50	+0.07							
lam And	3.82	+1.01	+0.69	+0.57	0.12	0.0435			bet pm A	10.3, 217.6"

Name	V	B-V	U-B	R-I	E(B-V)	par	Cluster	ADS	Vis Binary	Companions
KS Peg	5.40	-0.03	+0.05		0.00				Kui 117 A	11.6, 27.9"
KT Peg	7.04	+0.67	+0.16							
HX Peg	12.90				0.04 m					
QQ Cas	10.23	+0.73	-0.36				Cas OB9			
EL Aqr	10.36	+0.42	-0.05							
V651 Cas	10.5 p									
V630 Cas	12.3 p				0.17 m					
VZ Scl	15.6	+0.1	-0.8		0.0 u					
UU Cas	10.19 p					0.006	Cas OB5?			
BC Cas	17.4 p									
HR 9038	6.39	+0.98	+0.71	+0.38		0.097		17062 A	bet 996 A	12.5v, M, 2.5"
II Peg	7.406	+1.016	+0.730	+0.50		0.0385; R0.0362				
AL Scl	6.10	-0.08	-0.46		0.04		Blanco			
V373 Cas	6.00	+0.21	-0.72		0.43	0.029	Cas OB9			
HR 9059	5.55	+0.49	+0.03		0.11					
V375 Cas	9.94	+0.25								
U Peg	9.23	+0.64	+0.12			-0.030				
QX Cas	10.19	+0.28	-0.62				NGC 7790?			13.1v, 3"
LQ And	6.54	-0.09	-0.61				Cas-Tau OB1			
ome Psc	4.01	+0.42	+0.06	+0.24		0.018				

Name	Vbl type	Min I	Min II	D	d	i	r1	r2	l1	qph
NN Cep	EA/DM	8.58	8.52	0.12		80.35	0.173	0.323	0.240 V	1.39
HD 217919						54.97 pi				
V425 Cas	NL	18.								
CW Cep	EA/DM	7.99	7.98			82.5	0.235	0.214	0.3946 y	
AK Gru	EW/KW	11.5 p		0.2		75.5	0.40	0.30	0.89 p	0.43
HD 218154						53.83 pi				
AA And	EA/KE:	10.9 p	10.5 p	0.21		90.	0.454	0.229	0.985 v	
PSR 2303+46										
BD And	EB/KW	11.7 p	11.4 p			74.	0.413	0.313	0.85 p	0.50
KX And	GCAS									
HR 8800						60.78 s			0.86 s	
HR 8803						52.28 s			0.878 s	
iot Gru										
KZ And	BY					53.98 s	0.088 ome	0.083 ome		
RT And	EA/DW/RS	9.47	8.88	0.17; 0.17	0.00; 0.00	88.4	0.315	0.227	0.895 V	
AB And	EW/KW	10.32	10.20			86.8	0.327	0.451	0.411 V	
SZ Psc	EA/DS/RS	7.67	7.28	0.11	0.00	76.2	0.324	0.104	0.715 y	
V649 Cas	EA/DM	6.65	6.62			71.282	0.2036	0.2109	0.5942 bol*	(0.3509)
EZ Peg	NL:									
AN And	EB/DM	6.16 p	6.09 p			65.	0.309	0.258	0.76 V	
HD 220057	-					48.79 s				
V368 Cep	RS	(0.04 B)								
WZ Cep	EW/KW	(0.70)	(0.40)			85.3	0.489	0.300	0.8457 bol	0.333
IP Peg	UG+E	18.5 B		[0.0858]	0.024	79.4				
HR 8899						38.20 s				
EG Aqr	UG	18.5 p				57.63 pi				
LO And	EW/KW	11.82	11.82			73.5	0.442	0.280	0.70 V	0.49
VZ Psc	EW/KW	10.45	10.43			49.9	0.381	0.3705	0.565*	
ZZ Psc	ZZA									
VY Scl	NL	18.5 p				21.68 p				
DX And	UGSS	16.4 p								
AR Cas	EA/DM	4.96	4.86	0.061; 0.076	; 0.037	86.0	0.185	0.0595	0.96 V	
HD 221264A							0.17 ome	0.14 ome	0.65 V s	
DI Peg	EA/SD	10.48	9.59	0.21		85.19	0.354	0.284	0.908 V	0.4698
Iam And	RS					54.26 pi				

Name	Vbl type	Min I	Min II	D	d	i	r1	r2	l1	qph
KS Peg	EB/KE					61.52	0.5727	0.1122:	0.9956 bol	0.1040
KT Peg	RS						0.07 ome			
HX Peg	NL	16.62				57.63 pi				
QQ Cas	EB/DM	(0.6 p)	(0.5 p)			87.	0.285	0.271	0.56 p	0.93
EL Aqr	EW/KW	10.71	10.71							
V651 Cas	EW/KW	(0.80 V)	(0.31 V)	0.11						
V630 Cas	UG:	17.1 p				57.63 pi				
VZ Scl	EA+NL			[0.069]						
UU Cas	EB/DM	10.54 p	10.38 p			55.0	0.38	0.38	0.80 p	
BC Cas	N									
HR 9038									0.52 s	
II Peg	RS					67.				
AL Scl	EA/DM	6.32	6.19	0.09; 0.08		80.3	0.243	0.105	0.9176 y	
V373 Cas	E:/GS	6.10				71.96 se	0.513 ome	0.183 ome	0.66 s	
HR 9059	E:					85.25 se			0.53 s	
V375 Cas	EB/KE	10.64	10.42			80.53	0.3971	0.3346	0.6848 V	0.608
U Peg	EW/KW	9.80	9.73			75.964	0.4880	0.2976	0.6812	0.33128
QX Cas	EA/DM	10.70	10.50	0.089; 0.047	0.018	85.5	0.162	0.125	0.71 V	0.68
LQ And	BCEP:									
ome Psc	-									

Name	Photometric solution
NN Cep	Güdür, N., Gülmen, Ö., Sezer, C., Sengonca, H. 1983, AAp Suppl., 51, 27
HD 217919	
V425 Cas	
CW Cep	Clausen, J.V., Giménez, A. 1991, AAp, 241, 98
AK Gru	Svechnikov, M.A., Kuznetsova, E.F. 1990, Katalog Priblizhennykh Fotometricheskikh i Absolyutnykh Elementov Zatmennykh Peremennykh Zvez
HD 218154	
AA And	Wood, F.B. 1951, Contr. Princeton U. Obs., 25, 9
PSR 2303+46	Lyne, A.G., Bailes, M. 1990, MN, 246, 15P
BD And	Svechnikov, M.A., Kuznetsova, E.F. 1990, Katalog Priblizhennykh Fotometricheskikh i Absolyutnykh Elementov Zatmennykh Peremennykh Zvez
KX And	
HR 8800	
HR 8803	
iot Gru	
KZ And	
RT And	Zeilik, M., Cox, D.A., De Blasi, C., Rhodes, M., Budding, E. 1989, ApJ, 345, 991
AB And	Hrivnak, B.J. 1988, ApJ, 335, 319
SZ Psc	Tunca, Z. 1984, ApSpSci, 105, 23
V649 Cas	Martin, B.E., Hube, D.P., Lyder, D.A. 1990, PASP 102, 1375
EZ Peg	
AN And	Kitamura, M., Nakamura, Y., Yamasaki, A. 1983, Ann. Tokyo Obs., (2), 19, 361
HD 220057	
V368 Cep	
WZ Cep	Kaluzny, J. 1986, AA, 36, 105
IP Peg	Marsh, T.R. 1988, MN, 231, 1117
HR 8899	
EG Aqr	
LO And	Svechnikov, M.A., Kuznetsova, E.F. 1990, Katalog Priblizhennykh Fotometricheskikh i Absolyutnykh Elementov Zatmennykh Peremennykh Zvez
VZ Psc	Maceroni, C., Van Hamme, W., van't Veer, F. 1990, AAp, 234, 177
ZZ Psc	
VY Scl	
DX And	
AR Cas	Lavrov, M.I., Kushanova, F.Z. 1982, unpubl. (in Svechnikov, M.A. 1986, Cat. Orb. El., Masses, etc. ...)
HD 221264A	
DI Peg	Wilson, R.E., Rafert, J.B. 1980, AAp Suppl., 42, 195
lam And	

Name	Photometric solution
KS Peg	Martin, B., Hube, D.P., Brown, C. 1991, PASP, 103, 424
KT Peg	
HX Peg	
QQ Cas	Svechnikov, M.A., Kuznetsova, E.F. 1990, Katalog Priblizhennykh Fotometricheskikh i Absolyutnykh Elementov Zatmennykh Peremennykh Zvez
EL Aqr	(Stepién, K. 1968, PASP, 80, 220)
V651 Cas	(Agerer, F., Lichtenknecker, D. 1991, IBVS 3554)
V630 Cas	
VZ Scl	(Sherrington, M.R., Bailey, J., Jameson, R.F. 1984, MN, 206, 859)
UU Cas	Parenago, P.P., Kukarkin, B.V. 1940, Perem. Zvezdy, 5, 287
BC Cas	
HR 9038	
II Peg	Kjurkchieva, D.P. 1989, ApSpSci, 155, 125
AL Scl	Haefner, R., Skillen, I., de Groot, M. 1987, Astr. Ap., 179, 141
V373 Cas	(Lynds, C.R. 1959, ApJ, 130, 599)
HR 9059	
V375 Cas	Zhang, R.-X., Zhang, J.-T., Li, Q.-S., Zhai, D.-S. 1986, AAp Sin., 6, 185 (Chin. AAp, 10, 265)
U Peg	Zhai, D.-S., Lu, W.-X. 1988, AA Sin, 29, 9 (1988, Chin AAp, 12, 223)
QX Cas	Svechnikov, M.A., Kuznetsova, E.F. 1990, Katalog Priblizhennykh Fotometricheskikh i Absolyutnykh Elementov Zatmennykh Peremennykh Zvez
LQ And	
ome Psc	

Name	M1	M2	A	R1	R2	T1	T2	log L1	log L2	Distance	U	V	W
NN Cep													
HD 217919	20.65 s	5.24 pi											
V425 Cas										1030. s			
CW Cep	13.49	12.05											
AK Gru													
HD 218154	2.24 s	0.87 pi											
AA And										165. s			
PSR 2303+46													
BD And													
KX And													
HR 8800	9.77 s	4.07 del											
HR 8803	9.77 s	5.86								563. s			
iot Gru										462. s			
KZ And	0.82 s	0.77 s											
RT And	0.99	0.77								30.9 ome			
AB And	0.49	1.01											
SZ Psc	1.61	1.27											
V649 Cas	8.16	2.87											
EZ Peg													
AN And	1.91 s	1.13											
HD 220057	7.40 s	7.09 s								155. phi			
V368 Cep										650. s			
WZ Cep													
IP Peg	0.89	0.35											
HR 8899	1.27 s	1.23 s											
EG Aqr	0.71 p	0.28 p								59.6 s			
LO And										591. p			
VZ Psc	0.56	0.51											
ZZ Psc													
VY Scl	0.89 p	0.49 p											
DX And													
AR Cas	7.24 s												
HD 221264A													
DI Peg	1.19	0.70											
Iam And	1.78 s	0.164 pi								19.7 spi			

Name	M1	M2	A	R1	R2	T1	T2	log L1	log L2	Distance	U	V	W
KS Peg	1.62	0.168											
KT Peg	1.00 s												
HX Peg	0.89 p	0.55 p											
QQ Cas										450. p			
EL Aqr													
V651 Cas													
V630 Cas	0.71 p	0.28 p											
VZ Scl										238. p			
UU Cas													
BC Cas													
HR 9038													
II Peg	1.04 s												
AL Scl	3.62	1.70											
V373 Cas	14.45 s	10.66 s								222. phi			
HR 9059	1.64 s	1.62 s								872. s			
V375 Cas										34.8 s			
U Peg	1.18	0.39											
QX Cas													
LQ And													
ome Psc													

Name	Notes
NN Cep	SB2
HD 217919	
V425 Cas	
CW Cep	del m=0.30; U=45.58y; l3=0.097 y
AK Gru	
HD 218154	
AA And	
PSR 2303+46	DM=60.9; U=33300y; M1+M2=2.9+/-0.3 Msun
BD And	
KX And	gam Cas (del V=0.135)
HR 8800	del m=2.0; U=143y
HR 8803	del m=2.14
iot Gru	
KZ And	BY; *Prot=3.03d
RT And	del m=2.25V; *Pphtm~~Porb
AB And	del m=-0.40 V
SZ Psc	del mbol=1.0; *Pphtm=3.955d
V649 Cas	*l3=0.0017 bol
EZ Peg	RS (del V=0.22)
AN And	del m=1.08B; prob. triple
HD 220057	
V368 Cep	
WZ Cep	
IP Peg	UG; *+8.342x10-11 E2
HR 8899	
EG Aqr	UG(?); Object marked PHL 505 not a CV (Szkody, P., Howell, S.B. 1992, ApJ Sup, 78, 537)
LO And	
VZ Psc	*lam 6510
ZZ Psc	ZZ; Fictitious orbit (Graham, et al. 1990, ApJ, 357, L21; Winget, et al. 1990, ApJ, 357, 630)
VY Scl	NL
DX And	
AR Cas	
HD 221264A	del V=0.67; Vis. orb: P=48.76y, T=1909.55, a=0.198", e=0.43, i=132.4°, ome=155.4°, Ome=73.4° (Eggen, O.J. 1963, AJ, 68, 512); Co
DI Peg	
lam And	(4.74-5.13 B); *Pphtm=53.952d

Name	Notes
KS Peg	Combined photometric/spectroscopic soln to lc adopted
KT Peg	*Pphtm=6.092d
HX Peg	NL
QQ Cas	
EL Aqr	P=0.6345d possible
V651 Cas	
V630 Cas	UG:
VZ Scl	
UU Cas	del m=1.51
BC Cas	t3=75d
HR 9038	del m=0.10
II Peg	*Pphtm=6.718d
AL Scl	
V373 Cas	del B=2.05; del m=0.71
HR 9059	del m=0.14
V375 Cas	
U Peg	del m=0.44; (B-V)I,II=+0.68,+0.66
QX Cas	Min II-Min I=0.375p
LQ And	Pulsator, P=0.61904d
ome Psc	

INDEX

INDEX DESCRIPTION

Adopted Right Ascensions and Declinations (B1950) of all sources are listed by catalogue number as follows:

AGK3	*3rd Astronomische Gesellschaft Catalogue*
AN	*Astronomische Nachrichten* variable star discovery lists
Bayer/Lacaille	Designation according to **Bayer** and **Lacaille**, as identified and clarified by Flamsteed, Baily, and Gould
BD	*Bonner Durchmusterung*
BV	Variables discovered at the Bamberg Observatory
CoD	*Cordoba Durchmusterung*
CPD	*Cape Photographic Durchmusterung*
CSV	*Catalogue of Suspected Variable Stars*
FK4	*Fourth Fundamental Catalogue*
FK4Sup	*Supplement to the Fourth Fundamental Catalogue*
Flamsteed	*Historia Coelestis Britannicae* (Flamsteed)
GC	*General Catalogue of 33342 Stars for the Epoch 1950* (Boss)
GCVS	*General Catalogue of Variable Stars*, 4th edition, plus subsequent name-lists
Gl/GJ	*Nearby Stars* (Gliese), and *Nearby Stars Supplement* (Gliese and Jahreiss)
Gould	*Uranometria Argentina* (Gould)
HD	*Henry Draper Catalogue*
HDE	*Henry Draper Catalogue, Extension*
He	Henize's lists of planetary nebulae and emission line stars
Hevelius	*Prodromus Astronomiae* (Hevelius)
HR	*Harvard Revised Photometry* (*Bright Star Catalogue*)
HV	Variable star discovered at Harvard College Observatory
INCA	Astrometric radio stars
IRC	*Two-Micron Infrared Sky Survey*
LS	*Luminous Stars of the Northern Milky Way* (Hamburg) and *Luminous Stars of the Southern Milky Way* (Case Western Reserve University)
MR	Roberts' catalogue of galactic Wolf-Rayet stars
Name	Arabic/Latin star name
Nova	Nova constellation and year designation
NSV	*New Catalogue of Suspected Variable Stars*
P	Prager's catalogues of variable stars
S	Variables discovered at the Sonneberg Observatory ($S \geq 3262$)
SAO	*Smithsonian Astrophysical Observatory Catalogue*
SRS	*Southern Reference System*
SVS	Soviet Variable Stars
WR	*Catalogue of Galactic Wolf-Rayet Stars*
X	X-ray source coordinate designations
X-Ray Name	Common X-ray source names by constellation
Zi	Zinner's catalogue of variable stars
Miscellaneous	Stellar catalogues and lists not otherwise enumerated
ADS	*New General Catalogue of Double Stars within 120° of the North Pole*
Visual Binary	Binary stars names by discoverer

AGK3	α_{1950}	δ_{1950}
+89°		
+88°		
+87°		
+86° 217	16 21 10.745	+86 19 22.67
+86° 223	16 43 45.610	+86 31 58.37
+85°		
+84°		
+83° 324	12 38 26.304	+83 55 05.57
+83° 327	12 48 38.683	+83 41 22.40
+82° 177	06 30 36.832	+82 18 46.74
+82° 491	16 51 00.905	+82 07 21.54
+82° 651	22 00 13.572	+82 37 51.47

AGK3

AGK3	α_{1950}	δ_{1950}
+81° 22	00 57 44.960	+81 36 24.67
+81° 81	03 03 48.046	+81 16 50.48
+80°		
+79° 76	02 06 41.399	+79 27 28.93
+79° 490	18 03 47.520	+79 59 48.27
+78° 47	02 16 35.776	+78 40 55.14
+78° 558	23 17 50.188	+78 43 43.62
+77° 381	12 09 52.843	+77 53 38.20
+76° 792	20 17 16.981	+76 39 10.91
+75° 688	16 54 27.262	+75 28 20.36
+75° 780	18 47 59.715	+75 22 33.84
+75° 860	20 38 02.972	+75 24 57.96
+75°1020	23 49 57.039	+75 15 57.16
+74° 16	00 42 18.429	+74 42 54.68
+74° 18	00 44 23.261	+74 34 30.08
+74° 217	08 31 02.587	+74 53 49.46

AGK3

AGK3	α_{1950}	δ_{1950}
+73°		
+72° 116	04 27 40.895	+72 25 26.83
+72° 317	12 13 21.404	+72 49 45.35
+71° 535	18 21 28.502	+71 18 42.09
+70° 370	09 30 05.838	+70 03 06.47
+70° 446	12 31 21.550	+70 03 48.96
+70° 741	21 30 21.043	+70 36 07.09
+69° 134	02 44 22.790	+69 25 33.10
+69° 313	06 41 58.360	+69 40 59.44
+69° 415	09 32 20.399	+69 51 40.75
+69° 502	12 04 38.357	+69 21 14.88
+69° 515	12 27 55.874	+69 28 40.81
+68° 734	17 36 56.075	+68 24 36.07
+68° 736	17 37 14.348	+68 46 52.48
+68° 997	22 55 59.145	+68 08 22.09
+67° 156	02 40 29.543	+67 36 50.37
+67°1034	22 43 20.184	+67 51 55.48
+66° 267	04 49 03.825	+66 15 38.64
+66°1070	21 47 58.623	+66 33 33.04
+66°1127	22 30 50.559	+66 53 34.27

AGK3

AGK3	α_{1950}	δ_{1950}
+65° 180	02 41 44.344	+65 30 58.93
+65° 520	10 20 33.038	+65 49 12.47
+65°1166	21 55 54.364	+65 55 02.03
+64° 666	14 03 01.963	+64 36 51.57
+64° 695	14 37 56.367	+64 30 23.09
+64° 731	15 33 07.055	+64 04 22.39
+64°1042	21 18 19.996	+64 39 34.13
+64°1165	22 46 03.889	+64 47 52.45
+63° 4	00 03 26.837	+63 24 05.25
+63° 776	15 06 52.873	+63 18 26.92
+63°1152	21 03 05.034	+63 10 47.34
+63°1297	23 01 01.330	+63 25 43.62
+63°1300	23 02 01.066	+63 07 37.84
+62° 238	02 48 14.963	+62 34 39.82
+62° 342	04 03 23.893	+62 11 59.14
+62° 861	15 10 50.422	+62 02 48.65
+62° 862	15 10 50.660	+62 02 32.88
+62°1140	20 18 46.789	+62 05 53.62
+62°1287	21 52 21.867	+62 22 39.81
+62°1375	22 51 57.212	+62 19 49.22
+62°1385	22 54 44.244	+62 21 26.84
+62°1389	22 56 41.180	+62 48 32.58
+62°1390	22 57 43.186	+62 30 32.18
+62°1392	23 00 04.241	+62 14 34.90
+61° 18	00 15 34.860	+61 26 58.48
+61° 230	02 21 54.217	+61 19 28.35
+61° 243	02 28 54.018	+61 14 08.89
+61° 639	09 10 24.611	+61 37 51.35
+61° 717	11 00 17.684	+61 55 28.35
+61°1403	22 51 18.386	+61 52 46.53
+61°1427	23 14 17.395	+61 41 23.90

AGK3	α_{1950}	δ_{1950}
+60° 107	00 53 45.153	+60 05 33.50
+60° 136	01 11 34.092	+60 40 30.80
+60° 159	01 26 16.047	+60 42 36.07
+60° 286	02 37 34.612	+60 20 23.07
+60° 741	10 35 04.695	+60 23 14.87
+60°1552	23 17 48.400	+60 52 33.72
+59° 181	01 52 15.745	+59 01 44.03
+59° 325	03 08 36.873	+59 43 56.04
+59° 326	03 10 07.368	+59 22 38.39
+59° 506	05 50 28.973	+59 52 47.21
+59°1575	23 05 03.149	+59 27 24.27
+58° 10	00 03 37.946	+58 09 29.61
+58° 16	00 06 29.735	+58 52 26.77
+58° 36	00 16 36.071	+58 51 41.93
+58° 296	02 47 59.551	+58 06 32.59
+58°1008	16 00 56.829	+58 41 53.69
+58°1121	18 22 21.813	+58 52 34.23
+58°1337	21 15 56.356	+58 24 03.42
+58°1339	21 17 52.610	+58 24 41.39
+58°1459	22 27 17.496	+58 08 51.88
+58°1491	22 45 19.108	+58 13 30.10
+58°1562	23 27 42.766	+58 16 23.18
+57° 81	00 46 03.907	+57 33 02.76
+57° 274	02 12 07.482	+57 31 52.18
+57° 275	02 12 32.399	+57 30 47.09
+57° 793	10 42 52.674	+57 11 02.14
+57°1108	17 22 30.540	+57 03 22.66
+57°1221	19 02 46.279	+57 22 52.44
+57°1223	19 04 08.645	+57 02 50.63
+57°1464	21 37 24.390	+57 15 44.56
+57°1511	22 00 23.540	+57 45 30.82
+57°1605	22 44 54.272	+57 49 13.60
+57°1713	23 53 02.700	+57 08 02.20
+56° 257	02 14 16.084	+56 24 38.60
+56° 348	02 37 32.967	+56 31 00.34
+56° 585	06 22 12.642	+56 18 51.33
+56° 765	09 40 15.413	+56 10 56.29
+56°1162	18 13 48.337	+56 34 13.96
+56°1504	21 44 45.358	+56 41 07.57
+56°1581	22 27 02.414	+56 20 49.40
+56°1596	22 34 56.770	+56 38 45.88
+56°1680	22 49 26.310	+56 44 23.00
+55° 206	01 59 07.466	+55 23 00.78
+55° 253	02 22 25.963	+55 52 40.13
+55°1189	18 41 39.774	+55 29 17.40
+55°1432	21 09 32.920	+55 07 36.53
+55°1504	21 50 19.323	+55 33 40.38
+55°1548	22 14 52.754	+55 13 37.53
+55°1559	22 16 54.536	+55 52 29.89
+55°1559	22 16 54.536	+55 52 29.89
+55°1567	22 19 16.829	+55 17 55.60
+55°1723	23 54 36.576	+55 25 39.25
+54° 198	01 48 41.291	+54 54 02.85
+54° 284	02 17 45.610	+54 16 54.43
+54° 702	09 06 18.413	+54 41 39.96
+54° 883	12 54 06.309	+54 22 10.96
+54°1246	19 37 33.728	+54 51 21.44
+54°1274	19 55 47.054	+54 39 50.45
+53° 132	01 28 56.492	+53 45 43.33
+53° 347	03 54 45.698	+53 50 46.90
+53° 428	04 53 16.202	+53 40 27.79
+53° 527	06 17 42.423	+53 28 28.35

AGK3

AGK3	α_{1950}	δ_{1950}
+52° 68	00 39 48.850	+52 03 48.22
+52°1107	16 55 08.726	+52 46 31.80
+52°1221	18 45 35.976	+52 55 56.41
+52°1726	23 08 55.444	+52 45 15.93
+51° 29	00 15 03.362	+51 09 19.72
+51° 39	00 21 33.308	+51 44 34.74
+51° 734	09 05 21.304	+51 48 28.45
+51°1244	18 32 44.674	+51 40 59.90
+50° 193	01 40 30.757	+50 26 15.92
+50° 206	01 48 57.679	+50 32 47.91
+50° 276	02 24 29.671	+50 20 51.62
+50° 356	03 15 03.309	+50 02 26.55
+50° 410	03 52 52.755	+50 33 09.32
+50° 449	04 14 28.414	+50 10 29.09
+50° 839	10 10 33.128	+50 44 39.95
+50°1683	21 40 18.925	+50 57 39.10
+49° 425	03 27 54.488	+49 02 24.24
+49°1455	18 46 12.064	+49 22 32.22
+49°1867	21 44 56.560	+49 04 39.35
+49°1990	22 28 02.776	+49 06 00.43
+49°1999	22 33 48.436	+49 48 41.23
+49°2062	23 04 51.062	+49 55 18.26
+48° 61	00 33 30.247	+48 16 50.29
+48° 71	00 41 55.654	+48 00 40.00
+48° 399	03 24 29.041	+48 53 24.91
+48° 456	03 56 06.773	+48 00 36.22
+48°1158	14 47 59.571	+48 55 35.48
+48°1707	21 05 58.573	+48 39 11.34
+47° 288	02 42 19.639	+47 56 01.86
+47° 369	03 24 24.530	+47 33 47.66
+47° 431	04 05 01.311	+47 34 51.78
+47° 814	09 14 10.453	+47 01 37.03
+47°1270	17 45 47.382	+47 37 42.95
+47°1321	18 20 50.701	+47 32 32.22
+47°1536	20 10 31.573	+47 35 10.07
+47°1680	20 58 07.395	+47 19 30.08
+47°1705	21 05 39.353	+47 04 30.65
+47°1826	21 57 00.294	+47 44 36.86
+47°1854	22 03 53.289	+47 59 15.34
+47°2021	23 07 39.187	+47 41 13.25
+46° 92	00 40 41.378	+46 45 04.98
+46° 116	00 55 51.685	+46 46 01.03
+46° 472	05 11 47.306	+46 21 00.58
+46°1288	17 38 03.064	+46 01 55.28
+46°1431	19 10 37.590	+46 14 17.65
+46°1531	19 50 28.606	+46 53 51.46
+46°1611	20 17 13.390	+46 09 52.89
+46°1754	21 02 08.677	+46 07 52.41
+46°1993	22 18 57.330	+46 17 03.55
+46°2169	23 35 06.520	+46 11 13.83
+46°2225	23 56 13.367	+46 08 05.52
+45° 133	01 19 23.103	+45 16 02.87
+45° 512	05 12 59.466	+45 56 58.04
+45° 757	08 19 29.490	+45 37 04.05
+45° 911	10 42 24.406	+45 49 45.79
+45°1148	14 52 37.580	+45 30 00.71
+45°1405	17 59 41.017	+45 21 00.49
+45°1715	20 31 58.405	+45 00 11.99
+45°1797	20 59 26.089	+45 57 31.22
+45°1977	22 06 39.437	+45 29 45.72
+45°2112	23 05 00.316	+45 47 51.23

AGK3	α_{1950}	δ_{1950}
+44° 63	00 25 31.854	+44 07 05.34
+44°1845	20 51 28.521	+44 11 49.78
+44°1858	20 54 48.837	+44 43 53.95
+44°2009	21 58 03.584	+44 18 41.90
+43° 622	05 38 43.987	+43 02 09.84
+43° 634	05 44 51.095	+43 03 59.45
+43° 811	07 55 05.688	+43 38 23.87
+43° 987	10 51 06.527	+43 27 23.92
+43°1809	20 18 46.706	+43 41 42.90
+43°1846	20 31 07.830	+43 01 13.37
+43°1923	21 03 06.589	+43 43 39.33
+43°1959	21 16 35.137	+43 44 05.12
+42° 566	05 08 10.174	+42 06 18.30
+42°2238	22 59 36.882	+42 03 25.50
+41° 199	01 54 53.749	+41 27 05.29
+41° 238	02 19 46.515	+41 15 10.44
+41° 510	05 01 32.952	+41 13 13.94
+41° 513	05 03 00.214	+41 10 08.38
+41° 555	05 18 15.839	+41 45 24.49
+41° 829	08 04 16.873	+41 56 47.10
+41° 966	09 54 37.760	+41 17 40.83
+41° 998	10 19 21.469	+41 45 06.25
+41°1055	11 28 07.900	+41 33 50.35
+41°1215	13 57 02.939	+41 03 41.76
+41°1664	19 04 39.741	+41 20 07.47
+41°1729	19 25 57.738	+41 35 55.19
+41°1922	20 30 34.848	+41 08 04.04
+41°1989	20 56 39.840	+41 44 42.75
+41°2230	22 48 06.137	+41 41 17.91
+41°2244	22 54 06.327	+41 20 11.95
+41°2289	23 16 00.611	+41 30 01.40

AGK3

AGK3	α_{1950}	δ_{1950}
+40° 74	00 47 02.830	+40 48 25.23
+40° 226	02 05 59.297	+40 33 28.73
+40° 360	03 04 54.356	+40 45 52.46
+40° 395	03 23 07.509	+40 17 02.83
+40°1054	09 19 17.443	+40 25 11.74
+40°1073	09 32 15.317	+40 11 12.01
+40°1587	17 20 05.060	+40 01 22.05
+40°1912	19 48 54.286	+40 28 17.88
+40°2011	20 17 35.404	+40 43 47.71
+40°2192	21 19 04.079	+40 08 05.80
+40°2246	21 40 22.030	+40 50 52.85
+39° 30	00 17 52.099	+39 56 57.05
+39° 288	02 34 12.057	+39 40 47.31
+39° 412	03 30 16.731	+39 43 57.63
+39° 590	05 06 14.762	+39 31 25.41
+39°1289	12 42 37.629	+39 33 00.75
+39°1911	19 12 03.285	+39 03 32.22
+39°2259	21 15 26.951	+39 11 03.50
+38° 663	06 03 08.245	+38 29 20.96
+38° 958	09 00 13.775	+38 17 47.88
+38°1073	10 36 16.459	+38 10 16.49
+38°1118	11 16 24.722	+38 27 36.38
+38°1763	18 56 19.140	+38 11 50.84
+38°1792	19 06 05.367	+38 50 52.85
+38°1977	20 10 17.128	+38 12 15.05
+38°2015	20 17 42.595	+38 34 24.27
+38°2016	20 17 48.291	+38 10 39.06
+38°2110	20 51 12.122	+38 38 16.09
+38°2138	21 04 39.935	+38 29 59.10

AGK3

AGK3	α_{1950}	δ_{1950}
+37° 130	01 20 48.441	+37 27 16.30
+37° 473	04 04 13.992	+37 56 41.15
+37°1275	13 32 33.917	+37 26 16.62
+37°1687	18 43 02.931	+37 33 06.40
+37°1769	19 17 15.486	+37 21 07.30
+37°1915	20 06 54.984	+37 05 23.35
+37°1950	20 15 08.535	+37 16 03.40
+37°1951	20 15 37.961	+37 09 09.05
+37°1960	20 17 16.236	+37 36 41.93
+37°2038	20 49 35.426	+37 48 03.70
+37°2248	22 36 48.620	+37 06 53.25
+37°2278	22 51 22.571	+37 40 18.88
+36° 533	05 14 58.535	+36 34 47.04
+36° 576	05 39 08.717	+36 10 36.86
+36° 939	09 31 09.969	+36 37 14.38
+36° 941	09 32 39.994	+36 02 14.94
+36°1172	13 00 56.027	+36 53 06.23
+36°1290	14 35 05.785	+36 08 45.77
+36°1707	18 51 58.664	+36 54 29.44
+36°1801	19 24 20.981	+36 12 59.47
+36°1907	19 58 05.074	+36 54 16.84
+36°1953	20 08 21.611	+36 01 39.80
+36°1973	20 12 39.405	+36 30 28.15
+36°1991	20 16 53.877	+36 10 59.54
+36°2201	21 25 18.865	+36 53 54.87
+36°2371	23 09 08.593	+36 37 19.07
+35° 395	03 55 42.825	+35 38 56.50
+35° 538	05 26 21.969	+35 20 10.96
+35° 614	06 05 08.698	+35 08 56.35
+35°1266	14 15 52.952	+35 44 21.87
+35°1910	19 56 28.879	+35 03 54.77
+35°1945	20 04 04.633	+35 38 38.28
+35°1950	20 04 16.624	+35 14 29.31
+35°1956	20 04 42.130	+35 35 44.25
+35°1960	20 05 30.742	+35 34 20.72
+35°1989	20 13 37.930	+35 59 01.34

AGK3

AGK3	α_{1950}	δ_{1950}
+35°2051	20 31 57.382	+35 04 43.09
+35°2061	20 35 23.125	+35 15 39.14
+35°2195	21 19 20.496	+35 31 22.15
+34° 207	02 06 33.579	+34 45 06.52
+34° 336	03 12 53.372	+34 30 18.42
+34° 573	05 24 32.790	+34 44 31.22
+34°1452	16 02 19.537	+34 18 51.32
+34°1582	17 24 58.263	+34 44 11.51
+34°2089	20 50 03.571	+34 28 07.77
+33° 65	00 34 12.186	+33 26 39.75
+33° 211	02 13 59.587	+33 59 47.81
+33° 355	03 44 41.964	+33 26 48.35
+33° 382	04 03 43.447	+33 18 46.44
+33° 490	05 15 01.293	+33 42 55.62
+33°1520	17 15 28.612	+33 09 10.07
+33°1690	18 48 13.936	+33 18 12.51
+33°1691	18 48 15.823	+33 17 33.39
+33°1838	19 46 56.044	+33 18 40.04
+33°2104	21 22 54.511	+33 28 17.54
+32° 349	03 41 10.603	+32 07 53.49
+32° 360	03 46 22.636	+32 56 23.13
+32° 393	04 03 28.216	+32 15 04.95
+32° 454	04 46 04.700	+32 30 08.81
+32° 494	05 12 08.799	+32 37 54.05
+32° 656	06 29 11.433	+32 29 32.59
+32°1325	15 17 28.967	+32 41 42.37
+32°2089	21 19 15.420	+32 23 58.16
+32°2319	23 21 19.723	+32 15 22.09
+31° 29	00 22 01.773	+31 05 46.92
+31° 86	01 00 04.351	+31 32 10.53
+31° 107	01 10 06.406	+31 48 38.37
+31° 338	03 31 53.836	+31 51 04.16
+31° 368	03 50 58.959	+31 44 12.55

AGK3	α_{1950}	δ_{1950}
+31° 789	07 31 24.635	+31 59 57.61
+31° 789	07 31 24.673	+32 00 00.53
+31° 790	07 31 26.235	+31 58 50.36
+31°1224	13 43 58.759	+31 08 52.49
+31°1333	15 16 08.916	+31 49 43.37
+31°1956	20 03 29.484	+31 49 40.28
+31°2045	20 31 03.680	+31 29 08.84
+30° 219	02 09 27.778	+30 04 10.44
+30° 219	02 09 27.868	+30 04 14.14
+30° 283	02 45 42.348	+30 54 36.28
+30°1141	11 27 25.619	+30 14 35.79
+30°1218	12 38 40.927	+30 42 39.76
+30°1517	16 31 32.105	+30 36 09.91
+30°1561	16 58 22.471	+30 59 55.92
+30°1818	19 05 35.458	+30 10 23.75
+30°2052	20 07 05.122	+30 24 10.57
+30°2113	20 19 27.930	+30 25 47.38
+30°2640	23 27 57.591	+30 33 22.27
+29° 44	00 20 12.269	+29 10 38.27
+29° 233	01 50 13.440	+29 20 10.14
+29° 559	05 18 01.655	+29 31 15.77
+29° 591	05 36 07.380	+29 11 17.37
+29° 890	07 40 11.374	+29 00 22.23
+29°1269	12 27 00.892	+29 47 20.00
+29°1507	15 37 12.527	+29 47 00.77
+29°1782	18 06 19.888	+29 40 57.54
+29°1821	18 19 01.374	+29 50 01.63
+29°1832	18 24 02.968	+29 47 56.13
+29°2664	21 47 37.796	+29 56 26.28
+29°2773	22 29 15.036	+29 17 08.97

AGK3	α_{1950}	δ_{1950}
+28° 11	00 05 47.841	+28 48 52.12
+28° 359	03 23 33.019	+28 32 32.53
+28°1334	13 29 43.743	+28 50 29.55
+28°2532	21 42 05.932	+28 33 07.71
+28°2842	23 52 29.081	+28 21 17.88
+27° 217	01 57 42.427	+27 38 50.46
+27° 407	04 00 49.539	+27 59 22.76
+27° 416	04 03 32.054	+27 27 59.58
+27° 445	04 33 41.765	+27 02 01.03
+27° 497	05 17 50.783	+27 54 30.55
+27° 559	05 50 10.984	+27 36 08.48
+27°1239	12 32 18.928	+27 06 16.26
+27°1492	16 04 47.386	+27 24 33.36
+27°1547	16 39 34.863	+27 00 42.82
+27°1916	19 13 55.995	+27 21 59.40
+27°2353	21 00 16.464	+27 36 33.50
+27°2461	21 33 05.963	+27 58 27.11
+27°2774	23 36 59.446	+27 57 58.55
+26° 524	05 35 47.963	+26 17 18.02
+26° 562	05 47 05.750	+26 56 58.03
+26° 997	09 05 51.076	+26 50 13.96
+26°1240	12 05 03.135	+26 10 39.81
+26°1258	12 17 48.976	+26 53 54.44
+26°1267	12 20 37.805	+26 07 42.83
+26°1381	13 53 51.820	+26 09 46.07
+26°1518	15 47 29.713	+26 13 13.16
+26°2234	20 08 28.223	+26 45 17.59
+26°2249	20 11 41.158	+26 35 53.27
+25° 318	03 34 10.194	+25 49 51.24
+25° 325	03 37 46.777	+25 10 09.75
+25° 517	05 36 38.143	+25 52 15.31
+25°1096	09 41 19.491	+25 35 02.80
+25°1330	12 18 33.925	+25 59 51.52
+25°1339	12 22 31.887	+25 50 15.38
+25°1432	13 44 23.997	+25 57 08.51
+25°1460	14 08 07.066	+25 19 39.84
+25°2098	19 19 35.300	+25 28 44.08
+25°2550	21 21 53.419	+25 05 48.62

AGK3

AGK3	α_{1950}	δ_{1950}
+25°2605	21 42 22.714	+25 24 51.41
+25°2623	21 50 47.084	+25 41 20.87
+25°2653	22 04 40.836	+25 06 00.71
+25°2781	23 14 26.026	+25 26 46.28
+24° 227	02 34 07.128	+24 25 50.90
+24° 347	03 44 30.587	+24 08 07.14
+24° 442	04 55 49.751	+24 25 14.37
+24° 461	05 05 03.646	+24 12 02.80
+24° 510	05 32 23.746	+24 00 29.86
+24° 698	06 36 27.466	+24 38 41.02
+24°1119	09 57 13.305	+24 47 36.13
+24°1307	12 26 57.037	+24 23 06.37
+24°1389	13 28 24.772	+24 29 25.23
+24°1479	14 32 58.282	+24 51 25.62
+24°1944	18 47 11.007	+24 59 18.60
+24°1948	18 48 45.961	+24 39 36.06
+24°1953	18 51 21.765	+24 12 54.00
+24°2490	23 03 02.596	+24 22 58.66
+23° 72	00 44 40.968	+23 59 43.95
+23° 123	01 22 51.423	+23 15 07.42
+23° 302	03 41 54.055	+23 57 27.82
+23° 354	03 54 05.621	+23 01 55.17
+23° 588	05 58 25.764	+23 08 27.22
+23° 596	06 01 04.774	+23 16 04.51
+23° 642	06 15 22.778	+23 35 30.97
+23°1827	18 53 47.211	+23 29 40.63
+23°1982	19 51 50.368	+23 25 58.09
+22° 152	01 28 59.864	+22 29 03.90
+22° 188	02 03 45.702	+22 24 39.13
+22° 206	02 12 31.699	+22 20 13.83
+22° 344	03 42 51.373	+22 59 32.97
+22° 456	04 39 14.403	+22 51 46.00
+22°1213	10 59 57.200	+22 14 13.72
+22°1929	19 15 32.192	+22 20 59.99
+22°2038	19 48 54.847	+22 28 53.89
+22°2418	22 14 18.976	+22 38 47.51

AGK3	α_{1950}	δ_{1950}
+21° 404	04 16 28.992	+21 01 22.50
+21° 543	05 34 39.263	+21 06 50.00
+21° 816	07 24 46.351	+21 32 56.88
+21°1070	09 47 02.359	+21 24 48.04
+21°1607	16 28 04.105	+21 35 50.16
+21°1652	16 58 58.842	+21 34 11.44
+21°1779	18 03 42.272	+21 26 26.17
+21°1779	18 03 42.272	+21 26 26.17
+21°1906	18 50 08.196	+21 21 48.31
+21°1949	19 14 03.958	+21 18 03.00
+21°2167	20 22 58.190	+21 19 29.54
+20° 171	01 51 52.340	+20 33 52.09
+20° 422	04 35 18.604	+20 35 09.65
+20° 433	04 38 22.034	+20 48 34.57
+20° 488	05 14 33.482	+20 04 48.20
+20°1755	17 24 39.539	+20 07 19.95
+20°1840	18 00 14.676	+20 49 55.39
+20°2003	18 59 13.272	+20 45 37.79
+19° 500	05 51 58.976	+19 44 29.91
+19° 526	06 00 29.692	+19 41 35.51
+19° 873	08 37 10.291	+19 10 39.16
+19°1391	14 49 04.800	+19 18 24.60
+19°1860	19 16 37.017	+19 31 04.26
+19°2119	20 54 53.056	+19 27 18.84
+18° 354	04 33 42.934	+18 39 15.79
+18° 595	06 23 14.318	+18 47 20.98
+18°1020	09 58 01.841	+18 06 11.91
+18°1195	12 32 35.859	+18 39 07.47
+18°2390	23 35 25.105	+18 07 24.38

AGK3	α_{1950}	δ_{1950}
+17° 176	02 05 00.932	+17 47 32.20
+17° 251	02 46 29.840	+17 15 27.29
+17° 594	06 11 33.303	+17 55 20.05
+17°1092	09 58 55.919	+17 39 03.97
+17°1092	09 58 55.919	+17 39 03.97
+17°1095	09 59 50.289	+17 17 17.18
+17°1227	11 32 06.389	+17 04 23.44
+17°1620	16 33 11.685	+17 09 32.66
+16° 75	00 46 20.792	+16 40 15.74
+16° 214	02 19 47.680	+16 38 35.41
+16° 364	04 20 32.670	+16 39 43.80
+16° 414	04 47 56.057	+16 07 35.05
+16° 523	05 53 57.266	+16 20 58.38
+16° 575	06 09 10.198	+16 08 37.04
+16°1224	11 46 39.843	+16 31 18.60
+16°1630	16 52 08.612	+16 55 02.73
+16°1661	17 11 43.180	+16 24 27.89
+16°1917	19 06 25.899	+16 46 18.21
+16°1950	19 16 30.078	+16 23 45.50
+16°1961	19 22 07.267	+16 50 20.28
+16°2549	22 50 34.454	+16 34 31.28
+15° 370	04 25 48.214	+15 45 41.88
+15°1269	11 53 06.284	+15 55 30.08
+15°1824	17 55 51.349	+15 08 31.12
+15°2660	23 55 25.150	+15 40 30.80
+14° 9	00 09 54.612	+14 17 11.48
+14° 227	02 30 09.520	+14 48 52.07
+14° 392	04 19 53.799	+14 56 25.18
+14° 606	06 09 05.753	+14 13 18.68
+14°1138	10 35 40.955	+14 31 39.89
+14°1666	16 34 40.598	+14 34 30.70
+14°1782	17 42 00.614	+14 25 48.97
+14°2262	20 37 16.454	+14 15 05.69
+14°2617	23 29 43.239	+14 41 35.02

AGK3	α_{1950}	δ_{1950}
+13° 343	04 18 03.740	+13 44 47.42
+13° 345	04 19 14.250	+13 57 38.10
+13°1061	10 37 53.919	+13 49 41.65
+13°1196	11 58 29.742	+13 17 13.09
+13°1628	16 52 57.654	+13 41 57.63
+13°1847	18 49 44.326	+13 54 15.54
+13°1968	19 38 46.581	+13 41 53.48
+13°2284	21 24 17.421	+13 28 14.79
+12°1188	09 55 32.100	+12 41 03.03
+12°1373	12 11 47.877	+12 05 54.90
+12°1656	15 46 29.487	+12 52 32.56
+12°1953	18 28 20.265	+12 34 31.12
+12°2570	21 48 36.187	+12 23 27.65
+11° 419	04 24 42.955	+11 06 05.36
+11° 430	04 32 46.804	+11 59 55.97
+11° 697	06 28 22.604	+11 17 15.24
+11°1147	09 47 08.650	+11 20 27.63
+11°1912	17 29 55.112	+11 57 53.52
+11°2372	19 53 52.132	+11 17 22.86
+11°2529	20 35 25.553	+11 12 07.03
+11°2644	21 16 09.806	+11 21 30.02
+10° 449	04 26 57.746	+10 24 48.13
+10°1179	09 05 02.414	+10 52 14.13
+10°1379	10 59 34.162	+10 09 53.23
+10°1883	16 03 32.437	+10 49 11.39
+10°2237	18 26 52.942	+10 51 28.93
+10°2356	19 04 37.292	+10 59 34.00
+10°2575	19 59 03.538	+10 36 33.14
+10°2617	20 07 35.981	+10 12 05.66
+10°2885	21 18 55.406	+10 07 10.24
+9° 489	05 06 34.444	+09 46 01.19
+9° 633	05 59 37.852	+09 38 56.27
+9° 748	06 37 43.434	+09 51 54.72
+9° 750	06 37 53.245	+09 50 06.93
+9°1727	14 32 36.509	+09 19 58.50

AGK3

AGK3	α_{1950}	δ_{1950}
+9°2169	18 06 58.344	+09 08 27.59
+9°2343	18 53 00.002	+09 16 53.30
+9°2381	19 02 45.622	+09 33 55.90
+9°2585	19 45 48.361	+09 11 01.76
+8° 21	00 12 24.138	+08 32 35.70
+8° 591	05 19 00.088	+08 22 50.64
+8° 631	05 34 35.124	+08 55 22.13
+8° 832	06 43 48.773	+08 38 30.21
+8°1194	08 49 35.089	+08 15 18.27
+8°1391	10 32 24.801	+08 54 33.57
+8°1918	16 03 12.539	+08 13 50.63
+8°2996	21 37 34.126	+08 57 26.46
+8°3017	22 10 54.207	+08 10 38.36
+7° 135	01 11 08.335	+07 18 52.03
+7° 149	01 18 26.843	+07 20 38.93
+7° 480	04 35 12.600	+07 13 06.78
+7°2044	16 21 44.526	+07 03 44.55
+7°2194	17 23 54.053	+07 38 17.03
+7°2766	19 47 51.889	+07 46 29.79
+7°3011	20 47 21.142	+07 40 37.88
+6° 125	01 14 18.536	+06 32 52.97
+6° 436	04 12 45.952	+06 04 37.48
+6° 774	06 34 29.664	+06 06 08.90
+6° 776	06 34 43.220	+06 10 44.47
+6°1109	08 33 11.523	+06 47 45.07
+6°1139	08 45 47.114	+06 01 24.82
+6°2266	18 25 32.158	+06 09 43.34
+5° 394	03 43 00.821	+05 53 41.52
+5° 627	05 28 06.416	+05 54 41.79
+5°1590	11 02 29.464	+05 25 21.48
+5°1861	13 43 36.039	+05 21 56.68
+5°2324	17 43 29.945	+05 42 47.12

AGK3

AGK3	α_{1950}	δ_{1950}
+5°2326	17 43 43.758	+05 40 35.84
+5°2332	17 44 19.434	+05 34 57.41
+5°2334	17 44 35.061	+05 42 33.23
+5°2340	17 46 16.265	+05 42 59.48
+5°2760	19 32 56.560	+05 43 38.20
+5°2775	19 36 43.539	+05 16 56.69
+5°3068	20 54 49.875	+05 37 15.97
+4° 451	04 22 04.193	+04 35 09.36
+4°1354	09 47 53.998	+04 34 42.92
+4°1707	13 25 12.736	+04 07 58.81
+4°2223	17 54 24.291	+04 59 30.82
+4°2824	20 51 02.672	+04 27 25.20
+4°2839	20 54 43.193	+04 53 13.36
+4°2845	20 56 34.570	+04 06 02.09
+3° 641	05 24 12.930	+03 03 14.26
+3° 643	05 24 30.136	+03 48 51.27
+3°1162	08 24 26.810	+03 40 50.83
+2° 791	06 43 13.331	+02 33 11.10
+2°1064	08 04 02.833	+02 04 27.19
+2°1292	09 40 51.573	+02 51 25.03
+2°2918	23 10 50.577	+02 24 09.70
+1° 640	05 55 48.526	+01 50 01.00
+1°1256	10 00 13.485	+01 20 11.57
+1°1561	13 27 14.065	+01 21 16.65
+1°1952	17 13 59.357	+01 15 53.07
+1°2068	18 02 05.802	+01 54 53.89
+0° 117	01 20 16.664	+00 27 16.10
+0° 310	03 34 13.130	+00 25 32.96
+0° 468	04 52 16.487	+00 23 15.42
+0° 539	05 23 12.686	+00 28 38.36
+0°2004	16 38 47.763	+00 36 08.38

AGK3	α_{1950}	δ_{1950}	AGK3	α_{1950}	δ_{1950}
+0°2042	17 02 43.918	+00 46 28.23			
+0°2200	18 24 38.902	+00 09 53.73			
+0°2268	18 53 13.166	+00 11 58.95			
-0° 358	03 21 50.132	-00 52 47.00			
-0° 610	05 18 58.611	-00 27 52.47			
-0° 670	05 32 39.920	-00 46 01.02			
-0°1866	13 45 18.592	-00 20 44.98			
-0°1901	14 11 05.875	-00 36 36.88			
-0°2673	20 38 19.779	-00 46 31.92			
-1° 536	05 17 03.159	-01 27 44.10			
-1° 545	05 23 04.494	-01 32 03.78			
-1° 575	05 30 35.612	-01 45 05.11			
-1° 579	05 30 59.063	-01 11 23.03			
-1° 579	05 30 59.063	-01 11 23.03			
-1° 582	05 31 31.369	-01 04 07.23			
-1° 623	05 38 18.310	-01 09 12.66			
-1° 854	06 52 10.273	-01 41 31.75			
-1°1162	07 58 40.698	-01 15 08.75			
-1°1800	13 55 50.215	-01 25 04.50			
-1°1946	15 43 30.273	-01 38 56.03			
-1°2251	18 41 37.182	-01 36 21.90			
-1°2257	18 43 53.644	-01 00 56.62			
-1°2704	22 02 13.118	-01 08 55.93			
-2° 133	05 24 28.143	-02 24 07.49			
-2° 431	08 25 57.681	-02 21 00.72			
-2° 431	08 25 57.689	-02 21 00.60			
-2° 783	13 05 55.345	-02 24 46.32			
-2°1002	16 33 43.677	-02 13 10.02			
-2°1091	18 27 04.776	-02 01 09.27			
-2°1115	19 01 34.079	-02 06 18.37			
-2°1143	19 28 39.676	-02 12 59.60			

AN	α_{1950}	δ_{1950}
26.1900	19 19 35.300	+25 28 44.08
3.1901	03 27 47.529	+43 44 04.67
79.1901	23 08 55.444	+52 45 15.93
93.1901	19 16 37.017	+19 31 04.26
21.1902	20 18 02.14	+20 56 38.6
3.1903	09 40 15.413	+56 10 56.29
67.1903	19 36 24.	+12 09 06.
9.1904	05 52 54.66	+20 09 52.8
102.1904	04 00 49.539	+27 59 22.76
142.1904	22 11 35.54	+12 27 16.4
150.1904	20 53 43.285	+26 29 18.20
151.1904	20 54 33.190	+23 23 01.55
153.1904	20 55 34.01	+25 18 47.6
193.1904	04 03 23.893	+62 11 59.14
247.1904	16 43 29.	-27 18 00.
3.1905	19 14 04.46	+00 02 13.3
38.1905	01 01 45.809	+41 01 54.44
107.1905	20 51 12.122	+38 38 16.09
151.1905	19 56 21.	+16 33 06.
157.1905	20 01 02.31	+16 54 23.3
30.1906	05 58 25.764	+23 08 27.22
36.1906	05 26 29.	-03 36 12.
39.1906	05 49 40.39	-05 25 40.8
77.1906	02 44 22.790	+69 25 33.10
120.1906	02 42 19.639	+47 56 01.86

AN

AN	α_{1950}	δ_{1950}
141.1906	12 58 45.99	-64 21 28.1
158.1906	10 14 11.11	-59 57 56.1
177.1906	11 45 30.48	-60 17 16.0
19.1907	19 54 35.23	-09 27 26.4
26.1907	18 22 21.813	+58 52 34.23
31.1907	06 09 35.200	+47 45 17.68
37.1907	02 41 44.344	+65 30 58.93
38.1907	02 48 14.963	+62 34 39.82
56.1907	18 21 43.60	-13 40 53.7
62.1907	18 46 25.718	-10 17 56.27
66.1907	09 48 20.23	+12 06 35.9
71.1907	04 33 42.934	+18 39 15.79
78.1907	05 06 14.762	+39 31 25.41
79.1907	05 08 10.174	+42 06 18.30
92.1907	13 13 58.03	-62 21 45.6
104.1907	14 47 26.	-55 42 42.
115.1907	16 49 05.67	-61 30 14.5
123.1907	21 45 04.16	+57 03 42.0
126.1907	22 06 39.437	+45 29 45.72
127.1907	22 16 04.60	+54 12 59.4
176.1907	16 52 08.612	+16 55 02.73
196.1907	21 32 23.080	-70 33 28.79
201.1907	03 21 50.132	-00 52 47.00
205.1907	03 52 25.246	-15 04 49.57
217.1907	16 01 22.456	-46 09 27.41
5.1908	08 08 05.401	+62 45 22.74
16.1908	19 15 32.192	+22 20 59.99
34.1908	18 22 42.706	-12 43 09.24
35.1908	18 23 48.968	-09 13 56.04
43.1908	00 33 59.099	-25 56 55.09
134.1908	22 18 24.567	-07 12 59.69
174.1908	17 37 46.12	+32 58 18.2

AN

AN	α_{1950}	δ_{1950}
23.1909	07 37 48.94	-69 25 39.5
44.1909	08 32 58.405	+53 39 04.80
88.1910	15 33 07.055	+64 04 22.39
94.1910	18 20 50.701	+47 32 32.22
106.1910	05 32 55.469	-05 26 50.89
107.1910	05 32 58.911	-05 26 52.21
110.1910	16 13 52.	-62 36 48.
127.1910	18 15 11.385	-43 22 52.61
136.1910	19 25 57.738	+41 35 55.19
137.1910	22 33 46.5	+52 27 26.1
35.1911	01 40 30.757	+50 26 15.92
45.1911	00 16 36.071	+58 51 41.93
87.1911	02 06 39.40	+56 57 10.0
21.1912	02 09 00.415	+56 51 16.4
28.1912	02 10 18.340	+58 08 52.41
10.1913	23 48 11.28	+60 37 57.8
12.1913	16 21 10.745	+86 19 22.67
13.1913	16 43 45.610	+86 31 58.37
19.1913	05 30 59.063	-01 11 23.03
19.1913	05 30 59.063	-01 11 23.03
23.1913	16 21 10.745	+86 19 22.67
32.1913	09 02 37.185	-32 10 47.60
46.1913	11 49 59.812	-61 14 45.12
49.1913	21 48 46.938	-42 36 28.98
26.1914	18 14 14.17	+41 05 35.2

AN

AN	α_{1950}	δ_{1950}
3.1915	15 37 12.527	+29 47 00.77
1.1916	05 21 16.94	+00 57 48.5
56.1916	20 54 43.193	+04 53 13.36
57.1916	05 42 10.19	+41 07 50.4
33.1917	17 11 43.180	+16 24 27.89
3.1918	06 29 11.433	+32 29 32.59
7.1918	18 46 21.470	+00 31 36.21
17.1918	22 51 22.571	+37 40 18.88
30.1919	11 34 48.49	+02 05 34.6
.1920		
.1921		
5.1922	20 56 13.18	+34 58 50.5

AN	α_{1950}	δ_{1950}
20.1923	16 42 05.994	+25 20 31.68
28.1923	18 14 58.75	+49 50 54.9
32.1923	22 06 29.85	−04 01 01.4
33.1923	12 30 32.35	+26 59 32.7
38.1923	20 39 35.	+25 24 36.
56.1924	18 08 33.31	−14 56 17.6
3.1925	21 27 48.59	−03 12 29.7
5.1925	00 30 38.86	+62 14 07.9
23.1925	18 49 28.03	−01 32 19.1
25.1926	14 58 46.73	+35 19 42.3
26.1926	14 02 44.13	+30 14 19.7
28.1926	11 10 45.689	−26 11 34.26
29.1926	18 05 24.786	+05 51 18.78
33.1926	19 52 39.05	+18 06 04.8
38.1926	15 06 16.77	+40 09 34.9
1.1927	21 32 56.33	+34 22 21.0
7.1927	23 03 06.84	+47 25 01.2
8.1927	23 09 08.593	+36 37 19.07
25.1928	19 49 58.	+19 26 54.
130.1928	19 49 52.	+38 59 30.
144.1928	06 13 51.13	+15 25 17.8
185.1928	19 36 42.040	+30 23 33.00
200.1928	19 52 44.103	+32 13 58.61
220.1928	06 22 55.79	+28 01 43.4
239.1928	09 27 00.	+21 36 42.
244.1928	23 20 26.39	+72 38 30.6
258.1928	02 21 51.	+71 04 30.
285.1928	07 28 27.	+06 05 00.
330.1928	18 42 44.149	+37 56 42.35
411.1928	05 33 03.747	−05 17 54.89
427.1928	06 30 36.832	+82 18 46.74
437.1928	20 35 23.125	+35 15 39.14
439.1928	22 30 50.559	+66 53 34.27
3.1929	11 58 29.742	+13 17 13.09
4.1929	12 11 47.877	+12 05 54.90
5.1929	12 32 35.53	+23 36 45.5
7.1929	12 47 10.	+18 58 30.
45.1929	05 08 50.595	−08 36 59.85
64.1929	07 39 26.765	−13 16 30.71
153.1929	07 44 10.	−12 49 36.
159.1929	17 47 46.91	+06 06 17.5
203.1929	18 32 41.78	+24 45 44.3
237.1929	18 50 40.36	+26 41 46.6
250.1929	18 56 49.	+30 11 30.
294.1929	19 31 40.070	+28 49 41.45
336.1929	20 13 37.930	+35 59 01.34
401.1929	08 58 14.34	+18 05 44.1
410.1929	22 43 20.184	+67 51 55.48
147.1930	20 22 39.93	+17 08 07.0
255.1930	03 10 07.368	+59 22 38.39
257.1930	04 03 23.893	+62 11 59.14
272.1930	08 22 18.	−16 14 36.
286.1930	12 05 02.	−12 52 48.
287.1930	12 35 34.10	−14 43 31.2
307.1930	18 51 21.765	+24 12 54.00
311.1930	19 51 50.368	+23 25 58.09
8.1931	01 26 42.	+19 21 24.
16.1931	03 07 24.89	−07 04 53.0
46.1931	07 04 07.75	−04 32 42.7
53.1931	07 10 22.20	−25 24 51.8
71.1931	08 39 36.	−06 33 00.
78.1931	09 24 17.66	−13 32 03.3
93.1931	22 20 30.	+16 04 48.
279.1931	19 11 07.	+02 13
317.1931	10 42 24.406	+45 49 45.79
327.1931	20 07 05.122	+30 24 10.57

AN	α_{1950}	δ_{1950}
328.1931	22 10 54.207	+08 10 38.36
337.1931	21 57 00.294	+47 44 36.86
342.1931	20 37 34.27	−01 02 56.8
345.1931	23 48 48.71	+60 01 29.2
397.1931	21 58 03.584	+44 18 41.90
9.1932	02 08 29.42	−63 32 47.8
11.1932	04 09 32.95	−71 25 28.9
39.1932	06 10 29.	+45 31 06.
155.1932	01 44 28.	−10 00 06.
156.1932	01 46 31.80	−21 08 26.7
158.1932	01 47 11.	−19 52 36.
168.1932	03 49 30.314	−10 40 39.05
169.1932	04 09 46.525	−10 35 43.58
195.1932	08 22 40.37	−28 39 56.0
200.1932	08 46 21.553	−25 58 39.08
232.1932	15 29 04.	−15 31 00.
258.1932	22 16 40.	−17 08 36.
261.1932	23 44 44.16	−08 21 45.3
8.1933	07 19 32.950	+28 36 03.87
32.1933	12 16 09.	+40 18 18.
61.1933	10 32 24.801	+08 54 33.57
77.1933	08 52 35.29	+11 31 12.0
90.1933	07 06 10.79	+00 46 35.9
152.1933	11 22 25.	−35 37 18.
399.1933	19 50 17.153	−14 43 57.84
523.1933	17 30 19.	−63 00 42.
745.1933	19 01 34.079	−02 06 18.37
752.1933	22 33 09.98	−00 57 03.3
798.1933	19 54 15.	+00 58
34.1934	20 35 42.	+50 06 00.
35.1934	23 10 50.577	+02 24 09.70
38.1934	04 03 28.216	+32 15 04.95
90.1934	19 51 04.475	+77 36 40.59
107.1934	08 04 02.833	+02 04 27.19
109.1934	08 11 37.	+00 39 30.
114.1934	23 29 43.239	+14 41 35.02
264.1934	02 01 26.	+23 45 42.
268.1934	02 12 31.699	+22 20 13.83
272.1934	04 09 45.	−06 09 12.
277.1934	05 38 45.	+02 35 00.
297.1934	06 33 26.	+07 54 18.
301.1934	06 43 24.	−00 13 42.
310.1934	07 37 37.	+04 00 00.
318.1934	07 51 29.	+03 46 48.
325.1934	08 00 00.4	+01 51 38.
334.1934	08 24 26.810	+03 40 50.83
350.1934	09 32 25.	+05 32 36.
356.1934	09 58 55.919	+17 39 03.97
357.1934	09 59 50.289	+17 17 17.18
358.1934	10 00 13.485	+01 20 11.57
363.1934	10 35 40.955	+14 31 39.89
364.1934	10 37 53.919	+13 49 41.65
431.1934	05 03 43.95	−04 12 03.6
452.1934	18 06 05.38	+45 51 02.4
1.1935	10 59 34.162	+10 09 53.23
16.1935	13 25 00.	+03 18 00.
17.1935	13 25 12.736	+04 07 58.81
18.1935	13 40 55.	+04 52 00.
19.1935	13 45 18.592	−00 20 44.98
21.1935	13 46 49.12	+20 26 16.0
26.1935	13 55 50.215	−01 25 04.50
29.1935	14 15 00.72	+12 47 57.0
48.1935	15 54 39.	+22 24 18.
65.1935	16 38 47.763	+00 36 08.38
80.1935	17 54 24.291	+04 59 30.82
82.1935	17 56 31.03	+13 29 59.8
104.1935	18 26 52.942	+10 51 28.93
115.1935	19 28 39.676	−02 12 59.60
119.1935	19 32 56.560	+05 43 38.20
129.1935	20 11 41.158	+26 35 53.27
137.1935	20 37 16.454	+14 15 05.69
143.1935	21 12 40.	+13 51 36.
150.1935	21 37 34.126	+08 57 26.46
159.1935	05 01 32.952	+41 13 13.94

AN

AN	α_{1950}	δ_{1950}
163.1935	19 10 37.590	+46 14 17.65
169.1935	08 52 23.	+06 17 36.
169.1935	20 16 53.877	+36 10 59.54
171.1935	20 27 11.48	+31 13 07.3
354.1935	14 09 45.	−40 07
621.1935	20 07 35.981	+10 12 05.66
623.1935	04 04 33.905	−27 48 06.36
634.1935	05 13 33.09	−28 48 26.8
642.1935	08 49 56.062	−27 17 41.72
643.1935	09 42 33.	−20 40 42.
661.1935	07 46 57.45	−23 26 25.2
696.1935	08 15 55.185	−41 33 05.63
697.1935	08 16 24.83	−34 46 25.4
698.1935	08 26 27.552	−38 48 19.21
700.1935	19 04 02.445	−30 14 19.32
715.1935	08 56 44.57	−41 36 09.8
773.1935	16 16 55.51	−54 46 13.9
53.1936	06 08 17.46	+31 29 36.6
61.1936	06 34 20.72	+00 04 52.9
92.1936	06 55 15.	−09 44 00.
371.1936	19 46 11.83	+15 29 44.8
499.1936	20 14 56.57	−03 49 11.9
538.1936	20 21 21.22	+39 00 02.3
569.1936	22 27 27.805	+64 59 11.40
610.1936	11 40 26.17	−62 09 26.2
616.1936	13 22 06.824	−59 31 16.74
617.1936	13 24 04.276	−61 36 52.54
640.1936	04 38 06.	+50 36 54.
900.1936	17 56 40.	−29 33 42.
2.1937	00 08 51.66	−11 45 25.3
193.1937	09 34 57.419	−59 45 39.57
197.1937	10 51 35.64	−59 11 18.7
220.1937	08 37 10.291	+19 10 39.16
422.1937	00 13 44.82	+56 04 07.1

AN	α_{1950}	δ_{1950}
424.1937	00 42 54.38	+62 48 45.5
462.1937	23 04 50.18	+50 14 16.4
5.1938	02 22 41.45	+27 52 21.3
17.1938	18 10 46.324	−21 04 25.46
28.1938	19 36 20.300	+35 44 34.78
100.1938	20 22 06.37	+33 42 16.6
22.1939	04 04 48.230	+51 06 52.70
65.1939	20 04 42.130	+35 35 44.25
66.1939	20 04 16.624	+35 14 29.31
67.1939	06 41 15.81	−01 58 08.85
26.1940	02 19 29.00	+60 36 12.5
43.1940	02 37 34.612	+60 20 23.07
105.1940	19 54 21.	+10 41 18.
122.1940	19 39 30.	+21 38 48.
.1941		
34.1942	14 33 17.76	−64 32 24.3
62.1942	22 06 56.98	−27 18 48.5
86.1942	08 09 52.037	−35 12 04.35
3.1943	00 45 59.	+56 36 36.
16.1943	01 07 05.425	+59 48 38.70
43.1943	02 22 25.963	+55 52 40.13
119.1943	07 28 58.61	−10 15 24.5
358.1943	19 49 30.7	+23 45 30.
7.1944	03 27 54.488	+49 02 24.24

Bayer	α_{1950}	δ_{1950}
α And	00 05 47.841	+28 48 52.12
γ^2 And B	02 00 49.974	+42 05 31.16
ζ And	00 44 40.968	+23 59 43.95
λ And	23 35 06.520	+46 11 13.83
ν And	00 47 02.830	+40 48 25.23
ξ And	01 19 23.103	+45 16 02.87
o And B	22 59 36.882	+42 03 25.50
π And	00 34 12.186	+33 26 39.75
Ant		
Aps		
Aqr		
θ Aql	20 08 43.494	−00 58 16.06
σ Aql	19 36 43.539	+05 16 56.69
ϕ Aql	19 53 52.132	+11 17 22.86
f Aql	19 17 52.724	−05 30 38.73
ν^1 Ara	17 46 24.124	−53 35 53.52
β Ari	01 51 52.340	+20 33 52.09
κ Ari	02 03 45.702	+22 24 39.13
π Ari A	02 46 29.840	+17 15 27.29

Bayer	α_{1950}	δ_{1950}
α Aur	05 12 59.466	+45 56 58.04
β Aur	05 55 51.579	+44 56 40.69
η Aur	05 03 00.214	+41 10 08.38
ρ Aur	05 18 15.839	+41 45 24.49
ξ Boo	14 49 04.800	+19 18 24.60
A Boo	14 15 52.952	+35 44 21.87
d Boo	14 08 07.066	+25 19 39.84
i Boo B	15 02 08.190	+47 50 53.10
Cae		
α Cam	04 49 03.825	+66 15 38.64
κ Cnc	09 05 02.414	+10 52 14.13
CVn		
ζ CMa	06 18 23.546	−30 02 23.86
r CMa	07 16 38.031	−24 51 42.75
d CMa	07 16 38.031	−24 51 42.75
k^1 CMa	*07 27 09.049*	*−31 21 06.77*
β CMi	07 24 26.357	+08 23 29.89

Bayer/Lacaille

Bayer	α_{1950}	δ_{1950}
β Cap B	20 18 12.200	−14 56 26.57
δ Cap	21 44 16.993	−16 21 18.42
d^1 Cap	21 38 49.847	−14 16 17.57
θ Car	10 41 10.052	−64 07 55.36
L Car	10 21 29.101	−66 38 53.18
a Car	09 09 39.120	−58 45 41.26
d Car	08 39 30.824	−59 34 55.29
β Cas	00 06 29.735	+58 52 26.77
η Cas	00 46 03.907	+57 33 02.76
o Cas	00 41 55.654	+48 00 40.00
π Cas	00 40 41.378	+46 45 04.98
ζ Cen	13 52 24.510	−47 02 34.87
ν Cen	13 46 29.739	−41 26 21.52
ξ^2 Cen	13 03 58.753	−49 38 19.89
h Cen	13 50 19.415	−31 40 53.33
i Cen	13 42 50.314	−32 47 29.86
S^2 Cen	13 09 09.247	−59 39 17.43
β Cep	21 28 01.326	+70 20 27.85
δ Cep C	22 27 17.496	+58 08 51.88
Cet		
ζ Cha	09 35 25.599	−80 43 01.70

Bayer	α_{1950}	δ_{1950}
δ Cir	15 12 53.078	−60 46 24.48
δ Col	06 20 17.110	−33 24 35.76
λ Col	05 51 17.886	−33 48 40.66
Com		
ϵ CrA	18 55 21.086	−37 10 27.98
α CrB	15 32 34.145	+26 52 54.75
δ CrB	15 47 29.713	+26 13 13.16
ζ^2 CrB	15 37 29.590	+36 47 49.58
ι CrB	15 59 26.291	+29 59 23.49
σ^2 CrB A	16 12 48.252	+33 59 02.62
α^1 Cru	12 23 48.064	−62 49 19.43
α^2 Cru	12 23 48.870	−62 49 21.48
β^1 Cru	12 00 27.869	−63 02 04.11
β^2 Cru	12 01 43.859	−62 53 14.26
α Cyg	20 39 43.539	+45 06 03.12
ξ Cyg	21 03 06.589	+43 43 39.33
π^1 Cyg	21 40 18.925	+50 57 39.10
π^2 Cyg	21 44 56.560	+49 04 39.35
σ Cyg	21 15 26.951	+39 11 03.50
A Cyg	21 16 35.137	+43 44 05.12
f^1 Cyg	20 58 07.395	+47 19 30.08
l Cyg	20 31 57.382	+35 04 43.09

Bayer	α_{1950}	δ_{1950}
ι Del	20 35 25.553	+11 12 07.03
γ Dor	04 14 42.867	−51 36 42.99
G Dor	05 32 43.056	−64 15 37.10
α Dra	14 03 01.963	+64 36 51.57
θ Dra	16 00 56.829	+58 41 53.69
κ Dra	12 31 21.550	+70 03 48.96
ϕ Dra	18 21 28.502	+71 18 42.09
ω Dra	17 37 14.348	+68 46 52.48
c Dra	18 41 39.774	+55 29 17.40
ϵ Equ	20 56 34.570	+04 06 02.09
δ Eri	03 40 51.035	−09 55 53.05
ϵ Eri	03 30 34.355	−09 37 34.76
ζ Eri	03 13 24.143	−09 00 15.50
μ Eri	04 42 59.993	−03 20 41.33
τ^3 Eri	03 31 34.657	−21 47 57.95
τ^9 Eri	03 57 47.488	−24 09 24.93
υ^4 Eri	04 16 00.050	−33 55 09.54
k Eri	03 57 47.488	−24 09 24.93
X Eri	04 16 00.050	−33 55 09.54
For		

Bayer	α_{1950}	δ_{1950}
α^1 Gem	07 31 24.635	+31 59 57.61
α^2 Gem	07 31 24.673	+32 00 00.53
γ Gem	06 34 49.396	+16 26 37.40
σ Gem	07 40 11.374	+29 00 22.23
H Gem B	06 01 04.774	+23 16 04.51
p Gem	07 24 46.351	+21 32 56.88
ι Gru	23 07 32.182	−45 31 04.35
β Her	16 28 04.105	+21 35 50.16
γ Her	16 19 42.738	+19 16 09.32
ϵ Her	16 58 22.471	+30 59 55.92
ι Her	17 38 03.064	+46 01 55.28
h Her	17 29 55.112	+11 57 53.52
o Her	16 21 44.526	+07 03 44.55
u Her	17 15 28.612	+33 09 10.07
ζ Hor	02 39 06.229	−54 45 48.15
ϵ Hya C	08 44 07.508	+06 36 11.91
ρ Hya	08 45 47.114	+06 01 24.82
υ^2 Hya	10 02 41.299	−12 49 17.50
χ^2 Hya	11 03 31.885	−27 01 02.10
Hyi		

Bayer/Lacaille

Bayer	α_{1950}	δ_{1950}
κ^1 Ind	21 54 59.023	−59 15 05.97
Lac		
ν Leo	09 55 32.100	+12 41 03.03
o Leo	09 38 29.008	+10 07 14.64
o Leo	11 53 06.284	+15 55 30.08
LMi		
Lep		
δ Lib	14 58 17.808	−08 19 18.19
ϵ Lib	15 21 29.019	−10 08 37.91
ζ^4 Lib	15 30 05.440	−16 41 04.98
λ Lib	15 50 25.602	−20 01 08.70
τ Lib	15 35 34.729	−29 36 53.36
γ Lup	15 31 47.980	−41 00 00.69
δ Lup	15 18 04.851	−40 28 04.92
ϵ Lup	15 19 16.541	−44 30 40.82
χ Lup	15 47 46.468	−33 28 35.36
ψ^2 Lup	15 39 29.420	−34 33 05.08
e Lup	15 09 27.473	−44 18 46.87

Bayer	α_{1950}	δ_{1950}
Lyn		
β Lyr	18 48 13.936	+33 18 12.51
δ^1 Lyr	18 51 58.664	+36 54 29.44
ζ^1 Lyr	18 43 02.931	+37 33 06.40
η Lyr	19 12 03.285	+39 03 32.22
ι Men	05 38 39.383	−78 50 55.65
Mic		
ϵ Mon A	06 21 07.050	+04 37 11.68
η Mus	13 11 49.986	−67 37 48.79
θ Mus	13 04 52.075	−65 02 21.47
ϵ Nor	16 23 30.524	−47 26 33.93
α Oct	20 58 44.041	−77 13 01.18

Bayer	α_{1950}	δ_{1950}
α Oph B	17 32 36.697	+12 35 41.94
θ Oph	17 18 56.157	−24 57 05.20
χ Oph	16 24 07.298	−18 20 40.08
υ Oph	16 25 05.689	−08 15 41.15
δ Ori	05 29 27.017	−00 20 04.41
δ Ori C	05 29 26.996	−00 19 11.93
ϵ Ori	05 33 40.476	−01 13 56.30
ζ Ori A	05 38 14.044	−01 58 03.05
η Ori	05 21 57.674	−02 26 29.65
θ^1 Ori A	05 32 48.356	−05 25 07.95
θ^1 Ori B	05 32 48.669	−05 25 00.57
θ^2 Ori A	05 32 55.469	−05 26 50.89
ι Ori	05 32 59.126	−05 56 28.26
μ Ori A	05 59 37.854	+09 38 56.35
μ Ori B	05 59 37.852	+09 38 56.27
ν Ori	06 04 42.949	+14 46 34.32
ξ Ori	06 09 05.753	+14 13 18.68
π^4 Ori	04 48 32.421	+05 31 16.34
π^5 Ori	04 51 38.661	+02 21 37.24
σ Ori E	05 36 16.398	−02 37 17.58
χ^2 Ori	05 51 58.976	+19 44 29.91
χ^4 Ori A	06 00 29.692	+19 41 35.51
ψ^2 Ori	05 24 12.930	+03 03 14.26
A Ori	05 28 06.416	+05 54 41.79
c^1 Ori	05 32 55.034	−04 52 10.86
f^1 Ori	06 09 10.198	+16 08 37.04
h Ori	05 06 34.444	+09 46 01.19
z Ori	04 51 38.661	+02 21 37.24
α Pav	20 21 42.289	−56 53 50.02
γ Peg	00 10 39.447	+14 54 20.57
ι Peg	22 04 40.836	+25 06 00.71
κ Peg B	21 42 22.714	+25 24 51.41
s Peg	23 35 25.105	+18 07 24.38

Bayer	α_{1950}	δ_{1950}
β Per	03 04 54.356	+40 45 52.46
ϵ Per	03 54 29.432	+39 52 02.54
ζ Per	03 50 58.959	+31 44 12.55
ξ Per	03 55 42.825	+35 38 56.50
o Per	03 41 10.603	+32 07 53.49
ϕ Per	01 40 30.757	+50 26 15.92
A Per	03 52 52.755	+50 33 09.32
b^1 Per	04 14 28.414	+50 10 29.09
c Per	04 05 01.311	+47 34 51.78
g Per	01 48 57.679	+50 32 47.91
n Per	03 46 22.636	+32 56 23.13
ζ Phe	01 06 17.251	−55 30 45.72
δ Pic	06 09 19.403	−54 57 24.59
ζ Psc B	01 11 08.335	+07 18 52.03
σ^1 Psc	01 00 04.351	+31 32 10.53
ω Psc	23 56 44.494	+06 35 11.41
ϕ Psc B	01 11 01.311	+24 19 04.65
PsA		
b Pup	07 50 52.396	−38 43 56.79
m Pup	07 36 13.100	−25 15 00.39
ν^2 Pup	07 16 51.450	−36 39 00.62

Bayer/Lacaille

Bayer	α_{1950}	δ_{1950}
Pyx		
Ret		
Sge		
θ^1 Sgr	19 56 29.133	−35 24 47.51
μ^1 Sgr	18 10 46.324	−21 04 25.46
υ Sgr	19 18 51.834	−16 03 01.82
ψ Sgr	19 12 28.524	−25 20 40.36
h^1 Sgr	19 32 59.586	−24 49 48.90
K^1 Sgr	19 56 29.133	−35 24 47.51
β^1 Sco	16 02 31.507	−19 40 12.45
δ Sco A	15 57 22.318	−22 28 51.37
λ Sco	17 30 12.626	−37 04 09.63
μ^1 Sco	16 48 28.679	−37 57 48.92
ν Sco	16 09 05.107	−19 19 56.51
π Sco	15 55 49.301	−25 58 18.14
ρ Sco	15 53 47.482	−29 04 10.92
σ Sco	16 18 08.667	−25 28 28.14
c^2 Sco	16 09 13.090	−27 47 53.94
o Sco	15 35 34.729	−29 36 53.36
Scl		

Bayer	α_{1950}	δ_{1950}
Sct		
ξ Ser	17 34 43.274	−15 22 07.81
o Ser	17 38 36.137	−12 51 01.22
A^2 Ser	15 43 30.273	−01 38 56.03
c Ser	18 27 04.776	−02 01 09.27
d Ser	18 24 38.902	+00 09 53.73
Sex		
ζ Tau	05 34 39.263	+21 06 50.00
η Tau	03 44 30.424	+23 57 07.57
θ^2 Tau	04 25 48.214	+15 45 41.88
λ Tau	03 57 54.378	+12 21 02.13
ξ Tau	03 24 27.329	+09 33 35.17
τ Tau	04 39 14.403	+22 51 46.00
d Tau	04 32 54.244	+10 03 35.07
u^1 Tau	03 43 00.821	+05 53 41.52
δ^1 Tel	18 28 03.240	−45 57 02.52
δ^2 Tel	18 28 20.113	−45 47 37.72
α Tri	01 50 13.440	+29 20 10.14
β Tri	02 06 33.579	+34 45 06.52
δ Tri	02 13 59.587	+33 59 47.81
ι Tri A	02 09 27.778	+30 04 10.44
ι Tri B	02 09 27.868	+30 04 14.14
ζ TrA	16 23 03.880	−69 58 28.74

Bayer/Lacaille

Bayer	α_{1950}	δ_{1950}
ρ Tuc	00 40 20.698	−65 44 32.93
ζ^1 UMa	13 21 54.916	+55 11 09.46
μ UMa	10 19 21.469	+41 45 06.25
ξ UMa B	11 15 31.120	+31 48 37.87
ω UMa	10 51 06.527	+43 27 23.92
c UMa	09 10 24.611	+61 37 51.35
d UMa	09 30 05.838	+70 03 06.47
f UMa	09 05 21.304	+51 48 28.45
ϵ UMi	16 51 00.905	+82 07 21.54
γ^1 Vel	08 07 56.860	−47 11 49.46
γ^2 Vel	08 07 59.465	−47 11 18.31
κ Vel	09 20 33.853	−54 47 47.30
o Vel	08 38 51.636	−52 44 37.11
f Vel	08 48 51.625	−46 20 29.20
p Vel	10 35 11.747	−47 57 55.48
A Vel	08 27 29.901	−47 45 40.37
H Vel	08 54 48.708	−52 31 50.25
α Vir	13 22 33.301	−10 54 03.36
λ Vir	14 16 23.969	−13 08 30.89
ϵ Vol	08 07 46.613	−68 28 12.53

Bayer	α_{1950}	δ_{1950}
Vul		

BD

BD	α_{1950}	δ_{1950}
+89°		
+88°		
+87°		
+86° 244	16 21 10.745	+86 19 22.67
+86° 252	16 43 45.610	+86 31 58.37
+85°		
+84° 286	12 38 26.304	+83 55 05.57
+84° 289	12 48 38.683	+83 41 22.40
+83°		
+82° 174	06 30 36.832	+82 18 46.74
+82° 498	16 51 00.905	+82 07 21.54
+82° 674	22 00 13.572	+82 37 51.47

BD	α_{1950}	δ_{1950}
+81° 25	00 57 44.960	+81 36 24.67
+80° 97	03 03 48.046	+81 16 50.48
+79° 570	18 03 47.520	+79 59 48.27
+78° 71	02 06 41.399	+79 27 28.93
+78° 79	02 16 35.776	+78 40 55.14
+78° 412	12 09 52.843	+77 53 38.20
+78° 826	23 17 50.188	+78 43 43.62
+77°		
+76° 790	20 17 16.981	+76 39 10.91
+75° 342	08 31 02.587	+74 53 49.46
+75° 608	16 54 27.262	+75 28 20.36
+75° 682	18 47 59.715	+75 22 33.84
+75° 752	20 38 02.972	+75 24 57.96
+74° 27	00 42 18.429	+74 42 54.68
+74° 29	00 44 23.261	+74 34 30.08
+74°1047	23 49 57.039	+75 15 57.16

BD

BD	α_{1950}	δ_{1950}
+73° 549	12 13 21.404	+72 49 45.35
+72° 227	04 27 40.895	+72 25 26.83
+71° 889	18 21 28.502	+71 18 42.09
+70° 565	09 30 05.838	+70 03 06.47
+70° 567	09 32 20.399	+69 51 40.75
+70° 700 B	12 27 55.874	+69 28 40.81
+70° 703	12 31 21.550	+70 03 48.96
+70° 751	13 37 38.72	+70 03 22.6
+70°1183	21 30 21.043	+70 36 07.09
+69° 179	02 44 22.790	+69 25 33.10
+69° 389	06 41 58.360	+69 40 59.44
+69° 645	12 04 38.357	+69 21 14.88
+69°1173	21 28 01.326	+70 20 27.85
+68° 947	17 36 56.075	+68 24 36.07
+68° 949	17 37 14.348	+68 46 52.48
+67° 224	02 40 29.543	+67 36 50.37
+67°1463	22 43 20.184	+67 51 55.48
+67°1485	22 55 59.145	+68 08 22.09

BD

BD	α_{1950}	δ_{1950}
+66° 358	04 49 03.825	+66 15 38.64
+66° 664	10 20 33.038	+65 49 12.47
+66°1441	21 47 58.623	+66 33 33.04
+66°1521	22 30 50.559	+66 53 34.27
+65° 289	02 41 44.344	+65 30 58.93
+65° 978	14 03 01.963	+64 36 51.57
+65°1691	21 55 54.364	+65 55 02.03
+64°1017	14 37 56.367	+64 30 23.09
+64°1077	15 33 07.055	+64 04 22.39
+64°1527	21 18 19.996	+64 39 34.13
+64°1717	22 46 03.889	+64 47 52.45
+63°1167	15 06 52.873	+63 18 26.92
+62° 480	02 48 14.963	+62 34 39.82
+62°1058	09 10 24.611	+61 37 51.35
+62°1160	11 00 17.684	+61 55 28.35
+62°1393	15 10 50.660	+62 02 32.88
+62°1889	21 03 05.034	+63 10 47.34
+62°2147	22 56 41.180	+62 48 32.58
+62°2152	22 57 43.186	+62 30 32.18
+62°2155	22 58 54.434	+62 36 47.06
+62°2161	23 01 01.330	+63 25 43.62
+62°2163	23 02 01.066	+63 07 37.84
+62°2332	23 54 37.99	+62 43 40.0
+62°2363	00 03 26.837	+63 24 05.25
+61° 277	01 27 12.654	+62 28 03.12
+61° 676 B	04 03 23.893	+62 11 59.14
+61°2000	20 18 46.789	+62 05 53.62
+61°2216	21 52 21.867	+62 22 39.81
+61°2361	22 51 18.386	+61 52 46.53

BD	α_{1950}	δ_{1950}
+61°2364	22 51 57.212	+62 19 49.22
+61°2372	22 54 44.244	+62 21 26.84
+61°2384	23 00 04.241	+62 14 34.90
+61°2413	23 14 17.395	+61 41 23.90
+60° 25	00 15 34.860	+61 26 58.48
+60° 169	01 05 50.90	+61 12 16.2
+60° 193 A	01 11 34.092	+60 40 30.80
+60° 246	01 26 16.047	+60 42 36.07
+60° 470	02 19 29.00	+60 36 12.5
+60° 472	02 21 54.217	+61 19 28.35
+60° 502	02 28 54.018	+61 14 08.89
+60°1274	10 35 04.695	+60 23 14.87
+60°2521	23 17 48.400	+60 52 33.72
+60°2629	23 48 11.28	+60 37 57.8
+59° 146	00 53 45.153	+60 05 33.50
+59° 529	02 37 34.612	+60 20 23.07
+59° 607	03 08 36.873	+59 43 56.04
+59° 609	03 10 07.368	+59 22 38.39
+59° 920	05 50 28.973	+59 52 47.21
+59°2765	23 43 10.92	+59 37 42.6
+58° 3	00 06 29.735	+58 52 26.77
+58° 30	00 16 36.071	+58 51 41.93
+58° 331	01 52 15.745	+59 01 44.03
+58°1608	16 00 56.829	+58 41 53.69
+58°2249	21 17 52.610	+58 24 41.39
+58°2546	23 05 03.149	+59 27 24.27
+57° 150	00 46 03.907	+57 33 02.76
+57° 525	02 12 07.482	+57 31 52.18
+57° 527	02 12 32.399	+57 30 47.09
+57° 651	02 47 59.551	+58 06 32.59
+57°1290	10 42 52.674	+57 11 02.14

BD

BD	α_{1950}	δ_{1950}
+57°1758	17 22 30.540	+57 03 22.66
+57°1942	19 02 46.279	+57 22 52.44
+57°2309	21 15 56.356	+58 24 03.42
+57°2441	22 00 23.540	+57 45 30.82
+57°2547	22 27 17.496	+58 08 51.88
+57°2607	22 44 54.272	+57 49 13.60
+57°2611	22 45 19.108	+58 13 30.10
+57°2748	23 27 42.766	+58 16 23.18
+57°2865	00 03 37.946	+58 09 29.61
+56° 406a	01 58 29.305	+56 29 36.80
+56° 686	02 37 32.967	+56 31 00.34
+56°1125	06 22 12.642	+56 18 51.33
+56°1395	09 34 34.79	+56 14 38.5
+56°1400	09 40 15.413	+56 10 56.29
+56°2080	18 13 48.337	+56 34 13.96
+56°2190	19 04 08.645	+57 02 50.63
+56°2617	21 37 24.390	+57 15 44.56
+56°2640	21 44 45.358	+56 41 07.57
+56°2642	21 45 04.16	+57 03 42.0
+56°2818	22 34 56.770	+56 38 45.88
+56°2885	22 49 26.31	+56 44 23.0
+56°3115	23 53 02.700	+57 08 02.20
+55° 564	02 14 16.084	+56 24 38.60
+55° 616	02 22 25.963	+55 52 40.13
+55°1192	07 18 47.691	+55 22 40.73
+55°1317	09 06 18.413	+54 41 39.96
+55°1598	13 21 54.916	+55 11 09.46
+55°2107	18 41 39.774	+55 29 17.40
+55°2639	21 50 19.323	+55 33 40.38
+55°2721 A	22 16 54.536	+55 52 29.89
+55°2721 B	22 16 54.536	+55 52 29.89
+55°2756	22 27 02.414	+56 20 49.40
+54° 396	01 48 41.291	+54 54 02.85
+54° 441	01 59 07.466	+55 23 00.78
+54°1556	12 54 06.309	+54 22 10.96
+54°2193	19 37 33.728	+54 51 21.44
+54°2255	19 55 47.054	+54 39 50.45

BD	α_{1950}	δ_{1950}
+54°2489	21 09 32.920	+55 07 36.53
+54°2726	22 14 52.754	+55 13 37.53
+54°2745	22 19 16.829	+55 17 55.60
+54°2790	22 28 08.372	+54 31 59.60
+54°3076	23 54 36.576	+55 25 39.25
+53° 323	01 28 56.492	+53 45 43.33
+53° 507	02 17 45.610	+54 16 54.43
+53° 718	03 54 45.698	+53 50 46.90
+53° 829	04 53 16.202	+53 40 27.79
+53°1008	06 17 42.423	+53 28 28.35
+53°2837	22 15 13.201	+53 57 31.96
+53°2885	22 25 10.423	+53 55 34.44
+52° 826	04 24 18.46	+52 56 07.8
+52°1365	09 05 21.304	+51 48 28.45
+52°2009	16 55 08.726	+52 46 31.80
+52°2280	18 45 35.976	+52 55 56.41
+52°2426	19 24 55.820	+52 20 47.70
+52°2777	20 39 54.358	+52 24 29.00
+52°3383a	23 08 55.444	+52 45 15.93
+51° 62	00 21 33.308	+51 44 34.74
+51° 133	00 39 48.850	+52 03 48.22
+51°1585	10 10 33.128	+50 44 39.95
+51°2402	18 32 44.674	+51 40 59.90
+50° 46	00 15 03.362	+51 09 19.72
+50° 379	01 48 57.679	+50 32 47.91
+50° 860	03 52 52.755	+50 33 09.32
+50°3410	21 40 18.925	+50 57 39.10
+49° 444	01 40 30.757	+50 26 15.92
+49° 666	02 24 29.671	+50 20 51.62
+49° 899	03 15 03.309	+50 02 26.55
+49°1150	04 14 28.414	+50 10 29.09
+49°2326 B	14 47 59.571	+48 55 35.48

BD

BD	α_{1950}	δ_{1950}
+49°2871	18 46 12.064	+49 22 32.22
+49°3903	22 33 48.436	+49 48 41.23
+49°4045	23 04 51.062	+49 55 18.26
+48° 162	00 30 07.26	+49 03 06.6
+48° 920	03 24 29.041	+48 53 24.91
+48° 938	03 27 54.488	+49 02 24.24
+48°1958 A	11 34 42.34	+47 44 23.8
+48°2259 B	15 02 08.190	+47 50 53.10
+48°3289	21 05 58.573	+48 39 11.34
+48°3504	21 44 56.560	+49 04 39.35
+48°3747	22 28 02.776	+49 06 00.43
+47° 145	00 33 30.247	+48 16 50.29
+47° 183	00 41 55.654	+48 00 40.00
+47° 692	02 42 19.639	+47 56 01.86
+47° 831	03 24 24.530	+47 33 47.66
+47° 920	03 56 06.773	+48 00 36.22
+47° 939	04 05 01.311	+47 34 51.78
+47°1658	09 14 10.453	+47 01 37.03
+47°1913	11 52 29.996	+46 45 18.12
+47°2537	17 45 47.382	+47 37 42.95
+47°2625	18 20 50.701	+47 32 32.22
+47°3045	20 10 31.573	+47 35 10.07
+47°3639	21 57 00.294	+47 44 36.86
+47°3692	22 03 53.289	+47 59 15.34
+47°4058	23 07 39.187	+47 41 13.25
+46° 146	00 40 41.378	+46 45 04.98
+46° 215	00 55 51.685	+46 46 01.03
+46° 355	01 23 29.960	+46 49 55.75
+46° 985	05 11 47.306	+46 21 00.58
+46°1659	10 42 24.406	+45 49 45.79
+46°2004	14 54 43.31	+46 33 46.6
+46°2349	17 38 03.064	+46 01 55.28
+46°2641	19 10 37.590	+46 14 17.65
+46°2793	19 50 28.606	+46 53 51.46
+46°3133	20 58 07.395	+47 19 30.08

BD

BD	α_{1950}	δ_{1950}
+46°3191	21 05 39.353	+47 04 30.65
+46°3929	23 03 06.84	+47 25 01.2
+45°1077	05 12 59.466	+45 56 58.04
+45°1570	08 19 29.490	+45 37 04.05
+45°2233	14 52 37.580	+45 30 00.71
+45°2643	17 59 41.017	+45 21 00.49
+45°3139	20 17 13.390	+46 09 52.89
+45°3364	20 59 26.089	+45 57 31.22
+45°3384	21 02 08.677	+46 07 52.41
+45°3813	22 06 39.437	+45 29 45.72
+45°3894	22 18 57.330	+46 17 03.55
+45°4147	23 05 00.316	+45 47 51.23
+45°4283	23 35 06.520	+46 11 13.83
+45°4381	23 56 13.367	+46 08 05.56
+44° 287	01 19 23.103	+45 16 02.87
+44°1328	05 55 51.579	+44 56 40.69
+44°3505	20 31 58.405	+45 00 11.99
+44°3541	20 39 43.539	+45 06 03.12
+44°3639	20 54 48.837	+44 43 53.95
+43° 92	00 25 31.854	+44 07 05.34
+43° 740a	03 27 47.529	+43 44 04.67
+43°1020	04 33 34.82	+44 06 39.6
+43°1355	05 44 51.095	+43 03 59.45
+43°1754	07 55 05.688	+43 38 23.87
+43°2058	10 51 06.527	+43 27 23.92
+43°3571	20 18 46.706	+43 41 42.90
+43°3755	20 51 28.521	+44 11 49.78
+43°3800	21 03 06.589	+43 43 39.33
+43°3877	21 16 35.137	+43 44 05.12
+43°4106	21 58 03.584	+44 18 41.90

BD	α_{1950}	δ_{1950}
+42°1376	05 38 43.987	+43 02 09.84
+42°1811	08 04 16.873	+41 56 47.10
+42°2115	10 19 21.469	+41 45 06.25
+42°2214 A	11 28 07.900	+41 33 50.35
+42°3543	19 56 11.328	+43 11 40.30
+42°3778	20 31 07.830	+43 01 13.37
+42°4189a	21 40 44.402	+43 21 23.31
+41° 395	02 00 49.974	+42 05 31.16
+41°1051	05 01 32.952	+41 13 13.94
+41°1058	05 03 00.214	+41 10 08.38
+41°1101	05 08 10.174	+42 06 18.30
+41°1162	05 18 15.839	+41 45 24.49
+41°1265	05 42 10.19	+41 07 50.4
+41°2033	09 54 37.760	+41 17 40.83
+41°2447	13 57 02.939	+41 03 41.76
+41°3021	18 14 14.17	+41 05 35.2
+41°3232	19 04 39.741	+41 20 07.47
+41°3353	19 25 57.738	+41 35 55.19
+41°3949	20 56 39.840	+41 44 42.75
+41°4623	22 48 06.137	+41 41 17.91
+41°4664 B	22 59 36.882	+42 03 25.50
+40° 171	00 47 02.830	+40 48 25.23
+40° 407	01 54 53.749	+41 27 05.29
+40° 442	02 05 59.297	+40 33 28.73
+40° 501	02 19 46.515	+41 15 10.44
+40° 673	03 04 54.356	+40 45 52.46
+40° 883	20 58 08.601	+39 52 39.58
+40°2197	09 19 17.443	+40 25 11.74
+40°2226	09 32 15.317	+40 11 12.01
+40°2570	12 42 37.629	+39 33 00.75
+40°2857	15 06 16.77	+40 09 34.9
+40°3136	17 20 05.060	+40 01 22.05
+40°3902	19 48 54.286	+40 28 17.88
+40°4115	20 17 35.404	+40 43 47.71
+40°4220	20 30 34.848	+41 08 04.04
+40°4615	21 40 22.030	+40 50 52.85

BD

BD	α_{1950}	δ_{1950}
+40°4949	22 54 06.327	+41 20 11.95
+40°5043	23 16 00.611	+41 30 01.40
+39° 59	00 17 52.099	+39 56 57.05
+39° 582	02 34 12.057	+39 40 47.31
+39° 784	03 23 07.509	+40 17 02.83
+39° 811	03 30 16.731	+39 43 57.63
+39° 895	03 54 29.432	+39 52 02.54
+39°1192	05 06 14.762	+39 31 25.41
+39°4529	21 19 04.079	+40 08 05.80
+38°1377	06 03 08.245	+38 29 20.96
+38°1992	09 00 13.775	+38 17 47.88
+38°2166	10 36 16.459	+38 10 16.49
+38°2225	11 16 24.722	+38 27 36.38
+38°3373	18 56 19.140	+38 11 50.84
+38°3441	19 06 05.367	+38 50 52.85
+38°3490	19 12 03.285	+39 03 32.22
+38°4010	20 17 42.595	+38 34 24.27
+38°4054	20 21 21.22	+39 00 02.3
+38°4262	20 51 12.122	+38 38 16.09
+38°4343	21 04 39.935 cg	+38 29 59.10 cg
+38°4431	21 15 26.951	+39 11 03.50
+37° 878	04 04 13.992	+37 56 41.15
+37°2004	09 31 09.969	+36 37 14.38
+37°2356	13 00 56.027	+36 53 06.23
+37°2426	13 32 33.917	+37 26 16.62
+37°2665	15 37 29.590	+36 47 49.58
+37°3222	18 43 02.931	+37 33 06.40
+37°3413	19 17 15.486	+37 21 07.30
+37°3821	20 10 17.128	+38 12 15.05
+37°3881	20 17 16.236	+37 36 41.93
+37°3890	20 17 48.291	+38 10 39.06

BD

BD	α_{1950}	δ_{1950}
+37°4076	20 49 35.426	+37 48 03.70
+37°4717	22 51 22.571	+37 40 18.88
+36° 237	01 20 48.441	+37 27 16.30
+36°1073	05 14 58.535	+36 34 47.04
+36°1233	05 39 08.717	+36 10 36.86
+36°1979	09 32 39.994	+36 02 14.94
+36°2322	12 55 19.20	+35 29 49.5
+36°2468	14 15 52.952	+35 44 21.87
+36°2509	14 35 05.785	+36 08 45.77
+36°3307	18 51 58.664	+36 54 29.44
+36°3557	19 24 20.981	+36 12 59.47
+36°3806	19 58 05.074	+36 54 16.84
+36°3900	20 06 54.984	+37 05 23.35
+36°3956	20 12 39.405	+36 30 28.15
+36°3987	20 15 08.535	+37 16 03.40
+36°3991	20 15 37.961	+37 09 09.05
+36°4028	20 19 38.906	+36 45 36.52
+36°4568	21 25 18.865	+36 53 54.87
+36°4898	22 36 48.620	+37 06 53.25
+36°5017	23 09 08.593	+36 37 19.07
+35° 775	03 55 42.825	+35 38 56.50
+35°1137	05 26 21.969	+35 20 10.96
+35°1345	06 05 08.698	+35 08 56.35
+35°3953	20 04 04.633	+35 38 38.28
+35°3964	20 04 42.130	+35 35 44.25
+35°3970	20 05 30.742	+35 34 20.72
+35°3994	20 07 20.809	+35 20 10.51
+35°4001	20 08 21.611	+36 01 39.80
+35°4038	20 13 37.930	+35 59 01.34
+35°4062	20 16 53.877	+36 10 59.54
+35°4496	21 19 20.496	+35 31 22.15

BD	α_{1950}	δ_{1950}
+34° 106	00 40 04.69	+35 16 25.1
+34° 381	02 06 33.579	+34 45 06.52
+34° 610	03 12 53.372	+34 30 18.42
+34°1051	05 24 32.790	+34 44 31.22
+34°2731	16 02 19.537	+34 18 51.32
+34°2750 A	16 12 48.252	+33 59 02.62
+34°2971	17 24 58.263	+34 44 11.51
+34°3815	19 56 28.879	+35 03 54.77
+34°3871	20 04 16.624	+35 14 29.31
+34°4079	20 31 57.382	+35 04 43.09
+34°4095	20 35 23.125	+35 15 39.14
+34°4184	20 50 03.571	+34 28 07.77
+34°4217	20 56 13.18	+34 58 50.5
+33° 395	02 13 59.587	+33 59 47.81
+33° 717	03 44 41.964	+33 26 48.35
+33° 785	04 03 43.447	+33 18 46.44
+33°1002	05 15 01.293	+33 42 55.62
+33°2574	15 17 28.967	+32 41 42.37
+33°2864	17 15 28.612	+33 09 10.07
+33°2930	17 37 46.12	+32 58 18.2
+33°3223	18 48 13.936	+33 18 12.51
+33°3224	18 48 15.823	+33 17 33.39
+33°3602	19 46 56.044	+33 18 40.04
+33°4252	21 22 54.511	+33 28 17.54
+33°4304	21 32 56.33	+34 22 21.0
+32° 101	00 34 12.186	+33 26 39.75
+32° 667	03 46 22.636	+32 56 23.13
+32° 840	04 46 04.700	+32 30 08.81
+32° 922	05 12 08.799	+32 37 54.05
+32°1324	06 29 11.433	+32 29 32.59
+32°1581	07 31 24.635	+31 59 57.61
+32°1581	07 31 24.673	+32 00 00.53
+32°1582	07 31 26.235	+31 58 50.36
+32°2132	11 15 31.120	+31 48 37.87
+32°2569	15 16 08.916	+31 49 43.37

BD

BD	α_{1950}	δ_{1950}
+32°3326	19 05 31.990	+32 25 18.48
+32°4134	21 19 15.420	+32 23 58.16
+31° 168	01 00 04.351	+31 32 10.53
+31° 197	01 10 06.406	+31 48 38.37
+31° 616	03 31 53.836	+31 51 04.16
+31° 642	03 41 10.603	+32 07 53.49
+31° 666	03 50 58.959	+31 44 12.55
+31° 703	04 03 28.216	+32 15 04.95
+31°2397	12 38 40.927	+30 42 39.76
+31°2540	13 43 58.759	+31 08 52.49
+31°2947	16 58 22.471	+30 59 55.92
+31°3932	20 03 29.484	+31 49 40.28
+31°4126	20 31 03.680	+31 29 08.84
+31°4901	23 21 19.723	+32 15 22.09
+30° 55	00 22 01.773	+31 05 46.92
+30° 448	02 45 42.348	+30 54 36.28
+30° 923a	05 28 46.48	+30 24 35.7
+30°2163	11 27 25.619	+30 14 35.79
+30°2281	12 27 00.892	+29 47 20.00
+30°2688	15 37 12.527	+29 47 00.77
+30°2738	15 59 26.291	+29 59 23.49
+30°2834	16 31 32.105	+30 36 09.91
+30°3425	19 05 35.458	+30 10 23.75
+30°3884	20 03 35.37	+30 49 54.5
+30°3915	20 07 05.122	+30 24 10.57
+30°3998	20 19 27.930	+30 25 47.38
+30°4051	20 27 11.48	+31 13 07.3
+30°4963	23 27 57.591	+30 33 22.27
+29° 371 A	02 09 27.778	+30 04 10.44
+29° 371 B	02 09 27.868	+30 04 14.14
+29° 869	05 18 01.655	+29 31 15.77
+29° 947	05 36 07.380	+29 11 17.37
+29°1590	07 40 11.374	+29 00 22.23

BD	α_{1950}	δ_{1950}
+29°2423	13 29 43.743	+28 50 29.55
+29°3187	18 06 19.888	+29 40 57.54
+29°3241	18 19 01.374	+29 50 01.63
+29°3259	18 24 02.968	+29 47 56.13
+29°3814	19 54 39.43	+29 51 25.1
+29°4324	21 06 31.463	+30 00 09.40
+29°4525	21 47 37.796	+29 56 26.28
+28° 4	00 05 47.841	+28 48 52.12
+28° 49	00 20 12.269	+29 10 38.27
+28° 312	01 50 13.440	+29 20 10.14
+28° 532	03 23 33.019	+28 32 32.53
+28°1116	06 22 55.79	+28 01 43.4
+28°4171	21 42 05.932	+28 33 07.71
+28°4389	22 29 15.036	+29 17 08.97
+27° 318	01 57 42.427	+27 38 50.46
+27° 623	04 00 49.539	+27 59 22.76
+27° 633	04 03 32.054	+27 27 59.58
+27° 758	05 17 50.783	+27 54 30.55
+27° 899	05 50 10.984	+27 36 08.48
+27° 934	05 55 42.40	+27 04 29.9
+27°1706	08 58 58.19	+26 53 17.9
+27°1715	09 05 51.076	+26 50 13.96
+27°2114	12 17 48.976	+26 53 54.44
+27°2151	12 32 18.928	+27 06 16.26
+27°2512	15 32 34.145	+26 52 54.75
+27°2585	16 04 47.386	+27 24 33.36
+27°2668	16 39 34.863	+27 00 42.82
+27°3313 B	19 13 55.995	+27 21 59.40
+27°3952	21 00 16.464	+27 36 33.50
+27°4107	21 33 05.963	+27 58 27.11
+27°4588	23 36 59.446	+27 57 58.55
+27°4642	23 52 29.081	+28 21 17.88

BD

BD	α_{1950}	δ_{1950}
+26° 730	04 33 41.765	+27 02 01.03
+26° 883	05 35 47.963	+26 17 18.02
+26° 971	05 47 05.750	+26 56 58.03
+26°1996	09 41 19.491	+25 35 02.80
+26°2304	12 05 03.135	+26 10 39.81
+26°2332	12 18 33.925	+25 59 51.52
+26°2333	12 18 52.29	+25 57 08.1
+26°2340	12 20 37.805	+26 07 42.83
+26°2347	12 22 31.887	+25 50 15.38
+26°2494	13 44 23.997	+25 57 08.51
+26°2508	13 53 51.820	+26 09 46.07
+26°2737	15 47 29.713	+26 13 13.16
+26°3815	20 08 28.223	+26 45 17.59
+26°3835	20 11 41.158	+26 35 53.27
+25° 276	01 38 30.650	+25 29 38.52
+25° 580	03 34 10.194	+25 49 51.24
+25° 902	05 36 38.143	+25 52 15.31
+25°2191	09 57 13.305	+24 47 36.13
+25°2737	14 08 07.066	+25 19 39.84
+25°2800	14 32 58.282	+24 51 25.62
+25°3803	19 19 35.300	+25 28 44.08
+25°4635	21 50 47.084	+25 41 20.87
+24° 376	02 34 07.128	+24 25 50.90
+24° 529	03 37 46.777	+25 10 09.75
+24° 551	03 42 42.7	+24 45 06.
+24° 719	04 55 49.751	+24 25 14.37
+24° 755	05 05 03.646	+24 12 02.80
+24°1343	06 36 27.466	+24 38 41.02
+24°2464	12 26 57.037	+24 23 06.37
+24°2475	12 32 35.53	+23 36 45.5
+24°2476	12 33 20.65	+23 42 35.7
+24°2592	13 28 24.772	+24 29 25.23
+24°3545	18 47 11.007	+24 59 18.60
+24°3552	18 48 45.961	+24 39 36.06
+24°3568	18 51 21.765	+24 12 54.00
+24°4394	21 21 53.419	+25 05 48.62
+24°4463	21 42 22.714	+25 24 51.41

BD

BD	α_{1950}	δ_{1950}
+24°4533	22 04 40.836	+25 06 00.71
+24°4742	23 14 26.026	+25 26 46.28
+23° 106	00 44 40.968	+23 59 43.95
+23° 158 B	01 11 01.311	+24 19 04.65
+23° 279	02 01 26.	+23 45 42.
+23° 507	03 41 54.055	+23 57 27.82
+23° 540	03 44 30.587	+24 08 07.14
+23° 541	03 44 30.424	+23 57 07.57
+23° 635	04 08 55.99	+23 30 32.8
+23° 954	05 32 23.746	+24 00 29.86
+23°1151	05 58 25.764	+23 08 27.22
+23°1170	06 01 04.774	+23 16 04.51
+23°1286	06 15 22.778	+23 35 30.97
+23°3500	18 53 47.211	+23 29 40.63
+23°3809	19 49 30.7	+23 45 30.
+23°3826	19 51 50.368	+23 25 58.09
+23°4675	23 03 02.596	+24 22 58.66
+22° 226	01 22 51.423	+23 15 07.42
+22° 545	03 42 51.373	+22 59 32.97
+22° 607	03 54 05.621	+23 01 55.17
+22° 669	04 15 10.89	+23 09 49.7
+22° 739	04 39 14.403	+22 51 46.00
+22°1807	07 52 07.807	+22 08 04.61
+22°2302	10 59 57.200	+22 14 13.72
+22°3647	19 15 32.192	+22 20 59.99
+22°3833	19 48 54.847	+22 28 53.89
+22°4601	22 14 18.976	+22 38 47.51
+21° 203	01 28 59.864	+22 29 03.90
+21° 279	02 03 45.702	+22 24 39.13
+21° 306	02 12 31.699	+22 20 13.83
+21° 908	05 34 39.263	+21 06 50.00
+21°1602	07 24 46.351	+21 32 56.88
+21°2113	09 47 02.359	+21 24 48.04
+21°2934	16 28 04.105	+21 35 50.16
+21°3022	16 58 58.842	+21 34 11.44
+21°3302	18 03 42.272	+21 26 26.17
+21°3302	18 03 42.272	+21 26 26.17

BD	α_{1950}	δ_{1950}
+21°3582	18 50 08.196	+21 21 48.31
+21°3713	19 14 03.958	+21 18 03.00
+21°4203	20 22 58.190	+21 19 29.54
+20° 306	01 51 52.340	+20 33 52.09
+20° 685	03 58 08.17	+20 16 30.5
+20° 733	04 16 28.992	+21 01 22.50
+20° 785	04 35 18.604	+20 35 09.65
+20° 802	04 38 22.034	+20 48 34.57
+20°2874	13 46 49.12	+20 26 16.0
+20°3481	17 24 39.539	+20 07 19.95
+20°3649	18 00 14.676	+20 49 55.39
+20°4022	18 59 13.272	+20 45 37.79
+19° 886	05 14 33.482	+20 04 48.20
+19°1126	05 51 58.976	+19 44 29.91
+19°1186	06 00 29.692	+19 41 35.51
+19°2068	08 37 10.291	+19 10 39.16
+19°2584	12 32 35.859	+18 39 07.47
+19°2870 A	14 49 04.800	+19 18 24.60
+19°3086	16 19 42.738	+19 16 09.32
+19°3975	19 16 37.017	+19 31 04.26
+19°4574	20 54 53.056	+19 27 18.84
+18° 659	04 33 42.934	+18 39 15.79
+18°1214	06 23 14.318	+18 47 20.98
+18°2101	08 58 14.34	+18 05 44.1
+18°2304	09 58 01.841	+18 06 11.91
+18°2307 A	09 58 55.919	+17 39 03.97
+18°2307 B	09 58 55.919	+17 39 03.97
+17° 315	02 05 00.932	+17 47 32.20
+17°1182	06 11 33.303	+17 55 20.05
+17°2165	09 59 50.289	+17 17 17.18
+17°2374	11 32 06.389	+17 04 23.44
+17°2402	11 46 39.843	+16 31 18.60

BD

BD	α_{1950}	δ_{1950}
+17°3053	16 33 11.685	+17 09 32.66
+17°3117	16 52 08.612	+16 55 02.73
+17°4952	23 35 25.105	+18 07 24.38
+16° 76	00 46 20.792	+16 40 15.74
+16° 281	02 19 47.680	+16 38 35.41
+16° 355	02 46 29.840	+17 15 27.29
+16° 516	03 47 33.42	+17 05 46.2
+16° 586	04 20 32.670	+16 39 43.80
+16° 926	05 53 57.266	+16 20 58.38
+16°1035	06 09 10.198	+16 08 37.04
+16°1223	06 34 49.396	+16 26 37.40
+16°2319	11 53 06.284	+15 55 30.08
+16°3130	17 11 43.180	+16 24 27.89
+16°3758	19 06 25.899	+16 46 18.21
+16°3812	19 16 30.078	+16 23 45.50
+16°3839	19 22 07.267	+16 50 20.28
+16°4831	22 50 34.454	+16 34 31.28
+15° 632	04 25 48.214	+15 45 41.88
+15° 692	04 47 56.057	+16 07 35.05
+15°2230	10 35 40.955	+14 31 39.89
+15°3311	17 55 51.349	+15 08 31.12
+15°3951	19 46 11.83	+15 29 44.8
+15°4915	23 55 25.150	+15 40 30.80
+14° 14	00 10 39.447	+14 54 20.57
+14° 341	02 04 09.91	+15 03 27.4
+14° 419	02 30 09.520	+14 48 52.07
+14° 690	04 19 53.799	+14 56 25.18
+14°1152	06 04 42.949	+14 46 34.32
+14°1187	06 09 05.753	+14 13 18.68
+14°2239	10 21 23.195	+14 15 37.69
+14°2280	10 37 53.919	+13 49 41.65
+14°3086	16 34 40.598	+14 34 30.70
+14°3329	17 42 00.614	+14 25 48.97

BD	α_{1950}	δ_{1950}
+14°5006	23 29 43.239	+14 41 35.02
+13° 13	00 09 54.612	+14 17 11.48
+13° 665	04 18 03.740	+13 44 47.42
+13° 668	04 19 14.250	+13 57 38.10
+13°2183	09 55 32.100	+12 41 03.03
+13°2481	11 58 29.742	+13 17 13.09
+13°2618	12 58 17.75	+12 38 42.7
+13°3012	15 46 29.487	+12 52 32.56
+13°3258	16 52 57.654	+13 41 57.63
+13°3496	17 56 31.03	+13 29 59.8
+13°3787	18 49 44.326	+13 54 15.54
+13°4098	19 38 46.581	+13 41 53.48
+13°4478	20 37 16.454	+14 15 05.69
+13°4708 A	21 24 17.421	+13 28 14.79
+12° 539	03 57 54.378	+12 21 02.13
+12°2437	12 11 47.877	+12 05 54.90
+12°3241	17 29 55.112	+11 57 53.52
+12°3252	17 32 36.697	+12 35 41.94
+12°3557	18 28 20.265	+12 34 31.12
+11° 629	04 32 46.804	+11 59 55.97
+11°1204	06 28 22.604	+11 17 15.24
+11°1984	09 05 02.414	+10 52 14.13
+11°2108	09 47 08.650	+11 20 27.63
+11°2910	16 03 32.437	+10 49 11.39
+11°4055	19 53 52.132	+11 17 22.86
+11°4673	21 48 36.187	+12 23 27.65
+10° 577	04 24 42.955	+11 06 05.36
+10° 583	04 26 57.746	+10 24 48.13
+10°1104	06 19 17.7	+10 55 10.
+10°2044	09 38 29.008	+10 07 14.64
+10°2234 A	10 59 34.162	+10 09 53.23

BD

BD	α_{1950}	δ_{1950}
+10°3528	18 26 52.942	+10 51 28.93
+10°3787	19 04 37.292	+10 59 34.00
+10°4143	19 59 03.538	+10 36 33.14
+10°4339	20 35 25.553	+11 12 07.03
+10°4514	21 16 09.806	+11 21 30.02
+9° 439	03 24 27.329	+09 33 35.17
+9° 607	04 32 54.244	+10 03 35.07
+9° 743	05 06 34.444	+09 46 01.19
+9°1064 A	05 59 37.854	+09 38 56.35
+9°1064 B	05 59 37.852	+09 38 56.27
+9°1331	06 37 43.434	+09 51 54.72
+9°1332	06 37 53.245	+09 50 06.93
+9°2374	10 32 24.801	+08 54 33.57
+9°2916	14 32 36.509	+09 19 58.50
+9°3584	18 06 58.344	+09 08 27.59
+9°3928	18 53 00.002	+09 16 53.30
+9°3979	19 02 45.622	+09 33 55.90
+9°4425	20 07 35.981	+10 12 05.66
+9°4786	21 18 55.406	+10 07 10.24
+8° 19	00 12 24.138	+08 32 35.70
+8° 933	05 19 00.088	+08 22 50.64
+8°1016	05 34 35.124	+08 55 22.13
+8°1486	06 43 48.773	+08 38 30.21
+8°1774	07 24 26.357	+08 23 29.89
+8°2134	08 49 35.089	+08 15 18.27
+8°3134	16 03 12.539	+08 13 50.63
+8°4224	19 45 48.361	+09 11 01.76
+8°4714	21 37 34.126	+08 57 26.46
+7° 676	04 35 12.600	+07 13 06.78
+7°1367	06 33 26.	+07 54 18.
+7°1997	08 33 11.523	+06 47 45.07
+7°3164	16 21 44.526	+07 03 44.55
+7°3368	17 23 54.053	+07 38 17.03
+7°4252	19 47 51.889	+07 46 29.79
+7°4556	20 47 21.142	+07 40 37.88
+7°4824	22 10 54.207	+08 10 38.36

BD

BD	α_{1950}	δ_{1950}
+6° 175	01 11 08.335	+07 18 52.03
+6° 189	01 14 18.536	+06 32 52.97
+6° 203	01 18 26.843	+07 20 38.93
+6°1308	06 34 29.664	+06 06 08.90
+6°1309	06 34 43.220	+06 10 44.47
+6°2036 C	08 44 07.508	+06 36 11.91
+6°2040	08 45 47.114	+06 01 24.82
+6°3790	18 25 32.158	+06 09 43.34
+6°5227	23 56 44.494	+06 35 11.41
+5° 539	03 43 00.821	+05 53 41.52
+5° 613	04 12 45.952	+06 04 37.48
+5° 745	04 48 32.421	+05 31 16.34
+5° 939	05 28 06.416	+05 54 41.79
+5°2240	09 47 53.998	+04 34 42.92
+5°2439	11 02 29.464	+05 25 21.48
+5°2794	13 43 36.039	+05 21 56.68
+5°3482	17 43 29.945	+05 42 47.12
+5°3484	17 43 43.758	+05 40 35.84
+5°3491	17 44 19.434	+05 34 57.41
+5°3494	17 44 35.061	+05 42 33.23
+5°3504	17 46 16.265	+05 42 59.48
+5°3547	17 54 24.291	+04 59 30.82
+5°4202	19 32 56.560	+05 43 38.20
+5°4225	19 36 43.539	+05 16 56.69
+5°4655	20 54 49.875	+05 37 15.97
+4° 686	04 22 04.193	+04 35 09.36
+4°1236	06 21 07.050	+04 37 11.68
+4°1299	06 29 21.30	+04 54 54.1
+4°1778	07 37 37.	+04 00 00.
+4°1850	07 51 29.	+03 46 48.
+4°2506a	11 35 53.01	+03 38 46.9
+4°2748	13 25 12.736	+04 07 58.81
+4°4568	20 51 02.672	+04 27 25.20
+4°4584	20 54 43.193	+04 53 13.36
+4°5012	23 25 12.66	+04 34 34.6

BD	α_{1950}	δ_{1950}
+3° 733	04 57 30.816	+03 12 48.15
+3° 903	05 24 30.136	+03 48 51.27
+3°1979	08 24 26.810	+03 40 50.83
+3°2261	09 40 51.573	+02 51 25.03
+3°4473	20 56 34.570	+04 06 02.09
+2° 810	04 51 38.661	+02 21 37.24
+2° 962	05 24 12.930	+03 03 14.26
+2°1379	06 43 13.331	+02 33 11.10
+2°1855	08 00 00.4	+01 51 38.
+2°1872	08 04 02.833	+02 04 27.19
+1°1171	05 55 48.526	+01 50 01.00
+1°2394	10 00 13.485	+01 20 11.57
+1°2819	13 27 14.065	+01 21 16.65
+1°3408	17 13 59.357	+01 15 53.07
+1°3578	18 02 05.802	+01 54 53.89
+1°4695	23 10 50.577	+02 24 09.70
+0° 616	03 34 13.130	+00 25 32.96
+0° 893	04 52 16.487	+00 23 15.42
+0°1056	05 23 12.686	+00 28 38.36
+0°3102	13 45 18.592	−00 20 44.98
+0°3562	16 38 47.763	+00 36 08.38
+0°3629	17 02 43.918	+00 46 28.23
+0°3936	18 24 38.902	+00 09 53.73
+0°4055	18 53 13.166	+00 11 58.95
−0° 210	01 20 16.664	+00 27 16.10
−0° 929	05 18 58.611	−00 27 52.47
−0° 982	05 29 26.996	−00 19 11.93
−0° 983	05 29 27.017	−00 20 04.41
−0°1009	05 32 39.920	−00 46 01.02
−0°1882	07 58 40.698	−01 15 08.75
−0°2769	13 55 50.215	−01 25 04.50
−0°2796	14 11 05.875	−00 36 36.88

BD

BD	α_{1950}	δ_{1950}
−1° 484	03 21 50.132	−00 52 47.00
−1° 859	05 17 03.159	−01 27 44.10
−1° 889	05 23 04.494	−01 32 03.78
−1° 939	05 30 35.612	−01 45 05.11
−1° 943	05 30 59.063	−01 11 23.03
−1° 943	05 30 59.063	−01 11 23.03
−1° 949	05 31 31.369	−01 04 07.23
−1° 969	05 33 40.476	−01 13 56.30
−1°1004	05 38 18.310	−01 09 12.66
−1°1446	06 52 10.273	−01 41 31.75
−1°2777	13 05 55.345	−02 24 46.32
−1°3092	15 43 30.273	−01 38 56.03
−1°3220	16 33 43.677	−02 13 10.02
−1°3553	18 41 37.182	−01 36 21.90
−1°3559	18 43 53.644	−01 00 56.62
−1°3911	20 08 43.494	−00 58 16.06
−1°4025	20 38 19.779	−00 46 31.92
−1°4242	22 02 13.118	−01 08 55.93
−2° 127	00 53 11.	−02 22 00.
−2°1235	05 21 57.674	−02 26 29.65
−2°1250	05 24 28.143	−02 24 07.49
−2°1327	05 36 16.398	−02 37 17.58
−2°1338 A	05 38 14.044	−01 58 03.05
−2°1885	06 58 56.773	−03 02 43.49
−2°2331	07 50 49.059	−02 54 40.73
−2°2581 A	08 25 57.681	−02 21 00.72
−2°2581 B	08 25 57.689	−02 21 00.60
−2°4211	16 33 43.677	−02 13 10.02
−2°4641	18 27 04.776	−02 01 09.27
−2°4840	19 01 34.079	−02 06 18.37
−2°5024	19 28 39.676	−02 12 59.60
−3° 876	04 42 59.993	−03 20 41.33
−3°1075	05 19 27.985	−03 00 40.49
−3°1146	05 33 05.918	−03 17 02.12
−3°1413	06 20 31.535	−03 15 01.97
−3°1648	06 53 20.07	−03 58 38.9

BD

BD	α_{1950}	δ_{1950}
-3°2333	08 22 05.451	-03 35 16.72
-4° 62	00 32 40.390	-03 52 04.29
-4°1044	05 04 17.196	-04 43 14.92
-4°1183	05 32 53.307	-04 31 30.89
-4°1185	05 32 55.034	-04 52 10.86
-4°1822	07 04 07.75	-04 32 42.7
-4°3540	13 41 17.921	-05 14 51.96
-4°4275	17 23 58.550	-05 02 38.50
-4°4678	19 01 20.36	-04 23 32.7
-5°1319	05 32 55.469	-05 26 50.89
-5°1320	05 32 58.911	-05 26 52.21
-5°1315 A	05 32 48.356	-05 25 07.95
-5°1315 B	05 32 48.669	-05 25 00.57
-5°1325	05 33 03.747	-05 17 54.89
-5°4936	19 17 52.724	-05 30 38.73
-5°5732	22 10 07.624	-04 58 04.69
-6° 841	04 09 45.	-06 09 12.
-6°1241	05 32 59.126	-05 56 28.26
-6°1262	05 35 00.528	-05 58 02.16
-6°2694	08 39 36.	-06 33 00.
-6°2743	08 49 06.951	-06 59 19.68
-6°2845	09 09 57.872	-06 54 13.73
-6°3344	11 14 26.026	-06 51 41.86
-6°4068	14 42 41.679	-06 31 30.12
-6°6357	00 02 46.530	-05 59 13.96
-7° 553	03 07 24.89	-07 04 53.0
-7° 798	04 18 17.198	-07 42 38.65
-7°1373	06 17 18.205	-07 48 01.79
-7°3007	10 17 27.328	-08 26 48.92
-7°3477	12 41 44.61	-08 23 51.0
-7°3938	14 58 17.808	-08 19 18.19
-7°5753	22 18 24.567	-07 12 59.69
-8° 801	04 07 15.207	-08 01 27.35
-8°1050	05 08 50.595	-08 36 59.85
-8°2186	07 59 19.609	-08 27 13.65
-8°3018	10 47 47.457	-08 37 56.58
-8°3981	15 25 26.995	-09 10 13.82
-8°4243	16 25 05.689	-08 15 41.15
-8°6189	23 44 44.16	-08 21 45.3
-9° 624	03 13 24.143	-09 00 15.50
-9° 697	03 30 34.355	-09 37 34.76
-9°1285	05 56 41.770	-09 33 36.62
-9°4138	15 21 29.019	-10 08 37.91
-9°4736	18 23 48.968	-09 13 56.04
-10° 374	01 44 28.	-10 00 06.
-10° 728	03 40 51.035	-09 55 53.05
-10° 763	03 49 30.314	-10 40 39.05
-10° 858	04 09 46.525	-10 35 43.58
-10°1281	05 45 05.621	-10 32 58.15
-10°1368	06 03 05.306	-10 14 15.83
-10°3672	13 22 33.301	-10 54 03.36
-10°4625	18 09 38.201	-10 44 41.64
-10°4814	18 46 25.718	-10 17 56.27
-10°4926	18 59 48.098	-10 47 42.35
-11°1755	07 00 21.896	-11 22 45.98
-11°1790	07 04 19.804	-11 12 55.96
-11°2916	10 33 33.052	-11 39 01.12
-11°4593	18 16 19.810	-11 39 16.24
-11°4871	19 03 31.107	-11 43 35.61
-12° 818	04 09 26.88	-11 55 07.7
-12°1777	07 03 22.907	-12 44 04.08
-12°3073	10 02 41.299	-12 49 17.50
-12°3565	12 05 02.	-12 52 48.
-12°3676 B	12 38 40.251	-12 44 26.80

BD

BD	α_{1950}	δ_{1950}
-12°4018	14 16 23.969	-13 08 30.89
-12°4227	15 14 03.148	-12 51 21.50
-12°4633	16 56 41.885	-12 48 59.45
-12°4808	17 38 36.137	-12 51 01.22
-12°4980	18 15 17.602	-12 15 45.67
-12°5045	18 22 42.706	-12 43 09.24
-12°6371	22 50 50.810	-11 52 58.44
-13° 60	00 20 18.035	-12 29 14.89
-13° 525	02 44 34.929	-13 33 00.24
-13°2051	07 27 35.932	-13 53 00.91
-13°2170	07 39 26.765	-13 16 30.71
-13°2854	09 24 17.66	-13 32 03.3
-13°4965	18 21 43.60	-13 40 53.7
-14°1119	05 21 12.789	-13 58 22.14
-14°2193	07 43 10.625	-14 33 48.31
-14°3885	14 06 43.	-15 20 54.
-14°5039	18 22 24.821	-14 00 26.18
-14°5578	19 50 17.153	-14 43 57.84
-14°6102	21 38 49.847	-14 16 17.57
-15° 426	02 23 37.678	-15 33 54.52
-15° 686	03 52 25.246	-15 04 49.57
-15°1732	07 13 40.976	-16 08 46.98
-15°4395	16 46 36.157	-15 34 54.81
-15°4621	17 34 43.274	-15 22 07.81
-15°5629	20 18 12.200	-14 56 26.57
-15°5848	20 55 55.845	-14 40 39.39
-16°1898	07 17 12.341	-16 18 00.39
-16°4110	15 30 05.440	-16 41 04.98
-16°4888	18 25 31.381	-16 44 02.08
-16°5283	19 18 51.834	-16 03 01.82
-16°5943	21 44 16.993	-16 21 18.42
-17°3949	13 49 54.667	-18 27 46.33
-17°4554	16 19 37.49	-17 45 42.9
-17°5470	19 03 49.111	-17 10 56.30
-17°6422	21 59 42.543	-17 12 21.87
-17°6490	22 16 40.	-17 08 36.
-18° 349	01 57 49.205	-18 26 58.19
-18°2927	10 22 12.430	-18 50 18.55
-18°3295	11 58 17.520	-19 22 50.49
-18°3431	12 35 03.324	-19 18 10.62
-18°3437	12 37 37.339	-18 31 32.40
-18°3528	12 59 13.446	-19 30 19.45
-18°4243	16 09 11.761	-18 56 02.93
-18°4282	16 24 07.298	-18 20 40.08
-18°4886	18 14 32.490	-18 28 58.27
-19°1407	06 16 04.179	-19 56 46.76
-19°3242	11 18 56.573	-20 10 41.13
-19°4249	15 50 25.602	-20 01 08.70
-19°4307	16 02 31.507	-19 40 12.45
-19°4333	16 09 05.107	-19 19 56.51
-19°5170	18 45 34.167	-19 44 31.89
-19°5292	19 03 01.336	-19 33 31.11
-20° 345	01 47 11.	-19 52 36.
-20° 801	04 09 24.399	-20 29 05.34
-20°2009	07 30 35.866	-20 41 02.30
-20°2538	08 25 19.808	-20 40 40.27
-20°3005	09 42 33.	-20 40 42.
-20°4364	15 54 44.832	-20 50 22.85
-20°5268	18 44 54.357	-20 19 49.29
-20°5516	19 19 42.783	-20 44 16.77
-20°6270	21 40 25.842	-19 51 00.45
-20°6454	22 31 59.213	-20 07 05.54

BD

BD	α_{1950}	δ_{1950}
−21° 311	01 46 31.80	−21 08 26.7
−21°4908	18 10 46.324	−21 04 25.46
−21°5131	18 42 19.553	−21 03 14.40
−21°6175	22 10 01.260	−21 08 13.60
−21°6267	22 36 01.287	−20 52 49.35
−22° 628	03 31 34.657	−21 47 57.95
−22°3467	12 50 52.905	−22 36 06.03
−22°4046	15 51 44.263	−22 37 10.25
−22°4068 A	15 57 22.318	−22 28 51.37

BD	α_{1950}	δ_{1950}

BV

BV	α_{1950}	δ_{1950}
4	01 05 50.90	+61 12 16.2
7	01 40 40.82	+79 49 52.4
31	09 06 18.413	+54 41 39.96
40	12 38 07.40	+66 33 37.1
45	14 54 43.31	+46 33 46.6
50	16 55 08.726	+52 46 31.80
73	23 43 10.92	+59 37 42.6
75	01 39 27.66	+44 30 36.8
90	09 00 13.775	+38 17 47.88
97	13 00 56.027	+36 53 06.23
114	20 03 35.37	+30 49 54.5
131	08 07 52.56	+28 17 32.5
135	14 32 58.282	+24 51 25.62
143	21 19 20.496	+35 31 22.15
149	01 14 18.536	+06 32 52.97
150	02 04 09.91	+15 03 27.4
152	03 58 08.17	+20 16 30.5
173	20 51 02.672	+04 27 25.20
179	00 30 07.26	+49 03 06.6
200	20 17 16.981	+76 39 10.91
224	01 28 56.492	+53 45 43.33
233	18 26 15.72	+68 55 52.6
263	02 16 35.776	+78 40 55.14
265	03 08 36.873	+59 43 56.04
267	05 11 47.306	+46 21 00.58
312	04 35 18.604	+20 35 09.65
313	19 24 55.820	+52 20 47.70
320	22 31 59.213	−20 07 05.54
326	23 46 05.315	+57 28 15.71
332	13 29 43.743	+28 50 29.55
342	21 22 54.511	+33 28 17.54
343	13 37 38.72	+70 03 22.6
344	19 02 46.279	+57 22 52.44
346	21 09 32.920	+55 07 36.53
359	05 45 05.621	−10 32 58.15
366	11 02 29.464	+05 25 21.48
374	22 55 59.145	+68 08 22.09
382	21 30 21.043	+70 36 07.09
384	22 49 26.31	+56 44 23.0
386	23 00 04.241	+62 14 34.90

BV

BV	α_{1950}	δ_{1950}
412	06 41 58.360	+69 40 59.44
416	01 14 37.52	−18 12 10.4
418	17 18 14.145	−67 52 52.54
419	17 33 50.722	−56 47 28.93
420	17 46 24.124	−53 35 53.52
421	04 52 47.738	−84 53 50.59
423	00 15 02.39	−72 11 36.7
430	08 44 58.108	−78 53 15.10
443	13 49 54.667	−18 27 46.33
448	15 15 39.095	−40 36 23.40
449	15 14 03.148	−12 51 21.50
453	04 27 31.924	−33 41 04.34
457	05 31 45.039	−81 37 23.92
470	09 52 56.908	−58 11 01.77
473	10 42 26.855	−81 46 25.97
480	16 34 56.592	−60 51 46.87
482	20 53 50.503	−70 36 57.94
483	01 30 29.024	−49 47 01.41
495	08 40 29.52	−32 09 41.6
502	11 40 18.375	−35 32 17.06
508	14 06 43.	−15 20 54.
510	14 47 26.	−55 42 42.
513	13 28 31.522	−51 30 52.20
516	14 10 15.197	−54 23 31.03
544	16 46 36.157	−15 34 54.81
552	18 05 48.436	−25 28 55.10
556	18 25 31.381	−16 44 02.08
564	21 54 59.023	−59 15 05.97
574	16 13 35.68	−44 51 55.6
577	16 21 27.670	−34 46 45.74
584	18 12 28.406	−35 39 16.25
590	19 48 21.623	−46 59 23.70
600	21 59 42.543	−17 12 21.87
610	07 08 34.76	−30 34 46.1
623	20 55 55.845	−14 40 39.39
625	00 51 26.650	−74 55 23.30
634	08 25 19.808	−20 40 40.27
646	06 19 59.828	−54 31 28.63
656	07 00 21.896	−11 22 45.98
699	09 55 05.716	−57 24 58.24

BV

BV	α_{1950}	δ_{1950}
701	10 22 12.430	−18 50 18.55
722	11 03 31.885	−27 01 02.10
724	11 22 09.703	−57 27 10.71
747	14 42 41.679	−06 31 30.12
755	16 53 06.857	−40 44 43.53
795	01 57 49.205	−18 26 58.19
805	07 29 33.686	−37 53 42.19
811	08 57 34.039	−27 37 10.53
845	13 36 22.63	−44 50 41.2
884	18 34 04.330	−42 59 55.58
888	19 03 01.336	−19 33 31.11
981	22 46 55.5	−27 22 46.
991	03 05 40.	−56 19 36.
1097	08 30 43.51	−37 48 46.2
1101	13 49 24.087	−55 17 40.37
1161	17 43 00.106	−56 04 52.87
1200	08 46 29.67	−44 41 13.3
1201	09 10 58.303	−43 16 52.18
1215	17 03 19.261	−46 56 13.25
1259	16 47 58.531	−57 10 41.04
1260	01 14 22.35	−39 58 21.6
1390	16 54 28.533	−37 55 12.01
1474	16 35 19.607	−44 03 32.38
1481	01 56 40.618	−23 09 44.85
1488	00 24 26.984	−40 09 29.29
1511	15 21 49.326	−63 15 05.79
1562	17 44 33.75	−37 37 23.5
1567	19 30 42.947	−40 08 37.91
1594	07 59 19.609	−08 27 13.65
1694	17 06 31.	−27 14 54.

BV

BV	α_{1950}	δ_{1950}

CoD

CoD	α_{1950}	δ_{1950}
−22° 1238	03 31 34.657	−21 47 57.95
−22° 9659	12 50 52.905	−22 36 06.03
−22°11240	15 51 44.263	−22 37 10.25
−22°11292 A	15 57 22.318	−22 28 51.37
−23° 737 A	01 56 40.618	−23 09 44.85
−23° 4553	06 52 08.092	−23 51 51.60
−23° 6977	08 11 22.061	−23 48 03.97
−24° 2022	03 57 47.488	−24 09 24.93
−24° 5173	07 16 35.390	−24 27 58.28
−24° 5176	07 16 38.031	−24 51 42.75
−24°12354	15 50 54.404	−24 23 08.40
−24°13292	17 18 56.157	−24 57 05.20
−24°13864	18 02 06.467	−24 24 10.84
−24°13962	18 06 14.180	−23 59 51.90
−24°15442	19 32 59.586	−24 49 48.90
−24°15668	19 51 18.212	−24 04 00.88
−25° 4197	07 10 22.20	−25 24 51.8
−25° 4828	07 36 13.100	−25 15 00.39
−25° 6589	08 46 21.553	−25 58 39.08
−25° 8531	11 10 45.689	−26 11 34.26
−25°11000	15 34 28.166	−26 06 57.22
−25°11228	15 55 49.301	−25 58 18.14
−25°11485	16 18 08.667	−25 28 28.14
−25°12793	18 05 48.436	−25 28 55.10
−25°13866	19 12 28.524	−25 20 40.36
−26° 179	00 33 59.099	−25 56 55.09
−26° 4223	07 18 53.056	−26 52 08.01
−26° 5111	07 50 03.54	−26 36 33.2
−26° 8342	11 03 31.885	−27 01 02.10
−26°12036	17 13 08.682	−26 28 33.11
−26°12367	17 45 20.106	−26 57 32.15

CoD

CoD	α_{1950}	δ_{1950}
−27° 352	01 03 10.366	−27 13 19.16
−27° 6009	08 49 56.062	−27 17 41.72
−27° 6141	08 57 34.039	−27 37 10.53
−27°10841	16 09 13.090	−27 47 53.94
−27°15798	22 06 56.98	−27 18 48.5
−28° 1406	04 04 33.905	−27 48 06.36
−28° 2059	05 13 33.09	−28 48 26.8
−28° 5985	08 22 40.37	−28 39 56.0
−28° 7373	09 30 06.988	−28 24 24.28
−28°11714	15 53 47.482	−29 04 10.92
−29° 376	01 10 17.798	−29 26 40.07
−29°11837	15 35 34.729	−29 36 53.36
−30° 369	01 08 14.59	−30 21 56.1
−30° 3038	06 18 23.546	−30 02 23.86
−30° 4030	07 08 34.76	−30 34 46.1
−30° 4143	07 11 51.659	−30 59 48.41
−30°16665	19 04 02.445	−30 14 19.32
−31° 76	00 13 15.51	−31 22 22.2
−31° 4593	07 27 09.049	−31 21 06.77
−31° 5004	07 43 02.02	−31 47 11.5
−31° 6443	08 40 29.52	−32 09 41.6
−31°10729	13 50 19.415	−31 40 53.33
−31°13830	17 15 37.39	−31 31 53.6
−31°14152	17 27 58.98	−31 20 30.8
−31°17815	20 42 03.756	−31 31 05.29
−32° 9603	13 42 50.314	−32 47 29.86
−32°12786	17 25 45.613	−32 57 54.91
−32°12924	17 31 08.431	−32 28 17.54
−32°12935	17 31 26.314	−32 32 56.46
−32°13517	17 52 59.793	−32 28 06.35
−32°13623	17 58 26.412	−32 42 54.63
−32°17321	22 53 37.402	−31 49 50.61
−32°17723	23 52 41.682	−32 11 59.56

CoD

CoD	α_{1950}	δ_{1950}
−33° 1755	04 27 31.924	−33 41 04.34
−33° 2599	05 51 17.886	−33 48 40.66
−33° 2927	06 20 17.110	−33 24 35.76
−33°10754	15 47 46.468	−33 28 35.36
−33°12117	17 26 47.627	−33 40 41.68
−33°12259	17 33 34.99	−34 00 49.0
−34° 1614	04 16 00.050	−33 55 09.54
−34° 3879	07 43 57.58	−34 12 25.9
−34° 4233	08 00 04.929	−35 09 47.95
−34° 4600	08 16 24.83	−34 46 25.4
−34°10494	15 39 29.420	−34 33 05.08
−34°10981	16 21 27.670	−34 46 45.74
−34°12187	17 49 35.252	−35 00 29.22
−34°12201	17 50 02.726	−35 00 23.38
−34°12208	17 50 09.20	−34 40 54.6
−34°12215	17 50 16.89	−34 43 36.3
−34°12217	17 50 24.00	−34 47 04.8
−34°12226	17 50 34.637	−34 44 35.62
−34°12237	17 50 54.378	−34 43 06.20
−34°12673	18 14 17.236	−34 07 35.38
−34°15853	22 57 42.167	−34 00 41.25
−35° 3652	07 29 53.564	−35 46 49.34
−35° 7392	11 40 18.375	−35 32 17.06
−35°10101	15 08 17.021	−36 03 38.08
−35°12429	18 12 28.406	−35 39 16.25
−35°13831	19 56 29.133	−35 24 47.51
−36° 3519	07 16 51.450	−36 39 00.62
−36° 8231	12 56 03.953	−36 42 19.24
−36° 8903	13 48 59.555	−36 22 33.15
−36°10161	15 24 05.522	−36 35 36.61
−36°12064	17 55 49.486	−36 56 08.06
−37° 3645	07 29 33.686	−37 53 42.19
−37° 3890	07 44 31.772	−37 46 25.62
−37° 4833	08 30 43.51	−37 48 46.2
−37° 7355	11 33 48.240	−37 45 33.32
−37°11033	16 48 28.679	−37 57 48.92

CoD

CoD	α_{1950}	δ_{1950}
−37°11118	16 54 28.533	−37 55 12.01
−37°11206	17 00 32.697	−37 46 28.76
−37°11673	17 30 12.626	−37 04 09.63
−37°11880	17 44 33.75	−37 37 23.5
−37°13001	18 55 21.086	−37 10 27.98
−38° 875	02 36 23.832	−38 12 17.97
−38° 899	02 41 25.470	−38 08 20.27
−38° 3538	07 38 07.115	−38 25 54.68
−38° 3556	07 39 30.268	−38 24 56.59
−38° 3769	07 50 52.396	−38 43 56.79
−38° 4462	08 24 28.064	−38 53 43.30
−38° 4504	08 26 27.552	−38 48 19.21
−38° 9520	14 34 41.5	−38 37 43.
−39° 9135	14 39 23.	−40 14 36.
−40° 85	00 24 26.984	−40 09 29.29
−40° 288	01 14 22.35	−39 58 21.6
−40° 4838	09 00 13.184	−40 21 25.29
−40° 9496	15 15 39.095	−40 36 23.40
−40° 9538	15 18 04.851	−40 28 04.92
−40° 9760	15 31 47.980	−41 00 00.69
−40°10832	16 48 46.79	−40 42 49.7
−40°10956	16 52 37.153	−40 16 13.24
−40°10975	16 53 06.857	−40 44 43.53
−40°13356	19 30 42.947	−40 08 37.91
−41° 3793	08 06 32.407	−41 52 58.70
−41° 3957	08 15 55.185	−41 33 05.63
−41° 4523	08 46 42.283	−42 12 52.63
−41° 4549	08 47 57.715	−41 33 22.66
−41° 4560	08 48 31.719	−41 54 08.36
−41° 8171	13 46 29.739	−41 26 21.52
−41°10930	16 46 31.310	−41 32 08.29
−41°10972	16 48 48.358	−41 46 16.53
−41°11018	16 50 24.570	−41 47 59.48
−41°11021	16 50 27.600	−41 54 47.89

CoD

CoD	α_{1950}	δ_{1950}
−41°11022	16 50 29.301	−41 38 00.94
−41°11033	16 50 39.035	−41 44 39.16
−41°11038	16 50 42.242	−41 45 40.46
−41°11041	16 50 48.747	−41 44 20.88
−41°11042	16 50 48.88	−41 45 18.7
−41°11055	16 51 05.662	−41 20 33.89
−42° 1258	03 47 28.63	−42 45 59.0
−42° 4492	08 38 20.08	−42 39 01.5
−42° 5065	09 10 58.303	−43 16 52.18
−42° 9876	14 56 35.57	−42 47 02.9
−42°11399	16 32 51.149	−42 45 26.77
−42°13933	19 06 26.482	−41 58 25.53
−42°14462	19 44 12.64	−42 07 51.5
−42°15664	21 48 46.938	−42 36 28.98
−43° 2114	05 51 57.204	−43 34 01.76
−43° 7502	12 06 18.122	−44 02 49.38
−43°10964	16 35 19.607	−44 03 32.38
−43°12429	18 15 11.385	−43 22 52.61
−43°12674	18 34 04.330	−42 59 55.58
−44° 775	02 32 28.419	−44 00 38.92
−44° 2920	06 46 34.846	−44 15 33.53
−44° 3573	07 34 40.891	−44 50 40.50
−44° 4834	08 46 29.67	−44 41 13.3
−44° 8789	13 36 22.63	−44 50 41.2
−44° 9932	15 09 27.473	−44 18 46.87
−44°10066	15 19 16.541	−44 30 40.82
−44°10742	16 13 35.68	−44 51 55.6
−45° 4482	08 43 05.61	−45 47 58.2
−45°10414	16 01 22.456	−46 09 27.41
−45°12550	18 28 03.240	−45 57 02.52
−45°12556	18 28 20.113	−45 47 37.72
−45°14947	23 07 32.182	−45 31 04.35

CoD

CoD	α_{1950}	δ_{1950}
−46° 1350	04 12 47.27	−46 34 30.2
−46° 3435	07 46 00.808	−46 29 00.76
−46° 3846	08 07 56.860	−47 11 49.46
−46° 3847	08 07 59.465	−47 11 18.31
−46° 3929	08 12 02.251	−46 50 21.54
−46° 4025	08 16 26.576	−46 56 06.24
−46° 4661	08 48 51.625	−46 20 29.20
−46° 8949	13 52 24.510	−47 02 34.87
−46°11218	17 03 19.261	−46 56 13.25
−46°13749	20 51 17.391	−45 55 16.81
−47° 1071	03 29 00.652	−47 32 42.06
−47° 1526	04 47 32.024	−47 13 14.59
−47° 1940	05 34 41.153	−47 20 36.96
−47° 4004	08 27 29.901	−47 45 40.37
−47° 4251	08 40 39.102	−47 55 07.79
−47° 4504	08 53 18.216	−47 24 03.05
−47° 6042	10 35 11.747	−47 57 55.48
−47° 8945	14 07 28.904	−47 31 59.91
−47°10765	16 23 30.524	−47 26 33.93
−47°13121	19 48 21.623	−46 59 23.70
−47°14285	22 36 25.47	−47 08 05.6
−48° 3349	07 56 48.169	−49 06 30.34
−48° 3636	08 13 49.648	−49 04 01.50
−48° 4184	08 50 48.01	−49 02 42.8
−48° 6770	11 42 11.027	−49 08 21.42
−48° 9098	14 27 00.328	−49 17 47.29
−48°11033	16 35 45.457	−48 45 09.63
−48°11060	16 37 07.6	−48 43 03.2
−48°11070	16 37 35.138	−48 40 01.19
−48°11071	16 37 40.733	−48 39 29.31
−48°11077	16 37 49.66	−48 40 39.0
−48°11088	16 38 15.33	−48 36 50.8
−48°13615	20 31 51.01	−48 29 40.6
−48°14299	22 41 50.50	−48 25 59.4

CoD

CoD	α_{1950}	δ_{1950}
−49° 141	00 34 14.124	−49 24 20.25
−49° 2909	07 32 17.93	−50 00 49.0
−49° 4692	09 45 53.733	−49 42 38.73
−49° 7644	13 03 58.753	−49 38 19.89
−50° 410	01 30 29.024	−49 47 01.41
−50° 4420	09 41 40.607	−50 59 54.52
−50° 5641	11 01 30.584	−51 04 59.71
−50°12190	18 49 13.745	−50 14 26.92
−51° 1066	04 14 42.867	−51 36 42.99
−51° 3420	08 59 03.648	−52 21 31.73
−51° 7566	13 28 31.522	−51 30 52.20
−52° 858	04 06 11.668	−52 42 00.44
−52° 2484	08 38 32.028	−52 52 36.32
−52° 2487	08 38 51.636	−52 44 37.11
−52° 2506	08 40 59.363	−52 56 01.48
−52° 2674	08 54 48.708	−52 31 50.25
−52° 2772	09 03 41.863	−53 00 42.74
−52° 9130	19 25 46.	−52 26 18.
−53° 7423	17 46 24.124	−53 35 53.52
−54° 1344	06 09 19.403	−54 57 24.59
−54° 1411	06 19 59.828	−54 31 28.63
−54° 2757	09 20 33.853	−54 47 47.30
−54° 5438	13 49 24.087	−55 17 40.37
−54° 5601	14 10 15.197	−54 23 31.03
−55° 267	01 06 17.251	−55 30 45.72
−55° 568	02 39 06.229	−54 45 48.15
−55° 3694	10 49 13.366	−56 08 41.97
−55° 5858	14 47 26.	−55 42 42.

CoD

CoD	α_{1950}	δ_{1950}
−56° 2757	09 23 58.629	−57 08 43.50
−56° 3287	10 17 46.531	−57 09 12.71
−56° 3558	10 44 17.265	−56 33 56.09
−56° 6482	16 35 34.799	−56 53 45.99
−56° 6744	17 09 59.427	−56 49 49.71
−56° 6944	17 33 50.722	−56 47 28.93
−56° 7036	17 43 00.106	−56 04 52.87
−57° 268	01 20 20.879	−56 59 31.42
−57° 2897	09 52 56.908	−58 11 01.77
−57° 2898	09 53 14.399	−57 29 24.61
−57° 2916	09 55 05.716	−57 24 58.24
−57° 3224	10 25 07.31	−57 25 13.5
−57° 3909	11 22 09.703	−57 27 10.71
−57° 4397	12 14 55.850	−57 53 12.68
−57° 5498	14 13 24.877	−57 37 22.09
−57° 6042	15 34 58.574	−57 32 36.68
−57° 6594	16 47 58.531	−57 10 41.04
−57° 7968	20 21 42.289	−56 53 50.02
−58° 2144	08 30 11.601	−59 03 25.26
−58° 2476	09 09 39.120	−58 45 41.26
−58° 3269	10 24 41.42	−58 23 07.9
−58° 3393	10 34 45.157	−59 05 43.32
−58° 3405	10 35 21.841	−58 58 47.08
−58° 3526	10 41 50.55	−59 17 07.7
−58° 3527	10 42 00.906	−59 17 05.00
−58° 3531s	10 42 12.426	−59 18 48.37
−58° 3545	10 43 46.729	−59 08 39.24
−58° 6699	17 08 38.891	−58 32 11.20
−59° 2020	08 39 30.824	−59 34 55.29
−59° 2460	09 34 57.419	−59 45 39.57
−59° 2700	09 58 57.707	−59 23 39.26
−59° 2985	10 14 11.11	−59 57 56.1
−59° 3202	10 38 11.	−59 56 24.

CoD

CoD	α_{1950}	δ_{1950}
-59° 3221	10 39 22.612	-59 24 54.64
-59° 3251	10 41 15.06	-59 46 26.5
-59° 3253	10 41 20.20	-59 35 20.3
-59° 3254	10 41 20.257	-59 56 18.50
-59° 3279	10 42 04.458	-59 36 41.58
-59° 3284	10 42 15.45	-59 47 34.6
-59° 3287 A	10 42 27.048	-59 43 49.19
-59° 3287 B	10 42 27.048	-59 43 49.19
-59° 3294	10 42 37.396	-59 28 28.04
-59° 3296	10 42 40.81	-59 45 24.7
-59° 3303	10 42 50.86	-59 28 05.1
-59° 3310	10 43 19.94	-59 27 48.8
-59° 3325	10 44 56.97	-59 48 50.8
-59° 3425	10 53 58.015	-60 07 30.74
-59° 3630	11 12 30.44	-60 23 13.1
-59° 3950	11 45 30.48	-60 17 16.0
-59° 4458	12 50 37.653	-60 05 09.62
-59° 4614	13 09 09.247	-59 39 17.43
-59° 4623	13 09 47.153	-59 33 00.38
-59° 4688	13 18 22.400	-60 15 32.94
-59° 4723	13 22 06.824	-59 31 16.74
-59° 7830	21 54 59.023	-59 15 05.97
-60° 3396	11 07 56.867	-60 42 27.02
-60° 3419	11 09 56.419	-60 49 23.03
-60° 3420	11 10 00.	-60 27 06.
-60° 3452	11 12 57.80	-60 59 16.2
-60° 3559	11 25 46.872	-61 08 08.32
-60° 3794	11 48 04.320	-60 30 56.21
-60° 3818	11 49 59.812	-61 14 45.12
-60° 3971	12 03 31.46	-60 58 42.4
-60° 4639	13 19 20.755	-60 42 38.14
-60° 5539	15 12 53.078	-60 46 24.48
-60° 6363	16 34 56.592	-60 51 46.87

CoD

CoD	α_{1950}	δ_{1950}
-61° 1394	06 30 40.787	-61 50 32.16
-61° 2766	10 41 02.63	-62 07 48.1
-61° 3158	11 40 26.17	-62 09 26.2
-61° 3165	11 41 21.54	-61 27 56.7
-61° 3203	11 45 33.632	-61 55 43.90
-61° 3316	12 00 21.696	-61 53 48.61
-61° 3721	13 13 58.03	-62 21 45.6
-61° 3780	13 24 04.276	-61 36 52.54
-61° 3841	13 30 07.1	-62 03 36.
-61° 5651	16 49 05.67	-61 30 14.5
-62° 114	02 50 42.701	-61 49 26.69
-62° 546	11 35 11.924	-63 04 14.28
-62° 604	12 00 27.869	-63 02 04.11
-62° 610	12 01 43.859	-62 53 14.26
-62° 615	12 03 09.31	-63 13 32.0
-62° 651	12 23 43.075	-62 50 42.31
-62° 652 A	12 23 48.064	-62 49 19.43
-62° 652 B	12 23 48.870	-62 49 21.48
-62° 935	15 21 49.326	-63 15 05.79
-62° 937	15 23 30.115	-62 50 47.61
-62° 1009	15 59 23.458	-62 33 19.62
-63° 578	10 41 10.052	-64 07 55.36
-63° 593	10 44 39.915	-63 59 58.06
-63° 799	12 58 45.99	-64 21 28.1
-64° 189	05 32 43.056	-64 15 37.10
-64° 520	11 04 18.018	-65 14 21.13
-64° 699	13 04 52.075	-65 02 21.47
-65° 1101	11 28 56.052	-65 27 59.47
-65° 1311	12 36 56.818	-66 14 12.09

CoD

CoD	α_{1950}	δ_{1950}
-66° 33	00 40 20.698	-65 44 32.93
-66° 877	10 21 29.101	-66 38 53.18
-66° 2071	17 12 18.174	-66 53 40.35
-67° 1010	11 03 49.62	-68 21 44.8
-67° 1385	13 11 49.986	-67 37 48.79
-67° 2082	17 18 14.145	-67 52 52.54
-68° 528	08 07 46.613	-68 28 12.53
-68° 1028	12 03 12.748	-69 17 41.03
-69° 324	05 39 03.476	-69 07 35.21
-69° 461	07 37 48.94	-69 25 39.5
-69° 1532	16 23 03.880	-69 58 28.74
-69° 1886	19 53 48.115	-68 53 48.54
-70° 1798	20 53 50.503	-70 36 57.94
-70° 1841	21 32 23.080	-70 33 28.79
-71°		
-72° 13	00 15 02.39	-72 11 36.7
-72° 773	12 02 14.82	-72 35 28.8
-73°		

CoD

CoD	α_{1950}	δ_{1950}
-74°		
-75° 26	00 51 26.650	-74 55 23.30
-76°		
-77° 1053	20 58 44.041	-77 13 01.18
-78° 216	05 38 39.383	-78 50 55.65
-78° 342	08 44 58.108	-78 53 15.10
-79°		
-80° 340	09 35 25.599	-80 43 01.70
-81° 172	05 31 45.039	-81 37 23.92
-81° 391	10 42 26.855	-81 46 25.97

CoD

CoD		α_{1950}	δ_{1950}	CoD	α_{1950}	δ_{1950}
−82°						
−83°						
−84°						
−85°	47	04 52 47.738	−84 53 50.59			
−86°						
−87°						
−88°						
−89°						

CPD	α_{1950}	δ_{1950}
−19° 1177	06 16 04.179	−19 56 46.76
−19° 5351	12 59 13.446	−19 30 19.45
−19° 5920	15 50 25.602	−20 01 08.70
−19° 5945	16 02 31.507	−19 40 12.45
−19° 5960	16 09 05.107	−19 19 56.51
−19° 7088	18 45 34.167	−19 44 31.89
−19° 7289	19 03 01.336	−19 33 31.11
−20° 508	04 09 24.399	−20 29 05.34
−20° 2574	07 30 35.866	−20 41 02.30
−20° 3719	08 25 19.808	−20 40 40.27
−20° 4710	09 42 33.	−20 40 42.
−20° 6262	15 54 44.832	−20 50 22.85
−20° 7191	18 44 54.357	−20 19 49.29
−20° 7550	19 19 42.783	−20 44 16.77
−20° 8380	22 31 59.213	−20 07 05.54
−21° 167	01 46 31.80	−21 08 26.7
−21° 6771	18 10 46.324	−21 04 25.46
−21° 7041	18 42 19.553	−21 03 14.40
−21° 8073	22 10 01.260	−21 08 13.60
−21° 8162	22 36 01.287	−20 52 49.35
−22° 381	03 31 34.657	−21 47 57.95
−22° 5522	12 50 52.905	−22 36 06.03
−22° 6090	15 51 44.263	−22 37 10.25
−22° 6106 A	15 57 22.318	−22 28 51.37
−23° 227 A	01 56 40.618	−23 09 44.85
−23° 1588	06 52 08.092	−23 51 51.60
−23° 3476	08 11 22.061	−23 48 03.97
−24° 493	03 57 47.488	−24 09 24.93
−24° 2210	07 16 35.390	−24 27 58.28
−24° 2216	07 16 38.031	−24 51 42.75
−24° 5583	15 50 54.404	−24 23 08.40
−24° 5876	17 18 56.157	−24 57 05.20

CPD

CPD	α_{1950}	δ_{1950}
−24° 6201	18 02 06.467	−24 24 10.84
−24° 6247	18 06 14.180	−23 59 51.90
−24° 6764	19 32 59.586	−24 49 48.90
−24° 6848	19 51 18.212	−24 04 00.88
−25° 2074	07 10 22.20	−25 24 51.8
−25° 2623	07 36 13.100	−25 15 00.39
−25° 3886	08 46 21.553	−25 58 39.08
−25° 4711	11 10 45.689	−26 11 34.26
−25° 5625	15 34 28.166	−26 06 57.22
−25° 5705	15 55 49.301	−25 58 18.14
−25° 5785	16 18 08.667	−25 28 28.14
−25° 6353	18 05 48.436	−25 28 55.10
−25° 6737	19 12 28.524	−25 20 40.36
−26° 43	00 33 59.099	−25 56 55.09
−26° 2013	07 18 53.056	−26 52 08.01
−26° 2694	07 50 03.54	−26 36 33.2
−26° 4440	11 03 31.885	−27 01 02.10
−26° 5863	17 13 08.682	−26 28 33.11
−26° 5987	17 45 20.106	−26 57 32.15
−27° 90	01 03 10.366	−27 13 19.16
−27° 3452	08 49 56.062	−27 17 41.72
−27° 3536	08 57 34.039	−27 37 10.53
−27° 5375	16 09 13.090	−27 47 53.94
−28° 463	04 04 33.905	−27 48 06.36
−28° 817	05 13 33.09	−28 48 26.8
−28° 3116	08 22 40.37	−28 39 56.0
−28° 3764	09 30 06.988	−28 24 24.28
−28° 5237	15 53 47.482	−29 04 10.92
−29° 126	01 10 17.798	−29 26 40.07
−29° 4233	15 35 34.729	−29 36 53.36

CPD	α_{1950}	δ_{1950}
−30° 120	01 08 14.59	−30 21 56.1
−30° 1217	06 18 23.546	−30 02 23.86
−30° 1551	07 08 34.76	−30 34 46.1
−30° 1579	07 11 51.659	−30 59 48.41
−30° 5841	19 04 02.445	−30 14 19.32
−31° 1588	07 27 09.049	−31 21 06.77
−31° 1862	07 43 02.02	−31 47 11.5
−31° 2529	08 40 29.52	−32 09 41.6
−31° 3699	13 50 19.415	−31 40 53.33
−31° 4650	17 15 37.39	−31 31 53.6
−31° 4771	17 27 58.98	−31 20 30.8
−31° 6335	20 42 03.756	−31 31 05.29
−32° 3479	13 42 50.314	−32 47 29.86
−32° 4551	17 25 45.613	−32 57 54.91
−32° 4606	17 31 08.431	−32 28 17.54
−32° 4616	17 31 26.314	−32 32 56.46
−32° 4970	17 52 59.793	−32 28 06.35
−32° 5041	17 58 26.412	−32 42 54.63
−32° 6550	22 53 37.402	−31 49 50.61
−32° 6688	23 52 41.682	−32 11 59.56
−33° 506	04 27 31.924	−33 41 04.34
−33° 938	05 51 17.886	−33 48 40.66
−33° 1122	06 20 17.110	−33 24 35.76
−33° 3933	15 47 46.468	−33 28 35.36
−33° 4421	17 26 47.627	−33 40 41.68
−33° 4477	17 33 34.99	−34 00 49.0
−34° 466	04 16 00.050	−33 55 09.54
−34° 1643	07 43 57.58	−34 12 25.9
−34° 1912	08 00 04.929	−35 09 47.95
−34° 2232	08 16 24.83	−34 46 25.4
−34° 6387	15 39 29.420	−34 33 05.08

CPD

CPD	α_{1950}	δ_{1950}
−34° 6506	16 21 27.670	−34 46 45.74
−34° 7244	17 49 35.252	−35 00 29.22
−34° 7269	17 50 02.726	−35 00 23.38
−34° 7275	17 50 09.20	−34 40 54.6
−34° 7286	17 50 16.89	−34 43 36.3
−34° 7293	17 50 24.00	−34 47 04.8
−34° 7306	17 50 34.637	−34 44 35.62
−34° 7325	17 50 54.378	−34 43 06.20
−34° 7719	18 14 17.236	−34 07 35.38
−34° 9207	22 57 42.167	−34 00 41.25
−35° 1292	07 29 53.564	−35 46 49.34
−35° 4943	11 40 18.375	−35 32 17.06
−35° 6512	15 08 17.021	−36 03 38.08
−35° 7840	18 12 28.406	−35 39 16.25
−35° 8699	19 56 29.133	−35 24 47.51
−36° 1230	07 16 51.450	−36 39 00.62
−36° 5756	12 56 03.953	−36 42 19.24
−36° 6160	13 48 59.555	−36 22 33.15
−36° 6807	15 24 05.522	−36 35 36.61
−36° 7843	17 55 49.486	−36 56 08.06
−37° 1313	07 29 33.686	−37 53 42.19
−37° 1592	07 44 31.772	−37 46 25.62
−37° 2534	08 30 43.51	−37 48 46.2
−37° 4818	11 33 48.240	−37 45 33.32
−37° 6761	16 48 28.679	−37 57 48.92
−37° 6811	16 54 28.533	−37 55 12.01
−37° 6877	17 00 32.697	−37 46 28.76
−37° 7265	17 30 12.626	−37 04 09.63
−37° 7477	17 44 33.75	−37 37 23.5
−37° 8433	18 55 21.086	−37 10 27.98
−38° 208	02 36 23.832	−38 12 17.97
−38° 218	02 41 25.470	−38 08 20.27
−38° 1492	07 38 07.115	−38 25 54.68
−38° 1524	07 39 30.268	−38 24 56.59
−38° 1703	07 50 52.396	−38 43 56.79
−38° 2296	08 24 28.064	−38 53 43.30
−38° 2338	08 26 27.552	−38 48 19.21

CPD

CPD	α_{1950}	δ_{1950}
-39° 1342	07 15 47.	-40 02 12.
-39° 6408	14 39 23.	-40 14 36.
-40° 32	00 24 26.984	-40 09 29.29
-40° 117	01 14 22.35	-39 58 21.6
-40° 3072	09 00 13.184	-40 21 25.29
-40° 6909	15 15 39.095	-40 36 23.40
-40° 6933	15 18 04.851	-40 28 04.92
-40° 7042	15 31 47.980	-41 00 00.69
-40° 7549	16 48 46.79	-40 42 49.7
-40° 7624	16 52 37.153	-40 16 13.24
-40° 7639	16 53 06.857	-40 44 43.53
-40° 9036	19 30 42.947	-40 08 37.91
-41° 2162	08 06 32.407	-41 52 58.70
-41° 2337	08 15 55.185	-41 33 05.63
-41° 2999	08 46 42.283	-42 12 52.63
-41° 3027	08 47 57.715	-41 33 22.66
-41° 3040	08 48 31.719	-41 54 08.36
-41° 6479	13 46 29.739	-41 26 21.52
-41° 7651	16 46 31.310	-41 32 08.29
-41° 7673	16 48 48.358	-41 46 16.53
-41° 7707	16 50 24.570	-41 47 59.48
-41° 7709	16 50 27.600	-41 54 47.89
-41° 7713	16 50 29.301	-41 38 00.94
-41° 7728	16 50 39.035	-41 44 39.16
-41° 7733	16 50 42.242	-41 45 40.46
-41° 7741	16 50 48.747	-41 44 20.88
-41° 7742	16 50 48.88	-41 45 18.7
-41° 7754	16 51 05.662	-41 20 33.89
-42° 365	03 47 28.63	-42 45 59.0
-42° 2793	08 38 20.08	-42 39 01.5
-42° 3467	09 10 58.303	-43 16 52.18
-42° 6864	14 56 35.57	-42 47 02.9
-42° 7441	16 32 51.149	-42 45 26.77

CPD

CPD	α_{1950}	δ_{1950}
-42° 8616	19 06 26.482	-41 58 25.53
-42° 8912	19 44 12.64	-42 07 51.5
-42° 9342	21 48 46.938	-42 36 28.98
-43° 710	05 51 57.204	-43 34 01.76
-43° 5682	12 06 18.122	-44 02 49.38
-43° 7637	16 35 19.607	-44 03 32.38
-43° 8543	18 15 11.385	-43 22 52.61
-43° 8691	18 34 04.330	-42 59 55.58
-44° 285	02 32 28.419	-44 00 38.92
-44° 1096	06 46 34.846	-44 15 33.53
-44° 1710	07 34 40.891	-44 50 40.50
-44° 3096	08 46 29.67	-44 41 13.3
-44° 6453	13 36 22.63	-44 50 41.2
-44° 7228	15 09 27.473	-44 18 46.87
-44° 7342	15 19 16.541	-44 30 40.82
-44° 7817	16 13 35.68	-44 51 55.6
-45° 2957	08 43 05.61	-45 47 58.2
-45° 7780	16 01 22.456	-46 09 27.41
-45° 9323	18 28 03.240	-45 57 02.52
-45° 9330	18 28 20.113	-45 47 37.72
-45°10393	23 07 32.182	-45 31 04.35
-46° 1770	07 46 00.808	-46 29 00.76
-46° 2202	08 07 59.465	-47 11 18.31
-46° 2281	08 12 02.251	-46 50 21.54
-46° 2383	08 16 26.576	-46 56 06.24
-46° 3120	08 48 51.625	-46 20 29.20
-46° 6560	13 52 24.510	-47 02 34.87
-46° 8391	17 03 19.261	-46 56 13.25
-46°10100	20 51 17.391	-45 55 16.81
-47° 351	03 29 00.652	-47 32 42.06
-47° 491	04 47 32.024	-47 13 14.59
-47° 620	05 34 41.153	-47 20 36.96
-47° 2296	08 27 29.901	-47 45 40.37
-47° 2578	08 40 39.102	-47 55 07.79

CPD

CPD	α_{1950}	δ_{1950}
-47° 2912	08 53 18.216	-47 24 03.05
-47° 4373	10 35 11.747	-47 57 55.48
-47° 6410	14 07 28.904	-47 31 59.91
-47° 7696	16 23 30.524	-47 26 33.93
-47° 9372	19 48 21.623	-46 59 23.70
-48° 1373	07 56 48.169	-49 06 30.34
-48° 1577	08 13 49.648	-49 04 01.50
-48° 2002	08 50 48.01	-49 02 42.8
-48° 4174	11 42 11.027	-49 08 21.42
-48° 6496	14 27 00.328	-49 17 47.29
-48° 8660	16 35 45.457	-48 45 09.63
-48° 8694	16 37 07.60	-48 43 03.2
-48° 8703 A	16 37 35.138	-48 40 01.19
-48° 8705	16 37 40.733	-48 39 29.31
-48° 8712	16 37 49.66	-48 40 39.0
-48° 8726	16 38 15.33	-48 36 50.8
-48°10806	22 41 50.50	-48 25 59.4
-49° 79	00 34 14.124	-49 24 20.25
-49° 1276	07 32 17.93	-50 00 49.0
-49° 2791	09 45 53.733	-49 42 38.73
-49° 5733	13 03 58.753	-49 38 19.89
-50° 204	01 30 29.024	-49 47 01.41
-50° 2636	09 41 40.607	-50 59 54.52
-50° 3903	11 01 30.584	-51 04 59.71
-50°10862	18 49 13.745	-50 14 26.92
-51° 524	04 14 42.867	-51 36 42.99
-51° 1811	08 59 03.648	-52 21 31.73
-51° 6128	13 28 31.522	-51 30 52.20
-52° 497	04 06 11.668	-52 42 00.44
-52° 1579	08 38 32.028	-52 52 36.32
-52° 1583	08 38 51.636	-52 44 37.11
-52° 1607	08 40 59.363	-52 56 01.48
-52° 1788	08 54 48.708	-52 31 50.25

CPD	α_{1950}	δ_{1950}
-52° 1916	09 03 41.863	-53 00 42.74
-52°11456	19 25 46.	-52 26 18.
-53° 8799	17 46 24.124	-53 35 53.52
-54° 980	06 09 19.403	-54 57 24.59
-54° 1026	06 19 59.828	-54 31 28.63
-54° 2219	09 20 33.853	-54 47 47.30
-54° 5772	13 49 24.087	-55 17 40.37
-54° 5933	14 10 15.197	-54 23 31.03
-55° 241	01 06 17.251	-55 30 45.72
-55° 446	02 39 06.229	-54 45 48.15
-55° 3917	10 49 13.366	-56 08 41.97
-55° 6204	14 47 26.	-55 42 42.
-56° 495	03 05 40.	-56 19 36.
-56° 2154	09 23 58.629	-57 08 43.50
-56° 3131	10 17 46.531	-57 09 12.71
-56° 3783	10 44 17.265	-56 33 56.09
-56° 7804	16 35 34.799	-56 53 45.99
-56° 8098	17 09 59.427	-56 49 49.71
-56° 8348	17 33 50.722	-56 47 28.93
-56° 8436	17 43 00.106	-56 04 52.87
-57° 296	01 20 20.879	-56 59 31.42
-57° 2418	09 52 56.908	-58 11 01.77
-57° 2420	09 53 14.399	-57 29 24.61
-57° 2451	09 55 05.716	-57 24 58.24
-57° 3237	10 25 07.31	-57 25 13.5
-57° 4668	11 22 09.703	-57 27 10.71
-57° 5375	12 14 55.850	-57 53 12.68
-57° 6572	14 13 24.877	-57 37 22.09
-57° 7121	15 34 58.574	-57 32 36.68
-57° 8150	16 47 58.531	-57 10 41.04

CPD	α_{1950}	δ_{1950}
−57° 9674	20 21 42.289	−56 53 50.02
−58° 1143	08 30 11.601	−59 03 25.26
−58° 1419	09 09 39.120	−58 45 41.26
−58° 2205	10 24 41.42	−58 23 07.9
−58° 2386	10 34 45.157	−59 05 43.32
−58° 2404	10 35 21.841	−58 58 47.08
−58° 2611	10 41 50.55	−59 17 07.7
−58° 2617	10 42 00.906	−59 17 05.00
−58° 2631s	10 42 12.426	−59 18 48.37
−58° 2680	10 43 46.729	−59 08 39.24
−58° 2839	10 51 35.64	−59 11 18.7
−58° 2845	10 51 43.77	−59 14 47.2
−58° 7014	17 08 38.891	−58 32 11.20
−59° 1080	08 39 30.824	−59 34 55.29
−59° 1428	09 34 57.419	−59 45 39.57
−59° 1616	09 58 57.707	−59 23 39.26
−59° 2007	10 14 11.11	−59 57 56.1
−59° 2401	10 38 11.	−59 56 24.
−59° 2450	10 39 22.612	−59 24 54.64
−59° 2517	10 41 15.06	−59 46 26.5
−59° 2519	10 41 20.20	−59 35 20.3
−59° 2521	10 41 20.257	−59 56 18.50
−59° 2556	10 42 04.458	−59 36 41.58
−59° 2563	10 42 15.45	−59 47 34.6
−59° 2572 A	10 42 27.048	−59 43 49.19
−59° 2572 B	10 42 27.048	−59 43 49.19
−59° 2587	10 42 37.396	−59 28 28.04
−59° 2593	10 42 40.81	−59 45 24.7
−59° 2603	10 42 50.86	−59 28 05.1
−59° 2628	10 43 11.67	−59 25 01.6
−59° 2641	10 43 19.94	−59 27 48.8
−59° 2655	10 43 50.01	−59 49 24.3
−59° 2687	10 44 56.97	−59 48 50.8

CPD	α_{1950}	δ_{1950}
−59° 2855	10 53 58.015	−60 07 30.74
−59° 3241	11 12 30.44	−60 23 13.1
−59° 3809	11 45 30.48	−60 17 16.0
−59° 4543	12 50 37.653	−60 05 09.62
−59° 4551	12 50 47.27	−60 03 37.5
−59° 4815	13 09 09.247	−59 39 17.43
−59° 4827	13 09 47.153	−59 33 00.38
−59° 4923	13 18 22.400	−60 15 32.94
−59° 4971	13 22 06.824	−59 31 16.74
−59° 7744	21 54 59.023	−59 15 05.97
−60° 2578	11 07 56.867	−60 42 27.02
−60° 2638	11 09 56.419	−60 49 23.03
−60° 2640	11 10 00.	−60 27 06.
−60° 2732	11 12 57.80	−60 59 16.2
−60° 2965	11 25 46.872	−61 08 08.32
−60° 3415	11 48 04.320	−60 30 56.21
−60° 3454	11 49 59.812	−61 14 45.12
−60° 3723	12 03 31.46	−60 58 42.4
−60° 4627 B	13 19 20.755	−60 42 38.14
−60° 5701	15 12 53.078	−60 46 24.48
−60° 6595	16 34 56.592	−60 51 46.87
−61° 669	06 30 40.787	−61 50 32.16
−61° 1823	10 41 02.63	−62 07 48.1
−61° 2551	11 40 26.17	−62 09 26.2
−61° 2564	11 41 21.54	−61 27 56.7
−61° 2636	11 45 33.632	−61 55 43.90
−61° 2914	12 00 21.696	−61 53 48.61
−61° 2945	12 02 42.8	−61 46 26.
−61° 3558	13 13 58.03	−62 21 45.6
−61° 3704	13 24 04.276	−61 36 52.54
−61° 3791	13 30 07.1	−62 03 36.
−61° 5799	16 49 05.67	−61 30 14.5

CPD	α_{1950}	δ_{1950}
−62° 238	02 50 42.701	−61 49 26.69
−62° 2151	11 35 11.924	−63 04 14.28
−62° 2189	11 36 49.17	−63 08 37.5
−62° 2543	12 00 27.869	−63 02 04.11
−62° 2561	12 01 43.859	−62 53 14.26
−62° 2575	12 03 09.31	−63 13 32.0
−62° 2742	12 23 43.075	−62 50 42.31
−62° 2745 A	12 23 48.064	−62 49 19.43
−62° 2745 B	12 23 48.870	−62 49 21.48
−62° 4477	15 21 49.326	−63 15 05.79
−62° 4482	15 23 30.115	−62 50 47.61
−62° 5141	15 59 23.458	−62 33 19.62
−62° 5265	16 13 52.	−62 36 48.
−63° 1394	10 23 21.	−63 23 00.
−63° 1599	10 41 10.052	−64 07 55.36
−63° 1649	10 44 39.915	−63 59 58.06
−63° 2485	12 58 45.99	−64 21 28.1
−63° 2495	12 59 38.5	−63 33 59.
−64° 456	05 32 43.056	−64 15 37.10
−64° 1629	11 04 18.018	−65 14 21.13
−64° 2183	13 04 52.075	−65 02 21.47
−64° 2941	14 33 17.76	−64 32 24.3
−65° 1675	11 28 56.052	−65 27 59.47
−65° 1941	12 36 56.818	−66 14 12.09
−66° 47	00 40 20.698	−65 44 32.93
−66° 1243	10 21 29.101	−66 38 53.18
−66° 3080	17 12 18.174	−66 53 40.35
−67° 433	05 26 10.14	−67 32 25.2
−67° 1645	11 03 49.62	−68 21 44.8
−67° 2224	13 11 49.986	−67 37 48.79
−67° 3312	17 18 14.145	−67 52 52.54

CPD	α_{1950}	δ_{1950}
−68° 736	08 07 46.613	−68 28 12.53
−68° 1612	12 03 12.748	−69 17 41.03
−69° 389	05 32 08.18	−69 55 06.7
−69° 409	05 36 20.69	−69 13 35.0
−69° 442	05 38 09.57	−69 06 44.3
−69° 452 Aa	05 39 02.11	−69 06 45.5
−69° 453	05 39 02.90	−69 06 30.3
−69° 456	05 39 03.476	−69 07 35.21
−69° 464	05 39 17.84	−69 07 37.3
−69° 756	07 37 48.94	−69 25 39.5
−69° 2558	16 23 03.880	−69 58 28.74
−69° 3073	19 53 48.115	−68 53 48.54
−70° 2812	20 53 50.503	−70 36 57.94
−70° 2860	21 32 23.08	−70 33 28.79
−71° 2462	19 43 07.68	−71 08 59.8
−72° 23	00 15 02.39	−72 11 36.7
−72° 1201	12 02 14.82	−72 35 28.8
−73°		
−74°		

CPD

CPD	α_{1950}	δ_{1950}
−75° 68	00 51 26.650	−74 55 23.30
−76°		
−77° 1474	20 58 44.041	−77 13 01.18
−78° 195	05 38 39.383	−78 50 55.65
−78° 378	08 44 58.108	−78 53 15.10
−79°		
−80° 365	09 35 25.599	−80 43 01.70
−81° 148	05 31 45.039	−81 37 23.92
−81° 467	10 42 26.855	−81 46 25.97
−82°		

CPD

CPD	α_{1950}	δ_{1950}
−83°		
−84°		
−85° 55	04 52 47.738	−84 53 50.59
−86°		
−87°		
−88°		
−89°		

CSV

CSV	α_{1950}	δ_{1950}
14	00 08 51.66	−11 45 25.3
25	00 12 06.	+54 23
34	00 16 31.	+41 11 24.
38	00 17 52.099	+39 56 57.05
108	00 53 11.	−02 22 00.
146	01 27 12.654	+62 28 03.12
168	01 47 11.	−19 52 36.
192	02 05 59.297	+40 33 28.73
215	02 22 41.45	+27 52 21.3
239	02 39 02.	+43 08 36.
275	03 05 40.	−56 19 36.
308	03 27 54.488	+49 02 24.24
347	03 45 16.	+22 10 12.
357	03 47 28.63	−42 45 59.0
359	03 49 30.314	−10 40 39.05
368	03 56 06.773	+48 00 36.22
377	04 03 28.216	+32 15 04.95
382	04 04 33.905	−27 48 06.36
389	04 09 45.	−06 09 12.
392	04 12 47.27	−46 34 30.2
416	04 29 29.79	+17 38 45.2
423	04 33 34.82	+44 06 39.6
441	04 46 03.	+40 25
482	05 00 36.	+26 19
579	05 26 29.	−03 36 12.
633	05 34 39.263	+21 06 50.00
723	06 10 29.	+45 31 06.
729	06 15 16.	+49 44
783	06 33 26.	+07 54 18.
977	07 07 28.18	+02 59 53.8
1014	07 15 47.	−40 02 12.
1069	07 28 58.61	−10 15 24.5
1088	07 32 17.93	−50 00 49.0
1102	07 37 37.	+04 00 00.
1162	07 50 17.	−10 35
1163	07 50 03.54	−26 36 33.2
1202	08 00 00.4	+01 51 38.
1210	08 04 16.873	+41 56 47.10
1244	08 08 49.94	−76 23 11.6
1369	08 46 21.553	−25 58 39.08

CSV

CSV	α_{1950}	δ_{1950}
1381	08 52 35.29	+11 31 12.0
1397	08 58 58.19	+26 53 17.9
1500	09 43 56.	+45 59 48.
1508	09 46 49.54	+34 41 16.9
1692	10 59 34.162	+10 09 53.23
1819	12 02 14.82	−72 35 28.8
1959	12 54 11.3	+26 52 55.
1962	12 56 03.953	−36 42 19.24
2049	13 36 22.63	−44 50 41.2
2162	14 34 41.5	−38 37 43.
2182	14 39 23.	−40 14 36.
2201	14 47 26.	−55 42 42.
2228	14 56 35.57	−42 47 02.9
2282	15 09 40.88	−64 54 31.0
2651	16 18 43.	−03 56 14.
2709	16 26 13.	−05 43 56.
2979	17 06 31.	−27 14 54.
3809	18 06 50.	+01 22 36.
3933	18 12 44.	+06 47
4520	19 03 49.111	−17 10 56.30
4539	19 05 44.34	+43 56 20.7
4658	19 21 23.12	+48 06 18.6
4693	19 27 20.	+42 59 24.
4758	19 36 24.	+12 09 06.
4762	19 36 20.300	+35 44 34.78
4779	19 39 30.	+21 38 48.
4852	19 49 30.7	+23 45 30.
5198	20 31 51.01	−48 29 40.6
5243	20 35 42.	+50 06 00.
5294	20 51 17.391	−45 55 16.81
5295	20 53 50.503	−70 36 57.94
5342	21 03 45.	+00 43
5583	22 36 25.47	−47 08 05.6
5609	22 44 18.21	−43 00 29.1
5790	23 44 44.16	−08 21 45.3
5810	23 53 02.700	+57 08 02.20
5816	23 56 10.880	+60 52 58.18
5867	00 37 17.628	+49 57 53.84
5896	01 08 14.59	−30 21 56.1
5906	01 14 22.35	−39 58 21.6

CSV

CSV	α_{1950}	δ_{1950}
5941	01 40 40.82	+79 49 52.4
5949	01 48 22.38	−47 13 18.3
5973	02 16 35.776	+78 40 55.14
5987	02 23 37.678	−15 33 54.52
6018	03 12 53.372	+34 30 18.42
6035	03 29 00.652	−47 32 42.06
6039	03 34 13.130	+00 25 32.96
6101	04 14 42.867	−51 36 42.99
6147	05 04 17.196	−04 43 14.92
6305	05 33 40.476	−01 13 56.30
6398	05 44 51.095	+43 03 59.45
6401	05 45 05.621	−10 32 58.15
6409	05 51 17.886	−33 48 40.66
6415	05 59 37.854	+09 38 56.35
6433	06 09 19.403	−54 57 24.59
6435	06 12 33.75	+28 36 10.3
6527	06 52 08.092	−23 51 51.60
6567	07 11 51.659	−30 59 48.41
6576	07 16 38.031	−24 51 42.75
6586	07 24 26.357	+08 23 29.89
6619	08 07 59.465	−47 11 18.31
6628	08 19 29.490	+45 37 04.05
6651	08 38 51.636	−52 44 37.11
6654	08 39 30.824	−59 34 55.29
6667	08 44 58.108	−78 53 15.10
6676	09 00 13.775	+38 17 47.88
6698	09 09 39.120	−58 45 41.26
6735	09 35 25.599	−80 43 01.70
6797	10 42 27.048	−59 43 49.19
6814	11 03 31.885	−27 01 02.10
6822	11 08 30.	+46 42
6830	11 14 26.026	−06 51 41.86
6858	11 41 27.	+23 37
6977	12 58 17.75	+12 38 42.7
6984	13 00 56.027	+36 53 06.23
6999	13 09 09.247	−59 39 17.43
7024	13 19 20.755	−60 42 38.14
7106	14 10 15.197	−54 23 31.03
7169	15 07 06.38	−79 20 04.4
7175	15 12 53.078	−60 46 24.48

CSV

CSV	α_{1950}	δ_{1950}
7265	15 33 07.055	+64 04 22.39
7409	16 34 40.598	+14 34 30.70
7442	16 39 45.	−56 46 36.
7450	16 40 59.	−54 53 42.
7458	16 42 01.	−61 20 48.
7470	16 43 25.	−55 18 36.
7488	16 47 54.51	−73 57 53.2
7496	16 47 58.531	−57 10 41.04
7520	16 50 39.035	−41 44 39.16
7538	16 53 06.857	−40 44 43.53
7612	17 12 01.35	−65 29 42.6
7681	17 33 50.722	−56 47 28.93
7728	17 50 34.637	−34 44 35.62
7932	18 42 35.	−03 02 00.
8040	18 53 13.	−00 05 24.
8130	19 11 35.	+12 12 37.
8172	19 24 55.820	+52 20 47.70
8253	19 43 07.68	−71 08 59.8
8349	19 55 31.	−39 04 06.
8565	20 42 03.756	−31 31 05.29
8605	20 55 55.845	−14 40 39.39
8632	21 09 32.920	+55 07 36.53
8645	21 15 56.356	+58 24 03.42
8655	21 24 17.421	+13 28 14.79
8697	21 49 43.	+42 55 18.
8739	22 00 23.540	+57 45 30.82
8787	22 40 34.934	+53 09 20.58
8788	22 41 50.50	−48 25 59.4
8815	23 00 04.241	+62 14 34.90
8853	23 24 42.935	+45 16 50.44
8857	23 26 21.5	−30 03 17.
8883	23 46 05.315	+57 28 15.71
8901	23 56 13.367	+46 08 05.56
100009	00 10 39.447	+14 54 20.57
100041	00 32 40.390	−03 52 04.29
100055	00 40 41.378	+46 45 04.98
100093	01 11 01.311	+24 19 04.65
100094	01 11 08.335	+07 18 52.03
100146	01 51 52.340	+20 33 52.09
100232	02 46 29.840	+17 15 27.29

CSV

CSV	α_{1950}	δ_{1950}
100253	03 03 48.046	+81 16 50.48
100301	03 41 10.603	+32 07 53.49
100357	03 50 58.959	+31 44 12.55
100363	03 54 29.432	+39 52 02.54
100364	03 55 42.825	+35 38 56.50
100368	04 05 01.311	+47 34 51.78
100396	04 32 54.244	+10 03 35.07
100415	04 48 32.421	+05 31 16.34
100441	05 03 00.214	+41 10 08.38
100460	05 12 59.466	+45 56 58.04
100485	05 23 12.686	+00 28 38.36
100487	05 24 12.930	+03 03 14.26
100581	05 32 48.356	−05 25 07.95
100593	05 32 55.034	−04 52 10.86
100598	05 32 55.469	−05 26 50.89
100599	05 32 58.911	−05 26 52.21
100606	05 33 05.918	−03 17 02.12
100649	05 35 00.528	−05 58 02.16
100671	05 38 14.044	−01 58 03.05
100710	06 00 29.692	+19 41 35.51
100751	06 34 43.220	+06 10 44.47
100890	07 40 11.374	+29 00 22.23
101005	08 49 06.951	−06 59 19.68
101025	09 05 02.414	+10 52 14.13
101095	10 02 41.299	−12 49 17.50
101121	10 19 21.469	+41 45 06.25
101122	10 20 33.038	+65 49 12.47
101151	10 39 22.612	−59 24 54.64
101230	11 52 29.996	+46 45 18.12
101262	12 16 09.	+40 18 18.
101297	12 32 35.859	+18 39 07.47
101381	13 21 54.916	+55 11 09.46
101405	13 46 29.739	−41 26 21.52
101425	14 03 01.963	+64 36 51.57
101439	14 16 23.969	−13 08 30.89
101496	15 18 04.851	−40 28 04.92
101544	15 59 26.291	+29 59 23.49
101548	16 02 31.507	−19 40 12.45
101578	16 18 08.667	−25 28 28.14
101580	16 19 42.738	+19 16 09.32

CSV

CSV	α_{1950}	δ_{1950}
101593	16 28 04.105	+21 35 50.16
101620	16 55 08.726	+52 46 31.80
101629	16 43 45.610	+86 31 58.37
101654	17 23 58.550	−05 02 38.50
101659	17 31 26.314	−32 32 56.46
101662	17 32 36.697	+12 35 41.94
101670	17 38 03.064	+46 01 55.28
101716	18 03 47.520	+79 59 48.27
101729	18 21 28.502	+71 18 42.09
101756	18 41 37.182	−01 36 21.90
101757	18 41 58.	−03 03
101760	18 41 39.774	+55 29 17.40
101763	18 43 02.931	+37 33 06.40
101774	18 49 44.326	+13 54 15.54
101781	18 51 58.664	+36 54 29.44
101817	19 12 03.285	+39 03 32.22
101860	19 32 59.586	−24 49 48.90
101894	19 46 56.044	+33 18 40.04
101949	20 08 21.611	+36 01 39.80
101974	20 15 08.535	+37 16 03.40
101979	20 17 13.390	+46 09 52.89
101983	20 21 42.289	−56 53 50.02
102017	20 39 43.539	+45 06 03.12
102031	20 47 21.142	+07 40 37.88
102041	20 51 28.521	+44 11 49.78
102049	20 58 07.395	+47 19 30.08
102055	21 03 06.589	+43 43 39.33
102080	21 15 26.951	+39 11 03.50
102291	23 52 41.682	−32 11 59.56
102301	00 03 26.837	+63 24 05.25
102323	00 21 33.308	+51 44 34.74
102376	02 09 04.989	+44 25 32.18
102422	03 44 41.964	+33 26 48.35
102509	06 19 59.828	−54 31 28.63
102659	11 04 18.018	−65 14 21.13
102690	12 01 43.859	−62 53 14.26
102697	12 17 48.976	+26 53 54.44
102782	15 55 49.301	−25 58 18.14
102799	16 25 05.689	−08 15 41.15
102879	18 32 44.674	+51 40 59.90

CSV

CSV	α_{1950}	δ_{1950}
102898	18 59 13.272	+20 45 37.79
102915	19 14 03.958	+21 18 03.00
102981	20 04 04.633	+35 38 38.28
102983	20 10 17.128	+38 12 15.05
102991	20 12 39.405	+36 30 28.15
103103	22 48 06.137	+41 41 17.91
103136	23 54 36.576	+55 25 39.25

CSV

CSV	α_{1950}	δ_{1950}

FK4

FK4	α_{1950}	δ_{1950}
1	00 05 47.841	+28 48 52.12
2	00 06 29.735	+58 52 26.77
7	00 10 39.447	+14 54 20.57
18	00 34 12.186	+33 26 39.75
24	00 42 18.429	+74 42 54.68
25	00 41 55.654	+48 00 40.00
27	00 44 40.968	+23 59 43.95
57	01 40 30.757	+50 26 15.92
64	01 50 13.440	+29 20 10.14
66	01 51 52.340	+20 33 52.09
75	02 06 33.579	+34 45 06.52
92	02 40 29.543	+67 36 50.37
111	03 04 54.356	+40 45 52.46
123	03 24 27.329	+09 33 35.17
127	03 30 34.355	−09 37 34.76
135	03 40 51.035	−09 55 53.05
136	03 41 54.055	+23 57 27.82
139	03 44 30.424	+23 57 07.57
144	03 50 58.959	+31 44 12.55
147	03 54 29.432	+39 52 02.54
148	03 55 42.825	+35 38 56.50
150	03 57 54.378	+12 21 02.13
152	04 05 01.311	+47 34 51.78
157	04 14 42.867	−51 36 42.99
174	04 39 14.403	+22 51 46.00
176	04 42 59.993	−03 20 41.33
178	04 49 03.825	+66 15 38.64
179	04 48 32.421	+05 31 16.34
180	04 51 38.661	+02 21 37.24
185	05 03 00.214	+41 10 08.38
193	05 12 59.466	+45 56 58.04
206	05 29 27.017	−00 20 04.41
209	05 32 59.126	−05 56 28.26
210	05 33 40.476	−01 13 56.30
211	05 34 39.263	+21 06 50.00
227	05 55 51.579	+44 56 40.69
232	06 04 42.949	+14 46 34.32
235	06 09 19.403	−54 57 24.59
240	06 18 23.546	−30 02 23.86
244	06 21 07.050	+04 37 11.68

FK4

FK4	α_{1950}	δ_{1950}
251	06 34 49.396	+16 26 37.40
280	07 18 47.691	+55 22 40.73
285	07 24 26.357	+08 23 29.89
287	07 31 24.635	+31 59 57.61
287	07 31 24.673	+32 00 00.53
309	08 07 59.465	−47 11 18.31
353	09 20 33.853	−54 47 47.30
357	09 30 05.838	+70 03 06.47
360	09 31 09.969	+36 37 14.38
365	09 38 29.008	+10 07 14.64
374	09 54 37.760	+41 17 40.83
387	10 20 33.038	+65 49 12.47
396	10 19 21.469	+41 45 06.25
406	10 41 10.052	−64 07 55.36
454	12 09 52.843	+77 53 38.20
462	12 23 48.064	−62 49 19.43
472	12 31 21.550	+70 03 48.96
489	13 03 58.753	−49 38 19.89
493	13 11 49.986	−67 37 48.79
497	13 21 54.916	+55 11 09.46
498	13 22 33.301	−10 54 03.36
502	13 32 33.917	+37 26 16.62
506	13 42 50.314	−32 47 29.86
512	13 52 24.510	−47 02 34.87
521	14 03 01.963	+64 36 51.57
522	14 08 07.066	+25 19 39.84
578	15 32 34.145	+26 52 54.75
586	15 47 46.468	−33 28 35.36
592	15 55 49.301	−25 58 18.14
594	15 57 22.318	−22 28 51.37
597	16 02 31.507	−19 40 12.45
598	16 00 56.829	+58 41 53.69
607	16 18 08.667	−25 28 28.14
609	16 19 42.738	+19 16 09.32
610	16 23 03.880	−69 58 28.74
618	16 28 04.105	+21 35 50.16
634	16 58 22.471	+30 59 55.92
644	17 18 56.157	−24 57 05.20
647	17 23 58.550	−05 02 38.50
652	17 30 12.626	−37 04 09.63

FK4	α_{1950}	δ_{1950}
656	17 32 36.697	+12 35 41.94
658	17 34 43.274	−15 22 07.81
663	17 38 03.064	+46 01 55.28
664	17 37 14.348	+68 46 52.48
682	18 10 46.324	−21 04 25.46
705	18 48 13.936	+33 18 12.51
727	19 18 51.834	−16 03 01.82
751	19 56 29.133	−35 24 47.51
756	20 08 43.494	−00 58 16.06
762	20 18 12.200	−14 56 26.57
764	20 21 42.289	−56 53 50.02
777	20 39 43.539	+45 06 03.12
787	20 58 44.041	−77 13 01.18
792	21 03 06.589	+43 43 39.33
793	21 04 39.935	+38 29 59.10
809	21 28 01.326	+70 20 27.85
813	21 37 24.390	+57 15 44.56
819	21 44 16.993	−16 21 18.42
821	21 44 56.560	+49 04 39.35
823	21 50 47.084	+25 41 20.87
831	22 04 40.836	+25 06 00.71
869	22 59 36.882	+42 03 25.50
890	23 35 06.520	+46 11 13.83
902	23 56 44.494	+06 35 11.41
912	16 51 00.905	+82 07 21.54
1002	00 02 46.530	−05 59 13.96
1020	00 46 20.792	+16 40 15.74
1021	00 47 02.830	+40 48 25.23
1035	01 19 23.103	+45 16 02.87
1052	01 48 57.679	+50 32 47.91
1076	02 39 06.229	−54 45 48.15
1091	03 13 24.143	−09 00 15.50
1099	03 31 34.657	−21 47 57.95
1103	03 37 46.777	+25 10 09.75
1104	03 43 00.821	+05 53 41.52
1142	05 06 34.444	+09 46 01.19
1158	05 50 10.984	+27 36 08.48
1163	06 01 04.774	+23 16 04.51
1170	06 17 18.205	−07 48 01.79
1177	06 43 48.773	+08 38 30.21

FK4

FK4	α_{1950}	δ_{1950}
1203	07 46 00.808	−46 29 00.76
1227	08 38 51.636	−52 44 37.11
1238	09 05 02.414	+10 52 14.13
1261	10 02 41.299	−12 49 17.50
1281	10 47 47.457	−08 37 56.58
1293	11 16 24.722	+38 27 36.38
1308	11 53 06.284	+15 55 30.08
1358	13 44 23.997	+25 57 08.51
1370	14 15 52.952	+35 44 21.87
1371	14 16 23.969	−13 08 30.89
1394	14 58 17.808	−08 19 18.19
1402	15 18 04.851	−40 28 04.92
1415	15 50 25.602	−20 01 08.70
1429	16 21 44.526	+07 03 44.55
1433	16 33 43.677	−02 13 10.02
1439	16 48 28.679	−37 57 48.92
1453	17 13 59.357	+01 15 53.07
1479	18 24 02.968	+29 47 56.13
1480	18 27 04.776	−02 01 09.27
1492	18 45 35.976	+52 55 56.41
1494	18 47 59.715	+75 22 33.84
1551	20 58 07.395	+47 19 30.08
1558	21 15 26.951	+39 11 03.50
1575	21 47 37.796	+29 56 26.28
1605	23 07 32.182	−45 31 04.35

FK4Sup

FK4Sup	α_{1950}	δ_{1950}
2027	00 25 31.854	+44 07 05.34
2047	00 40 20.698	−65 44 32.93
2093	01 20 48.441	+37 27 16.30
2096	01 22 51.423	+23 15 07.42
2115	01 38 30.650	+25 29 38.52
2122	01 48 41.291	+54 54 02.85
2176	02 30 09.520	+14 48 52.07
2184	02 36 23.832	−38 12 17.97
2227	03 10 07.368	+59 22 38.39
2250	03 29 00.652	−47 32 42.06
2254	03 30 16.731	+39 43 57.63
2255	03 31 53.836	+31 51 04.16
2287	03 57 47.488	−24 09 24.93
2302	04 09 24.399	−20 29 05.34
2322	04 18 17.198	−07 42 38.65
2333	04 27 40.895	+72 25 26.83
2341	04 35 18.604	+20 35 09.65
2400	05 18 15.839	+41 45 24.49
2401	05 19 00.088	+08 22 50.64
2415	05 32 23.746	+24 00 29.86
2418	05 32 43.056	−64 15 37.10
2424	05 36 38.143	+25 52 15.31
2446	05 50 28.973	+59 52 47.21
2447	05 51 58.976	+19 44 29.91
2455	05 56 41.770	−09 33 36.62
2465	06 03 08.245	+38 29 20.96
2483	06 16 04.179	−19 56 46.76
2484	06 17 42.423	+53 28 28.35
2491	06 22 12.642	+56 18 51.33
2500	06 29 11.433	+32 29 32.59
2620	07 58 40.698	−01 15 08.75
2685	08 39 30.824	−59 34 55.29
2721	09 05 21.304	+51 48 28.45
2724	09 05 51.076	+26 50 13.96
2730	09 10 24.611	+61 37 51.35
2738	09 14 10.453	+47 01 37.03
2785	09 47 02.359	+21 24 48.04
2800	09 55 32.100	+12 41 03.03
2834	10 21 29.101	−66 38 53.18
2852	10 36 16.459	+38 10 16.49

FK4Sup

FK4Sup	α_{1950}	δ_{1950}
2870	10 51 06.527	+43 27 23.92
2900	11 14 26.026	−06 51 41.86
2916	11 27 25.619	+30 14 35.79
2961	11 58 17.520	−19 22 50.49
3252	15 47 29.713	+26 13 13.16
3258	15 53 47.482	−29 04 10.92
3264	15 59 26.291	+29 59 23.49
3298	16 24 07.298	−18 20 40.08
3299	16 25 05.689	−08 15 41.15
3313	16 33 11.685	+17 09 32.66
3385	17 23 54.053	+07 38 17.03
3388	17 24 39.539	+20 07 19.95
3389	17 24 58.263	+34 44 11.51
3405	17 38 36.137	−12 51 01.22
3424	17 52 59.793	−32 28 06.35
3491	18 41 39.774	+55 29 17.40
3503	18 49 44.326	+13 54 15.54
3506	18 51 58.664	+36 54 29.44
3512	18 55 21.086	−37 10 27.98
3520	18 59 48.098	−10 47 42.35
3525	19 04 37.292	+10 59 34.00
3526	19 04 39.741	+41 20 07.47
3529	19 06 25.899	+16 46 18.21
3544	19 17 52.724	−05 30 38.73
3554	19 24 20.981	+36 12 59.47
3560	19 30 42.947	−40 08 37.91
3571	19 37 33.728	+54 51 21.44
3574	19 38 46.581	+13 41 53.48
3584	19 48 54.286	+40 28 17.88
3585	19 48 54.847	+22 28 53.89
3588	19 50 28.606	+46 53 51.46
3590	19 53 52.132	+11 17 22.86
3599	19 58 05.074	+36 54 16.84
3644	20 31 07.830	+43 01 13.37
3664	20 47 21.142	+07 40 37.88
3701	21 16 35.137	+43 44 05.12
3703	21 18 19.996	+64 39 34.13
3714	21 25 18.865	+36 53 54.87
3733	21 40 18.925	+50 57 39.10
3752	21 54 59.023	−59 15 05.97

FK4Sup

FK4Sup	α_{1950}	δ_{1950}
3829	22 50 34.454	+16 34 31.28
3896	23 35 25.105	+18 07 24.38
3921	23 52 41.682	−32 11 59.56
3946	03 03 48.046	+81 16 50.48

FK4Sup

FK4Sup	α_{1950}	δ_{1950}

Flamsteed

Flamsteed	α_{1950}	δ_{1950}
1 And B	22 59 36.882	+42 03 25.50
9 And	23 16 00.611	+41 30 01.40
16 And	23 35 06.520	+46 11 13.83
21 And	00 05 47.841	+28 48 52.12
29 And	00 34 12.186	+33 26 39.75
34 And	00 44 40.968	+23 59 43.95
35 And	00 47 02.830	+40 48 25.23
40 And	*01 00 04.351*	*+31 32 10.53*
46 And	01 19 23.103	+45 16 02.87
47 And	01 20 48.441	+37 27 16.30
54 And	*01 40 30.757*	*+50 26 15.92*
57 And B	02 00 49.974	+42 05 31.16
66 And	02 24 29.671	+50 20 51.62
29 Aqr	21 59 42.543	−17 12 21.87
32 Aqr	22 02 13.118	−01 08 55.93
74 Aqr	22 50 50.810	−11 52 58.44
5 Aql	18 43 53.644	−01 00 56.62
18 Aql	19 04 37.292	+10 59 34.00
26 Aql	19 17 52.724	−05 30 38.73
44 Aql	19 36 43.539	+05 16 56.69
61 Aql	19 53 52.132	+11 17 22.86
65 Aql	20 08 43.494	−00 58 16.06
6 Ari	01 51 52.340	+20 33 52.09
12 Ari	02 03 45.702	+22 24 39.13
29 Ari	02 30 09.520	+14 48 52.07
30 Ari A	02 34 07.128	+24 25 50.90
42 Ari A	02 46 29.840	+17 15 27.29
10 Aur	05 03 00.214	+41 10 08.38
13 Aur	05 12 59.466	+45 56 58.04
14 Aur	05 12 08.799	+32 37 54.05
17 Aur	05 15 01.293	+33 42 55.62
20 Aur	05 18 15.839	+41 45 24.49

Flamsteed

Flamsteed	α_{1950}	δ_{1950}
34 Aur	05 55 51.579	+44 56 40.69
40 Aur	06 03 08.245	+38 29 20.96
45 Aur	06 17 42.423	+53 28 28.35
3 Boo	13 44 23.997	+25 57 08.51
12 Boo	14 08 07.066	+25 19 39.84
37 Boo	14 49 04.800	+19 18 24.60
39 Boo B	14 47 59.571	+48 55 35.48
44 Boo B	15 02 08.190	+47 50 53.10
7 Cam	04 53 16.202	+53 40 27.79
9 Cam	04 49 03.825	+66 15 38.64
31 Cam	05 50 28.973	+59 52 47.21
75 Cnc	09 05 51.076	+26 50 13.96
76 Cnc	09 05 02.414	+10 52 14.13
10 CVn	12 42 37.629	+39 33 00.75
1 CMa	06 18 23.546	−30 02 23.86
3 CMa	*06 20 17.110*	*−33 24 35.76*
29 CMa	07 16 35.390	−24 27 58.28
30 CMa	07 16 38.031	−24 51 42.75
3 CMi	07 24 26.357	+08 23 29.89
9 Cap B	20 18 12.200	−14 56 26.57
42 Cap	21 38 49.847	−14 16 17.57
49 Cap	21 44 16.993	−16 21 18.42

Flamsteed

Flamsteed	α_{1950}	δ_{1950}
11 Cas	00 06 29.735	+58 52 26.77
20 Cas	00 40 41.378	+46 45 04.98
21 Cas	00 42 18.429	+74 42 54.68
22 Cas	00 41 55.654	+48 00 40.00
23 Cas	00 44 23.261	+74 34 30.08
24 Cas	00 46 03.907	+57 33 02.76
1 Cen	13 42 50.314	−32 47 29.86
4 Cen	13 50 19.415	−31 40 53.33
6 Cep	21 18 19.996	+64 39 34.13
8 Cep	21 28 01.326	+70 20 27.85
14 Cep	22 00 23.540	+57 45 30.82
27 Cep C	22 27 17.496	+58 08 51.88
9 Cet	00 20 18.035	−12 29 14.89
13 Cet A	00 32 40.390	−03 52 04.29
18 Com	12 26 57.037	+24 23 06.37
24 Com B	12 32 35.859	+18 39 07.47
5 CrB	15 32 34.145	+26 52 54.75
7 CrB	15 37 29.590	+36 47 49.58
10 CrB	15 47 29.713	+26 13 13.16
14 CrB	15 59 26.291	+29 59 23.49
17 CrB A	16 12 48.252	+33 59 02.62
Crv		

Flamsteed

Flamsteed	α_{1950}	δ_{1950}
31 Crt	*11 58 17.520*	*−19 22 50.49*
4 Cyg	19 24 20.981	+36 12 59.47
25 Cyg	19 58 05.074	+36 54 16.84
47 Cyg	20 31 57.382	+35 04 43.09
50 Cyg	20 39 43.539	+45 06 03.12
57 Cyg	20 51 28.521	+44 11 49.78
59 Cyg	20 58 07.395	+47 19 30.08
60 Cyg	20 59 26.089	+45 57 31.22
61 Cyg A	21 04 39.935	+38 29 59.10
62 Cyg	21 03 06.589	+43 43 39.33
67 Cyg	21 15 26.951	+39 11 03.50
68 Cyg	21 16 35.137	+43 44 05.12
70 Cyg	21 25 18.865	+36 53 54.87
77 Cyg	21 40 22.030	+40 50 52.85
80 Cyg	21 40 18.925	+50 57 39.10
81 Cyg	21 44 56.560	+49 04 39.35
5 Del	20 35 25.553	+11 12 07.03
14 Del	20 47 21.142	+07 40 37.88
4 Dra B	12 27 55.874	+69 28 40.81
5 Dra	12 31 21.550	+70 03 48.96
11 Dra	14 03 01.963	+64 36 51.57
13 Dra	16 00 56.829	+58 41 53.69
28 Dra	17 37 14.348	+68 46 52.48
40 Dra	18 03 47.520	+79 59 48.27
43 Dra	18 21 28.502	+71 18 42.09
46 Dra	18 41 39.774	+55 29 17.40
50 Dra	18 47 59.715	+75 22 33.84
71 Dra	20 18 46.789	+62 05 53.62
1 Equ	20 56 34.570	+04 06 02.09

Flamsteed	α_{1950}	δ_{1950}
13 Eri	03 13 24.143	−09 00 15.50
18 Eri	03 30 34.355	−09 37 34.76
19 Eri	03 31 34.657	−21 47 57.95
23 Eri	03 40 51.035	−09 55 53.05
36 Eri	03 57 47.488	−24 09 24.93
41 Eri	04 16 00.050	−33 55 09.54
57 Eri	04 42 59.993	−03 20 41.33
66 Eri	05 04 17.196	−04 43 14.92
1 Gem B	06 01 04.774	+23 16 04.51
24 Gem	06 34 49.396	+16 26 37.40
63 Gem	07 24 46.351	+21 32 56.88
66 Gem A	07 31 24.673	+32 00 00.53
66 Gem B	07 31 24.635	+31 59 57.61
75 Gem	07 40 11.374	+29 00 22.23
20 Her	16 19 42.738	+19 16 09.32
21 Her	16 21 44.526	+07 03 44.55
27 Her	16 28 04.105	+21 35 50.16
29 Her	*17 29 55.112*	*+11 57 53.52*
32 Her	16 31 32.105	+30 36 09.91
39 Her	16 39 34.863	+27 00 42.82
58 Her	16 58 22.471	+30 59 55.92
68 Her	17 15 28.612	+33 09 10.07
85 Her	17 38 03.064	+46 01 55.28
96 Her	18 00 14.676	+20 49 55.39
108 Her	18 19 01.374	+29 50 01.63
112 Her	18 50 08.196	+21 21 48.31
1 Hya	08 22 05.451	−03 35 16.72
11 Hya C	08 44 07.508	+06 36 11.91
13 Hya	08 45 47.114	+06 01 24.82
15 Hya	08 49 06.951	−06 59 19.68
21 Hya	09 09 57.872	−06 54 13.73
40 Hya	10 02 41.299	−12 49 17.50
2 Lac	22 18 57.330	+46 17 03.55
14 Lac	22 48 06.137	+41 41 17.91
16 Lac	22 54 06.327	+41 20 11.95
14 Leo	09 38 29.008	+10 07 14.64
20 Leo	09 47 02.359	+21 24 48.04
27 Leo	09 55 32.100	+12 41 03.03
49 Leo	10 32 24.801	+08 54 33.57
90 Leo	11 32 06.389	+17 04 23.44
95 Leo	11 53 06.284	+15 55 30.08
10 LMi	09 31 09.969	+36 37 14.38
11 LMi	09 32 39.994	+36 02 14.94
19 LMi	09 54 37.760	+41 17 40.83
38 LMi	10 36 16.459	+38 10 16.49
8 Lep	05 21 12.789	−13 58 22.14
19 Lib	14 58 17.808	−08 19 18.19
31 Lib	15 21 29.019	−10 08 37.91
35 Lib	15 30 05.440	−16 41 04.98
40 Lib	15 35 34.729	−29 36 53.36
45 Lib	15 50 25.602	−20 01 08.70
4 Lup	15 39 29.420	−34 33 05.08
5 Lup	15 47 46.468	−33 28 35.36

Flamsteed

Flamsteed	α_{1950}	δ_{1950}
19 Lyn A	07 18 47.691	+55 22 40.73
6 Lyr	18 43 02.931	+37 33 06.40
10 Lyr	18 48 13.936	+33 18 12.51
11 Lyr	18 51 58.664	+36 54 29.44
17 Lyr	19 05 31.990	+32 25 18.48
20 Lyr	19 12 03.285	+39 03 32.22
2 Mon	05 56 41.770	−09 33 36.62
7 Mon	06 17 18.205	−07 48 01.79
8 Mon A	06 21 07.050	+04 37 11.68
16 Mon	06 43 48.773	+08 38 30.21
28 Mon	07 58 40.698	−01 15 08.75
3 Oph	16 25 05.689	−08 15 41.15
7 Oph	16 24 07.298	−18 20 40.08
12 Oph	16 33 43.677	−02 13 10.02
42 Oph	17 18 56.157	−24 57 05.20
55 Oph B	17 32 36.697	+12 35 41.94
3 Ori	04 48 32.421	+05 31 16.34
8 Ori	04 51 38.661	+02 21 37.24
16 Ori	05 06 34.444	+09 46 01.19
28 Ori	05 21 57.674	−02 26 29.65
30 Ori	05 24 12.930	+03 03 14.26
32 Ori	05 28 06.416	+05 54 41.79
34 Ori	05 29 27.017	−00 20 04.41
34 Ori C	05 29 26.996	−00 19 11.93
41 Ori A	05 32 48.356	−05 25 07.95
41 Ori B	05 32 48.669	−05 25 00.57
42 Ori	05 32 55.034	−04 52 10.86
43 Ori A	05 32 55.469	−05 26 50.89
44 Ori	05 32 59.126	−05 56 28.26
46 Ori	05 33 40.476	−01 13 56.30
50 Ori A	05 38 14.044	−01 58 03.05
57 Ori	05 51 58.976	+19 44 29.91
59 Ori	05 55 48.526	+01 50 01.00
61 Ori A	05 59 37.854	+09 38 56.35
61 Ori B	05 59 37.852	+09 38 56.27
64 Ori	06 00 29.692	+19 41 35.51
67 Ori	06 04 42.949	+14 46 34.32
69 Ori	06 09 10.198	+16 08 37.04
70 Ori	06 09 05.753	+14 13 18.68
10 Peg B	21 42 22.714	+25 24 51.41
14 Peg	21 47 37.796	+29 56 26.28
16 Peg	21 50 47.084	+25 41 20.87
24 Peg	22 04 40.836	+25 06 00.71
75 Peg	23 35 25.105	+18 07 24.38
88 Peg	00 10 39.447	+14 54 20.57
1 Per	01 48 41.291	+54 54 02.85
2 Per	01 48 57.679	+50 32 47.91
26 Per	03 04 54.356	+40 45 52.46
29 Per	03 15 03.309	+50 02 26.55
38 Per	03 41 10.603	+32 07 53.49
42 Per	03 46 22.636	+32 56 23.13
43 Per	03 52 52.755	+50 33 09.32
44 Per	03 50 58.959	+31 44 12.55
45 Per	03 54 29.432	+39 52 02.54
46 Per	03 55 42.825	+35 38 56.50
48 Per	04 05 01.311	+47 34 51.78
28 Psc	23 56 44.494	+06 35 11.41
33 Psc	00 02 46.530	−05 59 13.96
35 Psc	00 12 24.138	+08 32 35.70
64 Psc	00 46 20.792	+16 40 15.74
69 Psc	01 00 04.351	+31 32 10.53
85 Psc B	01 11 01.311	+24 19 04.65
86 Psc B	01 11 08.335	+07 18 52.03

Flamsteed	α_{1950}	δ_{1950}
PsA		
2 Pup B	07 43 10.625	−14 33 48.31
2 Sge	19 22 07.267	+16 50 20.28
11 Sgr	18 06 14.180	−23 59 51.90
13 Sgr	18 10 46.324	−21 04 25.46
42 Sgr	19 12 28.524	−25 20 40.36
46 Sgr	19 18 51.834	−16 03 01.82
51 Sgr	19 32 59.586	−24 49 48.90
5 Sco	15 53 47.482	−29 04 10.92
6 Sco	15 55 49.301	−25 58 18.14
7 Sco A	15 57 22.318	−22 28 51.37
8 Sco	16 02 31.507	−19 40 12.45
13 Sco	16 09 13.090	−27 47 53.94
14 Sco	16 09 05.107	−19 19 56.51
20 Sco	16 18 08.667	−25 28 28.14
30 Sco	*17 13 08.682*	*−26 28 33.11*
35 Sco	17 30 12.626	−37 04 09.63
25 Ser	15 43 30.273	−01 38 56.03
55 Ser	17 34 43.274	−15 22 07.81
56 Ser	17 38 36.137	−12 51 01.22
59 Ser Abc	18 24 38.902	+00 09 53.73
60 Ser	18 27 04.776	−02 01 09.27
4 Sex	09 47 53.998	+04 34 42.92
41 Sex	10 47 47.457	−08 37 56.58

Flamsteed	α_{1950}	δ_{1950}
2 Tau	03 24 27.329	+09 33 35.17
11 Tau	03 37 46.777	+25 10 09.75
17 Tau	03 41 54.055	+23 57 27.82
25 Tau	03 44 30.424	+23 57 07.57
29 Tau A	03 43 00.821	+05 53 41.52
33 Tau	03 54 05.621	+23 01 55.17
35 Tau	03 57 54.378	+12 21 02.13
41 Tau	04 03 32.054	+27 27 59.58
53 Tau	04 16 28.992	+21 01 22.50
60 Tau	04 19 14.250	+13 57 38.10
63 Tau	04 20 32.670	+16 39 43.80
78 Tau	04 25 48.214	+15 45 41.88
88 Tau	04 32 54.244	+10 03 35.07
94 Tau	04 39 14.403	+22 51 46.00
103 Tau	05 05 03.646	+24 12 02.80
121 Tau	05 32 23.746	+24 00 29.86
123 Tau	05 34 39.263	+21 06 50.00
125 Tau	05 36 38.143	+25 52 15.31
136 Tau	05 50 10.984	+27 36 08.48
2 Tri	01 50 13.440	+29 20 10.14
4 Tri	02 06 33.579	+34 45 06.52
6 Tri A	02 09 27.778	+30 04 10.44
6 Tri B	02 09 27.868	+30 04 14.14
8 Tri	02 13 59.587	+33 59 47.81
15 UMa	09 05 21.304	+51 48 28.45
16 UMa	09 10 24.611	+61 37 51.35
24 UMa	09 30 05.838	+70 03 06.47
34 UMa	10 19 21.469	+41 45 06.25
40 UMa	10 42 52.674	+57 11 02.14
45 UMa	10 51 06.527	+43 27 23.92
53 UMa B	11 15 31.120	+31 48 37.87
55 UMa	11 16 24.722	+38 27 36.38
65 UMa A	11 52 29.996	+46 45 18.12
79 UMa	13 21 54.916	+55 11 09.46
22 UMi	16 51 00.905	+82 07 21.54

Flamsteed	α_{1950}	δ_{1950}
67 Vir	13 22 33.301	−10 54 03.36
100 Vir	14 16 23.969	−13 08 30.89
1 Vul	19 14 03.958	+21 18 03.00
12 Vul	19 48 54.847	+22 28 53.89
18 Vul	20 08 28.223	+26 45 17.59

Flamsteed	α_{1950}	δ_{1950}

GC

GC	α_{1950}	δ_{1950}
59	00 02 46.530	−05 59 13.96
85	00 03 26.837	+63 24 05.25
88	00 03 37.946	+58 09 29.61
127	00 05 47.841	+28 48 52.12
147	00 06 29.735	+58 52 26.77
217	00 09 54.612	+14 17 11.48
238	00 10 39.447	+14 54 20.57
287	00 12 24.138	+08 32 35.70
345	00 15 03.362	+51 09 19.72
450	00 20 12.269	+29 10 38.27
452	00 20 18.035	−12 29 14.89
476	00 21 33.308	+51 44 34.74
482	00 22 01.773	+31 05 46.92
546	00 25 31.854	+44 07 05.34
696	00 32 40.390	−03 52 04.29
713	00 33 30.247	+48 16 50.29
729	00 34 12.186	+33 26 39.75
730	00 34 14.124	−49 24 20.25
841	00 39 48.850	+52 03 48.22
851	00 40 20.698	−65 44 32.93
856	00 40 41.378	+46 45 04.98
882	00 41 55.654	+48 00 40.00
891	00 42 18.429	+74 42 54.68
934	00 44 23.261	+74 34 30.08
940	00 44 40.968	+23 59 43.95
962	00 46 03.907	+57 33 02.76
968	00 46 20.792	+16 40 15.74
989	00 47 02.830	+40 48 25.23
1077	00 51 26.650	−74 55 23.30
1120	00 53 45.153	+60 05 33.50
1169	00 55 51.685	+46 46 01.03
1202	00 57 44.960	+81 36 24.67
1253	01 00 04.351	+31 32 10.53
1315	01 03 10.366	−27 13 19.16
1387	01 06 17.251	−55 30 45.72
1459	01 10 06.406	+31 48 38.37
1477	01 11 08.335	+07 18 52.03
1484	01 11 34.092	+60 40 30.80
1647	01 19 23.103	+45 16 02.87
1667	01 20 16.664	+00 27 16.10
1681	01 20 48.441	+37 27 16.30
1722	01 22 51.423	+23 15 07.42
1874	01 30 29.024	−49 47 01.41
2042	01 38 30.650	+25 29 38.52
2102	01 40 30.757	+50 26 15.92
2241	01 48 41.291	+54 54 02.85
2246	01 48 57.679	+50 32 47.91
2272	01 50 13.440	+29 20 10.14
2309	01 51 52.340	+20 33 52.09
2359	01 54 53.749	+41 27 05.29
2392	01 56 40.618	−23 09 44.85
2479	02 00 49.974	+42 05 31.16
2527	02 03 45.702	+22 24 39.13
2547	02 05 00.932	+17 47 32.20
2563	02 05 59.297	+40 33 28.73
2572	02 06 33.579	+34 45 06.52
2577	02 06 41.399	+79 27 28.93
2633	02 09 27.778	+30 04 10.44
2633	02 09 27.868	+30 04 14.14
2733	02 13 59.587	+33 59 47.81
2815	02 17 45.610	+54 16 54.43
2854	02 19 46.515	+41 15 10.44
2855	02 19 47.680	+16 38 35.41
2895	02 21 54.217	+61 19 28.35
2933	02 23 37.678	−15 33 54.52
2944	02 24 29.671	+50 20 51.62
3055	02 30 09.520	+14 48 52.07
3097	02 32 28.419	−44 00 38.92
3140	02 34 07.128	+24 25 50.90
3143	02 34 12.057	+39 40 47.31
3176	02 36 23.832	−38 12 17.97
3246	02 39 06.229	−54 45 48.15
3271	02 40 29.543	+67 36 50.37
3345	02 44 22.790	+69 25 33.10
3368	02 45 42.348	+30 54 36.28
3378	02 46 29.840	+17 15 27.29
3413	02 47 59.551	+58 06 32.59
3715	03 03 48.046	+81 16 50.48
3733	03 04 54.356	+40 45 52.46
3836	03 10 07.368	+59 22 38.39

GC

GC	α_{1950}	δ_{1950}
3888	03 12 53.372	+34 30 18.42
3899	03 13 24.143	−09 00 15.50
3934	03 15 03.309	+50 02 26.55
4089	03 23 33.019	+28 32 32.53
4107	03 24 27.329	+09 33 35.17
4108	03 24 29.041	+48 53 24.91
4177	03 27 54.488	+49 02 24.24
4212	03 29 00.652	−47 32 42.06
4236	03 30 16.731	+39 43 57.63
4244	03 30 34.355	−09 37 34.76
4258	03 31 34.657	−21 47 57.95
4264	03 31 53.836	+31 51 04.16
4310	03 34 10.194	+25 49 51.24
4311	03 34 13.130	+00 25 32.96
4382	03 37 46.777	+25 10 09.75
4450	03 40 51.035	−09 55 53.05
4461	03 41 10.603	+32 07 53.49
4477	03 41 54.055	+23 57 27.82
4501	03 42 51.373	+22 59 32.97
4505	03 43 00.821	+05 53 41.52
4541	03 44 30.424	+23 57 07.57
4542	03 44 30.587	+24 08 07.14
4548	03 44 41.964	+33 26 48.35
4592	03 46 22.636	+32 56 23.13
4688	03 50 58.959	+31 44 12.55
4728	03 52 52.755	+50 33 09.32
4747	03 54 05.621	+23 01 55.17
4759	03 54 29.432	+39 52 02.54
4764	03 54 45.698	+53 50 46.90
4779	03 55 42.825	+35 38 56.50
4801	03 57 47.488	−24 09 24.93
4805	03 57 54.378	+12 21 02.13
4931	04 03 23.893	+62 11 59.14
4933	04 03 28.216	+32 15 04.95
4937	04 03 32.054	+27 27 59.58
4943	04 03 43.447	+33 18 46.44
4949	04 04 13.992	+37 56 41.15
4967	04 05 01.311	+47 34 51.78
5012	04 07 15.207	−08 01 27.35
5055	04 09 24.399	−20 29 05.34
5130	04 12 45.952	+06 04 37.48
5174	04 14 28.414	+50 10 29.09
5179	04 14 42.867	−51 36 42.99
5201	04 16 00.050	−33 55 09.54
5210	04 16 28.992	+21 01 22.50
5260	04 18 03.740	+13 44 47.42
5267	04 18 17.198	−07 42 38.65
5287	04 19 14.250	+13 57 38.10
5315	04 20 32.670	+16 39 43.80
5408	04 24 42.955	+11 06 05.36
5436	04 25 48.214	+15 45 41.88
5460	04 26 57.746	+10 24 48.13
5478	04 27 40.895	+72 25 26.83
5599	04 32 54.244	+10 03 35.07
5642	04 35 12.600	+07 13 06.78
5644	04 35 18.604	+20 35 09.65
5699	04 38 22.034	+20 48 34.57
5716	04 39 14.403	+22 51 46.00
5796	04 42 59.993	−03 20 41.33
5856	04 46 04.700	+32 30 08.81
5886	04 47 32.024	−47 13 14.59
5911	04 48 32.421	+05 31 16.34
5924	04 49 03.825	+66 15 38.64
5978	04 51 38.661	+02 21 37.24
5991	04 52 16.487	+00 23 15.42
6017	04 53 16.202	+53 40 27.79
6226	05 03 00.214	+41 10 08.38
6246	05 04 17.196	−04 43 14.92
6267	05 05 03.646	+24 12 02.80
6300	05 06 34.444	+09 46 01.19
6411	05 12 08.799	+32 37 54.05
6427	05 12 59.466	+45 56 58.04
6463	05 14 33.482	+20 04 48.20
6476	05 15 01.293	+33 42 55.62
6522	05 17 03.159	−01 27 44.10
6543	05 17 50.783	+27 54 30.55
6550	05 18 01.655	+29 31 15.77
6556	05 18 15.839	+41 45 24.49
6572	05 18 58.611	−00 27 52.47
6574	05 19 00.088	+08 22 50.64

GC

GC	α_{1950}	δ_{1950}
6587	05 19 27.985	−03 00 40.49
6635	05 21 12.789	−13 58 22.14
6655	05 21 57.674	−02 26 29.65
6685	05 23 12.686	+00 28 38.36
6713	05 24 12.930	+03 03 14.26
6718	05 24 28.143	−02 24 07.49
6720	05 24 30.136	+03 48 51.27
6767	05 26 21.969	+35 20 10.96
6813	05 28 06.416	+05 54 41.79
6847	05 29 27.017	−00 20 04.41
6848	05 29 26.996	−00 19 11.93
6878	05 30 35.612	−01 45 05.11
6884	05 30 59.063	−01 11 23.03
6884	05 30 59.063	−01 11 23.03
6893	05 31 31.369	−01 04 07.23
6916	05 32 23.746	+24 00 29.86
6927	05 32 43.056	−64 15 37.10
6932	05 32 53.307	−04 31 30.89
6934	05 32 55.034	−04 52 10.86
6935	05 32 55.469	−05 26 50.89
6936	05 32 58.911	−05 26 52.21
6937	05 32 59.126	−05 56 28.26
6943	05 33 05.918	−03 17 02.12
6960	05 33 40.476	−01 13 56.30
6981	05 34 35.124	+08 55 22.13
6985	05 34 39.263	+21 06 50.00
6986	05 34 41.153	−47 20 36.96
6994	05 35 00.528	−05 58 02.16
7026	05 36 07.380	+29 11 17.37
7034	05 36 16.398	−02 37 17.58
7047	05 36 38.143	+25 52 15.31
7089	05 38 14.044	−01 58 03.05
7091	05 38 18.310	−01 09 12.66
7102	05 38 39.383	−78 50 55.65
7104	05 38 43.987	+43 02 09.84
7114	05 39 03.476	−69 07 35.21
7258	05 45 05.621	−10 32 58.15
7389	05 50 10.984	+27 36 08.48
7402	05 50 28.973	+59 52 47.21
7416	05 51 17.886	−33 48 40.66

GC	α_{1950}	δ_{1950}
7434	05 51 57.204	−43 34 01.76
7436	05 51 58.976	+19 44 29.91
7485	05 53 57.266	+16 20 58.38
7539	05 55 48.526	+01 50 01.00
7543	05 55 51.579	+44 56 40.69
7565	05 56 41.770	−09 33 36.62
7635	05 59 37.852	+09 38 56.27
7635	05 59 37.854	+09 38 56.35
7662	06 00 29.692	+19 41 35.51
7676	06 01 04.774	+23 16 04.51
7721	06 03 05.306	−10 14 15.83
7723	06 03 08.245	+38 29 20.96
7772	06 04 42.949	+14 46 34.32
7889	06 09 05.753	+14 13 18.68
7891	06 09 10.198	+16 08 37.04
7898	06 09 19.403	−54 57 24.59
7956	06 11 33.303	+17 55 20.05
8099	06 16 04.179	−19 56 46.76
8132	06 17 18.205	−07 48 01.79
8151	06 17 42.423	+53 28 28.35
8170	06 18 23.546	−30 02 23.86
8214	06 20 17.110	−33 24 35.76
8224	06 20 31.535	−03 15 01.97
8240	06 21 07.050	+04 37 11.68
8281	06 22 12.642	+56 18 51.33
8313	06 23 14.318	+18 47 20.98
8452	06 28 22.604	+11 17 15.24
8474	06 29 11.433	+32 29 32.59
8513	06 30 36.832	+82 18 46.74
8515	06 30 40.787	−61 50 32.16
8631	06 34 43.220	+06 10 44.47
8633	06 34 49.396	+16 26 37.40
8682	06 36 27.466	+24 38 41.02
8840	06 43 13.331	+02 33 11.10
8856	06 43 48.773	+08 38 30.21
9061	06 52 08.092	−23 51 51.60
9063	06 52 10.273	−01 41 31.75
9248	06 58 56.773	−03 02 43.49
9389	07 04 19.804	−11 12 55.96
9598	07 11 51.659	−30 59 48.41

GC

GC	α_{1950}	δ_{1950}
9643	07 13 40.976	−16 08 46.98
9734	07 16 35.390	−24 27 58.28
9736	07 16 38.031	−24 51 42.75
9746	07 16 51.450	−36 39 00.62
9758	07 17 12.341	−16 18 00.39
9800	07 18 47.691	+55 22 40.73
9805	07 18 53.056	−26 52 08.01
9947	07 24 26.357	+08 23 29.89
9957	07 24 46.351	+21 32 56.88
10029	07 27 09.049	−31 21 06.77
10038	07 27 35.932	−13 53 00.91
10094	07 29 53.564	−35 46 49.34
10120	07 31 24.635	+31 59 57.61
10120	07 31 24.673	+32 00 00.53
10121	07 31 26.235	+31 58 50.36
10212	07 34 40.891	−44 50 40.50
10266	07 36 13.100	−25 15 00.39
10330	07 38 07.115	−38 25 54.68
10355	07 39 30.268	−38 24 56.59
10373	07 40 11.374	+29 00 22.23
10453	07 43 10.625	−14 33 48.31
10490	07 44 31.772	−37 46 25.62
10533	07 46 00.808	−46 29 00.76
10661	07 50 52.396	−38 43 56.79
10802	07 56 48.169	−49 06 30.34
10870	07 58 40.698	−01 15 08.75
10884	07 59 19.609	−08 27 13.65
11098	08 07 46.613	−68 28 12.53
11103	08 07 56.860	−47 11 49.46
11105	08 07 59.465	−47 11 18.31
11207	08 12 02.251	−46 50 21.54
11479	08 22 05.451	−03 35 16.72
11542	08 24 28.064	−38 53 43.30
11570	08 25 19.808	−20 40 40.27
11587	08 25 57.681	−02 21 00.72
11587	08 25 57.689	−02 21 00.60
11630	08 27 29.901	−47 45 40.37
11730	08 31 02.587	+74 53 49.46
11781	08 33 11.523	+06 47 45.07
11933	08 38 32.028	−52 52 36.32

GC

GC	α_{1950}	δ_{1950}
11943	08 38 51.636	−52 44 37.11
11964	08 39 30.824	−59 34 55.29
11988	08 40 39.102	−47 55 07.79
11997	08 40 59.363	−52 56 01.48
12102	08 44 07.508	+06 36 11.91
12128	08 44 58.108	−78 53 15.10
12148	08 45 47.114	+06 01 24.82
12169	08 46 42.283	−42 12 52.63
12218	08 48 31.719	−41 54 08.36
12227	08 48 51.625	−46 20 29.20
12232	08 49 06.951	−06 59 19.68
12243	08 49 35.089	+08 15 18.27
12381	08 49 56.062	−27 17 41.72
12438	08 57 34.039	−27 37 10.53
12480	08 59 03.648	−52 21 31.73
12502	09 00 13.184	−40 21 25.29
12596	09 05 02.414	+10 52 14.13
12604	09 05 21.304	+51 48 28.45
12615	09 05 51.076	+26 50 13.96
12696	09 09 39.120	−58 45 41.26
12704	09 09 57.872	−06 54 13.73
12713	09 10 24.611	+61 37 51.35
12799	09 14 10.453	+47 01 37.03
12917	09 19 17.443	+40 25 11.74
12938	09 20 33.853	−54 47 47.30
13171	09 30 05.838	+70 03 06.47
13173	09 30 06.988	−28 24 24.28
13203	09 31 09.969	+36 37 14.38
13242	09 32 39.994	+36 02 14.94
13308	09 35 25.599	−80 43 01.70
13366	09 38 29.008	+10 07 14.64
13411	09 40 51.573	+02 51 25.03
13421	09 41 40.607	−50 59 54.52
13508	09 45 53.733	−49 42 38.73
13528	09 47 02.359	+21 24 48.04
13545	09 47 53.998	+04 34 42.92
13654	09 52 56.908	−58 11 01.77
13663	09 53 14.399	−57 29 24.61
13700	09 54 37.760	+41 17 40.83
13710	09 55 05.716	−57 24 58.24

GC

GC	α_{1950}	δ_{1950}	GC	α_{1950}	δ_{1950}
13724	09 55 32.100	+12 41 03.03	16311	11 53 06.284	+15 55 30.08
13748	09 57 13.305	+24 47 36.13	16423	11 58 17.520	−19 22 50.49
13861	10 02 41.299	−12 49 17.50	16459	12 00 21.696	−61 53 48.61
14030	10 12 37.220	−02 53 35.10	16463	12 00 27.869	−63 02 04.11
14232	10 19 21.469	+41 45 06.25	16490	12 01 43.859	−62 53 14.26
14260	10 20 33.038	+65 49 12.47	16525	12 03 12.748	−69 17 41.03
14283	10 21 29.101	−66 38 53.18	16557	12 04 38.357	+69 21 14.88
14541	10 32 24.801	+08 54 33.57	16592	12 06 18.122	−44 02 49.38
14569	10 33 33.052	−11 39 01.12	16672	12 09 52.843	+77 53 38.20
14610	10 35 04.695	+60 23 14.87	16744	12 13 21.404	+72 49 45.35
14614	10 35 11.747	−47 57 55.48	16829	12 17 48.976	+26 53 54.44
14634	10 36 16.459	+38 10 16.49	16951	12 23 43.075	−62 50 42.31
14707	10 39 22.612	−59 24 54.64	16952	12 23 48.064	−62 49 19.43
14755	10 41 10.052	−64 07 55.36	16953	12 23 48.870	−62 49 21.48
14768	10 42 00.906	−59 17 05.00	17020	12 26 57.037	+24 23 06.37
14772	10 42 04.458	−59 36 41.58	17046	12 27 55.874	+69 28 40.81
14777	10 42 12.426	−59 18 48.37	17126	12 31 21.550	+70 03 48.96
14783	10 42 24.406	+45 49 45.79	17146	12 32 35.859	+18 39 07.47
14784	10 42 27.048	−59 43 49.19	17234	12 36 56.818	−66 14 12.09
14784	10 42 27.048	−59 43 49.19	17252	12 38 26.304	+83 55 05.57
14785	10 42 26.855	−81 46 25.97	17260	12 38 40.251	−12 44 26.80
14793	10 42 52.674	+57 11 02.14	17261	12 38 40.927	+30 42 39.76
14815	10 43 46.729	−59 08 39.24	17337	12 42 37.629	+39 33 00.75
14844	10 44 39.915	−63 59 58.06	17440	12 48 38.683	+83 41 22.40
14906	10 47 47.457	−08 37 56.58	17488	12 50 37.653	−60 05 09.62
14974	10 51 06.527	+43 27 23.92	17567	12 54 06.309	+54 22 10.96
15158	10 59 34.162	+10 09 53.23	17773	13 03 58.753	−49 38 19.89
15179	11 00 17.684	+61 55 28.35	17788	13 04 52.075	−65 02 21.47
15212	11 01 30.584	−51 04 59.71	17866	13 09 09.247	−59 39 17.43
15260	11 03 31.885	−27 01 02.10	17880	13 09 47.153	−59 33 00.38
15280	11 04 18.018	−65 14 21.13	17927	13 11 49.986	−67 37 48.79
15424	11 10 45.689	−26 11 34.26	18084	13 19 20.755	−60 42 38.14
15514	11 14 26.026	−06 51 41.86	18133	13 21 54.916	+55 11 09.46
15537	11 15 31.120	+31 48 37.87	18144	13 22 33.301	−10 54 03.36
15558	11 16 24.722	+38 27 36.38	18244	13 27 14.065	+01 21 16.65
15772	11 27 25.619	+30 14 35.79	18264	13 28 24.772	+24 29 25.23
15787	11 28 07.900	+41 33 50.35	18359	13 32 33.917	+37 26 16.62
15874	11 32 06.389	+17 04 23.44	18562	13 41 17.921	−05 14 51.96
16192	11 46 39.843	+16 31 18.60	18593	13 42 50.314	−32 47 29.86
16296	11 52 29.996	+46 45 18.12	18609	13 43 36.039	+05 21 56.68

GC

GC	α_{1950}	δ_{1950}	GC	α_{1950}	δ_{1950}
18616	13 43 58.759	+31 08 52.49	21064	15 37 29.590	+36 47 49.58
18623	13 44 23.997	+25 57 08.51	21106	15 39 29.420	−34 33 05.08
18665	13 46 29.739	−41 26 21.52	21187	15 43 30.273	−01 38 56.03
18747	13 49 54.667	−18 27 46.33	21256	15 46 29.487	+12 52 32.56
18755	13 50 19.415	−31 40 53.33	21276	15 47 29.713	+26 13 13.16
18809	13 52 24.510	−47 02 34.87	21281	15 47 46.468	−33 28 35.36
18840	13 53 51.820	+26 09 46.07	21327	15 50 25.602	−20 01 08.70
19019	14 03 01.963	+64 36 51.57	21339	15 50 54.404	−24 23 08.40
19113	14 07 28.904	−47 31 59.91	21356	15 51 44.263	−22 37 10.25
19127	14 08 07.066	+25 19 39.84	21398	15 53 47.482	−29 04 10.92
19169	14 10 15.197	−54 23 31.03	21420	15 54 44.832	−20 50 22.85
19188	14 11 05.875	−00 36 36.88	21447	15 55 49.301	−25 58 18.14
19246	14 13 24.877	−57 37 22.09	21489	15 57 22.318	−22 28 51.37
19296	14 15 52.952	+35 44 21.87	21534	15 59 26.291	+29 59 23.49
19311	14 16 23.969	−13 08 30.89	21572	16 00 56.829	+58 41 53.69
19539	14 27 00.328	−49 17 47.29	21605	16 02 19.537	+34 18 51.32
19708	14 35 05.785	+36 08 45.77	21609	16 02 31.507	−19 40 12.45
19757	14 37 56.367	+64 30 23.09	21622	16 03 12.539	+08 13 50.63
19972	14 47 59.571	+48 55 35.48	21630	16 03 32.437	+10 49 11.39
19991	14 49 04.800	+19 18 24.60	21773	16 09 05.107	−19 19 56.51
20195	14 58 17.808	−08 19 18.19	21778	16 09 13.090	−27 47 53.94
20281	15 02 08.190	+47 50 53.10	21863	16 12 48.252	+33 59 02.62
20381	15 06 52.873	+63 18 26.92	21982	16 18 08.667	−25 28 28.14
20435	15 09 27.473	−44 18 46.87	22012	16 19 42.738	+19 16 09.32
20465	15 10 50.660	+62 02 32.88	22050	16 21 27.670	−34 46 45.74
20507	15 12 53.078	−60 46 24.48	22058	16 21 44.526	+07 03 44.55
20531	15 14 03.148	−12 51 21.50	22089	16 23 03.880	−69 58 28.74
20566	15 15 39.095	−40 36 23.40	22106	16 23 30.524	−47 26 33.93
20574	15 16 08.916	+31 49 43.37	22117	16 24 07.298	−18 20 40.08
20606	15 17 28.967	+32 41 42.37	22134	16 25 05.689	−08 15 41.15
20620	15 18 04.851	−40 28 04.92	22193	16 28 04.105	+21 35 50.16
20659	15 19 16.541	−44 30 40.82	22276	16 31 32.105	+30 36 09.91
20699	15 21 29.019	−10 08 37.91	22304	16 32 51.149	−42 45 26.77
20756	15 24 05.522	−36 35 36.61	22314	16 33 11.685	+17 09 32.66
20783	15 25 26.995	−09 10 13.82	22321	16 33 43.677	−02 13 10.02
20887	15 30 05.440	−16 41 04.98	22342	16 34 40.598	+14 34 30.70
20926	15 31 47.980	−41 00 00.69	22359	16 35 19.607	−44 03 32.38
20947	15 32 34.145	+26 52 54.75	22364	16 35 34.799	−56 53 45.99
20993	15 34 28.166	−26 06 57.22	22419	16 37 35.138	−48 40 01.19
21019	15 35 34.729	−29 36 53.36	22468	16 39 34.863	+27 00 42.82

GC

GC	α_{1950}	δ_{1950}
22631	16 46 36.157	−15 34 54.81
22677	16 48 28.679	−37 57 48.92
22684	16 48 48.358	−41 46 16.53
22729	16 50 27.600	−41 54 47.89
22736	16 50 39.035	−41 44 39.16
22742	16 50 48.747	−41 44 20.88
22749	16 51 00.905	+82 07 21.54
22808	16 52 57.654	+13 41 57.63
22813	16 53 06.857	−40 44 43.53
22843	16 54 27.262	+75 28 20.36
22859	16 55 08.726	+52 46 31.80
22935	16 58 22.471	+30 59 55.92
22996	17 00 32.697	−37 46 28.76
23050	17 02 43.918	+00 46 28.23
23183	17 08 38.891	−58 32 11.20
23217	17 09 59.427	−56 49 49.71
23275	17 12 18.174	−66 53 40.35
23298	17 13 08.682	−26 28 33.11
23317	17 13 59.357	+01 15 53.07
23359	17 15 28.612	+33 09 10.07
23451	17 18 56.157	−24 57 05.20
23487	17 20 05.060	+40 01 22.05
23564	17 22 30.540	+57 03 22.66
23614	17 23 54.053	+07 38 17.03
23617	17 23 58.550	−05 02 38.50
23641	17 24 39.539	+20 07 19.95
23647	17 24 58.263	+34 44 11.51
23671	17 25 45.613	−32 57 54.91
23682	17 26 47.627	−33 40 41.68
23757	17 29 55.112	+11 57 53.52
23769	17 30 12.626	−37 04 09.63
23804	17 31 26.314	−32 32 56.46
23837	17 32 36.697	+12 35 41.94
23860	17 33 50.722	−56 47 28.93
23881	17 34 43.274	−15 22 07.81
23944	17 37 14.348	+68 46 52.48
23965	17 38 03.064	+46 01 55.28
23978	17 38 36.137	−12 51 01.22
24075	17 42 00.614	+14 25 48.97
24107	17 43 29.945	+05 42 47.12

GC

GC	α_{1950}	δ_{1950}
24114	17 43 43.758	+05 40 35.84
24132	17 44 19.434	+05 34 57.41
24143	17 44 35.061	+05 42 33.23
24160	17 45 20.106	−26 57 32.15
24173	17 45 47.382	+47 37 42.95
24185	17 46 16.265	+05 42 59.48
24187	17 46 24.124	−53 35 53.52
24277	17 49 35.252	−35 00 29.22
24293	17 50 02.726	−35 00 23.38
24314	17 50 34.637	−34 44 35.62
24324	17 50 54.378	−34 43 06.20
24371	17 52 59.793	−32 28 06.35
24407	17 54 24.291	+04 59 30.82
24449	17 55 49.486	−36 56 08.06
24450	17 55 51.349	+15 08 31.12
24549	17 59 41.017	+45 21 00.49
24563	18 00 14.676	+20 49 55.39
24617	18 02 05.802	+01 54 53.89
24618	18 02 06.467	−24 24 10.84
24664	18 03 42.272	+21 26 26.17
24664	18 03 42.272	+21 26 26.17
24667	18 03 47.520	+79 59 48.27
24719	18 05 48.436	−25 28 55.10
24732	18 06 14.180	−23 59 51.90
24856	18 10 46.324	−21 04 25.46
24927	18 13 48.337	+56 34 13.96
24947	18 14 17.236	−34 07 35.38
24950	18 14 32.490	−18 28 58.27
24969	18 15 17.602	−12 15 45.67
25056	18 19 01.374	+29 50 01.63
25114	18 21 28.502	+71 18 42.09
25133	18 22 24.821	−14 00 26.18
25165	18 24 02.968	+29 47 56.13
25176	18 24 38.902	+00 09 53.73
25198	18 25 32.158	+06 09 43.34
25234	18 27 04.776	−02 01 09.27
25269	18 28 03.240	−45 57 02.52
25273	18 28 20.113	−45 47 37.72
25274	18 28 20.265	+12 34 31.12
25394	18 32 44.674	+51 40 59.90

GC	α_{1950}	δ_{1950}
25635	18 41 39.774	+55 29 17.40
25653	18 42 19.553	−21 03 14.40
25676	18 43 02.931	+37 33 06.40
25713	18 43 53.644	−01 00 56.62
25739	18 44 54.357	−20 19 49.29
25757	18 45 35.976	+52 55 56.41
25773	18 46 12.064	+49 22 32.22
25810	18 47 11.007	+24 59 18.60
25839	18 47 59.715	+75 22 33.84
25847	18 48 13.936	+33 18 12.51
25848	18 48 15.823	+33 17 33.39
25886	18 49 44.326	+13 54 15.54
25895	18 50 08.196	+21 21 48.31
25934	18 51 58.664	+36 54 29.44
26038	18 55 21.086	−37 10 27.98
26059	18 56 19.140	+38 11 50.84
26147	18 59 13.272	+20 45 37.79
26175	18 59 48.098	−10 47 42.35
26257	19 02 45.622	+09 33 55.90
26315	19 04 37.292	+10 59 34.00
26318	19 04 39.741	+41 20 07.47
26340	19 05 31.990	+32 25 18.48
26361	19 06 05.367	+38 50 52.85
26374	19 06 25.899	+16 46 18.21
26375	19 06 26.482	−41 58 25.53
26507	19 12 03.285	+39 03 32.22
26516	19 12 28.524	−25 20 40.36
26560	19 13 55.995	+27 21 59.40
26569	19 14 03.958	+21 18 03.00
26611	19 15 32.192	+22 20 59.99
26637	19 16 30.078	+16 23 45.50
26639	19 16 37.017	+19 31 04.26
26650	19 17 15.486	+37 21 07.30
26669	19 17 52.724	−05 30 38.73
26697	19 18 51.834	−16 03 01.82
26722	19 19 42.783	−20 44 16.77
26784	19 22 07.267	+16 50 20.28
26846	19 24 20.981	+36 12 59.47
26951	19 28 39.676	−02 12 59.60
27006	19 30 42.947	−40 08 37.91

GC

GC	α_{1950}	δ_{1950}
27067	19 32 59.586	−24 49 48.90
27185	19 36 43.539	+05 16 56.69
27206	19 37 33.728	+54 51 21.44
27235	19 38 46.581	+13 41 53.48
27433	19 46 56.044	+33 18 40.04
27458	19 47 51.889	+07 46 29.79
27472	19 48 21.623	−46 59 23.70
27492	19 48 54.286	+40 28 17.88
27493	19 48 54.847	+22 28 53.89
27525	19 50 17.153	−14 43 57.84
27529	19 50 28.606	+46 53 51.46
27542	19 51 18.212	−24 04 00.88
27603	19 53 48.115	−68 53 48.54
27604	19 53 52.132	+11 17 22.86
27670	19 56 29.133	−35 24 47.51
27724	19 58 05.074	+36 54 16.84
27754	19 59 03.538	+10 36 33.14
27892	20 04 04.633	+35 38 38.28
27999	20 08 28.223	+26 45 17.59
28010	20 08 43.494	−00 58 16.06
28056	20 10 17.128	+38 12 15.05
28062	20 10 31.573	+47 35 10.07
28261	20 17 13.390	+46 09 52.89
28295	20 18 12.200	−14 56 26.57
28303	20 18 46.706	+43 41 42.90
28304	20 18 46.789	+62 05 53.62
28318	20 19 27.930	+30 25 47.38
28374	20 21 42.289	−56 53 50.02
28405	20 22 58.190	+21 19 29.54
28604	20 31 07.830	+43 01 13.37
28630	20 31 57.382	+35 04 43.09
28631	20 31 58.405	+45 00 11.99
28711	20 35 25.553	+11 12 07.03
28804	20 38 02.972	+75 24 57.96
28846	20 39 43.539	+45 06 03.12
29039	20 47 21.142	+07 40 37.88
29098	20 49 35.426	+37 48 03.70
29114	20 50 03.571	+34 28 07.77
29150	20 51 28.521	+44 11 49.78
29214	20 53 50.503	−70 36 57.94

GC

GC	α_{1950}	δ_{1950}
29241	20 54 48.837	+44 43 53.95
29265	20 55 55.845	−14 40 39.39
29276	20 56 34.570	+04 06 02.09
29284	20 56 39.840	+41 44 42.75
29327	20 58 07.395	+47 19 30.08
29343	20 58 44.041	−77 13 01.18
29354	20 59 26.089	+45 57 31.22
29457	21 03 05.034	+63 10 47.34
29459	21 03 06.589	+43 43 39.33
29509	21 04 39.935	+38 29 59.10
29562	21 06 31.463	+30 00 09.40
29786	21 15 26.951	+39 11 03.50
29804	21 15 56.356	+58 24 03.42
29812	21 16 09.806	+11 21 30.02
29823	21 16 35.137	+43 44 05.12
29860	21 17 52.610	+58 24 41.39
29875	21 18 19.996	+64 39 34.13
29887	21 18 55.406	+10 07 10.24
29889	21 19 04.079	+40 08 05.80
29896	21 19 15.420	+32 23 58.16
29968	21 21 53.419	+25 05 48.62
30025	21 24 17.421	+13 28 14.79
30044	21 25 18.865	+36 53 54.87
30118	21 28 01.326	+70 20 27.85
30165	21 30 21.043	+70 36 07.09
30229	21 33 05.963	+27 58 27.11
30322	21 37 24.390	+57 15 44.56
30328	21 37 34.126	+08 57 26.46
30354	21 38 49.847	−14 16 17.57
30391	21 40 18.925	+50 57 39.10
30394	21 40 22.030	+40 50 52.85
30396	21 40 25.842	−19 51 00.45
30442	21 42 05.932	+28 33 07.71
30450	21 42 22.714	+25 24 51.41
30491	21 44 16.993	−16 21 18.42
30512	21 44 56.560	+49 04 39.35
30565	21 47 37.796	+29 56 26.28
30574	21 47 58.623	+66 33 33.04
30627	21 50 19.323	+55 33 40.38
30635	21 50 47.084	+25 41 20.87

GC	α_{1950}	δ_{1950}
30671	21 52 21.867	+62 22 39.81
30724	21 54 59.023	−59 15 05.97
30745	21 55 54.364	+65 55 02.03
30823	21 59 42.543	−17 12 21.87
30833	22 00 13.572	+82 37 51.47
30837	22 00 23.540	+57 45 30.82
30872	22 02 13.118	−01 08 55.93
30932	22 04 40.836	+25 06 00.71
30985	22 06 39.437	+45 29 45.72
31074	22 10 07.624	−04 58 04.69
31158	22 14 18.976	+22 38 47.51
31252	22 18 57.330	+46 17 03.55
31419	22 27 17.496	+58 08 51.88
31442	22 28 02.776	+49 06 00.43
31473	22 29 15.036	+29 17 08.97
31556	22 33 48.436	+49 48 41.23
31617	22 36 48.620	+37 06 53.25
31826	22 46 03.889	+64 47 52.45
31861	22 48 06.137	+41 41 17.91
31908	22 50 34.454	+16 34 31.28
31918	22 50 50.810	−11 52 58.44
31978	22 53 37.402	−31 49 50.61
31987	22 54 06.327	+41 20 11.95
32095	22 59 36.882	+42 03 25.50
32169	23 03 02.596	+24 22 58.66
32204	23 04 51.062	+49 55 18.26
32208	23 05 00.316	+45 47 51.23
32210	23 05 03.149	+59 27 24.27
32270	23 07 32.182	−45 31 04.35
32275	23 07 39.187	+47 41 13.25
32403	23 14 17.395	+61 41 23.90
32447	23 16 00.611	+41 30 01.40
32492	23 17 48.400	+60 52 33.72
32493	23 17 50.188	+78 43 43.62
32557	23 21 19.723	+32 15 22.09
32683	23 27 42.766	+58 16 23.18
32687	23 27 57.591	+30 33 22.27
32832	23 35 06.520	+46 11 13.83
32842	23 35 25.105	+18 07 24.38
32868	23 36 59.446	+27 57 58.55

GC

GC	α_{1950}	δ_{1950}
33120	23 49 57.039	+75 15 57.16
33168	23 52 29.081	+28 21 17.88
33175	23 52 41.682	−32 11 59.56
33184	23 53 02.700	+57 08 02.20
33214	23 54 36.576	+55 25 39.25
33252	23 56 13.367	+46 08 05.56
33262	23 56 44.494	+06 35 11.41

GC α_{1950} δ_{1950}

GCVS	α_{1950}	δ_{1950}
RT And	23 08 55.444	+52 45 15.93
RX And	01 01 45.809	+41 01 54.44
AA And	23 03 06.84	+47 25 01.2
AB And	23 09 08.593	+36 37 19.07
AN And	23 16 00.611	+41 30 01.40
AR And	01 42 06.915	+37 41 33.10
BD And	23 04 50.18	+50 14 16.4
BX And	02 05 59.297	+40 33 28.73
CN And	00 17 52.099	+39 56 57.05
DX And	23 27 21.710	+43 28 31.93
EP And	01 39 27.66	+44 30 36.8
FF And	00 40 04.69	+35 16 25.1
FN And	01 09 09.495	+35 01 31.19
FO And	01 12 42.085	+37 21 46.02
GZ And	02 09 04.989	+44 25 32.18
HP And	00 16 31.	+41 11 24.
HV And	00 38 10.	+43 07
KX And	23 04 51.062	+49 55 18.26
KZ And	23 07 39.187	+47 41 13.25
LL And	00 39 12.	+26 21
LO And	23 24 42.935	+45 16 50.44
LR And	00 20 12.269	+29 10 38.27
MW And	02 28 21.	+39 28 08.
α And	00 05 47.841	+28 48 52.12
ζ And	00 44 40.968	+23 59 43.95
λ And	23 35 06.520	+46 11 13.83
S Ant	09 30 06.988	−28 24 24.28
Z Aps	14 02 39.39	−71 07 58.8
AS Aps	15 41 04.05	−73 17 56.2
DW Aps	17 18 14.145	−67 52 52.54
GK Aps	15 07 06.38	−79 20 04.4
IY Aps	16 47 54.51	−73 57 53.2

GCVS	α_{1950}	δ_{1950}
ST Aqr	22 18 24.567	−07 12 59.69
UU Aqr	22 06 29.85	−04 01 01.4
VY Aqr	21 09 28.26	+09 01 56.4
VZ Aqr	21 27 48.59	−03 12 29.7
AE Aqr	20 37 34.27	−01 02 56.8
AY Aqr	22 24 12.	−19 40 00.
CK Aqr	20 58 18.	−11 15 36.
CV Aqr	21 18 58.	−14 30 54.
CW Aqr	22 16 40.	−17 08 36.
CX Aqr	22 33 09.98	−00 57 03.3
DV Aqr	20 55 55.845	−14 40 39.39
DX Aqr	21 59 42.543	−17 12 21.87
EE Aqr	22 31 59.213	−20 07 05.54
EG Aqr	23 22 44.	−08 35 00.
EL Aqr	23 44 44.16	−08 21 45.3
EV Aqr	21 03 45.	+00 43
FK Aqr	22 36 01.287	−20 52 49.35
FO Aqr	22 15 17.40	−08 36 05.04
FS Aqr	22 03 05.	−00 38 06.
GK Aqr	22 17 23.	−00 55 42.
GP Aqr	22 23 02.	−08 11 48.
GZ Aqr	22 38 24.	−07 48 24.
HI Aqr	22 50 50.810	−11 52 58.44
HL Aqr	22 17 53.8	+01 45 46.
Y Aql	19 04 37.292	+10 59 34.00
UU Aql	19 54 35.23	−09 27 26.4
CI Aql	18 49 28.03	−01 32 19.1
DH Aql	19 23 27.	−10 21 24.
FO Aql	19 14 04.46	+00 02 13.3
KX Aql	19 31 36.	+14 11 06.
OO Aql	19 45 48.361	+09 11 01.76
QS Aql	19 38 46.581	+13 41 53.48
V337 Aql	19 01 34.079	−02 06 18.37
V346 Aql	20 07 35.981	+10 12 05.66
V352 Aql	19 11 07.	+02 13
V417 Aql	19 32 56.560	+05 43 38.20
V599 Aql	18 59 48.098	−10 47 42.35
V603 Aql	18 46 21.470	+00 31 36.21
V688 Aql	19 46 11.83	+15 29 44.8

GCVS	α_{1950}	δ_{1950}
V724 Aql	19 54 15.	+00 58
V725 Aql	19 54 21.	+10 41 18.
V794 Aql	20 14 56.57	−03 49 11.9
V803 Aql	18 58 04.	−07 33 30.
V805 Aql	19 03 31.107	−11 43 35.61
V822 Aql	19 28 39.676	−02 12 59.60
V1182 Aql	18 53 00.002	+09 16 53.30
V1289 Aql	19 36 24.	+12 09 06.
V1315 Aql	19 11 35.	+12 12 37.
V1331 Aql	18 41 37.182	−01 36 21.90
V1339 Aql	19 47 51.889	+07 46 29.79
V1341 Aql	18 53 13.	−00 05 24.
V1343 Aql	19 09 21.282	+04 53 54.27
V1402 Aql	19 01 20.36	−04 23 32.7
σ Aql	19 36 43.539	+05 16 56.69
R Ara	16 35 34.799	−56 53 45.99
AT Ara	17 26 51.	−46 03 36.
BF Ara	17 34 35.87	−47 08 58.6
FV Ara	17 30 19.	−63 00 42.
LR Ara	16 49 05.67	−61 30 14.5
V349 Ara	16 34 56.592	−60 51 46.87
V535 Ara	17 33 50.722	−56 47 28.93
V539 Ara	17 46 24.124	−53 35 53.52
V610 Ara	16 47 58.531	−57 10 41.04
V616 Ara	17 03 19.261	−46 56 13.25
V620 Ara	17 43 00.106	−56 04 52.87
V651 Ara	16 39 45.	−56 46 36.
V653 Ara	16 40 59.	−54 53 42.
V659 Ara	16 42 01.	−61 20 48.
V687 Ara	16 43 25.	−55 18 36.
V824 Ara	17 12 18.174	−66 53 40.35
V829 Ara	17 09 59.427	−56 49 49.71
RX Ari	02 12 31.699	+22 20 13.83
SS Ari	02 01 26.	+23 45 42.
TT Ari	02 04 09.91	+15 03 27.4
UX Ari	03 23 33.019	+28 32 32.53
VY Ari	02 45 42.348	+30 54 36.28

GCVS	α_{1950}	δ_{1950}
WX Ari	02 44 54.5	+10 23 14.
T Aur	05 28 46.48	+30 24 35.7
SS Aur	06 09 35.200	+47 45 17.68
SX Aur	05 08 10.174	+42 06 18.30
TT Aur	05 06 14.762	+39 31 25.41
WW Aur	06 29 11.433	+32 29 32.59
ZZ Aur	05 42 10.19	+41 07 50.4
AH Aur	06 22 55.79	+28 01 43.4
AP Aur	07 20 30.19	+36 32 45.1
AR Aur	05 15 01.293	+33 42 55.62
BF Aur	05 01 32.952	+41 13 13.94
EO Aur	05 14 58.535	+36 34 47.04
EP Aur	06 08 17.46	+31 29 36.6
FS Aur	05 44 33.325	+28 34 11.05
HL Aur	06 15 16.	+49 44
IM Aur	05 11 47.306	+46 21 00.58
IU Aur	05 24 32.790	+34 44 31.22
IY Aur	05 44 51.095	+43 03 59.45
KR Aur	06 12 33.75	+28 36 10.3
KW Aur	05 12 08.799	+32 37 54.05
LY Aur	05 26 21.969	+35 20 10.96
NW Aur	05 19 39.	+33 26 24.
V363 Aur	05 30 09.77	+36 54 29.4
β Aur	05 55 51.579	+44 56 40.69
TT Boo	14 55 51.295	+40 55 39.85
TU Boo	14 02 44.13	+30 14 19.7
TY Boo	14 58 46.73	+35 19 42.3
TZ Boo	15 06 16.77	+40 09 34.9
UZ Boo	14 41 45.28	+22 13 35.7
VW Boo	14 15 00.72	+12 47 57.0
XY Boo	13 46 49.12	+20 26 16.0
ZZ Boo	13 53 51.820	+26 09 46.07
AC Boo	14 54 43.31	+46 33 46.6
AD Boo	14 32 58.282	+24 51 25.62

GCVS	α_{1950}	δ_{1950}
BW Boo	14 35 05.785	+36 08 45.77
CK Boo	14 32 36.509	+09 19 58.50
CR Boo	13 46 25.9	+08 12 27.
ξ Boo	14 49 04.800	+19 18 24.60
i Boo	15 02 08.190	+47 50 53.10
RR Cae	04 19 36.	−48 46 06.
Z Cam	08 19 39.890	+73 16 22.91
SV Cam	06 30 36.832	+82 18 46.74
SZ Cam	04 03 23.893	+62 11 59.14
TU Cam	05 50 28.973	+59 52 47.21
AF Cam	03 28 14.510	+58 37 12.80
AO Cam	04 24 18.46	+52 56 07.8
AW Cam	06 41 58.360	+69 40 59.44
BY Cam	05 38 15.9	+60 50 03.
BZ Cam	06 23 46.53	+71 06 34.4
SY Cnc	08 58 14.34	+18 05 44.1
TX Cnc	08 37 10.291	+19 10 39.16
WY Cnc	08 58 58.19	+26 53 17.9
YZ Cnc	08 07 52.56	+28 17 32.5
AC Cnc	08 41 41.70	+13 03 26.1
AD Cnc	08 43 38.	+10 31 00.
AK Cnc	08 52 35.29	+11 31 12.0
AR Cnc	09 19 07.925	+31 16 03.90
AT Cnc	08 25 15.	+25 31
CC Cnc	08 33 24.	+21 31 30.
EG Cnc	08 40 03.26	+28 02 39.2
κ Cnc	09 05 02.414	+10 52 14.13
UX CVn	12 12 17.71	+36 55 29.8
VZ CVn	13 29 43.743	+28 50 29.55
AM CVn	12 32 28.33	+37 54 14.5
BF CVn	12 55 19.20	+35 29 49.5
BH CVn	13 32 33.917	+37 26 16.62

GCVS	α_{1950}	δ_{1950}
BI CVn	13 00 56.027	+36 53 06.23
BO CVn	13 57 02.939	+41 03 41.76
R CMa	07 17 12.341	−16 18 00.39
UW CMa	07 16 35.390	−24 27 58.28
VW CMa	07 10 22.20	−25 24 51.8
EZ CMa	06 52 08.092	−23 51 51.60
FP CMa	07 08 34.76	−30 34 46.1
FM CMa	07 03 22.907	−12 44 04.08
FN CMa	07 04 19.804	−11 12 55.96
FZ CMa	07 00 21.896	−11 22 45.98
GG CMa	07 11 51.659	−30 59 48.41
HL CMa	06 43 03.2	−16 48 23.
HQ CMa	07 18 53.056	−26 52 08.01
SV CMi	07 28 27.	+06 05 00.
XZ CMi	07 51 29.	+03 46 48.
YY CMi	08 04 02.833	+02 04 27.19
AK CMi	07 37 37.	+04 00 00.
BG CMi	07 28 44.45	+10 02 47.3
BH CMi	08 00 00.4	+01 51 38.
β CMi	07 24 26.357	+08 23 29.89
δ Cap	21 44 16.993	−16 21 18.42
X Car	08 30 11.601	−59 03 25.26
ST Car	10 14 11.11	−59 57 56.1
DV Car	10 38 11.	−59 56 24.
DW Car	10 41 15.06	−59 46 26.5
EM Car	11 09 56.419	−60 49 23.03

GCVS	α_{1950}	δ_{1950}
EN Car	11 10 00.	−60 27 06.
EX Car	10 23 21.	−63 23 00.
EZ Car	10 41 02.63	−62 07 48.1
GG Car	10 53 58.015	−60 07 30.74
GL Car	11 12 30.44	−60 23 13.1
GM Car	10 35 21.841	−58 58 47.08
GW Car	09 34 57.419	−59 45 39.57
HH Car	10 51 35.64	−59 11 18.7
HP Car	10 17 46.531	−57 09 12.71
IR Car	11 06 58.	−59 24 06.
OY Car	10 05 16.87	−69 59 25.5
PX Car	06 19 59.828	−54 31 28.63
QU Car	11 03 49.62	−68 21 44.8
QX Car	09 52 56.908	−58 11 01.77
QZ Car	10 42 27.048	−59 43 49.19
V343 Car	08 39 30.824	−59 34 55.29
V348 Car	10 25 07.31	−57 25 13.5
V357 Car	09 09 39.120	−58 45 41.26
V367 Car	09 55 05.716	−57 24 58.24
V377 Car	09 23 58.629	−57 08 43.50
V385 Car	11 04 18.018	−65 14 21.13
V396 Car	09 53 14.399	−57 29 24.61
V398 Car	10 24 41.42	−58 23 07.9
V428 Car	10 51 43.77	−59 14 47.2
V429 Car	10 39 22.612	−59 24 54.64
V431 Car	11 07 56.867	−60 42 27.02
RZ Cas	02 44 22.790	+69 25 33.10
TV Cas	00 16 36.071	+58 51 41.93
TW Cas	02 41 44.344	+65 30 58.93
TX Cas	02 48 14.963	+62 34 39.82
UU Cas	23 48 11.28	+60 37 57.8
XX Cas	01 26 16.047	+60 42 36.07
YZ Cas	00 42 18.429	+74 42 54.68
ZZ Cas	00 30 38.86	+62 14 07.9
AM Cas	02 21 51.	+71 04 30.
AO Cas	00 15 03.362	+51 09 19.72

GCVS	α_{1950}	δ_{1950}
AR Cas	23 27 42.766	+58 16 23.18
BC Cas	23 48 48.71	+60 01 29.2
CC Cas	03 10 07.368	+59 22 38.39
CW Cas	00 42 54.38	+62 48 45.5
DN Cas	02 19 29.00	+60 36 12.5
DO Cas	02 37 34.612	+60 20 23.07
GU Cas	00 13 44.82	+56 04 07.1
GX Cas	00 45 59.	+56 36 36.
HT Cas	01 07 05.425	+59 48 38.70
KL Cas	00 48 43.79	+58 35 34.4
KU Cas	01 27 48.500	+57 38 48.20
MT Cas	00 12 06.	+54 23
OX Cas	01 05 50.90	+61 12 16.2
QQ Cas	23 43 10.92	+59 37 42.6
QX Cas	23 56 10.880	+60 52 58.18
V368 Cas	03 08 36.873	+59 43 56.04
V373 Cas	23 53 02.700	+57 08 02.20
V375 Cas	23 54 37.99	+62 43 40.0
V381 Cas	00 30 07.26	+49 03 06.6
V425 Cas	23 01 34.91	+53 01 04.5
V452 Cas	00 49 24.795	+53 35 26.75
V486 Cas	00 39 48.850	+52 03 48.22
V523 Cas	00 37 17.628	+49 57 53.84
V559 Cas	02 21 54.217	+61 19 28.35
V592 Cas	00 18 10.327	+55 25 38.39
V615 Cas	02 36 40.574	+61 00 54.84
V630 Cas	23 46 22.67	+51 10 59.0
V640 Cas	00 03 37.946	+58 09 29.61
V646 Cas	01 27 12.654	+62 28 03.12
V649 Cas	23 14 17.395	+61 41 23.90
V651 Cas	23 46 05.315	+57 28 15.71
V662 Cas	01 14 41.693	+65 01 43.04
β Cas	00 06 29.735	+58 52 26.77
ο Cas	00 41 55.654	+48 00 40.00
RR Cen	14 13 24.877	−57 37 22.09
RZ Cen	12 58 45.99	−64 21 28.1
SV Cen	11 45 30.48	−60 17 16.0
VZ Cen	11 49 59.812	−61 14 45.12
AS Cen	11 10 54.	−56 51 24.

GCVS	α_{1950}	δ_{1950}
BH Cen	11 36 49.17	−63 08 37.5
BV Cen	13 28 09.54	−54 43 05.9
LW Cen	11 35 11.924	−63 04 14.28
LZ Cen	11 48 04.320	−60 30 56.21
MN Cen	11 25 46.872	−61 08 08.32
MP Cen	11 41 21.54	−61 27 56.7
MU Cen	12 10 16.80	−44 11 34.3
NN Cen	13 11 05.	−60 36 30.
OZ Cen	13 43 25.	−59 00 54.
V346 Cen	11 40 26.17	−62 09 26.2
V373 Cen	12 23 23.91	−45 32 58.8
V379 Cen	13 22 06.824	−59 31 16.74
V380 Cen	13 24 04.276	−61 36 52.54
V436 Cen	11 11 36.87	−37 24 26.3
V442 Cen	11 22 25.	−35 37 18.
V485 Cen	12 54 39.	−32 57 00.
V504 Cen	14 09 45.	−40 07
V591 Cen	12 39 37.	−33 17 18.
V593 Cen	13 13 58.03	−62 21 45.6
V606 Cen	13 18 22.400	−60 15 32.94
V676 Cen	14 34 41.5	−38 37 43.
V677 Cen	14 39 23.	−40 14 36.
V685 Cen	11 22 09.703	−57 27 10.71
V701 Cen	13 28 31.522	−51 30 52.20
V716 Cen	14 10 15.197	−54 23 31.03
V747 Cen	13 36 22.63	−44 50 41.2
V752 Cen	11 40 18.375	−35 32 17.06
V757 Cen	13 48 59.555	−36 22 33.15
V758 Cen	13 49 24.087	−55 17 40.37
V759 Cen	14 07 28.904	−47 31 59.91
V779 Cen	11 19 01.9	−60 20 57.
V788 Cen	12 06 18.122	−44 02 49.38
V790 Cen	13 19 20.755	−60 42 38.14
V801 Cen	11 45 33.632	−61 55 43.90
V803 Cen	13 20 50.	−41 28 56.
V822 Cen	14 55 20.651	−31 27 46.68
V830 Cen	11 45 02.3	−61 40 33.
V831 Cen	13 09 09.247	−59 39 17.43
V834 Cen	14 05 58.2	−45 03 04.6
V838 Cen	11 42 11.027	−49 08 21.42

GCVS	α_{1950}	δ_{1950}
V839 Cen	12 56 03.953	−36 42 19.24
V840 Cen	13 17 42.36	−55 34 30.1
ν Cen	13 46 29.739	−41 26 21.52
U Cep	00 57 44.960	+81 36 24.67
SU Cep	21 45 04.16	+57 03 42.0
VW Cep	20 38 02.972	+75 24 57.96
WZ Cep	23 20 26.39	+72 38 30.6
XZ Cep	22 30 50.559	+66 53 34.27
ZZ Cep	22 43 20.184	+67 51 55.48
AH Cep	22 46 03.889	+64 47 52.45
AI Cep	21 44 45.358	+56 41 07.57
BS Cep	22 27 27.805	+64 59 11.40
CQ Cep	22 34 56.770	+56 38 45.88
CW Cep	23 02 01.066	+63 07 37.84
CX Cep	22 07 48.964	+57 29 43.36
DH Cep	22 44 54.272	+57 49 13.60
EG Cep	20 17 16.981	+76 39 10.91
EM Cep	21 52 21.867	+62 22 39.81
GK Cep	21 30 21.043	+70 36 07.09
GP Cep	22 16 54.536	+55 52 29.89
GS Cep	22 49 26.31	+56 44 23.0
GT Cep	22 55 59.145	+68 08 22.09
GW Cep	01 40 40.82	+79 49 52.4
IL Cep	22 51 18.386	+61 52 46.53
KY Cep	22 30 22.	+57 24 24.
LZ Cep	22 00 23.540	+57 45 30.82
NN Cep	23 00 04.241	+62 14 34.90
NY Cep	22 56 41.180	+62 48 32.58
V368 Cep	23 17 50.188	+78 43 43.62
β Cep	21 28 01.326	+70 20 27.85
TT Cet	01 44 28.	−10 00 06.
TW Cet	01 46 31.80	−21 08 26.7
VV Cet	00 53 11.	−02 22 00.
VY Cet	01 47 11.	−19 52 36.
WW Cet	00 08 51.66	−11 45 25.3

GCVS	α_{1950}	δ_{1950}
WX Cet	01 14 37.52	−18 12 10.4
YY Cet	01 57 49.205	−18 26 58.19
AA Cet	01 56 40.618	−23 09 44.85
AB Cet	02 23 37.678	−15 33 54.52
BE Cet	00 20 18.035	−12 29 14.89
BI Cet	01 20 16.664	+00 27 16.10
Z Cha	08 08 49.94	−76 23 11.6
RS Cha	08 44 58.108	−78 53 15.10
RZ Cha	10 42 26.855	−81 46 25.97
ζ Cha	09 35 25.599	−80 43 01.70
AQ Cir	14 33 17.76	−64 32 24.3
BD Cir	14 47 26.	−55 42 42.
RS Col	05 13 33.09	−28 48 26.8
TV Col	05 27 34.4	−32 51 24.6
TX Col	05 41 44.5	−41 03 13.
λ Col	05 51 17.886	−33 48 40.66
RW Com	12 30 32.35	+26 59 32.7
RZ Com	12 32 35.53	+23 36 45.5
SS Com	12 47 10.	+18 58 30.
AL Com	12 29 54.47	+14 37 15.85
CC Com	12 09 34.53	+22 48 38.0
DD Com	12 26 15.	+22 00
FK Com	13 28 24.772	+24 29 25.23
GO Com	12 54 11.3	+26 52 55.
GP Com	13 03 16.00	+18 17 04.2
IL Com	12 22 31.887	+25 50 15.38
TZ CrA	18 15 11.385	−43 22 52.61
BP CrA	18 33 26.	−37 28 18.
FS CrA	18 02 47.	−37 31 12.
V394 CrA	17 56 58.18	−39 00 29.3
V634 CrA	18 30 50.34	−42 29 38.2

GCVS	α_{1950}	δ_{1950}
V681 CrA	18 34 04.330	−42 59 55.58
ϵ CrA	18 55 21.086	−37 10 27.98
U CrB	15 16 08.916	+31 49 43.37
RW CrB	15 37 12.527	+29 47 00.77
TW CrB	16 04 47.386	+27 24 33.36
TZ CrB	16 12 48.252	+33 59 02.62
α CrB	15 32 34.145	+26 52 54.75
δ CrB	15 47 29.713	+26 13 13.16
W Crv	12 05 02.	−12 52 48.
Y Crv	12 35 34.10	−14 43 31.2
RV Crv	12 35 03.324	−19 18 10.62
SX Crv	12 37 37.339	−18 31 32.40
SV Crt	11 14 26.026	−06 51 41.86
SZ Crt	11 18 56.573	−20 10 41.13
TT Crt	11 32 14.98	−11 28 53.1
ZZ Cru	12 03 09.31	−63 13 32.0
AB Cru	12 14 55.850	−57 53 12.68
AI Cru	12 03 31.46	−60 58 42.4
BU Cru	12 50 37.653	−60 05 09.62
CC Cru	12 50 47.27	−60 03 37.5
CD Cru	12 40 53.23	−62 48 49.4
θ^2 Cru	12 01 43.859	−62 53 14.26
Y Cyg	20 50 03.571	+34 28 07.77
SS Cyg	21 40 44.402	+43 21 23.31
WZ Cyg	20 51 12.122	+38 38 16.09
CG Cyg	20 56 13.18	+34 58 50.5
DK Cyg	21 32 56.33	+34 22 21.0

GCVS	α_{1950}	δ_{1950}
EM Cyg	19 36 42.040	+30 23 33.00
EY Cyg	19 52 44.103	+32 13 58.61
GO Cyg	20 35 23.125	+35 15 39.14
HN Cyg	19 31 40.070	+28 49 41.45
KR Cyg	20 07 05.122	+30 24 10.57
KV Cyg	20 13 37.930	+35 59 01.34
MR Cyg	21 57 00.294	+47 44 36.86
NU Cyg	19 49 52.	+38 59 30.
V380 Cyg	19 48 54.286	+40 28 17.88
V382 Cyg	20 16 53.877	+36 10 59.54
V388 Cyg	20 27 11.48	+31 13 07.3
V389 Cyg	21 06 31.463	+30 00 09.40
V404 Cyg	20 22 06.37	+33 42 16.6
V444 Cyg	20 17 42.595	+38 34 24.27
V448 Cyg	20 04 16.624	+35 14 29.31
V453 Cyg	20 04 42.130	+35 35 44.25
V470 Cyg	20 17 35.404	+40 43 47.71
V477 Cyg	20 03 29.484	+31 49 40.28
V478 Cyg	20 17 48.291	+38 10 39.06
V498 Cyg	20 21 21.22	+39 00 02.3
V503 Cyg	20 25 34.760	+43 31 25.75
V516 Cyg	20 45 20.750	+41 44 22.30
V542 Cyg	19 48 13.695	+58 24 21.60
V548 Cyg	19 55 47.054	+54 39 50.45
V630 Cyg	21 32 59.435	+40 26 54.20
V632 Cyg	21 33 54.	+40 12
V699 Cyg	20 15 11.565	+38 58 59.53
V700 Cyg	20 29 13.983	+38 36 55.18
V729 Cyg	20 30 34.848	+41 08 04.04
V747 Cyg	20 35 42.	+50 06 00.
V751 Cyg	20 50 26.65	+44 08 04.5
V753 Cyg	19 21 23.12	+48 06 18.6
V795 Cyg	19 32 37.875	+31 25 34.25
V811 Cyg	19 46 31.645	+36 19 03.55
V832 Cyg	20 58 07.395	+47 19 30.08
V836 Cyg	21 19 20.496	+35 31 22.15
V859 Cyg	19 25 13.37	+28 50 43.1
V1028 Cyg	19 59 50.680	+56 48 12.50
V1034 Cyg	20 03 35.37	+30 49 54.5
V1060 Cyg	21 05 44.	+37 01 54.
V1073 Cyg	21 22 54.511	+33 28 17.54
V1113 Cyg	19 21 30.265	+52 38 08.10
V1143 Cyg	19 37 33.728	+54 51 21.44
V1187 Cyg	20 14 57.75	+41 48 26.6
V1191 Cyg	20 15 06.37	+41 48 18.4
V1251 Cyg	21 39 03.	+48 26
V1285 Cyg	19 42 59.36	+35 52 15.4
V1356 Cyg	19 54 39.43	+29 51 25.1
V1357 Cyg	19 56 28.879	+35 03 54.77
V1363 Cyg	20 04 15.760	+33 33 57.50
V1396 Cyg	20 58 08.601	+39 52 39.58
V1425 Cyg	21 09 32.920	+55 07 36.53
V1454 Cyg	19 51 46.170	+35 13 51.15
V1481 Cyg	21 42 13.88	+53 29 32.2
V1500 Cyg	21 09 52.857	+47 56 41.05
V1504 Cyg	19 27 20.	+42 59 24.
V1582 Cyg	19 56 11.328	+43 11 40.30
V1668 Cyg	21 40 38.06	+43 48 10.1
V1676 Cyg	20 04 04.633	+35 38 38.28
V1679 Cyg	20 12 39.405	+36 30 28.15
V1687 Cyg	20 18 46.706	+43 41 42.90
V1696 Cyg	20 39 54.358	+52 24 29.00
V1720 Cyg	21 05 58.573	+48 39 11.34
V1741 Cyg	19 24 20.981	+36 12 59.47
V1746 Cyg	19 58 05.074	+36 54 16.84
V1765 Cyg	19 46 56.044	+33 18 40.04
V1769 Cyg	20 08 21.611	+36 01 39.80
V1770 Cyg	20 10 17.128	+38 12 15.05
V1773 Cyg	20 17 13.390	+46 09 52.89
V1776 Cyg	20 22 09.	+46 20 40.
V1792 Cyg	20 49 35.426	+37 48 03.70
V1803 Cyg	21 04 39.935	+38 29 59.10
V1809 Cyg	21 16 35.137	+43 44 05.12
V1898 Cyg	21 02 08.677	+46 07 52.41
V1918 Cyg	19 24 55.820	+52 20 47.70
V1923 Cyg	20 30 17.9	+40 38 16.
V1931 Cyg	20 59 26.089	+45 57 31.22
α Cyg	20 39 43.539	+45 06 03.12

GCVS

GCVS	α_{1950}	δ_{1950}
CM Del	20 22 39.93	+17 08 07.0
DM Del	20 37 16.454	+14 15 05.69
FZ Del	20 51 02.672	+04 27 25.20
HO Del	20 34 36.	+12 53
HR Del	20 40 04.199	+18 58 51.43
LS Del	20 54 53.056	+19 27 18.84
RW Dor	05 18 43.24	−68 16 33.7
AA Dor	05 32 08.18	−69 55 06.7
AG Dor	04 06 11.668	−52 42 00.44
γ Dor	04 14 42.867	−51 36 42.99
RZ Dra	18 22 21.813	+58 52 34.23
TW Dra	15 33 07.055	+64 04 22.39
TZ Dra	18 20 50.701	+47 32 32.22
YY Dra?	11 40 48.88	+71 57 58.5
AB Dra	19 51 04.475	+77 36 40.59
AI Dra	16 55 08.726	+52 46 31.80
AX Dra	12 38 07.40	+66 33 37.1
BE Dra	18 26 15.72	+68 55 52.6
BH Dra	19 02 46.279	+57 22 52.44
BV Dra	15 10 50.660	+62 02 32.88
BW Dra	15 10 50.422	+62 02 48.65
BY Dra	18 32 44.674	+51 40 59.90
CX Dra	18 45 35.976	+52 55 56.41
DE Dra	20 18 46.789	+62 05 53.62
DG Dra	19 04 08.645	+57 02 50.63
DK Dra	12 13 21.404	+72 49 45.35
DM Dra	15 33 00.	+59 57
DO Dra	11 40 48.88	+71 57 58.5
EF Dra	18 05 58.280	+69 44 53.09
κ Dra	12 31 21.550	+70 03 48.96
ϕ Dra	18 21 28.502	+71 18 42.09
S Equ	20 54 43.193	+04 53 13.36
SV Equ	20 54 49.875	+05 37 15.97
RU Eri	03 52 25.246	−15 04 49.57
UX Eri	03 07 24.89	−07 04 53.0
WX Eri	03 21 50.132	−00 52 47.00
YY Eri	04 09 46.525	−10 35 43.58
AH Eri	04 20 18.93	−13 28 27.3
AQ Eri	05 03 43.95	−04 12 03.6
BL Eri	04 09 26.88	−11 55 07.7
BV Eri	03 49 30.314	−10 40 39.05
BW Eri	04 04 33.905	−27 48 06.36
BZ Eri	04 09 45.	−06 09 12.
CC Eri	02 32 28.419	−44 00 38.92
CT Eri	04 27 31.924	−33 41 04.34
CU Eri	02 44 34.929	−13 33 00.24
DS Eri	03 47 28.63	−42 45 59.0
EF Eri	03 12 00.02	−22 46 47.1
EI Eri	04 07 15.207	−08 01 27.35
EM Eri	04 18 17.198	−07 42 38.65
EN Eri	05 04 17.196	−04 43 14.92
δ Eri	03 40 51.035	−09 55 53.05
r^9 Eri	03 57 47.488	−24 09 24.93
UX For	02 41 25.470	−38 08 20.27
UZ For	03 33 20.89	−25 54 17.4
U Gem	07 52 07.807	+22 08 04.61
RW Gem	05 58 25.764	+23 08 27.22
WW Gem	06 09 03.	+23 31 06.
YY Gem	07 31 26.235	+31 58 50.36
AW Gem	07 19 32.950	+28 36 03.87
IR Gem	06 44 25.77	+28 09 42.5
LT Gem	06 15 22.778	+23 35 30.97
OU Gem	06 23 14.318	+18 47 20.98
σ Gem	07 40 11.374	+29 00 22.23

GCVS	α_{1950}	δ_{1950}
V Gru	21 48 46.938	−42 36 28.98
RV Gru	22 36 25.47	−47 08 05.6
RZ Gru	22 44 18.21	−43 00 29.1
AK Gru	23 02 12.12	−44 12 21.1
BC Gru	22 41 50.50	−48 25 59.4
CE Gru	21 34 45.2	−43 55 46.
Z Her	17 55 51.349	+15 08 31.12
RX Her	18 28 20.265	+12 34 31.12
SZ Her	17 37 46.12	+32 58 18.2
TT Her	16 52 08.612	+16 55 02.73
AH Her	16 42 05.994	+25 20 31.68
AK Her	17 11 43.180	+16 24 27.89
AM Her	18 14 58.75	+49 50 54.9
CH Her	18 32 41.78	+24 45 44.3
DI Her	18 51 21.765	+24 12 54.00
DQ Her	18 06 05.38	+45 51 02.4
HS Her	18 48 45.961	+24 39 36.06
IZ Her	18 48 45.961	+24 39 36.06
PR Her	18 06 28.	+38 47
V533 Her	18 12 46.38	+41 50 22.1
V544 Her	16 35 39.	+08 43
V592 Her	16 28 46.8	+21 23 09.
V600 Her	16 34 40.598	+14 34 30.70
V624 Her	17 42 00.614	+14 25 48.97
V631 Her	18 06 48.	+34 25
V644 Her	16 52 57.654	+13 41 57.63
V728 Her	17 16 29.521	+41 53 46.13
V772 Her	18 03 42.272	+21 26 26.17
V772 Her	18 03 42.272	+21 26 26.17
V775 Her	18 53 47.211	+23 29 40.63
V795 Her	17 11 05.73	+33 34 48.5
V815 Her	18 06 19.888	+29 40 57.54
V819 Her	17 20 05.060	+40 01 22.05
V820 Her	18 00 14.676	+20 49 55.39
V822 Her	18 49 44.326	+13 54 15.54
V825 Her	17 17 00.9	+41 18 55.

GCVS	α_{1950}	δ_{1950}
V829 Her	16 53 59.426	+35 15 39.32
ι Her	17 38 03.064	+46 01 55.28
u Her	17 15 28.612	+33 09 10.07
RU Hor	02 45 01.	−63 47 36.
SY Hor	04 12 47.27	−46 34 30.2
SZ Hor	03 05 40.	−56 19 36.
TU Hor	03 29 00.652	−47 32 42.06
VZ Hor	02 50 42.701	−61 49 26.69
WW Hor	02 34 32.2	−52 32 15.
TT Hya	11 10 45.689	−26 11 34.26
WY Hya	08 11 37.	+00 39 30.
AV Hya	09 32 25.	+05 32 36.
DF Hya	08 52 23.	+06 17 36.
DK Hya	09 42 33.	−20 40 42.
EU Hya	08 39 36.	−06 33 00.
EX Hya	12 49 42.72	−28 58 40.7
EZ Hya	09 24 17.66	−13 32 03.3
FG Hya	08 24 26.810	+03 40 50.83
GY Hya	14 27 42.	−25 39 24.
HS Hya	10 22 12.430	−18 50 18.55
KW Hya	09 09 57.872	−06 54 13.73
LO Hya	08 25 57.689	−02 21 00.60
LR Hya	10 33 33.052	−11 39 01.12
LW Hya	12 50 52.905	−22 36 06.03
χ^2 Hya	11 03 31.885	−27 01 02.10
RT Hyi	01 10 26.56	−79 26 33.9
VW Hyi	04 09 32.95	−71 25 28.9
WX Hyi	02 08 29.42	−63 32 47.8
BL Hyi	01 39 37.5	−68 08 32.

GCVS	α_{1950}	δ_{1950}
RS Ind	21 32 23.080	−70 33 28.79
ST Ind	20 31 51.01	−48 29 40.6
SU Ind	20 51 17.391	−45 55 16.81
TT Ind	20 29 46.	−56 44 00.
TU Ind	20 29 43.09	−45 36 15.9
BG Ind	21 54 59.023	−59 15 05.97
SW Lac	22 51 22.571	+37 40 18.88
AR Lac	22 06 39.437	+45 29 45.72
AW Lac	22 16 04.60	+54 12 59.4
CM Lac	21 58 03.584	+44 18 41.90
DI Lac	22 33 46.50	+52 27 26.1
EN Lac	22 54 06.327	+41 20 11.95
PP Lac	22 40 34.934	+53 09 20.58
V350 Lac	22 28 02.776	+49 06 00.43
V360 Lac	22 48 06.137	+41 41 17.91
V365 Lac	22 03 53.289	+47 59 15.34
T Leo	11 35 53.01	+03 38 46.9
U Leo	10 21 23.195	+14 15 37.69
X Leo	09 48 20.23	+12 06 35.9
RZ Leo	11 34 48.49	+02 05 34.6
TU Leo	09 27 00.	+21 36 42.
TX Leo	10 32 24.801	+08 54 33.57
UV Leo	10 35 40.955	+14 31 39.89
UZ Leo	10 37 53.919	+13 49 41.65
XY Leo A	09 58 55.919	+17 39 03.97
XY Leo B	09 58 55.919	+17 39 03.97
XZ Leo	09 59 50.289	+17 17 17.18
AM Leo	10 59 34.162	+10 09 53.23
AP Leo	11 02 29.464	+05 25 21.48
BL Leo	11 42 57.	+25 03
CE Leo	11 41 27.	+23 37
DG Leo	09 47 02.359	+21 24 48.04
DH Leo	09 57 13.305	+24 47 36.13
DO Leo	10 38 11.4	+15 27 16.
DP Leo	11 14 38.07	+18 14 05.1
DS Leo	10 59 57.200	+22 14 13.72

GCVS	α_{1950}	δ_{1950}
RT LMi	09 46 49.54	+34 41 16.9
RU LMi	09 59 11.325	+34 05 30.80
ST LMi	11 02 58.5	+25 22 42.
SU LMi	09 31 09.969	+36 37 14.38
SV LMi	09 32 39.994	+36 02 14.94
SX LMi	10 51 45.5	+30 22 48.
Lep		
VZ Lib	15 29 04.	−15 31 00.
ES Lib	15 14 03.148	−12 51 21.50
δ Lib	14 58 17.808	−08 19 18.19
BR Lup	15 32 32.	−40 24 30.
FT Lup	14 56 35.57	−42 47 02.9
GG Lup	15 15 39.095	−40 36 23.40
HP Lup	15 08 17.021	−36 03 38.08
δ Lup	15 18 04.851	−40 28 04.92
RR Lyn	06 22 12.642	+56 18 51.33
SW Lyn	08 04 16.873	+41 56 47.10
UV Lyn	09 00 13.775	+38 17 47.88
WY Lyn	07 35 14.	+40 16 42.
BF Lyn	09 19 17.443	+40 25 11.74
BH Lyn	08 18 53.4	+51 15 01.
TT Lyr	19 25 57.738	+41 35 55.19
TZ Lyr	18 14 14.17	+41 05 35.2
AY Lyr	18 42 44.149	+37 56 42.35
CY Lyr	18 50 40.36	+26 41 46.6
DM Lyr	18 56 49.	+30 11 30.

GCVS	α_{1950}	δ_{1950}
FL Lyr	19 10 37.590	+46 14 17.65
LL Lyr	18 33 31.325	+38 17 34.45
MV Lyr	19 05 44.34	+43 56 20.7
V391 Lyr	18 19 31.575	+38 46 13.75
V478 Lyr	19 05 35.458	+30 10 23.75
β Lyr	18 48 13.936	+33 18 12.51
TU Men	04 43 32.82	−76 42 18.8
TY Men	05 31 45.039	−81 37 23.92
AB Men	04 42 46.5	−70 04 07.
ι Men	05 38 39.383	−78 50 55.65
AU Mic	20 42 03.756	−31 31 05.29
TU Mon	07 50 49.059	−02 54 40.73
AO Mon	07 04 07.75	−04 32 42.7
BM Mon	07 06 10.79	+00 46 35.9
BT Mon	06 41 15.81	−01 58 08.85
CW Mon	06 34 20.72	+00 04 52.9
DD Mon	06 43 24.	−00 13 42.
EQ Mon	06 55 15.	−09 44 00.
HI Mon	06 53 20.07	−03 58 38.9
IM Mon	06 20 31.535	−03 15 01.97
KQ Mon	07 28 58.61	−10 15 24.5
NS Mon	06 33 26.	+07 54 18.
V505 Mon	06 43 13.331	+02 33 11.10
V578 Mon	06 29 21.30	+04 54 54.1
V616 Mon	06 20 11.188	−00 19 10.61
V635 Mon	07 59 19.609	−08 27 13.65
V640 Mon	06 34 43.220	+06 10 44.47
V641 Mon	06 37 43.434	+09 51 54.72
V645 Mon	07 58 40.698	−01 15 08.75
V649 Mon	06 34 29.664	+06 06 08.90
V684 Mon	06 37 53.245	+09 50 06.93

GCVS	α_{1950}	δ_{1950}
TU Mus	11 28 56.052	−65 27 59.47
TV Mus	11 37 34.	−64 32
BR Mus	12 02 14.82	−72 35 28.8
FH Mus	12 36 56.818	−66 14 12.09
GQ Mus	11 49 35.08	−66 55 38.9
GS Mus	12 03 12.748	−69 17 41.03
η Mus	13 11 49.986	−67 37 48.79
θ Mus	13 04 52.075	−65 02 21.47
Z Nor	16 01 22.456	−46 09 27.41
SV Nor	15 41 13.	−59 39 54.
AB Nor	15 45 49.	−42 55 54.
GX Nor	16 19 55.	−53 23 24.
HP Nor	16 16 55.51	−54 46 13.9
IK Nor	16 21 27.10	−55 13 12.1
IT Nor	16 13 35.68	−44 51 55.6
QV Nor	15 38 38.62	−52 13 36.9
V343 Nor	15 34 58.574	−57 32 36.68
UZ Oct	04 52 47.738	−84 53 50.59
AO Oct	20 59 25.	−75 33 18.
U Oph	17 13 59.357	+01 15 53.07
V380 Oph	17 47 46.91	+06 06 17.5
V426 Oph	18 05 24.78	+05 51 20.2
V442 Oph	18 05 24.786	+05 51 18.78
V451 Oph	18 26 52.942	+10 51 28.93
V502 Oph	16 38 47.763	+00 36 08.38
V508 Oph	17 56 31.03	+13 29 59.8
V566 Oph	17 54 24.291	+04 59 30.82
V699 Oph	16 22 36.	−04 33 48.
V839 Oph	18 06 58.344	+09 08 27.59
V841 Oph	16 56 41.885	−12 48 59.45
V954 Oph	18 06 50.	+01 22 36.
V963 Oph	18 12 44.	+06 47
V986 Oph	18 02 05.802	+01 54 53.89
V1010 Oph	16 46 36.157	−15 34 54.81

GCVS	α_{1950}	δ_{1950}
V1022 Oph	16 18 43.	−03 56 14.
V2051 Oph	17 05 14.00	−25 44 38.2
V2060 Oph	16 26 13.	−05 43 56.
V2101 Oph	17 06 31.	−27 14 54.
V2133 Oph	16 33 43.677	−02 13 10.02
V2213 Oph	17 02 43.918	+00 46 28.23
V2215 Oph	17 13 08.682	−26 28 33.11
θ Oph	17 18 56.157	−24 57 05.20
χ Oph	16 24 07.298	−18 20 40.08
UW Ori	05 52 54.66	+20 09 52.8
VV Ori AB	05 30 59.063	−01 11 23.03
VV Ori ABC	05 30 59.063	−01 11 23.03
BI Ori	05 21 16.94	+00 57 48.5
BM Ori	05 32 48.669	−05 25 00.57
CN Ori	05 49 40.39	−05 25 40.8
CZ Ori	06 13 51.13	+15 25 17.8
ER Ori	05 08 50.595	−08 36 59.85
FZ Ori	05 38 45.	+02 35 00.
NU Ori	05 33 03.747	−05 17 54.89
V1004 Ori	05 55 48.526	+01 50 01.00
V1016 Ori	05 32 48.356	−05 25 07.95
V1028 Ori	06 19 17.7	+10 55 10.
V1030 Ori	05 36 16.398	−02 37 17.58
V1031 Ori	05 45 05.621	−10 32 58.15
V1046 Ori	05 32 53.307	−04 31 30.89
V1159 Ori	05 26 29.	−03 36 12.
V1192 Ori	04 57 30.816	+03 12 48.15
V1193 Ori	05 13 53.16	−00 15 28.5
δ Ori	05 29 27.017	−00 20 04.41
ϵ Ori	05 33 40.476	−01 13 56.30
η Ori	05 21 57.674	−02 26 29.65
π^3 Ori	04 51 38.661	+02 21 37.24
ψ Ori	05 24 12.930	+03 03 14.26
BD Pav	18 38 54.66	−57 33 43.0
BF Pav	18 41 13.53	−59 41 35.5
HY Pav	20 18 07.63	−73 52 00.1
KZ Pav	20 53 50.503	−70 36 57.94
LT Pav	19 43 07.68	−71 08 59.8

GCVS	α_{1950}	δ_{1950}
U Peg	23 55 25.150	+15 40 30.80
RU Peg	22 11 35.54	+12 27 16.4
AG Peg	21 48 36.187	+12 23 27.65
AT Peg	22 10 54.207	+08 10 38.36
BB Peg	22 20 30.	+16 04 48.
BX Peg	21 36 35.24	+26 27 59.3
DI Peg	23 29 43.239	+14 41 35.02
EE Peg	21 37 34.126	+08 57 26.46
EF Peg	21 12 40.	+13 51 36.
EZ Peg	23 14 26.026	+25 26 46.28
GX Peg	22 29 15.036	+29 17 08.97
HX Peg	23 37 51.8	+12 21 02.
II Peg	23 52 29.081	+28 21 17.88
IM Peg	22 50 34.454	+16 34 31.28
IP Peg	23 20 39.47	+18 08 42.0
KP Peg	21 24 17.421	+13 28 14.79
KS Peg	23 35 25.105	+18 07 24.38
KT Peg	23 36 59.446	+27 57 58.55
γ Peg	00 10 39.447	+14 54 20.57
V Per	01 58 29.305	+56 29 36.8
RY Per	02 42 19.639	+47 56 01.86
TZ Per	02 10 18.340	+58 08 52.41
UV Per	02 06 39.40	+56 57 10.0
UW Per	02 09 00.415	+56 51 16.4
AG Per	04 03 43.447	+33 18 46.44
DM Per	02 22 25.963	+55 52 40.13
FO Per	04 04 48.230	+51 06 52.70
FY Per	04 38 06.	+50 36 54.
GK Per	03 27 47.529	+43 44 04.67
IQ Per	03 56 06.773	+48 00 36.22
IW Per	03 30 16.731	+39 43 57.63
IX Per	03 31 53.836	+31 51 04.16
IZ Per	01 28 56.492	+53 45 43.33
KR Per	04 33 34.82	+44 06 39.6
KT Per	01 34 01.700	+50 42 04.80
MX Per	04 05 01.311	+47 34 51.78
PY Per	02 46 48.	+37 27
QY Per	03 12 21.	+42 16
V336 Per	03 19 39.	+41 27

GCVS	α_{1950}	δ_{1950}
V355 Per	02 12 32.399	+57 30 47.09
V423 Per	03 12 53.372	+34 30 18.42
V432 Per	03 06 51.669	+42 40 49.58
V436 Per	01 48 41.291	+54 54 02.85
V438 Per	02 14 16.084	+56 24 38.60
V467 Per	03 46 22.636	+32 56 23.13
V490 Per	04 03 28.216	+32 15 04.95
V491 Per	04 04 13.992	+37 56 41.15
V493 Per	02 37 32.967	+56 31 00.34
β Per	03 04 54.356	+40 45 52.46
ϵ Per	03 54 29.432	+39 52 02.54
ξ Per	03 55 42.825	+35 38 56.50
o Per	03 41 10.603	+32 07 53.49
ϕ Per	01 40 30.757	+50 26 15.92
b Per	04 14 28.414	+50 10 29.09
YZ Phe	01 40 22.	-46 12 00.
AD Phe	01 14 22.35	-39 58 21.6
AE Phe	01 30 29.024	-49 47 01.41
AG Phe	00 24 26.984	-40 09 29.29
AU Phe	01 48 22.38	-47 13 18.3
BC Phe	01 20 20.879	-56 59 31.42
ζ Phe	01 06 17.251	-55 30 45.72
RR Pic	06 35 09.799	-62 35 49.28
SZ Pic	05 51 57.204	-43 34 01.76
TV Pic	04 47 32.024	-47 13 14.59
TW Pic	05 34 02.4	-58 03 33.
TX Pic	05 34 41.153	-47 20 36.96
δ Pic	06 09 19.403	-54 57 24.59
SU Psc	01 26 42.	+19 21 24.
SZ Psc	23 10 50.577	+02 24 09.70
TY Psc	01 22 50.450	+32 07 35.60
UU Psc	00 12 24.138	+08 32 35.70
UV Psc	01 14 18.536	+06 32 52.97

GCVS	α_{1950}	δ_{1950}
VZ Psc	23 25 12.66	+04 34 34.6
XY Psc	01 07 36.	+03 17
ZZ Psc	23 26 15.94	+04 58 34.6
AE Psc	01 28 59.864	+22 29 03.90
AO Psc	22 52 43.081	-03 26 40.32
AQ Psc	01 18 26.843	+07 20 38.93
AY Psc	01 34 18.2	+07 01 09.
BC Psc	00 02 46.530	-05 59 13.96
RW PsA	22 06 56.98	-27 18 48.5
TW PsA	22 53 37.402	-31 49 50.61
TY PsA	22 46 55.5	-27 22 46.
TZ PsA	22 57 42.167	-34 00 41.25
V Pup	07 56 48.169	-49 06 30.34
TY Pup	07 30 35.866	-20 41 02.30
UY Pup	07 44 10.	-12 49 36.
UZ Pup	07 39 26.765	-13 16 30.71
VV Pup	08 12 52.22	-18 54 02.3
XZ Pup	08 11 22.061	-23 48 03.97
AU Pup	08 15 55.185	-41 33 05.63
AV Pup	08 22 18.	-16 14 36.
AW Pup	08 22 40.37	-28 39 56.0
AZ Pup	08 16 24.83	-34 46 25.4
BH Pup	08 06 32.407	-41 52 58.70
BV Pup	07 46 57.45	-23 26 25.2
BX Pup	07 52 09.	-24 11 42.
CP Pup	08 09 52.037	-35 12 04.35
GZ Pup	07 15 47.	-40 02 12.
HI Pup	07 32 17.93	-50 00 49.0
KY Pup	07 50 03.54	-26 36 33.2
MQ Pup	07 29 33.686	-37 53 42.19
NO Pup	08 24 28.064	-38 53 43.30
NW Pup	07 16 51.450	-36 39 00.62
PS Pup	07 29 53.564	-35 46 49.34
PU Pup	07 36 13.100	-25 15 00.39
PV Pup	07 43 10.625	-14 33 48.31
PZ Pup	08 00 04.929	-35 09 47.95
QZ Pup	07 50 52.396	-38 43 56.79

GCVS	α_{1950}	δ_{1950}
V344 Pup	07 34 40.891	-44 50 40.50
T Pyx	09 02 37.185	-32 10 47.60
RZ Pyx	08 49 56.062	-27 17 41.72
TT Pyx	08 46 21.553	-25 58 39.08
TX Pyx	08 40 29.52	-32 09 41.6
TY Pyx	08 57 34.039	-27 37 10.53
VV Pyx	08 25 19.808	-20 40 40.27
Ret		
U Sge	19 16 37.017	+19 31 04.26
V Sge	20 18 02.14	+20 56 38.6
RZ Sge	20 01 02.31	+16 54 23.3
SY Sge	19 52 39.05	+18 06 04.8
WY Sge	19 30 29.70	+17 38 24.5
WZ Sge	20 05 20.57	+17 33 30.0
AW Sge	19 56 21.	+16 33 06.
QR Sge	19 09 16.46	+16 46 36.0
QT Sge	19 46 17.99	+18 04 31.0
QX Sge	19 57 25.03882	+20 40 00.7185
RS Sgr	18 14 17.236	-34 07 35.38
GM Sgr	18 16 16.2	-25 25 43.
V356 Sgr	18 44 54.357	-20 19 49.29
V431 Sgr	19 15 30.	-33 30 24.
V505 Sgr	19 50 17.153	-14 43 57.84
V525 Sgr	19 04 02.445	-30 14 19.32
V551 Sgr	17 57 36.	-34 35 30.
V735 Sgr	17 56 40.	-29 33 42.
V743 Sgr	17 40 46.	-28 27 24.
V759 Sgr	17 47 11.	-27 24 06.

GCVS	α_{1950}	δ_{1950}
V779 Sgr	17 52 27.28	-28 17 31.3
V1089 Sgr	19 05 53.	-17 26 42.
V1223 Sgr	18 51 49.0	-31 13 39.2
V1276 Sgr	18 02 12.	-32 53 42.
V1647 Sgr	17 55 49.486	-36 56 08.06
V1723 Sgr	17 55 53.	-27 29 00.
V1830 Sgr	18 10 42.	-27 42 54.
V1944 Sgr	17 56 42.73	-27 17 39.1
V1961 Sgr	18 14 47.33	-25 45 19.4
V2038 Sgr	18 42 14.	-26 30 42.
V2323 Sgr	18 12 45.	-27 58 12.
V2349 Sgr	18 25 31.381	-16 44 02.08
V2509 Sgr	18 12 28.406	-35 39 16.25
V3454 Sgr	18 26 53.	-32 07 48.
V3792 Sgr	18 05 48.436	-25 28 55.10
V3863 Sgr	18 37 08.33	-24 33 52.3
V3885 Sgr	19 44 12.64	-42 07 51.5
V3894 Sgr	17 45 20.106	-26 57 32.15
V3903 Sgr	18 06 14.180	-23 59 51.90
V3941 Sgr	18 22 48.	-29 27 18.
V4019 Sgr	18 22 22.	-25 41 18.
V4066 Sgr	18 30 07.65	-23 06 40.4
V4072 Sgr	17 58 26.412	-32 42 54.63
V4089 Sgr	19 30 42.947	-40 08 37.91
V4138 Sgr	19 19 42.783	-20 44 16.77
V4140 Sgr	19 55 31.	-39 04 06.
μ Sgr	18 10 46.324	-21 04 25.46
υ Sgr	19 18 51.834	-16 03 01.82
U Sco	16 19 37.49	-17 45 42.9
AC Sco	16 43 29.	-27 18 00.
FQ Sco	17 04 51.	-32 37 42.
MM Sco	17 27 12.	-42 08 54.
V453 Sco	17 52 59.793	-32 28 06.35
V474 Sco	17 15 37.39	-31 31 53.6
V478 Sco	17 22 38.	-35 29 36.
V499 Sco	17 25 45.613	-32 57 54.91
V598 Sco	16 59 29.	-34 36 30.
V700 Sco	17 27 58.98	-31 20 30.8

GCVS	α_{1950}	δ_{1950}
V701 Sco	17 31 08.431	−32 28 17.54
V760 Sco	16 21 27.670	−34 46 45.74
V818 Sco	16 17 04.489	−15 31 14.78
V861 Sco	16 53 06.857	−40 44 43.53
V883 Sco	16 54 28.533	−37 55 12.01
V884 Sco	17 00 32.697	−37 46 28.76
V885 Sco	17 44 33.75	−37 37 23.5
V893 Sco	16 11 39.	−28 32
V900 Sco	16 50 27.600	−41 54 47.89
V906 Sco	17 50 34.637	−34 44 35.62
V918 Sco	16 32 51.149	−42 45 26.77
V919 Sco	16 48 48.358	−41 46 16.53
V954 Sco	16 35 19.607	−44 03 32.38
V959 Sco	17 50 02.726	−35 00 23.38
λ Sco	17 30 12.626	−37 04 09.63
μ^1 Sco	16 48 28.679	−37 57 48.92
σ Sco	16 18 08.667	−25 28 28.14
RT Scl	00 33 59.099	−25 56 55.09
SZ Scl	00 13 15.51	−31 22 22.2
VY Scl	23 26 21.5	−30 03 17.
VZ Scl	23 47 33.73	−26 39 33.1
AL Scl	23 52 41.682	−32 11 59.56
AN Scl	01 10 17.798	−29 26 40.07
AS Scl	01 03 10.366	−27 13 19.16
W Sct	18 21 43.60	−13 40 53.7
RS Sct	18 46 25.718	−10 17 56.27
RY Sct	18 22 42.706	−12 43 09.24
RZ Sct	18 23 48.968	−09 13 56.04
EQ Sct	18 24 14.0	−12 01 07.
FG Sct	18 42 16.	−06 11 42.
V391 Sct	18 25 14.	−15 56 45.
V430 Sct	18 22 24.821	−14 00 26.18

GCVS	α_{1950}	δ_{1950}
UZ Ser	18 08 33.31	−14 56 17.6
AU Ser	15 54 39.	+22 24 18.
CT Ser	15 43 19.76	+14 31 50.3
CV Ser	18 16 19.810	−11 39 16.24
LX Ser	15 35 45.00	+19 01 48.6
MR Ser	15 50 33.08	+19 05 17.7
MY Ser	18 15 17.602	−12 15 45.67
NN Ser	15 50 35.8	+13 03 35.
e Ser	17 38 36.137	−12 51 01.22
d Ser	18 24 38.902	+00 09 53.73
Y Sex	10 00 13.485	+01 20 11.57
RW Sex	10 17 27.328	−08 26 48.92
SW Sex	10 12 37.22	−02 53 35.1
RW Tau	04 00 49.539	+27 59 22.76
RZ Tau	04 33 42.934	+18 39 15.79
AH Tau	03 44 12.2	+24 57 51.
CD Tau	05 14 33.482	+20 04 48.20
CT Tau	05 55 42.40	+27 04 29.9
EQ Tau	03 45 16.	+22 10 12.
GR Tau	03 58 08.17	+20 16 30.5
GS Tau	04 03 32.054	+27 27 59.58
HU Tau	04 35 18.604	+20 35 09.65
HW Tau	05 00 36.	+26 19
V471 Tau	03 47 33.42	+17 05 46.2
V545 Tau	03 45 50.6	+23 49 33.
V660 Tau	03 45 30.2	+23 08 57.
V711 Tau	03 34 13.130	+00 25 32.96
V725 Tau	05 35 47.963	+26 17 18.02
V775 Tau	04 19 14.250	+13 57 38.10
V781 Tau	05 47 05.750	+26 56 58.03
V817 Tau	03 54 05.621	+23 01 55.17
V833 Tau	04 33 41.765	+27 02 01.03
V834 Tau	04 38 22.034	+20 48 34.57
V837 Tau	03 34 10.194	+25 49 51.24
V891 Tau	04 12 45.952	+06 04 37.48
V969 Tau	03 42 42.7	+24 45 06.
V1024 Tau	04 16 28.992	+21 01 22.50
ζ Tau	05 34 39.263	+21 06 50.00

GCVS

GCVS	α_{1950}	δ_{1950}
θ^2 Tau	04 25 48.214	+15 45 41.88
λ Tau	03 57 54.378	+12 21 02.13
AB Tel	18 33 41.	−51 00 24.
AQ Tel	18 45 23.	−51 39 30.
AV Tel	18 46 27.	−50 54 36.
HO Tel	19 48 21.623	−46 59 23.70
KK Tel	20 24 54.	−52 28 24.
PR Tel	19 25 46.	−52 26 18.
PZ Tel	18 49 13.745	−50 14 26.92
X Tri	01 57 42.427	+27 38 50.46
RW Tri	02 22 41.45	+27 52 21.3
TW Tri	01 33 45.	+31 45 30.
TZ Tri	02 09 27.778	+30 04 10.44
VW Tri	02 00 59.	+32 36
WY Tri	02 16 35.	+32 02
RR TrA	16 13 52.	−62 36 48.
EK TrA	15 09 40.88	−64 54 31.0
HP TrA	15 21 49.326	−63 15 05.79
LS TrA	15 23 30.115	−62 50 47.61
LT TrA	15 59 23.458	−62 33 19.62
AQ Tuc	00 15 02.39	−72 11 36.7
CF Tuc	00 51 26.650	−74 55 23.30
W UMa	09 40 15.413	+56 10 56.29
SU UMa	08 08 05.401	+62 45 22.74
SW UMa	08 32 58.405	+53 39 04.80
TX UMa	10 42 24.406	+45 49 45.79
TY UMa	12 06 32.58	+56 18 34.7

GCVS	α_{1950}	δ_{1950}
UX UMa	13 34 42.10	+52 10 04.2
VV UMa	09 34 34.79	+56 14 38.5
XY UMa	09 06 18.413	+54 41 39.96
AA UMa	09 43 56.	+45 59 48.
AN UMa	11 01 35.61	+45 19 26.4
AW UMa	11 27 25.619	+30 14 35.79
BC UMa	11 49 38.2	+49 31 36.
BM UMa	11 08 30.	+46 42
BZ UMa	08 49 52.485	+58 00 04.10
CH UMa	10 03 08.870	+67 47 25.95
CI UMa	10 14 09.000	+72 10 44.70
CY UMa	10 54 02.	+49 57 12.
DF UMa	11 34 42.34	+47 44 23.8
DK UMa	09 30 05.838	+70 03 06.47
DL UMa	09 32 20.399	+69 51 40.75
DN UMa	11 52 29.996	+46 45 18.12
DV UMa	09 43 26.0	+45 00 38.
DW UMa	10 30 37.6	+59 02 22.
EG UMa	12 13 16.33	+52 47 48.4
EI UMa	08 34 48.5	+48 48 37.
EK UMa	10 48 33.6	+54 20 33.
EL UMa	10 52 19.0	+37 15 48.
ξ UMa	11 15 31.120	+31 48 37.87
W UMi	16 21 10.745	+86 19 22.67
RU UMi	13 37 38.72	+70 03 22.6
RW UMi	16 49 55.77	+77 07 16.2
RZ UMi	15 06 05.309	+86 55 25.53
SS UMi	15 51 18.0	+71 55 25.
ε UMi	16 51 00.905	+82 07 21.54
AA Vel	10 49 13.366	−56 08 41.97
AC Vel	10 44 17.265	−56 33 56.09
AS Vel	08 26 27.552	−38 48 19.21
BB Vel	08 35 11.61	−47 12 06.2
BP Vel	08 16 27.79	−45 14 01.5

GCVS	α_{1950}	δ_{1950}
BU Vel	08 38 20.08	−42 39 01.5
CU Vel	08 56 44.57	−41 36 09.8
CV Vel	08 59 03.648	−52 21 31.73
FX Vel	08 30 43.51	−37 48 46.2
GG Vel	09 10 58.303	−43 16 52.18
GP Vel	09 00 13.184	−40 21 25.29
HX Vel	08 40 39.102	−47 55 07.79
HY Vel	08 40 59.363	−52 56 01.48
II Vel	08 50 48.01	−49 02 42.8
IK Vel	09 03 41.863	−53 00 42.74
IP Vel	09 41 40.607	−50 59 54.52
IT Vel	08 16 26.576	−46 56 06.24
IX Vel	08 13 49.648	−49 04 01.50
KN Vel	09 45 53.733	−49 42 38.73
KO Vel	10 13 57.24	−47 43 12.1
KX Vel	08 48 51.625	−46 20 29.20
LL Vel	11 01 30.584	−51 04 59.71
γ^2 Vel	08 07 59.465	−47 11 18.31
o Vel	08 38 51.636	−52 44 37.11
TW Vir	11 42 47.73	−04 09 24.9
UY Vir	12 59 13.446	−19 30 19.45
AG Vir	11 58 29.742	+13 17 13.09
AH Vir	12 11 47.877	+12 05 54.90
AW Vir	13 25 00.	+03 18 00.
AX Vir	13 25 12.736	+04 07 58.81
AZ Vir	13 40 55.	+04 52 00.
BF Vir	13 45 18.592	−00 20 44.98
BH Vir	13 55 50.215	−01 25 04.50
CX Vir	14 06 43.	−15 20 54.
DL Vir	13 49 54.667	−18 27 46.33
DT Vir	12 58 17.75	+12 38 42.7
FO Vir	13 27 14.065	+01 21 16.65
GK Vir	14 13 03.6	+01 31 13.
GR Vir	14 42 41.679	−06 31 30.12
HS Vir	13 41 00.7	−07 59 03.
HT Vir	13 43 36.039	+05 21 56.68
HW Vir	12 41 44.61	−08 23 51.0
HY Vir	13 05 55.345	−02 24 46.32
α Vir	13 22 33.301	−10 54 03.36

GCVS	α_{1950}	δ_{1950}
W Vol	07 37 48.94	−69 25 39.5
Z Vul	19 19 35.300	+25 28 44.08
RS Vul	19 15 32.192	+22 20 59.99
TY Vul	20 39 35.	+25 24 36.
UY Vul	20 53 43.285	+26 29 18.20
UZ Vul	20 54 33.190	+23 23 01.55
VW Vul	20 55 34.01	+25 18 47.6
AT Vul	19 51 50.368	+23 25 58.09
BI Vul	21 20 37.	+26 49 06.
BU Vul	20 44 12.00	+28 04 40.8
DO Vul	19 49 58.	+19 26 54.
DR Vul	20 11 41.158	+26 35 53.27
ER Vul	21 00 16.464	+27 36 33.50
EV Vul	19 49 30.7	+23 45 30.
FY Vul	19 39 30.	+21 38 48.
PW Vul	19 24 03.442	+27 15 54.50
QQ Vul	20 03 30.7	+22 31 28.
QY Vul	19 44 14.46	+28 08 54.7

Gl/GJ	α_{1950}	δ_{1950}
Gl 4.1A	00 03 37.946	+58 09 29.61
Gl 8	00 06 29.735	+58 52 26.77
Gl 17.3	00 20 18.035	−12 29 14.89
Gl 23 A	00 32 40.390	−03 52 04.29
Gl 24 A	00 34 14.124	−49 24 20.25
Gl 29.1	00 40 04.69	+35 16 25.1
Gl 34 A	00 46 03.907	+57 33 02.76
Gl 34.1	00 46 20.792	+16 40 15.74
Gl 64	01 35 26.21	−05 14 41.5
Gl 78.1	01 50 13.440	+29 20 10.14
Gl 80	01 51 52.340	+20 33 52.09
Gl 103	02 32 28.419	−44 00 38.92
Gl 113.1	02 45 42.348	+30 54 36.28
Gl 141.1	03 23 33.019	+28 32 32.53
Gl 144	03 30 34.355	−09 37 34.76
Gl 150	03 40 51.035	−09 55 53.05
Gl 160.1A	04 04 13.992	+37 56 41.15
Gl 167.1	04 14 42.867	−51 36 42.99
Gl 171.2A	04 33 41.765	+27 02 01.03
Gl 174	04 38 22.034	+20 48 34.57
Gl 194 AB	05 12 59.466	+45 56 58.04
Gl 233	06 23 14.318	+18 47 20.98
Gl 278 A	07 31 24.673	+32 00 00.53
Gl 278 B	07 31 24.635	+31 59 57.61
Gl 278 C	07 31 26.235	+31 58 50.36
Gl 306	08 22 05.451	−03 35 16.72
Gl 310.1A	08 33 11.523	+06 47 45.07
Gl 337.1	09 10 24.611	+61 37 51.35
Gl 355.1	09 30 05.838	+70 03 06.47
Gl 356 A	09 32 39.994	+36 02 14.94
Gl 410	10 59 57.200	+22 14 13.72
Gl 423 B	11 15 31.120	+31 48 37.87
Gl 425 A	11 18 56.573	−20 10 41.13
Gl 459.1	12 13 16.33	+52 47 48.4
Gl 484	12 42 37.629	+39 33 00.75
Gl 490 A	12 55 19.20	+35 29 49.5
Gl 494	12 58 17.75	+12 38 42.7
Gl 525.1	13 42 50.314	−32 47 29.86
Gl 559.1	14 37 56.367	+64 30 23.09
Gl 566 A	14 49 04.800	+19 18 24.60
Gl 575 B	15 02 08.190	+47 50 53.10
Gl 586 A	15 25 26.995	−09 10 13.82
Gl 609.1	16 00 56.829	+58 41 53.69
Gl 615.2A	16 12 48.252	+33 59 02.62
Gl 624	16 23 03.880	−69 58 28.74
Gl 631	16 33 43.677	−02 13 10.02
Gl 654.1	17 02 43.918	+00 46 28.23
Gl 664	17 13 08.682	−26 28 33.11
Gl 681	17 32 36.697	+12 35 41.94
Gl 719	18 32 44.674	+51 40 59.90
Gl 755.1	19 19 23.	+14 34 54.
Gl 770	19 51 18.212	−24 04 00.88
Gl 803	20 42 03.756	−31 31 05.29
Gl 815 A	20 58 08.601	+39 52 39.58
Gl 820 A	21 04 39.935	+38 29 59.10
Gl 837	21 44 16.993	−16 21 18.42
Gl 848	22 04 40.836	+25 06 00.71
Gl 867 A	22 36 01.287	−20 52 49.35
Gl 879	22 53 37.402	−31 49 50.61
Gl 895.2	23 26 15.94	+04 58 34.6
Gl 909 A	23 49 57.039	+75 15 57.16
GJ 1124	09 19 17.443	+40 25 11.74
GJ 1255 AB	20 38 02.972	+75 24 57.96
GJ 2068	08 25 15.	+25 31
GJ 2099 A	13 09 47.153	−59 33 00.38

Gould	α_{1950}	δ_{1950}
12G Ant	09 30 06.988	−28 24 24.28
Aps		
27G Aqr	20 55 55.845	−14 40 39.39
101G Aqr	21 59 42.543	−17 12 21.87
104G Aqr	22 02 13.118	−01 08 55.93
121G Aqr	22 10 07.624	−04 58 04.69
187G Aqr	22 50 50.810	−11 52 58.44
3G Aql	18 43 53.644	−01 00 56.62
10G Aql	18 59 48.098	−10 47 42.35
17G Aql	19 02 45.622	+09 33 55.90
38G Aql	19 17 52.724	−05 30 38.73
56G Aql	19 28 39.676	−02 12 59.60
68G Aql	19 36 43.539	+05 16 56.69
84G Aql	19 47 51.889	+07 46 29.79
117G Aql	20 08 43.494	−00 58 16.06
4G Ara	16 37 35.138	−48 40 01.19
39G Ara	17 09 59.427	−56 49 49.71
77G Ara	17 46 24.124	−53 35 53.52
Boo		
Cae		

Gould	α_{1950}	δ_{1950}
6G Cnc	08 33 11.523	+06 47 45.07
11G Cnc	08 49 35.089	+08 15 18.27
13G CMa	06 16 04.179	−19 56 46.76
18G CMa	06 18 23.546	−30 02 23.86
119G CMa	07 04 19.804	−11 12 55.96
137G CMa	07 11 51.659	−30 59 48.41
150G CMa	07 16 35.390	−24 27 58.28
151G CMa	07 16 38.031	−24 51 42.75
155G CMa	07 17 12.341	−16 18 00.39
158G CMa	07 18 53.056	−26 52 08.01
18G CMi	07 24 26.357	+08 23 29.89
14G Cap B	20 18 12.200	−14 56 26.57
111G Cap	21 38 49.847	−14 16 17.57
114G Cap	21 40 25.842	−19 51 00.45
123G Cap	21 44 16.993	−16 21 18.42
99G Car	08 39 30.824	−59 34 55.29
117G Car	09 09 39.120	−58 45 41.26
163G Car	09 52 56.908	−58 11 01.77
191G Car	10 21 29.101	−66 38 53.18
220G Car	10 39 22.612	−59 24 54.64
223G Car	10 41 10.052	−64 07 55.36
227G Car A	10 42 27.048	−59 43 49.19
227G Car B	10 42 27.048	−59 43 49.19
237G Car	10 44 39.915	−63 59 58.06
95G Cen	12 06 18.122	−44 02 49.38
173G Cen	13 03 58.753	−49 38 19.89
183G Cen	13 09 09.247	−59 39 17.43
186G Cen	13 09 47.153	−59 33 00.38
207G Cen	13 19 20.755	−60 42 38.14

Gould

Gould	α_{1950}	δ_{1950}
265G Cen	13 42 50.314	−32 47 29.86
272G Cen	13 46 29.739	−41 26 21.52
284G Cen	13 50 19.415	−31 40 53.33
289G Cen	13 52 24.510	−47 02 34.87
325G Cen	14 10 15.197	−54 23 31.03
37G Cet	00 20 18.035	−12 29 14.89
54G Cet A	00 32 40.390	−03 52 04.29
194G Cet	01 56 40.618	−23 09 44.85
248G Cet	02 23 37.678	−15 33 54.52
9G Cha	08 44 58.108	−78 53 15.10
14G Cha	09 35 25.599	−80 43 01.70
42G Cir	15 12 53.078	−60 46 24.48
57G Col	05 51 17.886	−33 48 40.66
91G Col	06 20 17.110	−33 24 35.76
34G CrA	18 55 21.086	−37 10 27.98
45G CrA	19 06 26.482	−41 58 25.53
4G Crv	11 58 17.520	−19 22 50.49
43G Crv	12 38 40.251	−12 44 26.80
21G Crt	11 14 26.026	−06 51 41.86

Gould

Gould	α_{1950}	δ_{1950}
6G Cru	12 00 27.869	−63 02 04.11
7G Cru	12 01 43.859	−62 53 14.26
25G Cru	12 23 43.075	−62 50 42.31
26G Cru	12 23 48.064	−62 49 19.43
27G Cru	12 23 48.870	−62 49 21.48
49G Cru	12 50 37.653	−60 05 09.62
20G Del	20 47 21.142	+07 40 37.88
3G Dor	04 14 42.867	−51 36 42.99
28G Dor	05 32 43.056	−64 15 37.10
32G Dor	05 39 03.476	−69 07 35.21
4G Equ	20 56 34.570	+04 06 02.09
25G Equ	21 18 55.406	+10 07 10.24
73G Eri	03 13 24.143	−09 00 15.50
101G Eri	03 30 34.355	−09 37 34.76
103G Eri	03 31 34.657	−21 47 57.95
121G Eri	03 40 51.035	−09 55 53.05
161G Eri	03 57 47.488	−24 09 24.93
182G Eri	04 07 15.207	−08 01 27.35
187G Eri	04 09 24.399	−20 29 05.34
204G Eri	04 16 00.050	−33 55 09.54
210G Eri	04 18 17.198	−07 42 38.65
266G Eri	04 42 59.993	−03 20 41.33
288G Eri	05 04 17.196	−04 43 14.92

Gould

Gould	α_{1950}	δ_{1950}
38G For	02 36 23.832	−38 12 17.97
90G Gru	23 07 32.182	−45 31 04.35
4G Her	16 21 44.526	+07 03 44.55
14G Hor	02 39 06.229	−54 45 48.15
44G Hor	03 29 00.652	−47 32 42.06
15G Hya	08 22 05.451	−03 35 16.72
25G Hya A	08 25 57.681	−02 21 00.72
25G Hya B	08 25 57.689	−02 21 00.60
59G Hya C	08 44 07.508	+06 36 11.91
64G Hya	08 45 47.114	+06 01 24.82
70G Hya	08 49 06.951	−06 59 19.68
106G Hya	09 09 57.872	−06 54 13.73
194G Hya	10 02 41.299	−12 49 17.50
265G Hya	11 03 31.885	−27 01 02.10
Hyi		
61G Ind	21 54 59.023	−59 15 05.97

Gould	α_{1950}	δ_{1950}
16G Leo	10 32 24.801	+08 54 33.57
43G Lep	05 21 12.789	−13 58 22.14
38G Lib	14 58 17.808	−08 19 18.19
76G Lib	15 21 29.019	−10 08 37.91
87G Lib	15 30 05.440	−16 41 04.98
94G Lib	15 34 28.166	−26 06 57.22
98G Lib	15 35 34.729	−29 36 53.36
114G Lib	15 50 25.602	−20 01 08.70
13G Lup	14 27 00.328	−49 17 47.29
66G Lup	15 09 27.473	−44 18 46.87
79G Lup	15 15 39.095	−40 36 23.40
83G Lup	15 18 04.851	−40 28 04.92
91G Lup	15 19 16.541	−44 30 40.82
100G Lup	15 24 05.522	−36 35 36.61
113G Lup	15 31 47.980	−41 00 00.69
125G Lup	15 39 29.420	−34 33 05.08
132G Lup	15 47 46.468	−33 28 35.36
28G Men	05 38 39.383	−78 50 55.65
Mic		

Gould

Gould	α_{1950}	δ_{1950}
2G Mon	05 56 41.770	−09 33 36.62
5G Mon	06 03 05.306	−10 14 15.83
21G Mon	06 17 18.205	−07 48 01.79
24G Mon	06 20 31.535	−03 15 01.97
25G Mon A	06 21 07.050	+04 37 11.68
60G Mon	06 34 43.220	+06 10 44.47
73G Mon	06 43 48.773	+08 38 30.21
91G Mon	06 52 10.273	−01 41 31.75
159G Mon	07 58 40.698	−01 15 08.75
48G Mus	12 36 56.818	−66 14 12.09
56G Mus	13 04 52.075	−65 02 21.47
59G Mus	13 11 49.986	−67 37 48.79
57G Nor	16 23 30.524	−47 26 33.93
61G Nor	*16 32 51.149*	*−42 45 26.77*
52G Oct	20 58 44.041	−77 13 01.18
15G Oph	16 24 07.298	−18 20 40.08
18G Oph	16 25 05.689	−08 15 41.15
27G Oph	16 33 43.677	−02 13 10.02
48G Oph	16 46 36.157	−15 34 54.81
81G Oph	17 02 43.918	+00 46 28.23
110G Oph	17 13 59.357	+01 15 53.07
126G Oph	17 18 56.157	−24 57 05.20
141G Oph	17 23 58.550	−05 02 38.50
142G Oph	17 23 54.053	+07 38 17.03
196G Oph	18 02 05.802	+01 54 53.89
9G Ori	04 48 32.421	+05 31 16.34
13G Ori	04 51 38.661	+02 21 37.24
17G Ori	04 52 16.487	+00 23 15.42
37G Ori	05 06 34.444	+09 46 01.19
56G Ori	05 17 03.159	−01 27 44.10

Gould	α_{1950}	δ_{1950}
59G Ori	05 19 00.088	+08 22 50.64
60G Ori	05 18 58.611	−00 27 52.47
74G Ori	05 23 12.686	+00 28 38.36
77G Ori	05 24 12.930	+03 03 14.26
84G Ori	05 28 06.416	+05 54 41.79
88G Ori	05 29 27.017	−00 20 04.41
92G Ori	05 30 59.063	−01 11 23.03
92G Ori	05 30 59.063	−01 11 23.03
93G Ori	05 31 31.369	−01 04 07.23
104G Ori A	05 32 48.356	−05 25 07.95
104G Ori B	05 32 48.669	−05 25 00.57
105G Ori A	05 32 55.469	−05 26 50.89
108G Ori	05 32 59.126	−05 56 28.26
109G Ori	05 32 55.034	−04 52 10.86
111G Ori	05 33 05.918	−03 17 02.12
112G Ori	05 33 40.476	−01 13 56.30
114G Ori	05 34 35.124	+08 55 22.13
117G Ori	05 35 00.528	−05 58 02.16
126G Ori A	05 38 14.044	−01 58 03.05
127G Ori	05 38 18.310	−01 09 12.66
140G Ori	05 45 05.621	−10 32 58.15
158G Ori	05 55 48.526	+01 50 01.00
162G Ori A	05 59 37.854	+09 38 56.35
162G Ori B	05 59 37.852	+09 38 56.27
79G Pav	19 53 48.115	−68 53 48.54
99G Pav	20 21 42.289	−56 53 50.02
8G Peg	21 37 34.126	+08 57 26.46
61G Phe	00 34 14.124	−49 24 20.25
89G Phe	01 06 17.251	−55 30 45.72

Gould	α_{1950}	δ_{1950}
25G Pic	05 34 41.153	−47 20 36.96
48G Pic	06 09 19.403	−54 57 24.59
63G Pic	06 30 40.787	−61 50 32.16
56G Psc	23 56 44.494	+06 35 11.41
63G Psc	00 02 46.530	−05 59 13.96
70G Psc	00 12 24.138	+08 32 35.70
65G PsA	22 53 37.402	−31 49 50.61
84G Pup	07 16 51.450	−36 39 00.62
96G Pup	07 27 09.049	−31 21 06.77
103G Pup	07 29 53.564	−35 46 49.34
128G Pup	07 36 13.100	−25 15 00.39
150G Pup	07 39 30.268	−38 24 56.59
166G Pup B	07 43 10.625	−14 33 48.31
187G Pup	07 46 00.808	−46 29 00.76
214G Pup	07 50 52.396	−38 43 56.79
233G Pup	07 56 48.169	−49 06 30.34
312G Pup	08 24 28.064	−38 53 43.30
313G Pup	08 25 19.808	−20 40 40.27
Pyx		
Ret		

Gould	α_{1950}	δ_{1950}
4G Sgr	17 45 20.106	−26 57 32.15
27G Sgr	18 02 06.467	−24 24 10.84
41G Sgr	18 10 46.324	−21 04 25.46
47G Sgr	18 14 17.236	−34 07 35.38
52G Sgr	18 14 32.490	−18 28 58.27
96G Sgr	18 42 19.553	−21 03 14.40
155G Sgr	19 12 28.524	−25 20 40.36
176G Sgr	19 18 51.834	−16 03 01.82
201G Sgr	19 30 42.947	−40 08 37.91
204G Sgr	19 32 59.586	−24 49 48.90
240G Sgr	19 50 17.153	−14 43 57.84
242G Sgr	19 51 18.212	−24 04 00.88
256G Sgr	19 56 29.133	−35 24 47.51
4G Sco	15 50 54.404	−24 23 08.40
9G Sco	15 53 47.482	−29 04 10.92
10G Sco	15 54 44.832	−20 50 22.85
12G Sco	15 55 49.301	−25 58 18.14
13G Sco A	15 57 22.318	−22 28 51.37
18G Sco	16 02 31.507	−19 40 12.45
37G Sco	16 09 13.090	−27 47 53.94
38G Sco	16 09 05.107	−19 19 56.51
61G Sco	16 18 08.667	−25 28 28.14
98G Sco	16 48 28.679	−37 57 48.92
112G Sco	16 53 06.857	−40 44 43.53
151G Sco	17 26 47.627	−33 40 41.68
156G Sco	17 30 12.626	−37 04 09.63
157G Sco	17 31 26.314	−32 32 56.46
182G Sco	17 52 59.793	−32 28 06.35
34G Scl	23 52 41.682	−32 11 59.56
Sct		

Gould	α_{1950}	δ_{1950}
24G SerCp	15 43 30.273	−01 38 56.03
38G SerCp	16 03 12.539	+08 13 50.63
8G SerCd	17 34 43.274	−15 22 07.81
11G SerCd	17 38 36.137	−12 51 01.22
30G SerCd	18 15 17.602	−12 15 45.67
41G SerCd	18 24 38.902	+00 09 53.73
44G SerCd	18 25 32.158	+06 09 43.34
45G SerCd	18 27 04.776	−02 01 09.27
7G Sex	09 47 53.998	+04 34 42.92
74G Sex	10 47 47.457	−08 37 56.58
4G Tau	03 24 27.329	+09 33 35.17
10G Tau	03 34 13.130	+00 25 32.96
17G Tau A	03 43 00.821	+05 53 41.52
61G Tau	04 32 54.244	+10 03 35.07
16G Tel	18 28 03.240	−45 57 02.52
17G Tel	18 28 20.113	−45 47 37.72
31G TrA	16 23 03.880	−69 58 28.74
62G Tuc	00 40 20.698	−65 44 32.93

Gould	α_{1950}	δ_{1950}
8G Vel	08 07 56.860	−47 11 49.46
9G Vel	08 07 59.465	−47 11 18.31
15G Vel	08 12 02.251	−46 50 21.54
33G Vel	08 27 29.901	−47 45 40.37
54G Vel	08 38 32.028	−52 52 36.32
56G Vel	08 38 51.636	−52 44 37.11
60G Vel	08 40 39.102	−47 55 07.79
62G Vel	08 40 59.363	−52 56 01.48
77G Vel	08 48 31.719	−41 54 08.36
78G Vel	08 48 51.625	−46 20 29.20
88G Vel	08 54 48.708	−52 31 50.25
129G Vel	09 20 33.853	−54 47 47.30
153G Vel	09 41 40.607	−50 59 54.52
158G Vel	09 45 53.733	−49 42 38.73
203G Vel	10 35 11.747	−47 57 55.48
245G Vel	11 01 30.584	−51 04 59.71
144G Vir	13 22 33.301	−10 54 03.36
151G Vir	13 27 14.065	+01 21 16.65
177G Vir	13 41 17.921	−05 14 51.96
181G Vir	13 43 36.039	+05 21 56.68
195G Vir	13 49 54.667	−18 27 46.33
224G Vir	14 11 05.875	−00 36 36.88
237G Vir	14 16 23.969	−13 08 30.89
22G Vol	08 07 46.613	−68 28 12.53

C-5.

HD	α_{1950}	δ_{1950}
28	00 02 46.530	−05 59 13.96
108	00 03 26.837	+63 24 05.25
123 A	00 03 37.946	+58 09 29.61
358	00 05 47.841	+28 48 52.12
432	00 06 29.735	+58 52 26.77
886	00 10 39.447	+14 54 20.57
1061	00 12 24.138	+08 32 35.70
1337	00 15 03.362	+51 09 19.72
1372	00 15 02.39	−72 11 36.7
1383	00 15 34.860	+61 26 58.48
1486	00 16 36.071	+58 51 41.93
1826	00 20 12.269	+29 10 38.27
1835	00 20 18.035	−12 29 14.89
1976	00 21 33.308	+51 44 34.74
2019	00 22 01.773	+31 05 46.92
2320	00 24 26.984	−40 09 29.29
2421	00 25 31.854	+44 07 05.34
3196 A	00 32 40.390	−03 52 04.29
3264	00 33 30.247	+48 16 50.29
3369	00 34 12.186	+33 26 39.75
3405	00 34 14.124	−49 24 20.25
3950	00 39 48.850	+52 03 48.22
4058	00 40 41.378	+46 45 04.98
4089	00 40 20.698	−65 44 32.93
4161	00 42 18.429	+74 42 54.68
4180	00 41 55.654	+48 00 40.00
4382	00 44 23.261	+74 34 30.08
4502	00 44 40.968	+23 59 43.95
4614	00 46 03.907	+57 33 02.76
4676	00 46 20.792	+16 40 15.74
4727	00 47 02.830	+40 48 25.23
5303	00 51 26.650	−74 55 23.30
5408 A	00 53 45.153	+60 05 33.50
5638	00 55 51.685	+46 46 01.03
5679	00 57 44.960	+81 36 24.67
5980	00 57 45.98	−72 26 04.8
6118	01 00 04.351	+31 32 10.53
6491	01 03 10.366	−27 13 19.16
6882	01 06 17.251	−55 30 45.72
7215 A	01 10 06.406	+31 48 38.37

HD	α_{1950}	δ_{1950}
7280	01 10 17.798	−29 26 40.07
7318 B	01 11 01.311	+24 19 04.65
7331 A	01 11 34.092	+60 40 30.80
7345	01 11 08.335	+07 18 52.03
7700	01 14 18.536	+06 32 52.97
8152	01 18 26.843	+07 20 38.93
8207	01 19 23.103	+45 16 02.87
8358	01 20 16.664	+00 27 16.10
8374	01 20 48.441	+37 27 16.30
8435	01 20 20.879	−56 59 31.42
8634	01 22 51.423	+23 15 07.42
8690	01 23 29.960	+46 49 55.75
9234	01 28 56.492	+53 45 43.33
9277	01 28 59.864	+22 29 03.90
9528	01 30 29.024	−49 47 01.41
9974	01 35 37.792	+57 54 09.47
10308	01 38 30.650	+25 29 38.52
10516	01 40 30.757	+50 26 15.92
11241	01 48 41.291	+54 54 02.85
11291	01 48 57.679	+50 32 47.91
11443	01 50 13.440	+29 20 10.14
11606	01 52 15.745	+59 01 44.03
11636	01 51 52.340	+20 33 52.09
11905	01 54 53.749	+41 27 05.29
12180	01 56 40.618	−23 09 44.85
12211	01 57 42.427	+27 38 50.46
12244	01 58 29.305	+56 29 36.80
12323	01 59 07.466	+55 23 00.78
12534	02 00 49.974	+42 05 31.16
12869	02 03 45.702	+22 24 39.13
12881	02 06 41.399	+79 27 28.93
13018	02 05 00.932	+17 47 32.20
13078	02 05 59.297	+40 33 28.73
13161	02 06 33.579	+34 45 06.52
13480 A	02 09 27.778	+30 04 10.44
13480 B	02 09 27.868	+30 04 14.14
13716	02 12 07.482	+57 31 52.18
13758	02 12 32.399	+57 30 47.09
13970	02 14 16.084	+56 24 38.60
13974	02 13 59.587	+33 59 47.81

HD	α_{1950}	δ_{1950}
14384	02 17 45.610	+54 16 54.43
14633	02 19 46.515	+41 15 10.44
14688	02 19 47.680	+16 38 35.41
14817	02 21 54.217	+61 19 28.35
14871	02 22 25.963	+55 52 40.13
15138	02 24 29.671	+50 20 51.62
15144	02 23 37.678	−15 33 54.52
15558	02 28 54.018	+61 14 08.89
15814	02 30 09.520	+14 48 52.07
16157	02 32 28.419	−44 00 38.92
16219	02 34 12.057	+39 40 47.31
16246	02 34 07.128	+24 25 50.90
16506	02 37 34.612	+60 20 23.07
16523	02 37 32.967	+56 31 00.34
16589	02 36 23.832	−38 12 17.97
16769	02 40 29.543	+67 36 50.37
16907	02 41 44.344	+65 30 58.93
16920	02 39 06.229	−54 45 48.15
17034	02 42 19.639	+47 56 01.86
17084	02 41 25.470	−38 08 20.27
17138	02 44 22.790	+69 25 33.10
17387	02 44 34.929	−13 33 00.24
17433	02 45 42.348	+30 54 36.28
17543	02 46 29.840	+17 15 27.29
17581	02 47 59.551	+58 06 32.59
18134	02 50 42.701	−61 49 26.69
18778	03 03 48.046	+81 16 50.48
19356	03 04 54.356	+40 45 52.46
19644	03 08 36.873	+59 43 56.04
19820	03 10 07.368	+59 22 38.39
20210	03 12 53.372	+34 30 18.42
20320	03 13 24.143	−09 00 15.50
20365	03 15 03.309	+50 02 26.55
21102	03 21 50.132	−00 52 47.00
21155	03 23 07.509	+40 17 02.83
21242	03 23 33.019	+28 32 32.53
21278	03 24 29.041	+48 53 24.91
21279	03 24 24.530	+47 33 47.66
21364	03 24 27.329	+09 33 35.17
21620	03 27 54.488	+49 02 24.24

HD	α_{1950}	δ_{1950}
21629	03 27 47.529	+43 44 04.67
21912	03 30 16.731	+39 43 57.63
21981	03 29 00.652	−47 32 42.06
22049	03 30 34.355	−09 37 34.76
22124	03 31 53.836	+31 51 04.16
22203	03 31 34.657	−21 47 57.95
22403	03 34 10.194	+25 49 51.24
22468	03 34 13.130	+00 25 32.96
22805	03 37 46.777	+25 10 09.75
23180	03 41 10.603	+32 07 53.49
23249	03 40 51.035	−09 55 53.05
23302	03 41 54.055	+23 57 27.82
23386	03 42 42.7	+24 45 06.
23410	03 42 51.373	+22 59 32.97
23466	03 43 00.821	+05 53 41.52
23625	03 44 41.964	+33 26 48.35
23630	03 44 30.424	+23 57 07.57
23642	03 44 30.587	+24 08 07.14
23848	03 46 22.636	+32 56 23.13
24327	03 49 30.314	−10 40 39.05
24398	03 50 58.959	+31 44 12.55
24546	03 52 52.755	+50 33 09.32
24658	03 52 25.246	−15 04 49.57
24733	03 54 45.698	+53 50 46.90
24760	03 54 29.432	+39 52 02.54
24769	03 54 05.621	+23 01 55.17
24909	03 56 06.773	+48 00 36.22
24912	03 55 42.825	+35 38 56.50
25204	03 57 54.378	+12 21 02.13
25267	03 57 47.488	−24 09 24.93
25487	04 00 49.539	+27 59 22.76
25639	04 03 23.893	+62 11 59.14
25799	04 03 28.216	+32 15 04.95
25823	04 03 32.054	+27 27 59.58
25833	04 03 43.447	+33 18 46.44
25893	04 04 13.992	+37 56 41.15
25940	04 05 01.311	+47 34 51.78
26337	04 07 15.207	−08 01 27.35
26354	04 06 11.668	−52 42 00.44
26591	04 09 24.399	−20 29 05.34

HD

HD	α_{1950}	δ_{1950}
26609	04 09 46.525	−10 35 43.58
26913	04 12 45.952	+06 04 37.48
26961	04 14 28.414	+50 10 29.09
27290	04 14 42.867	−51 36 42.99
27295	04 16 28.992	+21 01 22.50
27376	04 16 00.050	−33 55 09.54
27483	04 18 03.740	+13 44 47.42
27563	04 18 17.198	−07 42 38.65
27628	04 19 14.250	+13 57 38.10
27691	04 19 53.799	+14 56 25.18
27749	04 20 32.670	+16 39 43.80
27935	04 22 04.193	+04 35 09.36
28204	04 27 40.895	+72 25 26.83
28217	04 24 42.955	+11 06 05.36
28319	04 25 48.214	+15 45 41.88
28475	04 26 57.746	+10 24 48.13
29140	04 32 54.244	+10 03 35.07
29365	04 35 18.604	+20 35 09.65
29376	04 35 12.600	+07 13 06.78
29697	04 38 22.034	+20 48 34.57
29763	04 39 14.403	+22 51 46.00
30211	04 42 59.993	−03 20 41.33
30453	04 46 04.700	+32 30 08.81
30614	04 49 03.825	+66 15 38.64
30738	04 47 56.057	+16 07 35.05
30836	04 48 32.421	+05 31 16.34
30861	04 47 32.024	−47 13 14.59
31237	04 51 38.661	+02 21 37.24
31278	04 53 16.202	+53 40 27.79
31331	04 52 16.487	+00 23 15.42
31679	04 55 49.751	+24 25 14.37
31993	04 57 30.816	+03 12 48.15
32419	05 01 32.952	+41 13 13.94
32630	05 03 00.214	+41 10 08.38
32964	05 04 17.196	−04 43 14.92
32990	05 05 03.646	+24 12 02.80
33088	05 06 14.762	+39 31 25.41
33254	05 06 34.444	+09 46 01.19
33357	05 08 10.174	+42 06 18.30
33853	05 11 47.306	+46 21 00.58

HD	α_{1950}	δ_{1950}
33959	05 12 08.799	+32 37 54.05
34029	05 12 59.466	+45 56 58.04
34333	05 14 58.535	+36 34 47.04
34335	05 14 33.482	+20 04 48.20
34364	05 15 01.293	+33 42 55.62
34748	05 17 03.159	−01 27 44.10
34759	05 18 15.839	+41 45 24.49
34762	05 17 50.783	+27 54 30.55
34790	05 18 01.655	+29 31 15.77
34989	05 19 00.088	+08 22 50.64
35007	05 18 58.611	−00 27 52.47
35079	05 19 27.985	−03 00 40.49
35337	05 21 12.789	−13 58 22.14
35411	05 21 57.674	−02 26 29.65
35575	05 23 04.494	−01 32 03.78
35588	05 23 12.686	+00 28 38.36
35652	05 24 32.790	+34 44 31.22
35715	05 24 12.930	+03 03 14.26
35762	05 24 30.136	+03 48 51.27
35777	05 24 28.143	−02 24 07.49
35921	05 26 21.969	+35 20 10.96
36063	05 23 07.39	−71 38 40.8
36156	05 23 52.12	−71 23 29.9
36267	05 28 06.416	+05 54 41.79
36294	05 28 46.48	+30 24 35.7
36402	05 26 10.14	−67 32 25.2
36485	05 29 26.996	−00 19 11.93
36486	05 29 27.017	−00 20 04.41
36521	05 26 47.66	−68 52 52.9
36646	05 30 35.612	−01 45 05.11
36695	05 30 59.063	−01 11 23.03
36695	05 30 59.063	−01 11 23.03
36779	05 31 31.369	−01 04 07.23
36819	05 32 23.746	+24 00 29.86
36954	05 32 39.920	−00 46 01.02
37017	05 32 53.307	−04 31 30.89
37018	05 32 55.034	−04 52 10.86
37020	05 32 48.356	−05 25 07.95
37021	05 32 48.669	−05 25 00.57
37041	05 32 55.469	−05 26 50.89

HD

HD	α_{1950}	δ_{1950}
37042	05 32 58.911	−05 26 52.21
37043	05 32 59.126	−05 56 28.26
37055	05 33 05.918	−03 17 02.12
37061	05 33 03.747	−05 17 54.89
37128	05 33 40.476	−01 13 56.30
37202	05 34 39.263	+21 06 50.00
37232	05 34 35.124	+08 55 22.13
37297	05 32 43.056	−64 15 37.10
37303	05 35 00.528	−05 58 02.16
37367	05 36 07.380	+29 11 17.37
37434	05 34 41.153	−47 20 36.96
37438	05 36 38.143	+25 52 15.31
37479	05 36 16.398	−02 37 17.58
37657	05 38 43.987	+43 02 09.84
37737	05 39 08.717	+36 10 36.86
37742	05 38 14.044	−01 58 03.05
37756	05 38 18.310	−01 09 12.66
37909	05 31 45.039	−81 37 23.92
38268	05 39 03.476	−69 07 35.21
38602	05 38 39.383	−78 50 55.65
38735	05 45 05.621	−10 32 58.15
39220	05 50 28.973	+59 52 47.21
39357	05 50 10.984	+27 36 08.48
39698	05 51 58.976	+19 44 29.91
39764	05 51 17.886	−33 48 40.66
39917	05 51 57.204	−43 34 01.76
40005	05 53 57.266	+16 20 58.38
40183	05 55 51.579	+44 56 40.69
40372	05 55 48.526	+01 50 01.00
40536	05 56 41.770	−09 33 36.62
40932 A	05 59 37.854	+09 38 56.35
40932 B	05 59 37.852	+09 38 56.27
41040 A	06 00 29.692	+19 41 35.51
41116	06 01 04.774	+23 16 04.51
41357	06 03 08.245	+38 29 20.96
41547	06 03 05.306	−10 14 15.83
41724/5	06 05 08.698	+35 08 56.35
41753	06 04 42.949	+14 46 34.32
42545	06 09 10.198	+16 08 37.04
42560	06 09 05.753	+14 13 18.68

HD

HD	α_{1950}	δ_{1950}
42933	06 09 19.403	−54 57 24.59
42954	06 11 33.303	+17 55 20.05
43905	06 17 42.423	+53 28 28.35
43955	06 16 04.179	−19 56 46.76
44112	06 17 18.205	−07 48 01.79
44402	06 18 23.546	−30 02 23.86
44691	06 22 12.642	+56 18 51.33
44701	06 20 31.535	−03 15 01.97
44762	06 20 17.110	−33 24 35.76
44769	06 21 07.050	+04 37 11.68
44863	06 19 59.828	−54 31 28.63
44982	06 30 36.832	+82 18 46.74
45088	06 23 14.318	+18 47 20.98
45995	06 28 22.604	+11 17 15.24
46052	06 29 11.433	+32 29 32.59
46792	06 30 40.787	−61 50 32.16
47088	06 34 29.664	+06 06 08.90
47105	06 34 49.396	+16 26 37.40
47129	06 34 43.220	+06 10 44.47
47415	06 36 27.466	+24 38 41.02
47732	06 37 43.434	+09 51 54.72
47755	06 37 53.245	+09 50 06.93
48049	06 41 58.360	+69 40 59.44
48914	06 43 13.331	+02 33 11.10
48977	06 43 48.773	+08 38 30.21
49798	06 46 34.846	−44 15 33.53
50820	06 52 10.273	−01 41 31.75
50896	06 52 08.092	−23 51 51.60
51076	06 53 20.07	−03 58 38.9
52533	06 58 56.773	−03 02 43.49
52942	07 00 21.896	−11 22 45.98
53756	07 03 22.907	−12 44 04.08
53974	07 04 19.804	−11 12 55.96
55173	07 08 34.76	−30 34 46.1
55958	07 11 51.659	−30 59 48.41
56310	07 13 40.976	−16 08 46.98
57060	07 16 35.390	−24 27 58.28
57061	07 16 38.031	−24 51 42.75
57103	07 18 47.691	+55 22 40.73
57167	07 17 12.341	−16 18 00.39

HD	α_{1950}	δ_{1950}
57219	07 16 51.450	−36 39 00.62
57593	07 18 53.056	−26 52 08.01
58715	07 24 26.357	+08 23 29.89
58728	07 24 46.351	+21 32 56.88
59543	07 27 35.932	−13 53 00.91
59550	07 27 09.049	−31 21 06.77
60099	07 29 33.686	−37 53 42.19
60168	07 29 53.564	−35 46 49.34
60178	07 31 24.635	+31 59 57.61
60179	07 31 24.673	+32 00 00.53
60265	07 30 35.866	−20 41 02.30
61245	07 34 40.891	−44 50 40.50
61429	07 36 13.100	−25 15 00.39
61926	07 38 07.115	−38 25 54.68
62044	07 40 11.374	+29 00 22.23
62226	07 39 30.268	−38 24 56.59
62863	07 43 10.625	−14 33 48.31
62910	07 43 02.02	−31 47 11.5
63099	07 43 57.58	−34 12 25.9
63251	07 44 31.772	−37 46 25.62
63578	07 46 00.808	−46 29 00.76
64503	07 50 52.396	−38 43 56.79
64511	07 52 07.807	+22 08 04.61
65041	07 55 05.688	+43 38 23.87
65818	07 56 48.169	−49 06 30.34
65953	07 58 40.698	−01 15 08.75
66094/5	07 59 19.609	−08 27 13.65
66403	08 00 04.929	−35 09 47.95
67008	08 04 16.873	+41 56 47.10
67110	08 04 02.833	+02 04 27.19
67889	08 06 32.407	−41 52 58.70
68243	08 07 56.860	−47 11 49.46
68273	08 07 59.465	−47 11 18.31
68520	08 07 46.613	−68 28 12.53
68884	08 11 22.061	−23 48 03.97
69144	08 12 02.251	−46 50 21.54
69951	08 15 55.185	−41 33 05.63
70084	08 16 26.576	−46 56 06.24
70271	08 19 29.490	+45 37 04.05
70958	08 22 05.451	−03 35 16.72
71487	08 24 28.064	−38 53 43.30
71581	08 25 19.808	−20 40 40.27
71663 A	08 25 57.681	−02 21 00.72
71663 B	08 25 57.689	−02 21 00.60
71872	08 26 27.552	−38 48 19.21
71973	08 31 02.587	+74 53 49.46
72108	08 27 29.901	−47 45 40.37
72698	08 30 11.601	−59 03 25.26
72945	08 33 11.523	+06 47 45.07
74146	08 38 32.028	−52 52 36.32
74195	08 38 51.636	−52 44 37.11
74352	08 40 29.52	−32 09 41.6
74375	08 39 30.824	−59 34 55.29
74455	08 40 39.102	−47 55 07.79
74560	08 40 59.363	−52 56 01.48
74874 C	08 44 07.508	+06 36 11.91
75137	08 45 47.114	+06 01 24.82
75322	08 46 21.553	−25 58 39.08
75446	08 46 42.283	−42 12 52.63
75655	08 47 57.715	−41 33 22.66
75737	08 49 06.951	−06 59 19.68
75747	08 44 58.108	−78 53 15.10
75759	08 48 31.719	−41 54 08.36
75767	08 49 35.089	+08 15 18.27
75821	08 48 51.625	−46 20 29.20
75920	08 49 56.062	−27 17 41.72
76536	08 53 18.216	−47 24 03.05
76805	08 54 48.708	−52 31 50.25
77137	08 57 34.039	−27 37 10.53
77464	08 59 03.648	−52 21 31.73
77581	09 00 13.184	−40 21 25.29
78209	09 05 21.304	+51 48 28.45
78291	09 03 41.863	−53 00 42.74
78316	09 05 02.414	+10 52 14.13
78418	09 05 51.076	+26 50 13.96
79028	09 10 24.611	+61 37 51.35
79193	09 09 57.872	−06 54 13.73
79351	09 09 39.120	−58 45 41.26
79459	09 10 58.303	−43 16 52.18
79763	09 14 10.453	+47 01 37.03

HD	α_{1950}	δ_{1950}
80715	09 19 17.443	+40 25 11.74
81188	09 20 33.853	−54 47 47.30
81769	09 23 58.629	−57 08 43.50
82210	09 30 05.838	+70 03 06.47
82610	09 30 06.988	−28 24 24.28
82620	09 32 20.399	+69 51 40.75
82635	09 31 09.969	+36 37 14.38
82780	09 32 15.317	+40 11 12.01
82885	09 32 39.994	+36 02 14.94
83475	09 34 57.419	−59 45 39.57
83808/9	09 38 29.008	+10 07 14.64
83950	09 40 15.413	+56 10 56.29
83979	09 35 25.599	−80 43 01.70
84184	09 40 51.573	+02 51 25.03
84207	09 41 19.491	+25 35 02.80
84400	09 41 40.607	−50 59 54.52
85037	09 45 53.733	−49 42 38.73
85040	09 47 02.359	+21 24 48.04
85091	09 47 08.650	+11 20 27.63
85217	09 47 53.998	+04 34 42.92
86118	09 52 56.908	−58 11 01.77
86146	09 54 37.760	+41 17 40.83
86161	09 53 14.399	−57 29 24.61
86360	09 55 32.100	+12 41 03.03
86441	09 55 05.716	−57 24 58.24
86590	09 57 13.305	+24 47 36.13
87059	09 58 57.707	−59 23 39.26
87079	10 00 13.485	+01 20 11.57
87504	10 02 41.299	−12 49 17.50
88512	10 10 33.128	+50 44 39.95
89234	10 14 11.11	−59 57 56.1
89714	10 17 46.531	−57 09 12.71
89758	10 19 21.469	+41 45 06.25
89822	10 20 33.038	+65 49 12.47
90242	10 22 12.430	−18 50 18.55
90264	10 21 29.101	−66 38 53.18
90657	10 24 41.42	−58 23 07.9
90707	10 25 07.31	−57 25 13.5
91636	10 32 24.801	+08 54 33.57
91816	10 33 33.052	−11 39 01.12
91948	10 35 04.695	+60 23 14.87
92088	10 34 45.157	−59 05 43.32
92109	10 35 40.955	+14 31 39.89
92139/40	10 35 11.747	−47 57 55.48
92168	10 36 16.459	+38 10 16.49
92174	10 35 21.841	−58 58 47.08
92740	10 39 22.612	−59 24 54.64
93004	10 41 02.63	−62 07 48.1
93028	10 41 20.257	−59 56 18.50
93030	10 41 10.052	−64 07 55.36
93033	10 42 24.406	+45 49 45.79
93075	10 42 52.674	+57 11 02.14
93128	10 42 00.906	−59 17 05.00
93130	10 42 04.458	−59 36 41.58
93161	10 42 12.426	−59 18 48.37
93205	10 42 37.396	−59 28 28.04
93206 A	10 42 27.048	−59 43 49.19
93206 B	10 42 27.048	−59 43 49.19
93403	10 43 46.729	−59 08 39.24
93468	10 44 17.265	−56 33 56.09
93486	10 42 26.855	−81 46 25.97
93549	10 44 39.915	−63 59 58.06
93576	10 44 56.97	−59 48 50.8
93903	10 47 47.457	−08 37 56.58
94305	10 49 10.26	−62 01 05.9
94334	10 51 06.527	+43 27 23.92
94546	10 51 43.77	−59 14 47.2
94878	10 53 58.015	−60 07 30.74
95638	11 00 17.684	+61 55 28.35
95650	10 59 57.200	+22 14 13.72
96008	11 01 30.584	−51 04 59.71
96314	11 03 31.885	−27 01 02.10
96548	11 04 18.018	−65 14 21.13
97152	11 07 56.867	−60 42 27.02
97484	11 09 56.419	−60 49 23.03
97528	11 10 45.689	−26 11 34.26
97950	11 12 57.80	−60 59 16.2
98088	11 14 26.026	−06 51 41.86
98230	11 15 31.120	+31 48 37.87
98353	11 16 24.722	+38 27 36.38

HD	α_{1950}	δ_{1950}
98712	11 18 56.573	−20 10 41.13
99218	11 22 09.703	−57 27 10.71
99769	11 25 46.872	−61 08 08.32
99946	11 27 25.619	+30 14 35.79
100018 A	11 28 07.900	+41 33 50.35
100213	11 28 56.052	−65 27 59.47
100600	11 32 06.389	+17 04 23.44
101084	11 35 11.924	−63 04 14.28
101799	11 40 18.375	−35 32 17.06
101837	11 40 26.17	−62 09 26.2
102077	11 42 11.027	−49 08 21.42
102552	11 45 30.48	−60 17 16.0
102567	11 45 33.632	−61 55 43.90
102660	11 46 39.843	+16 31 18.60
102893	11 48 04.320	−60 30 56.21
103146	11 49 59.812	−61 14 45.12
103483	11 52 29.996	+46 45 18.12
103578	11 53 06.284	+15 55 30.08
104337	11 58 17.520	−19 22 50.49
104350	11 58 29.742	+13 17 13.09
104631	12 00 21.696	−61 53 48.61
104671	12 00 27.869	−63 02 04.11
104841	12 01 43.859	−62 53 14.26
104994	12 02 42.8	−61 46 26.
105055	12 03 09.310	−63 13 32.00
105056	12 03 12.748	−69 17 41.03
105287 A	12 04 38.357	+69 21 14.88
105509	12 06 18.122	−44 02 49.38
106112	12 09 52.843	+77 53 38.20
106400	12 11 47.877	+12 05 54.90
106677	12 13 21.404	+72 49 45.35
106871	12 14 55.850	−57 53 12.68
107325	12 17 48.976	+26 53 54.44
107468	12 18 33.925	+25 59 51.52
107793	12 20 37.805	+26 07 42.83
108102	12 22 31.887	+25 50 15.38
108248	12 23 48.064	−62 49 19.43
108249	12 23 48.870	−62 49 21.48
108250	12 23 43.075	−62 50 42.31
108722	12 26 57.037	+24 23 06.37
108736	12 27 00.892	+29 47 20.00
108907 B	12 27 55.874	+69 28 40.81
109387	12 31 21.550	+70 03 48.96
109510	12 32 35.859	+18 39 07.47
109796	12 35 03.324	−19 18 10.62
110020	12 36 56.818	−66 14 12.09
110139	12 37 37.339	−18 31 32.40
110317	12 38 40.251	−12 44 26.80
110326	12 38 40.927	+30 42 39.76
110533	12 38 26.304	+83 55 05.57
110897	12 42 37.629	+39 33 00.75
111934	12 50 37.653	−60 05 09.62
112014	12 48 38.683	+83 41 22.40
112486	12 54 06.309	+54 22 10.96
112669	12 56 03.953	−36 42 19.24
113016	12 58 45.99	−64 21 28.1
113158	12 59 13.446	−19 30 19.45
113791	13 03 58.753	−49 38 19.89
113904	13 04 52.075	−65 02 21.47
114125	13 05 55.345	−02 24 46.32
114529 A	13 09 09.247	−59 39 17.43
114630	13 09 47.153	−59 33 00.38
114911	13 11 49.986	−67 37 48.79
115937	13 18 22.400	−60 15 32.94
116072	13 19 20.755	−60 42 38.14
116507	13 22 06.824	−59 31 16.74
116656	13 21 54.916	+55 11 09.46
116658	13 22 33.301	−10 54 03.36
116795	13 24 04.276	−61 36 52.54
117362	13 27 14.065	+01 21 16.65
117470	13 28 31.522	−51 30 52.20
117555	13 28 24.772	+24 29 25.23
117688	13 30 07.1	−62 03 36.
117777	13 29 43.743	+28 50 29.55
118216	13 32 33.917	+37 26 16.62
118695	13 36 22.63	−44 50 41.2
119537	13 41 17.921	−05 14 51.96
119756	13 42 50.314	−32 47 29.86
119931 B	13 43 36.039	+05 21 56.68
120005	13 43 58.759	+31 08 52.49

HD	α_{1950}	δ_{1950}
120064	13 44 23.997	+25 57 08.51
120166	13 45 18.592	−00 20 44.98
120307	13 46 29.739	−41 26 21.52
120734	13 48 59.555	−36 22 33.15
120738	13 49 24.087	−55 17 40.37
120901/2	13 49 54.667	−18 27 46.33
120955	13 50 19.415	−31 40 53.33
121263	13 52 24.510	−47 02 34.87
121648	13 53 51.820	+26 09 46.07
121909	13 55 50.215	−01 25 04.50
123299	14 03 01.963	+64 36 51.57
123660	14 06 43.	−15 20 54.
123732	14 07 28.904	−47 31 59.91
123999	14 08 07.066	+25 19 39.84
124195	14 10 15.197	−54 23 31.03
124425	14 11 05.875	−00 36 36.88
124689	14 13 24.877	−57 37 22.09
125337	14 16 23.969	−13 08 30.89
125351	14 15 52.952	+35 44 21.87
126983	14 27 00.328	−49 17 47.29
128141	14 32 36.509	+09 19 58.50
128661	14 35 05.785	+36 08 45.77
129333	14 37 56.367	+64 30 23.09
129903	14 42 41.679	−06 31 30.12
131041 B	14 47 59.571	+48 55 35.48
131156 A	14 49 04.800	+19 18 24.60
131861	14 52 37.580	+45 30 00.71
132316	14 56 35.57	−42 47 02.9
132742	14 58 17.808	−08 19 18.19
133640 B	15 02 08.190	+47 50 53.10
134518	15 08 17.021	−36 03 38.08
134646	15 06 52.873	+63 18 26.92
134687	15 09 27.473	−44 18 46.87
135240	15 12 53.078	−60 46 24.48
135421	15 10 50.660	+62 02 32.88
135681	15 14 03.148	−12 51 21.50
135876	15 15 39.095	−40 36 23.40
136175	15 16 08.916	+31 49 43.37
136298	15 18 04.851	−40 28 04.92
136403	15 17 28.967	+32 41 42.37
136504	15 19 16.541	−44 30 40.82
136828	15 21 49.326	−63 15 05.79
137052	15 21 29.019	−10 08 37.91
137164	15 23 30.115	−62 50 47.61
137432	15 24 05.522	−36 35 36.61
137763	15 25 26.995	−09 10 13.82
138485	15 30 05.440	−16 41 04.98
138690	15 31 47.980	−41 00 00.69
139006	15 32 34.145	+26 52 54.75
139084	15 34 58.574	−57 32 36.68
139160	15 34 28.166	−26 06 57.22
139319	15 33 07.055	+64 04 22.39
139365	15 35 34.729	−29 36 53.36
139815	15 37 12.527	+29 47 00.77
139892	15 37 29.590	+36 47 49.58
140008	15 39 29.420	−34 33 05.08
140873	15 43 30.273	−01 38 56.03
141458	15 46 29.487	+12 52 32.56
141556	15 47 46.468	−33 28 35.36
141714	15 47 29.713	+26 13 13.16
142096	15 50 25.602	−20 01 08.70
142165	15 50 54.404	−24 23 08.40
142315	15 51 44.263	−22 37 10.25
142669	15 53 47.482	−29 04 10.92
142883	15 54 44.832	−20 50 22.85
143018	15 55 49.301	−25 58 18.14
143275 A	15 57 22.318	−22 28 51.37
143414	15 59 23.458	−62 33 19.62
143807	15 59 26.291	+29 59 23.49
143882	16 01 22.456	−46 09 27.41
144217	16 02 31.507	−19 40 12.45
144284	16 00 56.829	+58 41 53.69
144359	16 02 19.537	+34 18 51.32
144426	16 03 12.539	+08 13 50.63
144515a	16 03 32.437	+10 49 11.39
145482	16 09 13.090	−27 47 53.94
145502	16 09 05.107	−19 19 56.51
145519	16 09 11.761	−18 56 02.93
146241	16 13 35.68	−44 51 55.6
146361	16 12 48.252	+33 59 02.62

HD	α_{1950}	δ_{1950}	HD	α_{1950}	δ_{1950}
147165	16 18 08.667	−25 28 28.14	153751	16 51 00.905	+82 07 21.54
147547	16 19 42.738	+19 16 09.32	153808	16 58 22.471	+30 59 55.92
147584	16 23 03.880	−69 58 28.74	153847	16 58 58.842	+21 34 11.44
147683	16 21 27.670	−34 46 45.74	153919	17 00 32.697	−37 46 28.76
147869	16 21 44.526	+07 03 44.55	154339	17 03 19.261	−46 56 13.25
147971	16 23 30.524	−47 26 33.93	154417	17 02 43.918	+00 46 28.23
148184	16 24 07.298	−18 20 40.08	155099	17 08 38.891	−58 32 11.20
148367	16 25 05.689	−08 15 41.15	155341	17 09 59.427	−56 49 49.71
148856	16 28 04.105	+21 35 50.16	155555	17 12 18.174	−66 53 40.35
149404	16 32 51.149	−42 45 26.77	155937	17 11 43.180	+16 24 27.89
149420	16 31 32.105	+30 36 09.91	156026	17 13 08.682	−26 28 33.11
149573	16 34 56.592	−60 51 46.87	156247	17 13 59.357	+01 15 53.07
149632	16 33 11.685	+17 09 32.66	156545	17 18 14.145	−67 52 52.54
149661	16 33 43.677	−02 13 10.02	156633	17 15 28.612	+33 09 10.07
149730	16 35 34.799	−56 53 45.99	157056	17 18 56.157	−24 57 05.20
149779	16 35 19.607	−44 03 32.38	157482	17 20 05.060	+40 01 22.05
149834	16 35 45.457	−48 45 09.63	157950	17 23 58.550	−05 02 38.50
149881	16 34 40.598	+14 34 30.70	157978	17 23 54.053	+07 38 17.03
150136	16 37 35.138	−48 40 01.19	158013	17 22 30.540	+57 03 22.66
150265	16 21 10.745	+86 19 22.67	158148	17 24 39.539	+20 07 19.95
150484	16 38 47.763	+00 36 08.38	158155	17 25 45.613	−32 57 54.91
150682	16 39 34.863	+27 00 42.82	158261	17 24 58.263	+34 44 11.51
151564	16 46 31.310	−41 32 08.29	158320	17 26 47.627	−33 40 41.68
151676	16 46 36.157	−15 34 54.81	158926	17 30 12.626	−37 04 09.63
151697	16 47 58.531	−57 10 41.04	159082	17 29 55.112	+11 57 53.52
151890	16 48 28.679	−37 57 48.92	159176	17 31 26.314	−32 32 56.46
151910	16 48 46.79	−40 42 49.7	159441	17 33 50.722	−56 47 28.93
151932	16 48 48.358	−41 46 16.53	159561 B	17 32 36.697	+12 35 41.94
152218	16 50 29.301	−41 38 00.94	159876	17 34 43.274	−15 22 07.81
152219	16 50 24.570	−41 47 59.48	160613	17 38 36.137	−12 51 01.22
152235	16 50 27.600	−41 54 47.89	160762	17 38 03.064	+46 01 55.28
152248	16 50 39.035	−41 44 39.16	160861	17 36 56.075	+68 24 36.07
152270	16 50 48.747	−41 44 20.88	160922	17 37 14.348	+68 46 52.48
152333	16 51 05.662	−41 20 33.89	161160	17 43 00.106	−56 04 52.87
152590	16 52 37.153	−40 16 13.24	161321	17 42 00.614	+14 25 48.97
152667	16 53 06.857	−40 44 43.53	161562	17 44 33.75	−37 37 23.5
152830	16 52 57.654	+13 41 57.63	161572	17 43 29.945	+05 42 47.12
152901	16 54 28.533	−37 55 12.01	161603	17 43 43.758	+05 40 35.84
153345	16 55 08.726	+52 46 31.80	161698	17 44 19.434	+05 34 57.41
153720	16 54 27.262	+75 28 20.36	161733	17 44 35.061	+05 42 33.23

HD	α_{1950}	δ_{1950}	HD	α_{1950}	δ_{1950}
161756	17 45 20.106	−26 57 32.15	169981	18 24 02.968	+29 47 56.13
161783	17 46 24.124	−53 35 53.52	169985	18 24 38.902	+00 09 53.73
162028	17 46 16.265	+05 42 59.48	170000	18 21 28.502	+71 18 42.09
162132	17 45 47.382	+47 37 42.95	170097	18 25 31.381	−16 44 02.08
162515	17 49 35.252	−35 00 29.22	170200	18 25 32.158	+06 09 43.34
162588	17 50 02.726	−35 00 23.38	170465	18 28 03.240	−45 57 02.52
162630	17 50 09.20	−34 40 54.6	170470	18 26 52.942	+10 51 28.93
162656	17 50 16.89	−34 43 36.3	170474	18 27 04.776	−02 01 09.27
162679	17 50 24.00	−34 47 04.8	170523	18 28 20.113	−45 47 37.72
162724	17 50 34.637	−34 44 35.62	170757	18 28 20.265	+12 34 31.12
162780	17 50 54.378	−34 43 06.20	171577	18 34 04.330	−42 59 55.58
163181	17 52 59.793	−32 28 06.35	173198	18 41 37.182	−01 36 21.90
163611	17 54 24.291	+04 59 30.82	173282	18 42 19.553	−21 03 14.40
163708	17 55 49.486	−36 56 08.06	173524	18 41 39.774	+55 29 17.40
163930	17 55 51.349	+15 08 31.12	173648	18 43 02.931	+37 33 06.40
164270	17 58 26.412	−32 42 54.63	173654	18 43 53.644	−01 00 56.62
164852	18 00 14.676	+20 49 55.39	173787	18 44 54.357	−20 19 49.29
164898	17 59 41.017	+45 21 00.49	173886	18 45 34.167	−19 44 31.89
165052	18 02 06.467	−24 24 10.84	174107	18 46 21.470	+00 31 36.21
165174	18 02 05.802	+01 54 53.89	174237	18 45 35.976	+52 55 56.41
165590 A	18 03 42.272	+21 26 26.17	174343/4	18 46 12.064	+49 22 32.22
165590 AB	18 03 42.272	+21 26 26.17	174369	18 47 11.007	+24 59 18.60
165814	18 05 48.436	−25 28 55.10	174429	18 49 13.745	−50 14 26.92
165921	18 06 14.180	−23 59 51.90	174638/9	18 48 13.936	+33 18 12.51
166181	18 06 19.888	+29 40 57.54	174664	18 48 15.823	+33 17 33.39
166231	18 06 58.344	+09 08 27.59	174714	18 48 45.961	+24 39 36.06
166734	18 09 38.201	−10 44 41.64	174853	18 49 44.326	+13 54 15.54
166865	18 03 47.520	+79 59 48.27	174933	18 50 08.196	+21 21 48.31
166937	18 10 46.324	−21 04 25.46	175227	18 51 21.765	+24 12 54.00
167231	18 12 28.406	−35 39 16.25	175286	18 47 59.715	+75 22 33.84
167647	18 14 17.236	−34 07 35.38	175426	18 51 58.664	+36 54 29.44
167771	18 14 32.490	−18 28 58.27	175514	18 53 00.002	+09 16 53.30
167777	18 15 11.385	−43 22 52.61	175544	18 53 13.166	+00 11 58.95
167971	18 15 17.602	−12 15 45.67	175742	18 53 47.211	+23 29 40.63
168092	18 13 48.337	+56 34 13.96	175813	18 55 21.086	−37 10 27.98
168206	18 16 19.810	−11 39 16.24	176318	18 56 19.140	+38 11 50.84
168913	18 19 01.374	+29 50 01.63	176819	18 59 13.272	+20 45 37.79
169454	18 22 24.821	−14 00 26.18	176853	18 59 48.098	−10 47 42.35
169515	18 22 42.706	−12 43 09.24	177230	19 01 20.36	−04 23 32.7
169753	18 23 48.968	−09 13 56.04	177284	19 01 34.079	−02 06 18.37

HD

HD	α_{1950}	δ_{1950}
177559	19 03 01.336	−19 33 31.11
177624	19 02 45.622	+09 33 55.90
177708	19 03 31.107	−11 43 35.61
177762	19 03 49.111	−17 10 56.30
177768	19 04 02.445	−30 14 19.32
178001	19 02 46.279	+57 22 52.44
178125	19 04 37.292	+10 59 34.00
178322	19 06 26.482	−41 58 25.53
178329	19 04 39.741	+41 20 07.47
178449	19 05 31.990	+32 25 18.48
178450	19 05 35.458	+30 10 23.75
178619	19 06 25.899	+16 46 18.21
178661	19 06 05.367	+38 50 52.85
179890	19 10 37.590	+46 14 17.65
179950	19 12 28.524	−25 20 40.36
180163	19 12 03.285	+39 03 32.22
180553 B	19 13 55.995	+27 21 59.40
180554	19 14 03.958	+21 18 03.00
180939	19 15 32.192	+22 20 59.99
181144	19 16 30.078	+16 23 45.50
181182	19 16 37.017	+19 31 04.26
181391	19 17 52.724	−05 30 38.73
181470	19 17 15.486	+37 21 07.30
181615/6	19 18 51.834	−16 03 01.82
181809	19 19 42.783	−20 44 16.77
181987	19 19 35.300	+25 28 44.08
182490	19 22 07.267	+16 50 20.28
183056	19 24 20.981	+36 12 59.47
183794	19 28 39.676	−02 12 59.60
184035	19 30 42.947	−40 08 37.91
184552	19 32 59.586	−24 49 48.90
185507	19 36 43.539	+05 16 56.69
185912	19 37 33.728	+54 51 21.44
185936	19 38 46.581	+13 41 53.48
186943	19 44 14.46	+28 08 54.7
187183	19 45 48.361	+09 11 01.76
187282	19 46 17.99	+18 04 31.0
187418	19 48 21.623	−46 59 23.70
187459	19 46 56.044	+33 18 40.04
187567	19 47 51.889	+07 46 29.79

HD

HD	α_{1950}	δ_{1950}
187811	19 48 54.847	+22 28 53.89
187879	19 48 54.286	+40 28 17.88
187949	19 50 17.153	−14 43 57.84
188088	19 51 18.212	−24 04 00.88
188164	19 53 48.115	−68 53 48.54
188209	19 50 28.606	+46 53 51.46
188728	19 53 52.132	+11 17 22.86
189103	19 56 29.133	−35 24 47.51
189348	19 56 11.328	+43 11 40.30
189371	19 55 47.054	+54 39 50.45
189687	19 58 05.074	+36 54 16.84
189783	19 59 03.538	+10 36 33.14
190786	20 03 29.484	+31 49 40.28
190918	20 04 04.633	+35 38 38.28
190967	20 04 16.624	+35 14 29.31
191201	20 05 30.742	+35 34 20.72
191473	20 06 54.984	+37 05 23.35
191515	20 07 35.981	+10 12 05.66
191567	20 07 20.809	+35 20 10.51
191692	20 08 43.494	−00 58 16.06
191747	20 08 28.223	+26 45 17.59
191765	20 08 21.611	+36 01 39.80
192163	20 10 17.128	+38 12 15.05
192276	20 10 31.573	+47 35 10.07
192641	20 12 39.405	+36 30 28.15
193077	20 15 08.535	+37 16 03.40
193495	20 18 12.200	−14 56 26.57
193516	20 17 16.236	+37 36 41.93
193536	20 17 13.390	+46 09 52.89
193576	20 17 42.595	+38 34 24.27
193611	20 17 48.291	+38 10 39.06
193793	20 18 46.706	+43 41 42.90
193857	20 19 27.930	+30 25 47.38
193924	20 21 42.289	−56 53 50.02
193928	20 19 38.906	+36 45 36.52
193964	20 18 46.789	+62 05 53.62
194089	20 17 16.981	+76 39 10.91
194495	20 22 58.190	+21 19 29.54
195907	20 31 03.680	+31 29 08.84
195986	20 31 07.830	+43 01 13.37

HD

HD	α_{1950}	δ_{1950}
196093/4	20 31 57.382	+35 04 43.09
196133	20 31 58.405	+45 00 11.99
196544	20 35 25.553	+11 12 07.03
196628	20 35 23.125	+35 15 39.14
197010	20 38 19.779	−00 46 31.92
197345	20 39 43.539	+45 06 03.12
197406	20 39 54.358	+52 24 29.00
197433	20 38 02.972	+75 24 57.96
197481	20 42 03.756	−31 31 05.29
198391	20 47 21.142	+07 40 37.88
198784	20 49 35.426	+37 48 03.70
198827	20 51 17.391	−45 55 16.81
198846	20 50 03.571	+34 28 07.77
199005	20 53 50.503	−70 36 57.94
199081	20 51 28.521	+44 11 49.78
199454	20 54 43.193	+04 53 13.36
199465	20 54 49.875	+05 37 15.97
199497	20 54 53.056	+19 27 18.84
199532	20 58 44.041	−77 13 01.18
199579	20 54 48.837	+44 43 53.95
199603	20 55 55.845	−14 40 39.39
199766	20 56 34.570	+04 06 02.09
199892	20 56 39.840	+41 44 42.75
200120	20 58 07.395	+47 19 30.08
200310	20 59 26.089	+45 57 31.22
200391	21 00 16.464	+27 36 33.50
200776	21 02 08.677	+46 07 52.41
200905	21 03 06.589	+43 43 39.33
201032	21 03 05.034	+63 10 47.34
201091	21 04 39.935	+38 29 59.10
201359	21 05 39.353	+47 04 30.65
201416	21 05 58.573	+48 39 11.34
201433	21 06 31.463	+30 00 09.40
202000	21 09 32.920	+55 07 36.53
202850	21 15 26.951	+39 11 03.50
202908	21 16 09.806	+11 21 30.02
203025	21 15 56.356	+58 24 03.42
203064	21 16 35.137	+43 44 05.12
203338	21 17 52.610	+58 24 41.39
203345 B	21 18 55.406	+10 07 10.24

HD

HD	α_{1950}	δ_{1950}
203439	21 19 15.420	+32 23 58.16
203454	21 19 04.079	+40 08 05.80
203467	21 18 19.996	+64 39 34.13
203470	21 19 20.496	+35 31 22.15
203858	21 21 53.419	+25 05 48.62
204038	21 22 54.511	+33 28 17.54
204215	21 24 17.421	+13 28 14.79
204403	21 25 18.865	+36 53 54.87
205021	21 28 01.326	+70 20 27.85
205372	21 30 21.043	+70 36 07.09
205539	21 33 05.963	+27 58 27.11
206155	21 37 34.126	+08 57 26.46
206267	21 37 24.390	+57 15 44.56
206301	21 38 49.847	−14 16 17.57
206546	21 40 25.842	−19 51 00.45
206644	21 40 22.030	+40 50 52.85
206672	21 40 18.925	+50 57 39.10
206697	21 40 44.402	+43 21 23.31
206874	21 42 05.932	+28 33 07.71
206901 B	21 42 22.714	+25 24 51.41
207098	21 44 16.993	−16 21 18.42
207330	21 44 56.560	+49 04 39.35
207650	21 47 37.796	+29 56 26.28
207697	21 48 46.938	−42 36 28.98
207757	21 48 36.187	+12 23 27.65
207826	21 47 58.623	+66 33 33.04
208057	21 50 47.084	+25 41 20.87
208095	21 50 19.323	+55 33 40.38
208392	21 52 21.867	+62 22 39.81
208496	21 54 59.023	−59 15 05.97
208947	21 55 54.364	+65 55 02.03
209147	21 58 03.584	+44 18 41.90
209278	21 59 42.543	−17 12 21.87
209481	22 00 23.540	+57 45 30.82
209625	22 02 13.118	−01 08 55.93
209943	22 00 13.572	+82 37 51.47
209961	22 03 53.289	+47 59 15.34
210027	22 04 40.836	+25 06 00.71
210334	22 06 39.437	+45 29 45.72
210737	22 10 01.260	−21 08 13.60

HD

HD	α_{1950}	δ_{1950}
210763	22 10 07.624	-04 58 04.69
210892	22 10 54.207	+08 10 38.36
211433	22 14 18.976	+22 38 47.51
211708	22 16 40.	-17 08 36.
211853 A	22 16 54.536	+55 52 29.89
211853 B	22 16 54.536	+55 52 29.89
211965	22 18 24.567	-07 12 59.69
212120	22 18 57.330	+46 17 03.55
213307	22 27 17.496	+58 08 51.88
213389	22 28 02.776	+49 06 00.43
213534	22 29 15.036	+29 17 08.97
213863	22 31 59.213	-20 07 05.54
214239	22 33 46.50	+52 27 26.1
214240	22 33 48.436	+49 48 41.23
214419	22 34 56.770	+56 38 45.88
214479	22 36 01.287	-20 52 49.35
214652	22 36 48.620	+37 06 53.25
215661	22 43 20.184	+67 51 55.48
215835	22 44 54.272	+57 49 13.60
216014	22 46 03.889	+64 47 52.45
216200	22 48 06.137	+41 41 17.91
216489	22 50 34.454	+16 34 31.28
216494	22 50 50.810	-11 52 58.44
216598	22 51 22.571	+37 40 18.88
216629	22 51 18.386	+61 52 46.53
216711	22 51 57.212	+62 19 49.22
216803	22 53 37.402	-31 49 50.61
216916	22 54 06.327	+41 20 11.95
217061	22 54 44.244	+62 21 26.84
217224	22 55 59.145	+68 08 22.09
217312	22 56 41.180	+62 48 32.58
217344	22 57 42.167	-34 00 41.25
217463	22 57 43.186	+62 30 32.18
217676	22 59 36.882	+42 03 25.50
217796	23 00 04.241	+62 14 34.90
217919	23 01 01.330	+63 25 43.62
218066	23 02 01.066	+63 07 37.84
218154	23 03 02.596	+24 22 58.66
218393	23 04 51.062	+49 55 18.26
218407	23 05 00.316	+45 47 51.23
218440	23 05 03.149	+59 27 24.27
218670	23 07 32.182	-45 31 04.35
218738	23 07 39.187	+47 41 13.25
219113	23 10 50.577	+02 24 09.70
219634	23 14 17.395	+61 41 23.90
219815	23 16 00.611	+41 30 01.40
220057	23 17 48.400	+60 52 33.72
220140	23 17 50.188	+78 43 43.62
220460	23 21 19.723	+32 15 22.09
221253	23 27 42.766	+58 16 23.18
221264 A	23 27 57.591	+30 33 22.27
222107	23 35 06.520	+46 11 13.83
222133	23 35 25.105	+18 07 24.38
222317	23 36 59.446	+27 57 58.55
223778	23 49 57.039	+75 15 57.16
224085	23 52 29.081	+28 21 17.88
224113	23 52 41.682	-32 11 59.56
224151	23 53 02.700	+57 08 02.20
224355	23 54 36.576	+55 25 39.25
224559	23 56 13.367	+46 08 05.56
224617	23 56 44.494	+06 35 11.41

HDE

HDE	α_{1950}	δ_{1950}
226868	19 56 28.879	+35 03 54.77
227696	20 04 42.130	+35 35 44.25
228602	20 13 37.930	+35 59 01.34
228766	20 15 37.961	+37 09 09.05
228854	20 16 53.877	+36 10 59.54
228911	20 17 35.404	+40 43 47.71
229179	20 21 21.22	+39 00 02.3
234677	18 32 44.674	+51 40 59.90
235807	22 19 16.829	+55 17 55.60
237786	09 06 18.413	+54 41 39.96
238987	19 04 08.645	+57 02 50.63
239767	21 44 45.358	+56 41 07.57
239967	22 27 02.414	+56 20 49.40
240068	22 45 19.108	+58 13 30.10
245770	05 35 47.963	+26 17 18.02
248087	05 47 05.750	+26 56 58.03
249751	05 55 42.40	+27 04 29.9
250371	05 58 25.764	+23 08 27.22
253102	06 09 03.	+23 31 06.
254699	06 15 22.778	+23 35 30.97
255930	06 19 17.7	+10 55 10.
256902	06 22 55.79	+28 01 43.4
259135	06 29 21.30	+04 54 54.1
260416	06 33 26.	+07 54 18.
269320	05 18 43.24	-68 16 33.7
269696	05 32 08.18	-69 55 06.7
269828	05 36 20.69	-69 13 35.0
269891	05 38 09.57	-69 06 44.3
269928	05 39 17.84	-69 07 37.3
283750	04 33 41.765	+27 02 01.03
284163	04 08 55.99	+23 30 32.8
284303	04 15 10.89	+23 09 49.7
285892	04 33 42.934	+18 39 15.79
286898	04 32 46.804	+11 59 55.97
288166	05 38 45.	+02 35 00.
292319	06 43 24.	-00 13 42.
301073	10 49 13.366	-56 08 41.97
303503	10 51 35.64	-59 11 18.7
305460	10 38 11.	-59 56 24.
305516	10 41 20.20	-59 35 20.3
305536	10 42 15.45	-59 47 34.6
305538	10 43 50.01	-59 49 24.3
305543	10 41 15.06	-59 46 26.5
306168	11 12 30.44	-60 23 13.1
306180	11 10 00.	-60 27 06.
307739	10 23 21.	-63 23 00.
308826	11 36 49.17	-63 08 37.5
308976	11 41 21.54	-61 27 56.7
310376	11 03 49.62	-68 21 44.8
310730	11 37 34.	-64 32 00.
311884	12 40 53.23	-62 48 49.4
316675	17 52 27.28	-28 17 31.3
317690	17 27 58.98	-31 20 30.8
317844	17 31 08.431	-32 28 17.54
318016	17 33 56.0	-33 26 08.
320102	17 33 34.99	-34 00 49.0
326329	16 50 42.242	-41 45 40.46
332329	20 27 11.48	+31 13 07.3
333491	20 03 35.37	+30 49 54.5
333645	20 07 05.122	+30 24 10.57
335198	20 44 12.00	+28 04 40.8
339770	20 11 41.158	+26 35 53.27
345076	19 49 30.7	+23 45 30.
345185	19 51 50.368	+23 25 58.09
350944	19 52 39.05	+18 06 04.8
353804	19 46 11.83	+15 29 44.8

He	α_{1950}	δ_{1950}
2-427	19 09 16.46	+16 46 36.0
3-12	06 35 09.799	−62 35 49.28
3-20	06 52 08.092	−23 51 51.60
3-67	07 43 02.02	−31 47 11.5
3-73	07 43 57.58	−34 12 25.9
3-127	08 07 59.465	−47 11 18.31
3-130	08 09 52.037	−35 12 04.35
3-174	08 30 43.51	−37 48 46.2
3-200	08 43 05.61	−45 47 58.2
3-226	08 53 18.216	−47 24 03.05
3-342	09 53 14.399	−57 29 24.61
3-422	10 24 41.42	−58 23 07.9
3-470	10 39 22.612	−59 24 54.64
3-507	10 49 10.26	−62 01 05.9
3-516	10 51 35.64	−59 11 18.7
3-517	10 51 43.77	−59 14 47.2
3-526	10 53 58.015	−60 07 30.74
3-576	11 04 18.018	−65 14 21.13
3-603	11 07 56.867	−60 42 27.02
3-715	11 45 33.632	−61 55 43.90
3-749	12 02 42.8	−61 46 26.
3-751	12 03 12.748	−69 17 41.03
3-813	12 40 53.23	−62 48 49.4
3-862	13 04 52.075	−65 02 21.47
3-912	13 30 07.1	−62 03 36.
3-1130	15 59 23.458	−62 33 19.62
3-1222	16 32 51.149	−42 45 26.77
3-1266	16 48 48.358	−41 46 16.53
3-1274	16 50 48.747	−41 44 20.88
3-1291	16 53 06.857	−40 44 43.53
3-1439	17 33 34.99	−34 00 49.0
3-1441	17 33 56.0	−33 26 08.
3-1522	17 52 59.793	−32 28 06.35
3-1555	17 58 26.412	−32 42 54.63
3-1667	18 16 19.810	−11 39 16.24
3-1694	18 22 42.706	−12 43 09.24

He	α_{1950}	δ_{1950}
3-1772	19 44 14.46	+28 08 54.7
3-1777	19 46 17.99	+18 04 31.0
3-1828	20 04 04.633	+35 38 38.28
3-1839	20 08 21.611	+36 01 39.80
3-1849	20 10 17.128	+38 12 15.05
3-1856	20 12 39.405	+36 30 28.15
3-1866	20 15 08.535	+37 16 03.40
3-1877	20 17 42.595	+38 34 24.27
3-1879	20 18 02.14	+20 56 38.6
3-1888	20 19 38.906	+36 45 36.52
3-1907	20 30 17.9	+40 38 16.
3-1908	20 30 34.848	+41 08 04.04

Hevelius	α_{1950}	δ_{1950}
2H And B	22 59 36.882	+42 03 25.50
7H And	23 35 06.520	+46 11 13.83
12H And	00 05 47.841	+28 48 52.12
17H And	00 25 31.854	+44 07 05.34
19H And	00 34 12.186	+33 26 39.75
25H And	00 44 40.968	+23 59 43.95
26H And	00 47 02.830	+40 48 25.23
35H And	01 19 23.103	+45 16 02.87
42H And	*01 40 30.757*	*+50 26 15.92*
43H And	*01 48 57.679*	*+50 32 47.91*
45H And B	02 00 49.974	+42 05 31.16
3H Ati	*19 17 52.724*	*−05 30 38.73*
13H Ati	*20 08 43.494*	*−00 58 16.06*
Aqr		
7H Aql	19 04 37.292	+10 59 34.00
12H Aql	19 36 43.539	+05 16 56.69
21H Aql	19 53 52.132	+11 17 22.86
4H Ari	01 51 52.340	+20 33 52.09
7H Ari	02 03 45.702	+22 24 39.13
20H Ari A	02 46 29.840	+17 15 27.29
10H Aur	05 03 00.214	+41 10 08.38
12H Aur	05 12 59.466	+45 56 58.04
26H Aur	*05 36 38.143*	*+25 52 15.31*
33H Aur	*05 50 10.984*	*+27 36 08.48*
35H Aur	05 55 51.579	+44 56 40.69

Hevelius	α_{1950}	δ_{1950}
8H Boo	14 08 07.066	+25 19 39.84
16H Boo	14 15 52.952	+35 44 21.87
52H Boo	*15 37 29.590*	*+36 47 49.58*
17H Cam	04 49 03.825	+66 15 38.64
20H Cam	04 53 16.202	+53 40 27.79
31H Cam	12 09 52.843	+77 53 38.20
32H Cam B	12 48 38.683	+83 41 22.40
27H Cnc	09 05 02.414	+10 52 14.13
17H CVn	13 32 33.917	+37 26 16.62
19H CVn	*13 44 23.997*	*+25 57 08.51*
1H CMa	06 18 23.546	−30 02 23.86
20H CMa	07 16 38.031	−24 51 42.75
2H CMi	07 24 26.357	+08 23 29.89
6H Cap B	20 18 12.200	−14 56 26.57
24H Cap	21 38 49.847	−14 16 17.57
27H Cap	21 44 16.993	−16 21 18.42
1H Cas	23 27 42.766	+58 16 23.18
3H Cas	00 06 29.735	+58 52 26.77
14H Cas	00 40 41.378	+46 45 04.98
15H Cas	00 41 55.654	+48 00 40.00
17H Cas	00 46 03.907	+57 33 02.76

Hevelius

Hevelius	α_{1950}	δ_{1950}
9H Cep	21 18 19.996	+64 39 34.13
11H Cep	21 28 01.326	+70 20 27.85
13H Cep	21 37 24.390	+57 15 44.56
42H Cep	*00 44 23.261*	*+74 34 30.08*
3H Cet	*18 00 14.676*	*+20 49 55.39*
5H Cet	*00 02 46.530*	*−05 59 13.96*
8H Com	12 26 57.037	+24 23 06.37
11H Com B	12 32 35.859	+18 39 07.47
3H CrB	15 32 34.145	+26 52 54.75
6H CrB	15 47 29.713	+26 13 13.16
8H CrB	15 59 26.291	+29 59 23.49
8H Crv B	12 38 40.251	−12 44 26.80
10H Crt	*11 58 17.520*	*−19 22 50.49*
12H Cyg	19 58 05.074	+36 54 16.84
23H Cyg	20 31 57.382	+35 04 43.09
24H Cyg	20 39 43.539	+45 06 03.12
30H Cyg	20 51 28.521	+44 11 49.78
32H Cyg	20 58 07.395	+47 19 30.08

Hevelius	α_{1950}	δ_{1950}
34H Cyg A	21 04 39.935	+38 29 59.10
35H Cyg	21 03 06.589	+43 43 39.33
40H Cyg	21 15 26.951	+39 11 03.50
41H Cyg	21 16 35.137	+43 44 05.12
44H Cyg	21 40 18.925	+50 57 39.10
45H Cyg	21 44 56.560	+49 04 39.35
46H Cyg	*21 47 37.796*	*+29 56 26.28*
4H Del	20 35 25.553	+11 12 07.03
4H Dra	*12 09 52.843*	*+77 53 38.20*
6H Dra	12 31 21.550	+70 03 48.96
8H Dra	14 03 01.963	+64 36 51.57
13H Dra	16 00 56.829	+58 41 53.69
25H Dra	17 37 14.348	+68 46 52.48
29H Dra	18 21 28.502	+71 18 42.09
32H Dra	18 41 39.774	+55 29 17.40
1H Equ	20 56 34.570	+04 06 02.09
7H Eri	03 13 24.143	−09 00 15.50
9H Eri	03 30 34.355	−09 37 34.76
10H Eri	03 31 34.657	−21 47 57.95
11H Eri	03 40 51.035	−09 55 53.05
17H Eri	03 57 47.488	−24 09 24.93
23H Eri	04 42 59.993	−03 20 41.33

Hevelius	α_{1950}	δ_{1950}
1H Gem B	06 01 04.774	+23 16 04.51
5H Gem	06 34 49.396	+16 26 37.40
23H Gem	07 24 46.351	+21 32 56.88
24H Gem A	07 31 24.673	+32 00 00.53
24H Gem B	07 31 24.635	+31 59 57.61
29H Gem	07 40 11.374	+29 00 22.23
7H Her A	*16 12 48.252*	*+33 59 02.62*
8H Her	16 19 42.738	+19 16 09.32
13H Her	16 28 04.105	+21 35 50.16
24H Her	16 58 22.471	+30 59 55.92
29H Her	17 15 28.612	+33 09 10.07
37H Her	17 38 03.064	+46 01 55.28
5H Hya	08 45 47.114	+06 01 24.82
20H Hya	10 02 41.299	−12 49 17.50
5H Lac	22 18 57.330	+46 17 03.55
8H Leo	09 38 29.008	+10 07 14.64
13H Leo	09 55 32.100	+12 41 03.03
49H Leo	11 53 06.284	+15 55 30.08
2H LMi	09 31 09.969	+36 37 14.38
4H LMi	09 54 37.760	+41 17 40.83

Hevelius	α_{1950}	δ_{1950}
Lep		
5H Lib	14 58 17.808	−08 19 18.19
10H Lib	15 21 29.019	−10 08 37.91
13H Lib	15 30 05.440	−16 41 04.98
9H Lyn	07 18 47.691	+55 22 40.73
5H Lyr A	18 43 02.931	+37 33 06.40
7H Lyr	18 48 13.936	+33 18 12.51
14H Lyr	19 12 03.285	+39 03 32.22
16H Lyr	*19 24 20.981*	*+36 12 59.47*
2H Mon	06 17 18.205	−07 48 01.79
3H Mon A	06 21 07.050	+04 37 11.68
17H Mon	07 58 40.698	−01 15 08.75
5H Oph	16 24 07.298	−18 20 40.08
6H Oph	16 25 05.689	−08 15 41.15
24H Oph	17 18 56.157	−24 57 05.20
27H Oph	17 23 58.550	−05 02 38.50
30H Oph B	17 32 36.697	+12 35 41.94
3H Ori	04 48 32.421	+05 31 16.34
7H Ori	04 51 38.661	+02 21 37.24
12H Ori	05 06 34.444	+09 46 01.19
23H Ori	05 21 57.674	−02 26 29.65
25H Ori	05 24 12.930	+03 03 14.26
26H Ori	05 28 06.416	+05 54 41.79
29H Ori	05 29 27.017	−00 20 04.41
29H Ori C	05 29 26.996	−00 19 11.93
35H Ori A	05 32 55.469	−05 26 50.89
36H Ori	05 32 59.126	−05 56 28.26

Hevelius

Hevelius	α_{1950}	δ_{1950}
37H Ori	05 33 40.476	−01 13 56.30
38H Ori	05 32 55.034	−04 52 10.86
43H Ori A	05 38 14.044	−01 58 03.05
52H Ori	*05 56 41.770*	*−09 33 36.62*
53H Ori A	05 59 37.854	+09 38 56.35
53H Ori B	05 59 37.852	+09 38 56.27
56H Ori	06 04 42.949	+14 46 34.32
57H Ori	06 09 10.198	+16 08 37.04
58H Ori	06 09 05.753	+14 13 18.68
5H Peg B	21 42 22.714	+25 24 51.41
7H Peg	21 50 47.084	+25 41 20.87
9H Peg	22 04 40.836	+25 06 00.71
37H Peg	00 10 39.447	+14 54 20.57
1H Per	01 48 41.291	+54 54 02.85
19H Per	03 04 54.356	+40 45 52.46
31H Per	03 41 10.603	+32 07 53.49
32H Per	03 46 22.636	+32 56 23.13
33H Per	03 52 52.755	+50 33 09.32
34H Per	03 50 58.959	+31 44 12.55
35H Per	03 54 29.432	+39 52 02.54
36H Per	03 55 42.825	+35 38 56.50
38H Per	04 05 01.311	+47 34 51.78
41H Per	04 14 28.414	+50 10 29.09
9H Psc	23 56 44.494	+06 35 11.41
18H Psc	01 00 04.351	+31 32 10.53
27H Psc B	01 11 01.311	+24 19 04.65
28H Psc B	01 11 08.335	+07 18 52.03
Pup		
Sge		

Hevelius

Hevelius	α_{1950}	δ_{1950}
1H Sgr	18 10 46.324	−21 04 25.46
13H Sgr	19 12 28.524	−25 20 40.36
14H Sgr	19 18 51.834	−16 03 01.82
4H Sco	*15 35 34.729*	*−29 36 53.36*
5H Sco	*15 50 25.602*	*−20 01 08.70*
6H Sco	15 53 47.482	−29 04 10.92
7H Sco	15 55 49.301	−25 58 18.14
8H Sco A	15 57 22.318	−22 28 51.37
9H Sco	16 02 31.507	−19 40 12.45
12H Sco	16 09 13.090	−27 47 53.94
13H Sco	16 09 05.107	−19 19 56.51
15H Sco	16 18 08.667	−25 28 28.14
Sct		
17H Ser	17 34 43.274	−15 22 07.81
19H Ser	17 38 36.137	−12 51 01.22
12H Sex	10 47 47.457	−08 37 56.58
2H Tau	03 24 27.329	+09 33 35.17
7H Tau	03 41 54.055	+23 57 27.82
10H Tau	03 44 30.424	+23 57 07.57
11H Tau A	03 43 00.821	+05 53 41.52
15H Tau	03 57 54.378	+12 21 02.13
18H Tau	04 03 32.054	+27 27 59.58
33H Tau	04 25 48.214	+15 45 41.88
37H Tau	04 32 54.244	+10 03 35.07
40H Tau	04 39 14.403	+22 51 46.00
51H Tau	05 34 39.263	+21 06 50.00

Hevelius	α_{1950}	δ_{1950}
2H Tri	01 50 13.440	+29 20 10.14
6H Tri	02 06 33.579	+34 45 06.52
7H Tri A	02 09 27.778	+30 04 10.44
7H Tri B	02 09 27.868	+30 04 14.14
9H Tri	02 13 59.587	+33 59 47.81
16H UMa	09 05 21.304	+51 48 28.45
18H UMa	09 10 24.611	+61 37 51.35
20H UMa	09 30 05.838	+70 03 06.47
30H UMa	10 20 33.038	+65 49 12.47
31H UMa	10 19 21.469	+41 45 06.25
38H UMa	10 51 06.527	+43 27 23.92
47H UMa B	11 15 31.120	+31 48 37.87
48H UMa	11 16 24.722	+38 27 36.38
67H UMa	13 21 54.916	+55 11 09.46
10H UMi	16 51 00.905	+82 07 21.54
30H Vir	13 22 33.301	−10 54 03.36
45H Vir	14 16 23.969	−13 08 30.89
1H Vul	19 14 03.958	+21 18 03.00
9H Vul	19 48 54.847	+22 28 53.89

Hevelius

Hevelius	α_{1950}	δ_{1950}

HR

HR	α_{1950}	δ_{1950}
3	00 02 46.530	−05 59 13.96
5	00 03 37.946	+58 09 29.61
15	00 05 47.841	+28 48 52.12
21	00 06 29.735	+58 52 26.77
39	00 10 39.447	+14 54 20.57
50	00 12 24.138	+08 32 35.70
65	00 15 03.362	+51 09 19.72
88	00 20 18.035	−12 29 14.89
91	00 21 33.308	+51 44 34.74
104	00 25 31.854	+44 07 05.34
142	00 32 40.390	−03 52 04.29
154	00 34 12.186	+33 26 39.75
184	00 40 41.378	+46 45 04.98
187	00 40 20.698	−65 44 32.93
192	00 42 18.429	+74 42 54.68
193	00 41 55.654	+48 00 40.00
208	00 44 23.261	+74 34 30.08
215	00 44 40.968	+23 59 43.95
219	00 46 03.907	+57 33 02.76
225	00 46 20.792	+16 40 15.74
226	00 47 02.830	+40 48 25.23
266	00 53 45.153	+60 05 33.50
291	01 00 04.351	+31 32 10.53
338	01 06 17.251	−55 30 45.72
360 B	01 11 01.311	+24 19 04.65
362	01 11 08.335	+07 18 52.03
390	01 19 23.103	+45 16 02.87
395	01 20 48.441	+37 27 16.30
407	01 22 51.423	+23 15 07.42
484	01 38 30.650	+25 29 38.52
496	01 40 30.757	+50 26 15.92
533	01 48 41.291	+54 54 02.85
536	01 48 57.679	+50 32 47.91
544	01 50 13.440	+29 20 10.14
553	01 51 52.340	+20 33 52.09
562	01 54 53.749	+41 27 05.29
604	02 00 49.974	+42 05 31.16
613	02 03 45.702	+22 24 39.13
622	02 06 33.579	+34 45 06.52
642 A	02 09 27.778	+30 04 10.44

HR

HR	α_{1950}	δ_{1950}
642 B	02 09 27.868	+30 04 14.14
660	02 13 59.587	+33 59 47.81
709	02 24 29.671	+50 20 51.62
710	02 23 37.678	−15 33 54.52
741	02 30 09.520	+14 48 52.07
760	02 34 12.057	+39 40 47.31
765	02 34 07.128	+24 25 50.90
780	02 36 23.832	−38 12 17.97
791	02 40 29.543	+67 36 50.37
802	02 39 06.229	−54 45 48.15
815	02 44 22.790	+69 25 33.10
836	02 46 29.840	+17 15 27.29
839	02 47 59.551	+58 06 32.59
906	03 03 48.046	+81 16 50.48
936	03 04 54.356	+40 45 52.46
976	03 12 53.372	+34 30 18.42
984	03 13 24.143	−09 00 15.50
987	03 15 03.309	+50 02 26.55
1034	03 24 29.041	+48 53 24.91
1038	03 24 27.329	+09 33 35.17
1056	03 27 54.488	+49 02 24.24
1057	03 27 47.529	+43 44 04.67
1078	03 30 16.731	+39 43 57.63
1081	03 29 00.652	−47 32 42.06
1084	03 30 34.355	−09 37 34.76
1088	03 31 34.657	−21 47 57.95
1099	03 34 13.130	+00 25 32.96
1118	03 37 46.777	+25 10 09.75
1131	03 41 10.603	+32 07 53.49
1136	03 40 51.035	−09 55 53.05
1142	03 41 54.055	+23 57 27.82
1153	03 43 00.821	+05 53 41.52
1163	03 44 41.964	+33 26 48.35
1165	03 44 30.424	+23 57 07.57
1177	03 46 22.636	+32 56 23.13
1203	03 50 58.959	+31 44 12.55
1210	03 52 52.755	+50 33 09.32
1220	03 54 29.432	+39 52 02.54
1221	03 54 05.621	+23 01 55.17
1228	03 55 42.825	+35 38 56.50

HR

HR	α_{1950}	δ_{1950}
1239	03 57 54.378	+12 21 02.13
1240	03 57 47.488	−24 09 24.93
1268	04 03 32.054	+27 27 59.58
1273	04 05 01.311	+47 34 51.78
1300	04 09 24.399	−20 29 05.34
1321	04 12 45.952	+06 04 37.48
1324	04 14 28.414	+50 10 29.09
1338	04 14 42.867	−51 36 42.99
1339	04 16 28.992	+21 01 22.50
1347	04 16 00.050	−33 55 09.54
1358	04 18 03.740	+13 44 47.42
1363	04 18 17.198	−07 42 38.65
1368	04 19 14.250	+13 57 38.10
1376	04 20 32.670	+16 39 43.80
1401	04 27 40.895	+72 25 26.83
1402	04 24 42.955	+11 06 05.36
1412	04 25 48.214	+15 45 41.88
1420	04 26 57.746	+10 24 48.13
1458	04 32 54.244	+10 03 35.07
1471	04 35 18.604	+20 35 09.65
1497	04 39 14.403	+22 51 46.00
1520	04 42 59.993	−03 20 41.33
1528	04 46 04.700	+32 30 08.81
1542	04 49 03.825	+66 15 38.64
1552	04 48 32.421	+05 31 16.34
1567	04 51 38.661	+02 21 37.24
1568	04 53 16.202	+53 40 27.79
1574	04 52 16.487	+00 23 15.42
1641	05 03 00.214	+41 10 08.38
1657	05 04 17.196	−04 43 14.92
1659	05 05 03.646	+24 12 02.80
1672	05 06 34.444	+09 46 01.19
1706	05 12 08.799	+32 37 54.05
1708	05 12 59.466	+45 56 58.04
1728	05 15 01.293	+33 42 55.62
1748	05 17 03.159	−01 27 44.10
1749	05 18 15.839	+41 45 24.49
1750	05 17 50.783	+27 54 30.55
1752	05 18 01.655	+29 31 15.77
1763	05 19 00.088	+08 22 50.64

HR

HR	α_{1950}	δ_{1950}
1764	05 18 58.611	−00 27 52.47
1783	05 21 12.789	−13 58 22.14
1788	05 21 57.674	−02 26 29.65
1803	05 23 12.686	+00 28 38.36
1811	05 24 12.930	+03 03 14.26
1839	05 28 06.416	+05 54 41.79
1841	05 28 46.48	+30 24 35.7
1851	05 29 26.996	−00 19 11.93
1852	05 29 27.017	−00 20 04.41
1863	05 30 35.612	−01 45 05.11
1868	05 30 59.063	−01 11 23.03
1868	05 30 59.063	−01 11 23.03
1873	05 31 31.369	−01 04 07.23
1875	05 32 23.746	+24 00 29.86
1890	05 32 53.307	−04 31 30.89
1892	05 32 55.034	−04 52 10.86
1893	05 32 48.356	−05 25 07.95
1894	05 32 48.669	−05 25 00.57
1897	05 32 55.469	−05 26 50.89
1899	05 32 59.126	−05 56 28.26
1900	05 33 05.918	−03 17 02.12
1903	05 33 40.476	−01 13 56.30
1910	05 34 39.263	+21 06 50.00
1913	05 34 35.124	+08 55 22.13
1917	05 32 43.056	−64 15 37.10
1918	05 35 00.528	−05 58 02.16
1924	05 36 07.380	+29 11 17.37
1927	05 34 41.153	−47 20 36.96
1928	05 36 38.143	+25 52 15.31
1932	05 36 16.398	−02 37 17.58
1948	05 38 14.044	−01 58 03.05
1952	05 38 18.310	−01 09 12.66
1991	05 38 39.383	−78 50 55.65
2001	05 45 05.621	−10 32 58.15
2027	05 50 28.973	+59 52 47.21
2034	05 50 10.984	+27 36 08.48
2052	05 51 58.976	+19 44 29.91
2056	05 51 17.886	−33 48 40.66
2088	05 55 51.579	+44 56 40.69
2100	05 55 48.526	+01 50 01.00

HR

HR	α_{1950}	δ_{1950}
2108	05 56 41.770	−09 33 36.62
2124	05 59 37.852	+09 38 56.27
2124	05 59 37.854	+09 38 56.35
2130	06 00 29.692	+19 41 35.51
2134	06 01 04.774	+23 16 04.51
2143	06 03 08.245	+38 29 20.96
2150	06 03 05.306	−10 14 15.83
2159	06 04 42.949	+14 46 34.32
2198	06 09 10.198	+16 08 37.04
2199	06 09 05.753	+14 13 18.68
2212	06 09 19.403	−54 57 24.59
2214	06 11 33.303	+17 55 20.05
2264	06 17 42.423	+53 28 28.35
2266	06 16 04.179	−19 56 46.76
2273	06 17 18.205	−07 48 01.79
2282	06 18 23.546	−30 02 23.86
2291	06 22 12.642	+56 18 51.33
2296	06 20 17.110	−33 24 35.76
2298	06 21 07.050	+04 37 11.68
2370	06 28 22.604	+11 17 15.24
2372	06 29 11.433	+32 29 32.59
2410	06 30 40.787	−61 50 32.16
2421	06 34 49.396	+16 26 37.40
2422	06 34 43.220	+06 10 44.47
2439	06 36 27.466	+24 38 41.02
2494	06 43 48.773	+08 38 30.21
2577	06 52 10.273	−01 41 31.75
2583	06 52 08.092	−23 51 51.60
2678	07 04 19.804	−11 12 55.96
2741	07 11 51.659	−30 59 48.41
2781	07 16 35.390	−24 27 58.28
2782	07 16 38.031	−24 51 42.75
2784	07 18 47.691	+55 22 40.73
2788	07 17 12.341	−16 18 00.39
2790	07 16 51.450	−36 39 00.62
2800	07 18 53.056	−26 52 08.01
2845	07 24 26.357	+08 23 29.89
2846	07 24 46.351	+21 32 56.88
2873	07 27 09.049	−31 21 06.77
2889	07 29 53.564	−35 46 49.34
2890	07 31 24.635	+31 59 57.61
2891	07 31 24.673	+32 00 00.53
2944	07 36 13.100	−25 15 00.39
2973	07 40 11.374	+29 00 22.23
2981	07 39 30.268	−38 24 56.59
3009	07 43 10.625	−14 33 48.31
3037	07 46 00.808	−46 29 00.76
3084	07 50 52.396	−38 43 56.79
3129	07 56 48.169	−49 06 30.34
3141	07 58 40.698	−01 15 08.75
3206	08 07 56.860	−47 11 49.46
3207	08 07 59.465	−47 11 18.31
3223	08 07 46.613	−68 28 12.53
3244	08 12 02.251	−46 50 21.54
3297	08 22 05.451	−03 35 16.72
3327	08 24 28.064	−38 53 43.30
3335	08 25 19.808	−20 40 40.27
3337 A	08 25 57.681	−02 21 00.72
3337 B	08 25 57.689	−02 21 00.60
3352	08 31 02.587	+74 53 49.46
3358	08 27 29.901	−47 45 40.37
3395	08 33 11.523	+06 47 45.07
3442	08 38 32.028	−52 52 36.32
3447	08 38 51.636	−52 44 37.11
3457	08 39 30.824	−59 34 55.29
3462	08 40 39.102	−47 55 07.79
3467	08 40 59.363	−52 56 01.48
3492	08 45 47.114	+06 01 24.82
3523	08 49 06.951	−06 59 19.68
3524	08 44 58.108	−78 53 15.10
3525	08 48 31.719	−41 54 08.36
3527	08 48 51.625	−46 20 29.20
3574	08 54 48.708	−52 31 50.25
3619	09 05 21.304	+51 48 28.45
3623	09 05 02.414	+10 52 14.13
3626	09 05 51.076	+26 50 13.96
3648	09 10 24.611	+61 37 51.35
3655	09 09 57.872	−06 54 13.73
3659	09 09 39.120	−58 45 41.26
3676	09 14 10.453	+47 01 37.03

HR

HR	α_{1950}	δ_{1950}
3734	09 20 33.853	−54 47 47.30
3771	09 30 05.838	+70 03 06.47
3798	09 30 06.988	−28 24 24.28
3800	09 31 09.969	+36 37 14.38
3811	09 32 15.317	+40 11 12.01
3815	09 32 39.994	+36 02 14.94
3852	09 38 29.008	+10 07 14.64
3860	09 35 25.599	−80 43 01.70
3872	09 41 40.607	−50 59 54.52
3889	09 47 02.359	+21 24 48.04
3893	09 47 53.998	+04 34 42.92
3928	09 54 37.760	+41 17 40.83
3937	09 55 32.100	+12 41 03.03
3970	10 02 41.299	−12 49 17.50
4069	10 19 21.469	+41 45 06.25
4072	10 20 33.038	+65 49 12.47
4089	10 21 29.101	−66 38 53.18
4148	10 32 24.801	+08 54 33.57
4167	10 35 11.747	−47 57 55.48
4168	10 36 16.459	+38 10 16.49
4188	10 39 22.612	−59 24 54.64
4199	10 41 10.052	−64 07 55.36
4220	10 44 39.915	−63 59 58.06
4237	10 47 47.457	−08 37 56.58
4248	10 51 06.527	+43 27 23.92
4317	11 03 31.885	−27 01 02.10
4369	11 14 26.026	−06 51 41.86
4374	11 15 31.120	+31 48 37.87
4380	11 16 24.722	+38 27 36.38
4456	11 32 06.389	+17 04 23.44
4535	11 46 39.843	+16 31 18.60
4560	11 52 29.996	+46 45 18.12
4564	11 53 06.284	+15 55 30.08
4590	11 58 17.520	−19 22 50.49
4599	12 00 27.869	−63 02 04.11
4603	12 01 43.859	−62 53 14.26
4624	12 06 18.122	−44 02 49.38
4646	12 09 52.843	+77 53 38.20
4665	12 13 21.404	+72 49 45.35
4693	12 17 48.976	+26 53 54.44

HR

HR	α_{1950}	δ_{1950}
4729	12 23 43.075	−62 50 42.31
4730	12 23 48.064	−62 49 19.43
4731	12 23 48.870	−62 49 21.48
4753	12 26 57.037	+24 23 06.37
4765 B	12 27 55.874	+69 28 40.81
4787	12 31 21.550	+70 03 48.96
4791	12 32 35.859	+18 39 07.47
4814	12 36 56.818	−66 14 12.09
4821	12 38 40.251	−12 44 26.80
4845	12 42 37.629	+39 33 00.75
4892	12 48 38.683	+83 41 22.40
4917	12 54 06.309	+54 22 10.96
4942	13 03 58.753	−49 38 19.89
4952	13 04 52.075	−65 02 21.47
4975	13 09 09.247	−59 39 17.43
4980	13 09 47.153	−59 33 00.38
4993	13 11 49.986	−67 37 48.79
5034	13 19 20.755	−60 42 38.14
5054	13 21 54.916	+55 11 09.46
5056	13 22 33.301	−10 54 03.36
5110	13 32 33.917	+37 26 16.62
5163	13 41 17.921	−05 14 51.96
5168	13 42 50.314	−32 47 29.86
5182	13 44 23.997	+25 57 08.51
5190	13 46 29.739	−41 26 21.52
5221	13 50 19.415	−31 40 53.33
5231	13 52 24.510	−47 02 34.87
5291	14 03 01.963	+64 36 51.57
5304	14 08 07.066	+25 19 39.84
5311	14 10 15.197	−54 23 31.03
5317	14 11 05.875	−00 36 36.88
5359	14 16 23.969	−13 08 30.89
5361	14 15 52.952	+35 44 21.87
5413	14 27 00.328	−49 17 47.29
5538	14 47 59.571	+48 55 35.48
5544	14 49 04.800	+19 18 24.60
5586	14 58 17.808	−08 19 18.19
5618	15 02 08.190	+47 50 53.10
5651	15 09 27.473	−44 18 46.87
5664	15 12 53.078	−60 46 24.48

HR

HR	α_{1950}	δ_{1950}
5687	15 15 39.095	−40 36 23.40
5695	15 18 04.851	−40 28 04.92
5702	15 17 28.967	+32 41 42.37
5708	15 19 16.541	−44 30 40.82
5723	15 21 29.019	−10 08 37.91
5736	15 24 05.522	−36 35 36.61
5764	15 30 05.440	−16 41 04.98
5776	15 31 47.980	−41 00 00.69
5793	15 32 34.145	+26 52 54.75
5801	15 34 28.166	−26 06 57.22
5812	15 35 34.729	−29 36 53.36
5834	15 37 29.590	+36 47 49.58
5839	15 39 29.420	−34 33 05.08
5863	15 43 30.273	−01 38 56.03
5883	15 47 46.468	−33 28 35.36
5889	15 47 29.713	+26 13 13.16
5902	15 50 25.602	−20 01 08.70
5906	15 50 54.404	−24 23 08.40
5928	15 53 47.482	−29 04 10.92
5934	15 54 44.832	−20 50 22.85
5944	15 55 49.301	−25 58 18.14
5953 A	15 57 22.318	−22 28 51.37
5971	15 59 26.291	+29 59 23.49
5984	16 02 31.507	−19 40 12.45
5986	16 00 56.829	+58 41 53.69
5992	16 03 12.539	+08 13 50.63
6027	16 09 05.107	−19 19 56.51
6028	16 09 13.090	−27 47 53.94
6063	16 12 48.252	+33 59 02.62
6084	16 18 08.667	−25 28 28.14
6095	16 19 42.738	+19 16 09.32
6098	16 23 03.880	−69 58 28.74
6111	16 21 44.526	+07 03 44.55
6115	16 23 30.524	−47 26 33.93
6118	16 24 07.298	−18 20 40.08
6129	16 25 05.689	−08 15 41.15
6148	16 28 04.105	+21 35 50.16
6164	16 32 51.149	−42 45 26.77
6169	16 33 11.685	+17 09 32.66
6171	16 33 43.677	−02 13 10.02

HR

HR	α_{1950}	δ_{1950}
6187	16 37 35.138	−48 40 01.19
6213	16 39 34.863	+27 00 42.82
6240	16 46 36.157	−15 34 54.81
6247	16 48 28.679	−37 57 48.92
6249	16 48 48.358	−41 46 16.53
6261	16 50 27.600	−41 54 47.89
6265	16 50 48.747	−41 44 20.88
6283	16 53 06.857	−40 44 43.53
6290	16 52 57.654	+13 41 57.63
6309	16 56 41.885	−12 48 59.45
6322	16 51 00.905	+82 07 21.54
6324	16 58 22.471	+30 59 55.92
6349	17 02 43.918	+00 46 28.23
6384	17 09 59.427	−56 49 49.71
6414	17 13 59.357	+01 15 53.07
6431	17 15 28.612	+33 09 10.07
6453	17 18 56.157	−24 57 05.20
6469	17 20 05.060	+40 01 22.05
6493	17 23 58.550	−05 02 38.50
6497	17 23 54.053	+07 38 17.03
6502	17 24 39.539	+20 07 19.95
6506	17 24 58.263	+34 44 11.51
6527	17 30 12.626	−37 04 09.63
6532	17 29 55.112	+11 57 53.52
6535	17 31 26.314	−32 32 56.46
6556 B	17 32 36.697	+12 35 41.94
6561	17 34 43.274	−15 22 07.81
6581	17 38 36.137	−12 51 01.22
6588	17 38 03.064	+46 01 55.28
6596	17 37 14.348	+68 46 52.48
6611	17 42 00.614	+14 25 48.97
6621	17 45 20.106	−26 57 32.15
6622	17 46 24.124	−53 35 53.52
6641	17 45 47.382	+47 37 42.95
6652	17 49 35.252	−35 00 29.22
6662	17 50 34.637	−34 44 35.62
6738	18 00 14.676	+20 49 55.39
6747	18 02 05.802	+01 54 53.89
6773	18 05 48.436	−25 28 55.10
6809	18 03 47.520	+79 59 48.27

HR

HR	α_{1950}	δ_{1950}
6812	18 10 46.324	−21 04 25.46
6833	18 14 17.236	−34 07 35.38
6841	18 14 32.490	−18 28 58.27
6849	18 13 48.337	+56 34 13.96
6876	18 19 01.374	+29 50 01.63
6917	18 24 02.968	+29 47 56.13
6918	18 24 38.902	+00 09 53.73
6920	18 21 28.502	+71 18 42.09
6928	18 25 32.158	+06 09 43.34
6934	18 28 03.240	−45 57 02.52
6935	18 27 04.776	−02 01 09.27
6938	18 28 20.113	−45 47 37.72
7038	18 42 19.553	−21 03 14.40
7049	18 41 39.774	+55 29 17.40
7056	18 43 02.931	+37 33 06.40
7059	18 43 53.644	−01 00 56.62
7084	18 45 35.976	+52 55 56.41
7091	18 47 11.007	+24 59 18.60
7106	18 48 13.936	+33 18 12.51
7109	18 49 44.326	+13 54 15.54
7113	18 50 08.196	+21 21 48.31
7124	18 47 59.715	+75 22 33.84
7131	18 51 58.664	+36 54 29.44
7152	18 55 21.086	−37 10 27.98
7174	18 56 19.140	+38 11 50.84
7200	18 59 13.272	+20 45 37.79
7248	19 04 37.292	+10 59 34.00
7257	19 06 26.482	−41 58 25.53
7258	19 04 39.741	+41 20 07.47
7261	19 05 31.990	+32 25 18.48
7267	19 06 25.899	+16 46 18.21
7292	19 12 28.524	−25 20 40.36
7298	19 12 03.285	+39 03 32.22
7305 B	19 13 55.995	+27 21 59.40
7306	19 14 03.958	+21 18 03.00
7326	19 16 37.017	+19 31 04.26
7333	19 17 52.724	−05 30 38.73
7338	19 17 15.486	+37 21 07.30
7342	19 18 51.834	−16 03 01.82
7369	19 22 07.267	+16 50 20.28

HR

HR	α_{1950}	δ_{1950}
7395	19 24 20.981	+36 12 59.47
7422	19 30 42.947	−40 08 37.91
7431	19 32 59.586	−24 49 48.90
7474	19 36 43.539	+05 16 56.69
7484	19 37 33.728	+54 51 21.44
7486	19 38 46.581	+13 41 53.48
7551	19 46 56.044	+33 18 40.04
7554	19 47 51.889	+07 46 29.79
7565	19 48 54.847	+22 28 53.89
7567	19 48 54.286	+40 28 17.88
7571	19 50 17.153	−14 43 57.84
7578	19 51 18.212	−24 04 00.88
7588	19 53 48.115	−68 53 48.54
7589	19 50 28.606	+46 53 51.46
7610	19 53 52.132	+11 17 22.86
7623	19 56 29.133	−35 24 47.51
7647	19 58 05.074	+36 54 16.84
7710	20 08 43.494	−00 58 16.06
7711	20 08 28.223	+26 45 17.59
7721	20 10 31.573	+47 35 10.07
7776	20 18 12.200	−14 56 26.57
7777	20 17 13.390	+46 09 52.89
7790	20 21 42.289	−56 53 50.02
7792	20 18 46.789	+62 05 53.62
7861	20 31 07.830	+43 01 13.37
7866	20 31 57.382	+35 04 43.09
7883	20 35 25.553	+11 12 07.03
7924	20 39 43.539	+45 06 03.12
7974	20 47 21.142	+07 40 37.88
8001	20 51 28.521	+44 11 49.78
8021	20 58 44.041	−77 13 01.18
8023	20 54 48.837	+44 43 53.95
8024	20 55 55.845	−14 40 39.39
8034	20 56 34.570	+04 06 02.09
8036	20 56 39.840	+41 44 42.75
8047	20 58 07.395	+47 19 30.08
8053	20 59 26.089	+45 57 31.22
8079	21 03 06.589	+43 43 39.33
8085	21 04 39.935	+38 29 59.10
8094	21 06 31.463	+30 00 09.40

HR	α_{1950}	δ_{1950}
8143	21 15 26.951	+39 11 03.50
8153	21 15 56.356	+58 24 03.42
8154	21 16 35.137	+43 44 05.12
8164	21 17 52.610	+58 24 41.39
8169	21 19 15.420	+32 23 58.16
8170	21 19 04.079	+40 08 05.80
8171	21 18 19.996	+64 39 34.13
8194	21 21 53.419	+25 05 48.62
8215	21 25 18.865	+36 53 54.87
8238	21 28 01.326	+70 20 27.85
8257	21 33 05.963	+27 58 27.11
8281	21 37 24.390	+57 15 44.56
8283	21 38 49.847	−14 16 17.57
8293	21 40 25.842	−19 51 00.45
8300	21 40 22.030	+40 50 52.85
8301	21 40 18.925	+50 57 39.10
8315 B	21 42 22.714	+25 24 51.41
8322	21 44 16.993	−16 21 18.42
8335	21 44 56.560	+49 04 39.35
8343	21 47 37.796	+29 56 26.28
8356	21 50 47.084	+25 41 20.87
8357	21 50 19.323	+55 33 40.38
8369	21 54 59.023	−59 15 05.97
8384	21 55 54.364	+65 55 02.03
8396	21 59 42.543	−17 12 21.87
8406	22 00 23.540	+57 45 30.82
8410	22 02 13.118	−01 08 55.93
8427	22 03 53.289	+47 59 15.34
8430	22 04 40.836	+25 06 00.71
8448	22 06 39.437	+45 29 45.72
8467	22 10 07.624	−04 58 04.69
8523	22 18 57.330	+46 17 03.55
8575	22 28 02.776	+49 06 00.43
8584	22 29 15.036	+29 17 08.97
8606	22 33 48.436	+49 48 41.23
8690	22 48 06.137	+41 41 17.91
8703	22 50 34.454	+16 34 31.28
8704	22 50 58.810	−11 52 58.44
8721	22 53 37.402	−31 49 50.61
8725	22 54 06.327	+41 20 11.95

HR	α_{1950}	δ_{1950}
8762 B	22 59 36.882	+42 03 25.50
8800	23 05 00.316	+45 47 51.23
8803	23 05 03.149	+59 27 24.27
8820	23 07 32.182	−45 31 04.35
8854	23 14 17.395	+61 41 23.90
8864	23 16 00.611	+41 30 01.40
8899	23 21 19.723	+32 15 22.09
8926	23 27 42.766	+58 16 23.18
8961	23 35 06.520	+46 11 13.83
8963	23 35 25.105	+18 07 24.38
9038	23 49 57.039	+75 15 57.16
9049	23 52 41.682	−32 11 59.56
9052	23 53 02.700	+57 08 02.20
9059	23 54 36.576	+55 25 39.25
9070	23 56 13.367	+46 08 05.56
9072	23 56 44.494	+06 35 11.41

HV

HV	α_{1950}	δ_{1950}
6	01 58 29.305	+56 29 36.8
84	21 40 44.402	+43 21 23.31
1020	05 43 59.5	−68 41 14.
1095	16 43 29.	−27 18 00.
1174	04 00 49.539	+27 59 22.76
1255	12 58 45.99	−64 21 28.1
1270	10 14 11.11	−59 57 56.1
1289	11 45 30.48	−60 17 16.0
1319	19 54 35.23	−09 27 26.4
1620	00 52 54.4	−72 48 23.
1761	00 56 42.4	−72 21 48.
1998	01 03 54.9	−72 17 25.
2016	01 04 50.2	−72 28 50.
2226	01 22 30.6	−73 37 42.
2241	04 57 10.1	−66 38 27.
2348	05 10 00.2	−69 24 06.
2435	05 18 43.24	−68 16 33.7
2505	05 25 17.5	−68 33 46.
2543	05 27 31.41	−67 14 16.1
2656	05 32 59.1	−68 26 36.
2765	05 40 15.2	−69 16 59.
2894	02 41 44.344	+65 30 58.93
2895	02 48 14.963	+62 34 39.82
2910	18 21 43.60	−13 40 53.7
2916	18 46 25.718	−10 17 56.27
2923	04 33 42.934	+18 39 15.79
2930	05 06 14.762	+39 31 25.41
2931	05 08 10.174	+42 06 18.30
2944	13 13 58.03	−62 21 45.6
2956	14 47 26.	−55 42 42.
2967	16 49 05.67	−61 30 14.5
2977	21 45 04.16	+57 03 42.0
2980	22 06 39.437	+45 29 45.72
2981	22 16 04.60	+54 12 59.4
3017	16 52 08.612	+16 55 02.73
3032	21 32 23.080	−70 33 28.79
3037	03 21 50.132	−00 52 47.00
3041	03 52 25.246	−15 04 49.57
3053	16 01 22.456	−46 09 27.41
3076	18 22 42.706	−12 43 09.24

HV

HV	α_{1950}	δ_{1950}
3077	18 23 48.968	−09 13 56.04
3085	00 33 59.099	−25 56 55.09
3155	22 18 24.567	−07 12 59.69
3189	07 37 48.94	−69 25 39.5
3274	15 33 07.055	+64 04 22.39
3281	18 20 50.701	+47 32 32.22
3282	16 13 52.	−62 36 48.
3299	18 15 11.385	−43 22 52.61
3348	09 02 37.185	−32 10 47.60
3362	11 49 59.812	−61 14 45.12
3365	21 48 46.938	−42 36 28.98
3412	20 54 43.193	+04 53 13.36
3428	17 11 43.180	+16 24 27.89
3435	22 51 22.571	+37 40 18.88
3518	20 05 20.57	+17 33 30.0
3550	01 26 16.047	+60 42 36.07
3551	01 57 42.427	+27 38 50.46
3559	06 09 03.	+23 31 06.
3567	07 50 49.059	−02 54 40.73
3603	12 59 13.446	−19 30 19.45
3681	14 55 51.295	+40 55 39.85
3899	19 23 27.	−10 21 24.
3941	17 06 31.	−27 14 54.
4048	18 16 16.2	−25 25 43.
4389	17 04 51.	−32 37 42.
4454	07 30 35.866	−20 41 02.30
4647	13 28 09.54	−54 43 05.9
4889	15 32 32.	−40 24 30.
4908	15 45 49.	−42 55 54.
4989	22 24 12.	−19 40 00.
5060	14 02 39.39	−71 07 58.8
5428	19 31 36.	+14 11 06.
5468	19 45 48.361	+09 11 01.76
5542	05 01 06.1	−70 09 32.
5753	05 20 11.8	−68 18 05.
5943	05 34 21.6	−66 46 13.
6120	21 20 37.	+26 49 06.
6149	21 36 35.24	+26 27 59.3
6187	03 44 12.2	+24 57 51.
6189	03 45 16.	+22 10 12.

HV	α_{1950}	δ_{1950}
6222	20 58 18.	−11 15 36.
6262	21 18 58.	−14 30 54.
6277	04 09 26.88	−11 55 07.7
6292	04 20 18.93	−13 28 27.3
6347	01 10 26.56	−79 26 33.9
6427	00 13 15.51	−31 22 22.2
6432	13 11 05.	−60 36 30.
6441	13 18 22.400	−60 15 32.94
6479	13 43 25.	−59 00 54.
6551	17 26 51.	−46 03 36.
6553	17 27 12.	−42 08 54.
6576	17 34 35.87	−47 08 58.6
6770	17 30 19.	−63 00 42.
7095	17 57 36.	−34 35 30.
7177	18 02 47.	−37 31 12.
7868	17 52 59.793	−32 28 06.35
7889	17 15 37.39	−31 31 53.6
7898	17 22 38.	−35 29 36.
8002	00 08 51.66	−11 45 25.3
8016	02 08 29.42	−63 32 47.8
8028	04 09 32.95	−71 25 28.9
8171	08 56 44.57	−41 36 09.8
8364	11 22 25.	−35 37 18.
8574	14 09 45.	−40 07
8865	16 16 55.51	−54 46 13.9
9175	17 56 40.	−29 33 42.
9996	18 33 41.	−51 00 24.
10031	18 38 54.66	−57 33 43.0
10044	18 41 13.53	−59 41 35.5
10068	18 45 23.	−51 39 30.
10074	18 46 27.	−50 54 36.
10120	11 11 36.87	−37 24 26.3
10129	18 48 45.961	+24 39 36.06
10172	12 39 37.	−33 17 18.
10215	12 49 42.72	−28 58 40.7
10231	12 54 39.	−32 57 00.
10263	17 40 46.	−28 27 24.
10285	17 47 11.	−27 24 06.
10307	17 52 27.28	−28 17 31.3
10327	05 14 58.535	+36 34 47.04

HV

HV	α_{1950}	δ_{1950}
10426	14 41 45.28	+22 13 35.7
10559	16 18 43.	−03 56 14.
10577	16 22 36.	−04 33 48.
10600	16 26 13.	−05 43 56.
10836	16 59 29.	−34 36 30.
11068	12 35 03.324	−19 18 10.62
11085	18 59 48.098	−10 47 42.35
11086	22 34 56.770	+56 38 45.88
11091	20 17 48.291	+38 10 39.06
11109	08 59 03.648	−52 21 31.73
11111	20 17 42.595	+38 34 24.27
11902	02 45 01.	−63 47 36.
12244	05 38 15.8	−72 19 33.
12411	04 53 17.5	−70 22 38.
12615	05 31 05.3	−66 36 48.
12634	05 41 40.7	−71 19 14.
12714	04 42 46.5	−70 04 07.

INCA	α_{1950}	δ_{1950}
1004	00 12 24.138	+08 32 35.70
1008	00 51 26.650	−74 55 23.30
1011	01 14 18.536	+06 32 52.97
1014	01 22 51.423	+23 15 07.42
1022	02 36 40.574	+61 00 54.84
1026	03 04 54.356	+40 45 52.46
1027	03 10 07.368	+59 22 38.39
1028	03 23 33.019	+28 32 32.53
1029	03 34 13.130	+00 25 32.96
1032	04 06 11.668	−52 42 00.44
1036	04 14 28.414	+50 10 29.09
1056	05 33 40.476	−01 13 56.30
1075	06 52 08.092	−23 51 51.60
1084	07 40 11.374	+29 00 22.23
1088	08 07 59.465	−47 11 18.31
1092	08 57 34.039	−27 37 10.53
1103	09 57 13.305	+24 47 36.13
1119	11 42 11.027	−49 08 21.42
1128	12 13 21.404	+72 49 45.35
1132	12 31 21.550	+70 03 48.96
1140	13 28 24.772	+24 29 25.23
1143	13 32 33.917	+37 26 16.62
1147	13 53 51.820	+26 09 46.07
1165	15 23 30.115	−62 50 47.61
1168	15 34 58.574	−57 32 36.68
1172	16 12 48.252	+33 59 02.62
1185	17 12 18.174	−66 53 40.35
1189	17 55 51.349	+15 08 31.12
1198	18 22 42.706	−12 43 09.24
1201	18 48 13.936	+33 18 12.51
1202	18 49 13.745	−50 14 26.92
1208	19 19 42.783	−20 44 16.77
1219	19 56 28.879	+35 03 54.77
1225	20 18 46.706	+43 41 42.90
1227	20 30 34.848	+41 08 04.04
1250	22 06 39.437	+45 29 45.72
1251	22 28 02.776	+49 06 00.43
1254	22 36 01.287	−20 52 49.35
1257	22 50 34.454	+16 34 31.28
1263	23 10 50.577	+02 24 09.70

INCA	α_{1950}	δ_{1950}
1265	23 35 06.520	+46 11 13.83
1272	23 52 29.081	+28 21 17.88
2003	00 20 18.035	−12 29 14.89
2011	00 44 40.968	+23 59 43.95
2083	04 07 15.207	−08 01 27.35
2113	05 29 27.017	−00 20 04.41
2115	05 32 53.307	−04 31 30.89
2117	05 36 16.398	−02 37 17.58
2195	09 06 18.413	+54 41 39.96
2298	15 37 12.527	+29 47 00.77
2334	16 51 00.905	+82 07 21.54
2363	18 06 19.888	+29 40 57.54
2373	18 24 38.902	+00 09 53.73
2394	18 53 47.211	+23 29 40.63
2400	19 05 35.458	+30 10 23.75
2442	20 17 42.595	+38 34 24.27
2460	21 00 16.464	+27 36 33.50
2476	21 44 16.993	−16 21 18.42
2601	02 44 22.790	+69 25 33.10
2603	07 17 12.341	−16 18 00.39
2609	14 58 17.808	−08 19 18.19
2614	19 16 37.017	+19 31 04.26
2651	01 20 16.664	+00 27 16.10
2653	02 41 25.470	−38 08 20.27
2654	03 34 10.194	+25 49 51.24
2656	04 33 41.765	+27 02 01.03
2659	07 34 40.891	−44 50 40.50
2666	17 13 08.682	−26 28 33.11
2669	22 57 42.167	−34 00 41.25
2701	01 06 17.251	−55 30 45.72
2712	17 55 49.486	−36 56 08.06
2714	19 28 39.676	−02 12 59.60
2715	19 50 17.153	−14 43 57.84
2716	20 53 50.503	−70 36 57.94

IRC

IRC	α_{1950}	δ_{1950}
+70090	09 30 05.838	+70 03 06.47
+70113	12 27 55.874	+69 28 40.81
+60004	00 06 29.735	+58 52 26.77
+60019	00 46 03.907	+57 33 02.76
+60224	13 21 54.916	+55 11 09.46
+60238	16 00 56.829	+58 41 53.69
+60313	21 17 52.610	+58 24 41.39
+60356	22 27 17.496	+58 08 51.88
+50033	01 19 23.103	+45 16 02.87
+50139	05 12 59.466	+45 56 58.04
+50337	20 39 43.539	+45 06 03.12
+50471	23 35 06.520	+46 11 13.83
+40034	02 00 49.974	+42 05 31.16
+40055	03 04 54.356	+40 45 52.46
+40148	05 55 51.579	+44 56 40.69
+40208	09 31 09.969	+36 37 14.38
+40218	10 19 21.469	+41 45 06.25
+40255	14 15 52.952	+35 44 21.87
+40433	20 31 57.382	+35 04 43.09
+40468	21 03 06.589	+43 43 39.33
+40469	21 04 39.935	+38 29 59.10
+30004	00 05 47.841	+28 48 52.12
+30031	01 50 13.440	+29 20 10.14
+30034	02 06 33.579	+34 45 06.52
+30036	02 09 27.778	+30 04 10.44
+30036	02 09 27.868	+30 04 14.14
+30068	03 50 58.959	+31 44 12.55
+30188 A	07 31 24.673	+32 00 00.53
+30188 B	07 31 24.635	+31 59 57.61
+30191	07 40 11.374	+29 00 22.23
+30229	11 15 31.120	+31 48 37.87

IRC

IRC	α_{1950}	δ_{1950}
+30275	15 32 34.145	+26 52 54.75
+30279	15 47 29.713	+26 13 13.16
+30343	18 48 15.823	+33 17 33.39
+30343	18 48 13.936	+33 18 12.51
+30478	21 42 22.714	+25 24 51.41
+30485	22 04 40.836	+25 06 00.71
+20013	00 44 40.968	+23 59 43.95
+20031	01 51 52.340	+20 33 52.09
+20063	03 44 30.424	+23 57 07.57
+20113	05 34 39.263	+21 06 50.00
+20131	06 01 04.774	+23 16 04.51
+20154	06 34 49.396	+16 26 37.40
+20244	12 32 35.859	+18 39 07.47
+20276	14 49 04.800	+19 18 24.60
+20296	16 19 42.738	+19 16 09.32
+20300	16 28 04.105	+21 35 50.16
+10193	08 44 07.508	+06 36 11.91
+10210	09 38 29.008	+10 07 14.64
+10331	17 32 36.697	+12 35 41.94
+10545	23 56 44.494	+06 35 11.41
00076	05 29 27.017	−00 20 04.41
00079	05 33 40.476	−01 13 56.30
00081	05 38 14.044	−01 58 03.05
00166	07 58 40.698	−01 15 08.75
−10002	00 02 46.530	−05 59 13.96
−10048	03 30 34.355	−09 37 34.76
−10050	03 40 51.035	−09 55 53.05
−10093	05 32 48.669	−05 25 00.57
−10093	05 32 48.356	−05 25 07.95
−10286	13 22 33.301	−10 54 03.36
−10304	14 16 23.969	−13 08 30.89
−10505	19 17 52.724	−05 30 38.73
−10537	20 18 12.200	−14 56 26.57

IRC

IRC	α_{1950}	δ_{1950}
−20303	15 57 22.318	−22 28 51.37
−20305	16 02 31.507	−19 40 12.45
−20373	17 34 43.274	−15 22 07.81
−20558	19 18 51.834	−16 03 01.82
−20608	21 44 16.993	−16 21 18.42
−30260	16 18 08.667	−25 28 28.14
−30407	19 12 28.524	−25 20 40.36

IRC

IRC	α_{1950}	δ_{1950}

LS	α_{1950}	δ_{1950}
LS I +65°10	01 14 41.693	+65 01 43.04
LS I +63°39	00 03 26.837	+63 24 05.25
LS I +62°50	23 54 37.99	+62 43 40.0
LS I +62°165	01 27 12.654	+62 28 03.12
LS I +62°229	02 48 14.963	+62 34 39.82
LS I +61°135	00 15 34.860	+61 26 58.48
LS I +61°284	02 28 54.018	+61 14 08.89
LS I +61°303	02 36 40.574	+61 00 54.84
LS I +60°42	23 48 11.28	+60 37 57.8
LS I +60°230	02 19 29.00	+60 36 12.5
LS I +59°15	23 43 10.92	+59 37 42.6
LS I +59°98	01 52 15.745	+59 01 44.03
LS I +59°174	03 10 07.368	+59 22 38.39
LS I +57°1	23 53 02.700	+57 08 02.20
LS I +57°24	01 35 37.792	+57 54 09.47
LS I +57°48	02 12 07.482	+57 31 52.18
LS I +57°50	02 12 32.399	+57 30 47.09
LS I +56°42	02 14 16.084	+56 24 38.60
LS I +56°62	02 37 32.967	+56 31 00.34
LS I +55°8	00 18 10.327	+55 25 38.39
LS I +55°22	01 59 07.466	+55 23 00.78
LS I +54°2	01 48 41.291	+54 54 02.85
LS II +40°18	20 17 35.404	+40 43 47.71
LS II +39°43	20 21 21.22	+39 00 02.3
LS II +38°11	20 10 17.128	+38 12 15.05
LS II +38°28	20 15 11.565	+38 58 59.53
LS II +38°42	20 17 42.595	+38 34 24.27
LS II +38°44	20 17 48.291	+38 10 39.06
LS II +37°12	20 06 54.984	+37 05 23.35
LS II +37°43	20 15 08.535	+37 16 03.40
LS II +37°46	20 15 37.961	+37 09 09.05
LS II +37°61	20 17 16.236	+37 36 41.93
LS II +36°23	20 08 21.611	+36 01 39.80
LS II +36°38	20 12 39.405	+36 30 28.15
LS II +36°55	20 16 53.877	+36 10 59.54
LS II +36°65	20 19 38.906	+36 45 36.52
LS II +35°8	19 56 28.879	+35 03 54.77
LS II +35°33	20 04 04.633	+35 38 38.28
LS II +35°37	20 04 16.624	+35 14 29.31
LS II +35°43	20 05 30.742	+35 34 20.72
LS II +35°53	20 07 20.809	+35 20 10.51
LS II +34°28	20 50 03.571	+34 28 07.77
LS II +33°6	19 46 56.044	+33 18 40.04
LS II +31°27	20 31 03.680	+31 29 08.84
LS II +29°27	19 54 39.43	+29 51 25.1
LS II +28°7	19 44 14.46	+28 08 54.7
LS II +23°50	19 49 30.7	+23 45 30.
LS II +18°14	19 46 17.99	+18 04 31.0
LS II +18°17	19 52 39.05	+18 06 04.8
LS II +15°15	19 46 11.83	+15 29 44.8
LS III +66°5	22 30 50.559	+66 53 34.27
LS III +64°9	22 46 03.889	+64 47 52.45
LS III +63°18	23 01 01.330	+63 25 43.62
LS III +63°20	23 02 01.066	+63 07 37.84
LS III +62°5	21 52 21.867	+62 22 39.81
LS III +62°23	22 51 57.212	+62 19 49.22
LS III +62°30	22 54 44.244	+62 21 26.84
LS III +62°32	22 56 41.180	+62 48 32.58
LS III +62°34	22 57 43.186	+62 30 32.18
LS III +62°35	22 58 54.434	+62 36 47.06
LS III +61°17	22 51 18.386	+61 52 46.53
LS III +61°22	23 14 17.395	+61 41 23.90
LS III +58°6	21 15 56.356	+58 24 03.42
LS III +58°55	22 45 19.108	+58 13 30.10
LS III +57°13	21 37 24.390	+57 15 44.56
LS III +57°20	22 00 23.540	+57 45 30.82
LS III +57°26	22 07 48.964	+57 29 43.36
LS III +57°76	22 44 54.272	+57 49 13.60
LS III +56°15	21 44 45.358	+56 41 07.57
LS III +56°59	22 27 02.414	+56 20 49.40
LS III +56°80	22 34 56.770	+56 38 45.88
LS III +55°31	22 14 52.754	+55 13 37.53
LS III +55°34A	22 16 54.536	+55 52 29.89
LS III +55°34B	22 16 54.536	+55 52 29.89
LS III +55°53	22 19 16.829	+55 17 55.60

LS	α_{1950}	δ_{1950}
LS III +54°39	22 16 04.60	+54 12 59.4
LS III +54°62	22 28 08.372	+54 31 59.60
LS III +53°12	21 42 13.88	+53 29 32.2
LS III +53°70	22 15 13.201	+53 57 31.96
LS III +53°79	22 25 10.423	+53 55 34.44
LS III +52°2	20 39 54.358	+52 24 29.00
LS III +50°29	21 40 18.925	+50 57 39.10
LS III +49°33	21 44 56.560	+49 04 39.35
LS III +47°22	20 58 07.395	+47 19 30.08
LS III +46°1	19 50 28.606	+46 53 51.46
LS III +46°41	21 02 08.677	+46 07 52.41
LS III +45°45	20 59 26.089	+45 57 31.22
LS III +44°28	20 54 48.837	+44 43 53.95
LS III +43°7	20 18 46.706	+43 41 42.90
LS III +43°19	21 16 35.137	+43 44 05.12
LS III +43°24	21 40 44.402	+43 21 23.31
LS III +41°11	20 14 57.75	+41 48 26.6
LS III +41°31	20 30 34.848	+41 08 04.04
LS IV +16°4	19 09 16.46	+16 46 36.0
LS IV +9°5	18 53 00.002	+09 16 53.30
LS IV +1°1	18 02 05.802	+01 54 53.89
LS IV +0°6	18 53 13.166	+00 11 58.95
LS IV −1°7	18 41 37.182	−01 36 21.90
LS IV −2°24	19 01 34.079	−02 06 18.37
LS IV −4°34	19 01 20.36	−04 23 32.7
LS IV −9°12	18 23 48.968	−09 13 56.04
LS IV −10°3	18 09 38.201	−10 44 41.64
LS IV −10°26	18 59 48.098	−10 47 42.35
LS IV −11°14	18 16 19.810	−11 39 16.24
LS IV −12°54	18 22 42.706	−12 43 09.24
LS IV −12°58	18 24 14.0	−12 01 07.
LS IV −13°44	18 21 43.60	−13 40 53.7
LS IV −14°54	18 22 24.821	−14 00 26.18
LS V +47°3	02 42 19.639	+47 56 01.86
LS V +47°10	04 05 01.311	+47 34 51.78
LS V +44°15	04 33 34.82	+44 06 39.6
LS V +43°29	05 38 43.987	+43 02 09.84
LS V +43°31	05 44 51.095	+43 03 59.45
LS V +42°24	05 08 10.174	+42 06 18.30
LS V +41°25	05 01 32.952	+41 13 13.94
LS V +41°27	05 03 00.214	+41 10 08.38
LS V +39°1	03 54 29.432	+39 52 02.54
LS V +39°16	05 06 14.762	+39 31 25.41
LS V +36°9	05 14 58.535	+36 34 47.04
LS V +36°18	05 39 08.717	+36 10 36.86
LS V +35°1	03 55 42.825	+35 38 56.50
LS V +35°19	05 26 21.969	+35 20 10.96
LS V +34°25	05 24 32.790	+34 44 31.22
LS V +29°6	05 36 07.380	+29 11 17.37
LS V +26°5	05 35 47.963	+26 17 18.02
LS V +24°1	05 05 03.646	+24 12 02.80
LS V +23°49	06 15 22.778	+23 35 30.97
LS V +21°11	05 34 39.263	+21 06 50.00
LS V +20°6	05 52 54.66	+20 09 52.8
LS VI +10°4	06 19 17.7	+10 55 10.
LS VI +8°1	05 19 00.088	+08 22 50.64
LS VI +8°2	05 34 35.124	+08 55 22.13
LS VI +6°4	06 34 29.664	+06 06 08.90
LS VI +6°5	06 34 43.220	+06 10 44.47
LS VI +4°11	06 29 21.30	+04 54 54.1
LS VI +2°18	06 43 13.331	+02 33 11.10
LS VI −1°12	06 52 10.273	−01 41 31.75
LS VI −2°3	05 36 16.398	−02 37 17.58
LS VI −3°5	06 53 20.07	−03 58 38.9
LS VI −3°13	06 58 56.773	−03 02 43.49
LSS 98	06 52 08.092	−23 51 51.60
LSS 155	07 03 22.907	−12 44 04.08
LSS 167	07 04 19.804	−11 12 55.96
LSS 306	07 16 35.390	−24 27 58.28
LSS 731	07 43 02.02	−31 47 11.5

LS

LS	α_{1950}	δ_{1950}
LSS 753	07 43 57.58	-34 12 25.9
LSS 980	08 07 59.465	-47 11 18.31
LSS 1024	08 13 49.648	-49 04 01.50
LSS 1145	08 43 05.61	-45 47 58.2
LSS 1160	08 46 29.67	-44 41 13.3
LSS 1176	08 48 31.719	-41 54 08.36
LSS 1181	08 48 51.625	-46 20 29.20
LSS 1202	08 53 18.216	-47 24 03.05
LSS 1227	09 00 13.184	-40 21 25.29
LSS 1374	09 53 14.399	-57 29 24.61
LSS 1495	10 17 46.531	-57 09 12.71
LSS 1568	10 24 41.42	-58 23 07.9
LSS 1571	10 25 07.31	-57 25 13.5
LSS 1761	10 39 22.612	-59 24 54.64
LSS 1799	10 41 15.06	-59 46 26.5
LSS 1802	10 41 20.20	-59 35 20.3
LSS 1803	10 41 20.257	-59 56 18.50
LSS 1814	10 41 50.55	-59 17 07.7
LSS 1820	10 42 00.906	-59 17 05.00
LSS 1825	10 42 04.458	-59 36 41.58
LSS 1832	10 42 12.426	-59 18 48.37
LSS 1834	10 42 15.45	-59 47 34.6
LSS 1839	10 42 27.048	-59 43 49.19
LSS 1839	10 42 27.048	-59 43 49.19
LSS 1849	10 42 37.396	-59 28 28.04
LSS 1861	10 42 50.86	-59 28 05.1
LSS 1871	10 43 11.67	-59 25 01.6
LSS 1874	10 43 19.94	-59 27 48.8
LSS 1881	10 43 46.729	-59 08 39.24
LSS 1882	10 43 50.01	-59 49 24.3
LSS 1901	10 44 56.97	-59 48 50.8
LSS 1968	10 49 13.366	-56 08 41.97
LSS 1970	10 49 10.26	-62 01 05.9
LSS 2008	10 51 35.64	-59 11 18.7
LSS 2010	10 51 43.77	-59 14 47.2
LSS 2033	10 53 58.015	-60 07 30.74
LSS 2154	11 04 18.018	-65 14 21.13
LSS 2198	11 07 56.867	-60 42 27.02
LSS 2232	11 09 56.419	-60 49 23.03
LSS 2268	11 12 30.44	-60 23 13.1

LS

LS	α_{1950}	δ_{1950}
LSS 2275	11 12 57.80	-60 59 16.2
LSS 2370	11 28 56.052	-65 27 59.47
LSS 2417	11 35 11.924	-63 04 14.28
LSS 2432	11 36 49.17	-63 08 37.5
LSS 2464	11 40 26.17	-62 09 26.2
LSS 2471	11 41 21.54	-61 27 56.7
LSS 2501	11 45 30.48	-60 17 16.0
LSS 2502	11 45 33.632	-61 55 43.90
LSS 2515	11 48 04.320	-60 30 56.21
LSS 2584	12 02 42.8	-61 46 26.
LSS 2588	12 03 12.748	-69 17 41.03
LSS 2639	12 14 55.850	-57 53 12.68
LSS 2745	12 40 53.23	-62 48 49.4
LSS 2807	12 50 37.653	-60 05 09.62
LSS 2883	12 59 38.5	-63 33 59.
LSS 2933	13 04 52.075	-65 02 21.47
LSS 3013	13 14 45.6	-62 10 19.
LSS 3043	13 18 22.400	-60 15 32.94
LSS 3074	13 23 40.5	-61 46 44.
LSS 3114	13 30 07.1	-62 03 36.
LSS 3331	15 12 53.078	-60 46 24.48
LSS 3672	16 32 51.149	-42 45 26.77
LSS 3701	16 37 35.138	-48 40 01.19
LSS 3704	16 37 49.66	-48 40 39.0
LSS 3768	16 46 31.310	-41 32 08.29
LSS 3785	16 48 48.358	-41 46 16.53
LSS 3807	16 50 27.600	-41 54 47.89
LSS 3810	16 50 48.747	-41 44 20.88
LSS 3821	16 51 05.662	-41 20 33.89
LSS 3843	16 52 37.153	-40 16 13.24
LSS 3850	16 53 06.857	-40 44 43.53
LSS 3899	17 00 32.697	-37 46 28.76
LSS 3917	17 03 19.261	-46 56 13.25
LSS 4070	17 15 37.39	-31 31 53.6
LSS 4181	17 25 45.613	-32 57 54.91
LSS 4187	17 26 47.627	-33 40 41.68
LSS 4193	17 27 58.98	-31 20 30.8
LSS 4225	17 31 26.314	-32 32 56.46
LSS 4275	17 33 34.99	-34 00 49.0
LSS 4282	17 33 56.0	-33 26 08.

LS

LS	α_{1950}	δ_{1950}
LSS 4635	18 02 06.467	-24 24 10.84
LSS 4700	18 06 14.180	-23 59 51.90
LSS 4791	18 10 46.324	-21 04 25.46
LSS 5021	18 22 24.821	-14 00 26.18
LSS 5024	18 22 42.706	-12 43 09.24
LSS 5061	18 25 31.381	-16 44 02.08

LS

LS	α_{1950}	δ_{1950}

MR

MR	α_{1950}	δ_{1950}
3	01 35 37.792	+57 54 09.47
4	02 37 32.967	+56 31 00.34
6	06 52 08.092	−23 51 51.60
9	07 43 02.02	−31 47 11.5
10	07 43 57.58	−34 12 25.9
12	08 07 59.465	−47 11 18.31
13	08 43 05.61	−45 47 58.2
16	08 53 18.216	−47 24 03.05
19	09 53 14.399	−57 29 24.61
23	10 24 41.42	−58 23 07.9
25	10 39 22.612	−59 24 54.64
31	10 51 43.77	−59 14 47.2
34	11 04 18.018	−65 14 21.13
36	11 07 56.867	−60 42 27.02
38	11 12 57.80	−60 59 16.2
40	12 02 42.8	−61 46 26.
42	12 40 53.23	−62 48 49.4
43	13 04 52.075	−65 02 21.47
44	13 14 45.6	−62 10 19.
49	13 30 07.1	−62 03 36.
58	15 59 23.458	−62 33 19.62
64	16 48 48.358	−41 46 16.53
65	16 50 48.747	−41 44 20.88
75	17 33 34.99	−34 00 49.0
76	17 33 56.8	−33 26 08.
79	17 58 26.412	−32 42 54.63
85	18 16 19.810	−11 39 16.24
91	19 01 20.36	−04 23 32.7
94	19 44 14.46	+28 08 54.7
95	19 46 17.99	+18 04 31.0
99	20 04 04.633	+35 38 38.28
100	20 08 21.611	+36 01 39.80
102	20 10 17.128	+38 12 15.05
103	20 12 39.405	+36 30 28.15
104	20 15 08.535	+37 16 03.40
106	20 17 42.595	+38 34 24.27
107	20 18 46.706	+43 41 42.90
108	20 19 38.906	+36 45 36.52
111	20 30 17.9	+40 38 16.
113	20 39 54.358	+52 24 29.00
114	22 07 48.964	+57 29 43.36
116	22 16 54.536	+55 52 29.89
118	22 34 56.770	+56 38 45.88

Name

Name	α_{1950}	δ_{1950}
Acrux	12 23 48.064	−62 49 19.43
Alcyone	03 44 30.424	+23 57 07.57
Algenib	00 10 39.447	+14 54 20.57
Algol	03 04 54.356	+40 45 52.46
Alhena	06 34 49.396	+16 26 37.40
Alnilam	05 33 40.476	−01 13 56.30
Alnitak	05 38 14.044	−01 58 03.05
Alphekka	15 32 34.145	+26 52 54.75
Alpheratz	00 05 47.841	+28 48 52.12
Capella	05 12 59.466	+45 56 58.04
Castor A	07 31 24.673	+32 00 00.53
Castor B	07 31 24.635	+31 59 57.61
Castor C	07 31 26.235	+31 58 50.36
Deneb	20 39 43.539	+45 06 03.12
Mintaka	05 29 27.017	−00 20 04.41
Mizar	13 21 54.916	+55 11 09.46
Rasalhague B	17 32 36.697	+12 35 41.94
Shaula	17 30 12.626	−37 04 09.63
Sheliak	18 48 13.936	+33 18 12.51
Spica	13 22 33.301	−10 54 03.36
Thuban	14 03 01.963	+64 36 51.57

Nova	α_{1950}	δ_{1950}
And 1988	02 26 22.18	+39 49 17.4
Aqr 1907	21 09 28.26	+09 01 56.4
Aql 1918	18 46 21.470	+00 31 36.21
Aur 1891	05 28 46.48	+30 24 35.7
Aur 1964	05 25 16.96	+33 15 57.4
Cas 1929	23 48 48.71	+60 01 29.2
Cet 1963	01 14 37.52	−18 12 10.4
CrA 1949	17 56 58.18	−39 00 29.3
CrA 1987	17 56 58.18	−39 00 29.3
Cyg 1938	20 22 06.37	+33 42 16.6
Cyg 1989	20 22 06.37	+33 42 16.6
Cyg 1975	21 09 52.857	+47 56 41.05
Cyg 1978	21 40 38.06	+43 48 10.1
Del 1967	20 40 04.199	+18 58 51.43
Her 1934	18 06 05.38	+45 51 02.4
Her 1963	18 12 46.38	+41 50 22.1
Her 1968	16 28 46.8	+21 23 09.
Her 1991	18 44 11.93	+12 10 44.5
Lac 1910	22 33 46.50	+52 27 26.1
Leo 1855	10 21 23.195	+14 15 37.69
Mon 1917	06 20 11.188	−00 19 10.61
Mon 1975	06 20 11.188	−00 19 10.61
Mon 1939	06 41 15.81	−01 58 08.85
Mus 1983	11 49 35.08	−66 55 38.9
Oph 1848	16 56 41.885	−12 48 59.45
Pav 1934	18 38 54.66	−57 33 43.0
Per 1887	01 58 29.305	+56 29 36.8
Per 1901	03 27 47.529	+43 44 04.67
Pic 1925	06 35 09.799	−62 35 49.28
Pup 1942	08 09 52.037	−35 12 04.35
Pyx 1890	09 02 37.185	−32 10 47.60
Pyx 1902	09 02 37.185	−32 10 47.60
Pyx 1920	09 02 37.185	−32 10 47.60
Pyx 1944	09 02 37.185	−32 10 47.60
Pyx 1966	09 02 37.185	−32 10 47.60
Sge 1783	19 30 29.70	+17 38 24.5
Sge 1913	20 05 20.57	+17 33 30.0
Sge 1946	20 05 20.57	+17 33 30.0
Sge 1978	20 05 20.57	+17 33 30.0
Sgr 1960	17 56 42.73	−27 17 39.1

Nova	α_{1950}	δ_{1950}
Sco 1863	16 19 37.49	−17 45 42.9
Sco 1906	16 19 37.49	−17 45 42.9
Sco 1936	16 19 37.49	−17 45 42.9
Sco 1949	17 56 58.18	−39 00 29.3
Sco 1978	16 19 37.49	−17 45 42.9
Sco 1987	16 19 37.49	−17 45 42.9
Ser 1948	15 43 19.76	+14 31 50.3
UMi 1956	16 49 55.77	+77 07 16.2
Vul 1984 #1	19 24 03.442	+27 15 54.50

NSV

NSV	α_{1950}	δ_{1950}	NSV	α_{1950}	δ_{1950}
00025	00 03 26.837	+63 24 05.25	02011	05 26 29.	−03 36 12.
00155	00 21 33.308	+51 44 34.74	02131	05 30 35.612	−01 45 05.11
00212	00 32 40.390	−03 52 04.29	02318	05 32 55.034	−04 52 10.86
00227	00 34 12.186	+33 26 39.75	02320	05 32 55.469	−05 26 50.89
00268	00 40 41.378	+46 45 04.98	02326	05 32 58.911	−05 26 52.21
00337	00 51 26.650	−74 55 23.30	02350	05 33 05.918	−03 17 02.12
00349	00 53 46.	+22 47 00.	02467	05 35 00.528	−05 58 02.16
00425	01 08 14.59	−30 21 56.1	02553	05 38 14.044	−01 58 03.05
00440	01 11 01.311	+24 19 04.65	02556	05 38 18.310	−01 09 12.66
00442	01 11 08.335	+07 18 52.03	02696	05 50 10.984	+27 36 08.48
00525	01 27 12.654	+62 28 03.12	02709	05 51 17.886	−33 48 40.66
00564	01 34 18.2	+07 01 09.	02722	05 51 58.976	+19 44 29.91
00658	01 51 52.340	+20 33 52.09	02792	05 59 37.854	+09 38 56.35
00702	01 59 07.466	+55 23 00.78	02803	06 00 29.692	+19 41 35.51
00761	02 12 07.482	+57 31 52.18	02872	06 10 29.	+45 31 06.
00786	02 16 35.776	+78 40 55.14	02927	06 18 23.546	−30 02 23.86
00812	02 19 46.515	+41 15 10.44	03048	06 34 43.220	+06 10 44.47
00864	02 32 31.00	+03 30 51.9	03271	06 52 10.273	−01 41 31.75
00895	02 39 02.	+43 08 36.	03432	07 07 28.18	+02 59 53.8
00944	02 46 29.840	+17 15 27.29	03528	07 16 38.031	−24 51 42.75
01042	03 03 48.046	+81 16 50.48	03633	07 30 07.	+48 07
01088	03 13 24.143	−09 00 15.50	03775	07 50 17.	−10 35
01173	03 27 54.488	+49 02 24.24	03789	07 50 52.396	−38 43 56.79
01246	03 40 51.035	−09 55 53.05	03867	08 00 00.4	+01 51 38.
01280	03 42 51.373	+22 59 32.97	03930	08 07 56.860	−47 11 49.46
01305	03 44 41.964	+33 26 48.35	04031	08 19 29.490	+45 37 04.05
01397	03 50 58.959	+31 44 12.55	04089	08 25 19.808	−20 40 40.27
01427	03 55 42.825	+35 38 56.50	04194	08 38 32.028	−52 52 36.32
01459	04 03 28.216	+32 15 04.95	04260	08 46 29.67	−44 41 13.3
01534	04 12 45.952	+06 04 37.48	04282	08 49 06.951	−06 59 19.68
01641	04 29 29.79	+17 38 45.2	04696	09 57 13.305	+24 47 36.13
01658	04 32 54.244	+10 03 35.07	04725	10 02 41.299	−12 49 17.50
01725	04 46 03.	+40 25	04829	10 19 21.469	+41 45 06.25
01739	04 47 56.057	+16 07 35.05	04839	10 20 33.038	+65 49 12.47
01742	04 48 32.421	+05 31 16.34	04939	10 39 22.612	−59 24 54.64
01822	05 03 00.214	+41 10 08.38	05089	11 04 18.018	−65 14 21.13
01831	05 04 17.196	−04 43 14.92	05165	11 15 31.120	+31 48 37.87
01849	05 06 34.444	+09 46 01.19	05384	11 52 29.996	+46 45 18.12
01897	05 12 59.466	+45 56 58.04	05434	12 00 21.696	−61 53 48.61
01975	05 23 12.686	+00 28 38.36	05446	12 01 43.859	−62 53 14.26

NSV

NSV	α_{1950}	δ_{1950}	NSV	α_{1950}	δ_{1950}
05454	12 03 12.748	−69 17 41.03	08024	16 50 48.88	−41 45 18.7
05465	12 05 03.135	+26 10 39.81	08383	17 12 01.35	−65 29 42.6
05543	12 16 09.	+40 18 18.	08662	17 23 58.550	−05 02 38.50
05559	12 17 48.976	+26 53 54.44	09167	17 31 26.314	−32 32 56.46
05567	12 18 33.925	+25 59 51.52	09189	17 32 36.697	+12 35 41.94
05570	12 18 52.29	+25 57 08.1	09270	17 34 43.274	−15 22 07.81
05580	12 20 37.805	+26 07 42.83	09501	17 38 03.064	+46 01 55.28
05652	12 27 00.892	+29 47 20.00	10205	18 03 47.520	+79 59 48.27
05679	12 29 16.99	+22 46 51.4	10469	18 13 39.	+39 28
05740	12 32 18.928	+27 06 16.26	11003	18 30 07.65	−23 06 40.4
05745	12 32 35.859	+18 39 07.47	11273	18 41 39.774	+55 29 17.40
05755	12 33 20.65	+23 42 35.7	11280	18 41 58.	−03 03
05855	12 38 40.251	−12 44 26.80	11297	18 42 35.	−03 02 00.
06012	12 50 37.653	−60 05 09.62	11308	18 43 02.931	+37 33 06.40
06044	12 56 03.953	−36 42 19.24	11442	18 49 44.326	+13 54 15.54
06077	13 00 56.027	+36 53 06.23	11504	18 51 58.664	+36 54 29.44
06133	13 09 09.247	−59 39 17.43	11546	18 53 13.	−00 05 24.
06224	13 21 54.916	+55 11 09.46	11659	18 59 13.272	+20 45 37.79
06454	13 46 29.739	−41 26 21.52	11722	19 03 01.336	−19 33 31.11
06546	14 03 01.963	+64 36 51.57	11737	19 03 49.111	−17 10 56.30
06621	14 16 23.969	−13 08 30.89	11839	19 12 03.285	+39 03 32.22
06785	14 42 41.679	−06 31 30.12	11866	19 14 03.958	+21 18 03.00
06998	15 12 53.078	−60 46 24.48	12040	19 24 55.820	+52 20 47.70
07089	15 25 26.995	−09 10 13.82	12133	19 30 42.947	−40 08 37.91
07126	15 30 05.440	−16 41 04.98	12183	19 32 59.586	−24 49 48.90
07270	15 46 29.487	+12 52 32.56	12245	19 36 20.300	+35 44 34.78
07359	15 54 44.832	−20 50 22.85	12436	19 46 56.044	+33 18 40.04
07371	15 55 49.301	−25 58 18.14	12615	19 55 31.	−39 04 06.
07395	15 59 23.458	−62 33 19.62	12795	20 04 04.633	+35 38 38.28
07396	15 59 26.291	+29 59 23.49	12863	20 08 21.611	+36 01 39.80
07424	16 02 31.507	−19 40 12.45	12896	20 10 17.128	+38 12 15.05
07667	16 19 42.738	+19 16 09.32	12944	20 12 39.405	+36 30 28.15
07738	16 25 05.689	−08 15 41.15	12979	20 15 08.535	+37 16 03.40
07778	16 28 04.105	+21 35 50.16	13005	20 17 13.390	+46 09 52.89
07842	16 32 51.149	−42 45 26.77	13007	20 17 16.236	+37 36 41.93
07868	16 35 19.607	−44 03 32.38	13022	20 18 21.26	+21 00 58.5
07956	16 43 45.610	+86 31 58.37	13030	20 18 46.706	+43 41 42.90
08017	16 50 24.570	−41 47 59.48	13040	20 19 38.906	+36 45 36.52
08020	16 50 29.301	−41 38 00.94	13060	20 21 42.289	−56 53 50.02
08022	16 50 39.035	−41 44 39.16	13240	20 39 54.358	+52 24 29.00

NSV	α_{1950}	δ_{1950}	NSV	α_{1950}	δ_{1950}
13337	20 47 21.142	+07 40 37.88			
13388	20 51 28.521	+44 11 49.78			
13518	21 03 06.589	+43 43 39.33			
13543	21 04 39.935	+38 29 59.10			
13640	21 15 26.951	+39 11 03.50			
13646	21 15 56.356	+58 24 03.42			
13708	21 24 17.421	+13 28 14.79			
13904	21 49 43.	+42 55 18.			
13909	21 50 19.323	+55 33 40.38			
13971	21 54 59.023	−59 15 05.97			
14034	22 04 40.836	+25 06 00.71			
14130	22 18 57.330	+46 17 03.55			
14243	22 33 48.436	+49 48 41.23			
14328	22 46 55.5	−27 22 46.			
14343	22 50 34.454	+16 34 31.28			
14354	22 51 57.212	+62 19 49.22			
14371	22 54 44.244	+62 21 26.84			
14513	23 17 48.400	+60 52 33.72			
14569	23 24 42.935	+45 16 50.44			
14717	23 46 05.315	+57 28 15.71			
14773	23 54 36.576	+55 25 39.25			
14788	23 56 13.367	+46 08 05.56			
14793	23 56 44.494	+06 35 11.41			

P	α_{1950}	δ_{1950}
20	00 32 40.390	−03 52 04.29
41	01 44 28.	−10 00 06.
42	01 46 31.80	−21 08 26.7
44	01 47 11.	−19 52 36.
60	02 08 29.42	−63 32 47.8
118	03 49 30.314	−10 40 39.05
125	04 09 46.525	−10 35 43.58
126	04 09 32.95	−71 25 28.9
178	05 14 33.482	+20 04 48.20
266	05 33 03.747	−05 17 54.89
296	05 35 00.528	−05 58 02.16
316	05 38 18.310	−01 09 12.66
432	07 06 10.79	+00 46 35.9
444	07 10 22.20	−25 24 51.8
538	08 16 27.79	−45 14 01.5
543	08 22 18.	−16 14 36.
545	08 22 40.37	−28 39 56.0
566	08 39 36.	−06 33 00.
575	08 46 21.553	−25 58 39.08
578	08 52 35.29	+11 31 12.0
620	09 24 17.66	−13 32 03.3
740	11 22 25.	−35 37 18.
787	12 05 02.	−12 52 48.
804	12 16 09.	+40 18 18.
842	12 35 34.10	−14 43 31.2
866	12 54 11.3	+26 52 55.
1014	15 29 04.	−15 31 00.
1125	16 48 28.679	−37 57 48.92
1199	17 06 31.	−27 14 54.
1255	17 30 19.	−63 00 42.
1270	16 49 05.67	−61 30 14.5
1725	19 01 34.079	−02 06 18.37
1753	19 11 07.	+02 13
1928	19 49 58.	+19 26 54.
1960	19 54 15.	+00 58
2137	20 22 39.93	+17 08 07.0
2329	22 16 40.	−17 08 36.
2350	22 33 09.98	−00 57 03.3
2413	23 44 44.16	−08 21 45.3
2433	00 08 51.66	−11 45 25.3

P	α_{1950}	δ_{1950}
2530	02 01 26.	+23 45 42.
2539	02 12 31.699	+22 20 13.83
2586	03 45 16.	+22 10 12.
2603	04 03 28.216	+32 15 04.95
2607	04 04 33.905	−27 48 06.36
2612	04 09 26.88	−11 55 07.7
2614	04 09 45.	−06 09 12.
2638	04 38 06.	+50 36 54.
2718	05 13 33.09	−28 48 26.8
2780	05 38 45.	+02 35 00.
2807	06 08 17.46	+31 29 36.6
2867	06 33 26.	+07 54 18.
2872	06 34 20.72	+00 04 52.9
2901	06 43 24.	−00 13 42.
2946	06 55 15.	−09 44 00.
3052	07 37 37.	+04 00 00.
3071	07 46 57.45	−23 26 25.2
3077	07 51 29.	+03 46 48.
3098	08 00 00.4	+01 51 38.
3108	08 04 02.833	+02 04 27.19
3125	08 06 32.407	−41 52 58.70
3177	08 24 26.810	+03 40 50.83
3204	08 35 11.61	−47 12 06.2
3239	08 49 56.062	−27 17 41.72
3243	08 52 23.	+06 17 36.
3257	08 56 44.57	−41 36 09.8
3304	09 32 25.	+05 32 36.
3305	09 34 34.79	+56 14 38.5
3333	09 42 33.	−20 40 42.
3373	09 58 55.919	+17 39 03.97
3375	10 00 13.485	+01 20 11.57
3423	10 37 53.919	+13 49 41.65
3452	10 59 34.162	+10 09 53.23
3523	12 03 31.46	−60 58 42.4
3608	13 18 22.400	−60 15 32.94
3639	13 45 18.592	−00 20 44.98
3643	13 46 49.12	+20 26 16.0
3658	13 55 50.215	−01 25 04.50
3683	14 09 45.	−40 07
3697	14 15 00.72	+12 47 57.0

P	α_{1950}	δ_{1950}
4113	16 38 47.763	+00 36 08.38
4357	17 31 26.314	−32 32 56.46
4471	17 52 59.793	−32 28 06.35
4481	17 54 24.291	+04 59 30.82
4489	17 56 40.	−29 33 42.
4492	17 56 31.03	+13 29 59.8
4620	18 03 47.520	+79 59 48.27
4668	18 24 14.0	−12 01 07.
5040	19 28 39.676	−02 12 59.60
5043	19 27 20.	+42 59 24.
5055	19 32 56.560	+05 43 38.20
5111	19 46 11.83	+15 29 44.8
5209	19 51 04.475	+77 36 40.59
5335	20 11 41.158	+26 35 53.27
5349	20 14 56.57	−03 49 11.9
5388	20 21 21.22	+39 00 02.3
5443	20 37 16.454	+14 15 05.69
5444	20 35 42.	+50 06 00.
5462	20 44 12.00	+28 04 40.8
5513	21 03 45.	+00 43
5556	21 12 40.	+13 51 36.
5617	21 37 34.126	+08 57 26.46
5682	22 27 27.805	+64 59 11.40
5803	23 53 02.700	+57 08 02.20

S	α_{1950}	δ_{1950}
3294	14 33 17.76	−64 32 24.3
3322	22 06 56.98	−27 18 48.5
3330	00 45 59.	+56 36 36.
3343	01 07 05.425	+59 48 38.70
3370	02 22 25.963	+55 52 40.13
3446	07 28 58.61	−10 15 24.5
3683	19 49 30.7	+23 45 30.
3808	18 33 31.325	+38 17 34.45
3813	19 48 13.695	+58 24 21.60
3814	19 55 47.054	+54 39 50.45
3883	01 27 48.500	+57 38 48.20
3903	04 33 34.82	+44 06 39.6
3946	05 44 33.325	+28 34 11.05
3953	05 55 42.40	+27 04 29.9
4082	07 50 17.	−10 35
4101	07 50 03.54	−26 36 33.2
4206	18 06 50.	+01 22 36.
4217	18 12 44.	+06 47
4247	18 06 28.	+38 47
4524	20 25 34.760	+43 31 25.75
4530	20 45 20.750	+41 44 22.30
4556	21 32 59.435	+40 26 54.20
4558	21 33 54.	+40 12
4671	00 12 06.	+54 23
4704	00 17 52.099	+39 56 57.05
4724	03 56 06.773	+48 00 36.22
4727	06 15 16.	+49 44
4746	08 04 16.873	+41 56 47.10
4751	08 58 58.19	+26 53 17.9
4758	09 43 56.	+45 59 48.
4759	09 46 49.54	+34 41 16.9
4780	19 21 23.12	+48 06 18.6
4812	03 05 40.	−56 19 36.
4822	03 47 28.63	−42 45 59.0
4832	04 12 47.27	−46 34 30.2
4876	07 15 47.	−40 02 12.
4884	07 32 17.93	−50 00 49.0
4893	08 08 49.94	−76 23 11.6
4907	08 56 44.57	−41 36 09.8
4956	12 02 14.82	−72 35 28.8

S

S	α_{1950}	δ_{1950}
4963	12 56 03.953	−36 42 19.24
4973	13 36 22.63	−44 50 41.2
4995	14 34 41.5	−38 37 43.
4998	14 39 23.	−40 14 36.
5001	14 56 35.57	−42 47 02.9
5005	15 09 40.88	−64 54 31.0
5110	20 31 51.01	−48 29 40.6
5119	20 51 17.391	−45 55 16.81
5120	20 53 50.503	−70 36 57.94
5146	22 36 25.47	−47 08 05.6
5150	22 44 18.21	−43 00 29.1
5420	06 12 33.75	+28 36 10.3
5423	06 44 25.77	+28 09 42.5
5496	15 07 06.38	−79 20 04.4
5527	15 41 04.05	−73 17 56.2
5612	16 47 54.51	−73 57 53.2
5864	16 39 45.	−56 46 36.
5877	16 40 59.	−54 53 42.
5884	16 42 01.	−61 20 48.
5900	16 43 25.	−55 18 36.
5931	16 47 58.531	−57 10 41.04
6302	10 05 16.87	−69 59 25.5
6498	22 41 50.50	−48 25 59.4
6520	23 02 12.12	−44 12 21.1
6576	14 27 42.	−25 39 24.
6732	04 43 32.82	−76 42 18.8
6749	20 29 43.09	−45 36 15.9
6888	20 24 54.	−52 28 24.
6899	20 29 46.	−56 44 00.
7007	19 43 07.68	−71 08 59.8
7057	20 18 07.63	−73 52 00.1
7103	20 59 25.	−75 33 18.
7148	01 14 22.35	−39 58 21.6
7172	01 40 22.	−46 12 00.
7177	01 48 22.38	−47 13 18.3
7273	19 55 31.	−39 04 06.
7643	17 33 50.722	−56 47 28.93
7738	11 01 35.61	+45 19 26.4
7742	11 08 30.	+46 42
7763	11 41 27.	+23 37

S

S	α_{1950}	δ_{1950}
7854	19 59 50.680	+56 48 12.5
8029	11 42 57.	+25 03
8060	12 26 15.	+22 00
8489	12 09 34.53	+22 48 38.0
8561	04 24 18.46	+52 56 07.8
9108	21 05 44.	+37 01 54.
9160	02 46 48.	+37 27
9178	03 12 21.	+42 16
9180	03 19 39.	+41 27
9382	19 21 30.265	+52 38 08.10
9505	01 09 09.495	+35 01 31.19
9508	01 12 42.085	+37 21 46.02
9712	23 01 34.91	+53 01 04.5
9789	16 35 39.	+08 43
10066	20 34 36.	+12 53
10154	03 06 51.669	+42 40 49.58
10376	16 28 46.8	+21 23 09.
10422	18 06 48.	+34 25
10425	18 13 39.	+39 28
10436	18 19 31.575	+38 46 13.75
10453	00 49 24.795	+53 35 26.75
10777	00 38 10.	+43 07
10795	05 35 47.963	+26 17 18.02
10796	20 18 46.789	+62 05 53.62
10913	02 00 59.	+32 36
10919	02 16 35.	+32 02

S

S	α_{1950}	δ_{1950}

SAO

SAO	α_{1950}	δ_{1950}	SAO	α_{1950}	δ_{1950}
000168	00 57 44.960	+81 36 24.67	013298	04 49 03.825	+66 15 38.64
000500	03 03 48.046	+81 16 50.48	013951	06 41 58.360	+69 40 59.44
001038	06 30 36.832	+82 18 46.74	014819	09 10 24.611	+61 37 51.35
002067	12 38 26.304	+83 55 05.57	014934	09 32 20.399	+69 51 40.75
002101	12 48 38.683	+83 41 22.40	015163	10 20 33.038	+65 49 12.47
002692	16 21 10.745	+86 19 22.67	015243	10 35 04.695	+60 23 14.87
002753	16 43 45.610	+86 31 58.37	015379	11 00 17.684	+61 55 28.35
002770	16 51 00.905	+82 07 21.54	015716	12 04 38.357	+69 21 14.88
003675	22 00 13.572	+82 37 51.47	015816	12 27 55.874	+69 28 40.81
004216	00 42 18.429	+74 42 54.68	016273	14 03 01.963	+64 36 51.57
004226	00 44 23.261	+74 34 30.08	016453	14 37 56.367	+64 30 23.09
004592	02 06 41.399	+79 27 28.93	016606	15 06 52.873	+63 18 26.92
005238	04 27 40.895	+72 25 26.83	016635	15 10 50.422	+62 02 48.65
006592	08 31 02.587	+74 53 49.46	016636	15 10 50.660	+62 02 32.88
006897	09 30 05.838	+70 03 06.47	016767	15 33 07.055	+64 04 22.39
007522	12 09 52.843	+77 53 38.20	017570	17 36 56.075	+68 24 36.07
007533	12 13 21.404	+72 49 45.35	017576	17 37 14.348	+68 46 52.48
007593	12 31 21.550	+70 03 48.96	018807	20 18 46.789	+62 05 53.62
008651	16 54 27.262	+75 28 20.36	019169	21 03 05.034	+63 10 47.34
008994	18 03 47.520	+79 59 48.27	019313	21 18 19.996	+64 39 34.13
009084	18 21 28.502	+71 18 42.09	019665	21 47 58.623	+66 33 33.04
009250	18 47 59.715	+75 22 33.84	019718	21 52 21.867	+62 22 39.81
009710	20 17 16.981	+76 39 10.91	019760	21 55 54.364	+65 55 02.03
009828	20 38 02.972	+75 24 57.96	020141	22 30 50.559	+66 53 34.27
010057	21 28 01.326	+70 20 27.85	020247	22 46 03.889	+64 47 52.45
010069	21 30 21.043	+70 36 07.09	020299	22 51 18.386	+61 52 46.53
010697	23 17 50.188	+78 43 43.62	020305	22 51 57.212	+62 19 49.22
010879	23 49 57.039	+75 15 57.16	020334	22 54 44.244	+62 21 26.84
010973	00 03 26.837	+63 24 05.25	020345	22 55 59.145	+68 08 22.09
011092	00 15 34.860	+61 26 58.48	020351	22 56 41.180	+62 48 32.58
011484	00 53 45.153	+60 05 33.50	020358	22 57 43.186	+62 30 32.18
011652	01 11 34.092	+60 40 30.80	020381	23 00 04.241	+62 14 34.90
012277	02 21 54.217	+61 19 28.35	020390	23 01 01.330	+63 25 43.62
012326	02 28 54.018	+61 14 08.89	020401	23 02 01.066	+63 07 37.84
012388	02 37 34.612	+60 20 23.07	020531	23 14 17.395	+61 41 23.90
012421	02 40 29.543	+67 36 50.37	020562	23 17 48.400	+60 52 33.72
012431	02 41 44.344	+65 30 58.93	021085	00 03 37.946	+58 09 29.61
012445	02 44 22.790	+69 25 33.10	021133	00 06 29.735	+58 52 26.77
012477	02 48 14.963	+62 34 39.82	021273	00 15 03.362	+51 09 19.72
013030	04 03 23.893	+62 11 59.14	021296	00 16 36.071	+58 51 41.93

SAO

SAO	α_{1950}	δ_{1950}	SAO	α_{1950}	δ_{1950}
021366	00 21 33.308	+51 44 34.74	031119	18 41 39.774	+55 29 17.40
021646	00 39 48.850	+52 03 48.22	031165	18 45 35.976	+52 55 56.41
021732	00 46 03.907	+57 33 02.76	031377	19 04 08.645	+57 02 50.63
022364	01 28 56.492	+53 45 43.33	031850	19 37 33.728	+54 51 21.44
022554	01 40 30.757	+50 26 15.92	032137	19 55 47.054	+54 39 50.45
022690	01 48 41.291	+54 54 02.85	033196	21 09 32.920	+55 07 36.53
022696	01 48 57.679	+50 32 47.91	033288	21 15 56.356	+58 24 03.42
022753	01 52 15.745	+59 01 44.03	033318	21 17 52.610	+58 24 41.39
022862	01 59 07.466	+55 23 00.78	033626	21 37 24.390	+57 15 44.56
023094	02 12 07.482	+57 31 52.18	033665	21 40 18.925	+50 57 39.10
023102	02 12 32.399	+57 30 47.09	033744	21 44 45.358	+56 41 07.57
023138	02 14 16.084	+56 24 38.60	033819	21 50 19.323	+55 33 40.38
023229	02 17 45.610	+54 16 54.43	033990	22 00 23.540	+57 45 30.82
023321	02 22 25.963	+55 52 40.13	034301	22 16 54.536	+55 52 29.89
023353	02 24 29.671	+50 20 51.62	034301	22 16 54.536	+55 52 29.89
023526	02 37 32.967	+56 31 00.34	034349	22 19 16.829	+55 17 55.60
023662	02 47 59.551	+58 06 32.59	034499	22 27 02.414	+56 20 49.40
023874	03 08 36.873	+59 43 56.04	034506	22 27 17.496	+58 08 51.88
023886	03 10 07.368	+59 22 38.39	034622	22 34 56.770	+56 38 45.88
023944	03 15 03.309	+50 02 26.55	034810	22 44 54.272	+57 49 13.60
024314	03 52 52.755	+50 33 09.32	034822	22 45 19.108	+58 13 30.10
024324	03 54 45.698	+53 50 46.90	035478	23 27 42.766	+58 16 23.18
024531	04 14 28.414	+50 10 29.09	035899	23 53 02.700	+57 08 02.20
024929	04 53 16.202	+53 40 27.79	035917	23 54 36.576	+55 25 39.25
025447	05 50 28.973	+59 52 47.21	036390	00 25 31.854	+44 07 05.34
025681	06 17 42.423	+53 28 28.35	036504	00 33 30.247	+48 16 50.29
025731	06 22 12.642	+56 18 51.33	036602	00 40 41.378	+46 45 04.98
026311	07 18 47.691	+55 22 40.73	036620	00 41 55.654	+48 00 40.00
027136	09 05 21.304	+51 48 28.45	036699	00 47 02.830	+40 48 25.23
027143	09 06 18.413	+54 41 39.96	036817	00 55 51.685	+46 46 01.03
027364	09 40 15.413	+56 10 56.29	037155	01 19 23.103	+45 16 02.87
027566	10 10 33.128	+50 44 39.95	037653	01 54 53.749	+41 27 05.29
027758	10 42 52.674	+57 11 02.14	037735	02 00 49.974	+42 05 31.16
028572	12 54 06.309	+54 22 10.96	037805	02 05 59.297	+40 33 28.73
028737	13 21 54.916	+55 11 09.46	037987	02 19 46.515	+41 15 10.44
029765	16 00 56.829	+58 41 53.69	038304	02 42 19.639	+47 56 01.86
030164	16 55 08.726	+52 46 31.80	038592	03 04 54.356	+40 45 52.46
030366	17 22 30.540	+57 03 22.66	038830	03 23 07.509	+40 17 02.83
030836	18 13 48.337	+56 34 13.96	038847	03 24 24.530	+47 33 47.66
031048	18 32 44.674	+51 40 59.90	038849	03 24 29.041	+48 53 24.91

SAO

SAO	α_{1950}	δ_{1950}
038906	03 27 54.488	+49 02 24.24
039231	03 56 06.773	+48 00 36.22
039336	04 05 01.311	+47 34 51.78
040003	05 01 32.952	+41 13 13.94
040026	05 03 00.214	+41 10 08.38
040094	05 08 10.174	+42 06 18.30
040167	05 11 47.306	+46 21 00.58
040186	05 12 59.466	+45 56 58.04
040269	05 18 15.839	+41 45 24.49
040544	05 38 43.987	+43 02 09.84
040615	05 44 51.095	+43 03 59.45
040750	05 55 51.579	+44 56 40.69
042099	07 55 05.688	+43 38 23.87
042180	08 04 16.873	+41 56 47.10
042321	08 19 29.490	+45 37 04.05
042790	09 14 10.453	+47 01 37.03
042826	09 19 17.443	+40 25 11.74
042932	09 32 15.317	+40 11 12.01
043115	09 54 37.760	+41 17 40.83
043310	10 19 21.469	+41 45 06.25
043460	10 42 24.406	+45 49 45.79
043512	10 51 06.527	+43 27 23.92
043789	11 28 07.900	+41 33 50.35
043945	11 52 29.996	+46 45 18.12
044828	13 57 02.939	+41 03 41.76
045231	14 47 59.571	+48 55 35.48
045269	14 52 37.580	+45 30 00.71
045357	15 02 08.190	+47 50 53.10
046664	17 20 05.060	+40 01 22.05
046872	17 38 03.064	+46 01 55.28
046954	17 45 47.382	+47 37 42.95
047139	17 59 41.017	+45 21 00.49
047430	18 20 50.701	+47 32 32.22
047811	18 46 12.064	+49 22 32.22
048084	19 04 39.741	+41 20 07.47
048190	19 10 37.590	+46 14 17.65
048466	19 25 57.738	+41 35 55.19
048892	19 48 54.286	+40 28 17.88
048917	19 50 28.606	+46 53 51.46
049029	19 56 11.328	+43 11 40.30
049314	20 10 31.573	+47 35 10.07
049462	20 17 13.390	+46 09 52.89
049467	20 17 35.404	+40 43 47.71
049491	20 18 46.706	+43 41 42.90
049772	20 31 07.830	+43 01 13.37
049795	20 31 58.405	+45 00 11.99
049941	20 39 43.539	+45 06 03.12
050180	20 51 28.521	+44 11 49.78
050263	20 54 48.837	+44 43 53.95
050303	20 56 39.840	+41 44 42.75
050335	20 58 07.395	+47 19 30.08
050359	20 59 26.089	+45 57 31.22
050411	21 02 08.677	+46 07 52.41
050424	21 03 06.589	+43 43 39.33
050476	21 05 39.353	+47 04 30.65
050479	21 05 58.573	+48 39 11.34
050690	21 16 35.137	+43 44 05.12
050739	21 19 04.079	+40 08 05.80
051207	21 40 22.030	+40 50 52.85
051293	21 44 56.560	+49 04 39.35
051509	21 57 00.294	+47 44 36.86
051531	21 58 03.584	+44 18 41.90
051645	22 03 53.289	+47 59 15.34
051684	22 06 39.437	+45 29 45.72
051904	22 18 57.330	+46 17 03.55
052073	22 28 02.776	+49 06 00.43
052171	22 33 48.436	+49 48 41.23
052412	22 48 06.137	+41 41 17.91
052512	22 54 06.327	+41 20 11.95
052609	22 59 36.882	+42 03 25.50
052701	23 04 51.062	+49 55 18.26
052707	23 05 00.316	+45 47 51.23
052753	23 07 39.187	+47 41 13.25
052881	23 16 00.611	+41 30 01.40
053204	23 35 06.520	+46 11 13.83
053540	23 56 13.367	+46 08 05.56
053870	00 22 01.773	+31 05 46.92
054033	00 34 12.186	+33 26 39.75
054374	01 00 04.351	+31 32 10.53
054514	01 10 06.406	+31 48 38.37

SAO

SAO	α_{1950}	δ_{1950}
054655	01 20 48.441	+37 27 16.30
055306	02 06 33.579	+34 45 06.52
055347	02 09 27.778	+30 04 10.44
055347	02 09 27.868	+30 04 14.14
055420	02 13 59.587	+33 59 47.81
055715	02 34 12.057	+39 40 47.31
055899	02 45 42.348	+30 54 36.28
056296	03 12 53.372	+34 30 18.42
056538	03 30 16.731	+39 43 57.63
056559	03 31 53.836	+31 51 04.16
056673	03 41 10.603	+32 07 53.49
056709	03 44 41.964	+33 26 48.35
056727	03 46 22.636	+32 56 23.13
056799	03 50 58.959	+31 44 12.55
056840	03 54 29.432	+39 52 02.54
056856	03 55 42.825	+35 38 56.50
056968	04 03 28.216	+32 15 04.95
056973	04 03 43.447	+33 18 46.44
056982	04 04 13.992	+37 56 41.15
057444	04 46 04.700	+32 30 08.81
057690	05 06 14.762	+39 31 25.41
057799	05 12 08.799	+32 37 54.05
057857	05 14 58.535	+36 34 47.04
057858	05 15 01.293	+33 42 55.62
058059	05 24 32.790	+34 44 31.22
058105	05 26 21.969	+35 20 10.96
058352	05 39 08.717	+36 10 36.86
058749	06 03 08.245	+38 29 20.96
058782	06 05 08.698	+35 08 56.35
059194	06 29 11.433	+32 29 32.59
060198	07 31 24.635	+31 59 57.61
060198	07 31 24.673	+32 00 00.53
060199	07 31 26.235	+31 58 50.36
061222	09 00 13.775	+38 17 47.88
061570	09 31 09.969	+36 37 14.38
061586	09 32 39.994	+36 02 14.94
062178	10 36 16.459	+38 10 16.49
062485	11 15 31.120	+31 48 37.87
062491	11 16 24.722	+38 27 36.38
062579	11 27 25.619	+30 14 35.79
063135	12 38 40.927	+30 42 39.76
063177	12 42 37.629	+39 33 00.75
063623	13 32 33.917	+37 26 16.62
063733	13 43 58.759	+31 08 52.49
064053	14 15 52.952	+35 44 21.87
064240	14 35 05.785	+36 08 45.77
064619	15 16 08.916	+31 49 43.37
064630	15 17 28.967	+32 41 42.37
064834	15 37 29.590	+36 47 49.58
065057	16 02 19.537	+34 18 51.32
065165	16 12 48.252	+33 59 02.62
065380	16 31 32.105	+30 36 09.91
065716	16 58 22.471	+30 59 55.92
065913	17 15 28.612	+33 09 10.07
066054	17 24 58.263	+34 44 11.51
067321	18 43 02.931	+37 33 06.40
067451	18 48 13.936	+33 18 12.51
067453	18 48 15.823	+33 17 33.39
067537	18 51 58.664	+36 54 29.44
067642	18 56 19.140	+38 11 50.84
067835	19 05 31.990	+32 25 18.48
067836	19 05 35.458	+30 10 23.75
067846	19 06 05.367	+38 50 52.85
068010	19 12 03.285	+39 03 32.22
068129	19 17 15.486	+37 21 07.30
068301	19 24 20.981	+36 12 59.47
068895	19 46 56.044	+33 18 40.04
069181	19 56 28.879	+35 03 54.77
069231	19 58 05.074	+36 54 16.84
069381	20 03 29.484	+31 49 40.28
069402	20 04 04.633	+35 38 38.28
069410	20 04 16.624	+35 14 29.31
069422	20 04 42.130	+35 35 44.25
069446	20 05 30.742	+35 34 20.72
069498	20 06 54.984	+37 05 23.35
069504	20 07 05.122	+30 24 10.57
069512	20 07 20.809	+35 20 10.51
069541	20 08 21.611	+36 01 39.80
069592	20 10 17.128	+38 12 15.05
069677	20 12 39.405	+36 30 28.15

SAO

SAO	α_{1900}	δ_{1900}	SAO	α_{1900}	δ_{1900}
069755	20 15 08.535	+37 16 03.40	076199	03 44 30.424	+23 57 07.57
069765	20 15 37.961	+37 09 09.05	076200	03 44 30.587	+24 08 07.14
069812	20 16 53.877	+36 10 59.54	076343	03 54 05.621	+23 01 55.17
069824	20 17 16.236	+37 36 41.93	076418	04 00 49.539	+27 59 22.76
069833	20 17 42.595	+38 34 24.27	076455	04 03 32.054	+27 27 59.58
069836	20 17 48.291	+38 10 39.06	076548	04 16 28.992	+21 01 22.50
069888	20 19 27.930	+30 25 47.38	076672	04 33 41.765	+27 02 01.03
070181	20 31 03.680	+31 29 08.84	076680	04 35 18.604	+20 35 09.65
070203	20 31 57.382	+35 04 43.09	076868	04 55 49.751	+24 25 14.37
070279	20 35 23.125	+35 15 39.14	076974	05 05 03.646	+24 12 02.80
070590	20 49 35.426	+37 48 03.70	077084	05 14 33.482	+20 04 48.20
070599	20 50 03.571	+34 28 07.77	077121	05 17 50.783	+27 54 30.55
070919	21 04 39.935	+38 29 59.10	077124	05 18 01.655	+29 31 15.77
070968	21 06 31.463	+30 00 09.40	077285	05 32 23.746	+24 00 29.86
071165	21 15 26.951	+39 11 03.50	077336	05 34 39.263	+21 06 50.00
071237	21 19 15.420	+32 23 58.16	077348	05 35 47.963	+26 17 18.02
071239	21 19 20.496	+35 31 22.15	077354	05 36 07.380	+29 11 17.37
071307	21 22 54.511	+33 28 17.54	077360	05 36 38.143	+25 52 15.31
071358	21 25 18.865	+36 53 54.87	077615	05 47 05.750	+26 56 58.03
072569	22 36 48.620	+37 06 53.25	077675	05 50 10.984	+27 36 08.48
072820	22 51 22.571	+37 40 18.88	077915	06 01 04.774	+23 16 04.51
073069	23 09 08.593	+36 37 19.07	078198	06 15 22.778	+23 35 30.97
073223	23 21 19.723	+32 15 22.09	078596	06 36 27.466	+24 38 41.02
073306	23 27 57.591	+30 33 22.27	079403	07 24 46.351	+21 32 56.88
073765	00 05 47.841	+28 48 52.12	079638	07 40 11.374	+29 00 22.23
073938	00 20 12.269	+29 10 38.27	080659	09 05 51.076	+26 50 13.96
074267	00 44 40.968	+23 59 43.95	080992	09 41 19.491	+25 35 02.80
074707	01 22 51.423	+23 15 07.42	081035	09 47 02.359	+21 24 48.04
074770	01 28 59.864	+22 29 03.90	081134	09 57 13.305	+24 47 36.13
074870	01 38 30.650	+25 29 38.52	081639	10 59 57.200	+22 14 13.72
074996	01 50 13.440	+29 20 10.14	082250	12 17 48.976	+26 53 54.44
075012	01 51 52.340	+20 33 52.09	082261	12 18 33.925	+25 59 51.52
075082	01 57 42.427	+27 38 50.46	082280	12 20 37.805	+26 07 42.83
075146	02 03 45.702	+22 24 39.13	082295	12 22 31.887	+25 50 15.38
075471	02 34 07.128	+24 25 50.90	082333	12 26 57.037	+24 23 06.37
075927	03 23 33.019	+28 32 32.53	082388	12 32 18.928	+27 06 16.26
076031	03 34 10.194	+25 49 51.24	082867	13 28 24.772	+24 29 25.23
076073	03 37 46.777	+25 10 09.75	082993	13 44 23.997	+25 57 08.51
076131	03 41 54.055	+23 57 27.82	083080	13 53 51.820	+26 09 46.07
076156	03 42 51.373	+22 59 32.97	083203	14 08 07.066	+25 19 39.84

SAO

SAO	α_{1900}	δ_{1900}	SAO	α_{1900}	δ_{1900}
083421	14 32 58.282	+24 51 25.62	090999	23 03 02.596	+24 22 58.66
083893	15 32 34.145	+26 52 54.75	091141	23 14 26.026	+25 26 46.28
083931	15 37 12.527	+29 47 00.77	091405	23 36 59.446	+27 57 58.55
084019	15 47 29.713	+26 13 13.16	091578	23 52 29.081	+28 21 17.88
084152	15 59 26.291	+29 59 23.49	091772	00 09 54.612	+14 17 11.48
084411	16 28 04.105	+21 35 50.16	091781	00 10 39.447	+14 54 20.57
084543	16 39 34.863	+27 00 42.82	092099	00 46 20.792	+16 40 15.74
084759	16 58 58.842	+21 34 11.44	092801	02 05 00.932	+17 47 32.20
085095	17 24 39.539	+20 07 19.95	092905	02 19 47.680	+16 38 35.41
085672	18 00 14.676	+20 49 55.39	092998	02 30 09.520	+14 48 52.07
085723	18 03 42.272	+21 26 26.17	093127	02 46 29.840	+17 15 27.29
085723	18 03 42.272	+21 26 26.17	093719	03 57 54.378	+12 21 02.13
085767	18 06 19.888	+29 40 57.54	093878	04 18 03.740	+13 44 47.42
085956	18 19 01.374	+29 50 01.63	093892	04 19 14.250	+13 57 38.10
086043	18 24 02.968	+29 47 56.13	093896	04 19 53.799	+14 56 25.18
086462	18 47 11.007	+24 59 18.60	093900	04 20 32.670	+16 39 43.80
086497	18 48 45.961	+24 39 36.06	093943	04 24 42.955	+11 06 05.36
086521	18 50 08.196	+21 21 48.31	093957	04 25 48.214	+15 45 41.88
086544	18 51 21.765	+24 12 54.00	093968	04 26 57.746	+10 24 48.13
086592	18 53 47.211	+23 29 40.63	094023	04 32 46.804	+11 59 55.97
086704	18 59 13.272	+20 45 37.79	094026	04 32 54.244	+10 03 35.07
087005	19 13 55.995	+27 21 59.40	094162	04 47 56.057	+16 07 35.05
087010	19 14 03.958	+21 18 03.00	094986	05 51 58.976	+19 44 29.91
087035	19 15 32.192	+22 20 59.99	095025	05 53 57.266	+16 20 58.38
087113	19 19 35.300	+25 28 44.08	095166	06 00 29.692	+19 41 35.51
087813	19 48 54.847	+22 28 53.89	095259	06 04 42.949	+14 46 34.32
087898	19 51 50.368	+23 25 58.09	095362	06 09 05.753	+14 13 18.68
088295	20 08 28.223	+26 45 17.59	095365	06 09 10.198	+16 08 37.04
088380	20 11 41.158	+26 35 53.27	095419	06 11 33.303	+17 55 20.05
088648	20 22 58.190	+21 19 29.54	095677	06 23 14.318	+18 47 20.98
089396	21 00 16.464	+27 36 33.50	095766	06 28 22.604	+11 17 15.24
089680	21 21 53.419	+25 05 48.62	095912	06 34 49.396	+16 26 37.40
089815	21 33 05.963	+27 58 27.11	098378	09 05 02.414	+10 52 14.13
089944	21 42 05.932	+28 33 07.71	098709	09 38 29.008	+10 07 14.64
089949	21 42 22.714	+25 24 51.41	098794	09 47 08.650	+11 20 27.63
090040	21 47 37.796	+29 56 26.28	098876	09 55 32.100	+12 41 03.03
090075	21 50 47.084	+25 41 20.87	098895	09 58 01.841	+18 06 11.91
090238	22 04 40.836	+25 06 00.71	099222	10 35 40.955	+14 31 39.89
090381	22 14 18.976	+22 38 47.51	099244	10 37 53.919	+13 49 41.65
090568	22 29 15.036	+29 17 08.97	099413	10 59 34.162	+10 09 53.23

SAO

SAO	α_{1950}	δ_{1950}
099673	11 32 06.389	+17 04 23.44
099812	11 46 39.843	+16 31 18.60
099869	11 53 06.284	+15 55 30.08
099908	11 58 29.742	+13 17 13.09
100003	12 11 47.877	+12 05 54.90
100159	12 32 35.859	+18 39 07.47
101250	14 49 04.800	+19 18 24.60
101753	15 46 29.487	+12 52 32.56
101919	16 03 32.437	+10 49 11.39
102107	16 19 42.738	+19 16 09.32
102259	16 33 11.685	+17 09 32.66
102273	16 34 40.598	+14 34 30.70
102464	16 52 08.612	+16 55 02.73
102474	16 52 57.654	+13 41 57.63
102668	17 11 43.180	+16 24 27.89
102897	17 29 55.112	+11 57 53.52
102932	17 32 36.697	+12 35 41.94
103069	17 42 00.614	+14 25 48.97
103254	17 55 51.349	+15 08 31.12
103766	18 26 52.942	+10 51 28.93
103793	18 28 20.265	+12 34 31.12
104196	18 49 44.326	+13 54 15.54
104488	19 04 37.292	+10 59 34.00
104524	19 06 25.899	+16 46 18.21
104707	19 16 30.078	+16 23 45.50
104711	19 16 37.017	+19 31 04.26
104797	19 22 07.267	+16 50 20.28
105132	19 38 46.581	+13 41 53.48
105438	19 53 52.132	+11 17 22.86
105560	19 59 03.538	+10 36 33.14
105774	20 07 35.981	+10 12 05.66
106322	20 35 25.553	+11 12 07.03
106356	20 37 16.454	+14 15 05.69
106694	20 54 53.056	+19 27 18.84
107015	21 16 09.806	+11 21 30.02
107061	21 18 55.406	+10 07 10.24
107139	21 24 17.421	+13 28 14.79
107436	21 48 36.187	+12 23 27.65
108231	22 50 34.454	+16 34 31.28
108667	23 29 43.239	+14 41 35.02

SAO

SAO	α_{1950}	δ_{1950}
108732	23 35 25.105	+18 07 24.38
108933	23 55 25.150	+15 40 30.80
109088	00 12 24.138	+08 32 35.70
109740	01 11 08.335	+07 18 52.03
109778	01 14 18.536	+06 32 52.97
109822	01 18 26.843	+07 20 38.93
109840	01 20 16.664	+00 27 16.10
111195	03 24 27.329	+09 33 35.17
111291	03 34 13.130	+00 25 32.96
111400	03 43 00.821	+05 53 41.52
111695	04 12 45.952	+06 04 37.48
111800	04 22 04.193	+04 35 09.36
111940	04 35 12.600	+07 13 06.78
112142	04 48 32.421	+05 31 16.34
112197	04 51 38.661	+02 21 37.24
112206	04 52 16.487	+00 23 15.42
112298	04 57 30.816	+03 12 48.15
112467	05 06 34.444	+09 46 01.19
112667	05 19 00.088	+08 22 50.64
112752	05 23 12.686	+00 28 38.36
112775	05 24 12.930	+03 03 14.26
112781	05 24 30.136	+03 48 51.27
112849	05 28 06.416	+05 54 41.79
112966	05 34 35.124	+08 55 22.13
113315	05 55 48.526	+01 50 01.00
113389	05 59 37.852	+09 38 56.27
113389	05 59 37.854	+09 38 56.35
113810	06 21 07.050	+04 37 11.68
114140	06 34 29.664	+06 06 08.90
114146	06 34 43.220	+06 10 44.47
114241	06 37 43.434	+09 51 54.72
114246	06 37 53.245	+09 50 06.93
114378	06 43 13.331	+02 33 11.10
114388	06 43 48.773	+08 38 30.21
115456	07 24 26.357	+08 23 29.89
116352	08 04 02.833	+02 04 27.19
116929	08 33 11.523	+06 47 45.07
117146	08 45 47.114	+06 01 24.82
117212	08 49 35.089	+08 15 18.27
117871	09 40 51.573	+02 51 25.03

SAO

SAO	α_{1950}	δ_{1950}
117937	09 47 53.998	+04 34 42.92
118380	10 32 24.801	+08 54 33.57
118649	11 02 29.464	+05 25 21.48
119959	13 27 14.065	+01 21 16.65
120102	13 43 36.039	+05 21 56.68
120544	14 32 36.509	+09 19 58.50
121361	16 03 12.539	+08 13 50.63
121568	16 21 44.526	+07 03 44.55
121784	16 38 47.763	+00 36 08.38
122056	17 02 43.918	+00 46 28.23
122226	17 13 59.357	+01 15 53.07
122381	17 23 54.053	+07 38 17.03
122716	17 43 29.945	+05 42 47.12
122725	17 43 43.758	+05 40 35.84
122738	17 44 19.434	+05 34 57.41
122742	17 44 35.061	+05 42 33.23
122776	17 46 16.265	+05 42 59.48
122946	17 54 24.291	+04 59 30.82
123090	18 02 05.802	+01 54 53.89
123183	18 06 58.344	+09 08 27.59
123497	18 24 38.902	+00 09 53.73
123516	18 25 32.158	+06 09 43.34
124049	18 53 00.002	+09 16 53.30
124055	18 53 13.166	+00 11 58.95
124246	19 02 45.622	+09 33 55.90
124824	19 32 56.560	+05 43 38.20
124903	19 36 43.539	+05 16 56.69
125084	19 45 48.361	+09 11 01.76
125116	19 47 51.889	+07 46 29.79
126265	20 47 21.142	+07 40 37.88
126399	20 54 43.193	+04 53 13.36
126402	20 54 49.875	+05 37 15.97
126429	20 56 34.570	+04 06 02.09
126971	21 37 34.126	+08 57 26.46
127380	22 10 54.207	+08 10 38.36
128041	23 10 50.577	+02 24 09.70
128513	23 56 44.494	+06 35 11.41
128572	00 02 46.530	−05 59 13.96
128839	00 32 40.390	−03 52 04.29
130387	03 13 24.143	−09 00 15.50

SAO

SAO	α_{1950}	δ_{1950}
130564	03 30 34.355	−09 37 34.76
130686	03 40 51.035	−09 55 53.05
130994	04 07 15.207	−08 01 27.35
131132	04 18 17.198	−07 42 38.65
131468	04 42 59.993	−03 20 41.33
131777	05 04 17.196	−04 43 14.92
131854	05 08 50.595	−08 36 59.85
131983	05 17 03.159	−01 27 44.10
132024	05 18 58.611	−00 27 52.47
132032	05 19 27.985	−03 00 40.49
132071	05 21 57.674	−02 26 29.65
132088	05 23 04.494	−01 32 03.78
132116	05 24 28.143	−02 24 07.49
132220	05 29 27.017	−00 20 04.41
132221	05 29 26.996	−00 19 11.93
132247	05 30 35.612	−01 45 05.11
132255	05 30 59.063	−01 11 23.03
132255	05 30 59.063	−01 11 23.03
132269	05 31 31.369	−01 04 07.23
132305	05 32 39.920	−00 46 01.02
132317	05 32 53.307	−04 31 30.89
132320	05 32 55.034	−04 52 10.86
132321	05 32 55.469	−05 26 50.89
132322	05 32 58.911	−05 26 52.21
132323	05 32 59.126	−05 56 28.26
132328	05 33 03.747	−05 17 54.89
132332	05 33 05.918	−03 17 02.12
132346	05 33 40.476	−01 13 56.30
132375	05 35 00.528	−05 58 02.16
132408	05 36 16.398	−02 37 17.58
132444	05 38 14.044	−01 58 03.05
132445	05 38 18.310	−01 09 12.66
132715	05 56 41.770	−09 33 36.62
133114	06 17 18.205	−07 48 01.79
133189	06 20 31.535	−03 15 01.97
133881	06 52 10.273	−01 41 31.75
134061	06 58 56.773	−03 02 43.49
135216	07 50 49.059	−02 54 40.73
135380	07 58 40.698	−01 15 08.75
135392	07 59 19.609	−08 27 13.65

SAO

SAO	α_{1950}	δ_{1950}	SAO	α_{1950}	δ_{1950}
135877	08 22 05.451	−03 35 16.72	151334	06 16 04.179	−19 56 46.76
135958	08 25 57.681	−02 21 00.72	152277	07 00 21.896	−11 22 45.98
135958	08 25 57.689	−02 21 00.60	152360	07 03 22.907	−12 44 04.08
136345	08 49 06.951	−06 59 19.68	152394	07 04 19.804	−11 12 55.96
136662	09 09 57.872	−06 54 13.73	152630	07 13 40.976	−16 08 46.98
137823	10 47 47.457	−08 37 56.58	152724	07 17 12.341	−16 18 00.39
138106	11 14 26.026	−06 51 41.86	152963	07 27 35.932	−13 53 00.91
139174	13 05 55.345	−02 24 46.32	153259	07 39 26.765	−13 16 30.71
139516	13 41 17.921	−05 14 51.96	153362	07 43 10.625	−14 33 48.31
139552	13 45 18.592	−00 20 44.98	155713	10 02 41.299	−12 49 17.50
139798	14 11 05.875	−00 36 36.88	155964	10 22 12.430	−18 50 18.55
140120	14 42 41.679	−06 31 30.12	156090	10 33 33.052	−11 39 01.12
140270	14 58 17.808	−08 19 18.19	157042	11 58 17.520	−19 22 50.49
140550	15 25 26.995	−09 10 13.82	157402	12 35 03.324	−19 18 10.62
140740	15 43 30.273	−01 38 56.03	157434	12 37 37.339	−18 31 32.40
141187	16 25 05.689	−08 15 41.15	157448	12 38 40.251	−12 44 26.80
141269	16 33 43.677	−02 13 10.02	157664	12 59 13.446	−19 30 19.45
141665	17 23 58.550	−05 02 38.50	157923	13 22 33.301	−10 54 03.36
142317	18 23 48.968	−09 13 56.04	158210	13 49 54.667	−18 27 46.33
142348	18 27 04.776	−02 01 09.27	158489	14 16 23.969	−13 08 30.89
142563	18 41 37.182	−01 36 21.90	159146	15 14 03.148	−12 51 21.50
142606	18 43 53.644	−01 00 56.62	159234	15 21 29.019	−10 08 37.91
142979	19 01 34.079	−02 06 18.37	159335	15 30 05.440	−16 41 04.98
143286	19 17 52.724	−05 30 38.73	159682	16 02 31.507	−19 40 12.45
143494	19 28 39.676	−02 12 59.60	159764	16 09 05.107	−19 19 56.51
144150	20 08 43.494	−00 58 16.06	159767	16 09 11.761	−18 56 02.93
144692	20 38 19.779	−00 46 31.92	159918	16 24 07.298	−18 20 40.08
145853	22 02 13.118	−01 08 55.93	160116	16 46 36.157	−15 34 54.81
145940	22 10 07.624	−04 58 04.69	160700	17 34 43.274	−15 22 07.81
146035	22 18 24.567	−07 12 59.69	160747	17 38 36.137	−12 51 01.22
147237	00 20 18.035	−12 29 14.89	161182	18 09 38.201	−10 44 41.64
148148	01 57 49.205	−18 26 58.19	161267	18 14 32.490	−18 28 58.27
148386	02 23 37.678	−15 33 54.52	161292	18 15 17.602	−12 15 45.67
148600	02 44 34.929	−13 33 00.24	161325	18 16 19.810	−11 39 16.24
149215	03 49 30.314	−10 40 39.05	161457	18 22 24.821	−14 00 26.18
149243	03 52 25.246	−15 04 49.57	161458	18 22 42.706	−12 43 09.24
149449	04 09 46.525	−10 35 43.58	161502	18 25 31.381	−16 44 02.08
150396	05 21 12.789	−13 58 22.14	161845	18 45 34.167	−19 44 31.89
150814	05 45 05.621	−10 32 58.15	161860	18 46 25.718	−10 17 56.27
151098	06 03 05.306	−10 14 15.83	162122	18 59 48.098	−10 47 42.35

SAO

SAO	α_{1950}	δ_{1950}	SAO	α_{1950}	δ_{1950}
162180	19 03 01.336	−19 33 31.11	183916	15 51 44.263	−22 37 10.25
162189	19 03 31.107	−11 43 35.61	183957	15 53 47.482	−29 04 10.92
162196	19 03 49.111	−17 10 56.30	183972	15 54 44.832	−20 50 22.85
162518	19 18 51.834	−16 03 01.82	183987	15 55 49.301	−25 58 18.14
163080	19 50 17.153	−14 43 57.84	184014	15 57 22.318	−22 28 51.37
163481	20 18 12.200	−14 56 26.57	184221	16 09 13.090	−27 47 53.94
164027	20 55 55.845	−14 40 39.39	184336	16 18 08.667	−25 28 28.14
164580	21 38 49.847	−14 16 17.57	185213	17 13 08.682	−26 28 33.11
164601	21 40 25.842	−19 51 00.45	185320	17 18 56.157	−24 57 05.20
164644	21 44 16.993	−16 21 18.42	185779	17 45 20.106	−26 57 32.15
164830	21 59 42.543	−17 12 21.87	186247	18 02 06.467	−24 24 10.84
165359	22 50 50.810	−11 52 58.44	186350	18 05 48.436	−25 28 55.10
166406	00 33 59.099	−25 56 55.09	186366	18 06 14.180	−23 59 51.90
166790	01 03 10.366	−27 13 19.16	186497	18 10 46.324	−21 04 25.46
166877	01 10 17.798	−29 26 40.07	187234	18 42 19.553	−21 03 14.40
167450	01 56 40.618	−23 09 44.85	187294	18 44 54.357	−20 19 49.29
168634	03 31 34.657	−21 47 57.95	187882	19 12 28.524	−25 20 40.36
169017	03 57 47.488	−24 09 24.93	188043	19 19 42.783	−20 44 16.77
169130	04 04 33.905	−27 48 06.36	188326	19 32 59.586	−24 49 48.90
169206	04 09 24.399	−20 29 05.34	188692	19 51 18.212	−24 04 00.88
172546	06 52 08.092	−23 51 51.60	190963	22 10 01.260	−21 08 13.60
173444	07 16 35.390	−24 27 58.28	191236	22 31 59.213	−20 07 05.54
173446	07 16 38.031	−24 51 42.75	191294	22 36 01.287	−20 52 49.35
173522	07 18 53.056	−26 52 08.01	193834	02 36 23.832	−38 12 17.97
173970	07 30 35.866	−20 41 02.30	193879	02 41 25.470	−38 08 20.27
174175	07 36 13.100	−25 15 00.39	194902	04 16 00.050	−33 55 09.54
175409	08 11 22.061	−23 48 03.97	195061	04 27 31.924	−33 41 04.34
175870	08 25 19.808	−20 40 40.27	196276	05 51 17.886	−33 48 40.66
176505	08 46 21.553	−25 58 39.08	196698	06 18 23.546	−30 02 23.86
176601	08 49 56.062	−27 17 41.72	196735	06 20 17.110	−33 24 35.76
176805	08 57 34.039	−27 37 10.53	197719	07 11 51.659	−30 59 48.41
177619	09 30 06.988	−28 24 24.28	197837	07 16 51.450	−36 39 00.62
179522	11 03 31.885	−27 01 02.10	198042	07 27 09.049	−31 21 06.77
179648	11 10 45.689	−26 11 34.26	198085	07 29 33.686	−37 53 42.19
179801	11 18 56.573	−20 10 41.13	198093	07 29 53.564	−35 46 49.34
181201	12 50 52.905	−22 36 06.03	198272	07 38 07.115	−38 25 54.68
183631	15 34 28.166	−26 06 57.22	198298	07 39 30.268	−38 24 56.59
183649	15 35 34.729	−29 36 53.36	198419	07 44 31.772	−37 46 25.62
183895	15 50 25.602	−20 01 08.70	198545	07 50 52.396	−38 43 56.79
183900	15 50 54.404	−24 23 08.40	198721	08 00 04.929	−35 09 47.95

SAO

SAO	α_{1950}	δ_{1950}
199224	08 24 28.064	−38 53 43.30
199271	08 26 27.552	−38 48 19.21
202618	11 33 48.240	−37 45 33.32
202729	11 40 18.375	−35 32 17.06
204000	12 56 03.953	−36 42 19.24
204812	13 42 50.314	−32 47 29.86
204919	13 48 59.555	−36 22 33.15
204944	13 50 19.415	−31 40 53.33
206375	15 08 17.021	−36 03 38.08
206660	15 24 05.522	−36 35 36.61
206889	15 39 29.420	−34 33 05.08
207040	15 47 46.468	−33 28 35.36
207641	16 21 27.670	−34 46 45.74
208102	16 48 28.679	−37 57 48.92
208238	16 54 28.533	−37 55 12.01
208356	17 00 32.697	−37 46 28.76
208865	17 25 45.613	−32 57 54.91
208881	17 26 47.627	−33 40 41.68
208954	17 30 12.626	−37 04 09.63
208972	17 31 08.431	−32 28 17.54
208977	17 31 26.314	−32 32 56.46
209401	17 49 35.252	−35 00 29.22
209413	17 50 02.726	−35 00 23.38
209428	17 50 34.637	−34 44 35.62
209436	17 50 54.378	−34 43 06.20
209489	17 52 59.793	−32 28 06.35
209552	17 55 49.486	−36 56 08.06
209609	17 58 26.412	−32 42 54.63
209923	18 12 28.406	−35 39 16.25
209959	18 14 17.236	−34 07 35.38
210781	18 55 21.086	−37 10 27.98
210944	19 04 02.445	−30 14 19.32
211716	19 56 29.133	−35 24 47.51
212402	20 42 03.756	−31 31 05.29
214197	22 53 37.402	−31 49 50.61
214237	22 57 42.167	−34 00 41.25
214860	23 52 41.682	−32 11 59.56
215098	00 24 26.984	−40 09 29.29
215165	00 34 14.124	−49 24 20.25
215545	01 30 29.024	−49 47 01.41

SAO

SAO	α_{1950}	δ_{1950}
215947	02 32 28.419	−44 00 38.92
216357	03 29 00.652	−47 32 42.06
217011	04 47 32.024	−47 13 14.59
217422	05 34 41.153	−47 20 36.96
217600	05 51 57.204	−43 34 01.76
218207	06 46 34.846	−44 15 33.53
218831	07 34 40.891	−44 50 40.50
219000	07 46 00.808	−46 29 00.76
219226	07 56 48.169	−49 06 30.34
219459	08 06 32.407	−41 52 58.70
219501	08 07 56.860	−47 11 49.46
219504	08 07 59.465	−47 11 18.31
219629	08 12 02.251	−46 50 21.54
219684	08 13 49.648	−49 04 01.50
219743	08 15 55.185	−41 33 05.63
219751	08 16 26.576	−46 56 06.24
219985	08 27 29.901	−47 45 40.37
220313	08 40 39.102	−47 55 07.79
220504	08 46 42.283	−42 12 52.63
220538	08 47 57.715	−41 33 22.66
220552	08 48 31.719	−41 54 08.36
220561	08 48 51.625	−46 20 29.20
220658	08 53 18.216	−47 24 03.05
220767	09 00 13.184	−40 21 25.29
220955	09 10 58.303	−43 16 52.18
221496	09 45 53.733	−49 42 38.73
222199	10 35 11.747	−47 57 55.48
222993	11 42 11.027	−49 08 21.42
223241	12 06 18.122	−44 02 49.38
223909	13 03 58.753	−49 38 19.89
224469	13 46 29.739	−41 26 21.52
224538	13 52 24.510	−47 02 34.87
224743	14 07 28.904	−47 31 59.91
224972	14 27 00.328	−49 17 47.29
225539	15 09 27.473	−44 18 46.87
225647	15 15 39.095	−40 36 23.40
225691	15 18 04.851	−40 28 04.92
225712	15 19 16.541	−44 30 40.82
225938	15 31 47.980	−41 00 00.69
226485	16 01 22.456	−46 09 27.41

SAO

SAO	α_{1950}	δ_{1950}
226773	16 23 30.524	−47 26 33.93
226953	16 32 51.149	−42 45 26.77
226997	16 35 19.607	−44 03 32.38
227008	16 35 45.457	−48 45 09.63
227049	16 37 35.138	−48 40 01.19
227053	16 37 40.733	−48 39 29.31
227278	16 46 31.310	−41 32 08.29
227328	16 48 48.358	−41 46 16.53
227370	16 50 24.570	−41 47 59.48
227374	16 50 27.600	−41 54 47.89
227376	16 50 29.301	−41 38 00.94
227382	16 50 39.035	−41 44 39.16
227385	16 50 42.242	−41 45 40.46
227390	16 50 48.747	−41 44 20.88
227403	16 51 05.662	−41 20 33.89
227460	16 52 37.153	−40 16 13.24
227473	16 53 06.857	−40 44 43.53
227631	17 03 19.261	−46 56 13.25
228898	18 15 11.385	−43 22 52.61
229092	18 28 03.240	−45 57 02.52
229095	18 28 20.113	−45 47 37.72
229152	18 34 04.330	−42 59 55.58
229531	19 06 26.482	−41 58 25.53
229746	19 30 42.947	−40 08 37.91
229902	19 48 21.623	−46 59 23.70
230428	20 51 17.391	−45 55 16.81
230871	21 48 46.938	−42 36 28.98
231468	23 07 32.182	−45 31 04.35
232306	01 06 17.251	−55 30 45.72
232399	01 20 20.879	−56 59 31.42
232857	02 39 06.229	−54 45 48.15
233401	04 06 11.668	−52 42 00.44
233457	04 14 42.867	−51 36 42.99
234359	06 09 19.403	−54 57 24.59
234458	06 19 59.828	−54 31 28.63
236056	08 30 11.601	−59 03 25.26
236158	08 38 32.028	−52 52 36.32
236164	08 38 51.636	−52 44 37.11
236181	08 39 30.824	−59 34 55.29
236205	08 40 59.363	−52 56 01.48

SAO

SAO	α_{1950}	δ_{1950}
236417	08 54 48.708	−52 31 50.25
236495	08 59 03.648	−52 21 31.73
236583	09 03 41.863	−53 00 42.74
236693	09 09 39.120	−58 45 41.26
236891	09 20 33.853	−54 47 47.30
236955	09 23 58.629	−57 08 43.50
237142	09 34 57.419	−59 45 39.57
237260	09 41 40.607	−50 59 54.52
237480	09 52 56.908	−58 11 01.77
237491	09 53 14.399	−57 29 24.61
237521	09 55 05.716	−57 24 58.24
237588	09 58 57.707	−59 23 39.26
237917	10 17 46.531	−57 09 12.71
238249	10 34 45.157	−59 05 43.32
238265	10 35 21.841	−58 58 47.08
238353	10 39 22.612	−59 24 54.64
238385	10 41 20.257	−59 56 18.50
238396	10 42 00.906	−59 17 05.00
238400	10 42 04.458	−59 36 41.58
238406	10 42 12.426	−59 18 48.37
238414	10 42 27.048	−59 43 49.19
238414	10 42 27.048	−59 43 49.19
238418	10 42 37.396	−59 28 28.04
238445	10 43 46.729	−59 08 39.24
238458	10 44 17.265	−56 33 56.09
238531	10 49 13.366	−56 08 41.97
238720	11 01 30.584	−51 04 59.71
239043	11 22 09.703	−57 27 10.71
239816	12 14 55.850	−57 53 12.68
240645	13 09 09.247	−59 39 17.43
240653	13 09 47.153	−59 33 00.38
240822	13 22 06.824	−59 31 16.74
240918	13 28 31.522	−51 30 52.20
241248	13 49 24.087	−55 17 40.37
241552	14 10 15.197	−54 23 31.03
241587	14 13 24.877	−57 37 22.09
242791	15 34 58.574	−57 32 36.68
244037	16 35 34.799	−56 53 45.99
244209	16 47 58.531	−57 10 41.04
244518	17 08 38.891	−58 32 11.20

SAO	α_{1950}	δ_{1950}
244539	17 09 59.427	-56 49 49.71
244895	17 33 50.722	-56 47 28.93
245020	17 43 00.106	-56 04 52.87
245065	17 46 24.124	-53 35 53.52
245781	18 49 13.745	-50 14 26.92
246574	20 21 42.289	-56 53 50.02
247247	21 54 59.023	-59 15 05.97
248237	00 40 20.698	-65 44 32.93
248669	02 50 42.701	-61 49 26.69
249309	05 32 43.056	-64 15 37.10
249329	05 39 03.476	-69 07 35.21
249572	06 30 40.787	-61 50 32.16
250128	08 07 46.613	-68 28 12.53
250940	10 21 29.101	-66 38 53.18
251083	10 41 10.052	-64 07 55.36
251117	10 44 39.915	-63 59 58.06
251181	10 53 58.015	-60 07 30.74
251264	11 04 18.018	-65 14 21.13
251296	11 07 56.867	-60 42 27.02
251312	11 09 56.419	-60 49 23.03
251415	11 25 46.872	-61 08 08.32
251436	11 28 56.052	-65 27 59.47
251495	11 35 11.924	-63 04 14.28
251595	11 45 33.632	-61 55 43.90
251606	11 48 04.320	-60 30 56.21
251619	11 49 59.812	-61 14 45.12
251702	12 00 21.696	-61 53 48.61
251705	12 00 27.869	-63 02 04.11
251717	12 01 43.859	-62 53 14.26
251733	12 03 12.748	-69 17 41.03
251903	12 23 43.075	-62 50 42.31
251904	12 23 48.064	-62 49 19.43
251987	12 36 56.818	-66 14 12.09
252070	12 50 37.653	-60 05 09.62
252162	13 04 52.075	-65 02 21.47
252224	13 11 49.986	-67 37 48.79
252281	13 18 22.400	-60 15 32.94
252283	13 19 20.755	-60 42 38.14
252311	13 24 04.276	-61 36 52.54
253084	15 12 53.078	-60 46 24.48
253159	15 21 49.326	-63 15 05.79
253175	15 23 30.115	-62 50 47.61
253405	15 59 23.458	-62 33 19.62
253554	16 23 03.880	-69 58 28.74
253639	16 34 56.592	-60 51 46.87
253856	17 12 18.174	-66 53 40.35
253891	17 18 14.145	-67 52 52.54
254696	19 53 48.115	-68 53 48.54
255716	00 51 26.650	-74 55 23.30
256214	05 38 39.383	-78 50 55.65
256549	08 44 58.108	-78 53 15.10
257869	20 53 50.503	-70 36 57.94
257879	20 58 44.041	-77 13 01.18
257941	21 32 23.080	-70 33 28.79
258392	04 52 47.738	-84 53 50.59
258538	09 35 25.599	-80 43 01.70
258590	10 42 26.855	-81 46 25.97

SRS

SRS	α_{1950}	δ_{1950}
2493	20 51 17.391	−45 55 16.81
3759	01 20 16.664	+00 27 16.10
4422	02 23 37.678	−15 33 54.52
4613	02 41 25.470	−38 08 20.27
6336	05 19 27.985	−03 00 40.49
6381	05 23 04.494	−01 32 03.78
7604	07 13 40.976	−16 08 46.98
8406	08 25 19.808	−20 40 40.27
9791	10 33 33.052	−11 39 01.12
10197	11 10 45.689	−26 11 34.26
11442	13 05 55.345	−02 24 46.32
11828	13 41 17.921	−05 14 51.96
11912	13 49 54.667	−18 27 46.33
13986	17 02 43.918	+00 46 28.23
14653	18 05 48.436	−25 28 55.10
14659	18 06 14.180	−23 59 51.90
14692	18 09 38.201	−10 44 41.64
14832	18 22 24.821	−14 00 26.18
15161	18 53 13.166	+00 11 58.95
15595	19 32 59.586	−24 49 48.90
16474	20 54 43.193	+04 53 13.36
16487	20 55 55.845	−14 40 39.39
17913	23 10 50.577	+02 24 09.70
18930	05 31 45.039	−81 37 23.92
30001	00 05 47.841	+28 48 52.12
30007	00 10 39.447	+14 54 20.57
30018	00 34 12.186	+33 26 39.75
30027	00 44 40.968	+23 59 43.95
30064	01 50 13.440	+29 20 10.14
30066	01 51 52.340	+20 33 52.09
30075	02 06 33.579	+34 45 06.52
30123	03 24 27.329	+09 33 35.17
30135	03 40 51.035	−09 55 53.05
30136	03 41 54.055	+23 57 27.82
30139	03 44 30.424	+23 57 07.57
30144	03 50 58.959	+31 44 12.55
30148	03 55 42.825	+35 38 56.50
30150	03 57 54.378	+12 21 02.13
30157	04 14 42.867	−51 36 42.99
30174	04 39 14.403	+22 51 46.00
30176	04 42 59.993	−03 20 41.33
30179	04 48 32.421	+05 31 16.34
30180	04 51 38.661	+02 21 37.24
30206	05 29 27.017	−00 20 04.41
30210	05 33 40.476	−01 13 56.30
30211	05 34 39.263	+21 06 50.00
30232	06 04 42.949	+14 46 34.32
30235	06 09 19.403	−54 57 24.59
30240	06 18 23.546	−30 02 23.86
30251	06 34 49.396	+16 26 37.40
30285	07 24 26.357	+08 23 29.89
30309	08 07 59.465	−47 11 18.31
30353	09 20 33.853	−54 47 47.30
30360	09 31 09.969	+36 37 14.38
30365	09 38 29.008	+10 07 14.64
30406	10 41 10.052	−64 07 55.36
30489	13 03 58.753	−49 38 19.89
30493	13 11 49.986	−67 37 48.79
30498	13 22 33.301	−10 54 03.36
30502	13 32 33.917	+37 26 16.62
30506	13 42 50.314	−32 47 29.86
30512	13 52 24.510	−47 02 34.87
30522	14 08 07.066	+25 19 39.84
30578	15 32 34.145	+26 52 54.75
30586	15 47 46.468	−33 28 35.36
30592	15 55 49.301	−25 58 18.14
30594	15 57 22.318	−22 28 51.37
30607	16 18 08.667	−25 28 28.14
30609	16 19 42.738	+19 16 09.32
30610	16 23 03.880	−69 58 28.74
30618	16 28 04.105	+21 35 50.16
30634	16 58 22.471	+30 59 55.92
30644	17 18 56.157	−24 57 05.20
30647	17 23 58.550	−05 02 38.50
30652	17 30 12.626	−37 04 09.63
30656	17 32 36.697	+12 35 41.94
30658	17 34 43.274	−15 22 07.81
30682	18 10 46.324	−21 04 25.46
30705	18 48 13.936	+33 18 12.51
30727	19 18 51.834	−16 03 01.82

SRS

SRS	α_{1950}	δ_{1950}
30751	19 56 29.133	−35 24 47.51
30756	20 08 43.494	−00 58 16.06
30762	20 18 12.200	−14 56 26.57
30764	20 21 42.289	−56 53 50.02
30787	20 58 44.041	−77 13 01.18
30819	21 44 16.993	−16 21 18.42
30823	21 50 47.084	+25 41 20.87
30831	22 04 40.836	+25 06 00.71
30902	23 56 44.494	+06 35 11.41
31002	00 02 46.530	−05 59 13.96
31020	00 46 20.792	+16 40 15.74
31076	02 39 06.229	−54 45 48.15
31091	03 13 24.143	−09 00 15.50
31099	03 31 34.657	−21 47 57.95
31103	03 37 46.777	+25 10 09.75
31104	03 43 00.821	+05 53 41.52
31142	05 06 34.444	+09 46 01.19
31158	05 50 10.984	+27 36 08.48
31163	06 01 04.774	+23 16 04.51
31170	06 17 18.205	−07 48 01.79
31177	06 43 48.773	+08 38 30.21
31203	07 46 00.808	−46 29 00.76
31227	08 38 51.636	−52 44 37.11
31238	09 05 02.414	+10 52 14.13
31261	10 02 41.299	−12 49 17.50
31281	10 47 47.457	−08 37 56.58
31308	11 53 06.284	+15 55 30.08
31358	13 44 23.997	+25 57 08.51
31370	14 15 52.952	+35 44 21.87
31371	14 16 23.969	−13 08 30.89
31394	14 58 17.808	−08 19 18.19
31402	15 18 04.851	−40 28 04.92
31415	15 50 25.602	−20 01 08.70
31429	16 21 44.526	+07 03 44.55
31433	16 33 43.677	−02 13 10.02
31439	16 48 28.679	−37 57 48.92
31453	17 13 59.357	+01 15 53.07
31479	18 24 02.968	+29 47 56.13
31480	18 27 04.776	−02 01 09.27
31575	21 47 37.796	+29 56 26.28

SRS

SRS	α_{1950}	δ_{1950}
31605	23 07 32.182	−45 31 04.35
40041	00 12 24.138	+08 32 35.70
40096	00 32 40.390	−03 52 04.29
40124	00 40 20.698	−65 44 32.93
40183	01 00 04.351	+31 32 10.53
40253	01 22 51.423	+23 15 07.42
40296	01 38 30.650	+25 29 38.52
40376	02 03 45.702	+22 24 39.13
40444	02 30 09.520	+14 48 52.07
40462	02 36 23.832	−38 12 17.97
40642	03 29 00.652	−47 32 42.06
40652	03 31 53.836	+31 51 04.16
40677	03 41 10.603	+32 07 53.49
40710	03 46 22.636	+32 56 23.13
40737	03 54 05.621	+23 01 55.17
40745	03 57 47.488	−24 09 24.93
40765	04 03 32.054	+27 27 59.58
40781	04 09 24.399	−20 29 05.34
40809	04 16 00.050	−33 55 09.54
40812	04 16 28.992	+21 01 22.50
40825	04 18 17.198	−07 42 38.65
40827	04 19 14.250	+13 57 38.10
40831	04 20 32.670	+16 39 43.80
40853	04 24 42.955	+11 06 05.36
40862	04 25 48.214	+15 45 41.88
40885	04 32 54.244	+10 03 35.07
40893	04 35 18.604	+20 35 09.65
40931	04 46 04.700	+32 30 08.81
40955	04 52 16.487	+00 23 15.42
40998	05 04 17.196	−04 43 14.92
41004	05 05 03.646	+24 12 02.80
41030	05 12 08.799	+32 37 54.05
41051	05 18 01.655	+29 31 15.77
41054	05 18 58.611	−00 27 52.47
41055	05 19 00.088	+08 22 50.64
41064	05 21 12.789	−13 58 22.14
41073	05 21 57.674	−02 26 29.65
41082	05 24 12.930	+03 03 14.26
41102	05 28 06.416	+05 54 41.79
41108	05 29 26.996	−00 19 11.93

SRS

SRS	α_{1950}	δ_{1950}
41113	05 30 59.063	-01 11 23.03
41113	05 30 59.063	-01 11 23.03
41119	05 32 23.746	+24 00 29.86
41126	05 32 43.056	-64 15 37.10
41128	05 32 48.356	-05 25 07.95
41128	05 32 48.669	-05 25 00.57
41129	05 32 55.034	-04 52 10.86
41130	05 32 55.469	-05 26 50.89
41139	05 35 00.528	-05 58 02.16
41145	05 36 07.380	+29 11 17.37
41150	05 36 38.143	+25 52 15.31
41158	05 38 14.044	-01 58 03.05
41159	05 38 18.310	-01 09 12.66
41181	05 45 05.621	-10 32 58.15
41212	05 51 17.886	-33 48 40.66
41216	05 51 58.976	+19 44 29.91
41233	05 56 41.770	-09 33 36.62
41245	05 59 37.852	+09 38 56.27
41245	05 59 37.854	+09 38 56.35
41249	06 00 29.692	+19 41 35.51
41259	06 03 05.306	-10 14 15.83
41288	06 09 05.753	+14 13 18.68
41289	06 09 10.198	+16 08 37.04
41297	06 11 33.303	+17 55 20.05
41325	06 16 04.179	-19 56 46.76
41339	06 20 17.110	-33 24 35.76
41375	06 28 22.604	+11 17 15.24
41382	06 29 11.433	+32 29 32.59
41533	07 04 19.804	-11 12 55.96
41590	07 16 35.390	-24 27 58.28
41591	07 16 38.031	-24 51 42.75
41595	07 16 51.450	-36 39 00.62
41597	07 17 12.341	-16 18 00.39
41602	07 18 53.056	-26 52 08.01
41626	07 24 46.351	+21 32 56.88
41647	07 27 09.049	-31 21 06.77
41685	07 36 13.100	-25 15 00.39
41706	07 39 30.268	-38 24 56.59
41707	07 40 11.374	+29 00 22.23
41756	07 50 52.396	-38 43 56.79

SRS

SRS	α_{1950}	δ_{1950}
41777	07 56 48.169	-49 06 30.34
41788	07 58 40.698	-01 15 08.75
41822	08 07 56.860	-47 11 49.46
41844	08 12 02.251	-46 50 21.54
41881	08 22 05.451	-03 35 16.72
41950	08 38 32.028	-52 52 36.32
41957	08 39 30.824	-59 34 55.29
41962	08 40 39.102	-47 55 07.79
41964	08 40 59.363	-52 56 01.48
41978	08 44 07.508	+06 36 11.91
41987	08 45 47.114	+06 01 24.82
41999	08 48 51.625	-46 20 29.20
42000	08 49 06.951	-06 59 19.68
42062	09 05 51.076	+26 50 13.96
42075	09 09 39.120	-58 45 41.26
42186	09 35 25.599	-80 43 01.70
42217	09 47 02.359	+21 24 48.04
42244	09 55 32.100	+12 41 03.03
42313	10 21 29.101	-66 38 53.18
42347	10 32 24.801	+08 54 33.57
42355	10 35 11.747	-47 57 55.48
42389	10 44 39.915	-63 59 58.06
42445	11 03 31.885	-27 01 02.10
42474	11 14 26.026	-06 51 41.86
42508	11 27 25.619	+30 14 35.79
42574	11 46 39.843	+16 31 18.60
42606	11 58 17.520	-19 22 50.49
42614	12 00 27.869	-63 02 04.11
42616	12 01 43.859	-62 53 14.26
42630	12 06 18.122	-44 02 49.38
42668	12 17 48.976	+26 53 54.44
42690	12 23 43.075	-62 50 42.31
42836	13 09 09.247	-59 39 17.43
42870	13 19 20.755	-60 42 38.14
42950	13 46 29.739	-41 26 21.52
42969	13 50 19.415	-31 40 53.33
43015	14 11 05.875	-00 36 36.88
43070	14 27 00.328	-49 17 47.29
43144	14 49 04.800	+19 18 24.60
43210	15 09 27.473	-44 18 46.87

SRS

SRS	α_{1950}	δ_{1950}
43220	15 12 53.078	-60 46 24.48
43229	15 15 39.095	-40 36 23.40
43243	15 19 16.541	-44 30 40.82
43252	15 21 29.019	-10 08 37.91
43259	15 24 05.522	-36 35 36.61
43274	15 30 05.440	-16 41 04.98
43281	15 31 47.980	-41 00 00.69
43301	15 35 34.729	-29 36 53.36
43323	15 39 29.420	-34 33 05.08
43338	15 43 30.273	-01 38 56.03
43351	15 47 29.713	+26 13 13.16
43360	15 50 54.404	-24 23 08.40
43373	15 53 47.482	-29 04 10.92
43378	15 54 44.832	-20 50 22.85
43391	15 59 26.291	+29 59 23.49
43431	16 09 05.107	-19 19 56.51
43434	16 09 13.090	-27 47 53.94
43490	16 23 30.524	-47 26 33.93
43493	16 24 07.298	-18 20 40.08
43496	16 25 05.689	-08 15 41.15
43521	16 32 51.149	-42 45 26.77
43523	16 33 11.685	+17 09 32.66
43537	16 37 35.138	-48 40 01.19
43548	16 39 34.863	+27 00 42.82
43661	17 15 28.612	+33 09 10.07
43700	17 23 54.053	+07 38 17.03
43705	17 24 39.539	+20 07 19.95
43706	17 24 58.263	+34 44 11.51
43719	17 31 26.314	-32 32 56.46
43748	17 38 36.137	-12 51 01.22
43769	17 45 20.106	-26 57 32.15
43773	17 46 24.124	-53 35 53.52
43789	17 50 34.637	-34 44 35.62
43795	17 52 59.793	-32 28 06.35
43830	18 00 14.676	+20 49 55.39
43904	18 19 01.374	+29 50 01.63
43927	18 25 32.158	+06 09 43.34
43940	18 28 03.240	-45 57 02.52
43942	18 28 20.113	-45 47 37.72
44005	18 43 53.644	-01 00 56.62

SRS

SRS	α_{1950}	δ_{1950}
44026	18 48 15.823	+33 17 33.39
44033	18 49 44.326	+13 54 15.54
44034	18 50 08.196	+21 21 48.31
44063	18 55 21.086	-37 10 27.98
44085	18 59 48.098	-10 47 42.35
44106	19 04 37.292	+10 59 34.00
44110	19 05 31.990	+32 25 18.48
44114	19 06 25.899	+16 46 18.21
44115	19 06 26.482	-41 58 25.53
44132	19 12 28.524	-25 20 40.36
44140	19 14 03.958	+21 18 03.00
44150	19 17 52.724	-05 30 38.73
44202	19 30 42.947	-40 08 37.91
44226	19 36 43.539	+05 16 56.69
44233	19 38 46.581	+13 41 53.48
44258	19 47 51.889	+07 46 29.79
44265	19 48 54.847	+22 28 53.89
44271	19 51 18.212	-24 04 00.88
44288	19 53 52.132	+11 17 22.86
44350	20 08 28.223	+26 45 17.59
44438	20 35 25.553	+11 12 07.03
44481	20 47 21.142	+07 40 37.88
44512	20 56 34.570	+04 06 02.09
44548	21 06 31.463	+30 00 09.40
44644	21 38 49.847	-14 16 17.57
44669	21 42 22.714	+25 24 51.41
44703	21 54 59.023	-59 15 05.97
44732	22 02 13.118	-01 08 55.93
44889	22 50 34.454	+16 34 31.28
44891	22 50 50.810	-11 52 58.44
45040	23 35 25.105	+18 07 24.38
45090	23 52 41.682	-32 11 59.56

SVS

SVS	α_{1950}	δ_{1950}
7	01 57 42.427	+27 38 50.46
32	16 42 05.994	+25 20 31.68
52	21 27 48.59	−03 12 29.7
54	00 30 38.86	+62 14 07.9
71	00 16 31.	+41 11 24.
83	18 05 24.786	+05 51 18.78
167	09 27 00.	+21 36 42.
228	08 58 14.34	+18 05 44.1
254	23 48 48.71	+60 01 29.2
337	17 29 21.95	−16 13 15.1
365	13 34 42.10	+52 10 04.2
366	12 06 32.58	+56 18 34.7
382	12 54 11.3	+26 52 55.
484	20 44 12.00	+28 04 40.8
505	21 44 45.358	+56 41 07.57
589	18 24 14.0	−12 01 07.
615	21 03 45.	+00 43
641	20 07 35.981	+10 12 05.66
710	19 27 20.	+42 59 24.
770	09 34 34.79	+56 14 38.5
825	00 13 44.82	+56 04 07.1
827	00 42 54.38	+62 48 45.5
830	23 04 50.18	+50 14 16.4
852	04 46 03.	+40 25
918	02 39 02.	+43 08 36.
923	18 48 45.961	+24 39 36.06
936	00 48 43.79	+58 35 34.4
969	23 56 10.880	+60 52 58.18
970	19 03 49.111	−17 10 56.30
972	01 27 12.654	+62 28 03.12
995	02 05 59.297	+40 33 28.73
1014	05 55 42.40	+27 04 29.9
1021	19 05 44.34	+43 56 20.7
1023	05 00 36.	+26 19
1101	21 49 43.	+42 55 18.
1153	03 28 14.510	+58 37 12.80
1202	20 50 26.65	+44 08 04.5
1219	18 53 13.	−00 05 24.
1277	08 43 38.	+10 31 00.
1280	08 41 41.70	+13 03 26.1

SVS

SVS	α_{1950}	δ_{1950}
1299	19 11 35.	+12 12 37.
1359	16 49 55.77	+77 07 16.2
1396	08 19 29.490	+45 37 04.05
1397	17 56 42.73	−27 17 39.1
1572	18 53 00.002	+09 16 53.30
1669	00 53 46.	+22 47
1719	08 49 52.485	+58 00 04.10
1740	07 30 07.	+48 07
1755	10 14 09.000	+72 10 44.70
1772	16 11 39.	−28 32
1806	00 39 48.850	+52 03 48.22
1807	22 30 22.	+57 24 24.
1808	19 56 28.879	+35 03 54.77
1851	10 03 08.870	+67 47 25.95
2086	17 16 29.521	+41 53 46.13
2123	23 26 15.94	+04 58 34.6
2198	10 54 02.	+49 57 12.
2288	01 33 45.	+31 45 30.
2310	15 06 05.309	+86 55 25.53
2316	02 45 42.348	+30 54 36.28
2354	15 35 45.00	+19 01 48.6
2383	03 46 22.636	+32 56 23.13
2426	15 33 00.	+59 57
2491	14 49 04.800	+19 18 24.60
2548	21 16 35.137	+43 44 05.12
2549	23 20 39.47	+18 08 42.0
2560	04 38 22.034	+20 48 34.57
2591	00 20 18.035	−12 29 14.89
2613	17 11 05.73	+33 34 48.5
2623	19 46 17.99	+18 04 31.0
2631	22 03 05.	−00 38 06.
2636	22 06 29.85	−04 01 01.4
2647	22 17 23.	−00 55 42.
2653	22 23 02.	−08 11 48.
2669	22 38 24.	−07 48 24.
2817	12 13 16.33	+52 47 48.4
2843	20 30 17.9	+40 38 16.
2865	08 18 53.4	+51 15 01.

WR

WR	α_{1950}	δ_{1950}
3	01 35 37.792	+57 54 09.47
4	02 37 32.967	+56 31 00.34
6	06 52 08.092	−23 51 51.6
8	07 43 02.02	−31 47 11.5
9	07 43 57.58	−34 12 25.9
11	08 07 59.465	−47 11 18.31
12	08 43 05.61	−45 47 58.2
14	08 53 18.216	−47 24 03.05
16	09 53 14.399	−57 29 24.61
21	10 24 41.42	−58 23 07.9
22	10 39 22.612	−59 24 54.64
30	10 49 10.26	−62 01 05.9
31	10 51 43.77	−59 14 47.2
40	11 04 18.018	−65 14 21.13
42	11 07 56.867	−60 42 27.02
43	11 12 57.8	−60 59 16.2
46	12 02 42.8	−61 46 26.
47	12 40 53.23	−62 48 49.4
48	13 04 52.075	−65 02 21.47
50	13 14 45.6	−62 10 19.
55	13 30 07.1	−62 03 36.
71	15 59 23.458	−62 33 19.62
78	16 48 48.358	−41 46 16.53
79	16 50 48.747	−41 44 20.88
97	17 33 34.99	−34 00 49.
98	17 33 56.0	−33 26 08.
103	17 58 26.412	−32 42 54.63
113	18 16 19.81	−11 39 16.24
123	19 01 20.36	−04 23 32.7
124	19 09 16.46	+16 46 36.
127	19 44 14.46	+28 08 54.7
128	19 46 17.99	+18 04 31.
133	20 04 04.633	+35 38 38.28
134	20 08 21.611	+36 01 39.8
136	20 10 17.128	+38 12 15.05
137	20 12 39.405	+36 30 28.15
138	20 15 08.535	+37 16 03.4
139	20 17 42.595	+38 34 24.27
140	20 18 46.706	+43 41 42.9
141	20 19 38.906	+36 45 36.52

WR

WR	α_{1950}	δ_{1950}
145	20 30 17.9	+40 38 16.
148	20 39 54.358	+52 24 29.
151	22 07 48.964	+57 29 43.36
153	22 16 54.536	+55 52 29.89
155	22 34 56.77	+56 38 45.88

X

X	α_{1950}	δ_{1950}	X	α_{1950}	δ_{1950}
MS	00 09 54.612	+14 17 11.48	1ES	05 32 48.669	−05 25 00.57
1ES	00 44 40.968	+23 59 43.95	1ES	05 32 59.126	−05 56 28.26
1ES	00 51 26.650	−74 55 23.30	H	05 34 02.4	−58 03 33.
EXO	01 00 04.351	+31 32 10.53	3A,H,1H,2S,4U	05 35 47.963	+26 17 18.02
1ES	01 01 45.809	+41 01 54.44	A	05 35 42.4	−66 53 39.
1ES	01 14 18.536	+06 32 52.97	H,1H,4U	05 38 15.9	+60 50 03.
3A,AT?,2S,4U?	01 14 41.693	+65 01 43.04	3A,1ES,H,1H,1M,4U	05 40 05.5	−69 46 03.6
3A,1ES,H,1M,4U	01 15 45.67	−73 42 23.3	1H	05 41 44.5	−41 03 13.
1ES	01 20 16.664	+00 27 16.10	4U	06 09 15.9	−48 43 45.
3A,1ES,H,1H	01 39 37.5	−68 08 32.	3A, 2S	06 20 11.188	−00 19 10.61
1ES	01 50 13.440	+29 20 10.14	1ES	06 23 14.318	+18 47 20.98
1ES,EXO,MS	02 04 09.91	+15 03 27.4	EXO	06 30 36.832	+82 18 46.74
1ES	02 09 27.778	+30 04 10.44	1E,1ES	06 43 03.2	−16 48 23.
1ES	02 09 27.868	+30 04 14.14	2A,1H,(1M),4U?	07 10 45.4	−36 00 31.
1ES	02 32 28.419	−44 00 38.92	1ES	07 16 38.031	−24 51 42.75
EXO	02 34 32.2	−52 32 15.	3A	07 28 44.45	+10 02 47.3
1E,1ES	02 36 40.574	+61 00 54.84	1ES,1H?	07 31 26.235	+31 58 50.36
1ES	02 41 25.470	−38 08 20.27	AT,1ES,1H	07 40 11.374	+29 00 22.23
1ES	02 44 22.790	+69 25 33.10	H	07 52 07.807	+22 08 04.61
1ES	02 45 42.348	+30 54 36.28	1ES	08 07 56.860	−47 11 49.46
1ES	02 50 42.701	−61 49 26.69	1ES	08 07 59.465	−47 11 18.31
1ES,H	03 04 54.356	+40 45 52.46	1ES,1H	08 08 05.401	+62 45 22.74
3A,1ES,1H	03 12 00.02	−22 46 47.1	1ES	08 12 52.22	−18 54 02.3
3A,AT,1ES,H	03 23 33.019	+28 32 32.53	1H	08 34 48.5	+48 48 37.
1ES	03 24 27.329	+09 33 35.17	H	08 41 41.70	+13 03 26.1
3A	03 27 47.529	+43 44 04.67	EXO	08 49 35.089	+08 15 18.27
EXO	03 29 56.8	−26 07 01.	1ES	08 58 14.34	+18 05 44.1
EXO	03 33 20.89	−25 54 17.4	3A,H,1H,1M,4U	09 00 13.184	−40 21 25.29
3A,AT,1E,1ES,4U	03 34 13.130	+00 25 32.96	1ES	09 19 17.443	+40 25 11.74
1ES	03 47 33.42	+17 05 46.2	1ES	09 30 05.838	+70 03 06.47
4U?	04 05 01.311	+47 34 51.78	1ES	09 57 13.305	+24 47 36.13
1ES	04 07 15.207	−08 01 27.35	1ES	10 03 08.870	+67 47 25.95
1ES	04 19 53.799	+14 56 25.18	E,H	10 13 57.24	−47 43 12.1
1ES	04 33 41.765	+27 02 01.03	1ES	10 42 37.396	−59 28 28.04
	05 12 59.466	+45 56 58.04	1E,MS,1H	10 48 33.6	+54 20 33.
?	05 22 23.1	−68 01 20.	MS	11 00 17.684	+61 55 28.35
3A,1ES,1H	05 27 34.4	−32 51 24.6	EXO	11 01 35.61	+45 19 26.4
1ES	05 29 27.017	−00 20 04.41	MS	11 10 45.689	−26 11 34.26
3A,1ES,H,1H,4U	05 32 47.3	−66 24 13.	1ES	11 11 36.87	−37 24 26.3
1ES	05 32 48.356	−05 25 07.95	E,MS	11 14 38.07	+18 14 05.1

X

X	α_{1950}	δ_{1950}	X	α_{1950}	δ_{1950}
1ES	11 15 31.120	+31 48 37.87	3A,1ES,H,1H,1M,2S,4U	18 20 27.74	−30 23 15.1
3A,1ES,H,1H,1M,4U	11 19 01.9	−60 20 57.	1ES	18 32 44.674	+51 40 59.90
EXO	11 33 48.240	−37 45 33.32	H?	18 42 44.149	+37 56 42.35
3A,1ES,MS	11 40 48.88	+71 57 58.5	1ES	18 46 21.470	+00 31 36.21
3A,1E	11 45 02.3	−61 40 33.	3A,1E,1ES,1H,4U	18 51 49.0	−31 13 39.2
3A,1E,1ES,H,1H,1M,2S,4U	11 45 33.632	−61 55 43.90	1ES	18 53 47.211	+23 29 40.63
MS	12 11 47.877	+12 05 54.90	H	19 05 44.34	+43 56 20.7
1ES	12 13 21.404	+72 49 45.35	1H	19 07 20.1	+69 03 30.
MS	12 22 31.887	+25 50 15.38	3A,1ES,H,1H,4U	19 09 21.282	+04 53 54.27
1ES	12 23 48.870	−62 49 21.48	1ES	19 16 37.017	+19 31 04.26
3A,1ES,EXO,1H,1M?,4U	12 49 42.72	−28 58 40.7	3A,H,1H,1M,4U	19 56 28.879	+35 03 54.77
1ES	12 55 19.20	+35 29 49.5	E,H	20 03 30.7	+22 31 28.
1ES	12 58 17.75	+12 38 42.7	1ES	20 05 20.57	+17 33 30.0
1ES	13 03 16.00	+18 17 04.2	1ES	20 18 46.706	+43 41 42.90
1ES	13 04 52.075	−65 02 21.47	GS	20 22 06.37	+33 42 16.6
1ES,H	13 22 33.301	−10 54 03.36	1ES	20 37 34.27	−01 02 56.8
1ES	13 28 09.54	−54 43 05.9	1H,3U	20 38 02.972	+75 24 57.96
1ES	13 28 24.772	+24 29 25.23	1E,1ES,MS	20 38 19.779	−00 46 31.92
1ES,1H	13 32 33.917	+37 26 16.62	1ES	20 58 08.601	+39 52 39.58
EXO	13 42 50.314	−32 47 29.86	1ES	21 00 16.464	+27 36 33.50
E,1ES,H,1H,M?	14 05 58.2	−45 03 04.6	4U?	21 37 24.390	+57 15 44.56
EXO	14 16 23.969	−13 08 30.89	3A,H,1H	21 40 44.402	+43 21 23.31
1ES	14 49 04.800	+19 18 24.60	1ES?	22 00 13.572	+82 37 51.47
1E	14 49 47.5	−68 04 04.	1ES,1H	22 06 39.437	+45 29 45.72
EXO,1ES,1H?	15 02 08.190	+47 50 53.10	H	22 15 17.40	−08 36 05.04
3A,H,1H,1M,2S,4U	15 38 38.62	−52 13 36.9	1ES	22 36 01.287	−20 52 49.35
1ES	15 47 29.713	+26 13 13.16	1H	22 50 34.454	+16 34 31.28
1ES,EXO	15 50 33.08	+19 05 17.7	1ES	22 51 22.571	+37 40 18.88
E	15 51 18.0	+71 55 25.	3A,H,1H	22 52 43.081	−03 26 40.32
MS	16 03 40.50	+25 59 48.1	1ES	22 57 42.167	−34 00 41.25
1ES	16 12 48.252	+33 59 02.62	1ES	23 07 39.187	+47 41 13.25
3A,H,1H,1M,4U	16 17 04.489	−15 31 14.78	1ES,H	23 17 50.188	+78 43 43.62
H	16 32 51.149	−42 45 26.77	1ES,1H	23 35 06.520	+46 11 13.83
1ES	16 50 24.570	−41 47 59.48	3A,AT,1ES,1H	23 52 29.081	+28 21 17.88
1E,MS	16 53 59.426	+35 15 39.32			
H,2S,4U	17 00 32.697	−37 46 28.76			
1ES?	17 31 26.314	−32 32 56.46			
MS	17 37 14.348	+68 46 52.48			
1E,MS	18 05 58.280	+69 44 53.09			
3A,1ES,H,1H,1M,4U	18 14 58.75	+49 50 54.9			

X-Ray Name

X-Ray	α_{1950}	δ_{1950}
Cen X-3	11 19 01.9	−60 20 57.
Cen X-4	14 55 20.651	−31 27 46.68
Cep X-4?	21 37 24.390	+57 15 44.56
Cyg X-1	19 56 28.879	+35 03 54.77
LMC X-1	05 40 05.5	−69 46 03.6
LMC X-4	05 32 47.3	−66 24 13.
LMC X-5?	05 22 23.1	−68 01 20.
Mon X-1	06 20 11.188	−00 19 10.61
Nor X-2?	15 38 38.62	−52 13 36.9
Sgr X-4	18 20 27.74	−30 23 15.1
Sco X-1	16 17 04.489	−15 31 14.78
SMC X-1	01 15 45.67	−73 42 23.3
Vel X-1	09 00 13.184	−40 21 25.29

Zi

Zi	α_{1950}	δ_{1950}
3	00 10 39.447	+14 54 20.57
8	00 16 31.	+41 11 24.
34	00 40 41.378	+46 45 04.98
57	01 11 01.311	+24 19 04.65
59	01 11 08.335	+07 18 52.03
90	01 40 30.757	+50 26 15.92
101	01 51 52.340	+20 33 52.09
154	02 46 29.840	+17 15 27.29
165	03 03 48.046	+81 16 50.48
185	03 21 50.132	−00 52 47.00
208	03 41 10.603	+32 07 53.49
260	03 50 58.959	+31 44 12.55
263	03 54 29.432	+39 52 02.54
264	03 55 42.825	+35 38 56.50
270	04 05 01.311	+47 34 51.78
280	04 14 28.414	+50 10 29.09
297	04 32 54.244	+10 03 35.07
313	04 48 32.421	+05 31 16.34
340	05 03 00.214	+41 10 08.38
360	05 12 59.466	+45 56 58.04
376	05 23 12.686	+00 28 38.36
377	05 24 12.930	+03 03 14.26
379	05 26 29.	−03 36 12.
429	05 32 48.356	−05 25 07.95
431	05 32 55.034	−04 52 10.86
433	05 32 55.469	−05 26 50.89
435	05 32 58.911	−05 26 52.21
437	05 33 05.918	−03 17 02.12
454	05 34 39.263	+21 06 50.00
505	06 00 29.692	+19 41 35.51
511	06 10 29.	+45 31 06.
542	06 34 43.220	+06 10 44.47
651	07 40 11.374	+29 00 22.23
721	08 49 06.951	−06 59 19.68
733	09 05 02.414	+10 52 14.13
788	10 02 41.299	−12 49 17.50
814	10 20 33.038	+65 49 12.47
815	10 19 21.469	+41 45 06.25
829	10 32 24.801	+08 54 33.57
842	10 39 22.612	−59 24 54.64

Zi

Zi	α_{1950}	δ_{1950}
891	11 35 53.01	+03 38 46.9
905	11 52 29.996	+46 45 18.12
948	12 32 35.859	+18 39 07.47
988	13 13 58.03	−62 21 45.6
997	13 22 33.301	−10 54 03.36
1000	13 21 54.916	+55 11 09.46
1024	13 46 29.739	−41 26 21.52
1048	14 03 01.963	+64 36 51.57
1057	14 16 23.969	−13 08 30.89
1090	14 47 26.	−55 42 42.
1116	15 18 04.851	−40 28 04.92
1184	15 59 26.291	+29 59 23.49
1189	16 02 31.507	−19 40 12.45
1232	16 18 08.667	−25 28 28.14
1237	16 19 42.738	+19 16 09.32
1244	16 24 07.298	−18 20 40.08
1252	16 28 04.105	+21 35 50.16
1298	16 51 00.905	+82 07 21.54
1308	16 43 45.610	+86 31 58.37
1319	17 23 58.550	−05 02 38.50
1326	17 32 36.697	+12 35 41.94
1339	17 38 03.064	+46 01 55.28
1408	18 21 28.502	+71 18 42.09
1497	18 41 37.182	−01 36 21.90
1514	18 43 02.931	+37 33 06.40
1515	18 41 39.774	+55 29 17.40
1538	18 49 44.326	+13 54 15.54
1554	18 51 58.664	+36 54 29.44
1606	19 04 37.292	+10 59 34.00
1643	19 12 03.285	+39 03 32.22
1646	19 14 04.46	+00 02 13.3
1738	19 32 59.586	−24 49 48.90
1756	19 36 24.	+12 09 06.
1757	19 36 43.539	+05 16 56.69
1804	19 46 56.044	+33 18 40.04
1812	19 48 54.286	+40 28 17.88
1847	19 56 21.	+16 33 06.
1876	20 08 21.611	+36 01 39.80
1895	20 15 08.535	+37 16 03.40
1902	20 17 13.390	+46 09 52.89

Zi

Zi	α_{1950}	δ_{1950}
1903	20 17 42.595	+38 34 24.27
1906	20 21 42.289	−56 53 50.02
1938	20 39 43.539	+45 06 03.12
1953	20 47 21.142	+07 40 37.88
1963	20 51 28.521	+44 11 49.78
1972	20 58 07.395	+47 19 30.08
1978	21 03 06.589	+43 43 39.33
1987	21 06 31.463	+30 00 09.40
2001	21 15 26.951	+39 11 03.50
2046	21 48 36.187	+12 23 27.65
2072	22 06 39.437	+45 29 45.72
2082	22 16 04.60	+54 12 59.4
2119	22 59 36.882	+42 03 25.50
2144	23 27 42.766	+58 16 23.18
2164	23 52 41.682	−32 11 59.56

Zi

Zi	α_{1950}	δ_{1950}

ID	α_{1950}	δ_{1950}
0623+711	06 23 46.53	+71 06 34.4
1329−294	13 29 05.52	−29 25 33.6
2138−453	21 38 10.77	−45 18 12.5
209 BAC	19 09 16.46	+16 46 36.0
2CG 065+00	19 53 26.7311	+29 00 43.734
2CG 135+01	01 14 41.693	+65 01 43.04
4C 04.66	19 09 21.282	+04 53 54.27
AB 3	00 48 14.2	−73 38 22.
AB 5	00 57 45.98	−72 26 04.8
AB 6	01 01 47.87	−72 22 49.4
AB 7	01 01 58.36	−72 19 28.5
AB 8	01 29 57.61	−73 40 31.2
Abell 35 (nuc)	12 50 52.905	−22 36 06.03
AE-1	13 20 50.	−41 28 56.
AFGL 21	00 06 29.735	+58 52 26.77
AFGL 112	00 46 03.907	+57 33 02.76
AFGL 294	02 00 49.974	+42 05 31.16
AFGL 443	03 04 54.356	+40 45 52.46
AFGL 497	03 30 34.355	−09 37 34.76
AFGL 513	03 40 51.035	−09 55 53.05
AFGL 713	05 12 59.466	+45 56 58.04
AFGL 924	06 20 17.110	−33 24 35.76
AFGL 975	06 34 49.396	+16 26 37.40
AFGL 1144A	07 31 24.673	+32 00 00.53
AFGL 1144B	07 31 24.635	+31 59 57.61
AFGL 1174	07 40 11.374	+29 00 22.23
AFGL 1216	07 58 40.698	−01 15 08.75
AFGL 1289	08 44 07.508	+06 36 11.91
AFGL 1360	09 30 05.838	+70 03 06.47
AFGL 1411	10 19 21.469	+41 45 06.25
AFGL 1555	12 27 55.874	+69 28 40.81
AFGL 1622	13 22 33.301	−10 54 03.36
AFGL 1845	16 18 08.667	−25 28 28.14
AFGL 2373	19 18 51.834	−16 03 01.82
AFGL 2555	20 18 12.200	−14 56 26.57
AFGL 2608	20 31 57.382	+35 04 43.09
AFGL 2633	20 39 43.539	+45 06 03.12
AFGL 2703	21 03 06.589	+43 43 39.33
AFGL 2748	21 17 52.610	+58 24 41.39
AFGL 3122	23 35 06.520	+46 11 13.83
AFGL 4118	10 53 58.015	−60 07 30.74
AFGL 1621S	13 21 54.916	+55 11 09.46
AFGL 2120S	18 16 19.810	−11 39 16.24
AFGL 2468S	19 48 54.847	+22 28 53.89
AFGL 4052S	00 44 40.968	+23 59 43.95
AFGL 4058S	00 49 24.795	+53 35 26.75
AFGL 4428S	05 33 40.476	−01 13 56.30
AFGL 4751S	09 38 29.008	+10 07 14.64
AFGL 5235S	18 22 42.706	−12 43 09.24
AFGL 5305S	18 48 13.936	+33 18 12.51
AFGL 5556S	20 55 34.01	+25 18 47.6
AFGL 7180S	21 44 16.993	−16 21 18.42
AL-376	05 39 17.84	−69 07 37.3

Miscellaneous

ID	α_{1950}	δ_{1950}
ARM 33	00 57 45.98	−72 26 04.8
ARM 51	01 01 47.87	−72 22 49.4
Archer 3	12 18 52.29	+25 57 08.1
Archer 4	12 29 16.99	+22 46 51.4
Archer 5	12 32 35.53	+23 36 45.5
Archer 7	12 32 18.928	+27 06 16.26
Archer 11	12 05 03.135	+26 10 39.81
Archer 17	12 33 20.65	+23 42 35.7
Archer 19	12 27 00.892	+29 47 20.00
Archer 20	12 20 37.805	+26 07 42.83
Archer 21	12 18 33.925	+25 59 51.52
AS 202	08 30 43.51	−37 48 46.2
AS 422	20 30 17.9	+40 38 16.
AS 438	20 39 54.358	+52 24 29.00
AzV 60A	00 48 14.2	−73 38 22.
AzV 73	00 48 39.8	−73 19 37.
AzV 229	00 57 45.98	−72 26 04.8
AzV 332	01 01 47.87	−72 22 49.4
AzV 336A	01 01 58.36	−72 19 28.5
Babcock 8	02 23 37.678	−15 33 54.52
Babcock 15	04 03 32.054	+27 27 59.58
BE-45	05 26 10.14	−67 32 25.2
BE-278	05 26 47.66	−68 52 52.9
BE-383	05 36 20.69	−69 13 35.0
BE-410	05 38 09.57	−69 06 44.3
BE-421	05 39 17.84	−69 07 37.3
BE-559	05 19 40.40	−69 42 16.6
BE-569	05 23 07.39	−71 38 40.8
BH 16-31	12 40 53.23	−62 48 49.4
BPM 6114	09 57 48.	−66 39
BPM 31852	04 19 36.	−48 46 06.
BPM 56555	12 49 42.72	−28 58 40.7
BPM 71214	03 31 26.	−09 01
BPM 87501	11 35 53.01	+03 38 46.9
BPM 94172	19 19 23.	+14 34 54.
Brey 22	05 19 40.40	−69 42 16.6
Brey 26	05 23 07.39	−71 38 40.8
Brey 28	05 23 52.12	−71 23 29.9
Brey 31	05 26 10.14	−67 32 25.2
Brey 32	05 26 47.66	−68 52 52.9
Brey 65	05 36 20.69	−69 13 35.0
Brey 72	05 38 09.57	−69 06 44.3
Brey 82	05 39 03.476	−69 07 35.21
Brey 86	05 39 02.90	−69 06 30.3
Brey 87a2	05 39 02.11	−69 06 45.5
Brey 90	05 39 17.84	−69 07 37.3
Brun 587	05 32 48.356	−05 25 07.95
Brun 595	05 32 48.669	−05 25 00.57
Brun 682	05 32 55.469	−05 26 50.89
Brun 747	05 33 03.747	−05 17 54.89
CAL 8?	05 01 06.1	−70 09 32.
CAL 49	05 32 47.3	−66 24 13.
CAL 78	05 40 05.5	−69 46 03.6
CAL G	05 35 42.4	−66 53 39.

ID	α_{1950}	δ_{1950}	ID	α_{1950}	δ_{1950}
Case 1	12 13 16.33	+52 47 48.4	EG 11	01 35 26.21	−05 14 41.5
			EG 20	02 32 31.00	+03 30 51.9
			EG 38	04 29 29.79	+17 38 45.2
			EG 87	12 13 16.33	+52 47 48.4
			EG 91	12 32 28.33	+37 54 14.5
CBS 31	10 51 45.5	+30 22 48.	EG 136	20 05 20.57	+17 33 30.0
CBS 132	10 52 19.0	+37 15 48.	EG 159	23 26 15.94	+04 58 34.6
CBS 354	12 32 28.33	+37 54 14.5	EG 201	19 19 23.	+14 34 54.
Corvus CV	12 17 48.64	−18 10 22.9	FBS 1031+590	10 30 37.6	+59 02 22.
Cr 228-1	10 42 04.458	−59 36 41.58	FD 21	05 19 40.40	−69 42 16.6
Cr 228-5	10 42 15.45	−59 47 34.6	FD 24	05 23 07.39	−71 38 40.8
Cr 228-27	10 41 20.257	−59 56 18.50	FD 26	05 23 52.12	−71 23 29.9
Cr 228-31	10 41 20.20	−59 35 20.3	FD 28	05 26 10.14	−67 32 25.2
Cr 228-33	10 42 27.048	−59 43 49.19	FD 29	05 26 47.66	−68 52 52.9
Cr 228-33	10 42 27.048	−59 43 49.19	FD 55	05 36 20.69	−69 13 35.0
Cr 228-36	10 42 40.81	−59 45 24.7	FD 62	05 38 09.57	−69 06 44.3
Cr 228-82	10 43 50.01	−59 49 24.3	FD 66	05 39 03.476	−69 07 35.21
Cr 228-93	10 44 56.97	−59 48 50.8	FD 68	05 39 02.11	−69 06 45.5
			FD 71	05 39 17.84	−69 07 37.3
CS 22176-2	03 31 26.	−09 01	Feige 24	02 32 31.00	+03 30 51.9
CW 1103+254	11 02 58.5	+25 22 42.	Florsch 382	00 57 45.98	−72 26 04.8
DHK 9	03 23 07.509	+40 17 02.83	Fornax DN	03 24 49.	−34 37 00.
DHK 11	02 17 45.610	+54 16 54.43			
DHK 14	04 55 49.751	+24 25 14.37			
DHK 16	09 41 19.491	+25 35 02.80			

Miscellaneous

ID	α_{1950}	δ_{1950}	ID	α_{1950}	δ_{1950}
FSV 113211	11 32 14.98	−11 28 53.1	GR 292	01 33 45.	+31 45 30.
G 6-20	03 34 10.194	+25 49 51.24	Gr 389	13 03 16.	+18 17 04.2
G 8-44	04 33 41.765	+27 02 01.03			
G 29-37	23 25 12.66	+04 34 34.6			
G 29-38	23 26 15.94	+04 58 34.6			
G 30-52	00 09 54.612	+14 17 11.48			
G 39-28	04 33 41.765	+27 02 01.03	Grus-V1	21 34 45.2	−43 55 46.
G 48-39	09 47 08.650	+11 20 27.63			
G 60-57	12 58 17.75	+12 38 42.7			
G 61-29	13 03 16.00	+18 17 04.2			
G 116-23	09 19 17.443	+40 25 11.74			
G 123-75	12 55 19.20	+35 29 49.5	Hamuy's vbl	05 13 53.16	−00 15 28.5
G 151-62	15 25 26.995	−09 10 13.82			
G 152-27	15 25 26.995	−09 10 13.82			
G 164-32	12 55 19.20	+35 29 49.5			
G 180-42	16 12 48.252	+33 59 02.62			
G 210-48	20 58 08.601	+39 52 39.58	Hanson 528	04 29 29.79	+17 38 45.2
G 227-36	18 32 44.674	+51 40 59.90			
G 261-28	20 38 02.972	+75 24 57.96			
G 271-115	01 35 26.21	−05 14 41.5			
GD 219	19 19 23.	+14 34 54.	HBV 305	19 25 13.37	+28 50 43.1
GD 552	22 48 45.2	+63 12 43.0	HBV 447	06 43 13.331	+02 33 11.10
GD 1401	01 45 49.	−25 47 36.	HBV 477	19 54 39.43	+29 51 25.1
GD 1662	23 26 21.5	−30 03 17.	HBV 478	21 42 13.88	+53 29 32.2
GH 7-23	03 47 33.42	+17 05 46.2	Hen S 28	00 57 45.98	−72 26 04.8
GH 7-255	04 29 29.79	+17 38 45.2	Hen S 161	05 23 07.39	−71 38 40.8
GR 17	23 27 21.710	+43 28 31.93	HH 124	16 37 49.66	−48 40 39.0
GR 91	01 34 01.700	+50 42 04.80	HH 667	16 37 40.733	−48 39 29.31
GR 102	11 49 38.2	+49 31 36.	HH 680	16 37 07.60	−48 43 03.2
GR 151	08 25 15.	+25 31	HH 690	16 38 15.33	−48 36 50.8
GR 221	19 51 46.17	+35 13 51.15	HH 696	16 35 45.457	−48 45 09.63

ID	α_{1950}	δ_{1950}	ID	α_{1950}	δ_{1950}
Case 1	12 13 16.33	+52 47 48.4	EG 11	01 35 26.21	−05 14 41.5
			EG 20	02 32 31.00	+03 30 51.9
			EG 38	04 29 29.79	+17 38 45.2
			EG 87	12 13 16.33	+52 47 48.4
			EG 91	12 32 28.33	+37 54 14.5
CBS 31	10 51 45.5	+30 22 48.	EG 136	20 05 20.57	+17 33 30.0
CBS 132	10 52 19.0	+37 15 48.	EG 159	23 26 15.94	+04 58 34.6
CBS 354	12 32 28.33	+37 54 14.5	EG 201	19 19 23.	+14 34 54.
Corvus CV	12 17 48.64	−18 10 22.9	FBS 1031+590	10 30 37.6	+59 02 22.
Cr 228-1	10 42 04.458	−59 36 41.58	FD 21	05 19 40.40	−69 42 16.6
Cr 228-5	10 42 15.45	−59 47 34.6	FD 24	05 23 07.39	−71 38 40.8
Cr 228-27	10 41 20.257	−59 56 18.50	FD 26	05 23 52.12	−71 23 29.9
Cr 228-31	10 41 20.20	−59 35 20.3	FD 28	05 26 10.14	−67 32 25.2
Cr 228-33	10 42 27.048	−59 43 49.19	FD 29	05 26 47.66	−68 52 52.9
Cr 228-33	10 42 27.048	−59 43 49.19	FD 55	05 36 20.69	−69 13 35.0
Cr 228-36	10 42 40.81	−59 45 24.7	FD 62	05 38 09.57	−69 06 44.3
Cr 228-82	10 43 50.01	−59 49 24.3	FD 66	05 39 03.476	−69 07 35.21
Cr 228-93	10 44 56.97	−59 48 50.8	FD 68	05 39 02.11	−69 06 45.5
			FD 71	05 39 17.84	−69 07 37.3
CS 22176-2	03 31 26.	−09 01	Feige 24	02 32 31.00	+03 30 51.9
CW 1103+254	11 02 58.5	+25 22 42.	Florsch 382	00 57 45.98	−72 26 04.8
DHK 9	03 23 07.509	+40 17 02.83	Fornax DN	03 24 49.	−34 37 00.
DHK 11	02 17 45.610	+54 16 54.43			
DHK 14	04 55 49.751	+24 25 14.37			
DHK 16	09 41 19.491	+25 35 02.80			

Miscellaneous

ID	α_{1950}	δ_{1950}	ID	α_{1950}	δ_{1950}
FSV 113211	11 32 14.98	−11 28 53.1	GR 292	01 33 45.	+31 45 30.
G 6-20	03 34 10.194	+25 49 51.24	Gr 389	13 03 16.	+18 17 04.2
G 8-44	04 33 41.765	+27 02 01.03			
G 29-37	23 25 12.66	+04 34 34.6			
G 29-38	23 26 15.94	+04 58 34.6			
G 30-52	00 09 54.612	+14 17 11.48			
G 39-28	04 33 41.765	+27 02 01.03	Grus-V1	21 34 45.2	−43 55 46.
G 48-39	09 47 08.650	+11 20 27.63			
G 60-57	12 58 17.75	+12 38 42.7			
G 61-29	13 03 16.00	+18 17 04.2			
G 116-23	09 19 17.443	+40 25 11.74			
G 123-75	12 55 19.20	+35 29 49.5	Hamuy's vbl	05 13 53.16	−00 15 28.5
G 151-62	15 25 26.995	−09 10 13.82			
G 152-27	15 25 26.995	−09 10 13.82			
G 164-32	12 55 19.20	+35 29 49.5			
G 180-42	16 12 48.252	+33 59 02.62			
G 210-48	20 58 08.601	+39 52 39.58	Hanson 528	04 29 29.79	+17 38 45.2
G 227-36	18 32 44.674	+51 40 59.90			
G 261-28	20 38 02.972	+75 24 57.96			
G 271-115	01 35 26.21	−05 14 41.5			
GD 219	19 19 23.	+14 34 54.	HBV 305	19 25 13.37	+28 50 43.1
GD 552	22 48 45.3	+63 12 42.9	HBV 447	06 43 13.331	+02 33 11.10
GD 1401	01 45 49.	−25 47 36.	HBV 477	19 54 39.43	+29 51 25.1
GD 1662	23 26 21.5	−30 03 17.	HBV 478	21 42 13.88	+53 29 32.2
GH 7-23	03 47 33.42	+17 05 46.2	Hen S 28	00 57 45.98	−72 26 04.8
GH 7-255	04 29 29.79	+17 38 45.2	Hen S 161	05 23 07.39	−71 38 40.8
GR 17	23 27 21.710	+43 28 31.93	HH 124	16 37 49.66	−48 40 39.0
GR 91	01 34 01.700	+50 42 04.80	HH 667	16 37 40.733	−48 39 29.31
GR 102	11 49 38.2	+49 31 36.	HH 680	16 37 07.60	−48 43 03.2
GR 151	08 25 15.	+25 31	HH 690	16 38 15.33	−48 36 50.8
GR 221	19 51 46.17	+35 13 51.15	HH 696	16 35 45.457	−48 45 09.63

ID	α_{1950}	δ_{1950}	ID	α_{1950}	δ_{1950}
Hoffleit 213	18 37 08.33	−24 33 52.3	IC 4665-58	17 43 29.945	+05 42 47.12
			IC 4665-64	17 43 43.758	+05 40 35.84
			IC 4665-76	17 44 19.434	+05 34 57.41
			IC 4665-82	17 44 35.061	+05 42 33.23
			IC 4665-105	17 46 16.265	+05 42 59.48
Hogg 15-3	12 40 53.23	−62 48 49.4	KPD 1911+212	19 11 35.	+12 12 37.
HRC 297	20 50 26.65	+44 08 04.5	Krzeminski's *	11 19 01.9	−60 20 57.
HZ 9	04 29 29.79	+17 38 45.2	KUV 0429+176	04 29 29.79	+17 38 45.2
HZ 22	12 12 17.71	+36 55 29.8	KUV 06126+2836	06 12 33.75	+28 36 10.3
HZ 29	12 32 28.33	+37 54 14.5	KUV 08599+4130	08 59 53.79	+41 29 39.8
IC 1805-148	02 28 54.018	+61 14 08.89	L 143	00 48 14.2	−73 38 22.
			L 205	05 23 07.39	−71 38 40.8
			L 209	05 23 52.12	−71 23 29.9
			L 264?	05 30 13.	−71 02 00.
			L 353	00 57 45.98	−72 26 04.8
IC 2391-16	08 38 32.028	−52 52 36.32	L 101-26	09 57 48.	−66 39
IC 2391-20	08 38 51.636	−52 44 37.11	L 302-89	04 19 36.	−48 46 06.
IC 2391-34	08 40 59.363	−52 56 01.48	L 870-2	01 35 26.21	−05 14 41.5
			L 1239-76	04 29 29.79	+17 38 45.2
			L 1490-24	16 12 48.252	+33 59 02.62
IC 2602-37	10 41 10.052	−64 07 55.36	Lanning 10	05 30 09.77	+36 54 29.4
IC 2602-49	10 44 39.915	−63 59 58.06	Lanning 90	20 22 09.	+46 20 40.
IC 2944-31	11 35 11.924	−63 04 14.28	LB 1800	06 09 15.9	−48 43 45.
IC 2944-55	11 36 49.17	−63 08 37.5	LB 3459	05 32 08.18	−69 55 06.7

Miscellaneous

ID	α_{1950}	δ_{1950}	ID	α_{1950}	δ_{1950}
LFT 142	01 35 26.21	−05 14 41.5	LP 648-24	01 35 26.21	−05 14 41.5
LFT 349	04 19 36.	−48 46 06.			
LFT 641	09 19 17.443	+40 25 11.74			
LFT 964	12 58 17.75	+12 38 42.7			
LFT 1558	20 38 02.972	+75 24 57.96			
LFT 1591	20 58 08.627	+39 52 40.12	LTT 1951	04 19 36.	−48 46 06.
			LTT 6180	15 25 26.995	−09 10 13.82
			LTT 10065	00 09 54.612	+14 17 11.48
			LTT 11192	03 34 10.194	+25 49 51.24
			LTT 11465	04 33 41.765	+27 02 01.03
LHS 1270	01 35 26.21	−05 14 41.5	LTT 12609	09 47 08.650	+11 20 27.63
LHS 1660	04 19 36.	−48 46 06.	LTT 14836	16 12 48.252	+33 59 02.62
			LTT 15477	18 32 44.674	+51 40 59.90
			LTT 16900	23 25 12.66	+04 34 34.6
			LTT 16907	23 26 15.94	+04 58 34.6
Libra DN	15 07 31.10	−01 44 01.7	LTT 18284	13 03 16.00	+18 17 04.2
LkHα 170	20 50 26.65	+44 08 04.5	M 64	18 25 14.	−15 56 45.
LMV 146	05 43 59.5	−68 41 14.	M67-186	08 48 43.1	+11 58 14.
LMV 156	04 57 10.1	−66 38 27.			
LMV 251	05 10 00.2	−69 24 06.			
LMV 395	05 25 17.5	−68 33 46.			
LMV 428	05 27 31.41	−67 14 16.1			
LMV 522	05 32 59.1	−68 26 36.	Mel 20-383	03 15 03.309	+50 02 26.55
LMV 622	05 40 15.2	−69 16 59.	Mel 20-774	03 24 29.041	+48 53 24.91
LMV 898	05 20 11.8	−68 18 05.	Mel 20-775	03 24 24.530	+47 33 47.66
LMV 1003	05 34 21.6	−66 46 13.	Mel 20-934	03 27 54.488	+49 02 24.24
LMV 1241	05 38 15.8	−72 19 33.			
LMV 1278	04 53 17.5	−70 22 38.	Mel 22-468	03 41 54.055	+23 57 27.82
LMV 1436	05 31 05.3	−66 36 48.	Mel 22-739	03 42 42.7	+24 45 06.
LMV 1452	05 41 40.7	−71 19 14.	Mel 22-801	03 42 51.373	+22 59 32.97
LMV 1520	04 42 46.5	−70 04 07.	Mel 22-1314	03 44 12.2	+24 57 51.
			Mel 22-1431	03 44 30.587	+24 08 07.14

Miscellaneous

ID	α_{1950}	δ_{1950}	ID	α_{1950}	δ_{1950}
Mel 22-1432	03 44 30.424	+23 57 07.57	MWC 294	18 22 24.821	−14 00 26.18
Mel 22-1883	03 45 30.2	+23 08 57.	MWC 295	18 22 42.706	−12 43 09.24
Mel 22-2034	03 45 50.6	+23 49 33.	MWC 306	18 48 13.936	+33 18 12.51
			MWC 313	19 18 51.834	−16 03 01.82
			MWC 322	19 47 51.889	+07 46 29.79
Mel 25-34	04 18 03.740	+13 44 47.42	MWC 339	20 17 16.236	+37 36 41.93
Mel 25-38	04 19 14.250	+13 57 37.10	MWC 351	20 39 43.539	+45 06 03.12
Mel 25-40	04 19 53.799	+14 56 25.18	MWC 359	20 58 07.395	+47 19 30.08
Mel 25-45	04 20 32.670	+16 39 43.80	MWC 360	20 59 26.089	+45 57 31.22
Mel 25-72	04 25 48.214	+15 45 41.88	MWC 365	21 15 56.356	+58 24 03.42
Mel 25-121	04 47 56.057	+16 07 35.05	MWC 379	21 48 36.187	+12 23 27.65
Mel 25-130	05 06 34.444	+09 46 01.19	MWC 380	21 52 21.867	+62 22 39.81
Mel 25-140	04 22 04.193	+04 35 09.36	MWC 397	23 04 51.062	+49 55 18.26
			MWC 467	04 00 49.539	+27 59 22.76
			MWC 504	05 33 40.476	−01 13 56.30
Mel 111-71	12 17 48.976	+26 53 54.44	MWC 507	05 35 47.963	+26 17 18.02
Mel 111-80	12 18 33.925	+25 59 51.52	MWC 509	05 38 14.044	−01 58 03.05
Mel 111-97	12 20 37.805	+26 07 42.83	MWC 598	18 10 46.324	−21 04 25.46
Mel 111-111	12 22 31.887	+25 50 15.38	MWC 608	18 45 35.976	+52 55 56.41
Mel 111-149	12 26 57.037	+24 23 06.37	MWC 624	19 58 05.074	+36 54 16.84
Mel 111-B7	12 18 52.29	+25 57 08.1	MWC 827	06 52 10.273	−01 41 31.75
			MWC 860	11 10 45.689	−26 11 34.26
			MWC 861	13 34 42.10	+52 10 04.2
			MWC 1075	22 51 18.386	+61 52 46.53
MHα 328-53	20 30 17.9	+40 38 16.	N44C1-2	05 22 23.1	−68 01 20.
MWC 1	00 03 26.837	+63 24 05.25	NGC 1502-2	04 03 23.893	+62 11 59.14
MWC 8	00 41 55.654	+48 00 40.00			
MWC 16	01 40 30.757	+50 26 15.92			
MWC 81	04 05 01.311	+47 34 51.78			
MWC 115	05 34 39.263	+21 06 50.00			
MWC 178	07 24 26.357	+08 23 29.89	NGC 2244-34	06 29 21.30	+04 54 54.1
MWC 215	10 53 58.015	−60 07 30.74			
MWC 222	12 31 21.550	+70 03 48.96			
MWC 241	16 24 07.298	−18 20 40.08			
MWC 274	17 52 59.793	−32 28 06.35			

Miscellaneous

ID	α_{1950}	δ_{1950}	ID	α_{1950}	δ_{1950}
NGC 2264-50	06 37 43.434	+09 51 54.72	NGC 6281-2	17 00 32.697	−37 46 28.76
NGC 2264-74	06 37 53.245	+09 50 06.93			
NGC 2451-203	07 39 30.268	−38 24 56.59	NGC 6383-1	17 31 26.314	−32 32 56.46
NGC 2451-268	07 44 31.772	−37 46 25.62			
NGC 2632-244	08 37 10.291	+19 10 39.16	NGC 6475-42	17 49 35.252	−35 00 29.22
			NGC 6475-59	17 50 02.726	−35 00 23.38
			NGC 6475-63	17 50 09.20	−34 40 54.6
			NGC 6475-72	17 50 16.89	−34 43 36.3
			NGC 6475-77	17 50 24.00	−34 47 04.8
NGC 4103-1	12 03 31.46	−60 58 42.4	NGC 6475-86	17 50 34.637	−34 44 35.62
			NGC 6475-104	17 50 54.378	−34 43 06.20
NGC 4755-I-6	12 50 37.653	−60 05 09.62	NGC 6530-118	18 02 06.467	−24 24 10.84
NGC 4755-II-23	12 50 47.27	−60 03 37.5			
NGC 6193-1	16 37 35.138	−48 40 01.19	NGC 6633-102	18 25 32.158	+06 09 43.34
NGC 6193-5	16 37 49.66	−48 40 39.0			
NGC 6193-7	16 37 40.733	−48 39 29.31			
NGC 6193-27	16 38 15.33	−48 36 50.8			
NGC 6231-2	16 50 29.301	−41 38 00.94	NGC 6871-1	20 04 04.633	+35 38 38.28
NGC 6231-220	16 50 48.747	−41 44 20.88	NGC 6871-31	20 04 42.130	+35 35 44.25
NGC 6231-224	16 50 48.88	−41 45 18.7			
NGC 6231-254	16 50 24.570	−41 47 59.48			
NGC 6231-291	16 50 39.035	−41 44 39.16			
NGC 6231-292	16 50 42.242	−41 45 40.46	NGC 6882-2	20 08 28.223	+26 45 17.59

ID	α_{1950}	δ_{1950}
NGC 7128-5	21 42 13.88	+53 29 32.2
NGC 7160-2	21 52 21.867	+62 22 39.81
NGC 7380-2	22 44 54.272	+57 49 13.60
OV 25	20 15 11.565	+38 58 59.53
OV 26	20 29 13.983	+38 36 55.18
OV 29	23 46 22.67	+51 10 59.0
PB 7131	22 15 17.40	−08 36 05.04
PG 0027+260	00 27 27.8	+26 00 48.
PG 0134+070	01 34 18.2	+07 01 09.
PG 0232+035	02 32 31.00	+03 30 51.9
PG 0244+104	02 44 54.5	+10 23 14.
PG 0308+096	03 08 12.9	+09 38 09.
PG 0585+181	08 58 14.34	+18 05 44.1
PG 0808+627	08 08 05.401	+62 45 22.74
PG 0818+513	08 18 53.4	+51 15 01.
PG 0834+488	08 34 48.5	+48 48 37.
PG 0849+580	08 49 52.485	+58 00 04.10
PG 0858+181	08 58 14.34	+18 05 44.1
PG 0900+401	09 00 06.5	+40 02 54.
PG 0917+342	09 17 08.4	+34 09 25.
PG 1003+678	10 03 08.870	+67 47 25.95
PG 1012−029	10 12 37.22	−02 53 35.1
PG 1026+002	10 26 00.9	+00 14 54.
PG 1030+590	10 30 37.6	+59 02 22.
PG 1038+155	10 38 11.4	+15 27 16.
PG 1101+453	11 01 35.61	+45 19 26.4
PG 1135+036	11 35 53.01	+03 38 46.9
PG 1140+719	11 40 48.88	+71 57 58.5
PG 1142−041	11 42 47.73	−04 09 24.9
PG 1212+369	12 12 17.71	+36 55 29.8
PG 1232+379	12 32 28.33	+37 54 14.5
PG 1241−084	12 41 44.61	−08 23 51.0
PG 1341−079	13 41 00.7	−07 59 03.
PG 1346+082	13 46 25.9	+08 12 27.
PG 1413+015	14 13 03.6	+01 31 13.
PG 1550+131	15 50 35.8	+13 03 35.
PG 1550+191	15 50 33.08	+19 05 17.7
PG 1551+719	15 51 18.0	+71 55 25.
PG 1642+253	16 42 05.994	+25 20 31.68
PG 1711+336	17 11 05.73	+33 34 48.5
PG 1717+413	17 17 00.9	+41 18 55.
PG 2326+049	23 26 15.94	+04 58 34.6
PG 2337+123	23 37 51.8	+12 21 02.
PHL 227	22 17 53.8	+01 45 46.
PHL 505	23 22 44.	−08 35 00.
PHL 538	23 26 21.5	−30 03 17.
PHL 1065	01 34 18.2	+07 01 09.
PHL 7450	01 35 26.21	−05 14 41.5
PK 303+40°1	12 50 52.905	−22 36 06.03
PKS 1925−524	19 25 46.	−52 26 18.

Miscellaneous

ID	α_{1950}	δ_{1950}
Plaskett's *	06 34 43.220	+06 10 44.47
Plaut 3-1040	18 26 53.	−32 07 48.
PS 74	22 46 55.5	−27 22 46.
PSR 0021−72A	00 21 53.	−72 21
PSR 0021−72E	00 21 53.	−72 21
PSR 0021−72J	00 21 53.	−72 21
PSR 0535−69	05 35 49.970	−69 17 57.92
PSR 0655+64	06 55 49.502	+64 22 23.130
PSR 0820+02	08 20 34.03	+02 08 54.3
PSR 1257+12 ab	12 57 33.126	+12 57 06.60
PSR 1257+12 ac	12 57 33.126	+12 57 06.60
PSR 1259−63	12 59 38.5	−63 33 59.
PSR 1310+18	13 10 28.	+18 26
PSR 1516+02B	15 16 01.	+02 16
PSR 1534+12	15 34 47.686	+12 05 45.23
PSR 1620−26	16 20 34.141	−26 24 58.06
PSR 1639+36B	16 39 54.	+36 33
PSR 1744−24A	17 44 57.70	−24 45 38.1
PSR 1802−07	18 02 07.	−07 35
PSR 1820−11	18 20 53.4	−11 16 45.
PSR 1829−10	18 29 55.01	−10 23 50.6
PSR 1831−00	18 31 43.25	−00 13 13.3
PSR 1855+09	18 55 13.690650	+09 39 13.5162
PSR 1913+16	19 13 12.4685	+16 01 08.163
PSR 1953+29	19 53 26.7311	+29 00 43.734
PSR 1957+20	19 57 25.03882	+20 40 00.7185
PSR 2127+11C	21 27 36.188	+11 57 26.27
PSR 2303+46	23 03 39.17	+46 51 31.8
R 14	00 57 45.98	−72 26 04.8
R 31	01 01 47.87	−72 22 49.4
R 90	05 19 40.40	−69 42 16.6
R 130	05 38 09.57	−69 06 44.3
R 136	05 39 03.476	−69 07 35.21
R 140	05 39 02.11	−69 06 45.5
R 145	05 39 17.84	−69 07 37.3
RE 001227+143324	00 09 54.612	+14 17 11.48
RE 003517−033558	00 32 40.390	−03 52 04.29
RE 023420−434709	02 32 28.419	−44 00 38.92
RE 235503+283806	23 52 29.081	+28 21 17.88
Ross 88	21 09 28.26	+09 01 56.4
Ross 346	01 42 06.915	+37 41 33.10
Ross pm 458	12 58 17.75	+12 38 42.7
RR V-22	02 28 21.	+39 28 08.
RR VI-39	07 35 14.	+40 16 42.
S 176	20 19 47.3	−21 17 31.
S 193	21 49 32.9	+13 52 43.
S 196	22 06 29.85	−04 01 01.4

Miscellaneous

ID	α_{1950}	δ_{1950}	ID	α_{1950}	δ_{1950}
Sk −67°104	05 26 10.14	−67 32 25.2	TH 14-19	19 01 20.36	−04 23 32.7
Sk −67°105	05 26 07.35	−67 09 38.8	TH 17-84	13 14 45.6	−62 10 19.
Sk −67°117	05 27 31.41	−67 14 16.1	TH 17-90	13 30 07.1	−62 03 36.
Sk −68° 80	05 26 47.66	−68 52 52.9			
Sk −69°106	05 19 40.40	−69 42 16.6			
Sk −69°202	05 35 49.97	−69 17 57.92	Ton 408	09 19 07.925	+31 16 03.90
Sk −69°209a	05 36 20.69	−69 13 35.0	Ton 1051	09 17 08.4	+34 09 25.
Sk −69°235	05 38 09.57	−69 06 44.3	Ton 1143	09 59 11.325	+34 05 30.80
Sk −69°243	05 39 03.476	−69 07 35.21			
Sk −69°248	05 39 17.84	−69 07 37.3			
Sk −71° 21	05 23 07.39	−71 38 40.8	Ton S120	23 47 33.73	−26 39 33.1
Sk −71° 26	05 23 52.12	−71 23 29.9	Ton S231	01 45 49.	−25 47 36.
Sk −71° 34	05 30 13.	−71 02 00.			
Sk 78	00 57 45.98	−72 26 04.8	Tr 14-20	10 41 50.55	−59 17 07.7
Sk 108	01 01 47.87	−72 22 49.4			
Sk 160	01 15 45.67	−73 42 23.3			
Sk 188	01 29 57.61	−73 40 31.2			
SN 1987A	05 35 49.970	−69 17 57.92	Tr 16-1	10 43 11.67	−59 25 01.6
			Tr 16-104	10 42 50.86	−59 28 05.1
			Tr 16-112	10 43 19.94	−59 27 48.8
SS 433	19 09 21.282	+04 53 54.27	US 943	09 43 26.0	+45 00 38.
Stepanian's *	15 35 45.00	+19 01 48.6	vA 673	04 29 29.79	+17 38 45.2
TAV 0023+39	02 26 22.18	+39 49 17.4	Ve 5-5	19 01 20.36	−04 23 32.7
			Ve 5-8	20 18 46.706	+43 41 42.90

Miscellaneous

ID	α_{1950}	δ_{1950}	ID	α_{1950}	δ_{1950}
vH 3	17 12 01.35	−65 29 42.6	Wr 135	05 44 51.095	+43 03 59.45
			Wr 136	23 24 42.935	+45 16 50.44
			Wr 160	21 39 03.	+48 26
VV 63	19 32 37.875	+31 25 34.25	Ws 17	01 29 57.61	−73 40 31.2
VV 64	19 46 31.645	+36 19 03.55			
VV 255	19 42 59.36	+35 52 15.4			
VV 279	20 04 15.760	+33 33 57.50			
VV 427	22 40 34.934	+53 09 20.58			
Vys 140	12 58 17.75	+12 38 42.7	WS 16	05 19 40.40	−69 42 16.6
Vys 200A	20 58 08.601	+39 52 39.58	WS 19	05 23 07.39	−71 38 40.8
Vys 298	12 55 19.20	+35 29 49.5	WS 21	05 23 52.12	−71 23 29.9
Vys 824A	20 42 03.756	−31 31 05.29	WS 23	05 26 10.14	−67 32 25.2
			WS 24	05 26 47.66	−68 52 52.9
W 7/25	05 39 17.84	−69 07 37.3	WS 38	05 36 20.69	−69 13 35.0
W 9/17	05 26 47.66	−68 52 52.9	WS 43	05 38 09.57	−69 06 44.3
			WS 47	05 39 17.84	−69 07 37.3
WD 0135−052	01 35 26.21	−05 14 41.5	Π 1863	05 32 48.669	−05 25 00.57
WD 0232+035	02 32 31.00	+03 30 51.9	Π 1865	05 32 48.356	−05 25 07.95
WD 0308+096	03 08 12.9	+09 38 09.	Π 1933	05 32 53.307	−04 31 30.89
WD 0347+171	03 47 33.42	+17 05 46.2	Π 1970	05 32 55.034	−04 52 10.86
WD 0419−487	04 19 36.	−48 46 06.	Π 1993	05 32 55.469	−05 26 50.89
WD 0429+176	04 29 29.79	+17 38 45.2	Π 2031	05 32 58.911	−05 26 52.21
WD 0957−666	09 57 48.	−66 39	Π 2074	05 33 03.747	−05 17 54.89
WD 1026+002	10 26 00.9	+00 14 54.	Π 2545	05 35 00.528	−05 58 02.16
WD 1213+528	12 13 16.33	+52 47 48.4			
WD 1303+182	13 03 16.00	+18 17 04.2			
WD 1413+015	14 13 03.6	+01 31 13.			
WD 1919+145	19 19 23.	+14 34 54.			
WD 1944−421	19 44 12.64	−42 07 51.5			
WD 2326+049	23 26 15.94	+04 58 34.6			
Wr 9	23 54 37.99	+62 43 40.0			
Wr 16	00 37 17.628	+49 57 53.84			
Wr 21	22 40 34.934	+53 09 20.58			
Wr 68	12 58 17.75	+12 38 42.7			
Wr 104	16 04 47.386	+27 24 33.36			

ADS	α_{1950}	δ_{1950}	ADS	α_{1950}	δ_{1950}
61 A	00 03 37.946	+58 09 29.61	2888 A	03 54 29.432	+39 52 02.54
94 A	00 05 47.841	+28 48 52.12	2944 D	04 00 49.539	+27 59 22.76
107 A	00 06 29.735	+58 52 26.77	2984 B	04 03 23.893	+62 11 59.14
191 A	00 12 24.138	+08 32 35.70	2990 A	04 03 43.447	+33 18 46.44
328 A	00 21 33.308	+51 44 34.74	2995 A	04 04 13.992	+37 56 41.15
490 A	00 32 40.390	−03 52 04.29	3085 B	04 12 45.952	+06 04 37.48
513 A	00 34 12.186	+33 26 39.75	3169 A	04 19 53.799	+14 56 25.18
622 A	00 41 55.654	+48 00 40.00	3228 A	04 24 42.955	+11 06 05.36
624 A	00 42 18.429	+74 42 54.68	3267 A	04 27 40.895	+72 25 26.83
671 A	00 46 03.907	+57 33 02.76	3317 A	04 32 54.244	+10 03 35.07
784 A	00 53 45.153	+60 05 33.50	3536 A	04 53 16.202	+53 40 27.79
830 A	00 57 44.960	+81 36 24.67	3698 A	05 04 17.196	−04 43 14.92
988 A	01 10 06.406	+31 48 38.37	3709 A	05 05 03.646	+24 12 02.80
995 B	01 11 01.311	+24 19 04.65	3824 A	05 12 08.799	+32 37 54.05
996 B	01 11 08.335	+07 18 52.03	3841 AB	05 12 59.466	+45 56 58.04
999 A	01 11 34.092	+60 40 30.80	3866 A	05 14 33.482	+20 04 48.20
1326 A	01 38 30.650	+25 29 38.52	3941 A	05 18 58.611	−00 27 52.47
1581 A	01 56 40.618	−23 09 44.85	4002 Aab	05 21 57.674	−02 26 29.65
1630 B	02 00 49.974	+42 05 31.16	4039 A	05 24 12.930	+03 03 14.26
1671 A	02 05 59.297	+40 33 28.73	4072 A	05 26 21.969	+35 20 10.96
1693 A	02 09 04.989	+44 25 32.18	4115 A	05 28 06.416	+05 54 41.79
1697 A	02 09 27.778	+30 04 10.44	4134 Aa	05 29 27.017	−00 20 04.41
1697 B	02 09 27.868	+30 04 14.14	4134 C	05 29 26.996	−00 19 11.93
1739 A	02 13 59.587	+33 59 47.81	4150 A	05 30 35.612	−01 45 05.11
1748 A	02 14 16.084	+56 24 38.60	4159 A	05 31 31.369	−01 04 07.23
1833 A	02 21 54.217	+61 19 28.35	4186 A	05 32 48.356	−05 25 07.95
1849 A	02 23 37.678	−15 33 54.52	4186 B	05 32 48.669	−05 25 00.57
1920 A	02 28 54.018	+61 14 08.89	4187 A	05 32 55.034	−04 52 10.86
1982 A	02 34 07.128	+24 25 50.90	4188 A	05 32 55.469	−05 26 50.89
2151 A	02 46 29.840	+17 15 27.29	4188 B	05 32 58.911	−05 26 52.21
2348 A	03 03 48.046	+81 16 50.48	4193 A	05 32 59.126	−05 56 28.26
2362 A	03 04 54.356	+40 45 52.46	4241	05 36 16.398	−02 37 17.58
2433 A	03 12 53.372	+34 30 18.42	4263 A	05 38 14.044	−01 58 03.05
2622 A	03 31 53.836	+31 51 04.16	4474 A	05 50 10.984	+27 36 08.48
2644 A	03 34 13.130	+00 25 32.96	4555 A	05 55 48.526	+01 50 01.00
2726 A	03 41 10.603	+32 07 53.49	4556 A	05 55 51.579	+44 56 40.69
2748 A	03 42 51.373	+22 59 32.97	4617 A	05 59 37.854	+09 38 56.35
2750 A	03 43 00.821	+05 53 41.52	4617 B	05 59 37.852	+09 38 56.27
2772 A	03 44 41.964	+33 26 48.35	5012 A	06 21 07.050	+04 37 11.68
2843 A	03 50 58.959	+31 44 12.55	5054 A	06 23 14.318	+18 47 20.98

ADS	α_{1950}	δ_{1950}	ADS	α_{1950}	δ_{1950}
5153 A	06 28 22.604	+11 17 15.24	8600 B	12 32 35.859	+18 39 07.47
5316 A	06 37 43.434	+09 51 54.72	8627 B	12 38 40.251	−12 44 26.80
5705 A	06 58 56.773	−03 02 43.49	8682 B	12 48 38.683	+83 41 22.40
5795 A	07 04 19.804	−11 12 55.96	8710 A	12 54 06.309	+54 22 10.96
5977 A	07 16 38.031	−24 51 42.75	8891 A	13 21 54.916	+55 11 09.46
6012 A	07 18 47.691	+55 22 40.73	8929 C	13 28 24.772	+24 29 25.23
6015 A	07 18 53.056	−26 52 08.01	9019 B	13 43 36.039	+05 21 56.68
6089 A	07 24 46.351	+21 32 56.88	9406 B	14 47 59.571	+48 55 35.48
6175 A	07 31 24.673	+32 00 00.53	9413 A	14 49 04.800	+19 18 24.60
6175 B	07 31 24.635	+31 59 57.61	9494 B	15 02 08.190	+47 50 53.10
6175 C	07 31 26.235	+31 58 50.36	9520 A	15 06 52.873	+63 18 26.92
6246 A	07 36 13.100	−25 15 00.39	9537 A	15 10 50.660	+62 02 32.88
6348 B	07 43 10.625	−14 33 48.31	9537 B	15 10 50.422	+62 02 48.65
6526 A	07 59 19.609	−08 27 13.65	9706 A	15 33 07.055	+64 04 22.39
6828 A	08 25 57.681	−02 21 00.72	9737 A	15 37 29.590	+36 47 49.58
6828 B	08 25 57.689	−02 21 00.60	9846 A	15 53 47.482	−29 04 10.92
6872 A	08 31 02.587	+74 53 49.46	9862 A	15 55 49.301	−25 58 18.14
6886 A	08 33 11.523	+06 47 45.07	9913 A	16 02 31.507	−19 40 12.45
6993 C	08 44 07.508	+06 36 11.91	9951 A	16 09 05.107	−19 19 56.51
7006 A	08 45 47.114	+06 01 24.82	9979 A	16 12 48.252	+33 59 02.62
7050 A	08 49 06.951	−06 59 19.68	10009 A	16 18 08.667	−25 28 28.14
7438 A	09 32 15.317	+40 11 12.01	10022 A	16 19 42.738	+19 16 09.32
7441 A	09 32 39.994	+36 02 14.94	10116 A	16 31 32.105	+30 36 09.91
7480 A	09 38 29.008	+10 07 14.64	10242 A	16 51 00.905	+82 07 21.54
7494 A	09 40 15.413	+56 10 56.29	10408 A	17 11 43.180	+16 24 27.89
7500 A	09 40 51.573	+02 51 25.03	10417 C	17 13 08.682	−26 28 33.11
7837 A	10 32 24.801	+08 54 33.57	10428 A	17 13 59.357	+01 15 53.07
7855 A	10 35 04.695	+60 23 14.87	10449 A	17 15 28.612	+33 09 10.07
7942 A	10 47 47.457	−08 37 56.58	10749 A	17 42 00.614	+14 25 48.97
8024 A	10 59 34.162	+10 09 53.23	10783 A	17 44 19.434	+05 34 57.41
8115 A	11 14 26.026	−06 51 41.86	11060 A	18 03 42.272	+21 26 26.17
8119 B	11 15 31.120	+31 48 37.87	11060 AB	18 03 42.272	+21 26 26.17
8138 A	11 18 56.573	−20 10 41.13	11061 B	18 03 47.520	+79 59 48.27
8189 A	11 28 07.900	+41 33 50.35	11169 A	18 10 46.324	−21 04 25.46
8220 A	11 32 06.389	+17 04 23.44	11213 A	18 13 48.337	+56 34 13.96
8242 A	11 34 42.34	+47 44 23.8	11219 A	18 14 14.17	+41 05 35.2
8347 A	11 52 29.996	+46 45 18.12	11311 A	18 21 28.502	+71 18 42.09
8428 A	12 04 38.357	+69 21 14.88	11353 Ab	18 24 38.902	+00 09 53.73
8472 A	12 11 47.877	+12 05 54.90	11639 A	18 43 02.931	+37 33 06.40
8570 A	12 27 00.892	+29 47 20.00	11667 A	18 43 53.644	−01 00 56.62

ADS

ADS	α_{1950}	δ_{1950}
11698 A	18 46 12.064	+49 22 32.22
11745 A	18 48 13.936	+33 18 12.51
11745 B	18 48 15.823	+33 17 33.39
12019 A	19 02 46.279	+57 22 52.44
12061 A	19 05 31.990	+32 25 18.48
12075 A	19 06 05.367	+38 50 52.85
12197 A	19 12 03.285	+39 03 32.22
12214 A	19 12 28.524	−25 20 40.36
12239 B	19 13 55.995	+27 21 59.40
12243 A	19 14 03.958	+21 18 03.00
12352 A	19 19 35.300	+25 28 44.08
12538 A	19 28 39.676	−02 12 59.60
12737 A	19 36 43.539	+05 16 56.69
13072 A	19 51 18.212	−24 04 00.88
13256 A	19 59 03.538	+10 36 33.14
13374 A	20 04 04.633	+35 38 38.28
13405 A	20 05 30.742	+35 34 20.72
13429 A	20 07 20.809	+35 20 10.51
13438 A	20 07 35.981	+10 12 05.66
13641 A	20 15 08.535	+37 16 03.40
13711 A	20 17 48.291	+38 10 39.06
13736 A	20 18 46.706	+43 41 42.90
14027 A	20 31 58.405	+45 00 11.99
14172 A	20 39 43.539	+45 06 03.12
14499 A	20 56 34.570	+04 06 02.09
14526 A	20 58 07.395	+47 19 30.08
14549 A	20 59 26.089	+45 57 31.22
14636 A	21 04 39.935	+38 29 59.10
14673 A	21 05 58.573	+48 39 11.34
14682 A	21 06 31.463	+30 00 09.40
14832 A	21 15 56.356	+58 24 03.42
14839 A	21 16 09.806	+11 21 30.02
14864 A	21 17 52.610	+58 24 41.39
14893 B	21 18 55.406	+10 07 10.24
14943 A	21 21 53.419	+25 05 48.62
14977 A	21 24 17.421	+13 28 14.79
15032 A	21 28 01.326	+70 20 27.85
15184 A	21 37 24.390	+57 15 44.56
15275 A	21 42 05.932	+28 33 07.71
15281 B	21 42 22.714	+25 24 51.41

ADS

ADS	α_{1950}	δ_{1950}
15314 A	21 44 16.993	−16 21 18.42
15366 A	21 47 58.623	+66 33 33.04
15405 A	21 50 19.323	+55 33 40.38
15434 A	21 52 21.867	+62 22 39.81
15562 A	21 59 42.543	−17 12 21.87
15571 B	22 00 13.572	+82 37 51.47
15862 A	22 18 57.330	+46 17 03.55
15987 C	22 27 17.496	+58 08 51.88
16143 A	22 36 48.620	+37 06 53.25
16252 A	22 43 20.184	+67 51 55.48
16381 A	22 54 06.327	+41 20 11.95
16466 A	23 00 04.241	+62 14 34.90
16557 B	23 07 39.187	+47 41 13.25
16795 A	23 27 42.766	+58 16 23.18
16800 A	23 27 57.591	+30 33 22.27
17062 A	23 49 57.039	+75 15 57.16

Visual Binary

Binary	α_{1950}	δ_{1950}
4 Dra B	12 27 55.874	+69 28 40.81
125 Tau A	05 36 38.143	+25 52 15.31
A 280 A	20 05 30.742	+35 34 20.72
A 518 A	06 58 56.773	−03 02 43.49
A 551 A*	08 25 57.681	−02 21 00.72
A 551 B*	08 25 57.689	−02 21 00.60
A 617 B*	21 18 55.406	+10 07 10.24
A 1161 A	17 44 19.434	+05 34 57.41
A 1199 A	20 07 35.981	+10 12 05.66
A 1272 A	02 14 16.084	+56 24 38.60
A 1423 A	20 15 08.535	+37 16 03.40
A 1426 A	20 17 48.291	+38 10 39.06
A 1580 A	07 59 19.609	−08 27 13.65
A 1777 A*	11 52 29.996	+46 45 18.12
A 2715 A*	05 59 37.854	+09 38 56.35
A 2715 B*	05 59 37.852	+09 38 56.27
AGC 3 A	08 45 47.114	+06 01 24.82
AGC 15 A	00 06 29.735	+58 52 26.77
Anderson AB*	05 12 59.466	+45 56 58.04
Arg 33 A	19 02 46.279	+57 22 52.44
B A	13 24 04.276	−61 36 52.54
B A	21 48 46.938	−42 36 28.98

Binary	α_{1950}	δ_{1950}
B 430 A*	19 12 28.524	−25 20 40.36
B 582 A	22 57 42.167	−34 00 41.25
B 731 A	07 36 13.100	−25 15 00.39
B 1184	11 12 57.80	−60 59 16.2
B 1658 A	09 41 40.607	−50 59 54.52
B 1834 A	16 50 48.747	−41 44 20.88
B 1835 A	16 50 48.88	−41 45 18.7
B 1871 A	17 50 34.637	−34 44 35.62
B 2179 A	08 25 19.808	−20 40 40.27
Barnard A	05 12 59.466	+45 56 58.04
BD +7°3368 A	17 23 54.053	+07 38 17.03
BD +46°2004 B	14 54 43.31	+46 33 46.6
BDS 263 A	00 34 12.186	+33 26 39.75
BDS 1870 A	03 44 41.964	+33 26 48.35
BDS 7220 A	15 25 26.995	−09 10 13.82
BDS 12349 A	23 27 42.766	+58 16 23.18
β A	05 12 59.466	+45 56 58.04
β A	17 38 03.064	+46 01 55.28
β pm A	00 10 39.447	+14 54 20.57
β pm A	00 20 18.035	−12 29 14.89
β pm A	00 44 40.968	+23 59 43.95
β pm A	00 46 20.792	+16 40 15.74
β pm A	01 50 13.440	+29 20 10.14
β pm C	02 19 46.515	+41 15 10.44
β pm A	02 47 59.551	+58 06 32.59
β pm A	04 19 14.250	+13 57 38.10
β pm A	05 06 34.444	+09 46 01.19
β pm A	05 33 40.476	−01 13 56.30

* Published orbit

Visual Binary

Binary	α_{1950}	δ_{1950}
β pm A	06 34 49.396	+16 26 37.40
β pm A	07 24 26.357	+08 23 29.89
β pm A	07 40 11.374	+29 00 22.23
β pm A	09 05 51.076	+26 50 13.96
β pm A	13 22 33.301	−10 54 03.36
β pm A	16 28 04.105	+21 35 50.16
β pm A	16 33 43.677	−02 13 10.02
β pm A	17 36 56.075	+68 24 36.07
β pm A	19 16 37.017	+19 31 04.26
β pm A	19 17 52.724	−05 30 38.73
β pm A	20 12 39.405	+36 30 28.15
β pm B	20 19 38.906	+36 45 36.52
β pm A	22 04 40.836	+25 06 00.71
β pm A	23 35 06.520	+46 11 13.83
β 120 A	16 09 05.107	−19 19 56.51
β 163 *	21 16 09.806	+11 21 30.02
β 231 A	00 41 55.654	+48 00 40.00
β 292 A	18 10 46.324	−21 04 25.46
β 293 A	18 48 13.936	+33 18 12.51
β 328 A	07 04 19.804	−11 12 55.96
β 429 A	20 04 04.633	+35 38 38.28
β 440 A	20 04 04.633	+35 38 38.28
β 447 A	21 21 53.419	+25 05 48.62
β 490 Aa	00 32 40.390	−03 52 04.29
β 526 A*	03 04 54.356	+40 45 52.46
β 535 A	03 41 10.603	+32 07 53.49
β 558 Aa	05 29 27.017	−00 20 04.41
β 587 A	08 49 06.951	−06 59 19.68
β 600 A	11 14 26.026	−06 51 41.86
β 622 A	15 55 49.301	−25 58 18.14
β 818 A	16 31 32.105	+30 36 09.91
β 947 A	16 02 31.507	−19 40 12.45
β 968 A	18 43 02.931	+37 33 06.40
β 971 A	18 46 12.064	+49 22 32.22
β 989 B*	21 42 22.714	+25 24 51.41
β 996 A	23 49 57.039	+75 15 57.16
β 1029 A	01 11 08.335	+07 18 52.03
β 1054 A	05 50 10.984	+27 36 08.48
β 1056 Aa	05 59 37.854	+09 38 56.35
β 1056 Ab	05 59 37.852	+09 38 56.27
β 1099 A*	00 53 45.153	+60 05 33.50
β 1100 A*	01 11 34.092	+60 40 30.80
β 1140 A	21 15 56.356	+58 24 03.42
β 1143 A	21 37 24.390	+57 15 44.56
β 1186 A	04 24 42.955	+11 06 05.36
β 1191 A	06 23 14.318	+18 47 20.98
β 1207 A	20 18 46.706	+43 41 42.90
β 1266 A*	23 27 57.591	+30 33 22.27
β 1274 A	18 13 48.337	+56 34 13.96
β 1324 A	12 27 00.892	+29 47 20.00
BrsO A	08 40 59.363	−52 56 01.48
BrsO 4 A	10 42 37.396	−59 28 28.04
CapO A	08 50 48.01	−49 02 42.8
CapO 55 A	12 00 27.869	−63 02 04.11
CHARA 9	03 23 33.019	+28 32 32.53
CHARA 14	04 08 55.99	+23 30 32.8
CHARA 19	04 46 04.700	+32 30 08.81
CHARA 44	15 14 03.148	−12 51 21.50
CHARA 57	16 39 34.863	+27 00 42.82
CHARA 64	17 45 47.382	+47 37 42.95
CHARA 71	18 25 32.158	+06 09 43.34
CHARA 79	18 47 11.007	+24 59 18.60
CHARA 80	18 49 44.326	+13 54 15.54
CHARA 89	19 47 51.889	+07 46 29.79
CHARA 90	19 50 17.153	−14 43 57.84
CHARA 103	21 33 05.963	+27 58 27.11
CHARA 105	21 37 34.126	+08 57 26.46
CHARA 115	22 48 06.137	+41 41 17.91
CHARA 133	11 16 24.722	+38 27 36.38

* Published orbit

Visual Binary

Binary	α_{1950}	δ_{1950}
CHARA 145 A	09 57 13.305	+24 47 36.13
CHARA 146 Aa	16 09 05.107	−19 19 56.51
CorO 112 A	10 42 00.906	−59 17 05.00
CorO 152 A	13 09 47.153	−59 33 00.38
CorO 269 A	11 25 46.872	−61 08 08.32
Cou 2084 A	09 32 15.317	+40 11 12.01
Dawes 4 A	05 32 55.034	−04 52 10.86
Dawes 5 A*	05 21 57.674	−02 26 29.65
Δ 65 A	08 07 59.465	−47 11 18.31
Δ 65 B	08 07 56.860	−47 11 49.46
Δ 128 A	13 03 58.753	−49 38 19.89
Δ 131 A	13 11 49.986	−67 37 48.79
Δ 133 C	13 19 20.755	−60 42 38.14
Δ 182 A	15 19 16.541	−44 30 40.82
Δ 206 A	16 37 35.138	−48 40 01.19
Δ 218 A	17 30 12.626	−37 04 09.63
δ A	05 39 03.476	−69 07 35.21
δ 8 Aa	10 42 27.048	−59 43 49.19
δ 8 Ab	10 42 27.048	−59 43 49.19
Dem 5 A*	04 53 16.202	+53 40 27.79
Dem 20 A	19 28 39.676	−02 12 59.60

Binary	α_{1950}	δ_{1950}
Dorpat 66 A	02 13 59.587	+33 59 47.81
Es 144 A	21 52 21.867	+62 22 39.81
Es 483 A	19 19 35.300	+25 28 44.08
Es 521	21 42 05.932	+28 33 07.71
Es 818 A	21 05 58.573	+48 39 11.34
Es 1651 A	18 14 14.17	+41 05 35.2
Es 1825 A	09 40 15.413	+56 10 56.29
Es 1861 A	23 00 04.241	+62 14 34.90
Fox A	17 37 14.348	+68 46 52.48
Frh A	05 12 59.466	+45 56 58.04
Frk A	22 28 02.776	+49 06 00.43
GLS A	21 28 01.326	+70 20 27.85
h 70 C	13 28 24.772	+24 29 25.23
h 697 A	05 18 58.611	−00 27 52.47
h 838 A	10 47 47.457	−08 37 56.58
h 854 A	17 13 59.357	+01 15 53.07
h 1030 A	00 34 12.186	+33 26 39.75

* Published orbit

Visual Binary

Binary	α_{1950}	δ_{1950}
h 1303 A	17 42 00.614	+14 25 48.97
h 1755 A	22 18 57.330	+46 17 03.55
h 1810 A	22 44 54.272	+57 49 13.60
h 1888 A	23 27 42.766	+58 16 23.18
h 2117 A	02 09 04.989	+44 25 32.18
h 2204 A	03 43 00.821	+05 53 41.52
h 2228 A	04 27 40.895	+72 25 26.83
h 2256 A	05 12 59.466	+45 56 58.04
h 2822 A	18 10 46.324	−21 04 25.46
h 2862 A	19 14 03.958	+21 18 03.00
h 2886 A	19 36 43.539	+05 16 56.69
h 2904 A	19 51 18.212	−24 04 00.88
h 3056 A	21 44 16.993	−16 21 18.42
h 3126 A	22 36 01.287	−20 52 49.35
h 3636 A	04 16 00.050	−33 55 09.54
h 3652 A	04 27 31.924	−33 41 04.34
h 3796 A	05 39 03.476	−69 07 35.21
h 3948 A	07 16 38.031	−24 51 42.75
h 4025 A	07 56 48.169	−49 06 30.34
h 4093 A	08 24 28.064	−38 53 43.30
h 4104 A	08 27 29.901	−47 45 40.37
h 4126 A	08 38 32.028	−52 52 36.32
h 4357 A	10 42 04.458	−59 36 41.58
h 4360 A	10 42 12.426	−59 18 48.37
h 4366 G	10 43 11.67	−59 25 01.6
h 4745 A	15 08 17.021	−36 03 38.08
h 4786 A*	15 31 47.980	−41 00 00.69
h 4853 A	16 23 30.524	−47 26 33.93
h 4866 A	16 35 34.799	−56 53 45.99
h 4876 A	16 37 35.138	−48 40 01.19
h 4920 A	17 08 38.891	−58 32 11.20
h 4962 A	17 31 26.314	−32 32 56.46
h 4978 A	17 46 24.124	−53 35 53.52
h 5000 A	17 55 49.486	−36 56 08.06
h 5036 A	18 14 17.236	−34 07 35.38
h 5193 A	20 21 42.289	−56 53 50.02
h 5231 A	20 53 50.503	−70 36 57.94
h 5457 A	03 44 41.964	+33 26 48.35

Binary	α_{1950}	δ_{1950}
H II 58 A	01 56 40.618	−23 09 44.85
H III 5 Ba	02 00 49.974	+42 05 31.16
H III 7 Aa	16 02 31.507	−19 40 12.45
H III 80 A	02 23 37.678	−15 33 54.52
H IV 121 A	16 18 08.667	−25 28 28.14
H IV 122 A	00 42 18.429	+74 42 54.68
H V 6 A	16 09 05.107	−19 19 56.51
H V 7 A	18 10 46.324	−21 04 25.46
H V 15 A	09 10 24.611	+61 37 51.35
H V 17 A	00 34 12.186	+33 26 39.75
H V 20 A	08 49 06.951	−06 59 19.68
H V 27 A	15 25 26.995	−09 10 13.82
H V 32 A	00 05 47.841	+28 48 52.12
H V 71 A	06 34 49.396	+16 26 37.40
H V 100 A	05 55 48.526	+01 50 01.00
H V 114 A	05 05 03.646	+24 12 02.80
H V 118 A	05 31 31.369	−01 04 07.23
H VI 3 A	18 51 58.664	+36 54 29.44
H VI 13 A	11 53 06.284	+15 55 30.08
H VI 25 A	23 27 42.766	+58 16 23.18
H VI 27 A	20 08 43.494	−00 58 16.06
H VI 30 A	05 12 59.466	+45 56 58.04
H VI 37 A	18 41 39.774	+55 29 17.40
H VI 67 Aa	05 21 57.674	−02 26 29.65
H VI 76 A	09 38 29.008	+10 07 14.64
H VI 88 A	05 55 51.579	+44 56 40.69
H VI 98 B	04 12 45.952	+06 04 37.48

* Published orbit

Visual Binary

Binary	α_{1950}	δ_{1950}
H N 51 A	13 50 19.415	−31 40 53.33
H N 73 A	20 39 43.539	+45 06 03.12
HdO 143 A	16 51 00.905	+82 07 21.54
HdO 205 A	08 48 51.625	−46 20 29.20
HdO 223 Aa	13 09 09.247	−59 39 17.43
HdO 232 A	14 27 00.328	−49 17 47.29
HdO 245 A	15 12 53.078	−60 46 24.48
HdO 248 A	15 24 05.522	−36 35 36.61
Ho 212 A*	00 32 40.390	−03 52 04.29
Ho 503 A	03 12 53.372	+34 30 18.42
Ho 557 A	17 11 43.180	+16 24 27.89
Ho 642 A	04 39 14.403	+22 51 46.00
Ho 646 A	17 26 47.627	−33 40 41.68
Ho 647 A	17 31 26.314	−32 32 56.46
Howe 39 A	17 26 47.627	−33 40 41.68
Hu 217 A	05 26 21.969	+35 20 10.96
Hu 506 A*	00 21 33.308	+51 44 34.74
Hu 1128 A	09 32 39.994	+36 02 14.94
Hu 1137 A	12 11 47.877	+12 05 54.90
Hu 1456 A	09 10 58.303	−43 16 52.18
Hynek 94 A	20 31 57.382	+35 04 43.09
Hynek 107 B	22 59 36.882	+42 03 25.50

Binary	α_{1950}	δ_{1950}
hz 7 A*	20 38 02.972	+75 24 57.96
hz 42 A	05 29 27.017	−00 20 04.41
hz 568 A	19 04 37.292	+10 59 34.00
Hzg B	04 03 23.893	+62 11 59.14
I 96 A	16 37 35.138	−48 40 01.19
I 270	04 16 00.050	−33 55 09.54
I 424 Aa	13 09 09.247	−59 39 17.43
I 930 A	13 28 31.522	−51 30 52.20
I 1132 A	11 12 57.80	−60 59 16.2
I 1152	05 39 03.476	−69 07 35.21
J 1586 A	14 58 17.808	−08 19 18.19
J 2016 A	06 09 05.753	+14 13 18.68
J 2091 A	13 27 14.065	+01 21 16.65
J 3257 A	01 57 42.427	+27 38 50.46
Jc 10 B	07 16 51.450	−36 39 00.62
Jef	20 05 20.57	+17 33 30.0
Jsp 167 A	07 29 53.564	−35 46 49.34
Jsp 295 A	08 39 30.824	−59 34 55.29
Jsp 430 A	10 43 50.01	−59 49 24.3
Jsp 700 A	16 54 28.533	−37 55 12.01
Jsp 748 A	17 52 59.793	−32 28 06.35

* Published orbit

Visual Binary

Binary	α_{1950}	δ_{1950}
Knott 1 A	00 57 44.960	+81 36 24.67
Knott 3 A	05 24 12.930	+03 03 14.26
Ku 39 A*	11 34 42.34	+47 44 23.8
Kui 23 B*	06 01 04.774	+23 16 04.51
Kui 24	06 11 33.303	+17 55 20.05
Kui 44 A	09 47 02.359	+21 24 48.04
Kui 85	18 06 05.38	+45 51 02.4
Kui 93 A	19 38 46.581	+13 41 53.48
Kui 103 A*	20 58 07.512	+39 52 46.10
Kui 108 A*	21 40 22.030	+40 50 52.85
Kui 117 A	23 35 25.105	+18 07 24.38
λ 76 A	07 18 53.056	−26 52 08.01
λ 119 A*	10 35 11.747	−47 57 55.48
λ 170 A*	13 09 09.247	−59 39 17.43
λ 251 A	15 53 47.482	−29 04 10.92
λ 297 A	16 50 39.035	−41 44 39.16
λ 334 A	17 30 12.626	−37 04 09.63
LDS 21 A	00 34 14.124	−49 24 20.25
LDS 587 A	17 12 18.174	−66 53 40.35
LDS 720 A	20 42 03.756	−31 31 05.29
LPO 26 A	09 58 57.707	−59 23 39.26

Binary	α_{1950}	δ_{1950}
Lv Aa	23 27 57.591	+30 33 22.27
McA 22 A	05 45 05.621	−10 32 58.15
McA 24 A	06 00 29.692	+19 41 35.51
McA 47*	17 20 05.060	+40 01 22.05
McA 73 A	22 50 50.810	−11 52 58.44
McA 77 B	22 59 36.882	+42 03 25.50
MlbO 8 A	16 37 35.138	−48 40 01.19
OΣ 38 A*	02 00 49.974	+42 05 31.16
OΣ 68 A	03 56 06.773	+48 00 36.22
OΣ 71 A	04 03 43.447	+33 18 46.44
OΣ 82 A*	04 19 53.799	+14 56 25.18
OΣ 192 Arej	08 31 02.587	+74 53 49.46
OΣ 222 A	10 35 04.695	+60 23 14.87
OΣ 234 A*	11 28 07.900	+41 33 50.35
OΣ 299 A*	15 33 07.055	+64 04 22.39
OΣ 328 A	17 15 28.612	+33 09 10.07
OΣ 341 A*	18 03 42.272	+21 26 26.17
OΣ 341 AB*	18 03 42.272	+21 26 26.17
OΣ 353 A*	18 21 28.502	+71 18 42.09
OΣ 371 B	19 13 55.995	+27 21 59.40
OΣ 398 A	20 05 30.742	+35 34 20.72
OΣ 426 A	20 59 26.089	+45 57 31.22
OΣ 475 A	22 36 48.620	+37 06 53.25
OΣ 496 A	23 27 42.766	+58 16 23.18
OΣ 529 A	22 43 20.184	+67 51 55.48
OΣ 531 A*	04 04 13.992	+37 56 41.15
OΣΣ 111 A	11 27 25.619	+30 14 35.79

* Published orbit

Visual Binary

Binary	α_{1950}	δ_{1950}
EF Peg B	21 12 40.	+13 51 36.
ϕ 162 A	10 17 46.531	−57 09 12.71
ϕ 313 A	07 16 38.031	−24 51 42.75
ϕ 315	08 27 29.901	−47 45 40.37
ϕ 364 A	10 44 39.915	−63 59 58.06
R 87 A	08 54 48.708	−52 31 50.25
Rmk 2 Aa	01 06 17.251	−55 30 45.72
Rmk 7 A	08 07 46.613	−68 28 12.53
Rmk 16 A	13 04 52.075	−65 02 21.47
Rst 1205 A	01 06 17.251	−55 30 45.72
Rst 1393 A	08 22 40.37	−28 39 56.0
Rst 1903 A	16 48 46.79	−40 42 49.7
Rst 1964 A	17 27 58.98	−31 20 30.8
Rst 3170 A	18 14 32.490	−18 28 58.27
Rst 3371 A	02 44 34.929	−13 33 00.24
Rst 3558a A*	11 42 11.027	−49 08 21.42
Rst 3949 A	16 25 05.689	−08 15 41.15
Rst 4281 A	05 33 05.918	−03 17 02.12
Rst 5090 A	17 34 43.274	−15 22 07.81
Rst 5304 A	08 40 39.102	−47 55 07.79
S 405 B	02 06 41.399	+79 27 28.93
S 440 A	03 52 52.755	+50 33 09.32
S 455 A	04 39 14.403	+22 51 46.00
S 647 A	13 05 55.345	−02 24 46.32
S 800 A	21 52 21.867	+62 22 39.81
S 802 A	21 59 42.543	−17 12 21.87
S,h 26 Ba	02 00 49.974	+42 05 31.16
S,h 45 A	04 32 54.244	+10 03 35.07
S,h 51 A	05 12 59.466	+45 56 58.04
S,h 202 A	15 25 26.995	−09 10 13.82
S,h 227 A	16 19 42.738	+19 16 09.32
S,h 243 C	17 13 08.682	−26 28 33.11
S,h 314 A	20 04 04.633	+35 38 38.28
S,h 355 A	23 27 42.766	+58 16 23.18
S,h 368 A	07 24 46.351	+21 32 56.88
Sei 923 A	20 07 20.809	+35 20 10.51
Sei 1077 A	20 16 53.877	+36 10 59.54
Σ 12 A	00 12 24.138	+08 32 35.70
Σ 39 A	18 48 13.936	+33 18 12.51
Σ 39 B	18 48 15.823	+33 17 33.39
Σ 60 A*	00 46 03.907	+57 33 02.76
Σ 98 A	01 10 06.406	+31 48 38.37
Σ 99 B	01 11 01.311	+24 19 04.65
Σ 100 B	01 11 08.335	+07 18 52.03
Σ 145 A	01 38 30.650	+25 29 38.52
Σ 205 Ba	02 00 49.974	+42 05 31.16
Σ 215 A	02 05 59.297	+40 33 28.73
Σ 227 A	02 09 27.778	+30 04 10.44
Σ 227 B	02 09 27.868	+30 04 14.14
Σ 257 A*	02 21 54.217	+61 19 28.35
Σ 311 A	02 46 29.840	+17 15 27.29
Σ 327 A rej	03 03 48.046	+81 16 50.48
Σ 410 A	03 31 53.836	+31 51 04.16
Σ 422 A*	03 34 13.130	+00 25 32.96
Σ 444 A	03 42 51.373	+22 59 32.97
Σ 448 A	03 44 41.964	+33 26 48.35
Σ 464 A	03 50 58.959	+31 44 12.55

* Published orbit

Visual Binary

Binary	α_{1950}	δ_{1950}
Σ 471 A	03 54 29.432	+39 52 02.54
Σ 481 D	04 00 49.539	+27 59 22.76
Σ 485 B	04 03 23.893	+62 11 59.14
Σ 610 Aa	04 53 16.202	+53 40 27.79
Σ 642 A rej	05 04 17.196	−04 43 14.92
Σ 653 A	05 12 08.799	+32 37 54.05
Σ 674 A	05 14 33.482	+20 04 48.20
Σ 728 A*	05 28 06.416	+05 54 41.79
Σ 734 A	05 30 35.612	−01 45 05.11
Σ 748 A	05 32 48.356	−05 25 07.95
Σ 748 B	05 32 48.669	−05 25 00.57
Σ 752 A	05 32 59.126	−05 56 28.26
Σ 762 E	05 36 16.398	−02 37 17.58
Σ 774 A*	05 38 14.044	−01 58 03.05
Σ 900 A	06 21 07.050	+04 37 11.68
Σ 921 A	06 28 22.604	+11 17 15.24
Σ 951 A	06 37 43.434	+09 51 54.72
Σ 1010 A	06 58 56.773	−03 02 43.49
Σ 1026 Aa rej	07 04 19.804	−11 12 55.96
Σ 1062 A	07 18 47.691	+55 22 40.73
Σ 1110 A*	07 31 24.673	+32 00 00.53
Σ 1110 B*	07 31 24.635	+31 59 57.61
Σ 1110 C	07 31 26.235	+31 58 50.36
Σ 1138 B	07 43 10.625	−14 33 48.31
Σ 1233 Aa	08 25 57.681	−02 21 00.72
Σ 1233 Ab	08 25 57.689	−02 21 00.60
Σ 1245 A	08 33 11.523	+06 47 45.07
Σ 1273 B*	08 44 07.508	+06 36 11.91
Σ 1369 A	09 32 15.317	+40 11 12.01
Σ 1377 A	09 40 51.573	+02 51 25.03
Σ 1450 A	10 32 24.801	+08 54 33.57
Σ 1503 A	10 59 34.162	+10 09 53.23
Σ 1523 B*	11 15 31.120	+31 48 37.87
Σ 1552 A	11 32 06.389	+17 04 23.44
Σ 1579 Aa	11 52 29.996	+46 45 18.12
Σ 1602 A	12 04 38.357	+69 21 14.88
Σ 1657 B	12 32 35.859	+18 39 07.47
Σ 1669 B	12 38 40.251	−12 44 26.80
Σ 1694 B	12 48 38.683	+83 41 22.40
Σ 1695 A	12 54 06.309	+54 22 10.96
Σ 1744 A*	13 21 54.916	+55 11 09.46
Σ 1781 B*	13 43 36.039	+05 21 56.68
Σ 1888 A*	14 49 04.800	+19 18 24.60
Σ 1890 B	14 47 59.571	+48 55 35.48
Σ 1909 B*	15 02 08.190	+47 50 53.10
Σ 1918 A	15 06 52.873	+63 18 26.92
Σ 1927 A	15 10 50.660	+62 02 32.88
Σ 1927 B	15 10 50.422	+62 02 48.65
Σ 1965 A	15 37 29.590	+36 47 49.58
Σ 2032 A*	16 12 48.252	+33 59 02.62
Σ 2216 A rej	17 44 35.061	+05 42 33.23
Σ 2308 B	18 03 47.520	+79 59 48.27
Σ 2316 Ab	18 24 38.902	+00 09 53.73
Σ 2379 A	18 43 53.644	−01 00 56.62
Σ 2461 A	19 05 31.990	+32 25 18.48
Σ 2469 A	19 06 05.367	+38 50 52.85
Σ 2487 A	19 12 03.285	+39 03 32.22
Σ 2535 A	19 28 39.676	−02 12 59.60
Σ 2613 A*	19 59 03.538	+10 36 33.14
Σ 2639 A	20 07 20.809	+35 20 10.51
Σ 2700 A	20 31 58.405	+45 00 11.99
Σ 2737 A*	20 56 34.570	+04 06 02.09
Σ 2743 A	20 58 07.395	+47 19 30.08
Σ 2758 A*	21 04 39.935	+38 29 59.10
Σ 2762 A	21 06 31.463	+30 00 09.40
Σ 2790 A	21 17 52.610	+58 24 41.39
Σ 2797	21 24 17.421	+13 28 14.79
Σ 2806 A	21 28 01.326	+70 20 27.85
Σ 2816 A	21 37 24.390	+57 15 44.56
Σ 2824 Ab	21 42 22.714	+25 24 51.41
Σ 2836 A	21 47 58.623	+66 33 33.04
Σ 2840 A	21 50 19.323	+55 33 40.38
Σ 2873 B	22 00 13.572	+82 37 51.47
Σ 2960 A	22 54 06.327	+41 20 11.95
Σ 2985 B	23 07 39.187	+47 41 13.25
Σ 3018 Aa	23 27 57.591	+30 33 22.27
Σ 3062 A*	00 03 37.946	+58 09 29.61
Σ 3129 A	17 59 41.017	+45 21 00.49

* Published orbit

Visual Binary

Binary	α_{1950}	δ_{1950}	Binary	α_{1950}	δ_{1950}
Σ I 5 A	02 34 07.128	+24 25 50.90	Webb A	16 33 11.685	+17 09 32.66
Σ I 8 A	03 44 30.424	+23 57 07.57			
Σ I 10 A	04 25 48.214	+15 45 41.88			
Σ I 14 Aa	05 29 27.017	−00 20 04.41			
Σ I 14 B	05 29 26.996	−00 19 11.93			
Σ I 16 A	05 32 55.469	−05 26 50.89	WNO A	18 05 48.436	−25 28 55.10
Σ I 16 B	05 32 58.911	−05 26 52.21			
Σ I 17 Aa	05 32 55.469	−05 26 50.89			
Σ I 17 Ab	05 32 58.911	−05 26 52.21			
Σ I 38 A	18 43 02.931	+37 33 06.40			
Σ I 41 A	19 22 07.267	+16 50 20.28	β Ari AB*	01 51 52.340	+20 33 52.09
Σ I 52 B*	20 18 12.200	−14 56 26.57	κ Cnc A	09 05 02.414	+10 52 14.13
Σ I 58 B	22 27 17.496	+58 08 51.88	α Cru A*	12 23 48.064	−62 49 19.43
			α Cru B*	12 23 48.870	−62 49 21.48
			α Cru C	12 23 43.075	−62 50 42.31
Smyth A	06 18 23.546	−30 02 23.86	ε Eri A	03 30 34.355	−09 37 34.76
			ε Lib AB*	15 21 29.019	−10 08 37.91
			α Oph B*	17 32 36.697	+12 35 41.94
			δ Sco A	15 57 22.318	−22 28 51.37
Stein 368 A	02 28 54.018	+61 14 08.89			
Stone 22 A	11 18 56.573	−20 10 41.13			
DV UMa A	09 43 26.0	+45 00 38.			
QQ Vul A	20 03 30.7	+22 31 28.			

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IC 4665 Kopff, E. 1947, *Astr. Nachr.*, 274, 69
INCA Walter, H.G., Hering, R., and de Vegt, Ch. 1990, *Astr. Ap. Suppl.*, 86, 357
IRC Neugebauer, G., and Leighton, R.B. 1969, *Two-Micron Infrared Sky SurveyA Preliminary Catalog* (Washington: NASA SP-3047)
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Kr30 Krumpholz, H. 1931, *Astr. Nachr.*, 243, 351
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Libra DN Debehogne, H. 1990, *I.A.U. Circ.*, No. 5131
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[Fields 268, 370, 423-424, 426-432, 434, 437, 441-442, 465, 467-468, 472-473, 484-486, 489-490, 493-494, 496, 500-504, 520-523, 525-531, 535-537, 544, 546-547, 549, 551-556, 559, 565-566, 575-576, 578-579, 581, 583, 595-597, 607, 609, 611-612, 614, 618, 623-625, 635, 654, 713-716, 756, 759, 774-775, 797, 804, 816, 832, 850-852, 856, 858, 860, 871, 875]

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[R And; R-T Aqr; R-T,η Aql; η Argus; R-S Ari; R,ϵ Aur; R-T Boo; R Cas; R-U Cnc; R-T CMi; R,T-U Cep; R-S,α,β Cas; R-S,δ,μ Cep; R,ρ Cet; R Com; R-T CrB; R Crv; R Crt; R-T,χ,P Cyg; R-T Del; R-U,ζ Gem; R-U,α,g Her; R-T Hya; R-T Leo; R LMi; R Lep; R,δ Lib; R,β Lyr; R-S Mon; R-T,*Nova [1848]* Oph; R,α,δ Ori; R,T,β Peg; R,β,ρ Per; R-T Psc; R Sge; R-X Sgr; R-U Sco; R Sct; R-T Ser; *Nova [1604]* Serpentarii; R-U,λ Tau; R-T UMa; R-W Vir; R-S,11 Vul]

Schönfeld, E. 1875, *Zweiter Catalog von Veränderlichen Sternen* (Mannheim: J. Schneider) = *Verein für Naturkunde, Mannheim. Jahresbericht*, 40 [Second Catalogue]
[T Ari; V Cas; T Cas; S Cet; R-S CrA; U CrB; U Cyg; η Gem; S Lib; R Lyn; T Mon; α Oph; S Ori; S Peg; S Per; V Tau; X Vir]

Chandler, S.C. 1888, *A.J.*, 8, 81 [First Catalogue]
[*Nova [1885]* And; R Ant; U Aqr; U Aql; S Aur; U-X Boo; R CVn; R CMa; U CMi; V-X Cap; R-S,ζ Car; U Cas; R Cen; T-U Cep; T-V Cet; T CrA; V CrB; V-RR,*Nova [1876]* Cyg; R Dor; R Dra; V Gem; V-W Her; U-V Hya; R Ind; R Lac; U-W Leo; T-Y Lib; R Lup; U-V Mon; R Mus; U-X Oph; T-U Ori; α Pav; T Per; R Phe; U Psc; R PsA; S,U,L, Pup; S Sgc; Y Sgr; W-X Sco; R Sct; W Tau; R TrA; R UMi; Y-RR Vir; T Vul; *Variability not confirmed, but Gould's nomenclature adopted:* T Car; R-S Eri; R,T Pup; T TrA; R Vel]

_____. 1890, *A.J.*, 9, 185 [Suppl. to First Catalogue]
[S Ant; Y Cap; RS Cyg; U Del; W Hya; Z-RR Lib; Y Oph; R Ret; Z Sgr; Y-Z Sco; *N* Vel

_____. 1893, *A.J.*, 13, 12 [New Variables]
[V Aql; T-U Aur; S-T Cam; V Cep; RT-RV Cyg; S Dra; X Her; U-V Per; R PsA; R Pyx; R Tri]

_____. 1893, *A.J.*, 13, 89 [Second Catalogue]
[S Ant; R Aps; U Ari; V Aur; S CVn; T,η Car; Q Cyg; Y Her; W Hya; S Lac; S PsA; V Pup; X Tau; S-T TrA]

_____. 1894, *A.J.*, 14, 51 [Suppl. to Second Catalogue]
[T And; V-W Aqr; W Aql; V Cas; W Cep; RW-RX Cyg; V Del; S Lep; RS Lib; R Nor; Z Oph; V Ori; V Per; T Sge; RR Sgr; RR Sco; RR Vir]

_____. 1895, *A.J.*, 15, 81 [Revised Suppl. to Second Catalogue]
[- Aps; X Aqr; X-Z Aql; R Ara; Y Boo; R Cae; U Cam; U-RR Car; W Cas; S-U Cen; W Cet; R Col; R-S Cru; RY-RZ Cyg; T Dra; R Gru; Z-RR Her; R Hor; X Hya; S Ind; T Lep; S Lup; S-U Lyr; R Mic; S Mus; S Nor; R-T Oct; R-S Pav; W Per; S Phe; R-S Pic; RS-RU Sgr; RS-RU Sco; S Scl; *d* Ser; R Tel; U TrA; R-S Tuc; S-T Vel]

_____. 1895, *A.J.*, 15, 184 [New Variables]
[W Cae; Z Cap; T Cru; T Eri; RT-RU Lib; V Lyr; U Peg; W Pup; S UMi; U Vel]

_____. 1896, *A.J.*, 16, 71 [New Variables]
[U And; Y Aqr; RR-RS Aql; RS Car; X Cas; V-Z Cen; X Cet; W Del; RS Her; T Lup; W Mon; W Ori; V-W Peg; X Pup; RV-RW Sco; T Sct; R Sex]

_____. 1896, *A.J.*, 16, 145 [Third Catalogue]
[S Aps; V CMi; S-T Col; X Del; U Eri; R For; S-T Gru; T-U Pav; RV-RX Sgr; U-V Scl; RS Vir]

_____. 1897, *A.J.*, 17, 64 [New Variables]
[Z Aqr; RR Cap; RR-RS Cen; U-V CrA; U Cru; SS Cyg; W Gem; RT-RU Her; S Hor; Y Hya; W Lyr; Y Pup; S Pyx; RY Sgr; RX-RY Sco; W Sct; RT Vir – *all repeated in 1st Name-List*]

Dunér, N.C., Hartwig, E., Müller, G., and Oudemans, J.A.C. 1901, *Astr. Nachr.*, 157, 133 [1st Name-List]
[V-RR And; T-U Aur; θ Aps; Z-RU Aqr; RT-RW,*Nova [1899]* Aql; S-W Ara; W-Y Aur; Z Boo; X Cae; T CVn; S CMa; RR-RT Cap; RT-RX Car; Y-RR Cas; RR-RV Cen; X-Y Cep; R Cha; R Cir; U-Y CrA; U Cru; SS-UV Cyg; S Dor; U-V Dra; R Equ; V-W Eri; S For; W-X Gem; RT-RZ Her; S-T Hor; Y-RV Hya; T Ind; T Lac; U Lep; RV Lib; U-W Lup; S Lyn; W-RS Lyr; S-U Mic; X-Z Mon; R,T-X Nor; U Oct; RR-RS Oph; V-X Pav; X-Z Peg; X-Y,*Nova [1901]* Per; T Phe; T PsA; Y-RU Pup; S Pyx; RY-SU,*Nova [1900]* Sgr; RX-SX Sco; W-RR Scl; S-U Sct; U Ser; Y-RR Tau; S-Y Tel; V TrA; U-V UMa; W-X Vel; RT-RY Vir; R Vol; U Vul]

_____. 1902, *Astr. Nachr.*, 159, 259 [2nd Name-List]
[T Aps; V Cen; RU Cap; RY Car; RX Cen; UW-UZ Cyg; W-X Dra; X Eri; T For; SS Her; U Lac; RT-RU Lyr; RR-RS Peg; U Sge; Y-RR Vel; S Vol]

Müller, G. 1902, *A.J.*, 22, 189 [RV Lyr]

Dunér, N.C., Hartwig, E., Müller, G., and Oudemans, J.A.C. 1903, *Astr. Nachr.*, 164, 31 [3rd Name-List]
[RS,RU And; Z Aur; W-Y Cam; Z-RR Cep; W CrB; VV-VX Cyg; Y-Z Del; Y-Z Dra; Y-RS,*Nova [1903]* Gem; ST-SU Her; RW-RZ Lyr; RR Mon; RT Oph; RT Peg; Z Per; V Sge; RS Tau; W UMa; T UMi]

Dunér, N.C., Hartwig, E., and Müller, G. 1904, *Astr. Nachr.*, 166, 369 [4th Name-List]
[RV And; RX-RZ Aql; RR-RS Aur; Z Cam; T CMa; RZ Car; RS-RT Cas; RY Cen; Y-Z Cet; VY-WY Cyg; RT-RV Gem; SV Her; V-W Lac; SS-ST Lyr; V Mic; Y Nor; RU-RW Oph; X Ori; RU-RW Peg; RR-RT Per; V Psc; SV-SW Sgr; RS Sct; V Sct; V Ser; RT-RU Tau; T Tuc; X-Z UMa; U UMi; V-X Vul]

Var

Dunér, N.C., Hartwig, E., and Müller, G. 1905, *Astr. Nachr.*, 170, 69 [5th Name-List]
[RW-RY And; SS-SU Aql; RT-RU Aur; RR-RS Cam; RU-RW Cas; RS-RT Cep; WZ Cyg; RR-RU Dra; SU-SX Lyr; RT-RU Mon; T Mus; RX-RZ Oph; Y Ori; RU-RV Per; RV-RW Tau; RR-RS UMa; RZ-SS Vir]

_____. 1906, *Astr. Nachr.*, 172, 361 [Erratum: 1906, *Astr. Nachr.*, 173, 127] [6th Name-List]
[RZ-SS And; SV-SY Aql; RV-RX Aur; RT Cam; RV Cap; SS Car; RX-RZ Cas; RU-RV Cep; X CrB; V Cru; XX-YY Cyg; RR Del; RW Gem; T Lyn; RW-RX Per; W Sge; SX Sgr; RX Tau; RS Vel]

_____. 1907, *Astr. Nachr.*, 176, 181 [Erratum: 1909, *Astr. Nachr.*, 181, 40] [7th Name-List]
[ST-SX And; RV Aqr; SZ-TT Aql; RY Aur; RR-RT Boo; RU-RV Cam; ST Car; SS-SW Cas; RZ-TU Cen; Y-Z CrB; W-X Cru; YZ-AA Cyg; RS Del; RV-RZ Dra; SW Her; X-Y Lac; X Leo; X-Y Lup; SY Lyr; RV-RW Mon; U Mus; SS-SV Oph; RX-RZ Peg; RY-SS Per; T Pic; W-Z Sct; W Ser; S Sex; U Tuc; *Nova [1905]* Vel; ST Vir; Y Vul]

_____. 1908, *Astr. Nachr.*, 179, 85 [8th Name-List]
[SY-TT And; RZ-SY Aur; S Cae; RW-RX Cam; U-V CMa; SX-SY Cas; RW Cep; *Nova [1906]* Cir; U-W Col; RR CrB; SS-SV Dra; RX-RY Gem; Z-RR Lac; Y-Z Leo; U Lyn; RX Mon; ST-SW Per; U-V Phe; RV Pup; T Sex; RY-SS Tau; V Tuc; RT-RW UMa; SU Vir]

_____. 1909, *Astr. Nachr.*, 182, 321 [Erratum: 1910, *Astr. Nachr.*, 183, 337] [9th Name-List]
[TU-TV And; RW Aqr; SZ-TU Aur; RU Boo; Z Cnc; SZ-TT Cas; RX-RZ Cep; RR Cet; AB-AC Cyg; SW-SY Dra; SS-SU Gem; SX-SZ Her; U Hor; RS-RU Lac; RR Leo; V Lyn; SW-SX Oph; Z-RS Ori; SS-SU Peg; SX-SZ Per; SY-TT Sgr; SY,*Nova 2 [1906]* Sco; RT Scl; X Ser; ST-SW Tau; S Tri; RX-ST UMa; Z-RR Vul]

_____. 1910, *Astr. Nachr.*, 186, 273 [Erratum: 1910, *Astr. Nachr.*, 186, 372] [10th Name-List]
[TW-UV And; U Aps; TU-TZ Aql; X-RR Ara; V Ari; TV-TZ Aur; RV-RW Boo; U,60 B. CVn; RW-RX Cap; SU-SZ Car; TV-TX Cen; SS-ST Cep; Z-RS CrA; RS CrB; S Crt; AD-AF Cyg; SZ-TW Dra; SV Gem; TT-TX Her; V Hor; RW Hya; U-Z Ind; RV-RW Lac; RW-RX Lib; Z Lup; W Mic; V Oct; SY-SZ Oph; RT Ori; Y-RR Pav; SV-SZ Peg; TT-TU Per; U PsA; TU-UX Sgr; SZ-TV Sco; RR-RX Set; Z-RU Tel; W TrA; SU-SV UMa; RT-RZ Vel; T Vol; RS Vul]

_____. 1911, *Astr. Nachr.*, 190, 57 [Erratum: 1938, *Astr. Nachr.*, 266, 379] [11th Name-List]
[UW-UX And; RX Aqr; RS-RW Ara; W Ari; RX Boo; RY-SS Cam; RR-RS Cnc; V-W CVn; TT-TX Car; TU Cas; TY-UW Cen; SU-SV Cep; Y-RU Cru; AG-AU Cyg; TX-UU Dra; Y Eri; SW-TT Gem; TY-UW Her; RX Hya; RY-RZ Lac; RY-RZ Lib; W-X Lyn; SZ-TT Lyr; V-Z Mus; TT-TV Oph; RU-RW Ori; TT-TU Peg; TV-TW Per; W-Y Psc; UY-XX Sgr; TW-AG Sco; RY-RZ Sct; Y-Z Ser; SX Tau; T Tri; SW UMa; V UMi; SV Vir; RU Vul]

_____. 1912, *Astr. Nachr.*, 191, 341 [12th Name-List]
[UY-UZ And; SS-SV Aqr; UU-UW Aql; RX-RY,*Nova [1910]* Ara; X-Y,*Nova [1854]* Ari; UU-UX Aur; RY Boo; T Cae; ST Cam; RT Cnc; X CVn; W-X CMa; W CMi; TY-TZ Car; TV-TX Cas; UX-UY Cen; SW Cep; RT-RW CrA; S Crv; AV-AZ Cyg; T-U Dor; UV-UX Dra; Z-RT Eri; U For; TU-TW Gem; U Gru; UY Her; RY-SS Hya; RR Ind; RX Lac; T-U LMi; SS-ST Lib; RR Lup; Y Lyn; X Mic; RY Mon; RR-RS Mus; Z Nor; TW Oph; TV-TZ Peg; TX Per; W Phe; U-W Pic; Z Psc; V PsA; RW Pup; S Ret; X Sge; XY-AN,*Nova 2 [1910]*,*Nova 4 [1901]* Sgr; AH-AK Sco; SS-SX Set; RR Ser; SY-TU Tau; RV-RW Tel; X-RS TrA; SS-SU Vel; SW Vir]

_____. 1913, *Astr. Nachr.*, 195, 241 [Erratum: 1913, *Astr. Nachr.*, 195, 383] [13th Name-List]
[VV-VX And; SX-SY Aqr; UY-VW Aur; RU-RV Cnc; Y-Z CVn; UU-ZZ Cas; TV Cas; UZ-VX Cen; S Cir; S Com; RT-RV CrB; BB Cyg; RT Del; UY-UZ Dra; RU-RX Eri; TX Gem; SS Lac; RS-RT Leo; TU-TW Lyr; TX-TY Oph; RX-UW Ori; RS Pav; UU-UY Peg; TY-UU Per; Y-RT Sge; AP-AR Sgr; AL Sco; TV-TW Tau; U Tri; W Tuc; SV Vel; SX-SY Vir; RV-RX Vul]

_____. 1914, *Astr. Nachr.*, 199, 65 [Erratum: 1925, *Astr. Nachr.*, 224, 146] [14th Name-List]
[RT And; V-Z Aur; V Aps; SZ-TT Aqr; UX-UZ Aql; Z Ari; VX Aur; RR CVn; AA-AE Car; UV Cas; VY-XY Cen; SX-SY Cep; S Cha; T Cir; T Com; T Crt; RV-RZ Cru; BC-BE Cyg; VV Dra; RY Eri; V-W Gru; W-X Hor; ST-SU Hya; RS Ind; ST Lac; SU-SV Lib; RS-RT Lup; TX-TY Lyr; R Mea; Y-Z Mic; RT-RU Mus; RR-RT Nor; TZ-UU Oph; UX-BH Ori; RT Pav; UZ-VV Peg; UV-VW Per; X-Y Pic; W PsA; T Pyx; AS-BI Sgr; AM-BI Sco; SY-TW Set; RS Ser; TX-TZ Tau; RX Tel; V Tri; RT TrA; W UMi; SW-TT Vel; SZ-TV Vir; RY Vul]

Hartwig, E., and Müller, G. 1916, *Astr. Nachr.*, 202, 105 [15th Name-List]
[VY Aur; RZ-SS Boo; SU Cam; RX-RW Cnc; RS-RU CVn; UW-UY Cas; SZ-TW Cep; RW CrB; UZ-VW Her; RU Leo; V-W LMi; TZ Lyr; VW Peg; VX Per; RX Pup; W Tri; SX UMa]

_____. 1919, *Astr. Nachr.*, 208, 57 [Erratum: 1936, *Astr. Nachr.*, 261, 103] [16th Name-List]
[TU-TW Aqr; VV,*Nova 3 [1918]* Aql; VZ-YY Aur; ST-SW Boo; RY-RZ Cnc; RY Cep; UZ-VW Cas; TX,*Nova [1917]* Cep; U-X Com; BP-BH Cyg; TY-UZ Gem; RV-RY Leo; X LMi; SW Lib; UU-UY Lyr; *Nova [1918]* Mon; UV-UW Oph; BI,*Nova [1916]* Ori; VY-WZ Per; RR Pac; BK Sgr; UU-UW Tau; X UMi; TW-TX Vir]

Var

Hartwig, E., and Müller, G. 1921, *Astr. Nachr.*, 212, 353 [17th Name-List]
[VZ-WX And; VW-WZ,*Nova 4 [1919]* Aql; RZ-SX Ara; RR Ari; YZ-AA Aur; SS,*Nova 3 [1920]* Cnc; Y CMa; AP-CI Car; VX-WZ Cas; XZ-AK Cen; TY Cep; RT Cet; T-U Cha; X Col; RX CrA; RX CrB; SS Cru; BI-BQ Cyg; VW Dra; S Equ; RZ Eri; VV-VZ Gem; X Gru; VX-AB Her; Y-RR Hor; SV-SX Hya; RT Ind; SU-SV Lac; RZ-ST Leo; SX-SZ Lib; RU-RV Lup; UZ-VX,*Nova [1919]* Lyr; RZ-SX Mon; RU-RZ Nor; W-RU Oct; UX-WY,*Nova 3 [1917],Nova 4 [1919]* Oph; BK-BN Ori; RU-RY Pav; XX Per; X-Z Phe; Z Pic; RY-SS Pup; U Pyx; RU-RZ,*Nova 2 [1913]* Sge; BL-BM,*Nova 5 [1919]* Sgr; BK-BM Sco; TX Set; RT Ser; UX Tau; RY-SU Tel; RU TrA; SY UMa; TU-VY Vel; TY-UV Vir; RZ-SU Vul]

Hartwig, E. 1922, *Astr. Nachr.*, 215, 185 [Errata: 1933, *Astr. Nachr.*, 248, 199; 1938, *Astr. Nachr.*, 266, 379] [18th Name-List]
[WY And; RR Ant; XX Aql; SY-TT Ara; AB-AD Aur; RV CVn; Z CMa; CK-CL Car; XX Cas; AL-AP Cen; TZ-UY Cep; RY-RZ CrA; RY CrB; BR-CE Cyg; SS Eri; WW-WX Gem; AC-AD Her; SY-SZ Hya; SW-SX Lac; SU-SW Leo; V Lep; TT-TU Lib; RW-RY Lup; Z Lyn; SY-TU Mon; *Nova 2 [1920]* Nor; WZ Oph; BO-BP Ori; RZ Pav; VX-VZ Peg; XY-YY Per; ST-SW Pup; V Pyx; BN-BP,*Nova 6 [1905], Nova 7 [1914]* Sgr; BN Sco; TY Sct; SV-SW Tel; X Tri; RV TrA; VZ-WW Vel; UW-UX Vir; SV Vul]

_____. 1922, *Astr. Nachr.*, 217, 369 [Erratum: 1923, *Astr. Nachr.*, 217, 459] [19th Name-List]
[XY-XZ Aql; TU Ara; CM Car; XY-XZ Cas; AQ Cen; U Cir; Y-RV Com; SS CrA; ST Cru; CP-CQ Cyg; V-RS Dor; VX-VZ Dra; T Equ; WY Gem; AB Her; S Men; XX Oph; BQ Ori; SS-ST Pav; WW-ZZ Peg; YZ-ZZ Per; RR Phe; *Nova [1902]* Pup; BQ Sgr; *Nova 2 [1922]* Sco; RU Scl; SZ UMa; UZ Tau; SX Tel; X-TX Tuc; WX Vel; UY,*Nova? [1919]* Vir; U-V Vul]

Guthnick, P., Prager, R., and Heise, E. 1924, *Astr. Nachr.*, 223, 41 [Errata: 1925, *Astr. Nachr.*, 224, 111; 1927, *Astr. Nachr.*, 231, 159] [20th Name-List]
[WZ-YY And; TY-UV Aqr; YY-AA Aql; TV-UV Ara; RS Ari; AE Aur; SX-TT Boo; RW CVn; CN-DM Car; YY Cas; AR-AU Cen; UZ Cep; Y-Z Cet; RW-RX Com; ST-TY CrA; RZ CrB; CH-CP Cyg; RT-RU Dor; ST Eri; WZ-XY Gem; AH-AM Her; SY-TV Lac; SX Leo; TV Lib; RZ-SV Lup; RR Lyn; VY-WW Lyr; T Men; TV-UW Mon; RV-SX Mus; XY Oph; BR Ori; AA-AF Peg; AA-AC Per; RS-RX Pic; BR-BZ Sgr; BO-BQ Sco; TZ-UX Sct; RU Ser; VV-VY Tau; SY-TY Tel; Y Tri; TY Tuc; WY-XY Vel; UZ-VV Vir; SW-VX Vul]

Guthnick, P., and Prager, R. 1925, *Astr. Nachr.*, 224, 129 [Erratum: 1926, *Astr. Nachr.*, 229, 67] [21st Name-List]
[W Aps; UW-UX Aqr; AB-CH Aql; AF Aur; RX CVn; RZ Cap; DN-EO Car; YZ Cas; AV-AW Cen; VV Cep; RR Col; TZ-UY CrA; CQ-CR Cyg; RV Dor; WW Dra; XZ Gem; AF-AG,AN-AP Her; SW Lup; U-V Men; SY Mus; RV-ST Oct; XZ Oph; BS-CH Ori; SU Pav; AG-AH Peg; AD Per; CC-DS Sgr; BR Sco; UY-BO Set; VZ Tau; Z-RR Tri; XZ-AA Vel; W Vol]

_____. 1926, *Astr. Nachr.*, 227, 161 [22nd Name-List]
[YZ And; UY-WY Aqr; CI-EK Aql; UW Ara; EP-ES Car; CS-CT Cyg; RW Dor; WX Dra; U-V Equ; SU Eri; TW Lib; WX-WZ Lyr; YY-AZ Oph; AI-AL Peg; AE-AF Per; RR Pic; DU-FI Sgr; BS Sco; BP-BR Set; RV-VV Ser; U Sex; WW Tau; VW Vir; VY-VZ Vul]

_____. 1926, *Astr. Nachr.*, 228, 353 [23rd Name-List]
[IU-UU Boo; RY-ST CVn; ET-FR Car; ZZ Cas; AX-BB Cen; CU-CZ Cyg; WY Dra; W Equ; YY-YZ Gem; AQ Her; TT Hya; TW-TX Lac; BB-BC Oph; AM-AR Peg; SS Sge; WX Tau; AB-AC Vel]

_____. 1927, *Astr. Nachr.*, 231, 161 [24th Name-List]
[ZZ-AD And; WZ-XY Aqr; EL-EP Aql; AG Aur; *I* Boo; SS-SY Cap; FS-FW Car; VW-VX Cep; UZ-VX CrA; T Crv; DD-DL Cyg; RX-RY Dor; ZZ Gem; AR-AV Her; TU-TV Hya; TY-VY Lac; SY-TT Leo; Y LMi; TX-TZ Lib; RS-RT Lyn; XX Lyr; W Men; BD-BK Oph; CI-CM Ori; SV Pav; RY Pac; SX-TV Pup; FK-FS Sgr; BT Sco; BS Sct; VW-VX Ser; V Sex; WY Tau; AD Vel; VX-XY Vir; WW Vul]

_____. 1928, *Astr. Nachr.*, 232, 353 [Errata: 1929, *Astr. Nachr.*, 235, 191; 1929, *Astr. Nachr.*, 236, 279] [25th Name-List]
[RS Ant; BQ Aql; UX-UY Ara; SU CVn; FX Car; BC-BE Cas; VY Cep; V Cir; RY Com; VY-AB CrA; SU Cru; DM-DQ Cyg; RZ,*β* Dor; AW-AX Her; RS Hor; TW Hya; RU-RV Ind; VZ-AO Lac; SX Lup; UX Mon; SZ Mus; SS Nor; SU-SW Oct; BL-BQ Oph; CN Ori; SW Pav; RS-RV Phe; RS-RT Pic; TW-TX Pup; T Ret; FT-KV Sgr; BU-CR Sco; WZ-XX Tau; RW TrA; TZ-UV Tuc; TT UMa; AB-AF Vel; X Vol; WX Vul]

_____. 1929, *Astr. Nachr.*, 234, 377 [Errata: 1929, *Astr. Nachr.*, 235, 191; 1929, *Astr. Nachr.*, 236, 279; 1935, *Astr. Nachr.*, 254, 183] [26th Name-List]
[AE-AF And; XZ-AB Aqr; ER-ET Aql; AH-AK Aur; ST-SU Cnc; SZ Cep; FY Car; AA Cas; BF-BK Cen; VZ-XY Cep; AC-AM CrA; SV-TU Cru; DR-DU Cyg; WZ-XX Dra; AB-AO Gem; AY-AZ Her; TX-UV Hya; TU Leo; UU Lib; RU Lyn; XY-XZ Lyr; UY-UZ Mon; TT-UZ Mus; BR-KU Oph; CO-CQ Ori; AG Per; TY Pup; ST Sge; KW-V347 Sgr; CS-GI Sco; VY-VZ Ser; W Sex; XY-YY Tau; AG Vel; YY-AF Vir;]

_____. 1929, *Astr. Nachr.*, 237, 169 [27th Name-List]
[AC-AD Aqr; EU-EZ Aql; AL Aur; SV CVn; X-RT CMi; AB Cas; BL-CM Cen; XZ Cep; W Cir; RZ-ST Com; DV-PG Cyg; BB-BD Her; AF-BF Lac; TV Leo; W Lep; UV Lib; SY-AW Lup; YY-AN Lyr; VV Mon; ST Nor; KV-V365 Oph; CR-DF Ori; RU Pic; V348-V354 Sgr; GK-KO Sco; WW Ser; TU-TV UMa; AG-AI Vir; WY-AB Vul]

Var

Guthnick, P., and Prager, R. 1930, *Astr. Nachr.*, 240, 233 [Errata: 1930, *Astr. Nachr.*, 240, 439; 1931, *Astr. Nachr.*, 242, 399; 1933, *Astr. Nachr.*, 248, 199] [28th Name-List]
[AG-AM And; FF-HI Aql; UZ-VV Ara; RT Ari; AM-AO Aur; SV-SW Cam; SV-SW Cnc; RR-RS CMa; RU-VY CMi; TT Cap; FZ-GL Car; AC-AN Cas; CN-IU Cen; YY-ZZ Cep; X Cir; U-V Crv; FH-GY Cyg; RU-SX Del; XY Dra; SV-SY Eri; AP-AS Gem; BE-BZ Her; UW-UZ Hya; BG-BH Lac; X Lap; AO-BZ Lyr; VW-AM Mon; VV Mus; SU-WW Nor; V366-V412 Oph; DG-EO Ori; SX Pav; AS Peg; AH-AW Per; RW Phe; TZ-UY Pup; SU-TY Sge; V355-V362 Sgr; KP Sco; WX-WZ Ser; YZ-AA Tau; TW UMa; AK-AL Vir; AC-AK Vul]

_____. 1931, *Astr. Nachr.*, 244, 81 [29th Name-List]
[AN And; X-VW Aps; AB-BI Aqr; HK-KN Aql; VW-YZ Ara; RU Ari; AP Aur; UV Boo; SX Cam; SX-SY Cnc; AO-AR Cas; IV-KR Cen; AA-AC Cep; RT Cet; Y-AM Cir; TV-VZ Cru; GZ-MV Cyg; SY-SZ Del; XZ Dra; SZ-UV Eri; V-RY For; CC-CS Her; VV Hya; BI-CL Lac; TW Leo; UW-VV Lib; AX-CS Lup; CC-EV Lyr; VW-AX Mus; WX-GK Nor; V413-V437 Oph; EP-ER Ori; AT Peg; X-RU PsA; UZ-VV Pup; V363 Sgr; KQ Sco; RV-SV Sel; BT-BZ Sct; XX-AA Ser; RX-BE TrA; TX UMa; AH-AI Vel; AM-AR Vir; AL-AS Vul]

_____. 1932, *Astr. Nachr.*, 247, 121 [30th Name-List]
[AO-AP And; BK-BS Aqr; KO-PV Aql; ZZ-AD Ara; AQ-AS,*ζ* Aur; SY Cam; SW-SX CVn; RT-SS CMa; TU-TV Cap; AS-BC Cas; KS-LQ Cen; RU-RW Cet; SU-TT Com; AN-BL CrA; MW-MZ Cyg; TT-TU Del; UW-WW Eri; AT-AU Gem; CT-DI Her; VW-VX Hya; RW Ind; CM Lac; Y-RS Leo; EW-EZ Lyr; AN-AT Mon; GL-GZ Nor; V438-V439 Oph; BS-FF Ori; AU-BK Peg; AX Per; RZ-SV Psc; VW-XZ Pup; TZ-UW Sge; V364-V440 Sgr; CC-CD Sct; AB Tau; RS Tri; AS-AU Vir; AT-AY Vul]

_____. 1933, *Astr. Nachr.*, 249, 253 [Erratum: 1934, *Astr. Nachr.*, 251, 253] [31st Name-List]
[BT-BW Aqr; PW-PY Aql; AE Ara; AT Aur; SZ Cnc; ST-TT CMa; TW-TX Cap; LR-MM Cen; RX-RZ Cet; BM-DO CrA; WW-YZ Cru; NN-V363 Cyg; RZ For; AV-AW Gem; VY Hya; FF Lyr; AV-AW Mon; AY-BF Mus; SY Pav; AY Per; YY-AC Pup; W Pyx; V441-V502 Sgr; KR-KS Sco; AZ-BC Vul]

_____. 1934, *Astr. Nachr.*, 251, 257 [Errata: 1934, *Astr. Nachr.*, 252, 387; 1934, *Astr. Nachr.*, 253, 359] [32nd Name-List]
[AQ-AR And; BX-CE Aqr; PZ-V335 Aql; AU-BB Aur; SZ Cam; TU-TW CMa; VZ CMi; TY-UV Cap; GM-GN Car; BD-CG Cas; MN-MS Cen; AD-AH Cep; SS Cet; DP CrA; ZZ-AC Cru; V364-V367 Cyg; AX Gem; DK-DM Her; VZ-WX Hya; CN-CO Lac; TX-TY Leo; VW-VX Lib; AX-BD Mon; V440-V444 Oph; FG-FI Ori; V503-V505 Sgr; KT-KU Sco; CB-CI Sct; AB-AG Ser; X Sex; AC-AE Tau; TY-UY UMa; BD Vul]

_____. 1936, *Astr. Nachr.*, 258, 161 [33rd Name-List]
[CP-CZ Aqr; V336-V341 Aql; AF-BV Ara; RV Ari; BC-BD Aur; UW-UX Boo; TT-TU Cnc; TX-UV CMa; WW-WZ CMi; UW-WZ Cap; GO Car; CH Cas; MT-V341 Cen; AI-AL Cep; AN-AO Cir; DQ-DS CrA; W Crv; U-X Crt; V368-V378 Cyg; TV Del; YY Dra; WX-AR Eri; SS Por; AY-BC Gem; DO-DX Her; WY-WZ Hya; R-SY Hyi; TZ Leo; RT Lep; VY Lib; FG-FH Lyr; BE-BM Mon; BG-BH Mus; HH-HQ Nor; SX-TU Oct; V445-V451 Oph; FK-FR Ori; BL-DM Peg; AZ-BB Per; RX-RZ Phe; SW-SZ Psc; AD-AF Pup; V506-V524 Sgr; KV-V379 Sco; SW-UU Scl; AH-AL Ser; AF-AM Tau; UW-XY Tuc; AK-AM Vel; AV-AY Vir; BE-BM Vul]

_____. 1936, *Astr. Nachr.*, 260, 393 [Errata: 1936, *Astr. Nachr.*, 261, 71; 1938, *Astr. Nachr.*, 265, 175] [34th Name-List]
[AS-AT And; RT-SW Ant; V342-V346 Aql; BW-CG Ara; BB-BI Aur; UY Boo; TT-TU Cam; UW-UX CMa; GP-GU Car; V342-V381 Cen; AM-AN Cep; SV Cet; AD-AG Cru; V379-V387 Cyg; TW-TY Del; BD-BE Gem; DY-DZ Her; XX-AH Hya; CP-CR Lac; UU-UV Leo; BN Mon; HR Nor; V452-V456 Oph; DN-DO Peg; TT Psc; AG-AW Pup; X-RX Pyx; V525-V527 Sgr; V380-V384 Sco; UV-UW Scl; AM-AO Ser; AN-AS Tau; AN-AS Vel; AZ-BB Vir; BN-BQ Vul]

Guthnick, P., and Schneller, H. 1937, *Astr. Nachr.*, 263, 293 [Errata: 1937, *Astr. Nachr.*, 263, 467; 1938, *Astr. Nachr.*, 265, 13; 1938, *Astr. Nachr.*, 265, 223; 1938, *Astr. Nachr.*, 266, 283] [35th Name-List]
[DD Aqr; V347-V405 Aql; CH-IO Ara; RW Ari; BK-CE Aur; TV-TZ Cam; TV Cnc; UY-VV CMa; CI-CO,*γ* Cas; V382 Cen; AO Cep; SW Cet; DT-IU CrA; X Crv; Y Crt; V388-V389 Cyg; TZ-BB Del; BF-BG Gem; EE-FM Her; CS Lac; UW-UX Leo; FI-FL Lyr; BO Mon; BI Mus; V457-V501 Oph; SZ-AH Pav; BB-BM Per; AX-BB Pup; UX-UY Sge; V528-V721 Sgr; V385-V448 Sco; AP-BB Ser; AT-BF Tau; BC-BE Vir; BQ Vul]

_____. 1939, *Astr. Nachr.*, 268, 165 [36th Name-List]
[AU-AW And; SX-UW Ant; DB-DN Aqr; V406-V445 Aql; IP-KP Ara; RX Ari; CF-CX Aur; UU-UZ Cam; TW-TZ Cnc; VW-VZ CMa; XX-YY CMi; XX-YY Cap; GV Car; CP-CS Cas; V383-V418 Cen; AP-AT Cep; SX-TV Cet; AP Cir; IV-IX CrA; Y Crv; Z Crt; AH-AK Cru; V390-V400 Cyg; BC-BT Del; YZ-AA Dra; AS-BB Eri; BH-BN Gem; FN-GM Her; AI-BC Hya; TU-TV Hyi; CT-CW Lac; UY-VV Leo; FM-FP Lyr; BP-BS Mon; BK-BN Mus; HS-HX Nor; TV Oct; V502-V515 Oph; FS-FT Ori; AI-AR Pav; DP-DU Peg; BO-BR Per; SS-SU Phe; TU-TV Psc; BC-BK Pup; RY-ST Pyx; UZ Sge; V722-V731,μ Sgr; V449-V452,μ^1 Sco; UX Scl; *ι* Set; BC-BE Ser; BG-BT Tau; RT Tri; XZ Tuc; UZ UMa; Y UMi; AT-BG Vel; BP-BG Vir; BS-BV Vul]

Guthnick, P., and Schneller, H. 1940, *Astr. Abh., Ergänz. Astr. Nachr.*, 10, Nr. 3 [37th Name-List]
[ο And; V446-V447 Aql; CY-CZ Aur; VV-VZ Cam; UU Cnc; SY CVn; WW CMa; GW-HK Car; CT-DD Cas; V419-V432 Cas; AU-BC Cep; TU Com; ST CrB; V401-V404 Cyg; AB Dra; BC Ert; GN-GQ Her; BD Hya; CX Lac; RU Leo; FU Ori; DV-DZ Peg; BS Per; BL-BN Pup; V732-V733 Sgr; V453 Sco; BF-BG Ser; BU-BV Tau; VV UMa; Z UMi; BH,ω Vir; BW Vul]

_____. 1941, *Astr. Abh., Ergänz. Astr. Nachr.*, 10, Nr. 5 [38th Name-List]
[AX-AZ And; V448-V461 Aql; KQ-KZ Aur; RY Ari; DB-DI Cas; BD-BE Cep; SU CrB; V405-V413 Cyg; GR-HS Her; CY-CZ Lac; BT Mon; V516-V531 Oph; AS-BF Pav; EH Peg; BT Per; VV-VX Sgr; V734 Sgr; V454-V497 Sco; TZ-AX Tel]

_____. 1941, *Astr. Abh., Ergänz. Astr. Nachr.*, 10, Nr. 6 [39th Name-List]
[UX-VV Ant; V462-V472 Aql; LL-LN Aur; RZ Ari; DD-EH Aur; UZ Boo; UV Cnc; WX-XX CMa; HL-IT Car; DK-DQ Cas; V433-V490 Cas; BF-CN Cep; IY CrA; AL Cru; V414-V446 Cyg; BU-BV Del; BD-BG Eri; BO-BP Gem; π^1 Gru; HT-KM Her; BB-CP Hya; DD Lac; VW-VX Leo; VZ Lib; FQ-HH Lyr; BU-BX Mon; BO Mus; V532-V533 Oph; FV-FW Ori; BG Pav; BO-CE Pup; VY Sgr; V735-V742 Sgr; V498-V500 Sco; BW-CC Tau; AY-BH Tel; BH-BI Vel; BI-BY Vir; BX-CD Vul]

_____. 1942, *Astr. Abh., Ergänz. Astr. Nachr.*, 11, Nr. 1 [40th Name-List]
[VW Ant; VX-WW Aps; V473-V492 Aql; LO-MS Aur; EI-EK Aur; WW Cam; UW-UX Cnc; XY-AP CMa; IU Car; DR-GG Cas; V491-V549 Cas; AQ Cir; RS-RX Cnt; SV CrB; AM-AN Cru; V447-V448 Cyg; BH-BI Ert; ST For; Y Gru; KN-LP Her; RT Hor; CQ-CZ Hya; RX-RY Ind; CT-EV Lup; X Men; RR Mic; BP Mus; HY Nor; TW Oct; V534-V677 Oph; BH-BU Pav; BU-BW Per; SV-SW Phe; RV-RW Pic; TW Pse; RV-RX PsA; CP-CO Pup; SU-SV Pyx; V743-V796 Sgr; V501-V557 Sco; UY Scl; BH-BZ Ser; CD Tau; BI-BR Tel; EP TrA; YY-YZ Tuc; VW UMa; BK-CI Vel]

_____. 1943, *Astr. Abh., Ergänz. Astr. Nachr.*, 11, Nr. 3 [41st Name-List]
[χ Aqr; V493-V500 Aql; ψ^1 Aur; γ Boo; α^1 CVn; AQ-BF CMa; V449-V450 Cyg; BW-EH Del; AC Dra; BQ Gem; LQ Her; VY Lac; θ^1 Lyr; η Ori; BY-CP Mon; HZ-II Nor; V678-V679,χ Oph; β Peg; φ Per; CP Pup; VZ-WW Sge; V797-V907 Sgr; CK-CZ Scl; CE Tau; RR UMi; CK Vul]

Kukarkin, B.V., and Parenago, P.P. 1946, *42nd Name-List of Variable Stars* (Moscow: IAU) [Errata: 1946, *43rd Name-List of Variable Stars* (Moscow: IAU), p. 77] [42nd Name-List]
[V501-V525 Aql; GH-GS Cas; SW CrB; LR Her; CQ-DO Mon; EY Ori; BX-ER Per; DD Scl]

_____. 1946, *43rd Name-List of Variable Stars* (Moscow: IAU) [Errata: 1948, *44th Name-List of Variable Stars* (Moscow: IAU), p. 29] [43rd Name-List]
[BB-BG And; DO-DS Aqr; V526-V596 Aql; MT-OX Ari; SS Ari; EL-BQ Aur; VV-VW Boo; WX-WY Cam; UY Cnc; SZ CVn; YZ-ZZ Cep; IW Cas; GT-IX Cas; V570-V589 Cen; CO-CR Cep; TW-UU Cet; IZ-V383 CrA; Z-SS Crv; V451-V459 Cyg; EI-EM Del; X-RT Equ; BK-BL Eri; BS-DG Gem; LS-MT Her; RU-SV Hor; DD-ES Hya; TW-VX Hyi; DE-DG Lac; VZ-WX Leo; WW-DZ Lib; EW Lup; RV Lyn; Y-Z Men; DP-FS Mon; IK Nor; V680-V834 Oph; FZ-GN Ori; BV-CK Pav; EF-EI Peg; ES-FY Per; TX Psc; CQ Pup; U-SS Ret; WX Sge; V908-V926,υ Sgr; V558-V695 Sco; CC-CR Ser; Y Sex; CF-CG Tau; VX UMa; BZ-CG Vir; CB-CF Vul]

Kukarkin, B.V., Parenago, P.P., Efremov, Yu.I., and Kholopov, P.N. 1948, *44th Name-List of Variable Stars* (Moscow: IAU) [Errata: 1949, *45th Name-List of Variable Stars* (Moscow: IAU), p. 26] [44th Name-List]
[BH-BK And; V597-V602 Aql; ST Ari; ER-ET Aur; VX-WX Boo; WZ Cam; UZ-VW Cnc; TT CVn; BG-BY CMa; ZZ CMi; AA Cap; IY-KK Cas; V590-V594 Cen; CS-CW Cep; TV Com; V384 CrA; ST Crv; RR-RS Crt; V460-V473 Cyg; BM-BP Eri; DH-DL Gem; MU-NO Her; ET-EX Hya; DH Lac; WY-AA Leo; EE Lib; EX Lup; HI-HQ Lyr; FT-FW Mon; V835-V839 Oph; GO-GQ Ori; CL Pav; EK Peg; FZ-GI Per; CR-DP Pup; V927-V984 Sgr; V696-V697 Sco; DB-EP Ser; CS-CV Ser; Z Sex; CH-CO Tau; VY-WW UMa; CL Vel; CG-CI Vul]

_____. 1949, *45th Name-List of Variable Stars* (Moscow: IAU) [Errata: 1950, *46th Name-List of Variable Stars* (Moscow: IAU), p. 41] [45th Name-List]
[V603-V609 Aql; OY Aur; SU-SV Ari; WY-WZ Boo; XX-YZ Cam; VX-VY Cnc; BZ-DE CMa; AB Cap; IX Car; KL-KM Cas; CX-CY Cep; AR Cir; RT-RU Crt; AO-AP Cru; V474-V479 Cyg; DM-DN Gem; NP-NQ Her; EY-FF Hya; DI Lac; AB Leo; EP Lib; HR Lyr; FX-GK Mon; IL-IM Nor; V840-V849 Oph; GR-GT Ori; EL Peg; GK Per; TY Psc; DQ-DY Pup; WY-WZ Sge; V985-V1147 Sgr; V698-V717 Sco; BQ-ET Scl; CW Ser; CP Tau; CM-CN Vel; CH-CM Vir; CK Vul]

_____. 1950, *46th Name-List of Variable Stars* (Moscow: IAU) [46th Name-List]
[BL-BM And; V610-V794 Aql; OZ-QW Ari; EU-GI Aur; XX Boo; TU CVn; YZ,AA CMi; KN Cas; UV Cet; V480-V539 Cyg; AD Dra; DO-DT Gem; NR Her; FG-FI Hya; DK Lac; AC-AF Leo; GL Mon; V850-V851 Oph; GU Ori; CM-DD Pav; GL-HR Per; XX-CT Sge; V1148-V1151 Sgr; V718 Sco; EU Scl; CQ-CT Tau; BS-GR Tel; WX UMa; ε UMi; CO-VS Vel; CL-DN Vul]

Var

Kukarkin, B.V., Parenago, P.P., Efremov, Yu.I., and Kholopov, P.N. 1951, *47th Name-List of Variable Stars* (Moscow: IAU) [47th Name-List]
[BN-BV And; VX-WX Ant; WX-WY Aps; DT-DU Aqr; V795-V838 Aql; QX-V339 Ara; SW Ari; GK-GR Aur; XY-YY Boo; ZZ Cam; VZ Cnc; DP-DQ CMa; AB-AF CMi; AC Cap; IY-KP Car; KO-LQ Cas; V595-V643 Cen; CZ-DH Cep; UW-UX Cet; V-Y Cha; TW Com; V385-V391 CrA; V540-V686,σ^1 Cyg; EN-ET Del; SS-SV Dor; BQ Eri; SU For; DU-EH Gem; NS-V335 Her; SW Hor; FK-FQ Hya; VY-WY Hyi; RZ-SS Ind; DL-EI Lac; AG-AK Leo; RV Lep; BG-BO Lib; EY-FP Lup; RW-RY Lyn; HS-MP Lyr; RR Men; RS-RY Mic; GM-IK Mon; BQ Mus; IN-IO Nor; TX-UU Oct; V852-V903 Oph; GV-V345 Ori; DB-DM Pav; EM-EP Peg; HS-IK Per; TZ Psc; RY-SU PsA; DZ-FT Pup; SW-SY Pyx; ST Ret; CU-CZ Sge; V1152-V1171 Sgr; V719-V720,α Sco; EV-FQ Scl; CX-DE Ser; CU-EO Tau; GS-GX Tel; BG-EI TrA; ZZ-AC Tuc; WY-WZ UMa; CT-EG Vel; CN-CR Vir; Y Vol; DO-DZ Vul]

_____. 1952, *Fourth Supplement to the First Edition of the General Catalogue of Variable Stars* (Moscow-Leningrad: Acad. Sci. U.S.S.R.) [48th Name-List]

Kukarkin, B.V., Parenago, P.P., Efremov, Yu.I., and Kholopov, P.N. 1953, *Fifth Supplement to the First Edition of the General Catalogue of Variable Stars* (Moscow-Leningrad: Acad. Sci. U.S.S.R.) [49th Name-List]

_____. 1954, *Sixth Supplement to the First Edition of the General Catalogue of Variable Stars* (Moscow: Acad. Sci. U.S.S.R.) [50th Name-List]

_____. 1955, *Seventh Supplement to the First Edition of the General Catalogue of Variable Stars* (Moscow: Acad. Sci. U.S.S.R.) [51st Name-List]

_____. 1956, *Eighth Supplement to the First Edition of the General Catalogue of Variable Stars* (Moscow-Leningrad: Acad. Sci. U.S.S.R.) [52nd Name-List]

Efremov, Yu.I., and Kholopov, P.N. 1958, *Ninth Supplement to the First Edition of the General Catalogue of Variable Stars* (Moscow: Acad. Sci. U.S.S.R.) [53rd Name-List]

Kukarkin, B.V., Efremov, Yu.N., and Kholopov, P.N. 1960, *First Supplement to the Second Edition of the General Catalogue of Variable Stars* (Moscow: Astr. Council Acad. Sci. U.S.S.R. and Sternberg State Astr. Inst., Univ. Moscow) [54th Name-List]
[DO-DY And; WZ-XY Aps; V912-V926 Aql; SY-SZ Ari; HN-HT Aur; AD-AE Boo; AK-AL Cam; YZ Cnc; TX-UW CVn; AM CMi; V363-V375 Cas; V679-V683 Cen; EP-EM Cep; VZ Cet; RR Cha; TY-VW Com; V414-V421 CrA; β Cru; V789-V837 Cyg; FU-FZ Del; AR-AW Dra; RV Equ; CC-CD Eri; GZ-HK Gem; RZ Gru; V361-V446 Her; GG-GI Hya; FR-FT Lac; AN-AO Leo; RR LMi; TU-TW Lyn; MW-NZ Lyr; QT-V391 Mon; UX Oct; V970-V988 Oph; V429-V530 Ori; DO Pav; EV-FF Peg; IZ-KS,ρ Per; TU Phe; UV-UW Psc; SV-SW PsA; DG-DK Sge; V1712-V1943 Sgr; V729-V752 Sco; FT-FU Scl; DT-DV Ser; FL-GQ Tau; AC-AD UMa; RT UMi; CV Vir; ES-FK Vul]

Kukarkin, B.V., Kholopov, P.N., Prolov, M.S., Efremov, Yu.N., Kukarkina, N.P., Medvedeva, G.I., Perova, N.B., and Fedorovich, V.P. 1967, *Second Supplement to the Second Edition of the General Catalogue of Variable Stars* (Moscow: Astr. Council Acad. Sci. U.S.S.R.) [55th Name-List]
[DZ-EZ And; XZ-EZ Aps; DV-EH Aqr; V927-V1102 Aql; V342-V539 Ara; TT-TX Ari; HU-KV Aur; AF-BP Boo; AM-AZ Cam; ZZ-AR Cnc; UX-ZZ CVn; EI-EW,β,ω CMa; AN-AP CMi; AF Cap; KW-PW Car; V376-V407 Cas; V684-V741,σ^1 Cas; EN-GV Cep; WW-XY Cet; RS-BU Cha; AT-AX Cir; SS-ST Col; VX-BU Com; V422-V449 CrA; SY-TU CrB; AQ-BF Cru; V838-V1101 Cyg; GG-GX Del; VY Dor; AX-BS Dra; RW-SU Equ; CE-CR Eri; SY-SZ For; HL-IV Gem; SS-AQ Gru; V447-V536 Her; GK-HP Hya; XY-AZ Hyi; SV-AQ Ind; PU-GM Lac; AP-BS Leo; RS-RV LMi; RY Lep; BQ-FY,σ Lup; TX-UU Lyn; OO-QZ Lyr; RX-UW Men; SS-AS Mic; V392-V473 Mon; BS-CT Mus; IR-LU Nor; UY-BG Oct; V989-V1014,β Oph; V531-V647 Ori; DP-KY,λ Pav; PG-GS Peg; KT-OX Per; TV-AC Phe; δ Pic; UX-UZ,σ Psc; SX-SZ,π PsA; HM-KM Pup; TW Pyx; DL-FS Sge; V1944-V2281 Sgr; V753-V764 Sco; VV-VX Scl; FV-V365 Sct; DW-BG Ser; GR-HY Tau; HI-KL Tel; EM-FY TrA; AP-BP Tuc; AB-BG UMa; RU-RW UMi; FT-FU Vel; CW-CZ Vir; Z-TW Vol; FL-IN Vul]

Kukarkin, B.V., Kholopov, P.N., Efremov, Yu.P., Kukarkina, N.P., and Perova, N.B. 1970, *56th Name-List of Variable Stars* (Moscow: Astr. Council Acad. Sci. U.S.S.R. and Sternberg Astr. Inst. of Moscow Univ.) [56th Name-List]
[FF-GM And; XX-XZ Ant; FF-FR Aps; EI Aqr; V1103-V1180 Aql; V540-V608 Ara; TY Ari; KW-LX Aur; BC-BU,κ^1 Boo; W Cae; AA-AO CVn; EX-FF CMa; AQ-AU CMi; FX-PZ Car; V408-V444,β Cas; V742-V745 Cen; GW-HQ,α Cep; XZ Cet; BV-BW Cha; AY-BH Cir; BV-FL Com; V450-V653 CrA; TV,β CrB; V1102-V1252 Cyg; GY-HT Del; VZ Dor; BT-CI Dra; IW-LM Gem; V537-V585 Her; HQ-HS,χ^2 Hya; GN-HI Lac; BT-CM Leo; ES-FU Lib; FZ-GH Lup; UV Lyn; V335-V385 Lyr; UX Men; V474-V537 Mon; CU-DN Mus; V1015-V1118 Oph; V648-V673 Ori; KZ Pav; GT-GV Peg; OY-V348 Per; SS-ST Pic; VV-VW Psc; KN-MN Pup; TX-TY Pyx; FT-GR Sge; V2282-V3414 Sgr; V765-V853 Sco; VY-VZ Scl; V366-V367 Set; EH-EY Ser; RU-RV Sex; HZ-IZ Tau; KM-MT Tel; RY-ST Tri; FZ-GT TrA; BH-BY,ω UMa; RX UMi; FV-FW Vel; DD-DO Vir; IO-LS Vul]

Kukarkin, B.V., Kholopov, P.N., and Perova, N.B. 1970, *Inf. Bull. Var. Stars*, No. 480

[57th Name-List]

[GN-GP And; FS-FY Aps; EK-EL Aqr; V1181-V1284 Aql; V609-V613 Ara; TZ-UW Ari; LY-MX Aur; BV-BW Boo; X Cae; AS-BK Cnc; FG-FP CMa; AV-AY CMi; QQ-QU Car; V445-V485 Cas; V746-V749 Cen; HR-IM Cep; YY Cet; BX-BY Cha; BI-BM Cir; SU-SV Col; FM-FS Com; V654-V655 CrA; RV Crt; BG Cru; V1253-V1342 Cyg; HU-IK Del; γ Dor; CK-CN Dra; SV-SW Equ; CS-CT Eri; LN-NO Gem; AR Gru; V586-V633 Her; SZ-TT Hor; HT Hya; AR-AU Ind; HK-HL Lac; CN-CV Leo; RW LMi; FV Lib; GI Lup; V386-V405 Lyr; V538-V576 Mon; DO-DY Mus; BH-BM Oct; V1119-V2044 Oph; V674-V917,φ Ori; LL-MW Pav; GW-GX Peg; V349-V381 Per; AD-AE,φ Phe; SU Pic; VX-VZ Psc; MO-MV Pup; TZ Pyx; GT-GW Sge; V2415-V2617 Sgr; V854 Sco; V368-V369 Set; EZ-FH Ser; KK-V424 Tau; MU-NQ Tel; SU Tri; GU-HH TrA; BZ-CD UMa; DP-DX Vir; TX Vol; LT-LX Vul]

Kukarkin, B.V., Kholopov, P.N., Kukarkina, N.P., and Perova, N.B. 1972, *Inf. Bull. Var. Stars*, No. 717

[58th Name-List]

[GQ-GV And; YY-YZ Ant; FZ-GH Aps; EM Aqr; V1285-V1292 Aql; V614-V620 Ara; γ Ari; MY-NP Aur; BX Boo; Y-Z Cae; BL-BO,α Cnc; FQ CMa; AZ-BB CMi; ε Cap; QV-V335 Car; V486-V509 Cas; V750-V762 Cen; IN-LL Cep; YZ-AB Cet; FT-GG Com; V656-V667 CrA; γ CrB; RW-ST Crt; BH Cru; V1343-V1420,τ Cyg; IL-KP Del; WW-WZ Dor; CO Dra; γ Equ; CU-DH Eri; NP Gem; V634-V641 Her; TU Hor; HU-IK Hya; BB Hyi; HM-PP Lac; CW-CZ Leo; RX LMi; FW-FX Lib; GK-GL Lup; V406-V442 Lyr; AT-AU Mic; V577-V586 Mon; DZ-EF Mus; LV-LW Nor; BN-BO Oct; V2045-V2048 Oph; V918-V963 Ori; MX-NS Pav; τ Peg; V382-V392 Per; ι Phe; SV-SW Pic; MW-MX Pup; SX-SY Ret; GX-GZ Sge; V2618-V3790 Sgr; V855-V862 Sco; WW-XX Scl; V370 Set; FI-FK,δ Ser; V425-V484 Tau; NR-NT Tel; HI-HO TrA; BQ-BR,β Tuc; CB-CF UMa; FX-GM Vel; DY-FF Vir; LY-MO Vul]

_____. 1973, *Inf. Bull. Var. Stars*, No. 834

[59th Name-List]

[GW And; GI-LQ Aps; EN-ET Aqr; V1293-V1295 Aql; V621-V628 Ara; UX Ari; NQ-NX,π Aur; BY Boo; BB Cam; BP-BQ Cnc; AP CVn; FR-FY,ρ^1,σ CMa; AG Cap; V336-V339 Car; V510-V522 Cas; V763-V768,δ Cen; LM-NO Cep; AC-AU Cet; BN Cir; SW-SX Col; GH-GI Com; V668 CrA; SU Crt; V1421-V1435 Cyg; CP-CQ Dra; DI-DM,ρ^1,τ^2,τ^3 Eri; TT For; NQ,μ Gem; AS,β Gru; V642-V643 Her; TV-TX Hor; IL-IM Hya; BC Hyi; PQ-V336 Lac; DD-DE Leo; σ Lib; GM,β Lup; UW-UX Lyn; V443-V455 Lyr; θ^1 Mic; V587-V592 Mon; EG,ε,μ Mus; LX-OY Nor; BP Oct; V2049-V2053 Oph; V964-V997,ρ^1 Ori; NT-NU Pav; GY-HH Peg; V393-V395 Per; AP-AN,φ Phe; WW-WZ Psc; TT-TV PsA; MY-NO Pup; τ Ret; V3791-V3872 Sgr; V863-V871,σ,λ Sco; XY-AH,η Scl; V371 Set; FL-PO Ser; RW-RX Sex; V485-V593,α,ζ Tau; NU Tel; HP-IO TrA; CO-CL UMa; GN,λ,σ Vel; FG-FH,φ,ω Vir]

_____. 1975, *Inf. Bull. Var. Stars*, No. 961

[60th Name-List]

[GX-HH,σ And; ZZ-AD Ant; LR-LU,β^1 Aps; λ Aqr; V1296-V1300 Aql; V629-V641 Ara; NY Aur; BZ-CD Boo; BR-BY Cnc; AQ-AR CVn; FZ-GH CMa; BC CMi; AH Cap; V340-V353 Car; V523-V533 Cas; V769-V776,ε Cen; NR-NY Cep; AV-AW Cet; BZ-CM Cha; SY Col; GK-GP Com; V669-V671 CrA; TW CrB; SV Crv; SV Crt; BI Cru; V1436-V1484 Cyg; KQ Del; XX Dor; CR Dra; DN-DQ Eri; TU-TW For; NR-NT Gem; V644-V648 Her; IN-IP Hya; AV Ind; V337-V349 Lac; DF Leo; RZ-SS Lep; FY-GG Lib; GN-GR Lup; V456 Lyr; UY-VZ Men; AV Mic; V593-V614 Mon; EH-EX Mus; OZ-PP Nor; V998-V1004,ω Ori; NV-NZ Pav; ε Peg; V396-V398,δ Per; AO-AU,γ Phe; SX Pic; XX-YY Psc; NP-NS Pup; UU-UW Pyx; HH-HI Sge; V3873-V3887,η,ρ^1 Sgr; V872-V885 Sco; AI Scl; V372 Set; FP-FR,ρ Ser; RY Sex; V594-V699 Tau; NV-NZ Tel; IP-IU TrA; BS Tuc; CM-CR UMa; GO-GS Vel; FI-PS Vir; TY-UV Vol; MP-MX Vul]

Kukarkin, B.V., Kholopov, P.N., and Kukarkina, N.P. 1975, *Inf. Bull. Var. Stars*, No. 1068

[61st Name-List]

[HI-HN And; LV-LW Aps; V1301-V1312 Aql; V642-V674 Ara; NZ-OX Aur; CE Boo; BC Cam; BZ-CS Cnc; AS CVn; GI CMa; V354 Car; V534-V543 Cas; V777-V782 Cen; NZ-OQ Cep; GQ-GU Com; SW-SX Crv; V1485-V1502 Cyg; IQ-IS Hya; V350 Lac; DG Leo; ST-SV Lep; V457-V458 Lyr; V615-V626 Mon; PQ Nor; V2054-V2057 Oph; V1005-V1007 Ori; OO Pav; HI Peg; V399-V400 Per; YZ-ZZ Psc; TW PsA; NT Pup; V3688-V3891 Sgr; V886-V889 Sco; V373 Set; V700-V710 Tau; SV Tri; IV-IW TrA; BT Tuc; GT Vel; FT-FV Vir; MY-NP Vul]

Kukarkin, B.V., Kholopov, P.N., Pedorovich, V.P., Kireyeva, N.N., Kukarkina, N.P., Medvedeva, G.I., and Perova, N.B. 1977, *Inf. Bull. Var. Stars*, No. 1248

[62nd Name-List]

[HO-KT And; AE Ant; LX-MV,π^1 Aps; EU-EX,σ Aqr; V1313-V1330 Aql; V675-V765 Ara; UY-UZ Ari; OY-QY Aur; CF-CH Boo; BD-BI Cam; CT-CW Cae; AT-AW CVn; GK-GY CMa; BD-BE,β CMi; AI-AM Cap; V355-V362 Car; V544-V567,ρ Cas; V783-V800,η Cen; OR-PU Cep; AX-AY Cet; CN-CQ,ζ Cha; SZ-TU Col; GV-GX Com; V672-V687 CrA; TX CrB; SW Crt; BK-BM Cru; V1503-V1578 Cyg; KR-LO Del; XY-YZ Dor; CS-CY,φ Dra; DR-DX,γ Eri; TX For; NU-NZ Gem; AT-AY,β^2 Gru; V649-V672,ω Her; TY-VX Hor; IT-KS Hya; BD-BF Hyi; AW-AZ Ind; V351-V356 Lac; SW-SY,μ Lep; GH-GR Lib; GS-GY Lup; UY Lyn; V459-V461 Lyr; WW-WX Men; V627-V633 Mon; EY Mus; FR-QQ Nor; BQ-BY Oct; V2058-V2094 Oph; V1008-V1026,α Ori; OP-V338 Pav; HK-HU Peg; V401-V422 Per; AV-AW Phe; AA-AD Psc; NU-OT Pup; UX-UY Pyx; SZ Ret; HK-HR,β Sge; V3892-V3963 Sgr; V890-V907,ζ^1 Sco; AK Scl; V374-V429 Set; FS-LT Ser; RZ Sex; V711-V723 Tau; OO-PP Tel; SW-SZ Tri; IX-KR TrA; BU-CD Tuc; CS-CX UMa; RY UMi; GU-HM,γ^2 Vel; FW-FX Vir; UW-UX Vol; NQ-NW Vul]

Kholopov, P.N., Kukarkina, N.P., and Perova, N.B. 1978, *Inf. Bull. Var. Stars*, No. 1414

[63rd Name-List]

[KU And; MW Aps; EY-EZ,ο Aqr; V1331-V1332 Aql; V766-V798 Ara; QZ-V335 Aur; CI-CK Boo; BK-BL Cam; GZ CMa; AN Cap; V363-V365 Car; V568-V587 Cas; V801-V807 Cen; PV-QZ Cep; GY-GZ Com; V688-V690 CrA; SY-SZ Crv; SX Crt; BN Cru; V1579-V1620 Cyg; CZ-DF,π Dra; λ Eri; ω Gem; AZ-BD Gru; V673-V676 Her; VY Hor; KT-KV,β Hya; BB Ind; V357-V358 Lac; ρ Leo; GS-GV Lib; GZ-HK Lup; V462-V465 Lyr; WY-XX,μ Men; AW Mic; V634-V635 Mon; QR-QT Nor; BZ Oct; V2095-V2104 Oph; V1027-V1028 Ori; V339-V341 Pav; HV-HX Peg; V423 Per; OU-OZ Pup; UZ Pyx; HS Sge; V3964-V4026 Sgr; V908-V912 Sco; V430 Set; LU Ser; V724-V726 Tau; PQ Tel; KS-KX TrA; CE Tuc; CY-CZ UMa; γ UMi; HN-HT Vel; FY-GG Vir; NX Vul]

_____. 1979, *Inf. Bull. Var. Stars*, No. 1581

[64th Name-List]

[KV-KZ And; AF Ant; MX Aps; FF-FH Aqr; V1333-V1339 Aql; V799-V800 Ara; V336-V345, θ Aur; CX-CY Cnc; AX CVn; HH-HI,α CMa; V366-V371 Car; V588-V590 Cas; V808-V814,β,ρ^2 Cen; V335-V338 Cep; AZ,α Cet; θ Cir; HH Com; BO Cru; V1621-V1669,α,ν Cyg; LP-LQ Del; ZZ-AA Dor; DG Dra; DY-DZ Eri; OO-OR,σ Gem; BB-BI Gru; V677-V745,ν Her; KM Hya; V359-V360 Lac; SZ-TT Lep; V466-V469 Lyr; V636-V637 Mon; EZ,θ Mus; QU,μ Nor; V2105-V2110,ζ Oph; V1029-V1021 Ori; HY-II Peg; V424-V435 Per; AX-AY Phe; AB-AF Psc; PP-PQ Pup; HT-HU Sge; V4027-V4034 Sgr; V913-V917 Sco; AL Scl; LV-LW Ser; V727-V731 Tau; PR Tel; ν Tuc; DD-DQ UMa; HU-HV Vel; GH-GK Vir]

Kholopov, P.N., Samus', N.N., Kukarkina, N.P., Medvedeva, G.I., and Perova, N.B. 1981, *Inf. Bull. Var. Stars*, No. 1921

[65th Name-List]

[LL-LQ And; MY Aps; FI-FM Aqr; V1340-V1357 Aql; V801-V820 Ara; VV-VY Ari; V346-V352 Aur; CL-CP Boo; CZ-DV Cae; AY-BH CVn; HK,ι CMa; BP CMi; AO-AP Cap; V372-V382,χ Car; V591-V632,α Cas; V815-V822,χ Cen; V339-V352 Cep; BB-BC Cet; CR-CW Cha; BO-BR Cir; TV,λ Col; HI-HW Com; V691 CrA; TY-TZ CrB; TT-TU Crv; SY Crt; BP-BW,$\delta,\beta^3,\lambda,\mu^2$ Cru; V1670-V1739 Cyg; LR-LS Del; α Dor; DH-DL Dra; EE-EH,τ^9 Eri; TY-TZ,ν For; OS Gem; BI-BO Gru; V746-V772 Her; KX-KZ,η Hya; BC Ind; DH-DI Leo; RY LMi; HL-HO Lup; UZ-VV Lyn; V470-V476,α Lyr; XY Men; V638-V645 Mon; FF-GI,α,η Mus; QV-QX Nor; CC-CD,σ Oct; V2111-V2118,ω Oph; V1032-V1056 Ori; V342,ρ Pav; IK-IM Peg; V436-V470 Per; AZ,ξ Phe; SY Pic; AG-AN Psc; TX PsA; PR-QR Pup; VV Pyx; HV-QQ Sge; V4035-V4064 Sgr; V918-V926 Sco; AM-AO Scl; V431-V432 Set; LX-MN Ser; V732-V781,β^2,ρ,ν Tau; PS-PW Tel; TT-UU Tri; KY-KZ TrA; CP-CG Tuc; DH-DR UMa; RZ UMi; HW-IR Vel; GL-GV Vir; NY-PU Vul]

_____. 1981, *Inf. Bull. Var. Stars*, No. 2042

[66th Name-List]

[MZ Aps; V1358-V1359 Aql; V821-V822 Ara; V353-V360 Aur; ξ Boo; BM-BN Cam; DW Cnc; BI CVn; HL CMa; V383-V385 Car; V633-V638 Cas; V823-V828 Cen; V353-V356 Cep; CX-DH Cha; BS Cir; V692-V693 CrA; UU CrB; BX Cru; V1740-V1761 Cyg; DM-DN Dra; OT Gem; V773-V775 Her; LL Hya; V361-V364 Lac; DK Leo; VW Lyn; V477-V478 Lyr; XZ Men; AX Mic; V646-V647 Mon; GK-GP Mus; QY-QZ Nor; CE Oct; V2119-V2127 Oph; V1057-V1084 Ori; V471,ξ,φ Per; SZ Pic; AO Psc; QS-QV Pup; VW Pyx; V4065-V4069 Sgr; V927 Sco; MO-MP Ser; SS Sex; V782-V809 Tau; PX-PZ Tel; LL-LQ TrA; DS-DU UMa; IS-IW Vel; PV Vul]

Kholopov, P.N., Samus', N.N., Kazarovets, E.V., and Perova, N.B. 1985, *Inf. Bull. Var. Stars*, No. 2681

[67th Name-List]

[LR-MZ And; FN-FO Aqr; V1360-V1376 Aql; V823-V827 Ara; V361-V363 Aur; CQ,ι Boo; BO-BU Cam; DX-EG Cnc; HM-HO CMa; BG CMi; AQ Cap; V386-V408 Car; V639-V654 Cas; V829-V836,ν Cen; V357-V362 Cep; BD-BG Cet; BT-BV,α Cir; TW Col; HX-IK Com; V1762-V1815 Cyg; AB Dor; DO-DT Dra; EI Eri; OU Gem; BP Gru; V776-V816 Her; LM-LN Hya; BG-BN Hyi; BD-BE Ind; V365 Lac; DL-DQ,β Leo; RZ-ST LMi; TU-TW Lep; GW-HH Lib; HP-HQ Lup; VX-AN Lyn; V479-V482 Lyr; YY Men; V648-V651 Mon; GQ-GR Mus; V335-V341 Nor; CF-CI Oct; V2128-V2204 Oph; V1085-V1155 Ori; V343 Pav; IN-IP Peg; V472-V482 Per; BB-BC Phe; TT Pic; AP-AS Psc; TY PsA; QW-V337 Pup; TT Ret; QR-QV Sge; V4070-V4091 Sgr; V928-V951 Sco; V433-V440 Set; MQ-MV Ser; ST-SY Sex; V810-V836 Tau; QQ Tel; UV-UW Tri; LR TrA; CH-CL Tuc; DV UMa; SS-SU UMi; IX-KQ Vel; GW-HT,φ Vir; PW-QT Vul]

Kholopov, P.N., Samus', N.N., Kazarovets, E.V., and Kireeva, N.N. 1987, *Inf. Bull. Var. Stars*, No. 3058

[68th Name-List]

[NN-OU And; AG Ant; FP-HK Aqr; V1377-V1401 Aql; V828-V830,ι Ara; VZ Ari; V364-V389 Aur; CR-CV Boo; BV-BX Cam; EH-EI Cnc; BK-BM CVn; HP-HQ CMa; AR-AS Cap; V409-V414 Car; V655-V657 Cas; V837-V842 Cen; V363,ν Cep; BH-BK Cet; IL-IN Com; UV CrB; SZ Crt; BY-CC Cru; V1816-V1917 Cyg; LT Del; AC-AF Dor; DU-DX Dra; EK,β Eri; UU For; OV Gem; BQ-CC Gru; V817-V822 Her; VZ Hor; LO-LT Hya; BO-BP Hyi; BF-BG Ind; V366-V367 Lac; DR-DS Leo; TX-TZ Lep; HI Lib; HR Lup; AO-BC Lyn; V483-V487 Lyr; YZ-AA Men; AY-BL Mic; V652-V681 Mon; GS Mus; V342-V346 Nor; V2205-V2211 Oph; V1156-V1191 Ori; IQ-KO Peg; V483-V492,ε,τ Per; BD Phe; TU Pic; AT-AZ Psc; V338-V342 Pup; V4092-V4133 Sgr; V952-V960 Sco; AP Scl; V441 Set; MW-MZ Ser; SZ Sex; V837-V962 Tau; DW-EH UMa; KR-KV Vel; HU-HV Vir; UY Vol; QU Vul]

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Kholopov, P.N., Samus, N.N., Kazarovets, E.V., Frolov, M.S., and Kireeva, N.N. 1989, *Inf. Bull. Var. Stars*, No. 3323 [69th Name-List]

[OV-PR And; AH Ant; HL-HP Aqr; V1402-V1412 Aql; V831-V832 Ara; WW-WX Ari; V390-V392 Aur; CW Boo; RR Cae; BY Cam; AT-AU Cep; V415-V428 Car; V658-V665 Cas; VB43-VB54 Cen; V365-V368 Cep; BL Cet; BW Cir; TX Col; V694 CrA; δ CrB; TT Crt; CD-CE Cru; V1918-V1942 Cyg; AG-AI Dor; DY-EE,o Dra; EL-EM,τ^4 Eri; UV-UZ For; OW Gem; CD Gru; VB23-VB28,λ Her; WW Hor; LU-LW,α Hya; BQ-BS Hyi; BH Ind; V368-V374 Lac; DT Leo; SU-SX LMi; UU Lep; HK Lib; BD-BF Lyn; V488 Lyr; AB-AE Men; BM-BN Mic; V682-V686 Mon; GT Mus; V347-V348 Nor; V2212-V2244 Oph; V1192-V1197 Ori; KP-KT Peg; V493-V499 Per; BE Phe; TV-TZ Pic; BB Pse; TZ PsA; V343-V344 Pup; VX Pyx; TU Ret; QW-QX Sge; V4134-V4140 Sgr; V961-V971 Sco; AQ-AS Scl; NN-NP Ser; β Sex; V963-V1001 Tau; UX-WY Tri; LS-LT TrA; CM Tuc; EI-EM UMa; KW-LL Vel; HW-HX Vir; QV-QZ Vul]

Kazarovets, E.V., and Samus, N.N. 1990, *Inf. Bull. Var. Stars*, No. 3530 [70th Name-List]

[PS-PV And; HQ-HR Aqr; WY Ari; BZ Cam; EK-ER Cae; BN-BO CVn; BH-BI CMi; AV Cap; V429-V431 Car; V666-V667 Cas; VB55-VB56 Cen; V369-V374 Cep; BM Cet; DI Cha; IO Com; V1943-V1963 Cyg; LU Del; EF-EH Dra; EN Eri; VV For; OX-OY Gem; CE Gru; VB29-VB31 Her; V375 Lac; HL-HM Lib; HS-HT Lup; BG-BH Lyn; V687-V689 Mon; V349 Nor; V2245-V2250 Oph; V1198-V1201 Ori; KU Peg; V500-V501 Per; BF Phe; BC-BD Psc; V345-V346 Pup; QY Sge; V4141-V4153 Sgr; V972-V977 Sco; AT-AW Scl; V442-V443 Sct; V1002-V1028 Tau; WZ Tri; LU-LV TrA; EN,ξ UMa; LM-LR Vel; HY-HZ Vir]

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