APPENDIX I.

SEVEN-YEAR CATALOGUE

OF

2022 STARS,

DEDUCED FROM

OBSERVATIONS,

EXTENDING FROM 1854 TO 1860,

AT THE

ROYAL OBSERVATORY, GREENWICH,

AND REDUCED TO THE EPOCH

1860.

ERRATA.

Page.

{xxiv} No. 196, γ Persei, Mean N.P.D. 1860, Jan. 1, *for* 37°. 3′. 42″·76 *read* 37°. 2′. 42″·76.

{xxx} No. 303, 46 Tauri, Mean R.A. 1860, Jan. 1, *for* 4^h. 5^m. $57^s{\cdot}24$ *read* 4^h. 6^m. $1^s{\cdot}04$.

{xxxii} No. 328, υ^6 Eridani, Mean N.P.D. 1860, Jan. 1, *for* 121°. 3′. 8″·56 *read* 120°. 3′. 8″·56.

{xliv} No. 569, Star's Name, *for* Piazzi VII. 267 *read* Piazzi VII. 67.

{xliv} No. 591, Star's Name, *for* Piazzi VII. 755 *read* Piazzi VII. 155.

{l} No. 694, *f* Ursæ Majoris, Mean N.P.D. 1860, Jan. 1, *for* 37°. 49′. 0″·18 *read* 37°. 50′. 0″·18.

{lii} No. 733, 10 Leonis Minoris, Mean N.P.D. 1860, Jan. 1, *for* 52°. 57′. 59″·86 *read* 52°. 58′. 59″·86.

{lxii} No. 943, Star's Name, *for* Piazzi XI. 247 *read* Piazzi XI. 207.

{lxx} No. 1117, Star's Name, *for* Piazzi XIII. 221 *read* Piazzi XIII. 228.

{lxx} No. 1118, Star's Name, *for* Piazzi XIII. 228 *read* Piazzi XIII. 263.

{lxxii} No. 1127, Star's Name, *for* Piazzi XIII. 299 *read* Piazzi XIII. 306.

{lxxii} No. 1139, Star's Name, *for* Piazzi XIV. 52 *read* Piazzi XIV. 22.

{xcvi} No. 1625, Star's Name, *for* Groombridge 2894 *read* Groombridge 2984.

INTRODUCTION

TO THE

GREENWICH SEVEN-YEAR CATALOGUE

OF

2022 STARS,

DEDUCED

FROM OBSERVATIONS,

EXTENDING FROM 1854 TO 1860,

AND REDUCED TO THE EPOCH

1860.

In describing the process of formation of the star-places in this Catalogue, I shall commence with the formation of the Right Ascensions.

I. The determinations of Right Ascension of each star, which are to be combined in order to form the Right Ascension in this Catalogue, are those given in the Annual Catalogues printed in the successive Volumes of Greenwich Observations from 1854 to 1860. The Right Ascensions of each Annual Catalogue depend essentially upon the Right Ascensions assumed for the Stars whose transits are employed, in each year, to ascertain the errors of the Transit-Clock; it is necessary therefore, in the first place, to ascertain the amount of correction required for the assumed Right Ascensions of the Clock Stars.

The Right Ascensions of the Clock-Stars used in the years 1854 and 1855 were deduced immediately from the places in the 12-year Catalogue. Those used in the subsequent years, 1856 to 1860, were formed immediately from the places in the six-year or 1850 Catalogue. In order to refer all the places to the same catalogue, it will be necessary to compare the places for some of the stars most frequently used, as deduced from the two catalogues.

The following are the Mean Right Ascensions for 28 stars, for 1850 January 1, as obtained from the two catalogues :—

MEAN RIGHT ASCENSIONS 1850, JANUARY 1.

—	From 12-Year Catalogue.	From 6-Year Catalogue.	Excess of 6-Year Catalogue.
	h m s	h m s	s
α Andromedæ	0. 0. 38·59	0. 0. 38·61	+ 0·02
β Ceti	0. 36. 3·44	0. 36. 3·49	+ 0·05
α Arietis	1. 58. 43·69	1. 58. 43·68	− 0·01
α Ceti	2. 54. 26·59	2. 54. 26·60	+ 0·01
η Tauri	3. 38. 34·57	3. 38. 34·57	0·00
Aldebaran	4. 27. 19·14	4. 27. 19·12	− 0·02
Rigel	5. 7. 19·88	5. 7. 19·88	0·00
β Tauri	5. 16. 48·82	5. 16. 48·82	0·00
δ Orionis	5. 24. 20·72	5. 24. 20·72	0·00
ε Orionis	5. 28. 36·25	5. 28. 36·24	− 0·01
α Orionis	5. 47. 3·15	5. 47. 3·15	0·00
δ Geminorum	7. 11. 9·69	7. 11. 9·66	− 0·03
Pollux	7. 36. 7·82	7. 36. 7·85	+ 0·03
α Hydræ	9. 20. 12·97	9. 20. 12·97	0·00
Regulus	10. 0. 22·74	10. 0. 22·75	+ 0·01
δ Leonis	11. 6. 7·48	11. 6. 7·49	+ 0·01
β Leonis	11. 41. 24·28	11. 41. 24·34	+ 0·06
Spica	13. 17. 17·80	13. 17. 17·81	+ 0·01
η Boötis	13. 47. 32·55	13. 47. 32·57	+ 0·02
β Libræ	15. 8. 56·49	15. 8. 56·46	− 0·03
α Coronæ	15. 28. 20·29	15. 28. 20·32	+ 0·03
δ Ophiuchi	16. 6. 29·35	16. 6. 29·35	0·00
α Ophiuchi	17. 27. 58·38	17. 27. 58·40	+ 0·02
γ Aquilæ	19. 39. 7·69	19. 39. 7·67	− 0·02
α Aquilæ	19. 43. 27·81	19. 43. 27·85	+ 0·04
ζ Cygni	21. 6. 33·25	21. 6. 33·27	+ 0·02
ζ Pegasi	22. 33. 58·90	22. 33. 58·93	+ 0·03
α Pegasi	22. 57. 17·53	22. 57. 17·53	0·00
		Mean	+ 0·009

It appears therefore that the assumed Right Ascensions of the Clock Stars used in 1854 and 1855 ought to be increased by $0^s{\cdot}009$ to make them such as would have been used if the 6-year Catalogue had been employed; and the same correction $+0^s{\cdot}009$ is to be applied to all Right Ascensions obtained in 1854 and 1855 to make them such as would have been obtained if the 6-year Catalogue had been employed. But the Right Ascensions obtained in the years 1856 to 1860 are already referred to the 6-year Catalogue.

Now it appears from the discussion of the observations for the Position of the Ecliptic, in the several volumes of Greenwich Observations, that the Right Ascensions of the Clock-stars used in those volumes require the following corrections :—

	s
In 1854	+0·061
1855	−0·011
1856	−0·068
1857	−0·016
1858	−0·025
1859	+0·044
1860	−0·019

But, as is stated above, the Clock-star Right Ascensions used in 1854 and 1855 are less than those of the 6-year Catalogue by $0^s.009$. Hence we find the following corrections to the Right Ascensions of the 6-year Catalogue as deduced from the several years :—

	s
In 1854	+0·052
1855	−0·020
1856	−0·068
1857	−0·016
1858	−0·025
1859	+0·044
1860	−0·019

The mean of these is $-0^s.007$, which may be considered as the correction to the 6-year Catalogue. And, as the Right Ascensions of the 12-year Catalogue require the addition of $+0^s.009$ to bring them up to those of the 6-year Catalogue, the general correction required to the 12-year Catalogue is $+0^s.002$.

Hence, confining ourselves to the second place of decimals, the corrections to be applied to all deduced Right Ascensions are,—

	s
In 1854 and 1855	0·00
From 1856 to 1860	−0·01

The following is the actual process by which the Right Ascensions of this Catalogue were formed. It differs slightly according as the Annual Variations were or were not taken from the Nautical Almanac.

(A.) For stars of the Nautical Almanac List, whose variations include Proper Motions, and whose daily places in the Nautical Almanac are formed from the mean places by the use of those Proper Motions in combination with Geometrical Precession; the mean places in each Greenwich volume inferred from the daily apparent places, by use of the Nautical Almanac corrections, do include all corrections for Proper Motion during the fractions of the year. And consequently those mean places are fit for immediate combination, provided that, in bringing them up to the epoch 1860, Annual Variations including Proper Motions be employed. Each Annual Variation therefore was formed by the combination of Geometrical Precession computed from Peters's elements with Main's Proper Motion, or with that of the British Association Catalogue, and was multiplied by 6, 5, 4, 3, 2, 1, 0, according as the year of the annual catalogue was 1854, 1855, 1856, 1857, 1858, 1859, or 1860, and the product was added to the R.A. in the annual catalogue (corrected as has been mentioned). A series of determinations for 1860 being thus obtained, their mean was taken by combining them with weights proportional to the number of observations; and this mean is the Adopted Right Ascension 1860 of the Catalogue. The fraction of year in each annual catalogue was added to the numeral of the year; their mean was taken in the same way; and this is the Mean Year of the Catalogue.

(B.) For stars not included in the Nautical Almanac List, but whose proper motions are supposed to be known, another correction is necessary. Here, the mean places in each Greenwich volume are inferred from the daily places by use of the formula

Ee + Ff + Gg + Hh + L + l − 300^s·000, which gives the effect of Aberration and Nutation combined with Geometrical Precession for the fraction of the year, but without any effect of Proper Motion. Consequently, the mean places in each Greenwich volume require the application, with changed sign, of the Proper Motion corresponding to the fraction of the year; and then they are fit to be combined in the same manner as the places of the Nautical Almanac Stars, requiring, in the same manner, an Annual Variation composed of Geometrical Precession and Proper Motion.

The Geometrical Precession in R.A. which has been used here is computed by the formula 3^s·072 + [number, log. = 0·12614] × sin R.A. × cotan N.P.D. The Proper Motions are taken from Mr. Main's papers, Memoirs of the Royal Astronomical Society, Volumes XIX. and XXVIII. Failing that authority, they are taken from the Catalogue of the British Association.

The small correction here described, peculiar to stars which have Proper Motion but are not included in the Nautical Almanac List, was neglected in the Twelve-year and Six-year Catalogues.

II. Before entering upon the combination of the annual determinations of the N.P.D. of each star, it appeared desirable to consider the corrections applied in different years, for the discordance between the results of direct observations and observations by reflexion which is usually indicated by the symbol R − D. And, as anterior to all other investigations, I will express my deliberate opinion that no part of the discordance is due to the circular instrument itself. The construction of the Mural Circle made flexure of the telescope almost impossible; and the care given to the graduation, and the number of reading-microscopes, make it exceedingly improbable that systematic discordances could arise from errors of division. In the Transit-Circle, the errors of division and the horizontal flexure of the telescope have been severely examined, and the corresponding corrections are applied to every observation. The effect of convergence of verticals upon the position of the surface of the quicksilver has usually been neglected; but, considered as due solely to the general form of the earth, it could never produce the effect 0″·1 on the reflexion-observations.

The course which has been uniformly followed in the annual reductions is the following:—A nominal assumed colatitude has been added to the star's observed zenith-distance (which, for circumpolar stars, has a negative sign), and thus its N.P.D. has been formed. The N.P.D. given by reflexion-observations has been compared with the N.P.D. given by direct observations, and thus R − D is formed. Half this quantity (or rather half the quantity found from a formula which on the whole represents R − D) has been added to the D result and subtracted from the R result, and the adopted N.P.D. are thus obtained: each is evidently the same (accidental errors excepted) as $\frac{R + D}{2}$. The adopted N.P.D. above pole and below pole are compared, and a correction to the N.P.D. depending on polar error, or a correction to the nominal assumed colatitude, is found.

As the D and R observations are, by the nature of the process, made to give the same result (accidental errors excepted) we may consider the D observations alone. Let c be the correction $\frac{R-D}{2}$ which has been applied to the D observations of close circumpolar stars. Then the process stated above may be described thus. The N.P.D. from D observation = Observed Z. D. (as taken purely from the Circle) + Nominal assumed colatitude + c = Observed Z.D. + (Nom. ass. colat. + c). It is seen here that, if we consider the Circle D observations to be entirely without fault, we are in fact reducing them with a Real assumed colatitude = Nom. ass. colat. + c; and when we come to discuss the results of circumpolar stars above pole and below pole for correction of colatitude, we shall in fact find the correction which is applicable, not to the Nominal assumed colatitude, but to the Real assumed colatitude = Nominal assumed colatitude + c; always supposing that the Circle D observations are free from defect.

This being premised, I shall collect from the volumes of Observations the different numbers here concerned. I shall divide them into three groups, the first ending with 1841 and the last beginning with 1851, for reasons which will shortly appear; and I shall omit the years 1849 and 1850, because the Mural Circle was then mounted on a temporary support in a wooden shed. The numbers in the following table suppose that the Circle D observations are free from defect.

Year.	Nominal assumed Colatitude.	Correction c for Circumpolar Stars.	Real assumed Colatitude.	Correction found from Observations of Circum-polar Stars.	Apparent resulting Colatitude.
	° ′ ″	″	° ′ ″	″	° ′ ″
1836	38. 31. 21·00	− 0·44	38. 31. 20·56	+ 0·93	38. 31. 21·49
1837	21·00	− 0·40	20·60	+ 0·77	21·37
1838	21·93	− 0·28	21·65	− 0·27	21·38
1839	21·00	− 0·05	20·95	+ 0·67	21·62
1840	21·00	0·00	21·00	+ 0·80	21·80
1841	21·00	0·00	21·00	+ 0·78	21·78
1842	21·00	0·00	21·00	+ 0·95	21·95
1843	21·00	0·00	21·00	+ 0·60	21·60
1844	21·80	0·00	21·80	+ 0·12	21·92
1845	21·80	0·00	21·80	− 0·07	21·73
1846	21·80	0·00	21·80	− 0·13	21·67
1847	21·80	0·00	21·80	+ 0·19	21·99
1848	21·80	0·00	21·80	+ 0·17	21·97
1851	21·80	+ 0·25	22·05	+ 0·15	22·20
1852	21·80	+ 0·25	22·05	+ 0·14	22·19
1853	21·80	+ 0·12	21·92	+ 0·26	22·18
1854	21·80	+ 0·18	21·98	+ 0·30	22·28
1855	22·00	+ 0·15	22·15	− 0·09	22·06
1856	22·00	+ 0·22	22·22	− 0·17	22·05
1857	22·00	+ 0·22	22·22	− 0·20	22·02
1858	22·00	+ 0·22	22·22	− 0·24	21·98
1859	22·00	+ 0·52	22·52	− 0·44	22·08
1860	22·00	+ 0·21	22·21	0·00	22·21

It must be remarked that in the years 1836–1839 two Mural Circles were employed, and care has been used in combining their results. It is also to be observed that the observations 1851–1860 were made in a locality south by 0″·05 of that in which the former observations were made, and therefore 0″·05 must be subtracted from the last determination of colatitude to make it comparable with the others.

Now, first, taking the mean for each group, we have the following results, on the supposition that the Circle D observations require no correction :—

Period.	True resulting Colatitude.
	° ′ ″
1836–1841	38. 31. 21·57
1842–1848	21·83
1851–1860	22·08

The discordance of these is greater than can be well tolerated; at the same time, the order of progression of the results cannot fail to attract attention.

Secondly, let us examine the effect of applying to the Circle D observations the correction c or $\frac{R-D}{2}$. The means of the values of c for close circumpolar stars are:—

Period.	Value of c.
1836–1841	− 0·20
1842–1848	0·00
1851–1860	+ 0·23

A + value here denotes that the N.P.D. resulting from the observations will be algebraically increased; and, therefore, that the numerical magnitude of N.P.D. resulting from observations above pole will be increased, and the numerical magnitude of N.P.D. resulting from observations below pole will be diminished; and, therefore, that the result of the application of this quantity to the Circle D observations will be that the assumed colatitude ought to be diminished by that amount. Therefore, changing the sign of c in each case, we find the following values of colatitude, on the supposition that Circle D observations are to be corrected by the application of $\frac{R-D}{2}$: —

Period.	Formation of Colatitude.		Deduced Colatitude.
	° ′ ″	″	° ′ ″
1836–1841	38. 31. 21·57	+ 0·20	38. 31. 21·77
1842–1848	21·83	.....	21·83
1851–1860	22·08	− 0·23	21·85

The accord now is sufficiently close. It would have been a little more perfect if c had been increased by $\frac{1}{5}$ part, that is, if we had applied $\frac{3}{5}$ (R − D); but the difference is not worth considering.

Thirdly, let us examine the effect of supposing that the R observations require no correction. This will be done by applying to the D observations the correction R—D, or 2 $\frac{R-D}{2}$, or 2 c. Thus, we find the following results:—

Period.	Formation of Colatitude.		Deduced Colatitude.
	° ′ ″	″	° ′ ″
1836–1841.....	38. 31. 21·57	+ 0·40	.....38. 31. 21·97
1842–1848.....	21·83	.....	21·83
1851–1860.....	22·08	— 0·46	..... 21·62

The agreement of these is not sufficiently close; and the discordance is progressive.

The change in the position of the reflecting surface, arising from the convergence of verticals, is sensibly the same in all the cases compared, and does not affect the comparison; but it causes the colatitude to appear too small; the effect, however, on the mean will never exceed 0″·04.

It appears from the examination of the results of these three principles of reduction that the correction $\frac{1}{2}$ (R — D) or $\frac{3}{5}$ (R — D) is a real correction, founded upon some physical cause. And a suggestion may be offered as to the nature of the physical cause.

From 1836 to the later months of 1842, the entire opening of the shutters of the Circle Room was about 2 feet; but Mr. Pond had found this entire opening to be inconvenient for reflexion-observations, and he had fitted the shutters with subsidiary shutters, leaving an opening of about 6 in. or less. The consequence of this was, that the full opening was never practically used; and it may be understood that all the observations in the first period were made with an opening of 6 inches.

Near the end of 1842, I removed the small shutters, and so arranged the large shutters that their whole opening was necessarily used. Therefore, in the second period, the opening was about 2 feet.

In the third period, the observations were made solely with the Transit-Circle, and the room for the Transit-Circle is so constructed that the opening of the shutters is necessarily 3 feet, and that a greater length of shutter is opened at once. The dimensions of the room were also altered, and the collimation piers were introduced.

Therefore, we have these corresponding quantities,—

Shutter-opening.	Value of c for Circumpolar Stars.
ft. in.	″
0 6.....	— 0·20
2 0.....	0·00
3 0.....	+ 0·24

The comparison of these seems to render it extremely probable that the origin of the discordance expressed by R — D lies in some conformation of the warmer and cooler strata of the atmosphere in the immediate neighbourhood of the Circle.

The whole investigation appears to indicate the great advantage of maintaining reflexion-observations of stars.

As regards the formation of the present Catalogue, it is evident that the numbers of the Annual Catalogues, having already received the correction $\frac{R-D}{2}$ to D observations or $-\frac{R-D}{2}$ to R observations, are to be combined without further modification.

For explanation of the formation of the Adopted North Polar Distance, 1860, of the Catalogue, the description of the process for Right Ascension (above), with the division into classes (A) and (B), applies throughout, with no difference, except in the formula for Geometrical Precession. Here the formula is, $-20''{\cdot}056 \times \cos$ R.A.

I now proceed to explain the separate columns of the printed Catalogue. The formulæ by which the various numbers have been prepared will be described under these explanations.

The "No." is the ordinal number of this Catalogue, the stars being arranged in the order of R. A. 1860.

The "Magnitude" is taken from the *Uranometria Nova* of Argelander, in preference to all other authorities. The magnitudes derived thence are distinguished by asterisks. When the magnitudes are not to be found in that work, they are taken in the order of preference from the British Association Catalogue of 8377 stars; Lalande's Catalogue, published by the British Association; Lalande's Catalogue by Fedorenko; Weisse's *Catalogus Stellarum ex Zonis Regiomontanis.*

If these authorities fail, the magnitudes are taken from other works, or from the Greenwich Observations. The works really used are specified in the notes on the left-hand page.

The "Star's Name" is taken from one of the following authorities, the order of preference being the order of mention of the authority, below:—

1. Flamsteed's constellation-No. and constellation, with Bayer's letter; taken from Baily's edition of Flamsteed. When the description thus found differs from that in the British Association Catalogue, the difference is mentioned in the notes.
2. The No. in Bessel's *Fundamenta*, &c., deduced from Bradley's observations.
3. The hour and No. in Piazzi's Catalogue, edition 1814.
4. The No. in Groombridge's Catalogue.
5. The No. in Baily's edition of Flamsteed's Catalogue.
6. The No. in Santini's Catalogue of 1,677 stars (Mem. R. Ast. Soc. vol. xii.).
7. The hour and No. in Weisse's Catalogue of the stars in Bessel's Zones.
8. The No. in Lalande's Catalogue published by the British Association, or in that edited by Fedorenko.
9. The No. in Lacaille's Catalogue of southern stars published by the British Association.
10. The No. in Rümker's Catalogue of 12,000 stars.
11. The No. in Oeltzen's Catalogue of Argelander's Zone Observations.
12. The No. in the Radcliffe Catalogue.
13. The No. in the Red Hill Catalogue.
14. The No. in the Greenwich Catalogues; or in the British Association Catalogue; or in the First Cambridge Catalogue.

The formation of the "Mean Right Ascension 1860, Jan. 1," has been fully described, as also that of the "Mean Year and Fraction of Year." The computations were made singly, but carefully examined.

The "Number of Observations" gives the aggregate number of all the observations in the different years, which are combined to form the Mean Right Ascension last mentioned.

The "Annual Precession in R.A." is computed by the formula $3^s{\cdot}0720 +$ [number log. $= 0{\cdot}12614$] $\times$ log. sin R. A. $\times$ log. cotan N.P.D. The R. A. and N. P. D. are taken for 1860. The calculations were made singly, but were carefully examined; and log. (precession $+ 25$) was compared with the corresponding quantity found in previous years.

The "Secular Variation of Precession in R.A." consists of two parts; one, which is due to the change in the star's place, and which was properly exhibited in the Twelve-year and Six-year Catalogues; the other, which arises from the change in the numerical coefficients, and which had been neglected as insignificant, but whose importance was indicated to me by Don F. de P. Marqua.

The formula for the first part, as exhibited in the introductions to the 12-year and 6-year Catalogues, is $1500\, n^2 \sin 1'' \times a\, b + 1500\, n \sin 1'' \times \mathrm{P}\, d$, where $a = \frac{1}{15} \cdot \cos$ R. A. cosec N.P.D., $b = \frac{1}{15} \sin$ R. A. cosec N. P. D., $d = \frac{1}{15} \cos$ R. A. cotan N.P.D., $n = 20{\cdot}0556$, P = precession in R. A. in seconds of time, found above. The numerical expression is [number, log. $= 0{\cdot}4661$] $\times\, a\, b +$ [number, log. $= 9{\cdot}1639$] $\times$ P d. The unit of the result is one second of time.

For the second part, assuming the formula for precession in R.A. to be

$$\frac{1}{15}\left\{ 46^s{\cdot}0795 + 0^s{\cdot}0002849\, t \right\}$$
$$+\frac{1}{15}\left\{ 20^s{\cdot}0556 - 0^s{\cdot}0000863\, t \right\} \times \sin \text{R.A.} \times \cot \text{N.P.D.}$$

where t is the number of years from 1860; the second part of the secular variation of precession in R.A. is

$$\frac{0{\cdot}02849}{15} - \frac{0{\cdot}00863}{15} \times \left(\frac{\mathrm{P}}{1{\cdot}337} - \frac{3{\cdot}072}{1{\cdot}337} \right),$$
$$= -\,[\text{number log.} = 6{\cdot}6338] \times \mathrm{P} + 0{\cdot}00322.$$

in which also the unit is one second of time.

As the logarithms of a, b, c or P, and d, are computed in the preparation of the Constants for Reduction to be mentioned shortly, the calculation of the secular variations is sufficiently easy. The computations were made singly, and examined.

The "Annual Proper Motion in R.A." has been taken from Mr. Main's papers in the Memoirs of the Royal Astronomical Society, Volumes XIX. and XXVIII., in preference to other authority. When not given by Mr. Main, they have been taken from the British Association Catalogue.

The quantities "log. e, log. f, log. g, log. h, l," are computed by the formulæ,—

$$e = 1{\cdot}2 + \frac{1}{15} \cos \text{R.A.} \operatorname{cosec} \text{N.P.D.};$$

$$f = 1{\cdot}2 + \frac{1}{15} \sin \text{R.A.} \operatorname{cosec} \text{N.P.D.};$$

$$g = 25 + 3{\cdot}0720 + 1{\cdot}3370 \sin \text{R.A.} \operatorname{cotan} \text{N.P.D.};$$

$$h = 1{\cdot}2 + \frac{1}{15} \cos \text{R.A.} \operatorname{cotan} \text{N.P.D.};$$

$$l = 210{\cdot}00 - 25 \times e - 25 \times f - 1{\cdot}2 \times g - 25 \times h;$$

and, when combined with the numbers E, F, G, H, L, now published in the Nautical Almanac, by the formula,

$$E e + F f + G g + H h + L + l - 300{\cdot}00$$

give the correction from Mean R.A. to Apparent R.A. in seconds of time. The numbers E, F, G, H, L are in all cases positive. The numbers e, f, g, h, l are positive, except for a very few stars within 3° 10′ of the pole; for these instances the constants are not printed in the columns, but are inserted in the notes below. The numbers were computed singly, but carefully examined and compared with previous calculations (as numbers, from elements sensibly the same, but calculated with star-places corresponding to other years, had in all cases been computed before).

The process for forming the "Mean North Polar Distance 1860, Jan. 1," has been explained. The numbers were computed singly, and carefully examined.

The "Mean Year and Fraction of Year" has been explained.

The "Number of Observations" is the aggregate of all the numbers of observations combined to form the Mean N.P.D.

The "Annual Precession in N.P.D." is formed from the expression $-20''{\cdot}056 \times \cos$ R.A.

The "Secular Variation of Precession in N.P.D.," like that in R.A., consists of two parts. One arises from the change in the star's place; its value, as investigated in the introductions to the 12-year and 6-year catalogues, is

$$1500 \,.\, n \,.\, \sin 1'' \times P d';$$

where $n = 20{\cdot}056$, $P =$ precession in R.A. expressed in seconds of arc, and d' (computed in the formation of h′ to be mentioned shortly) $=$ sin R.A.

The other part arises from the secular variation of the coefficient. The entire formula for precession being

$$(-20''{\cdot}0556 + 0''{\cdot}0000863 \,.\, t) \,.\, \cos \text{R.A.},$$

where t is the number of years after 1800; the secular variation from change of the coefficient is

$$+ 0''{\cdot}00863 \times \cos \text{R.A.},$$
$$= -\frac{0{\cdot}00863}{20{\cdot}056} c';$$

(where it is to be remarked that c' is computed in the formation of g′, to be mentioned shortly); and the whole expression for Secular Variation of Precession in N.P.D. is, in seconds of arc,

$$1500 \times 20{\cdot}056 \times \sin 1'' \times \mathrm{P}\,d' - \frac{0{\cdot}00863}{20{\cdot}056} \times c',$$
$$= [\text{number, log.} = 9{\cdot}1639] \times \mathrm{P}\,d' - [\text{number, log.} = 6{\cdot}6338] \times c'.$$

These numbers have been calculated and examined.

The "log. e′, log. f′, log. g′, log. h′, l′," are computed by the formulæ,

$$e = 1{\cdot}2 - \tan \text{obliquity} \,.\, \sin \text{N.P.D.} + \sin \text{R.A.} \,.\, \cos \text{N.P.D.};$$
$$f' = 1{\cdot}2 + \cos \text{R.A.} \,.\, \cos \text{N.P.D.};$$
$$g' = 25 - 20{\cdot}056 \,.\, \cos \text{R.A.};$$
$$h' = 1{\cdot}2 + \sin \text{R.A.};$$
$$l' = 210{\cdot}00 - 25 \times e' - 25 \times f' - 1{\cdot}2 \times g' - 25 \times h'.$$

By use of these numbers in the formula $\mathrm{E}\,e' + \mathrm{F}\,f' + \mathrm{G}\,g' + \mathrm{H}\,h' + \mathrm{L} + l' - 300{\cdot}00$, the correction from Mean N.P.D. to Apparent N.P.D. is found in seconds of arc. The numbers e′, f′, g′, h′, l′, are in all cases positive. The calculations have been made singly, but have been carefully examined, and have been compared with previous calculations.

The remaining columns contain references to other Catalogues of Stars. In deciding among the great number of excellent catalogues now in existence, upon those to be mentioned here, I have been guided principally by the consideration that the main purpose in the collation of the different catalogues will probably be the examination into Proper Motions; and I have therefore taken none but original catalogues not later than 1830. The titles and places of publication of those adopted are as follows:—

LACAILLE.—A Catalogue of 9,766 Stars in the Southern Hemisphere, for the beginning of the year 1850, from Observations made at the Cape of Good Hope, in the years 1751 and 1752. London, 1847.

BESSEL'S BRADLEY.—Fundamenta Astronomiæ pro anno MDCCLV., deducta ex Observationibus viri incomparabilis James Bradley, in Specula Astronomica Grenovicensi, per annos 1750–1762 institutis. Regiomonti, 1818.

FEDORENKO'S LALANDE.—Positions Moyennes pour l'Epoque 1790·0 des Étoiles Circumpolaires dont les Observations ont été publiées par Jérôme Lalande, dans les Mémoires de l'Académie de Paris de 1789 et 1790. St. Petersburg, 1854.

BRITISH ASSOCIATION LALANDE.—A Catalogue of those Stars in the Histoire Céleste Français of Jérôme De Lalande, for which Tables of Reduction to the Epoch 1800 have been published by Professor Schumacher. London, 1847.

GROOMBRIDGE.—A Catalogue of Circumpolar Stars, deduced from the Observations of Stephen Groombridge, Esq., F.R.S., S.R.A., Nap. Fellow of the Royal Astronomical Society of London, &c., reduced to January 1, 1810. Edited by George Biddell Airy, Esq., A.M., Astronomer Royal. London, 1838.

PIAZZI.—Præcipuarum Stellarum inerrantium Positiones Mediæ ineunte Sæculo XIX., ex Observationibus habitis in Specula Panormitana. Ab anno 1792 ad annum 1813. Panormi, 1814.

SCHWERD.—Beobachtungen von Circumpolarsternen in Mittleren Positionen, 1828·0. Von Wilhelm Oeltzen, Assistenten der Kaiserlich-Königlichen Sternwarte zu Wien. Aus dem X. Bde der denkschriften der Mathem.-Naterw-Classe der K. Akademie der Wissenchaften besonders abgedruckt. Wien, 1856.

ARGELANDER.—DLX. Stellarum Fixarum Positiones Mediæ ineunte anno 1830. Helsingforsiæ, 1835.

POND.—A Catalogue of 1,112 Stars, reduced from Observations made at the Royal Observatory at Greenwich, from the Years 1816 to 1833. London, 1833.

AIRY.—A Catalogue of 726 Stars, deduced from the Observations made at the Cambridge Observatory, from 1828 to 1835; reduced to January 1, 1830: called the FIRST CAMBRIDGE CATALOGUE. Memoirs of the Royal Astronomical Society of London, vol. XI., page 21.

JOHNSON.—A Catalogue of 606 Principal Fixed Stars in the Southern Hemisphere: deduced from Observations made at the Observatory, St. Helena, from November 1829 to April 1833. London, 1835.

FALLOWS.—Results of the Observations made by the Rev. Fearon Fallows, at the Cape of Good Hope, in the years 1829, 1830, 1831. Reduced under the superintendence of G. B. Airy, Esq., Astronomer Royal. Memoirs of the Royal Astronomical Society of London, vol. XIX., page 1.

STRUVE.—Stellarum Fixarum imprimis duplicium et multiplicum Positiones Mediæ pro Epocha 1830·0, deductæ ex Observationibus Meridianis annis 1822 ad 1843 in Specula Dorpatensi institutis. Petropoli, 1852.

WEISSE'S BESSEL.—Positiones Mediæ Stellarum Fixarum in Zonis Regiomontanis a Besselio inter − 15° et + 15° declinationis observatarum, ad annum 1825 reductæ. Petropoli, 1846.

GREENWICH

SEVEN-YEAR CATALOGUE OF STARS,

FOR

1860;

FROM OBSERVATIONS

MADE AT THE

ROYAL OBSERVATORY, GREENWICH,

1854 to 1860.

No.	Magnitude.	Star's Name.	Mean Right Ascension, 1860, Jan. 1, from Observations, 1854 to 1860.	Mean Year and Fraction of Year.	Number of Observations.	Annual Precession in R.A. for 1860, from Peters' Elements.	Secular Variation of Precession in R.A.	Annual Proper Motion in R.A. from Main or B.A.C.	Logarithms of e	f	g	h	Value of l	Mean North Polar Distance, 1860, Jan. 1, from Observations, 1854 to 1860.	Mean Year and Fraction of Year.	Number of Observations.
			h m s			s	s	s					s	° ′ ″		
1	9	W. B. XXIII. 1242...	0. 0. 38·81	1855·0	2	+ 3·071	−0·0044	..	0·10316	0·07925	1·44826	0·07406	84·959	101. 54. 31·10	1855·0	2
2	6	W. B. XXIII. 1249...	0. 1. 8·31	1854·9	2	3·071	−0·0031	..	0·10299	0·07931	1·44826	0·07507	84·898	99. 36. 7·71	1854·9	3
3	2*	21 Andromedæ .... α	0. 1. 9·44	1857·8	59	3·076	+0·0181	+ 0·009	0·10576	0·07932	1·44833	0·09200	83·507	61. 40. 57·79	1858·1	53
4	2·3*	11 Cassiopeiæ .... β	0. 1. 43·61	1858·3	6	3·088	+0·0510	+ 0·063	0·12293	0·07953	1·44853	0·11670	80·383	31. 37. 21·56	1858·3	6
5	8	Groombridge 4242....	0. 1. 44·88	1859·9	2	3·084	+0·0367	..	0·11454	0·07946	1·44845	0·10615	81·814	40. 55. 16·80	1859·9	2
6	5·6*	22 Andromedæ	0. 3. 3·38	1859·9	3	+ 3·090	+0·0326	+ 0·007	0·11220	0·07964	1·44855	0·10290	82·206	44. 42. 25·82	1859·9	3
7	5·4*	6 Ceti................	0. 4. 8·09	1860·8	4	3·065	−0·0065	− 0·004	0·10361	0·07964	1·44817	0·07210	85·039	106. 14. 12·90	1860·8	4
8	8	Groombridge 18......	0. 5. 42·66	1859·8	2	3·111	+0·0376	..	0·11458	0·08010	1·44887	0·10620	81·729	40. 51. 9·85	1859·8	2
9	8	Groombridge 19......	0. 6. 0·52	1859·9	4	3·112	+0·0374	..	0·11444	0·08014	1·44889	0·10603	81·750	41. 3. 19·06	1859·9	4
10	3·2*	88 Pegasi............ γ	0. 6. 1·79	1857·5	67	3·081	+0·0099	0·000	0·10340	0·07984	1·44841	0·08533	84·109	75. 35. 42·37	1857·7	47
11	9	W.B. 0. 102.........	0. 6. 51·80	1854·9	3	+ 3·063	−0·0041	..	0·10316	0·07992	1·44814	0·07398	84·927	102. 4. 57·84	1854·9	3
12	6*	35 Piscium, 1st Star.....	0. 7. 46·27	1859·9	7	3·078	+0·0066	+ 0·004	0·10288	0·08001	1·44837	0·08257	84·331	81. 57. 24·00	1859·9	7
13	7·8	35 Piscium, 2nd Star	0. 7. 46·67	1860·2	3	3·078	+0·0066	+ 0·004	0·10287	0·08001	1·44837	0·08257	84·332	81. 57. 33·90	1860·2	3
14	6	Bradley 6...........	0. 8. 20·90	1860·7	3	3·270	+0·1392	..	0·16986	0·08285	1·45133	0·16751	72·089	13. 49. 39·26	1860·7	4
15	10	......	0. 8. 32·01	1854·8	2	3·062	−0·0038	..	0·10314	0·08010	1·44811	0·07411	84·908	101. 48. 39·27	1854·8	3
16	6·7	26 Andromedæ	0. 11. 20·14	1855·8	5	+ 3·134	+0·0315	− 0·001	0·11095	0·08081	1·44923	0·10110	82·296	46. 59. 11·83	1855·9	2
17	8·9	Radcliffe 56	0. 11. 31·42	1860·3	1	5·954	+3·6934	..	† ..	..	..	..	..	1. 19. 54·34	1860·3	1
18	3·4*	8 Ceti .... ι	0. 12. 17·61	1860·0	12	3·060	−0·0024	− 0·006	0·10295	0·08049	1·44809	0·07508	84·831	99. 36. 1·24	1860·0	10
19	6·5*	41 Piscium........... d	0. 13. 23·71	1859·3	8	3·082	+0·0066	− 0·002	0·10281	0·08060	1·44843	0·08230	84·311	82. 35. 15·99	1859·3	8
20	5	Sculptoris .... ι	0. 14. 28·74	1859·9	3	3·024	−0·0138	+ 0·001	0·10606	0·08093	1·44753	0·06519	85·286	119. 45. 23·15	1859·9	3
21	6*	12 Cassiopeiæ	0. 17. 5·72	1856·7	7	+ 3·252	+0·0630	− 0·003	0·12624	0·08288	1·45105	0·12066	79·401	28. 56. 42·75	1858·2	40
22	6	44 Piscium	0. 18. 13·60	1856·7	2	3·074	+0·0035	− 0·002	0·10259	0·08110	1·44831	0·07967	84·483	88. 50. 9·28	1856·7	2
23	6	Bradley 24	0. 18. 14·72	1860·7	2	3·634	+0·2174	+ 0·014	0·19239	0·08938	1·45688	0·19059	67·219	10. 43. 24·97	1860·8	4
24	6	45 Piscium	0. 18. 28·98	1858·8	9	3·085	+0·0066	− 0·001	0·10276	0·08113	1·44848	0·08209	84·286	83. 4. 59·66	1858·8	9
25	6	10 Ceti	0. 19. 26·66	1858·8	6	3·070	+0·0026	+ 0·005	0·10258	0·08122	1·44825	0·07884	84·538	90. 49. 30·52	1858·8	6
26	7	Groombridge 64......	0. 19. 39·61	1859·7	3	+ 3·215	+0·0405	..	0·11450	0·08233	1·45048	0·10618	81·458	40. 47. 23·19	1859·7	3
27	..	......	0. 20. 2·58	1858·6	3	3·070	+0·0026	..	0·10258	0·08128	1·44825	0·07884	84·534	90. 47. 58·65	1858·6	3
28	5	Piazzi 0. 79	0. 20. 58·78	1860·4	3	2·990	−0·0157	− 0·002	0·10716	0·08182	1·44701	0·06281	85·343	123. 46. 49·92	1860·4	3
29	8	W.B. 0. 366	0. 22. 29·19	1860·8	1	3·064	+0·0013	..	0·10260	0·08155	1·44814	0·07766	84·603	93. 36. 49·47	1860·8	1
30	7·8	11 Ceti................	0. 22. 44·35	1860·8	1	3·068	+0·0022	+ 0·016	0·10256	0·08157	1·44821	0·07838	84·550	91. 53. 20·95	1860·8	1
31	6	12 Ceti................	0. 22. 53·64	1857·5	42	+ 3·061	+0·0008	− 0·002	0·10263	0·08159	1·44810	0·07719	84·633	94. 43. 52·99	1857·0	28
32	5*	14 Cassiopeiæ .... λ	0. 24. 4·09	1859·9	3	3·263	+0·0487	+ 0·006	0·11797	0·08344	1·45122	0·11073	80·725	36. 15. 5·11	1859·9	3
33	9	W.B. 0. 391	0. 24. 6·38	1860·8	1	3·063	+0·0014	..	0·10258	0·08172	1·44813	0·07765	84·594	93. 40. 8·78	1860·8	1
34	5·6	16 Cassiopeiæ	0. 26. 17·59	1860·3	4	3·415	+0·0847	+ 0·010	0·13441	0·08592	1·45355	0·12988	77·650	24. 1. 20·36	1859·7	17
35	7	Piazzi 0. 110	0. 26. 55·55	1860·8	5	3·098	+0·0085	+ 0·009	0·10282	0·08204	1·44868	0·08318	84·128	80. 28. 3·94	1860·8	5
36	7·8	Piazzi 0. 114	0. 27. 42·78	1854·9	4	+ 3·289	+0·0090	..	0·11764	0·08404	1·45162	0·11032	80·707	36. 34. 8·41	1854·9	4
37	9	W. B. 0. 467.........	0. 27. 46·42	1860·8	4	3·066	+0·0024	..	0·10251	0·08209	1·44818	0·07831	84·523	92. 4. 53·97	1860·8	4
38	6·5*	13 Ceti................	0. 28. 2·56	1855·1	4	3·060	+0·0012	+ 0·017	0·10256	0·08212	1·44808	0·07735	84·592	94. 21. 51·39	1855·1	4
39	5·6	Bradley 49	0. 28. 21·98	1854·8	5	3·294	+0·0491	+ 0·003	0·11760	0·08415	1·45170	0·11028	80·700	36. 36. 12·69	1854·9	3
40	6	W. B. 0. 484	0. 28. 39·92	1857·7	5	3·109	+0·0102	..	0·10303	0·08226	1·44884	0·08443	83·999	77. 33. 27·83	1857·7	5

5, 8, 9, 36. The magnitude is taken from Groombridge.
14. Bradley has no R.A. The star is identical with Schwerd No. 5.
17. The magnitude is taken from Radcliffe.
20. This star is the same as Lacaille No. 54.
23. The same as Schwerd 10.
28. The same as Lacaille 94.

† For No. 17, log. e = 0·60912, log. f = 0·12830, log. g = 1·49071, log. h = 0·60908, l = − 64·005.

No.	Annual Precession in N.P.D. for 1860, from Peters' Elements.	Secular Variation of Precession in N.P.D.	Annual Proper Motion in N.P.D. from Main or B.A.C.	Logarithms of e′	f′	g′	h′	Value of l′	No. in Bessel's Bradley. 1755.	No. in Lalande Fedorenko (F.) 1790, or British Association (B.A.) 1800.	Hour and No. in Piazzi. 1800.	No. in Groombridge. 1810.	Hour and No. in Weisse's Bessel. 1825.	No. in Argelander. 1830.	No. in Pond's 1112. 1830.	No. in First Cambridge Catalogue. 1830.	No. in Johnson's (St. Helena). 1830.	No. in Fallows. 1830.	No. in Struve. 1830.
	″	″	″					″			XXIII.		XXIII.						
1	−20·06	+0·010	..	9·88919	0·14814	0·69410	0·08018	119·465	..	...	..	..	1242	..	..	..	..	..	..
2	20·06	0·011	..	9·88722	0·13569	0·69410	0·08096	120·492	..	47318 (B.A.)	..	..	1249	..	..	..	..	..	..
3	20·06	0·011	+ 0·15	9·91403	9·86073	0·69414	0·08099	135·290	3215	47319 (B.A.)	281	..	..	560	1112	726	..	..	2874
4	20·06	0·012	+ 0·19	9·99074	9·54215	0·69414	0·08188	140·695	3216	4666 (F.)	283	4240	..	1	1	1	..	..	2
5	20·06	0·012	..	9·96450	9·64775	0·69414	0·08188	139·732	..	47343 (B.A.)	..	4242	..	..	..	..	..	..	..
6	−20·05	+0·015	0·00	9·95631	9·68954	0·69426	0·08397	138·888	3220	{ 4672 (F.) 47387 (B.A.) }	288	3	..	..	2	..	..	..	..
7	20·05	0·017	+ 0·22	9·89120	0·17012	0·69440	0·08566	117·164	3222	37 (B.A.)	0h 5	..	..	2	..	..	..	..	..
8	20·05	0·020	..	9·97086	9·64718	0·69463	0·08812	138·963	..	94 (B.A.)	..	18	..	..	..	..	..	..	..
9	20·05	0·021	..	9·97067	9·64945	0·69471	0·08856	138·883	..	105 (B.A.)	..	19	..	..	..	..	..	..	..
10	20·05	0·021	+ 0·02	9·89553	9·97837	0·69471	0·08861	129·961	1	107 (B.A.)	9	..	0h 92	3	3	2	..	..	6
11	−20·05	+0·022	..	9·88615	0·14899	0·69487	0·08986	118·843	..	...	..	..	102	..	..	..	..	..	..
12	20·04	0·024	+ 0·05	9·88930	0·02532	0·69511	0·09127	127·330	5	182 (B.A.)	16	..	119	..	..	..	..	..	10
13	20·04	0·024	+ 0·05	9·88930	0·02544	0·69511	0·09130	127·321	..	185 (B.A.)	17	..	120	..	..	..	..	..	..
14	20·04	0·026	+ 0·05	0·05369	9·36105	0·69527	0·09220	139·107	6	197 (B.A.)	..	29	..	..	..	..	..	..	11
15	20·04	0·025	..	9·88519	0·14756	0·69531	0·09244	118·811	..	...	..	..	..	..	..	..	..	..	..
16	−20·03	+0·031	0·00	9·96209	9·71485	0·69624	0·09672	136·926	13	293 (B.A.)	37	40	..	..	..	..	..	..	..
17	20·03	0·052	..	0·09342	9·30437	0·69632	0·09694	136·745	..	...	..	..	..	..	..	..	..	..	..
18	20·03	0·033	+ 0·06	9·88264	0·13562	0·69664	0·09817	119·448	14	322 (B.A.)	42	..	..	..	5	..	3	3	..
19	20·02	0·035	− 0·01	9·89053	0·02985	0·69709	0·09981	126·358	16	366 (B.A.)	45	..	223	..	6	..	..	..	..
20	20·02	0·036	+ 0·10	9·89873	0·22923	0·69761	0·10144	110·260	..	402 (B.A.)	50	..	..	..	..	..	..	..	..
21	−20·00	+0·044	0·00	0·02333	9·51508	0·69897	0·10533	137·573	21	{ 52 (F.) 467 (B.A.) }	58	60	..	..	..	..	..	..	..
22	19·99	0·044	+ 0·02	9·88525	0·07177	0·69965	0·10703	123·317	25	512 (B.A.)	64	..	298	..	..	5	..	..	..
23	19·99	0·051	+ 0·03	0·07828	9·34352	0·69965	0·10706	136·550	24	57 (F.)	..	..	..	..	..	..	..	..	..
24	19·99	0·045	+ 0·07	9·89148	0·03341	0·69981	0·10740	125·502	26	523 (B.A.)	65	..	302	..	..	..	..	..	..
25	19·98	0·047	+ 0·03	9·88360	0·08439	0·70037	0·10880	122·379	29	555 (B.A.)	70	..	..	..	..	6	..	..	..
26	−19·98	+0·049	..	9·99189	9·64895	0·70053	0·10914	136·157	..	558 (B.A.)	..	64	..	..	..	..	..	..	25
27	19·98	0·048	..	9·88360	0·08419	0·70077	0·10968	122·321	..	...	..	..	..	..	..	..	..	..	..
28	19·97	0·049	− 0·04	9·89680	0·24397	0·70144	0·11107	108·123	..	...	79	..	..	..	.	..	..	..	..
29	19·96	0·052	..	9·88121	0·10133	0·70251	0·11326	120·914	..	...	..	..	366	..	..	..	..	..	..
30	19·96	0·053	+ 0·02	9·88252	0·09086	0·70267	0·11362	121·580	36	664 (B.A.)	87	..	369	..	..	..	..	..	..
31	−19·96	+0·053	+ 0·01	9·88041	0·10792	0·70279	0·11386	120·418	38	669 (B.A.)	89	..	371	..	..	7	..	7	..
32	19·95	0·059	− 0·02	0·01195	9·59989	0·70370	0·11554	135·666	40	715 (B.A.)	95	76	..	..	7	..	..	..	..
33	19·95	0·056	..	9·88098	0·10161	0·70374	0·11559	120·713	..	...	..	..	391	..	..	..	..	..	..
34	19·92	0·066	− 0·03	0·05227	9·46624	0·70551	0·11874	135·536	46	{ 78 (F.) 791 (B.A.) }	105	89	..	..	..	..	..	..	..
35	19·92	0·062	+ 0·21	9·89845	0·01516	0·70606	0·11967	125·294	..	827 (B.A.)	110	..	448	..	..	..	..	..	..
36	−19·91	+0·066	..	0·01632	9·60499	0·70677	0·12076	134·851	..	843 (B.A.)	114	96	..	..	..	..	..	..	..
37	19·91	0·063	..	9·88190	0·09205	0·70681	0·12086	120·919	..	856 (B.A.)	..	..	467	..	..	..	..	10	..
38	19·91	0·063	+ 0·04	9·87967	0·10570	0·70708	0·12126	119·996	50	865 (B.A.)	117	..	472	9	..	9	..	..	..
39	19·90	0·068	− 0·02	0·01720	9·60566	0·70739	0·12171	134·704	49	{ 87 (F.) 869 (B.A.) }	118	98	..	..	..	..	..	..	..
40	19·90		..	9·90482	9·99392	0·70766	0·12216	126·026	..	892 (B.A.)	..	..	484	..	..	..	..	..	..

The magnitudes of Stars taken from Argelander are marked with Asterisks. Other magnitudes are taken in the order of preference from the British Association Catalogue of 8377 Stars; from the Catalogue of Lalande published by the British Association; from Weisse's *Catalogus Stellarum ex Zonis Regiomontanis*; or, for the variable stars, from Mr. Pogson's lists in the "Radcliffe Observations, 1854 and 1856." The authorities for any remaining magnitudes are given in the Notes.

No.	Magnitude.	Star's Name.	Mean Right Ascension, 1860, Jan. 1, from Observations, 1854 to 1860.	Mean Year and Fraction of Year.	Number of Observations.	Annual Precession in R.A. for 1860, from Peters' Elements.	Secular Variation of Precession in R.A.	Annual Proper Motion in R.A. from Main or B.A.C.	Logarithms of e	Logarithms of f	Logarithms of g	Logarithms of h	Value of l	Mean North Polar Distance, 1860, Jan. 1, from Observations, 1854 to 1860.	Mean Year and Fraction of Year.	Number of Observations.
			h m s			s	s	s					s	° ′ ″		
41	5·6	Piazzi 0. 124	0. 29. 10·65	1855·8	4	+ 3·234	+0·0348	−0·003	0·11109	0·08339	1·45078	0·10149	81·959	46. 17. 2·79	1855·9	4
42	4	29 Andromedæ π	0. 29. 24·67	1859·6	3	3·183	+0·0241	+0·004	0·10680	0·08285	1·44999	0·09442	82·884	57. 3. 7·70	1859·6	5
43	4	30 Andromedæ ε	0. 31. 9·88	1857·5	35	3·171	+0·0207	−0·018	0·10557	0·08289	1·44980	0·09200	83·160	61. 26. 56·63	1857·6	63
44	8	Groombridge 115	0. 31. 50·76	1860·5	3	3·284	+0·0420	..	0·11402	0·08423	1·45153	0·10566	81·317	41. 11. 48·59	1860·5	3
45	9	Oeltz. Arg. 0. 599	0. 32. 27·86	1855·8	1	3·349	+0·0549	..	0·11970	0·08520	1·45254	0·11294	80·203	34. 13. 51·26	1855·8	1
46	Var.*	18 Cassiopeiæ α	0. 32. 35·06	1856·9	33	+ 3·350	+0·0549	+0·006	0·11969	0·08522	1·45256	0·11294	80·202	34. 13. 51·95	1856·9	33
47	6	Groombridge 120	0. 33. (45.)	..	..	3·500	+0·0861	..	0·13300	0·08760	1·45485	0·12837	77·657	24. 37. 16·31	1857·9	2
48	8·9	W.B. 0. 608	0. 35. 31·68	1858·8	5	3·083	+0·0054	..	0·10243	0·08289	1·44844	0·08043	84·308	86. 58. 36·10	1858·8	5
49	6*	20 Cassiopeiæ π	0. 35. 44·10	1859·9	3	3·289	+0·0390	+0·005	0·11235	0·08457	1·45162	0·10340	81·577	43. 44. 30·49	1859·9	3
50	2*	16 Ceti β	0. 36. 33·59	1857·2	49	3·000	−0·0056	+0·013	0·10363	0·08321	1·44716	0·07102	84·941	108. 45. 20·69	1857·3	39
51	6·5*	17 Ceti ϕ^1	0. 37. 7·52	1859·8	3	+ 3·029	−0·0018	+0·003	0·10281	0·08313	1·44760	0·07436	84·746	101. 22. 21·49	1859·8	3
52	6*	23 Cassiopeiæ	0. 38. (29.)	..	..	3·856	+0·1596	0·000	0·15826	0·09364	1·46023	0·15547	72·604	15. 55. 4·47	1860·8	2
53	5*	58 Piscium	0. 39. 43·48	1860·8	6	3·118	+0·0101	0·000	0·10276	0·08340	1·44898	0·08386	83·967	78. 47. 26·20	1860·8	6
54	6*	34 Andromedæ ζ	0. 39. 55·45	1856·0	5	3·173	+0·0177	−0·007	0·10435	0·08372	1·44983	0·08939	83·374	66. 29. 42·68	1856·0	10
55	6	60 Piscium	0. 40. 9·32	1856·7	9	3·096	+0·0073	+0·002	0·10244	0·08339	1·44865	0·08166	84·170	84. 1. 25·93	1856·7	9
56	4·3*	24 { Cassiopeiæ η^1	0. 40. 39·13	1858·0	8	+ 3·436	+0·0602	+0·132	0·12080	0·08694	1·45387	0·11439	79·786	32. 55. 40·95	1858·3	10
57	..	Cassiopeiæ η^2	0. 40. 40·04	1857·8	7	3·436	+0·0602	+0·132	0·12080	0·08695	1·45387	0·11439	79·786	32. 55. 44·39	1858·4	6
58	5*	25 Cassiopeiæ ν	0. 40. 54·99	1859·6	3	3·357	+0·0459	+0·008	0·11478	0·08583	1·45266	0·10679	80·977	39. 47. 45·72	1859·6	3
59	4·5*	63 Piscium δ	0. 41. 25·27	1858·4	11	3·101	+0·0078	+0·003	0·10246	0·08353	1·44872	0·08202	84·128	83. 10. 39·68	1858·3	10
60	..	Gr. Cat. 1850, No. 49.	0. 42. 21·84	1858·8	4	3·017	−0·0020	..	0·10282	0·08370	1·44743	0·07388	84·751	102. 31. 3·71	1858·8	4
61	7	Groombridge 163	0. 45. 22·51	1859·9	3	+ 3·373	+0·0444	..	0·11375	0·08634	1·45291	0·10549	81·093	41. 6. 20·60	1859·9	3
62	5·6*	20 Ceti	0. 45. 51·22	1855·8	2	3·063	+0·0035	−0·004	0·10222	0·08395	1·44814	0·07839	84·414	91. 54. 19·79	1855·8	2
63	5	Groombridge 171	0. 47. 8·84	1859·0	1	3·375	+0·0431	..	0·11307	0·08648	1·45293	0·10458	81·201	42. 4. 52·37	1859·0	1
64	2*	27 Cassiopeiæ γ	0. 48. 17·21	1857·5	8	3·556	+0·0707	−0·008	0·12392	0·08914	1·45569	0·11817	78·964	30. 2. 32·38	1857·1	25
65	9	W.B. 0. 834	0. 48. 30·98	1854·7	2	3·015	−0·0011	..	0·10261	0·08434	1·44739	0·07435	84·693	101. 30. 8·51	1854·7	2
66	4*	37 Andromedæ μ	0. 48. 59·63	1857·8	44	+ 3·292	+0·0303	+0·005	0·10802	0·08561	1·45166	0·09705	82·283	52. 15. 39·42	1858·7	45
67	5*	38 Andromedæ η	0. 49. 44·21	1859·9	3	3·192	+0·0177	+0·001	0·10399	0·08478	1·45013	0·08892	83·336	67. 20. 21·09	1859·9	5
68	5*	2 Ursæ Minoris	0. 50. 17·00	1860·5	3	6·769	+1·2661	+0·065	0·30750	0·14142	1·50200	0·30696	35·818	4. 29. 45·46	1860·5	5
69	5·4*	Sculptoris α	0. 51. 51·39	1859·9	3	2·898	−0·0102	+0·001	0·10555	0·08540	1·44557	0·06533	85·154	120. 6. 54·36	1859·9	3
70	7·8	70 Piscium	0. 54. 50·14	1855·8	4	3·112	+0·0086	−0·003	0·10219	0·08491	1·44889	0·08212	84·032	82. 48. 53·43	1856·4	2
71	6	Groombridge 215	0. 54. 50·68	1860·7	2	+ 4·150	+0·1724	..	0·15522	0·09899	1·46464	0·15239	72·372	16. 22. 52·28	1860·7	3
72	4*	71 Piscium ε	0. 55. 40·79	1858·0	74	3·112	+0·0086	−0·002	0·10217	0·08499	1·44890	0·08210	84·028	82. 51. 52·62	1857·8	54
73	6*	30 Cassiopeiæ μ	0. 58. 58·93	1860·7	2	3·544	+0·0573	+0·386	0·11737	0·08956	1·45551	0·11042	80·028	35. 46. 5·77	1860·7	2
74	7	Piazzi 0. 285	0. 59. 4·43	1859·9	3	3·462	+0·0463	..	0·11323	0·08841	1·45426	0·10505	80·914	41. 11. 39·69	1859·9	3
75	5*	41 Andromedæ	0. 59. 59·49	1859·9	3	3·397	+0·0378	+0·018	0·11003	0·08766	1·45327	0·10053	81·613	46. 48. 17·66	1859·9	3
76	6·5*	80 Piscium e	1. 1. 9·57	1857·0	17	+ 3·102	+0·0077	−0·021	0·10194	0·08552	1·44874	0·08117	84·084	85. 5. 31·37	1856·8	15
77	4·5*	42 Andromedæ φ	1. 1. 23·52	1859·9	3	3·445	+0·0428	−0·004	0·11173	0·08835	1·45400	0·10303	81·199	43. 30. 20·99	1859·9	3
78	2·3*	43 Andromedæ β	1. 1. 54·20	1857·9	14	3·321	+0·0285	+0·015	0·10664	0·08696	1·45210	0·09510	82·396	55. 7. 22·34	1858·1	9
79	4·5*	33 Cassiopeiæ θ	1. 2. 36·07	1860·2	4	3·576	+0·0584	+0·023	0·11737	0·09022	1·45600	0·11048	79·938	35. 35. 46·04	1860·2	4
80	6	Piazzi 0. 311	1. 2. 46·31	1858·9	7	3·168	+0·0134	+0·018	0·10258	0·08589	1·44976	0·08533	83·642	75. 4. 20·18	1858·8	8

46. The magnitude varies from 2 to 3.
69. Identical with Lacaille 266.
52. The same as Schwerd 32.
71. Identical with Schwerd 51.
68. Identical with Schwerd 45.

Annual Precession in N.P.D. for 1860, from Peters' Elements.	Secular Variation of Precession in N.P.D.	Annual Proper Motion in N.P.D. from Main or B.A.C.	Logarithms of e′	Logarithms of f′	Logarithms of g′	Logarithms of h′	Value of l′	No. in Bessel's Bradley. 1755.	No. in Lalande Fedorenko (F.) 1790, or British Association (B.A.) 1800.	Hour and No. in Piazzi. 1800.	No. in Groombridge. 1810.	Hour and No. in Weisse's Bessel. 1825.	No. in Argelander. 1830.	No. in Pond's 1112. 1830.	No. in First Cambridge Catalogue. 1830.	No. in Johnson's (St. Helena). 1830.	No. in Fallows. 1830.	No. in Struve. 1830.	No.
″	″	″					″			0h.		0h.							
−19·89	+0·068	− 0·01	9·98860	9·71138	0·70813	0·12285	133·484	..	907 (B.A.)	124	103	..	..	..	..	..	..	..	41
19·89	0·068	0·00	9·95694	9·81993	0·70837	0·12323	131·512	53	920 (B.A.)	125	..	..	..	10	..	..	..	42	42
19·87	0·071	+ 0·24	9·94626	9·86123	0·71007	0·12567	130·203	56	976 (B.A.)	134	..	..	13	11	..	..	..	..	43
19·86	0·075	..	0·00792	9·65784	0·71072	0·12660	133·543	..	989 (B.A.)	..	115	..	..	..	..	..	..	..	44
19·86	0·078	..	0·03044	9·58152	0·71138	0·12749	133·943	..	...	..	..	..	..	..	..	..	..	..	45
−19·86	+0·078	+ 0·04	0·03060	9·58158	0·71150	0·12766	133·917	59	{ 102 (F.) 1017 (B.A.) }	139	117	..	15	13	11	..	..	45	46
19·84	0·083	..	0·06168	9·47817	0·71277	0·12928	133·805	..	1059 (B.A.)	..	120	..	..	..	..	..	..	..	47
19·82	0·078	..	9·88919	0·05994	0·71473	0·13175	121·848	..	1124 (B.A.)	..	..	608	..	..	..	..	..	..	48
19·81	0·083	+ 0·01	0·00522	9·68699	0·71496	0·13203	132·430	67	{ 111 (F.) 1126 (B.A.) }	154	128	..	..	14	..	..	..	..	49
19·80	0·078	− 0·02	9·86806	0·18109	0·71591	0·13318	113·406	70	1155 (B.A.)	159	..	..	17	15	12	14	13	..	50
−19·79	+ 0·080	+ 0·10	9·87087	0·14442	0·71656	0·13394	116·288	71	1174 (B.A.)	163	..	637	..	16	..	15	..	..	51
19·77	0·103	+ 0·03	0·09402	9·40139	0·71842	0·13580	132·205	72	115 (F.)	165	136	..	..	..	..	..	..	..	52
19·76	0·087	0·00	9·90736	0·00363	0·71974	0·13749	123·987	76	1254 (B.A.)	179	..	681	..	..	..	..	..	..	53
19·75	0·089	+ 0·11	9·94012	9·90703	0·72000	0·13779	127·406	78	1263 (B.A.)	182	..	..	..	17	..	..	..	..	54
19·75	0·087	0·00	9·89575	0·04035	0·72026	0·13808	122·243	80	1273 (B.A.)	183	..	689	..	..	..	..	..	..	55
−19·74	+ 0·097	+ 0·49	0·04618	9·57272	0·72090	0·13876	132·126	79	1271 (B.A.)	185	146	..	19	18	..	..	..	59	56
19·74	0·097	+ 0·49	0·04618	9·57272	0·72090	0·13878	132·124	..	1274 (B.A.)	..	..	..	..	..	..	..	..	..	57
19·74	0·096	+ 0·07	0·02473	9·64732	0·72124	0·13912	131·681	83	1288 (B.A.)	187	150	..	..	..	..	..	..	..	58
19·73	0·090	+ 0·05	9·89785	0·03473	0·72188	0·13979	122·341	85	1312 (B.A.)	192	..	714	..	19	14	..	14	..	59
19·71	0·089	..	9·86723	0·15015	0·72311	0·14108	115·320	..	...	..	..	..	..	..	..	..	..	..	60
−19·66	+ 0·105	..	0·02649	9·66384	0·72718	0·14509	130·579	..	{ 136 (F.) 1445 (B.A.) }	..	163	..	..	..	..	..	..	..	61
19·66	0·097	+ 0·01	9·88064	0·09079	0·72789	0·14574	118·812	93	1474 (B.A.)	213	..	..	..	21	15	17	15	..	62
19·63	0·109	..	0·02563	9·67528	0·72968	0·14745	130·097	..	{ 140 (F.) 1511 (B.A.) }	..	171	..	..	..	..	..	..	..	63
19·61	0·117	− 0·02	0·06584	9·54845	0·73140	0·14895	130·375	99	{ 143 (F.) 1548 (B.A.) }	225	181	..	..	22	16	..	..	..	64
19·61	0·101	..	9·86504	0·14455	0·73176	0·14928	115·078	..	...	..	..	834	..	..	..	..	..	..	65
−19·60	+0·110	− 0·05	9·99414	9·77956	0·73245	0·14989	128·501	101	1578 (B.A.)	232	..	..	22	24	..	..	..	..	66
19·59	0·109	− 0·01	9·94576	9·91574	0·73357	0·15085	125·463	104	1612 (B.A.)	238	..	..	..	25	..	..	..	..	67
19·58	0·223	+ 0·01	0·14076	9·35590	0·73433	0·15150	127·812	92	137 (F.)	220	177	..	..	23	..	..	..	..	68
19·54	0·103	+ 0·03	9·85248	0·22762	0·73685	0·15363	107·819	..	1693 (B.A.)	250	..	..	..	26	..	18	16	..	69
19·49	0·116	− 0·17	9·90260	0·03283	0·74159	0·15745	120·516	110	1789 (B.A.)	260	..	956	..	..	..	..	..	..	70
−19·49	+0·152	..	0·11561	9·42801	0·74159	0·15745	128·134	..	158 (F.)	..	215	..	..	..	..	..	..	..	71
19·47	0·118	0·00	9·90271	0·03321	0·74300	0·15854	120·375	113	1819 (B.A.)	264	..	970	..	27	17	..	..	..	72
19·40	0·140	+ 1·56	0·06168	9·61829	0·74840	0·16262	127·726	118	...	277	237	..	23	..	..	..	..	..	73
19·39	0·137	..	0·04376	9·67435	0·74874	0·16285	127·436	..	177 (F.)	285	241	..	..	..	..	..	..	..	74
19·37	0·137	+ 0·04	0·02563	9·73141	0·75030	0·16398	126·789	129	1956 (B.A.)	290	246	..	24	..	..	..	..	..	75
−19·35	+0·128	+ 0·19	9·89779	0·04818	0·75235	0·16546	118·931	136	2004 (B.A.)	299	..	..	26	29	20	..	..	..	76
19·34	0·141	+ 0·01	0·03874	9·69940	0·75277	0·16573	126·748	134	{ 180 (F.) 2003 (B.A.) }	298	252	..	..	30	..	..	..	..	77
19·33	0·138	+ 0·09	9·99852	9·81213	0·75369	0·16638	125·387	140	2029 (B.A.)	301	..	..	28	32	..	..	..	89	78
19·31	0·149	+ 0·02	0·06696	9·62016	0·75488	0·16722	126·840	142	2049 (B.A.)	307	257	..	29	33	..	..	..	..	79
19·31	0·133	+ 0·17	9·92962	9·97860	0·75525	0·16748	121·348	..	2068 (B.A.)	311	..	1h. 14	..	..	..	..	..	..	80

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No.	Magnitude.	Star's Name.	Mean Right Ascension, 1860, Jan. 1, from Observations, 1854 to 1860.	Mean Year and Fraction of Year.	Number of Observations.	Annual Precession in R.A. for 1860, from Peters' Elements.	Secular Variation of Precession in R.A.	Annual Proper Motion in R.A. from Main or B.A.C.	Logarithms of e	f	g	h	Value of l	Mean North Polar Distance, 1860, Jan. 1, from Observations, 1854 to 1860.	Mean Year and Fraction of Year.	Number of Observations.
			h m s			s	s	s					s	° ′ ″		
81	5·4*	84 Piscium.......... χ	1. 3. 56·03	1859·9	3	+ 3·208	+ 0·0168	+ 0·005	0·10323	0·08621	1·45037	0·08767	83·362	69. 42. 38·59	1859·9	3
82	5·4*	86 Piscium......... ζ^1	1. 6. 25·10	1859·8	8	3·118	+ 0·0090	+ 0·008	0·10187	0·08607	1·44898	0·08194	83·979	83. 9. 57·91	1859·8	8
83	8	Piscium......... ζ^2	1. 6. 26·59	1859·8	6	3·118	+ 0·0090	+ 0·007	0·10187	0·08607	1·44898	0·08194	83·979	83. 9. 47·12	1859·8	6
84	9·10	1 UrsæMinoris (1stStar)	1. 7. 37·05	1857·0	6	18·515	+12·5528	..	†..	..	..	..	..	1. 26. 28·60	1856·8	9
85	6*	38 Ceti...............	1. 7. 40·38	1855·3	3	3·060	+ 0·0047	− 0·006	0·10169	0·08615	1·44809	0·07849	84·295	91. 43. 26·71	1855·5	2
86	2*	1 Ursæ Minoris..... α	1. 8. 3·05	1857·5	980	+ 18·667	+12·6987	+ 0·065	‡..	..	..	..	..	1. 26. 12·90	1857·5	1222
87	6	40 Ceti...............	1. 9. 49·05	1855·9	3	3·051	+ 0·0042	+ 0·014	0·10165	0·08636	1·44795	0·07798	84·329	93. 0. 49·66	1855·9	4
88	5·6*	89 Piscium.......... f	1. 10. 34·80	1855·2	4	3·092	+ 0·0071	− 0·005	0·10162	0·08644	1·44859	0·08033	84·113	87. 7. 26·16	1855·2	4
89	8	W.B. I. 206........	1. 13. 44·18	1854·8	1	3·057	+ 0·0048	..	0·10151	0·08675	1·44804	0·07836	84·279	92. 2. 54·52	1854·8	1
90	5*	46 Andromedæ...... ξ	1. 14. 6·87	1857·9	5	3·494	+ 0·0415	+ 0·005	0·11029	0·08985	1·45475	0·10132	81·265	45. 12. 21·87	1857·6	3
91	5*	36 Cassiopeiæ....... ψ	1. 16. 5·46	1860·5	3	+ 4·119	+ 0·1195	+ 0·005	0·13482	0·09918	1·46417	0·13078	75·759	22. 36. 10·28	1860·8	2
92	3*	45 Ceti............. θ	1. 17. 1·53	1856·9	69	3·003	+ 0·0018	− 0·007	0·10165	0·08716	1·44720	0·07560	84·494	98. 54. 24·68	1856·5	49
93	6	Piazzi I. 69........	1. 18. 5·67	1860·0	3	3·485	+ 0·0388	+ 0·004	0·10909	0·09003	1·45461	0·09969	81·470	47. 16. 11·41	1860·0	3
94	5*	93 Piscium.......... ρ	1. 18. 42·79	1857·6	9	3·222	+ 0·0163	− 0·003	0·10250	0·08766	1·45059	0·08670	83·364	71. 33. 27·58	1857·6	9
95	·5	94 Piscium............	1. 19. 8·32	1857·1	6	3·224	+ 0·0163	+ 0·004	0·10249	0·08771	1·45061	0·08672	83·358	71. 29. 10·78	1857·1	6
96	5*	98 Piscium.......... μ	1. 22. 51·13	1855·6	8	+ 3·125	+ 0·0094	+ 0·019	0·10128	0·08757	1·44909	0·08172	83·923	84. 34. 45·05	1855·6	8
97	·10	......	1. 23. 15·79	1857·8	9	3·091	+ 0·0073	..	0·10119	0·08768	1·44856	0·08007	84·078	87. 45. 12·36	1857·6	10
98	11	......	1. 23. 24·97	1854·7	1	3·090	+ 0·0073	..	0·10118	0·08769	1·44855	0·08003	84·080	87. 50. 30·84	1854·7	1
99	·10	......	1. 23. 32·33	1858·8	4	3·090	+ 0·0073	..	0·10117	0·08770	1·44855	0·08003	84·081	87. 49. 46·48	1858·8	4
100	9	W. B. I. 400........	1. 23. 59·43	1857·2	4	3·090	+ 0·0073	..	0·10116	0·08775	1·44856	0·08004	84·077	87. 50. 10·41	1857·2	4
101	4·3*	99 Piscium.......... η	1. 23. 59·78	1857·7	74	+ 3·197	+ 0·0141	0·000	0·10186	0·08803	1·45020	0·08501	83·533	75. 22. 38·01	1857·9	75
102	6	B. A. C. 458........	1. 24. 59·89	1855·6	3	2·784	− 0·0070	..	0·10458	0·08924	1·44380	0·06562	85·071	120. 42. 32·54	1855·6	3
103	6*	40 Cassiopeiæ.........	1. 27. 24·05	1860·7	1	4·634	+ 0·1811	− 0·010	0·14727	0·10778	1·47178	0·14432	72·451	17. 40. 32·97	1860·8	3
104	6	101 Piscium............	1. 28. 17·54	1856·3	7	3·197	+ 0·0138	+ 0·002	0·10164	0·08842	1·45020	0·08470	83·543	76. 3. 20·78	1856·3	7
105	6	Piazzi I. 120........	1. 28. 20·58	1856·9	6	3·223	+ 0·0155	+ 0·011	0·10192	0·08855	1·45060	0·08585	83·402	73. 17. 3·03	1856·9	6
106	6	B. A. C. 482........	1. 29. 0·29	1854·8	4	+ 3·859	+ 0·0712	..	0·11863	0·09576	1·46029	0·11259	78·950	32. 44. 15·52	1854·8	2
107	6*	102 Piscium.......... π	1. 29. 40·83	1856·1	12	3·175	+ 0·0124	− 0·007	0·10136	0·08847	1·44987	0·08366	83·658	78. 34. 33·43	1856·1	12
108	7·8	Bradley 217........	1. 30. 13·90	1855·8	1	3·175	+ 0·0124	+ 0·016	0·10134	0·08852	1·44987	0·08363	83·659	78. 38. 12·92	1855·8	1
109	6*	43 Cassiopeiæ....... ω	1. 32. 1·39	1860·8	1	4·323	+ 0·1255	− 0·001	0·13329	0·10300	1·46721	0·12934	75·468	22. 40. ...	..	..
110	6*	105 Piscium......	1. 32. 7·94	1856·4	8	3·219	+ 0·0150	+ 0·006	0·10166	0·08889	1·45054	0·08538	83·434	74. 18. 21·89	1856·4	8
111	6	Piazzi I. 142........	1. 33. 16·52	1860·8	3	+ 3·547	+ 0·0387	+ 0·080	0·10798	0·09183	1·45556	0·09863	81·426	48. 5. 26·61	1860·8	3
112	5·4*	106 Piscium.......... ν	1. 34. 8·87	1857·2	62	3·117	+ 0·0090	− 0·004	0·10083	0·08874	1·44896	0·08102	83·932	85. 13. 20·24	1856·8	43
113	5·6*	107 Piscium............	1. 34. 54·19	1856·9	5	3·263	+ 0·0176	− 0·018	0·10201	0·08937	1·45122	0·08698	83·209	70. 24. 49·20	1856·9	5
114	6	Piazzi I. 157.......	1. 35. 49·36	1854·9	3	2·719	− 0·0068	+ 0·028	0·10472	0·09071	1·44278	0·06460	85·104	123. 2. 2·40	1854·9	3
115	6·7	109 Piscium............	1. 37. 17·36	1855·9	3	3·266	+ 0·0175	− 0·003	0·10189	0·08959	1·45126	0·08685	83·209	70. 37. 3·09	1855·9	3
116	3·4*	52 Ceti............. τ	1. 37. 33·79	1860·8	5	+ 2·907	− 0·0004	− 0·123	0·10154	0·08947	1·44571	0·07254	84·663	106. 40. 33·83	1860·8	5
117	4*	110 Piscium.......... o	1. 38. 0·28	1855·3	11	3·154	+ 0·0110	+ 0·006	0·10083	0·08918	1·44955	0·08243	83·758	81. 32. 54·41	1855·3	11
118	..	......	1. 38. 45·67	1854·7	1	3·038	+ 0·0052	..	0·10060	0·08916	1·44774	0·07785	84·233	93. 30. 3·86	1854·7	1
119	..	......	1. 38. 57·83	1854·7	1	3·038	+ 0·0052	..	0·10060	0·08918	1·44774	0·07785	84·231	93. 30. 9·42	1854·7	1
120	6	54 Ceti..............	1. 43. 26·46	1857·0	7	3·179	+ 0·0122	− 0·008	0·10071	0·08975	1·44992	0·08313	83·648	79. 39. 5·62	1857·0	7

94, 95. The right ascensions of these stars given in Lalande are 1^m too great.

108. Bradley has no N.P.D.

114. Identical with Lacaille 500.

† For No. 84, log. e = 0·57240, log. f = 0·29452, log. g = 1·63864, log. h = 0·57230, l = $-78^s \cdot 250$.

‡ For No. 86, log. e = 0·57313, log. f = 0·29620, log. g = 1·64015, log. h = 0·57303, l = $-78^s \cdot 937$.

Annual Precession in N.P.D. for 1860, from Peters' Elements.	Secular Variation of Precession in N.P.D.	Annual Proper Motion in N.P.D. from Main or B.A.C.	Logarithms of e′	f′	g′	h′	Value of l′	No. in Bessel's Bradley. 1755.	No. in Lalande Fedorenko (F.) 1790, or British Association (B.A.) 1800.	Hour and No. in Piazzi. 1800.	No. in Groombridge. 1810.	No. in Weisse's Bessel. 1825.	No. in Argelander. 1830.	No. in Pond's 1112. 1830.	No. in First Cambridge Catalogue. 1830.	No. in Johnson's (St. Helena). 1830.	No. in Fallows. 1830.	No. in Struve. 1830.	No.
″	″	″					″												
−19·28	+0·137	+ 0·01	9·94866	9·93788	0·75735	0·16891	122·371	150	2120 (B.A.)	I. 6	..	I. ..	..	34	..	..	..	..	81
19·22	0·138	+ 0·07	9·90482	0·03582	0·76194	0·17195	118·691	158	2187 (B.A.)	16	..	75	31	35	..	..	..	96	82
19·22	0·138	+ 0·07	9·90482	0·03582	0·76197	0·17197	118·688	159	2189 (B.A.)	17	..	77	..	..	..	..	..	..	83
19·19	0·793	..	0·17014	9·38649	0·76419	0·17337	122·685	..	...	..	..	..	..	..	..	..	..	..	84
19·19	0·138	− 0·21	9·87944	0·08944	0·76432	0·17347	116·095	165	2226 (B.A.)	25	..	104	33	..	..	..	..	..	85
−19·18	+0·805	0·00	0·17070	9·38746	0·76501	0·17392	122·563	102	161 (F.)	0. 263	235	..	..	28	19	..	..	88	86
19·14	0·142	+ 0·14	9·87558	0·09698	0·76830	0·17606	115·436	168	2308 (B.A.)	I. 33	..	134	35	..	..	..	..	..	87
19·11	0·145	+ 0·02	9·89315	0·06148	0·76996	0·17700	117·005	171	2329 (B.A.)	36	..	..	..	..	22	..	19	..	88
19·03	0·149	..	9·87800	0·09129	0·77620	0·18075	115·202	..	2431 (B.A.)	..	..	206	..	..	..	..	..	..	89
19·02	0·170	+ 0·03	0·04766	9·72571	0·77699	0·18121	123·680	177	2430 (B.A.)	51	300	..	..	36	..	..	..	..	90
−18·96	+0·204	− 0·02	0·12519	9·51483	0·78100	0·18353	123·072	178	2468 (B.A.)	53	303	..	..	37	..	..	..	111	91
18·93	0·153	+ 0·22	9·85751	0·12907	0·78294	0·18465	112·814	184	2541 (B.A.)	67	..	268	..	39	..	22	20	..	92
18·90	0·178	+ 0·04	0·04458	9·74851	0·78512	0·18587	122·615	..	2569 (B.A.)	69	309	..	..	..	..	..	..	..	93
18·89	0·166	− 0·06	9·95182	9·95520	0·78639	0·18659	119·319	185	2627 (B.A.)	72	..	..	..	..	..	..	..	..	94
18·87	0·167	+ 0·01	9·95231	9·95480	0·78732	0·18708	119·256	189	2645 (B.A.)	77	..	..	..	..	..	..	..	..	95
−18·76	+0·167	+ 0·18	9·90363	0·04599	0·79523	0·19022	115·953	199	2735 (B.A.)	95	..	379	39	42	25	..	23	..	96
18·75	0·172	..	9·89232	0·06569	0·79613	0·19184	115·019	..	...	..	..	..	..	..	..	..	..	..	97
18·74	0·169	..	9·89198	0·06631	0·79643	0·19199	114·973	..	...	..	..	..	..	..	..	..	..	..	98
18·74	0·169	..	9·89204	0·06621	0·79670	0·19214	114·959	..	...	..	..	..	..	..	..	..	..	..	99
18·72	0·170	..	9·89215	0·06612	0·79768	0·19266	114·897	..	...	..	..	400	..	..	..	..	..	..	100
−18·72	+0·175	0·00	9·93977	9·98427	0·79771	0·19268	117·634	203	2763 (B.A.)	98	..	..	..	43	..	..	..	..	101
18·69	0·155	..	9·80747	0·22429	0·79988	0·19381	105·419	..	...	..	..	..	..	..	..	..	..	..	102
18·62	0·260	+ 0·05	0·15314	9·49927	0·80517	0·19650	119·572	206	250 (F.)	106	337	..	..	..	..	..	..	..	103
18·59	0·183	− 0·02	9·93927	9·98971	0·80715	0·19751	116·754	211	2911 (B.A.)	118	..	483	..	..	..	..	..	..	104
18·59	0·185	− 0·07	9·95061	9·97010	0·80724	0·19754	117·252	..	2913 (B.A.)	120	..	..	..	..	..	..	..	..	105
−18·56	+0·221	..	0·10853	9·62472	0·80867	0·19829	120·175	..	...	..	..	..	..	..	..	..	..	..	106
18·54	0·185	− 0·03	9·92952	0·00733	0·81023	0·19905	116·031	214	2951 (B.A.)	126	..	501	..	47	..	..	..	..	107
18·52	0·186	0·00	9·92952	0·00774	0·81149	0·19966	115·929	217	2970 (B.A.)	128	..	513	..	..	..	..	..	..	108
18·46	0·254	+ 0·01	0·14411	9·54486	0·81555	0·20163	118·777	216	3003 (B.A.)	133	359	..	..	..	..	..	..	..	109
18·46	0·192	0·00	9·94851	9·97817	0·81578	0·20174	116·388	223	3041 (B.A.)	138	..	..	..	48	..	..	..	..	110
−18·42	+0·213	+ 0·06	0·05786	9·76828	0·81827	0·20298	118·982	..	3054 (B.A.)	142	364	..	44	..	..	..	..	..	111
18·39	0·190	+ 0·04	9·90358	0·05059	0·82040	0·20394	113·969	228	3111 (B.A.)	150	..	609	..	49	30	..	27	..	112
18·36	0·199	+ 0·66	9·96666	9·95092	0·82213	0·20476	116·492	229	3128 (B.A.)	154	..	..	46	..	..	..	..	..	113
18·33	0·169	− 0·02	9·78873	0·22998	0·82427	0·20577	104·017	..	...	157	..	..	..	..	..	..	..	..	114
18·28	0·204	+ 0·08	9·96727	9·95307	0·82762	0·20733	116·010	231	3190 (B.A.)	162	..	..	..	..	..	..	..	..	115
−18·27	+0·183	− 0·85	9·82328	0·16479	0·82834	0·20765	108·412	233	3207 (B.A.)	163	..	..	47	51	..	28	28	..	116
18·25	0·199	− 0·01	9·91997	0·02787	0·82931	0·20809	114·083	232	3212 (B.A.)	164	..	688	..	52	31	..	29	..	117
18·22	0·193	..	9·87005	0·09881	0·83106	0·20889	111·503	..	...	..	..	..	..	..	..	..	..	..	118
18·22	0·193	..	9·87005	0·09879	0·83149	0·20908	111·479	..	...	..	..	..	..	..	..	..	..	..	119
18·05	0·210	+ 0·07	9·93018	0·01634	0·84213	0·21382	113·507	243	3380 (B.A.)	185	..	767	52	..	..	..	..	..	120

The magnitudes of Stars taken from Argelander are marked with Asterisks. Other magnitudes are taken in the order of preference from the British Association Catalogue of 8377 Stars; from the Catalogue of Lalande published by the British Association; from Weisse's *Catalogus Stellarum ex Zonis Regiomontanis*; or, for the variable stars, from Mr. Pogson's lists in the "Radcliffe Observations, 1854 and 1856." The authorities for any remaining magnitudes are given in the Notes.

No.	Magnitude.	Star's Name.	Mean Right Ascension, 1860, Jan. 1, from Observations, 1854 to 1860.	Mean Year and Fraction of Year.	Number of Observations.	Annual Precession in R.A. for 1860, from Peters' Elements.	Secular Variation of Precession in R.A.	Annual Proper Motion in R.A. from Main or B.A.C.	Logarithms of e	Logarithms of f	Logarithms of g	Logarithms of h	Value of l	Mean North Polar Distance, 1860, Jan. 1, from Observations, 1854 to 1860.	Mean Year and Fraction of Year.	Number of Observations.
			h m s			s	s	s					s	° ′ ″		
121	8	W. B. I. 790	1. 44. 29·84	1854·7	1	+ 3·038	+0·0055	..	0·10035	0·08969	1·44774	0·07792	84·208	93. 19. 51·07	1854·7	1
122	5*	46 Cassiopeiæ	1. 45. 11·02	1856·0	3	4·537	+0·1359	0·000	0·13340	0·10681	1·47037	0·12966	74·897	22. 0. 17·95	1858·0	23
123	4·3*	5 Arietis γ^1	1. 45. 51·19	1859·4	7	3·273	+0·0172	+ 0·002	0·10140	0·09038	1·45137	0·08639	83·212	71. 23. 39·53	1859·4	7
124	4·3	5 Arietis γ^2	1. 45. 51·21	1859·4	6	3·273	+0·0172	+ 0·002	0·10140	0·09038	1·45137	0·08639	83·212	71. 23. 30·51	1859·4	7
125	3·2*	6 Arietis β	1. 46. 54·72	1857·5	52	3·292	+0·0182	+ 0·002	0·10155	0·09059	1·45167	0·08700	83·119	69. 52. 41·15	1857·3	52
126	6*	8 Arietis ι	1. 49. 42·44	1858·0	6	+ 3·262	+0·0163	+ 0·007	0·10103	0·09066	1·45120	0·08574	83·278	72. 52. 3·75	1858·0	7
127	4*	50 Cassiopeiæ	1. 51. 33·24	1860·9	1	4·968	+0·1852	− 0·009	0·14239	0·11377	1·47665	0·13944	72·387	18. 15. 32·53	1860·4	3
128	6	Piazzi I. 222	1. 51. 49·80	1857·4	8	3·305	+0·0185	+ 0·017	0·10134	0·09108	1·45186	0·08703	83·084	69. 37. 23·83	1857·4	8
129	6	112 Piscium	1. 52. 52·33	1860·9	4	3·099	+0·0085	+ 0·023	0·09995	0·09045	1·44869	0·08008	83·960	87. 34. 27·60	1860·9	4
130	4*	59 Ceti υ	1. 53. 24·49	1859·6	9	2·819	−0·0013	+ 0·009	0·10147	0·09134	1·44434	0·07062	84·771	111. 45. 28·52	1859·7	7
131	2·3*	57 Andromedæ γ^1	1. 55. 19·21	1858·2	19	+ 3·646	+0·0391	+ 0·001	0·10659	0·09448	1·45706	0·09759	81·296	48. 20. 38·66	1858·3	14
132	9	Andromedæ γ^2	1. 55. 20·09	1858·2	11	3·646	+0·0391	+ 0·001	0·10659	0·09448	1·45706	0·09760	81·295	48. 20. 34·33	1858·3	10
133	..	......	1. 55. 25·07	1855·0	1	3·195	+0·0127	..	0·10018	0·09088	1·45018	0·08319	83·582	79. 11. 11·80	1855·0	1
134	7	W. B. I. 990	1. 55. 45·86	1854·0	1	3·038	+0·0061	..	0·09982	0·09072	1·44774	0·07805	84·165	93. 3. 11·21	1854·0	1
135	9	W. B. I. 988	1. 55. 48·43	1855·0	2	3·198	+0·0128	..	0·10017	0·09092	1·45021	0·08326	83·573	79. 1. 21·23	1855·0	2
136	6	Piazzi I. 243	1. 56. 2·31	1856·4	7	+ 3·277	+0·0167	+ 0·007	0·10077	0·09128	1·45144	0·08583	83·227	72. 25. 17·23	1856·2	4
137	2*	13 Arietis α	1. 59. 17·28	1857·1	75	3·352	+0·0203	+ 0·012	0·10132	0·09201	1·45258	0·08790	82·902	67. 12. 5·60	1857·1	84
138	3*	4 Trianguli β	2. 1. 13·49	1856·1	1	3·533	+0·0303	+ 0·013	0·10370	0·09368	1·45534	0·09318	82·018	55. 40. 38·19	1856·1	1
139	6*	15 Arietis	2. 2. 52·35	1860·6	3	3·305	+0·0176	+ 0·008	0·10057	0·09201	1·45186	0·08620	83·132	71. 9. 43·98	1860·6	3
140	6*	6 Persei	2. 4. 19·05	1860·9	1	3·907	+0·0550	+ 0·035	0·11046	0·09830	1·46100	0·10348	79·996	39. 35. 15·90	1860·9	1
141	5·6*	17 Arietis η	2. 4. 58·15	1859·7	6	+ 3·332	+0·0188	+ 0·009	0·10067	0·09235	1·45228	0·08685	83·021	69. 26. 55·75	1859·7	6
142	4·5*	65 Ceti ξ^1	2. 5. 34·97	1855·5	9	3·172	+0·0115	− 0·004	0·09950	0·09170	1·44982	0·08213	83·676	81. 48. 42·63	1855·4	8
143	..	......	2. 7. 24·67	1854·9	1	3·237	+0·0142	..	0·09973	0·09206	1·45082	0·08394	83·428	76. 50. 55·16	1854·9	1
144	..	......	2. 7. 40·01	1855·0	1	3·262	+0·0153	..	0·09989	0·09220	1·45121	0·08467	83·325	74. 55. 19·14	1855·0	1
145	8	W. B. II. 109	2. 8. 17·70	1855·0	1	3·264	+0·0154	..	0·09986	0·09226	1·45124	0·08469	83·320	74. 49. 55·57	1855·0	1
146	6·5*	8 Trianguli δ	2. 8. 31·08	1860·8	3	+ 3·544	+0·0295	+ 0·096	0·10305	0·09432	1·45552	0·09254	82·051	56. 25. 7·35	1860·8	5
147	6*	67 Ceti	2. 10. 0·10	1857·2	40	2·983	+0·0049	+ 0·003	0·09922	0·09205	1·44689	0·07665	84·276	97. 4. 8·89	1856·4	26
148	6·5*	22 Arietis θ	2. 10. 20·65	1859·8	7	3·324	+0·0189	− 0·002	0·10020	0·09273	1·45215	0·08622	83·083	70. 44. 54·21	1859·8	7
149	Var.*	68 Ceti o	2. 12. 16·58	1860·7	1	3·026	+0·0063	− 0·003	0·09898	0·09218	1·44756	0·07791	84·147	93. 36. 54·29	1860·7	1
150	..	......	2. 14. 7·44	1854·9	1	3·279	+0·0157	..	0·09958	0·09281	1·45146	0·08478	83·278	74. 20. 59·29	1854·9	1
151	6*	69 Ceti	2. 14. 46·32	1854·0	1	+ 3·069	+0·0078	0·000	0·09881	0·09236	1·44822	0·07909	84·013	90. 14. 46·14	1854·0	1
152	6	Lalande 4458	2. 17. 8·58	1860·8	1	2·678	−0·0015	− 0·007	0·10112	0·09426	1·44213	0·06862	84·894	117. 37. 57·22	1860·8	1
153	5·6*	24 Arietis ξ	2. 17. 18·99	1856·4	2	3·205	+0·0126	0·000	0·09896	0·09278	1·45032	0·08267	83·561	80. 1. 31·97	1856·4	2
154	..	B. A. C. 744 (1st Star)	2. 17. (34.)	..	..	4·832	+0·1304	..	0·12692	0·11243	1·47468	0·12325	75·125	23. 13. 48·49	1859·9	1
155	4	Bradley 332	2. 17. 34·95	1860·0	4	4·832	+0·1304	− 0·009	0·12692	0·11243	1·47468	0·12325	75·125	23. 13. 49·19	1859·8	15
156	..	B. A. C. 744 (3rd Star)	2. 17. 36·37	1859·9	1	+ 4·832	+0·1304	..	0·12692	0·11243	1·47468	0·12324	75·126	23. 13. 48·95	1859·9	1
157	4*	73 Ceti ξ^2	2. 20. 43·13	1856·7	50	3·178	+0·0115	+ 0·001	0·09865	0·09300	1·44991	0·08189	83·654	82. 10. 10·73	1856·0	35
158	8	Radcliffe 713	2. 21. 24·60	1860·4	1	15·482	+ 3·5520	..	0·31685	0·26008	1·60727	0·31649	12·253	3. 34. 2·26	1860·4	1
159	6	27 Arietis	2. 23. 8·79	1857·8	11	3·312	+0·0166	0·000	0·09918	0·09370	1·45198	0·08516	83·175	72. 55. 3·01	1857·8	11
160	9	W. B. II. 383	2. 23. 18·47	1858·9	3	3·258	+0·0144	..	0·09884	0·09347	1·45113	0·08380	83·378	76. 39. 52·23	1858·9	3

149. The limits of magnitude are 2, and smaller than 12.

152. Identical with Lacaille 718.

158. Identical with Schwerd 119 or 120.

Annual Precession in N.P.D. for 1860, from Peters' Elements.	Secular Variation of Precession in N.P.D.	Annual Proper Motion in N.P.D. from Main or B.A.C.	Logarithms of e′	Logarithms of f′	Logarithms of g′	Logarithms of h′	Value of l′	No. in Bessel's Bradley. 1755.	No. in Lalande Fedorenko (F.) 1790, or British Association (B.A.) 1800.	Hour and No. in Piazzi. 1800.	No. in Groombridge. 1810.	No. in Weisse's Bessel. 1825.	No. in Argelander. 1830.	No. in Pond's 1112. 1830.	No. in First Cambridge Catalogue. 1830.	No. in Johnson's (St. Helena). 1830.	No. in Fallows. 1830.	No. in Struve. 1830.	No.
″	″	″					″			I.		I.							
−18·01	+0·203	..	9·86994	0·09768	0·84467	0·21493	110·765	..	3413 (B.A.)	..	..	790	..	..	..	..	..	..	121
17·98	0·301	+ 0·03	0·16080	9·56672	0·84628	0·21563	115·082	241	3393 (B.A.)	186	394	..	..	..	..	..	..	..	122
17·95	0·221	+ 0·11	9·96886	9·96117	0·84791	0·21633	114·272	248	3449 (B.A.)	197	..	..	..	59	..	..	..	165	123
17·95	0·221	+ 0·11	9·96900	9·96105	0·84791	0·21633	114·271	249	3451 (B.A.)	196	..	..	..	58	..	..	..	..	124
17·91	0·224	+ 0·11	9·97644	9·95076	0·85048	0·21743	114·250	252	3494 (B.A.)	202	..	..	..	60	..	..	..	..	125
−17·80	+0·227	− 0·01	9·96426	9·97244	0·85726	0·22028	113·357	262	3594 (B.A.)	214	..	..	..	61	..	..	..	..	126
17·73	0·347	− 0·02	0·17846	9·55711	0·86173	0·22213	112·856	260	334 (F.)	215	427	..	57	64	..	..	..	..	127
17·72	0·234	+ 0·11	9·98068	9·95054	0·86243	0·22241	113·314	..	3655 (B.A.)	222	..	..	..	..	..	..	..	..	128
17·67	0·221	+ 0·25	9·89575	0·06542	0·86495	0·22345	110·657	271	3688 (B.A.)	226	..	933	58	..	..	..	..	..	129
17·65	0·203	− 0·02	9·79309	0·18358	0·86627	0·22398	105·631	273	3721 (B.A.)	232	..	..	..	65	..	35	..	..	130
−17·57	+0·264	+ 0·06	0·07784	9·79084	0·87097	0·22588	113·676	276	3760 (B.A.)	236	447	..	59	67	42	..	..	187	131
17·57	0·264	+ 0·06	0·07784	9·79086	0·87102	0·22589	113·674	..	3764 (B.A.)	237	..	..	..	..	..	..	..	..	132
17·57	0·233	..	9·93671	0·01521	0·87123	0·22597	111·514	..	...	..	..	..	..	..	..	..	..	..	133
17·55	0·222	..	9·86982	0·09572	0·87210	0·22631	109·275	..	3788 (B.A.)	..	..	990	..	..	..	..	..	..	134
17·55	0·233	..	9·93762	0·01422	0·87217	0·22636	111·471	..	...	..	..	988	..	..	..	..	..	..	135
−17·54	+0·239	− 0·04	9·96979	9·97118	0·87276	0·22658	112·210	..	3790 (B.A.)	243	..	..	..	..	..	..	..	..	136
17·40	0·251	+ 0·15	9·99682	9·93641	0·88081	0·22975	112·035	287	3870 (B.A.)	253	..	..	61	68	43	..	..	193	137
17·32	0·267	+ 0·05	0·05158	9·85326	0·88562	0·23162	112·179	290	3934 (B.A.)	260	..	..	62	69	..	..	..	..	138
17·24	0·254	0·00	9·97964	9·96496	0·88974	0·23320	111·004	296	3988 (B.A.)	267	..	..	..	..	..	..	..	..	139
17·18	0·302	+ 0·16	0·12100	9·73232	0·89333	0·23455	111·181	299	4020 (B.A.)	II. 3	467	..	64	..	..	..	..	..	140
−17·15	+0·259	− 0·01	9·98936	9·95418	0·89501	0·23519	110·718	303	4063 (B.A.)	11	..	..	..	..	..	..	..	..	141
17·12	0·248	+ 0·04	9·92670	0·03281	0·89656	0·23577	109·439	306	4074 (B.A.)	16	..	II. 65	..	71	44	..	34	..	142
17·04	0·256	..	9·95299	0·00291	0·90109	0·23745	109·650	..	...	..	..	..	..	..	..	..	..	..	143
17·02	0·259	..	9·96313	9·99084	0·90181	0·23772	109·767	..	...	..	..	..	..	..	..	..	..	..	144
17·00	0·260	..	9·96384	9·99048	0·90339	0·23831	109·656	..	4179 (B.A.)	..	..	109	..	..	..	..	..	..	145
−16·99	+0·282	+ 0·23	0·05408	9·86424	0·90389	0·23850	110·483	317	4170 (B.A.)	34	..	..	66	..	..	..	..	..	146
16·92	0·241	+ 0·14	9·84714	0·11519	0·90768	0·23988	106·689	321	4248 (B.A.)	47	..	140	..	..	..	..	..	..	147
16·90	0·268	+ 0·01	9·98583	9·96483	0·90856	0·24020	109·560	320	4254 (B.A.)	49	..	..	..	72	..	..	..	..	148
16·81	0·248	+ 0·23	9·86481	0·09791	0·91347	0·24196	106·891	329	4321 (B.A.)	56	..	..	..	..	..	39	36	221	149
16·72	0·271	..	9·96904	9·98905	0·91811	0·24362	108·595	..	...	..	..	..	..	..	..	..	..	..	150
−16·69	+0·256	+ 0·05	9·88292	0·08001	0·91976	0·24421	107·006	333	...	69	..	221	..	..	..	..	..	..	151
16·57	0·227	− 0·56	9·74374	0·19954	0·92581	0·24634	102·362	..	4458 (B.A.)	..	..	..	..	..	..	..	..	..	152
16·56	0·271	+ 0·05	9·93962	0·02411	0·92622	0·24648	107·595	338	4449 (B.A.)	76	..	268	..	..	46	..	38	..	153
16·55	0·405	..	0·18974	9·64519	0·92691	0·24672	105·995	..	...	..	..	..	..	..	..	..	..	..	154
16·55	0·405	+ 0·02	0·18974	9·64519	0·92691	0·24672	105·995	332	{ 400 (F.) 4412 (B.A.) }	72	511	..	..	75	..	..	..	231	155
−16·55	+0·405	..	0·18977	9·64523	0·92695	0·24674	105·989	..	...	..	..	..	..	..	..	..	..	..	156
16·39	0·274	+ 0·02	9·92870	0·03686	0·93486	0·24948	106·838	347	4557 (B.A.)	94	..	329	..	77	47	..	..	..	157
16·36	1·313	..	0·24314	9·58649	0·93657	0·25006	101·760	..	382 (F.)	..	..	..	..	..	..	..	..	..	158
16·27	0·290	+ 0·09	9·98091	9·98304	0·94107	0·25159	106·935	351	4636 (B.A.)	101	..	..	..	..	..	..	..	..	159
16·26	0·285	..	9·96038	0·00562	0·94150	0·25173	106·732	..	...	..	..	383	..	..	..	..	..	..	160

The magnitudes of Stars taken from Argelander are marked with Asterisks. Other magnitudes are taken in the order of preference from the British Association Catalogue of 8377 Stars; from the Catalogue of Lalande published by the British Association; from Weisse's *Catalogus Stellarum ex Zonis Regiomontanis*; or, for the variable stars, from Mr. Pogson's lists in the "Radcliffe Observations, 1854 and 1856." The authorities for any remaining magnitudes are given in the Notes.

No.	Magnitude.	Star's Name.	Mean Right Ascension, 1860, Jan. 1, from Observations, 1854 to 1860.	Mean Year and Fraction of Year.	Number of Observations.	Annual Precession in R.A. for 1860, from Peters' Elements.	Secular Variation of Precession in R.A.	Annual Proper Motion in R.A. from Main or B.A.C.	Logarithms of e	f	g	h	Value of l	Mean North Polar Distance, 1860, Jan. 1, from Observations, 1854 to 1860.	Mean Year and Fraction of Year.	Number of Observations.
			h m s			s	s	s					s	° ′ ″		
161	5·6	Bradley 348	2. 24. 48·49	1857·2	3	+ 5·532	+0·2024	− 0·001	0·13862	0·12346	1·48475	0·13595	71·553	17. 47. 52·73	1858·8	10
162	6·7	Piazzi II. 118	2. 27. 39·51	1854·1	2	3·169	+0·0112	+ 0·002	0·09818	0·09354	1·44977	0·08150	83·686	83. 8. 25·29	1854·1	2
163	9	W.B. II. 453	2. 27. 46·56	1858·1	1	3·160	+0·0109	..	0·09815	0·09353	1·44962	0·08128	83·717	83. 47. 20·40	1858·1	1
164	7	79 Ceti	2. 28. 18·95	1854·9	2	3·013	+0·0065	− 0·007	0·09806	0·09353	1·44737	0·07778	84·140	94. 9. 29·46	1854·9	2
165	6·7	Piazzi II. 123	2. 28. 24·47	1856·8	29	3·160	+0·0109	+ 0·118	0·09812	0·09358	1·44963	0·08127	83·715	83. 47. 1·88	1856·8	30
166	5*	78 Ceti ν	2. 28. 31·76	1859·5	11	+ 3·142	+0·0103	− 0·008	0·09807	0·09356	1·44936	0·08085	83·770	85. 1. 12·01	1859·3	9
167	6*	31 Arietis	2. 29. 0·09	1855·1	8	3·242	+0·0136	+ 0·020	0·09838	0·09386	1·45089	0·08318	83·445	78. 9. 41·94	1855·1	8
168	6·5*	32 Arietis ν	2. 30. 52·35	1860·1	7	3·392	+0·0192	− 0·002	0·09921	0·09475	1·45319	0·08658	82·904	68. 38. 46·77	1860·1	7
169	4*	82 Ceti δ	2. 32. 18·56	1859·6	5	3·068	+0·0081	+ 0·003	0·09777	0·09381	1·44821	0·07909	83·985	90. 16. 40·16	1859·7	3
170	8·9	Radcliffe 745	2. 32. 44·27	1858·7	4	26·421	+10·7626	..	† ...	...	...	...	...	2. 1. 34·47	1858·3	5
171	5·4*	83 Ceti ε	2. 32. 47·61	1859·5	4	+ 2·889	+0·0037	+ 0·011	0·09817	0·09420	1·44544	0·07497	84·425	102. 28. 7·32	1859·5	4
172	6	Bradley 366	2. 32. 50·13	1857·0	4	5·042	+0·1350	− 0·004	0·12560	0·11612	1·47772	0·12215	74·783	22. 46. 26·34	1857·1	12
173	6·5*	34 Arietis μ	2. 34. 28·74	1859·5	6	3·366	+0·0179	− 0·001	0·09873	0·09487	1·45280	0·08578	83·017	70. 35. 15·16	1859·5	6
174	6	Bradley 381	2. 34. 56·98	1854·1	2	3·222	+0·0128	− 0·001	0·09789	0·09425	1·45058	0·08253	83·522	79. 51. 28·18	1854·1	3
175	6*	14 Persei	2. 34. 59·09	1856·4	1	3·872	+0·0417	− 0·002	0·10446	0·09958	1·46047	0·09680	80·871	46. 18. 2·62	1855·8	1
176	5*	35 Arietis	2. 35. 14·62	1854·9	5	+ 3·501	+0·0233	− 0·002	0·09981	0·09585	1·45486	0·08871	82·501	62. 53. 27·77	1854·9	5
177	..	Ceti γ¹	2. 36. 2·88	1856·1	1	3·111	+0·0093	..	0·09756	0·09412	1·44887	0·08005	83·860	87. 21. 19·51	1856·1	1
178	3·4*	86 Ceti γ²	2. 36. 2·95	1856·6	56	3·111	+0·0093	− 0·011	0·09756	0·09412	1·44887	0·08005	83·860	87. 21. 23·53	1856·4	38
179	..	Groombridge 551	2. 36. 50·09	1860·0	4	4·046	+0·0515	..	0·10682	0·10186	1·46309	0·10021	80·078	40. 56. 25·37	1860·0	4
180	5*	38 Arietis	2. 37. 20·16	1855·8	6	3·250	+0·0136	+ 0·008	0·09784	0·09454	1·45102	0·08308	83·432	78. 8. 44·41	1855·8	6
181	4*	87 Ceti μ	2. 37. 22·66	1855·2	5	+ 3·214	+0·0124	+ 0·017	0·09770	0·09442	1·45047	0·08230	83·549	80. 28. 45·73	1855·3	4
182	4·5*	1 Eridani τ¹	2. 38. 34·25	1859·3	4	2·776	+0·0020	+ 0·026	0·09842	0·09518	1·44366	0·07267	84·631	109. 10. 2·65	1859·3	4
183	7	Groombridge 554	2. 38. 56·52	1854·1	3	4·361	+0·0714	..	0·11152	0·10623	1·46776	0·10629	78·589	33. 33. 17·00	1854·1	3
184	6·7	Groombridge 556	2. 39. 12·74	1854·1	2	4·365	+0·0716	..	0·11153	0·10630	1·46783	0·10632	78·575	33. 30. 13·24	1854·1	2
185	6	40 Arietis	2. 40. 41·52	1856·2	7	3·347	+0·0168	+ 0·005	0·09812	0·09522	1·45251	0·08502	83·111	72. 18. 6·97	1856·2	8
186	6·5*	42 Arietis π	2. 41. 29·07	1855·6	4	+ 3·335	+0·0163	− 0·002	0·09798	0·09522	1·45232	0·08473	83·156	73. 7. 13·24	1855·6	4
187	4*	41 Arietis	2. 41. 44·99	1860·7	1	3·508	+0·0228	+ 0·003	0·09926	0·09636	1·45496	0·08831	82·524	63. 19. 8·56	1860·7	1
188	5·4*	16 Persei	2. 41. 45·55	1859·3	3	3·743	+0·0333	+ 0·020	0·10181	0·09853	1·45854	0·09317	81·554	52. 15. 35·07	1859·3	3
189	6*	43 Arietis σ	2. 43. 46·07	1857·5	40	3·299	+0·0149	− 0·002	0·09762	0·09522	1·45176	0·08387	83·286	75. 29. 50·26	1857·2	30
190	5·4*	2 Eridani τ²	2. 44. 41·35	1859·7	4	2·724	+0·0016	− 0·003	0·09829	0·09594	1·44285	0·07193	84·700	111. 34. 59·43	1859·7	4
191	7	Piazzi II. 203	2. 45. 24·27	1854·1	4	+ 3·324	+0·0157	+ 0·008	0·09762	0·09545	1·45215	0·08433	83·208	74. 5. 21·27	1854·1	4
192	6·7	Bradley 410	2. 48. 44·79	1854·1	3	3·195	+0·0116	+ 0·004	0·09686	0·09524	1·45018	0·08163	83·619	82. 11. 3·07	1854·1	3
193	6	47 Arietis	2. 50. 4·87	1859·7	1	3·403	+0·0180	+ 0·016	0·09772	0·09621	1·45336	0·08565	82·959	69. 53. 43·54	1859·7	1
194	4·5*	48 Arietis ε	2. 51. 12·77	1856·7	10	3·417	+0·0184	− 0·001	0·09772	0·09638	1·45357	0·08586	82·915	69. 13. 19·90	1856·6	13
195	5·6*	5 Eridani	2. 52. 37·26	1854·1	3	3·024	+0·0073	+ 0·001	0·09646	0·09540	1·44753	0·07825	84·075	93. 1. 28·54	1854·1	3
196	3*	23 Persei γ	2. 54. 40·77	1855·5	6	+ 4·295	+0·0593	+ 0·001	0·10722	0·10599	1·46680	0·10171	79·338	37. 3. 42·76	1855·5	6
197	2·3*	92 Ceti α	2. 54. 57·83	1856·8	57	3·129	+0·0098	− 0·002	0·09631	0·09559	1·44916	0·08026	83·808	86. 27. 42·81	1856·6	44
198	6	Piazzi II. 248	2. 55. 35·46	1854·9	2	2·566	+0·0007	+ 0·017	0·09855	0·09783	1·44037	0·06959	84·892	118. 37. 47·52	1854·9	2
199	4*	25 Persei ρ	2. 56. 13·06	1854·8	5	3·806	+0·0331	+ 0·013	0·10074	0·10005	1·45948	0·09267	81·483	51. 42. 18·88	1854·8	5
200	4·3*	11 Eridani τ³	2. 56. 13·26	1855·0	4	2·655	+0·0016	− 0·012	0·09778	0·09720	1·44177	0·07132	84·768	114. 10. 31·16	1855·0	4

161. Identical with Schwerd 132.
170. The magnitude is taken from Radcliffe. Identical with Schwerd 129.
181. The designation "87 Ceti μ" has been withdrawn from this star in the B.A.C., and the star marked as within the limits of the constellation Aries.
198. Identical with Lacaille 963.
200. Identical with Lacaille 968.
† For No. 170 log. e = 0·42873, log. f = 0·37383, log. g = 1·71114, log. h. = 0·42859, l = − 44^s·992.

Annual Precession in N.P.D. for 1860, from Peters' Elements.	Secular Variation of Precession in N.P.D.	Annual Proper Motion in N.P.D. from Main or B.A.C.	Logarithms of e′	f′	g′	h′	Value of l′	No. in Bessel's Bradley. 1755.	No. in Lalande Fedorenko (F.) 1790, or British Association (B.A.) 1800.	Hour and No. in Piazzi. 1800.	No. in Groombridge. 1810.	No. in Weisse's Bessel. 1825.	No. in Argelander. 1830.	No. in Pond's 1112. 1830.	No. in First Cambridge Catalogue. 1830.	No. in Johnson's (St. Helena). 1830.	No. in Fallows. 1830.	No. in Struve. 1830.	No.
″	″	″					″			II.		II.							
−16·19	+0·484	− 0·01	0·21208	9·63513	0·94525	0·25300	103·125	348	416 (F.)	97	524	..	..	78	..	..	..	..	161
16·04	0·285	+ 0·12	9·92480	0·04313	0·95256	0·25543	105·591	..	4780 (B.A.)	118	..	..	..	..	..	..	43	..	162
16·03	0·284	..	9·92101	0·04667	0·95281	0·25551	105·532	..	...	..	..	453	..	..	..	..	..	..	163
16·00	0·272	+ 0·42	9·85950	0·09959	0·95423	0·25598	104·594	363	4810 (B.A.)	124	..	468	69	..	..	..	..	..	164
16·00	0·285	− 1·31	9·92111	0·04674	0·95439	0·25603	105·428	..	4803 (B.A.)	123	..	464	..	..	..	..	..	..	165
−15·99	+0·284	+ 0·03	9·91387	0·05337	0·95478	0·25615	105·324	362	...	125	..	472	..	80	48	..	..	251	166
15·97	0·293	+ 0·05	9·95395	0·01568	0·95593	0·25654	105·622	364	4828 (B.A.)	129	..	..	70	..	49	..	..	..	167
15·87	0·310	+ 0·02	0·00800	9·96000	0·96071	0·25809	105·480	367	4886 (B.A.)	136	..	..	..	..	..	..	..	..	168
15·79	0·283	+ 0·03	9·88258	0·08059	0·96440	0·25929	104·351	372	4927 (B.A.)	144	..	547	..	81	..	44	44	..	169
15·77	2·387	..	0·25573	9·61696	0·96499	0·25949	98·093	..	...	..	..	..	..	..	..	..	..	..	170
−15·76	+0·267	+ 0·23	9·80808	0·13661	0·96558	0·25968	103·144	375	4949 (B.A.)	149	..	561	71	82	..	45	..	..	171
15·76	0·462	+ 0·04	0·20477	9·67707	0·96567	0·25971	101·505	366	{433 (F.) 4899 (B.A.)}	..	537	..	..	..	..	..	..	..	172
15·67	0·313	+ 0·05	9·99922	9·97325	0·96990	0·26106	104·738	377	4992 (B.A.)	153	..	..	..	..	..	..	..	..	173
15·64	0·301	+ 0·02	9·94606	0·02634	0·97108	0·26144	104·486	381	5006 (B.A.)	156	..	600	..	..	..	..	..	..	174
15·64	0·360	+ 0·01	0·12015	9·82036	0·97127	0·26147	103·622	376	4995 (B.A.)	154	546	..	..	..	..	..	..	..	175
−15·63	+0·327	+ 0·03	0·04120	9·92677	0·97186	0·26168	104·475	380	5009 (B.A.)	157	..	..	..	84	..	..	..	..	176
15·58	0·292	..	9·90069	0·06598	0·97390	0·26233	103·971	..	...	..	..	..	..	..	..	..	..	..	177
15·58	0·292	+ 0·19	9·90069	0·06598	0·97390	0·26233	103·971	383	5045 (B.A.)	161	..	616	73	85	51	..	..	266	178
15·54	0·380	..	0·14404	9·78860	0·97588	0·26295	102·647	..	...	..	551	..	..	..	..	..	..	..	179
15·51	0·307	+ 0·10	9·95689	0·01752	0·97715	0·26336	104·102	386	5075 (B.A.)	166	..	634	..	..	52	..	46	..	180
−15·51	+0·304	+ 0·07	9·94290	0·03026	0·97723	0·26339	104·040	387	5079 (B.A.)	167	..	636	74	86	53	..	..	..	181
15·44	0·265	− 0·03	9·76388	0·16221	0·98028	0·26434	101·749	390	5130 (B.A.)	175	..	..	75	..	..	..	48	..	182
15·42	0·413	..	0·17403	9·74748	0·98121	0·26463	101·228	..	5095 (B.A.)	..	554	..	..	..	..	..	..	..	183
15·41	0·414	..	0·17444	9·74768	0·98189	0·26484	101·146	..	5109 (B.A.)	..	556	..	..	..	..	..	..	..	184
15·33	0·322	− 0·07	9·99242	9·98573	0·98565	0·26601	103·504	393	5184 (B.A.)	182	..	..	..	..	..	..	..	..	185
−15·28	+0·322	− 0·02	9·98807	9·99067	0·98767	0·26664	103·351	397	5209 (B.A.)	185	..	..	..	90	55	..	..	276	186
15·27	0·338	+ 0·13	0·04281	9·93360	0·98835	0·26686	103·055	395	5216 (B.A.)	186	..	..	..	92	..	..	..	277	187
15·27	0·361	+ 0·08	0·09819	9·86582	0·98835	0·26686	102·403	394	5204 (B.A.)	183	..	..	..	91	..	..	..	..	188
15·15	0·322	+ 0·05	9·97497	0·00470	0·99345	0·26842	102·925	400	5283 (B.A.)	192	..	744	..	..	56	..	49	..	189
15·10	0·268	+ 0·01	9·74374	0·16936	0·99576	0·26912	100·878	404	5321 (B.A.)	202	..	..	..	94	..	52	50	..	190
−15·06	+0·327	+ 0·07	9·98403	9·99744	0·99757	0·26966	102·600	..	5326 (B.A.)	203	..	..	..	..	..	..	..	..	191
14·86	0·319	+ 0·09	9·93520	0·04109	1·00602	0·27221	102·027	410	5424 (B.A.)	215	..	845	..	..	..	..	..	..	192
14·78	0·342	+ 0·03	0·01064	9·97622	1·00938	0·27320	101·554	412	5453 (B.A.)	218	..	..	..	..	..	..	..	..	193
14·71	0·345	+ 0·02	0·01511	9·97297	1·01223	0·27403	101·295	415	5486 (B.A.)	224	..	..	..	97	57	..	..	294	194
14·63	0·308	− 0·01	9·86374	0·09286	1·01573	0·27507	101·230	423	5546 (B.A.)	231	..	916	..	..	..	..	..	..	195
−14·51	+0·439	+ 0·01	0·17307	9·79429	1·02091	0·27658	97·337	422	5565 (B.A.)	234	600	..	..	98	59	..	..	..	196
14·49	0·322	+ 0·11	9·90822	0·06277	1·02162	0·27678	100·977	428	5613 (B.A.)	244	..	963	80	100	60	..	52	300	197
14·45	0·266	+ 0·28	9·68735	0·18901	1·02317	0·27723	99·206	..	5638 (B.A.)	248	..	..	..	..	..	..	..	..	198
14·41	0·392	+ 0·13	0·11076	9·87770	1·02474	0·27768	98·787	429	5631 (B.A.)	246	607	..	..	101	..	..	..	..	199
14·41	0·275	+ 0·07	9·71542	0·17447	1·02474	0·27768	99·571	434	5672 (B.A.)	249	..	..	..	103	..	56	53	..	200

The magnitudes of Stars taken from Argelander are marked with Asterisks. Other magnitudes are taken in the order of preference from the British Association Catalogue of 8377 Stars; from the Catalogue of Lalande published by the British Association; for Weisse's *Catalogus Stellarum ex Zonis Regiomontanis*; or, for the variable stars, from Mr. Pogson's lists in the "Radcliffe Observations, 1854 and 1856." The authorities for any remaining magnitudes are given in the Notes.

No.	Magnitude.	Star's Name.	Mean Right Ascension, 1860, Jan. 1, from Observations, 1854 to 1860.	Mean Year and Fraction of Year.	Number of Observations.	Annual Precession in R.A. for 1860, from Peters' Elements.	Secular Variation of Precession in R.A.	Annual Proper Motion in R.A. from Main or B.A.C.	Logarithms of e	Logarithms of f	Logarithms of g	Logarithms of h	Value of l	Mean North Polar Distance, 1860, Jan. 1, from Observations, 1854 to 1860.	Mean Year and Fraction of Year.	Number of Observations.
			h m s			s	s	s					s	° ′ ″		
201	6*	10 Eridani .... ρ^3	2. 57. 24·09	1854·1	3	+ 2·938	+0·0057	+ 0·007	0·09628	0·09589	1·44620	0·07671	84·262	98. 9. 3·49	1854·1	3
202	4*	Persei .... ι	2. 58. 58·95	1860·0	3	4·157	+0·0497	+ 0·129	0·10459	0·10436	1·46475	0·09852	80·046	40. 55. 30·86	1860·0	3
203	Var.*	26 Persei.......... β	2. 59. 4·27	1859·9	3	3·874	+0·0355	− 0·002	0·10112	0·10094	1·46050	0·09353	81·249	49. 35. 12·62	1859·9	3
204	6	53 Arietis............	2. 59. 33·05	1855·1	1	3·367	+0·0161	− 0·005	0·09674	0·09667	1·45281	0·08449	83·120	72. 39. 46·90	1855·1	1
205	4·5*	27 Persei .... κ	3. 0. 4·09	1855·6	3	3·996	+0·0410	+ 0·016	0·10239	0·10240	1·46233	0·09553	80·760	45. 40. 34·52	1855·8	1
206	7	Piazzi II. 261.......	3. 1. 18·86	1860·5	4	+ 3·422	+0·0178	+ 0·005	0·09689	0·09709	1·45366	0·08539	82·949	69. 46. 36·69	1860·5	4
207	5·6	Bradley 431	3. 2. (40.)	..	..	7·287	+0·3510	− 0·025	0·14939	0·15092	1·50902	0·14777	65·471	12. 47. 10·61	1857·9	2
208	4·5*	57 Arietis .... δ	3. 3. 37·74	1857·6	51	3·406	+0·0171	+ 0·010	0·09661	0·09716	1·45342	0·08499	83·012	70. 48. 20·26	1857·7	50
209	5·6*	94 Ceti	3. 5. 37·91	1854·1	2	3·043	+0·0078	+ 0·014	0·09552	0·09633	1·44782	0·07868	84·026	91. 43. 21·02	1854·1	2
210	6	Groombridge 628....	3. 6. (42.)	..	..	5·634	+0·1514	..	0·12350	0·12603	1·48621	0·12074	73·586	20. 47. 11·51	1860·0	2
211	4·5*	58 Arietis .... ζ	3. 6. 51·60	1858·4	12	+ 3·436	+0·0177	− 0·006	0·09650	0·09754	1·45387	0·08533	82·933	69. 28. 38·09	1858·4	12
212	5	Bradley 448	3. 7. 42·82	1859·2	4	5·180	+0·1119	− 0·015	0·11670	0·11919	1·47971	0·11335	75·727	24. 51. 51·44	1858·3	30
213	9	W. B. III. 139	3. 8. 41·56	1856·0	4	3·304	+0·0138	..	0·09573	0·09699	1·45185	0·08305	83·346	76. 40. 8·19	1856·0	4
214	7·8	Bradley 456	3. 8. 43·56	1854·1	2	2·912	+0·0055	+ 0·001	0·09549	0·09676	1·44578	0·07649	84·305	99. 17. 29·85	1854·1	2
215	8	W.B. III. 168.......	3. 10. 8·47	1856·1	4	3·306	+0·0138	..	0·09562	0·09709	1·45187	0·08302	83·348	76. 40. 9·49	1856·1	4
216	6*	95 Ceti	3. 11. 12·73	1854·1	3	+ 3·047	+0·0079	+ 0·020	0·09510	0·09671	1·44789	0·07878	84·015	91. 26. 34·67	1854·1	3
217	8	Lalande 6129	3. 12. 4·98	1854·1	1	3·376	+0·0156	..	0·09574	0·09755	1·45295	0·08409	83·146	73. 0. 44·35	1854·1	1
218	5*	61 Arietis .... τ^1	3. 13. 8·99	1858·1	17	3·448	+0·0175	− 0·001	0·09601	0·09801	1·45405	0·08519	82·931	69. 21. 37·78	1858·0	16
219	6*	97 Ceti............. κ^2	3. 13. 47·63	1854·1	3	3·127	+0·0095	+ 0·005	0·09492	0·09690	1·44913	0·08007	83·830	86. 49. 52·87	1854·1	3
220	2*	33 Persei............ α	3. 14. 20·72	1857·1	40	4·240	+0·0484	+ 0·002	0·10303	0·10611	1·46598	0·09739	80·015	40. 38. 26·72	1857·1	41
221	9	Groombridge 655....	3. 15. 14·41	1860·0	4	+ 4·219	+0·0470	..	0·10264	0·10588	1·46567	0·09693	80·119	41. 14. 52·84	1860·0	4
222	6*	64 Arietis............	3. 16. 2·87	1854·1	1	3·526	+0·0196	− 0·003	0·09620	0·09871	1·45524	0·08624	82·698	65. 46. 30·10	1854·1	1
223	..	Gr. Cat. 1850, No. 217	3. 16. 3·72	1855·1	1	4·245	+0·0480	..	0·10279	0·10624	1·46605	0·09720	80·030	40. 41. 57·42	1855·1	1
224	7·8	Groombridge 660....	3. 16. 5·77	1855·2	5	4·243	+0·0479	..	0·10277	0·10623	1·46603	0·09717	80·036	40. 45. 10·68	1855·2	4
225	6*	65 Arietis............	3. 16. 22·17	1859·9	5	3·446	+0·0172	− 0·004	0·09572	0·09820	1·45402	0·08498	82·955	69. 41. 47·51	1859·9	5
226	4·3*	1 Tauri .... o	3. 17. 16·96	1856·6	35	+ 3·224	+0·0115	0·000	0·09480	0·09730	1·45062	0·08153	83·591	81. 27. 59·87	1856·4	33
227	7·8	Piazzi III. 52.......	3. 17. 39·94	1860·0	3	4·245	+0·0474	..	0·10252	0·10630	1·46605	0·09694	80·065	40. 53. 35·30	1860·0	3
228	5·4*	Piazzi III. 51.......	3. 17. 45·70	1856·9	1	4·793	+0·0774	+ 0·005	0·10900	0·11383	1·47411	0·10497	77·790	30. 33. 5·85	1855·5	7
229	5*	34 Persei	3. 19. 22·40	1860·0	4	4·249	+0·0470	+ 0·005	0·10228	0·10643	1·46611	0·09674	80·081	40. 58. 46·90	1860·0	4
230	4·3*	2 Tauri .... ξ	3. 19. 35·16	1855·4	5	3·238	+0·0117	+ 0·002	0·09465	0·09749	1·45084	0·08170	83·580	80. 45. 30·98	1855·7	4
231	7	W.B. III. 334.......	3. 19. 36·30	1856·0	6	+ 3·294	+0·0130	..	0·09481	0·09767	1·45169	0·08253	83·412	77. 45. 23·07	1856·0	6
232	6	Bradley 471	3. 19. (56.)	..	..	6·394	+0·2039	..	0·12889	0·13777	1·49684	0·12680	70·881	17. 7. 59·59	1858·0	2
233	6	Groombridge 642....	3. 21. 1·52	1860·7	2	18·527	+3·1818	..	0·26555	0·29498	1·63876	0·26521	16·340	3. 48. 16·27	1860·7	2
234	..	Gr. Cat. 1850, No. 226	3. 21. 3·30	1857·8	4	3·240	+0·0117	..	0·09454	0·09759	1·45086	0·08170	83·559	80. 43. 13·90	1857·8	4
235	8	Groombridge 689....	3. 21. 19·99	1860·0	3	4·255	+0·0466	..	0·10203	0·10659	1·46620	0·09653	80·096	41. 1. 38·88	1860·0	3
236	7	Groombridge 693....	3. 21. 48·81	1860·0	3	+ 4·255	+0·0464	..	0·10195	0·10661	1·46619	0·09646	80·106	41. 4. 55·08	1860·0	3
237	..	Gr. Cat. 1850, No. 227	3. 22. (33.)	..	..	3·300	+0·0130	..	0·09458	0·09787	1·45179	0·08254	83·405	77. 34. 48·46	1856·0	2
238	5*	4 Tauri .... s	3. 22. 45·63	1854·1	2	3·270	+0·0123	0·000	0·09447	0·09778	1·45133	0·08210	83·486	79. 8. 49·29	1854·1	2
239	4*	5 Tauri .... f	3. 23. 8·89	1857·9	22	3·301	+0·0130	+ 0·002	0·09453	0·09792	1·45180	0·08253	83·405	77. 32. 45·40	1857·0	21
240	5*	17 Eridani	3. 23. 40·41	1859·0	4	2·971	+0·0066	+ 0·004	0·09420	0·09761	1·44671	0·07770	84·181	95. 33. 28·01	1859·0	4

Annual Precession in N.P.D. for 1860, from Peters' Elements.	Secular Variation of Precession in N.P.D.	Annual Proper Motion in N.P.D. from Main or B.A.C.	Logarithms of c′	Logarithms of f′	Logarithms of g′	Logarithms of h′	Value of l′	No. in Bessel's Bradley. 1755.	No. in Lalande Fedorenko (F.) 1790, or British Association (B.A.) 1800.	Hour and No. in Piazzi. 1800.	No. in Groombridge. 1810.	Hour and No. in Weisse's Bessel. 1825.	No. in Argelander. 1830.	No. in Pond's 1112. 1830.	No. in First Cambridge Catalogue. 1830.	No. in Johnson's (St. Helena). 1830.	No. in Fallows. 1830.	No. in Struve. 1830.	No.
″	″	″					″			II.		II.							
−14·34	+0·306	0·00	9·82698	0·11440	1·02769	0·27854	100·414	435	5699 (B.A.)	252	..	1011	..	104	..	57	..	..	201
14·25	0·433	0·00	0·16068	9·82165	1·03155	0·27963	96·727	..	5705 (B.A.)	253	613	..	81	105	..	..	..	..	202
14·24	0·404	− 0·01	0·12261	9·86905	1·03184	0·27971	97·835	436	5717 (B.A.)	254	615	..	..	106	62	..	..	309	203
14·21	0·353	+ 0·01	9·99830	9·99516	1·03304	0·28006	99·753	439	5742 (B.A.)	257	..	..	..	..	..	..	..	..	204
14·18	0·418	+ 0·15	0·14101	9·84889	1·03432	0·28042	97·087	438	5737 (B.A.)	256	617	..	82	107	..	..	..	..	205
−14·10	+0·361	+ 0·25	0·01641	9·98093	1·03740	0·28129	99·254	..	...	261	..	..	..	..	..	..	..	..	206
14·02	0·766	+ 0·04	0·25566	9·71475	1·04078	0·28223	90·934	431	{ 510 (F.) 5726 (B.A.) }	255	616	..	..	108	..	..	..	..	207
13·96	0·363	0·00	0·01132	9·98730	1·04316	0·28290	98·850	446	5884 (B.A.)	III. 2	..	..	84	109	63	..	..	..	208
13·83	0·327	+ 0·08	9·87192	0·08660	1·04809	0·28426	99·357	450	...	8	..	III. 82	85	..	..	..	..	..	209
13·76	0·604	..	0·23707	9·74703	1·05073	0·28499	91·210	..	{ 518 (F.) 5916 (B.A.) }	..	628	..	..	..	..	..	..	..	210
−13·75	+0·371	+ 0·07	0·02065	9·98214	1·05114	0·28511	98·089	451	5983 (B.A.)	11	..	..	..	111	65	..	..	..	211
13·70	0·558	+ 0·03	0·22539	9·76370	1·05318	0·28566	91·659	448	{ 528 (F.) 5954 (B.A.) }	7	634	..	..	..	..	..	..	..	212
13·63	0·359	..	9·97630	0·01838	1·05560	0·28631	98·273	..	6036 (B.A.)	..	..	139	..	..	..	..	..	..	213
13·63	0·317	+ 0·09	9·81525	0·11716	1·05574	0·28635	98·939	456	6048 (B.A.)	20	..	144	86	..	..	..	..	..	214
13·54	0·362	..	9·97676	0·01883	1·05914	0·28727	98·002	..	6088 (B.A.)	..	..	168	..	..	..	..	..	..	215
−13·47	+0·335	+ 0·09	9·87361	0·08529	1·06180	0·28799	98·531	461	6117 (B.A.)	31	..	186	87	..	..	..	..	..	216
13·41	0·372	..	0·00091	0·00201	1·06392	0·28857	97·342	..	6129 (B.A.)	..	..	..	..	..	..	..	..	..	217
13·35	0·381	+ 0·03	0·02408	9·98477	1·06652	0·28925	96·789	465	...	40	..	..	..	..	..	..	..	..	218
13·30	0·347	+ 0·05	9·90741	0·06571	1·06805	0·28967	97·971	468	6191 (B.A.)	44	..	238	..	..	..	..	..	..	219
13·27	0·470	+ 0·05	0·17216	9·84384	1·06939	0·29001	92·562	464	548 (F.)	41	650	..	89	114	67	..	..	330	220
−13·21	+0·469	..	0·17017	9·84809	1·07156	0·29059	92·425	..	6205 (B.A.)	..	655	..	..	..	..	..	..	..	221
13·15	0·394	+ 0·07	0·04685	9·96894	1·07358	0·29111	95·792	472	6245 (B.A.)	49	..	..	..	..	..	..	..	..	222
13·15	0·473	..	0·17292	9·84690	1·07360	0·29113	92·110	..	...	..	..	..	..	..	..	..	..	..	223
13·15	0·473	..	0·17278	9·84708	1·07364	0·29114	92·114	..	...	..	660	..	..	..	..	..	..	..	224
13·13	0·386	+ 0·02	0·02333	9·98803	1·07431	0·29131	96·168	474	6257 (B.A.)	50	..	..	..	..	..	..	..	..	225
−13·07	+0·362	+ 0·10	9·94616	0·04269	1·07654	0·29189	97·061	477	6287 (B.A.)	55	..	294	..	117	..	..	..	..	226
13·05	0·476	..	0·17319	9·85021	1·07747	0·29214	91·713	..	560 (F.)	52	664	..	..	..	..	..	..	..	227
13·04	0·537	− 0·04	0·21317	9·80620	1·07770	0·29220	89·811	..	6264 (B.A.)	51	662	..	..	116	..	..	..	335	228
12·93	0·479	+ 0·06	0·17391	9·85319	1·08157	0·29325	91·267	478	{ 563 (F.) 6319 (B.A.) }	59	681	..	..	..	..	..	..	..	229
12·92	0·367	+ 0·05	9·95163	0·03999	1·08210	0·29334	96·605	481	6359 (B.A.)	63	..	335	..	119	68	..	..	..	230
−12·92	+0·373	..	9·97230	0·02667	1·08213	0·29335	96·340	..	6357 (B.A.)	..	..	334	..	..	..	..	..	..	231
12·90	0·720	+ 0·08	0·25626	9·76754	1·08292	0·29356	86·588	471	...	..	669	..	..	..	..	..	..	..	232
12·83	2·082	..	0·28735	9·74938	1·08517	0·29412	83·701	..	519 (F.)	..	642	..	..	..	..	..	..	..	233
12·82	0·369	..	9·95226	0·04015	1·08561	0·29424	96·342	..	...	..	..	..	..	..	..	..	..	..	234
12·80	0·483	..	0·17487	9·85642	1·08629	0·29441	90·761	..	567 (F.)	..	689	..	..	..	..	..	..	..	235
−12·77	+0·484	..	0·17493	9·85739	1·08745	0·29471	90·643	..	{ 570 (F.) 6397 (B.A.) }	..	693	..	..	..	..	..	..	..	236
12·72	0·378	..	9·97424	0·02679	1·08920	0·29517	95·783	..	...	..	..	..	..	..	69	.	..	..	237
12·71	0·375	+ 0·05	9·96355	0·03373	1·08972	0·29529	95·895	485	6454 (B.A.)	75	..	392	..	..	..	..	..	..	238
12·68	0·378	+ 0·03	9·97465	0·02682	1·09064	0·29553	95·668	486	6461 (B.A.)	77	..	..	..	121	70	..	57	..	239
12·64	0·342	+ 0·03	9·84061	0·10077	1·09187	0·29584	96·918	487	6495 (B.A.)	80	..	413	..	122	..	63	58	..	240

203. The limits of magnitude are 2·3 and 4·0; the period 2·86727 days.
207. Identical with Schwerd 164.
224. The magnitude is taken from Groombridge.
227. The magnitude is taken from Piazzi.
232. Bradley has no R.A. This star is the same as Schwerd 180.
233. This star is the same as Schwerd 176.
235. The magnitude is taken from Groombridge.

The magnitudes of Stars taken from Argelander are marked with Asterisks. Other magnitudes are taken in the order of preference from the British Association Catalogue of 8377 Stars; from the Catalogue of Lalande published by the British Association; from Weisse's *Catalogus Stellarum ex Zonis Regiomontanis*; or, for the variable stars, from Mr. Pogson's lists in the "Radcliffe Observations, 1854 and 1856." The authorities for any remaining magnitudes are given in the Notes.

No.	Magnitude.	Star's Name.	Mean Right Ascension, 1860, Jan. 1, from Observations, 1854 to 1860.	Mean Year and Fraction of Year.	Number of Observations.	Annual Precession in R.A. for 1860, from Peters' Elements.	Secular Variation of Precession in R.A.	Annual Proper Motion in R.A. from Main or B.A.C.	Logarithms of e	f	g	h	Value of l	Mean North Polar Distance, 1860, Jan. 1, from Observations, 1854 to 1860.	Mean Year and Fraction of Year.	Number of Observations.
			h m s			s	s	s					s	° ′ ″		
241	6*	6 Tauri ... t	3. 25. 1·73	1854·1	3	+ 3·235	+0·0114	+ 0·005	0·09420	0·09782	1·45079	0·08154	83·583	81. 6. 9·85	1854·1	3
242	6*	7 Tauri ...	3. 26. 9·48	1859·7	3	3·538	+0·0188	0·000	0·09531	0·09939	1·45542	0·08582	82·729	66. 0. 30·26	1860·0	2
243	6·5	Piazzi III. 87 ...	3. 26. 10·09	1860·4	2	3·400	+0·0151	− 0·021	0·09463	0·09854	1·45331	0·08385	83·143	72. 37. 45·38	1860·4	2
244	3*	18 Eridani ... ε	3. 26. 20·17	1856·9	31	2·889	+0·0054	− 0·067	0·09414	0·09796	1·44543	0·07654	84·339	99. 56. 4·68	1856·8	30
245	6	9 Tauri ...	3. 28. 44·46	1860·7	1	3·515	+0·0179	− 0·005	0·09494	0·09938	1·45507	0·08534	82·817	67. 15. 19·49	1860·7	1
246	4·5*	10 Tauri ...	3. 29. 43·81	1858·7	9	+ 3·071	+0·0082	− 0·015	0·09365	0·09790	1·44826	0·07915	83·980	90. 2. 43·27	1858·7	8
247	5·6	Piazzi III. 94 ...	3. 30. 2·45	1857·0	5	5·133	+0·0899	− 0·005	0·11013	0·11910	1·47904	0·10681	76·766	27. 14. 30·62	1856·6	9
248	..	......	3. 30. 41·40	1857·1	2	3·625	+0·0208	..	0·09537	0·10029	1·45675	0·08673	82·491	62. 30. 15·97	1857·1	2
249	6	11 Tauri ...	3. 32. 24·97	1857·9	23	3·568	+0·0189	− 0·002	0·09486	0·09994	1·45587	0·08585	82·683	65. 7. 35·90	1857·5	18
250	6*	12 Tauri ...	3. 32. 33·66	1854·8	3	3·121	+0·0090	− 0·006	0·09344	0·09809	1·44903	0·07984	83·873	87. 24. 3·89	1854·8	3
251	4*	38 Persei ... o	3. 35. 32·84	1858·4	15	+ 3·743	+0·0235	− 0·006	0·09562	0·10155	1·45853	0·08793	82·156	58. 9. 30·84	1857·8	18
252	4·5*	Camelopardali ... γ	3. 35. 38·47	1860·0	3	6·191	+0·1608	− 0·035	0·12059	0·13502	1·49403	0·11840	72·619	19. 6. 18·84	1858·0	5
253	4*	41 Persei ... ν	3. 35. 41·81	1856·5	1	4·050	+0·0337	− 0·006	0·09793	0·10472	1·46314	0·09185	81·113	47. 52.	..	..
254	7	14 Tauri ...	3. 35. 41·85	1857·9	1	3·449	+0·0156	+ 0·012	0·09397	0·09936	1·45406	0·08411	83·054	70. 46. 51·09	1857·9	1
255	9	W.B. III. 680 ...	3. 36. 5·76	1855·3	3	2·863	+0·0052	..	0·09339	0·09863	1·44502	0·07643	84·382	100. 57. 13·53	1855·3	3
256	5·6	16 Tauri ...	3. 36. 29·23	1859·3	4	+ 3·551	+0·0180	+ 0·002	0·09438	0·10005	1·45562	0·08539	82·762	66. 9. 15·84	1859·3	4
257	3*	23 Eridani ... δ	3. 36. 32·60	1858·0	12	2·876	+0·0054	− 0·008	0·09332	0·09861	1·44524	0·07662	84·358	100. 14. 23·47	1858·2	11
258	4*	17 Tauri ...	3. 36. 34·10	1856·8	20	3·547	+0·0179	0·000	0·09434	0·10002	1·45556	0·08533	82·775	66. 19. 48·99	1856·8	21
259	6*	Piazzi III. 138 ...	3. 36. 52·69	1854·9	2	2·863	+0·0053	+ 0·003	0·09332	0·09867	1·44502	0·07645	84·383	100. 55. 53·63	1854·8	1
260	5*	19 Tauri ...	3. 36. 52·78	1860·6	6	3·556	+0·0181	− 0·002	0·09436	0·10010	1·45569	0·08543	82·751	65. 58. 31·43	1860·6	6
261	5*	20 Tauri ...	3. 37. 30·12	1860·0	5	+ 3·554	+0·0180	− 0·001	0·09429	0·10012	1·45567	0·08538	82·760	66. 4. 22·99	1860·0	5
262	6·5	25 Eridani ...	3. 37. 47·14	1855·5	5	3·058	+0·0078	0·000	0·09299	0·09838	1·44805	0·07900	84·019	90. 44. 23·77	1855·5	5
263	5*	23 Tauri ...	3. 38. 1·33	1860·8	5	3·546	+0·0177	+ 0·003	0·09419	0·10009	1·45554	0·08523	82·789	66. 29. 28·08	1860·8	5
264	7	24 Tauri ...	3. 39. 2·17	1857·1	2	3·551	+0·0177	− 0·001	0·09412	0·10018	1·45562	0·08524	82·782	66. 19. 14·55	1856·1	1
265	3*	25 Tauri ... η	3. 39. 10·09	1857·1	67	3·551	+0·0177	− 0·001	0·09411	0·10019	1·45562	0·08524	82·782	66. 19. 51·93	1856·7	60
266	5*	30 Tauri ... e	3. 40. 35·96	1854·1	2	+ 3·280	+0·0116	+ 0·002	0·09300	0·09888	1·45147	0·08178	83·523	79. 17. 25·63	1854·1	2
267	8·9	W.B. III. 767 ...	3. 40. 42·91	1856·8	5	3·273	+0·0114	..	0·09297	0·09887	1·45137	0·08170	83·540	79. 38. 13·25	1856·8	5
268	4*	27 Eridani ... τ[6]	3. 40. 49·62	1859·8	4	2·591	+0·0031	− 0·007	0·09396	0·10030	1·44076	0·07310	84·775	113. 39. 57·61	1859·8	4
269	4*	27 Tauri ...	3. 40. 50·60	1858·8	11	3·552	+0·0176	− 0·001	0·09395	0·10029	1·45564	0·08516	82·789	66. 22. 40·94	1859·2	10
270	5·6	28 Tauri ...	3. 40. 51·82	1860·2	6	3·554	+0·0176	− 0·002	0·09396	0·10030	1·45567	0·08519	82·784	66. 17. 40·61	1860·2	6
271	7	Piazzi III. 162 ...	3. 40. 54·16	1856·1	2	+ 3·250	+0·0110	+ 0·015	0·09291	0·09881	1·45102	0·08141	83·596	80. 47. 19·17	1856·1	2
272	6·5	Piazzi III. 170 ...	3. 41. 54·39	1854·4	3	3·589	+0·0184	+ 0·015	0·09403	0·10060	1·45620	0·08556	82·689	64. 50. 48·44	1854·8	4
273	7	Bradley 536 ...	3. 45. 2·28	1854·1	2	3·042	+0·0075	..	0·09238	0·09881	1·44780	0·07881	84·063	91. 34. 17·36	1854·1	2
274	5	Piazzi III. 177 ...	3. 45. (5.)	..	..	5·223	+0·0840	− 0·016	0·10740	0·12080	1·48033	0·10435	76·912	27. 20. 35·99	1858·9	2
275	7·8	W.B. III. 909 ...	3. 47. 15·74	1854·1	1	3·006	+0·0070	..	0·09222	0·09895	1·44725	0·07839	84·137	93. 22. 10·69	1854·1	1
276	5*	32 Eridani ...	3. 47. 15·82	1854·1	3	+ 3·006	+0·0070	+ 0·007	0·09222	0·09895	1·44725	0·07839	84·137	93. 22. 17·37	1854·1	3
277	6	Lacaille 1273 ...	3. 48. 30·50	1860·1	3	2·473	+0·0028	− 0·001	0·09378	0·10157	1·43890	0·07213	84·903	118. 5. 9·21	1860·1	3
278	6*	32 Tauri ...	3. 48. 36·08	1855·1	3	3·528	+0·0162	+ 0·006	0·09308	0·10052	1·45526	0·08445	82·914	67. 55. 43·36	1855·1	3
279	6	33 Tauri ...	3. 48. 46·15	1857·1	7	3·544	+0·0165	+ 0·007	0·09314	0·10063	1·45551	0·08464	82·870	67. 14. 4·09	1857·1	10
280	6	Bradley 544 ...	3. 49. 56·53	1856·1	1	2·791	+0·0046	− 0·002	0·09235	0·09966	1·44390	0·07593	84·502	104. 0. 24·63	1856·1	1

264, 279. Bradley has no N.P.D.

268. This star is the same as Lacaille 1220.

273. Bradley has no R.A.

Annual Precession in N.P.D. for 1860, from Peters' Elements.	Secular Variation of Precession in N.P.D.	Annual Proper Motion in N.P.D. from Main or B.A.C.	Logarithms of e′	f′	g′	h′	Value of l′	No. in Bessel's Bradley. 1755.	No. in Lalande Fedorenko (F.) 1790, or British Association (B.A.) 1800.	Hour and No. in Piazzi. 1800.	No. in Groombridge. 1810.	Hour and No. in Weisse's Bessel. 1825.	No. in Argelander. 1830.	No. in Pond's 1112. 1830.	No. in First Cambridge Catalogue. 1830.	No. in Johnson's (St. Helena). 1830.	No. in Fallows. 1830.	No. in Struve. 1830.	No.
″	″	″					″			III.		III.							
−12·55	+0·373	+ 0·05	9·95036	0·04264	1·09509	0·29665	95·686	489	...	83	..	438	..	..	..	..	..	..	241
12·48	0·409	+ 0·07	0·05003	9·97635	1·09779	0·29733	93·666	491	6559 (B.A.)	86	..	..	..	..	..	..	..	352	242
12·47	0·394	+ 0·38	0·00839	0·00620	1·09783	0·29734	94·544	..	6565 (B.A.)	87	..	..	..	..	..	..	..	..	243
12·46	0·336	+ 0·04	9·80441	0·11634	1·09823	0·29744	96·751	493	6581 (B.A.)	89	..	470	90	124	..	64	..	..	244
12·30	0·410	+ 0·05	0·04348	9·98357	1·10390	0·29885	93·302	494	6641 (B.A.)	..	..	..	..	..	..	..	..	..	245
−12·23	+0·360	+ 0·52	9·88389	0·07938	1·10626	0·29943	95·709	497	6665 (B.A.)	100	..	542	92	126	..	66	..	..	246
12·21	0·599	− 0·08	0·23216	9·81882	1·10697	0·29961	85·671	..	6628 (B.A.)	94	716	..	..	..	..	..	..	..	247
12·16	0·426	..	0·07273	9·96379	1·10850	0·29998	92·157	..	...	..	..	..	..	..	..	..	..	358	248
12·04	0·421	+ 0·02	0·05789	9·97660	1·11258	0·30097	92·202	500	6732 (B.A.)	107	..	..	..	..	..	..	..	..	249
12·03	0·369	+ 0·01	9·90461	0·06923	1·11294	0·30105	95·044	503	6744 (B.A.)	110	..	601	..	..	..	..	..	..	250
−11·82	+0·446	− 0·03	0·09958	9·94889	1·11987	0·30273	90·323	..	6835 (B.A.)	123	..	..	..	129	..	..	..	..	251
11·82	0·735	+ 0·03	0·26045	9·80840	1·12006	0·30277	82·356	..	{ 594 (F.) 6746 (B.A.) }	111	724	..	..	..	..	..	..	..	252
11·81	0·482	+ 0·03	0·15241	9·90575	1·12020	0·30281	88·336	506	6822 (B.A.)	122	728	..	..	128	..	..	..	..	253
11·81	0·412	+ 0·02	0·02375	0·00267	1·12024	0·30282	92·406	507	6855 (B.A.)	125	..	..	..	..	..	..	..	..	254
11·78	0·343	..	9·79260	0·11780	1·12114	0·30303	95·610	..	...	..	..	680	..	..	..	..	..	..	255
−11·75	+0·425	+ 0·06	0·05335	9·98364	1·12208	0·30325	91·505	508	6875 (B.A.)	129	..	..	..	130	..	..	..	..	256
11·75	0·345	− 0·73	9·79865	0·11530	1·12223	0·30328	95·513	515	6899 (B.A.)	134	..	687	95	133	72	68	62	..	257
11·75	0·424	+ 0·04	0·05227	9·98447	1·12227	0·30329	91·517	509	6877 (B.A.)	130	..	..	..	131	..	..	..	371	258
11·73	0·344	+ 0·05	9·79239	0·11757	1·12299	0·30347	95·517	..	6912 (B.A.)	138	..	698	..	..	..	..	..	..	259
11·73	0·426	+ 0·06	0·05465	9·98312	1·12299	0·30347	91·390	511	...	132	..	..	..	132	..	..	..	372	260
−11·68	+0·426	+ 0·05	0·05431	9·98394	1·12444	0·30381	91·275	512	6911 (B.A.)	136	..	..	..	134	..	..	..	..	261
11·66	0·368	+ 0·04	9·87835	0·08186	1·12509	0·30397	94·575	518	6934 (B.A.)	145	..	714	..	..	..	..	..	..	262
11·65	0·426	+ 0·05	0·05192	9·98601	1·12563	0·30409	91·238	516	6927 (B.A.)	144	..	..	..	135	..	..	..	..	263
11·57	0·428	+ 0·12	0·05331	9·98596	1·12795	0·30464	91·002	520	...	150	..	..	..	..	..	..	..	..	264
11·56	0·428	+ 0·06	0·05331	9·98612	1·12829	0·30472	90·970	521	6965 (B.A.)	152	..	..	..	136	74	..	..	380	265
−11·46	+0·398	+ 0·05	9·96670	0·03891	1·13160	0·30549	92·739	529	7010 (B.A.)	159	..	765	..	..	76	..	63	381	266
11·45	0·397	..	9·96421	0·04031	1·13188	0·30556	92·763	..	...	..	..	767	..	..	..	..	..	..	267
11·44	0·315	+ 0·51	9·67477	0·15504	1·13214	0·30562	95·653	530	7049 (B.A.)	168	..	..	96	139	..	72	64	..	268
11·44	0·430	+ 0·07	0·05362	9·98742	1·13218	0·30563	90·628	527	7006 (B.A.)	157	..	..	..	138	..	..	..	382	269
11·44	0·431	+ 0·06	0·05415	9·98709	1·13222	0·30563	90·610	528	7007 (B.A.)	158	..	..	..	..	..	..	..	..	270
−11·44	+0·394	+ 0·09	9·95583	0·04480	1·13229	0·30565	92·892	..	7021 (B.A.)	162	..	772	..	..	..	..	..	..	271
11·37	0·436	+ 0·25	0·06348	9·98189	1·13463	0·30620	90·126	..	7050 (B.A.)	170	..	..	..	..	..	..	..	..	272
11·14	0·374	+ 0·10	9·87128	0·08465	1·14180	0·30783	93·610	536	7157 (B.A.)	..	..	861	..	..	..	..	..	..	273
11·14	0·638	− 0·05	0·24037	9·84930	1·14188	0·30785	81·420	..	...	177	753	..	..	..	..	..	..	..	274
10·98	0·372	..	9·85588	0·09066	1·14685	0·30898	93·505	..	...	..	..	909	..	..	..	..	..	..	275
−10·98	+0·372	0·00	9·85588	0·09066	1·14685	0·30898	93·505	540	7224 (B.A.)	195	..	908	..	143	..	77	67	390	276
10·89	0·308	+ 0·35	9·62593	0·16301	1·14967	0·30961	95·112	..	...	..	..	..	..	..	..	..	..	..	277
10·88	0·437	+ 0·14	0·04669	9·99835	1·14986	0·30965	89·310	..	7248 (B.A.)	197	..	..	..	..	..	..	..	..	278
10·87	0·439	+ 0·01	0·05123	9·99577	1·15023	0·30974	89·140	541	7256 (B.A.)	199	..	..	..	..	..	..	..	..	279
10·78	0·348	− 0·03	9·75967	0·12387	1·15287	0·31032	94·230	544	7324 (B.A.)	205	..	967	..	..	..	.	..	..	280

The magnitudes of Stars taken from Argelander are marked with Asterisks. Other magnitudes are taken in the order of preference from the British Association Catalogue of 8377 Stars; from the Catalogue of Lalande published by the British Association; from Weisse's *Catalogus Stellarum ex Zonis Regiomontanis*; or, for the variable stars, from Mr. Pogson's lists in the "Radcliffe Observations, 1854 and 1856." The authorities for any remaining magnitudes are given in the Notes.

No.	Magnitude.	Star's Name.	Mean Right Ascension, 1860, Jan. 1, from Observations, 1854 to 1860.	Mean Year and Fraction of Year.	Number of Observations.	Annual Precession in R.A. for 1860, from Peters' Elements.	Secular Variation of Precession in R.A.	Annual Proper Motion in R.A. from Main or B.A.C.	Logarithms of e	Logarithms of f	Logarithms of g	Logarithms of h	Value of l	Mean North Polar Distance, 1860, Jan. 1, from Observations, 1854 to 1860.	Mean Year and Fraction of Year.	Number of Observations.
			h m s			s	s	s					s	° ′ ″		
281	3*	34 Eridani.......... γ^1	3. 51. 29·90	1857·0	40	+ 2·792	+0·0047	+ 0·002	0·09221	0·09973	1·44391	0·07599	84·502	103. 54. 34·50	1856·9	32
282	3·4*	35 Tauri............ λ	3. 52. 55·67	1857·3	8	3·316	+0·0115	− 0·002	0·09199	0·09967	1·45202	0·08189	83·487	77. 54. 30·35	1857·3	8
283	6	Groombridge 750....	3. 53. 47·64	1857·3	5	16·583	+1·8211	..	0·20845	0·27322	1·61891	0·20805	32·437	4. 49. 15·49	1857·4	6
284	9·10	Lalande 7443	3. 53. 51·46	1859·8	9	3·868	+0·0239	..	0·09431	0·10357	1·46042	0·08791	81·953	55. 4. 5·61	1859·8	10
285	5·6*	35 Eridani	3. 54. 26·46	1854·1	2	3·033	+0·0072	0·000	0·09158	0·09932	1·44767	0·07876	84·096	91. 56. 42·39	1854·1	2
286	4*	38 Tauri .... ν	3. 55. 42·71	1858·0	6	+ 3·184	+0·0092	+ 0·003	0·09151	0·09947	1·45001	0·08040	83·796	84. 24. 7·88	1858·1	4
287	4·5*	47 Persei............ λ	3. 56. 10·16	1859·4	3	4·437	+0·0416	− 0·002	0·09805	0·11022	1·46889	0·09371	80·100	40. 1. 58·33	1859·4	3
288	5·4*	37 Tauri........... A¹	3. 56. 25·38	1857·6	9	3·529	+0·0154	+ 0·004	0·09232	0·10091	1·45528	0·08408	82·966	68. 18. 14·95	1858·0	10
289	..	......	3. 57. 45·88	1858·1	3	4·126	+0·0306	..	0·09551	0·10647	1·46428	0·09027	81·178	47. 31. 15·07	1858·1	3
290	6·5*	41 Tauri	3. 58. 1·49	1858·0	5	3·664	+0·0181	+ 0·006	0·09274	0·10195	1·45734	0·08543	82·602	62. 46. 52·00	1858·1	3
291	..	......	3. 58. 14·04	1858·0	1	+ 4·135	+0·0307	..	0·09550	0·10660	1·46441	0·09031	81·156	47. 19. 8·31	1858·0	1
292	6*	43 Tauri............ ω^1	4. 1. 0·86	1858·3	41	3·477	+0·0139	+ 0·010	0·09168	0·10082	1·45449	0·08334	83·130	70. 45. 51·83	1857·9	24
293	6·5	Piazzi III. 254	4. 1. 12·78	1854·0	5	3·341	+0·0114	+ 0·011	0·09128	0·10017	1·45241	0·08194	83·467	76. 58. 33·68	1854·0	5
294	9	W. B. IV. 21	4. 2. 34·72	1856·0	3	3·222	+0·0095	..	0·09095	0·09988	1·45059	0·08070	83·741	82. 40. 20·71	1856·0	3
295	6	Groombridge 779	4. 2. (52.)	..	..	10·026	+0·4861	..	0·14527	0·19081	1·54439	0·14440	59·384	9. 31. 13·33	1860·9	4
296	..	......	4. 3. 1·96	1857·9	1	+ 2·923	+0·0058	..	0·09091	0·09990	1·44596	0·07767	84·310	97. 17.	..	..
297	6	Groombridge 784....	4. 3. 3·43	1856·7	3	7·667	+0·2348	..	0·12460	0·15725	1·51411	0·12328	68·379	14. 14. 48·05	1857·0	26
298	9	W. B. IV. 30	4. 3. 7·79	1854·1	2	3·361	+0·0116	..	0·09115	0·10035	1·45272	0·08209	83·428	76. 5. 24·79	1854·1	2
299	5·6	37 Eridani	4. 3. 32·86	1858·0	7	2·923	+0·0058	− 0·002	0·09086	0·09992	1·44595	0·07768	84·312	97. 17. 33·95	1858·1	6
300	9	W. B. IV. 53........	4. 4. 18·48	1854·1	2	3·376	+0·0118	..	0·09107	0·10047	1·45295	0·08220	83·400	75. 25. 49·80	1854·1	2
301	4·5*	51 Persei .... μ	4. 4. 37·87	1859·1	5	+ 4·375	+0·0365	− 0·003	0·09626	0·10970	1·46798	0·09195	80·468	41. 57. 2·18	1859·1	5
302	4·5*	38 Eridani.......... o^1	4. 5. 1·96	1859·2	10	2·924	+0·0058	− 0·002	0·09072	0·09999	1·44598	0·07772	84·312	97. 12. 19·98	1859·2	10
303	6*	46 Tauri	4. 5. 57·24	1856·8	5	3·224	+0·0093	+ 0·001	0·09064	0·10005	1·45061	0·08067	83·750	82. 38. 40·84	1856·0	3
304	6*	48 Tauri	4. 7. 49·61	1857·9	3	3·389	+0·0117	+ 0·008	0·09078	0·10069	1·45315	0·08222	83·387	74. 57.	..	..
305	6	Groombridge 804	4. 8. 27·23	1856·4	1	4·128	+0·0279	..	0·09406	0·10688	1·46432	0·08915	81·327	48. 12.	..	..
306	5·4*	40 Eridani .... o^2	4. 8. 49·70	1857·7	34	+ 2·908	+0·0056	− 0·148	0·09039	0·10021	1·44573	0·07763	84·345	97. 52. 24·60	1857·8	33
307	7	51 Tauri	4. 10. 6·35	1857·0	1	3·533	+0·0140	+ 0·012	0·09096	0·10157	1·45535	0·08348	83·052	68. 46. 0·14	1857·0	6
308	8	Lalande 8015	4. 10. 52·79	1859·3	4	4·265	+0·0311	..	0·09458	0·10856	1·46635	0·09015	80·932	44. 52. 37·61	1859·3	4
309	..	......	4. 10. 56·69	1858·1	3	4·252	+0·0307	..	0·09449	0·10841	1·46616	0·09002	80·974	45. 12. 1·11	1858·1	3
310	5·6*	52 Tauri .... ϕ	4. 11. 44·96	1856·5	7	3·679	+0·0166	− 0·003	0·09133	0·10266	1·45756	0·08474	82·683	62. 59. 15·85	1856·5	7
311	4*	54 Tauri............ γ	4. 11. 49·79	1857·3	43	+ 3·398	+0·0115	+ 0·009	0·09041	0·10090	1·45328	0·08217	83·392	74. 42. 50·08	1856·4	42
312	6·5*	59 Tauri .... χ^1	4. 14. 4·08	1856·5	8	3·638	+0·0155	+ 0·005	0·09092	0·10244	1·45694	0·08424	82·812	64. 42. 16·92	1856·4	12
313	..	Tauri .... χ^2	4. 14. 4·67	1855·1	1	3·638	+0·0155	..	0·09092	0·10244	1·45694	0·08424	82·812	64. 41. 59·02	1855·1	1
314	4*	61 Tauri........... δ^1	4. 14. 51·91	1856·0	5	3·443	+0·0120	+ 0·004	0·09022	0·10126	1·45398	0·08248	83·302	72. 47. 21·09	1856·0	5
315	6*	64 Tauri........... δ^2	4. 16. 1·73	1856·2	2	3·442	+0·0119	+ 0·007	0·09011	0·10130	1·45396	0·08242	83·313	72. 53. 0·61	1856·2	2
316	5·4*	65 Tauri........... κ^1	4. 17. 1·80	1855·1	6	+ 3·558	+0·0137	+ 0·004	0·09033	0·10201	1·45573	0·08339	83·039	68. 1. 49·22	1855·1	6
317	5·4*	69 Tauri............ υ^1	4. 17. 56·06	1858·9	11	3·572	+0·0138	+ 0·007	0·09029	0·10213	1·45593	0·08346	83·013	67. 30. 27·69	1859·0	10
318	9	Lalande 8336	4. 18. 50·85	1856·0	1	3·484	+0·0123	..	0·08994	0·10164	1·45460	0·08268	83·232	71. 11. 40·39	1856·0	1
319	6*	72 Tauri............. υ^2	4. 18. 55·36	1858·1	5	3·577	+0·0138	+ 0·004	0·09020	0·10221	1·45602	0·08346	83·005	67. 19. 22·67	1858·1	5
320	4·3*	74 Tauri .... ϵ	4. 20. 26·71	1856·7	67	3·487	+0·0121	+ 0·005	0·08978	0·10172	1·45464	0·08264	83·237	71. 8. 1·45	1856·3	66

283. This star is the same as Schwerd 241.

295. This star is the same as Schwerd 230.

297. This star is the same as Schwerd 232.

Annual Precession in N.P.D. for 1860, from Peters' Elements.	Secular Variation of Precession in N.P.D.	Annual Proper Motion in N.P.D. from Main or B.A.C.	Logarithms of c′	Logarithms of f′	Logarithms of g′	Logarithms of h′	Value of l′	No. in Bessel's Bradley. 1755.	No. in Lalande Fedorenko (F.) 1790, or British Association (B.A.) 1800.	Hour and No. in Piazzi. 1800.	No. in Groombridge. 1810.	Hour and No. in Weisse's Bessel. 1825.	No. in Argelander. 1830.	No. in Pond's 1112. 1830.	No. in First Cambridge Catalogue. 1830.	No. in Johnson's (St. Helena). 1830.	No. in Fallows. 1830.	No. in Struve. 1830.	No.
″	″	″					″												
−10·67	+0·349	+ 0·12	9·75974	0·12317	1·15640	0·31110	94·049	546	7376 (B.A.)	III. 210	..	III. 1009	..	147	..	80	69	..	281
10·56	0·416	+ 0·02	9·97950	0·03728	1·15961	0·31180	90·326	548	7406 (B.A.)	218	..	1029	..	148	81	..	70	..	282
10·52	2·065	..	0·30378	9·83085	1·16082	0·31222	74·064	..	607 (F.)	..	750	..	..	142	..	..	..	..	283
10·49	0·485	..	0·12460	9·95447	1·16166	0·31225	85·459	..	7443 (B.A.)	..	..	..	..	..	..	..	..	..	284
10·45	0·382	+ 0·05	9·86764	0·08555	1·16296	0·31253	92·318	550	7457 (B.A.)	222	..	1056	..	150	..	82	71	..	285
−10·35	+0·402	+ 0·01	9·93029	0·06056	1·16582	0·31314	90·973	553	7490 (B.A.)	228	..	1060	..	152	..	..	..	..	286
10·32	0·560	+ 0·05	0·19797	9·90640	1·16681	0·31335	81·351	549	642 (F.)	224	777	..	..	151	..	..	..	..	287
10·30	0·446	+ 0·09	0·04692	0·00438	1·16737	0·31347	87·799	554	7501 (B.A.)	232	..	..	..	153	82	..	..	..	288
10·20	0·523	..	0·16483	9·93279	1·17036	0·31410	82·752	..	...	..	..	..	..	..	..	..	..	..	289
10·18	0·465	+ 0·02	0·08214	9·98585	1·17095	0·31423	86·265	558	7566 (B.A.)	243	..	..	..	..	..	..	..	..	290
−10·16	+0·524	..	0·16599	9·93274	1·17139	0·31432	82·589	..	...	..	..	..	..	..	..	..	..	..	291
9·95	0·445	+ 0·06	0·03193	0·01559	1·17752	0·31561	87·412	562	7684 (B.A.)	252	..	..	..	..	85	..	..	..	292
9·94	0·428	+ 0·04	9·98807	0·03679	1·17796	0·31569	88·672	..	7698 (B.A.)	254	..	1186	..	..	..	..	..	..	293
9·83	0·414	..	9·94493	0·05592	1·18094	0·31631	89·550	..	...	..	..	IV. 21	..	..	..	..	..	..	294
9·81	1·280	..	0·29853	·85587	1·18156	0·31643	72·315	..	643 (F.)	..	779	..	..	..	..	..	..	..	295
− 9·80	+0·376	..	9·81889	0·10104	1·18192	0·31651	91·919	..	...	..	..	..	..	..	..	..	..	..	296
9·80	0·980	..	0·28756	9·86129	1·18196	0·31651	73·303	..	{650 (F.) 7619 (B.A.)}	..	784	..	..	..	..	..	..	..	297
9·79	0·432	..	9·99506	0·03446	1·18214	0·31655	88·146	..	...	..	..	30	..	..	..	..	..	..	298
9·76	0·377	+ 0·04	9·81862	0·10100	1·18304	0·31674	91·857	567	7794 (B.A.)	IV. 3	..	45	..	..	..	..	74	..	299
9·70	0·435	..	0·00004	0·03276	1·18469	0·31707	87·799	..	...	..	..	53	..	..	..	..	..	..	300
− 9·68	+0·563	+ 0·05	0·19351	9·92492	1·18541	0·31722	79·645	564	7779 (B.A.)	1	793	..	..	..	..	..	..	..	301
9·64	0·378	− 0·07	9·81928	0·10046	1·18627	0·31740	91·656	568	7842 (B.A.)	11	..	76	..	156	..	85	75	..	302
9·57	0·417	− 0·01	9·94547	0·05651	1·18841	0·31783	88·986	570	...	14	..	..	..	..	..	..	..	..	303
9·43	0·440	+ 0·02	0·00441	0·03258	1·19229	0·31860	87·049	572	7926 (B.A.)	21	..	130	..	..	87	..	76	..	304
9·38	0·536	..	0·16602	9·94853	1·19366	0·31888	80·313	..	7922 (B.A.)	..	804	..	..	..	..	..	..	..	305
− 9·35	+0·379	+ 3·46	9·81231	0·10169	1·19451	0·31905	91·278	578	7988 (B.A.)	29	..	164	103	160	..	87	..	417	306
9·25	0·461	0·00	0·04798	0·01406	1·19720	0·31957	85·180	576	8010 (B.A.)	32	..	..	..	..	89	..	..	..	307
9·19	0·557	..	0·18284	9·94211	1·19883	0·31989	78·846	..	8015 (B.A.)	..	..	..	..	..	..	..	..	..	308
9·19	0·555	..	0·18141	9·94311	1·19901	0·31992	78·908	..	...	..	..	..	..	..	..	..	..	..	309
9·13	0·482	+ 0·04	0·08561	9·99710	1·20072	0·32026	83·404	582	8065 (B.A.)	38	..	..	..	161	..	..	79	423	310
− 9·12	+0·445	+ 0·03	0·00698	0·03349	1·20090	0·32029	86·266	583	8077 (B.A.)	39	..	..	..	162	91	..	..	..	311
8·94	0·479	+ 0·04	0·07562	0·00407	1·20565	0·32120	83·365	588	...	51	..	..	..	164	..	..	..	427	312
8·94	0·479	..	0·07562	0·00408	1·20569	0·32121	83·362	..	...	..	..	..	..	..	..	..	..	..	313
8·88	0·454	+ 0·03	0·02156	0·02894	1·20729	0·32152	85·248	594	8178 (B.A.)	57	..	..	..	165	93	..	..	..	314
8·79	0·455	+ 0·04	0·02115	0·02979	1·20977	0·32198	85·055	597	8237 (B.A.)	64	..	..	..	166	..	..	..	..	315
− 8·71	+0·471	+ 0·05	0·05480	0·01600	1·21190	0·32237	83·634	599	8278 (B.A.)	70	..	..	..	167	..	..	..	..	316
8·64	0·474	+ 0·05	0·05862	0·01500	1·21379	0·32273	83·314	604	8302 (B.A.)	75	..	..	..	170	..	..	..	..	317
8·57	0·463	..	0·03367	0·02626	1·21568	0·32308	84·105	..	8336 (B.A.)	..	..	..	..	..	..	..	..	440	318
8·56	0·475	− 0·01	0·06006	0·01511	1·21589	0·32311	83·072	606	8331 (B.A.)	80	..	..	..	..	..	..	..	..	319
8·44	0·465	+ 0·03	0·03451	0·02691	1·21905	0·32369	83·785	609	8388 (B.A.)	87	..	..	..	173	95	..	..	..	320

The magnitudes of Stars taken from Argelander are marked with Asterisks. Other magnitudes are taken in the order of preference from the British Association Catalogue of 8377 Stars; from the Catalogue of Lalande published by the British Association; from Weisse's *Catalogus Stellarum ex Zonis Regiomontanis*; or, for the variable stars, from Mr. Pogson's lists in the "Radcliffe Observations for 1854 and 1856." The authorities for any remaining magnitudes are given in the Notes.

No.	Magnitude.	Star's Name.	Mean Right Ascension, 1860, Jan. 1, from Observations, 1854 to 1860.	Mean Year and Fraction of Year.	Number of Observations.	Annual Precession in R.A. for 1860, from Peters' Elements.	Secular Variation of Precession in R.A.	Annual Proper Motion in R.A. from Main or B.A.C.	Logarithms of e	f	g	h	Value of l	Mean North Polar Distance, 1860, Jan. 1, from Observations, 1854 to 1860.	Mean Year and Fraction of Year.	Number of Observations.
			h m s			s	s	s					s	° ′ ″		
321	Var.	......	4. 21. 32·19	1860·1	3	+ 3·278	+0·0091	..	0·08925	0·10088	1·45145	0·08088	83·707	80. 22. 1·96	1860·1	3
322	5·5	81 Tauri	4. 22. 39·93	1857·9	2	3·407	+0·0108	+ 0·013	0·08937	0·10141	1·45343	0·08191	83·435	74. 37.	..	..
323	6*	57 Persei ... m	4. 23. 34·39	1856·3	2	4·201	+0·0258	+ 0·004	0·09240	0·10819	1·46539	0·08820	81·331	47. 14. 24·14	1856·0	1
324	5·6*	45 Eridani	4. 24. 43·04	1858·0	7	3·065	+0·0066	0·000	0·08882	0·10071	1·44815	0·07912	84·129	90. 20. 51·28	1858·1	5
325	5*	58 Persei ... e	4. 27. 0·28	1856·4	1	4·139	+0·0235	− 0·003	0·09162	0·10759	1·46447	0·08737	81·563	49. 2.	..	..
326	6·5*	46 Eridani	4. 27. 5·46	1858·0	6	+ 2·920	+0·0054	+ 0·005	0·08867	0·10096	1·44592	0·07801	84·371	97. 2. 8·18	1858·1	4
327	1*	87 Tauri ... α	4. 27. 53·43	1856·9	123	3·430	+0·0106	+ 0·004	0·08891	0·10172	1·45378	0·08192	83·416	73. 46. 32·97	1856·8	103
328	4*	50 Eridani ... υ⁶	4. 28. 1·08	1859·6	8	2·360	+0·0033	− 0·007	0·08994	0·10411	1·43711	0·07370	85·021	121. 3. 8·56	1859·6	8
329	3·4*	48 Eridani ... ν	4. 29. 19·48	1855·5	8	2·994	+0·0059	− 0·001	0·08839	0·10093	1·44706	0·07859	84·265	93. 38. 29·68	1854·7	6
330	4·3*	52 Eridani ... υ⁷	4. 30. 6·50	1857·9	19	2·334	+0·0033	− 0·003	0·08979	0·10440	1·43670	0·07364	85·044	120. 51. 4·57	1857·9	19
331	6	Piazzi IV. 151	4. 31. 24·88	1859·1	1	+ 2·328	+0·0033	− 0·004	0·08966	0·10450	1·43660	0·07368	85·051	121. 0. 2·43	1859·1	1
332	6·5*	93 Tauri ... c²	4. 32. 15·89	1854·1	2	3·334	+0·0091	+ 0·002	0·08829	0·10148	1·45230	0·08108	83·652	78. 4. 51·38	1854·1	2
333	..	......	4. 32. 29·73	1854·9	1	3·540	+0·0117	..	0·08869	0·10248	1·45545	0·08256	83·201	69. 20.	..	..
334	6	Bradley 650	4. 32. 53·41	1854·1	3	2·748	+0·0042	+ 0·009	0·08833	0·10175	1·44323	0·07684	84·625	104. 38. 1·11	1854·1	3
335	9	Lalande 8798	4. 33. 4·70	1854·9	1	3·540	+0·0116	..	0·08862	0·10250	1·45545	0·08253	83·206	69. 21. 51·66	1854·9	1
336	4·5*	94 Tauri ... τ	4. 33. 50·78	1859·5	6	+ 3·592	+0·0122	0·000	0·08868	0·10284	1·45624	0·08287	83·091	67. 18. 56·00	1859·6	7
337	..	......	4. 34. 21·35	1858·1	2	3·583	+0·0121	..	0·08860	0·10281	1·45611	0·08279	83·115	67. 39. 57·05	1858·1	2
338	8	Lalande 8845	4. 34. 35·16	1856·0	2	3·277	+0·0083	..	0·08800	0·10138	1·45144	0·08063	83·779	80. 38. 8·55	1856·0	2
339	..	......	4. 35. 30·80	1858·1	2	3·604	+0·0122	..	0·08853	0·10299	1·45642	0·08287	83·076	66. 54. 48·97	1858·1	2
340	6	Piazzi IV. 169	4. 36. 40·47	1854·8	7	3·312	+0·0085	+ 0·013	0·08784	0·10156	1·45197	0·08083	83·722	79. 7. 5·58	1854·8	7
341	4·3*	57 Eridani ... μ	4. 38. 30·24	1857·5	32	+ 2·995	+0·0056	+ 0·008	0·08751	0·10127	1·44708	0·07867	84·295	93. 30. 51·76	1856·9	18
342	6	Lacaille 1569	4. 38. 37·43	1860·1	7	2·410	+0·0033	− 0·010	0·08857	0·10404	1·43791	0·07473	84·991	117. 50. 20·81	1860·1	7
343	4*	9 Camelopardali	4. 40. 8·94	1857·1	7	5·908	+0·0703	+ 0·007	0·09905	0·13183	1·49007	0·09738	76·357	23. 54. 5·09	1856·3	43
344	7·8	Piazzi IV. 190	4. 40. 30·52	1860·1	7	3·492	+0·0102	+ 0·013	0·08775	0·10247	1·45472	0·08191	83·370	71. 31. 40·03	1860·1	7
345	..	......	4. 40. 40·27	1854·8	1	3·569	+0·0111	..	0·08790	0·10292	1·45589	0·08240	83·202	68. 27. 32·02	1854·8	1
346	..	......	4. 41. 12·84	1854·8	1	+ 3·572	+0·0111	..	0·08787	0·10297	1·45594	0·08240	83·196	68. 19. 52·24	1854·8	1
347	5·4*	2 Orionis ... π²	4. 42. 59·15	1854·1	3	3·264	+0·0044	+ 0·010	0·08717	0·10164	1·45124	0·08040	83·850	81. 20. 37·48	1854·1	2
348	5·6*	97 Tauri ... i	4. 43. 11·23	1860·1	5	3·497	+0·0025	+ 0·003	0·08748	0·10258	1·45480	0·08184	83·380	71. 24. 7·98	1860·1	5
349	..	......	4. 43. 37·90	1854·8	1	3·580	+0·0109	..	0·08760	0·10308	1·45606	0·08233	83·202	68. 7. 5·15	1854·8	1
350	4·5*	61 Eridani ... ω	4. 46. 0·96	1854·5	5	2·946	+0·0050	− 0·002	0·08681	0·10159	1·44632	0·07841	84·397	95. 41. 22·23	1854·5	5
351	6	5 Orionis	4. 46. 4·80	1854·7	4	+ 3·122	+0·0062	+ 0·004	0·08677	0·10151	1·44905	0·07948	84·120	87. 43. 35·36	1854·7	4
352	4*	8 Orionis ... π⁵	4. 46. 57·69	1858·0	6	3·121	+0·0061	+ 0·003	0·08668	0·10153	1·44903	0·07948	84·127	87. 47. 32·54	1858·1	3
353	3*	3 Aurigæ ... ι	4. 47. 52·87	1857·0	54	3·896	+0·0146	− 0·003	0·08799	0·10569	1·46083	0·08399	82·489	57. 3. 35·19	1857·1	62
354	5*	9 Orionis ... o²	4. 48. 30·08	1857·9	3	3·373	+0·0082	− 0·005	0·08673	0·10216	1·45290	0·08093	83·676	76. 43.	..	..
355	6	Bradley 686	4. 49. 17·33	1855·6	6	3·460	+0·0090	+ 0·004	0·08677	0·10257	1·45423	0·08141	83·505	73. 4. 10·70	1855·6	7
356	9	W. B. IV. 1077	4. 49. 23·48	1854·9	1	+ 3·202	+0·0066	..	0·08648	0·10170	1·45027	0·07993	84·001	84. 11. 40·34	1854·9	1
357	6*	62 Eridani ... b	4. 49. 30·49	1854·1	1	2·952	+0·0049	− 0·001	0·08646	0·10169	1·44641	0·07849	84·403	95. 23. 47·05	1854·1	1
358	6	Lalande 9327	4. 49. 46·60	1860·1	5	2·452	+0·0033	0·000	0·08720	0·10404	1·43857	0·07562	84·977	115. 57. 16·97	1860·1	5
359	4*	10 Camelopardali ... β	4. 50. 58·84	1859·1	2	5·304	+0·0426	+ 0·004	0·09337	0·12327	1·48151	0·09151	78·569	29. 46. 5·12	1859·1	2
360	5·4*	10 Orionis ... π⁶	4. 51. 17·69	1856·0	4	3·105	+0·0058	+ 0·007	0·08625	0·10166	1·44879	0·07937	84·175	88. 30. 15·83	1854·1	2

No.	Annual Precession in N.P.D. for 1860, from Peters' Elements.	Secular Variation of Precession in N.P.D.	Annual Proper Motion in N.P.D. from Main or B.A.C.	Logarithms of e′	f′	g′	h′	Value of l′	No. in Bessel's Bradley. 1755.	No. in Lalande Fedorenko (F.) 1790, or British Association (B.A.) 1800.	Hour and No. in Piazzi. 1800.	No. in Groombridge. 1810.	Hour and No. in Weisse's Bessel. 1825.	No. in Argelander. 1830.	No. in Pond's 1112. 1830.	No. in First Cambridge Catalogue. 1830.	No. in Johnson's (St. Helena). 1830.	No. in Fallows. 1830.	No. in Struve. 1830.	No.
	″	″	″					″			IV.		IV.							
321	− 8·35	+0·438	..	9·96581	0·05319	1·22131	0·32410	85·932	..	...	..	..	..	..	..	..	..	..	..	321
322	8·26	0·456	+ 0·01	0·01000	0·03771	1·22366	0·32452	84·286	620	8470 (B.A.)	100	..	..	..	..	..	..	..	..	322
323	8·19	0·563	0·00	0·17644	9·96504	1·22551	0·32486	76·415	618	8478 (B.A.)	104	840	..	..	..	..	..	..	..	323
324	8·10	0·412	+ 0·07	9·88110	0·08007	1·22790	0·32527	87·775	624	8558 (B.A.)	110	..	509	..	..	..	..	..	..	324
325	7·92	0·558	+ 0·01	0·16870	9·97368	1·23256	0·32609	76·133	626	8593 (B.A.)	117	850	..	..	..	..	..	..	..	325
326	− 7·91	+0·395	+ 0·04	9·81743	0·09633	1·23273	0·32612	88·891	631	8632 (B.A.)	121	..	570	..	..	..	..	..	..	326
327	7·85	0·464	+ 0·17	0·01716	0·03773	1·23446	0·32640	83·126	630	8639 (B.A.)	125	..	..	108	178	102	..	87	455	327
328	7·84	0·320	+ 0·23	9·56038	0·14477	1·23463	0·32645	92·413	636	8680 (B.A.)	130	..	..	..	..	..	..	..	..	328
329	7·73	0·406	+ 0·02	9·85028	0·08794	1·23731	0·32690	87·885	637	8699 (B.A.)	133	..	628	..	180	..	98	..	..	329
330	7·67	0·318	+ 0·02	9·54851	0·14489	1·23890	0·32717	92·357	645	...	144	..	..	..	182	..	99	88	..	330
331	− 7·56	+0·318	+ 0·08	9·54531	0·14431	1·24153	0·32761	92·288	..	...	151	..	..	..	..	..	..	..	..	331
332	7·49	0·454	− 0·03	9·98538	0·05034	1·24325	0·32790	83·554	646	8775 (B.A.)	149	..	694	..	184	..	..	..	..	332
333	7·47	0·482	..	0·04980	0·02877	1·24369	0·32797	81·019	..	...	..	..	..	..	..	..	..	..	..	333
334	7·44	0·375	+ 0·12	9·73679	0·11184	1·24449	0·32810	89·733	650	8809 (B.A.)	157	..	716	..	..	..	..	..	..	334
335	7·43	0·483	..	0·04968	0·02919	1·24490	0·32817	80·918	..	8798 (B.A.)	..	..	..	..	..	..	..	..	..	335
336	− 7·36	+0·491	+ 0·02	0·06382	0·02470	1·24656	0·32841	80·154	648	8815 (B.A.)	159	..	..	..	185	103	..	..	..	336
337	7·32	0·490	..	0·06160	0·02583	1·24743	0·32859	80·169	..	...	..	..	..	..	..	..	..	..	..	337
338	7·30	0·448	..	9·96544	0·05719	1·24790	0·32866	83·873	..	8845 (B.A.)	..	..	744	..	..	..	..	..	..	338
339	7·23	0·493	..	0·06688	0·02478	1·24976	0·32895	79·721	..	...	..	..	..	..	..	..	..	..	..	339
340	7·13	0·455	0·00	9·97791	0·05418	1·25206	0·32932	83·112	..	8898 (B.A.)	169	..	792	..	..	..	..	..	..	340
341	− 6·98	+0·413	− 0·01	9·85089	0·08684	1·25569	0·32990	86·673	657	8958 (B.A.)	183	..	827	..	187	..	105	..	..	341
342	6·97	0·333	− 0·60	9·57807	0·13428	1·25592	0·32993	91·407	..	...	..	..	..	..	..	..	..	..	..	342
343	6·85	0·813	− 0·02	0·27499	9·94838	1·25898	0·33040	65·429	..	...	176	880	..	..	188	..	..	..	472	343
344	6·82	0·482	+ 0·40	0·03595	0·03834	1·25963	0·33051	80·205	..	9011 (B.A.)	190	..	..	110	..	..	..	..	..	344
345	6·81	0·493	..	0·05755	0·03159	1·25996	0·33056	79·219	..	...	..	..	..	..	..	..	..	..	..	345
346	− 6·76	+0·493	..	0·05854	0·03164	1·26105	0·33072	79·076	..	...	..	..	..	..	..	..	..	..	..	346
347	6·63	0·452	+ 0·04	9·96047	0·06080	1·26413	0·33124	82·771	667	...	209	..	918	..	190	..	..	..	..	347
348	6·60	0·485	+ 0·07	0·03739	0·03944	1·26488	0·33130	79·683	666	9081 (B.A.)	208	..	..	..	..	104	..	..	..	348
349	6·56	0·496	..	0·06051	0·03266	1·26577	0·33143	78·556	..	...	..	..	..	..	..	..	..	..	..	349
350	6·36	0·410	− 0·01	9·82885	0·09040	1·27039	0·33211	86·283	676	9189 (B.A.)	227	..	..	..	194	..	106	92	..	350
351	− 6·36	+0·435	+ 0·03	9·90520	0·07462	1·27052	0·33212	84·132	675	9183 (B.A.)	226	..	990	..	..	..	..	..	..	351
352	6·28	0·435	0·00	9·90477	0·07478	1·27222	0·33237	84·023	680	9213 (B.A.)	232	..	1023	..	195	..	..	..	..	352
353	6·21	0·543	+ 0·02	0·13123	0·01357	1·27366	0·33262	74·081	677	9221 (B.A.)	235	..	..	..	196	..	..	..	487	353
354	6·16	0·471	+ 0·05	9·99843	0·05288	1·27517	0·33278	80·443	682	9248 (B.A.)	240	..	..	..	197	..	..	..	..	354
355	6·09	0·484	+ 0·01	0·02629	0·04594	1·27671	0·33300	79·138	686	9271 (B.A.)	246	..	..	..	..	..	..	..	..	355
356	− 6·08	+0·448	..	9·93682	0·06794	1·27687	0·33303	82·628	..	...	..	..	1077	..	..	..	..	..	..	356
357	6·07	0·413	+ 0·08	9·83142	0·08937	1·27712	0·33306	85·789	689	9293 (B.A.)	250	..	1078	..	..	..	..	..	..	357
358	6·05	0·344	+ 0·58	9·59395	0·12450	1·27764	0·33314	90·306	..	9327 (B.A.)	..	..	..	..	..	..	..	..	..	358
359	5·95	0·741	+ 0·01	0·25854	9·97428	1·27992	0·33345	64·362	681	9263 (B.A.)	244	905	..	..	199	..	..	..	495	359
360	5·92	0·435	− 0·01	9·89829	0·07637	1·28053	0·33354	83·634	695	9358 (B.A.)	259	..	1119	..	..	..	..	..	..	360

321. This star is the variable S Tauri; its maximum magnitude is the 10th.
330. This star is the same as Lacaille 1529.
331. This star is the same as Lacaille 1533.
355. Bradley has no N.P.D.
328. This star is the same as Lacaille 1513.
343. This star is designated 9 Camelopardali α in the B.A.C.
358. This star is the same as Lacaille 1648.

The magnitudes of Stars taken from Argelander are marked with Asterisks. Other magnitudes are taken in the order of preference from the British Association Catalogue of 8377 Stars; from the Catalogue of Lalande published by the British Association; from Weisse's *Catalogus Stellarum ex Zonis Regiomontanis*; or, for the variable stars, from Mr. Pogson's lists in the "Radcliffe Observations, 1854 and 1856." The authorities for any remaining magnitudes are given in the Notes.

No.	Magnitude.	Star's Name.	Mean Right Ascension, 1860, Jan. 1, from Observations, 1854 to 1860.	Mean Year and Fraction of Year.	Number of Observations.	Annual Precession in R.A. for 1860, from Peters' Elements.	Secular Variation of Precession in R.A.	Annual Proper Motion in R.A. from Main or B.A.C.	Logarithms of e	Logarithms of f	Logarithms of g	Logarithms of h	Value of l	Mean North Polar Distance, 1860, Jan. 1, from Observations, 1854 to 1860.	Mean Year and Fraction of Year.	Number of Observations.
			h m s			s	s	s					s	° ′ ″		
361	6	Lalande 9354	4. 51. 20·31	1860·2	2	+ 2·743	+0·0039	..	0·08648	0·10236	1·44315	0·07734	84·683	104. 27. 5·65	1860·2	2
362	7·8	Lalande 9362	4. 51. 55·32	1854·9	6	3·555	+0·0097	..	0·08667	0·10317	1·45569	0·08184	83·323	69. 17. 12·02	1854·9	6
363	6*	63 Eridani	4. 53. 12·95	1858·0	8	2·835	+0·0042	+ 0·006	0·08617	0·10207	1·44460	0·07790	84·574	100. 28. 17·72	1858·1	6
364	5·4*	65 Eridani .... ψ	4. 54. 39·12	1854·1	4	2·906	+0·0045	+ 0·002	0·08597	0 10192	1·44569	0·07830	84·488	97. 22. 57·13	1854·1	4
365	5*	102 Tauri .... ι	4. 54. 43·86	1856·4	4	3·575	+0·0095	+ 0·004	0·08640	0·10336	1·45598	0·08182	83·307	68. 36. 50·47	1856·4	4
366	5*	11 Orionis	4. 56. 34·22	1857·9	4	+ 3·422	+0·0079	0·000	0·08596	0·10259	1·45365	0·08097	83·637	74. 48.	..	..
367	4·3*	10 Aurigæ .... η	4. 56. 42·15	1858·4	21	4·192	+0·0171	+ 0·003	0·08782	0·10892	1·46526	0·08487	81·845	48. 57. 33·68	1857·8	31
368	5·6*	104 Tauri............ m	4. 59. 10·75	1857·0	4	3·503	+0·0084	+ 0·040	0·08581	0·10306	1·45488	0·08129	83·494	71. 32. 47·84	1854·1	1
369	6·5*	106 Tauri l	4. 59. 31·49	1855·1	3	3·548	+0·0087	− 0·002	0·08585	0·10333	1·45557	0·08150	83·403	69. 46. 12·48	1855·1	3
370	4·3*	2 Leporis .... ε	4. 59. 32·10	1857·9	23	2·536	+0·0033	0·000	0·08595	0·10370	1·43989	0·07656	84·926	112. 33. 43·63	1857·3	20
371	5	Piazzi IV. 269	4. 59. 33·38	1856·4	4	+ 9·749	+0·2176	− 0·054	0·11110	0·18719	1·54094	0·11056	65·295	10. 56. 25·41	1857·9	21
372	6	103 Tauri..............	4. 59. 34·94	1860·0	7	3·649	+0·0097	+ 0·004	0·08602	0·10397	1·45711	0·08198	83·189	65. 55. 26·17	1860·0	7
373	6	66 Eridani	4. 59. 50·38	1854·1	2	2·963	+0·0046	0·000	0·08543	0·10196	1·44658	0·07865	84·432	94. 50. 48·55	1854·1	2
374	..	......	5. 0. 9·08	1854·8	1	3·266	+0·0064	..	0·08544	0·10214	1·45126	0·08012	83·952	81. 27. 28·52	1854·8	1
375	..	......	5. 0. 30·88	1854·8	1	3·266	+0·0063	..	0·08540	0·10215	1·45127	0·08011	83·954	81. 27. 28·11	1854·8	1
376	5·6*	15 Orionis	5. 1. 41·25	1860·1	3	+ 3·429	+0·0075	− 0·001	0·08544	0·10275	1·45376	0·08085	83·662	74. 35. 7·01	1860·1	3
377	4*	69 Eridani .... λ	5. 2. 26·85	1854·9	4	2·868	+0·0041	+ 0·002	0·08521	0·10222	1·44511	0·07824	84·570	98. 56. 12·52	1854·9	4
378	9	W. B. V. 54.........	5. 4. 25·76	1854·1	3	3·390	+0·0069	..	0·08511	0·10266	1·45316	0·08060	83·757	76. 14. 53·72	1854·1	2
379	5*	3 Leporis .... ι	5. 5. 46·09	1859·1	4	2·795	+0·0038	+ 0·005	0·08493	0·10253	1·44396	0·07798	84·673	102. 2. 25·13	1859·1	4
380	5*	17 Orionis .... ρ	5. 5. 58·42	1854·1	2	3·133	+0·0052	+ 0·004	0·08479	0·10205	1·44922	0·07945	84·209	87. 18. 32·20	1854·1	2
381	1*	13 Aurigæ .... α	5. 6. 21·12	1857·3	78	+ 4·412	+0·0176	+ 0·008	0·08715	0·11164	1·46852	0·08491	81·424	44. 8. 57·40	1857·4	51
382	..	Gr. Cat. 1850 No. 355	5. 7. 48·48	1857·6	2	2·880	+0·0040	..	0·08466	0·10231	1·44530	0·07837	84·578	98. 22. 8·51	1857·1	3
383	1*	19 Orionis .... β	5. 7. 48·63	1857·2	101	2·880	+0·0040	− 0·001	0·08466	0·10231	1·44530	0·07837	84·578	98. 21. 59·90	1857·1	84
384	5*	15 Aurigæ .... λ	5. 9. 17·81	1860·1	7	4·165	+0·0136	+ 0·043	0·08604	0·10886	1·46487	0·08360	82·095	50. 1. 48·45	1860·1	7
385	..	......	5. 10. 38·46	1855·1	4	3·108	+0·0048	..	0·08432	0·10214	1·44883	0·07933	84·274	88. 25. 17·54	1855·1	4
386	6*	109 Tauri .... n	5. 10. 52·05	1859·8	7	+ 3·599	+0·0078	+ 0·001	0·08468	0·10389	1·45634	0·08125	83·401	68. 3. 8·52	1859·8	7
387	..	Gr. Cat. 1850 No. 361	5. 11. 6·51	1854·1	1	3·712	+0·0087	..	0·08484	0·10468	1·45807	0·08168	83·165	63. 53. 25·24	1854·1	1
388	6·7	Piazzi V. 41........	5. 12. 12·14	1854·1	3	3·762	+0·0090	+ 0·001	0·08479	0·10508	1·45882	0·08180	83·072	62. 11. 20·05	1854·1	3
389	4·5*	6 Leporis .... λ	5. 13. 7·61	1855·7	14	2·762	+0·0035	0·000	0·08419	0·10280	1·44345	0·07802	84·741	103. 19. 27·55	1855·7	14
390	8	Piazzi V. 61........	5. 14. 44·00	1860·1	6	3·151	+0·0047	− 0·065	0·08390	0·10226	1·44949	0·07946	84·235	86. 34. 9·09	1860·1	6
391	5·6*	23 Orionis .... m	5. 15. 28·51	1860·1	1	+ 3·150	+0·0047	+ 0·001	0·08382	0·10227	1·44948	0·07946	84·241	86. 35. 37·83	1860·1	1
392	9	Lalande 10096	5. 16. 10·43	1854·1	1	3·480	+0·0064	..	0·08396	0·10330	1·45454	0·08061	83·680	72. 45. 1·57	1854·1	1
393	6·5*	111 Tauri..............	5. 16. 15·31	1854·2	1	3·480	+0·0064	+ 0·017	0·08394	0·10330	1·45453	0·08060	83·683	72. 45. 2·25	1854·1	2
394	3·4*	28 Orionis .... η	5. 17. 26·34	1859·1	4	3·014	+0·0040	+ 0·002	0·08362	0·10229	1·44738	0·07898	84·449	92. 31. 44·20	1859·1	4
395	2*	112 Tauri............ β	5. 17. 26·67	1856·8	68	3·785	+0·0083	+ 0·003	0·08422	0·10535	1·45917	0·08160	83·077	61. 30. 54·08	1857·1	96
396	6	Groombridge 944....	5. 17. 31·26	1860·4	2	+18·440	+0·7062	..	0·12847	0·29426	1·63789	0·12830	41·448	4. 53. 17·40	1860·4	2
397	2*	24 Orionis .... γ	5. 17. 37·39	1860·4	3	3·215	+0·0049	+ 0·002	0·08362	0·10241	1·45048	0·07967	84·152	83. 46. 50·92	1860·4	3
398	5·6*	24 Aurigæ .... φ	5. 18. 22·14	1860·0	3	3·971	+0·0097	+ 0·005	0·08443	0·10701	1·46196	0·08215	82·679	55. 38. 52·85	1860·0	3
399	6*	115 Tauri..............	5. 19. 0·15	1860·1	5	3·495	+0·0062	+ 0·001	0·08367	0·10344	1·45477	0·08056	83·676	72. 9. 43·46	1860·1	5
400	6*	114 Tauri............ o	5. 19. 13·59	1855·4	2	3·599	+0·0068	− 0·001	0·08375	0·10404	1·45635	0·08089	83·479	68. 11. 11·82	1855·4	2

371. This star is the same as Schwerd 307.

372. Bradley has no N.P.D.

396. This star is the same as Schwerd 319.

Annual Precession in N.P.D. for 1860, from Peters' Elements.	Secular Variation of Precession in N.P.D.	Annual Proper Motion in N.P.D. from Main or B.A.C.	Logarithms of e′	Logarithms of f′	Logarithms of g′	Logarithms of h′	Value of l′	No. in Bessel's Bradley. 1755.	No. in Lalande Fedorenko (F.) 1790, or British Association (B.A.) 1800.	Hour and No. in Piazzi. 1800.	No. in Groombridge. 1810.	Hour and No. in Weisse's Bessel. 1825.	No. in Argelander. 1830.	No. in Pond's 1112. 1830.	No. in First Cambridge Catalogue. 1830.	No. in Johnson's (St. Helena). 1830.	No. in Fallows. 1830.	No. in Struve. 1830.	No.
″	″	″					″			IV.		IV.							
− 5·92	+0·385	..	9·73352	0·10505	1·28059	0·33354	87·840	..	9354 (B.A.)	..	..	..	..	..	..	..	..	..	361
5·87	0·498	..	0·05400	0·03998	1·28169	0·33369	77·419	..	9362 (B.A.)	..	..	..	..	..	..	..	..	..	362
5·76	0·399	+ 0·12	9·77764	0·09767	1·28416	0·33402	86·680	697	9429 (B.A.)	271	..	1173	..	202	..	107	93	..	363
5·64	0·409	− 0·01	9·81050	0·09207	1·28687	0·33438	85·715	701	9476 (B.A.)	280	..	1214	..	204	..	108	..	..	364
5·64	0·503	+ 0·06	0·05911	0·04043	1·28703	0·33440	76·685	698	9450 (B.A.)	274	..	..	..	203	105	..	..	..	365
− 5·48	+0·482	+ 0·03	0·01431	0·05245	1·29047	0·33485	78·481	702	9516 (B.A.)	286	..	..	..	206	..	..	..	..	366
5·47	0·591	+ 0·09	0·17733	0·00901	1·29072	0·33488	69·378	700	9500 (B.A.)	283	925	..	..	205	..	..	..	512	367
5·26	0·495	− 0·02	0·03894	0·04804	1·29531	0·33546	76·920	705	9599 (B.A.)	293	..	..	118	207	..	..	94	..	368
5·23	0·502	+ 0·04	0·05181	0·04524	1·29597	0·33554	76·230	708	9615 (B.A.)	296	..	..	..	..	..	..	..	..	369
5·23	0·359	+ 0·07	9·63225	0·11397	1·29600	0·33554	88·919	713	9647 (B.A.)	303	..	..	..	209	..	109	..	..	370
− 5·23	+1·375	− 0·05	0·31500	9·97496	1·29600	0·33554	56·907	..	{ 719 (F.) 9407 (B.A.) }	269	919	..	..	..	..	.	..	514	371
5·23	0·516	− 0·05	0·07838	0·03888	1·29610	0·33555	74·849	706	9612 (B.A.)	295	..	..	..	..	..	..	..	518	372
5·20	0·420	+ 0·04	9·83626	0·08705	1·29659	0·33562	84·402	712	9639 (B.A.)	302	..	1345	..	..	..	..	..	..	373
5·18	0·462	..	9·96118	0·06507	1·29714	0·33568	80·157	..	...	..	..	..	..	..	..	..	..	..	374
5·15	0·463	..	9·96123	0·06515	1·29782	0·33576	80·103	..	...	..	..	..	..	..	..	..	..	..	375
− 5·05	+0·486	− 0·03	0·01662	0·05427	1·29998	0·33602	77·560	714	9690 (B.A.)	313	..	..	..	211	..	..	96	..	376
4·98	0·407	+ 0·03	9·79302	0·09293	1·30138	0·33618	85·278	720	9734 (B.A.)	323	..	V. 21	..	212	..	112	98	526	377
4·81	0·482	..	0·00398	0·05803	1·30506	0·33662	77·702	..	9761 (B.A.)	..	..	54	..	..	..	..	..	..	378
4·70	0·398	+ 0·02	9·75808	0·09652	1·30746	0·33689	85·793	727	9795 (B.A.)	V. 11	..	102	..	216	..	113	..	531	379
4·69	0·446	+ 0·01	9·90956	0·07521	1·30782	0·33693	81·286	725	...	10	..	103	..	217	..	..	..	532	380
− 4·65	+0·628	+ 0·43	0·20292	0·01434	1·30852	0·33701	65·535	722	9775 (B.A.)	6	946	..	120	214	107	..	..	529	381
4·53	0·411	..	9·79858	0·09091	1·31115	0·33730	84·535	..	...	..	..	..	..	..	..	..	..	..	382
4·53	0·411	+ 0·02	9·79858	0·09091	1·31117	0·33730	84·534	736	9834 (B.A.)	18	..	163	121	221	108	116	99	542	383
4·40	0·595	+ 0·70	0·17438	0·02489	1·31382	0·33759	67·064	731	9844 (B.A.)	22	954	..	122	222	..	..	..	545	384
4·29	0·445	..	9·89938	0·07703	1·31624	0·33785	81·039	..	...	..	..	..	..	..	..	..	..	..	385
− 4·27	+0·515	− 0·03	0·06547	0·04941	1·31666	0·33789	73·612	741	9909 (B.A.)	34	..	..	..	..	..	..	..	..	386
4·25	0·531	..	0·09363	0·04406	1·31709	0·33793	71·978	..	...	..	..	..	..	..	..	..	..	..	387
4·15	0·539	+ 0·06	0·10473	0·04272	1·31905	0·33812	71·123	..	9944 (B.A.)	41	..	..	..	..	..	..	..	..	388
4·07	0·396	+ 0·03	9·74210	0·09579	1·32071	0·33829	85·433	748	10009 (B.A.)	52	..	..	..	224	..	118	101	..	389
3·94	0·452	− 0·01	9·91682	0·07491	1·32352	0·33857	79·861	..	10052 (B.A.)	61	..	..	..	..	..	..	..	..	390
− 3·87	+0·453	+ 0·02	9·91645	0·07502	1·32488	0·33869	79·777	753	10088 (B.A.)	65	..	342	..	225	..	..	..	562	391
3·81	0·500	..	0·03209	0·05830	1·32608	0·33881	74·521	..	10096 (B.A.)	..	..	..	..	..	..	..	..	..	392
3·81	0·500	0·00	0·03214	0·05834	1·32623	0·33882	74·506	754	10097 (B.A.)	66	..	..	..	..	..	..	..	566	393
3·70	0·434	+ 0·02	9·85920	0·08212	1·32831	0·33902	81·591	765	10152 (B.A.)	81	..	..	..	227	..	119	102	..	394
3·70	0·544	+ 0·20	0·10968	0·04610	1·32833	0·33902	69·889	756	10114 (B.A.)	72	..	..	123	226	110	..	..	569	395
− 3·70	+2·645	..	0·33088	0·00705	1·32845	0·33903	50·897	..	728 (F.)	..	944	..	..	..	..	..	..	..	396
3·69	0·463	+ 0·04	9·94201	0·07192	1·32863	0·33904	78·474	761	10150 (B.A.)	80	..	..	..	228	111	..	..	..	397
3·62	0·571	+ 0·05	0·14510	0·04063	1·32994	0·33916	67·390	758	10147 (B.A.)	79	..	..	124	229	..	..	..	..	398
3·57	0·503	0·00	0·03675	0·05900	1·33105	0·33926	73·835	767	10179 (B.A.)	86	..	..	..	..	112	..	..	..	399
3·55	0·518	+ 0·01	0·06558	0·05470	1·33146	0·33930	72·221	768	10185 (B.A.)	88	..	..	..	231	..	..	..	..	400

The magnitudes of Stars taken from Argelander are marked with Asterisks. Other magnitudes are taken in the order of preference from the British Association Catalogue of 8377 Stars; from the Catalogue of Lalande published by the British Association; from Weisse's *Catalogus Stellarum ex Zonis Regiomontanis*; or, for the variable stars, from Mr. Pogson's lists in the "Radcliffe Observations, 1854 and 1856." The authorities for any remaining magnitudes are given in the Notes.

No.	Magnitude.	Star's Name.	Mean Right Ascension, 1860, Jan. 1, from Observations, 1854 to 1860.	Mean Year and Fraction of Year.	Number of Observations.	Annual Precession in R.A. for 1860, from Peters' Elements.	Secular Variation of Precession in R.A.	Annual Proper Motion in R.A. from Main or B.A.C.	Logarithms of e	f	g	h	Value of l	Mean North Polar Distance, 1860, Jan. 1, from Observations, 1854 to 1860.	Mean Year and Fraction of Year.	Number of Observations.
			h m s			s	s	s					s	° ′ ″		
401	..	......	5. 19. 49·46	1854·1	1	+ 7·968	+0·0831	..	0·09509	0·16221	1·51810	0·09455	71·918	15. 2. 59·84	1854·1	1
402	8	Lalande {10231, 10232} ..	5. 20. 39·39	1854·1	1	3·687	+0·0072	..	0·08370	0·10466	1·45769	0·08110	83·315	64. 58. 6·73	1854·1	1
403	6*	118 Tauri	5. 20. 39·68	1854·1	2	3·687	+0·0072	0·000	0·08370	0·10466	1·45769	0·08110	83·315	64. 58. 2·04	1854·1	2
404	6	Lacaille 1849	5. 21. 47·40	1860·1	2	2·409	+0·0029	+ 0·015	0·08364	0·10503	1·43789	0·07717	85·100	116. 42. 14·21	1860·1	2
405	3·4*	9 Leporis .... β	5. 22. 14·83	1855·5	11	2·569	+0·0030	0·000	0·08339	0·10392	1·44042	0·07767	84·970	110. 52. 25·91	1855·5	9
406	..	......	5. 22. 20·37	1854·1	2	+ 3·729	+0·0072	..	0·08357	0·10499	1·45832	0·08114	83·247	63. 31. 42·40	1854·1	2
407	5*	25 Aurigæ .... χ	5. 23. 37·10	1857·3	7	3·900	+0·0081	+ 0·003	0·08366	0·10642	1·46089	0·08157	82·903	57. 54. 56·92	1857·3	7
408	6·5*	119 Tauri	5. 24. 0·41	1860·1	3	3·514	+0·0057	0·000	0·08314	0·10361	1·45505	0·08044	83·686	71. 30. 49·76	1860·1	5
409	2*	34 Orionis .... δ	5. 24. 51·30	1857·7	38	3·063	+0·0038	+ 0·001	0·08285	0·10240	1·44813	0·07916	84·423	90. 24. 21·97	1857·8	32
410	..	Gr Cat. 1850 No. 390.	5. 26. 7·65	1854·6	2	3·734	+0·0067	..	0·08314	0·10508	1·45839	0·08096	83·279	63. 25. 38·54	1854·6	2
411	8	Lalande 10430	5. 26. 13·89	1856·0	1	+ 3·742	+0·0067	..	0·08313	0·10515	1·45852	0·08097	83·262	63. 7. 25·18	1856·0	1
412	6·7	Lalande 10456	5. 26. 25·16	1856·1	3	3·043	+0·0037	..	0·08269	0·10243	1·44782	0·07910	84·462	91. 15. 28·84	1856·1	3
413	3*	11 Leporis .... α	5. 26. 33·36	1857·3	15	2·644	+0·0029	+ 0·001	0·08285	0·10357	1·44160	0·07805	84·917	107. 55. 31·55	1857·0	13
414	6*	121 Tauri	5. 26. 54·25	1856·9	6	3·660	+0·0061	+ 0·005	0·08296	0·10455	1·45727	0·08072	83·436	66. 3. 27·07	1856·9	6
415	5*	37 Orionis.......... ϕ^1	5. 27. 8·16	1859·1	5	3·291	+0·0045	+ 0·002	0·08266	0·10274	1·45165	0·07976	84·098	80. 36. 31·98	1859·1	5
416	3·4*	39 Orionis.......... λ^1	5. 27. 25·73	1856·4	5	+ 3·302	+0·0045	− 0·001	0·08263	0·10277	1·45181	0·07978	84·083	80. 9. 47·84	1856·4	5
417	..	Orionis.......... λ^2	5. 27. 26·01	1857·2	2	3·301	+0·0045	..	0·08263	0·10277	1·45181	0·07978	84·083	80. 10.	...	..
418	9	......	5. 28. 20·21	1855·2	1	2·932	+0·0033	..	0·08251	0·10257	1·44611	0·07883	84·614	96. 1. 21·69	1855·2	1
419	7	Piazzi V. 145	5. 28. 24·41	1857·1	3	3·742	+0·0064	+ 0·011	0·08289	0·10518	1·45852	0·08085	83·286	63. 10. 1·64	1857·1	3
420	5·6	B. A. C. 1751	5. 28. 25·09	1859·2	1	5·993	+0·0287	..	0·08714	0·13353	1·49127	0·08643	77·749	24. 23. 5·96	1857·7	9
421	3*	44 Orionis .... ι^1	5. 28. 35·18	1856·1	5	+ 2·933	+0·0033	+ 0·001	0·08248	0·10257	1·44611	0·07884	84·616	96. 0. 17·66	1856·1	6
422	..	Orionis .... ι^2	5. 28. 35·64	1857·1	2	2·933	+0·0033	..	0·08248	0·10257	1·44611	0·07884	84·616	96. 0. 26·90	1856·7	3
423	2*	46 Orionis .... ε	5. 29. 6·60	1857·4	28	3·042	+0·0036	− 0·002	0·08241	0·10247	1·44781	0·07911	84·478	91. 17. 41·05	1857·4	24
424	5·4*	40 Orionis.......... ϕ^2	5. 29. 12·93	1859·1	3	3·287	+0·0043	+ 0·007	0·08244	0·10275	1·45159	0·07970	84·120	80. 47. 20·25	1859·1	3
425	3·4*	123 Tauri .... ζ	5. 29. 16·82	1856·3	12	3·582	+0·0055	0·000	0·08262	0·10407	1·45609	0·08042	83·609	68. 56. 48·95	1856·3	12
426	5*	49 Orionis .... d	5. 32. 6·68	1854·1	4	+ 2·902	+0·0031	− 0·002	0·08212	0·10268	1·44564	0·07880	84·671	97. 17. 38·96	1854·1	3
427	2*	50 Orionis .... ζ^1	5. 33. 41·73	1859·7	2	3·025	+0·0033	+ 0·002	0·08194	0·10253	1·44755	0·07909	84·528	92. 1. 12·20	1859·7	2
428	..	Orionis .... ζ^2	5. 33. 41·96	1860·2	1	3·025	+0·0033	..	0·08194	0·10253	1·44755	0·07909	84·528	92. 1. 14·35	1860·2	1
429	2*	Columbæ .... α	5. 34. 34·79	1857·8	21	2·171	+0·0028	+ 0·008	0·08239	0·10723	1·43410	0·07736	85·298	124. 9. 2·82	1857·8	23
430	6	Lalande 10769	5. 37. 52·53	1861·0	1	6·437	+0·0249	..	0·08546	0·14000	1·49744	0·08502	76·923	21. 34. 35·25	1858·7	7
431	..	Leporis .... γ^1	5. 38. 36·42	1860·2	1	+ 2·521	+0·0026	− 0·007	0·08161	0·10443	1·43967	0·07825	85·074	112. 28. 14·79	1860·2	1
432	4*	13 Leporis .... γ^2	5. 38. 37·64	1860·1	5	2·521	+0·0026	− 0·023	0·08161	0·10443	1·43966	0·07825	85·075	112. 29. 48·71	1860·1	5
433	6	129 Tauri............	5. 38. 42·51	1854·1	4	3·448	+0·0039	0·000	0·08150	0·10346	1·45405	0·07982	83·933	74. 14. 10·54	1854·1	4
434	4·3*	14 Leporis.......... ζ	5. 40. 36·80	1859·1	6	2·718	+0·0026	+ 0·003	0·08129	0·10337	1·44276	0·07864	84·912	104. 52. 38·00	1859·1	6
435	3·2*	53 Orionis .... κ	5. 41. 7·00	1859·9	7	2·844	+0·0027	0·000	0·08119	0·10292	1·44473	0·07884	84·787	99. 43. 20·63	1859·9	6
436	6	Piazzi V. 239	5. 42. 20·02	1854·1	4	+ 3·303	+0·0033	+ 0·007	0·08106	0·10293	1·45183	0·07951	84·198	80. 10. 33·52	1854·1	4
437	5·6*	31 Camelopardali	5. 42. 25·81	1857·4	4	5·367	+0·0117	− 0·003	0·08285	0·12461	1·48240	0·08235	79·777	30. 8. 57·88	1856·9	21
438	..	......	5. 42. 46·59	1857·9	2	5·181	+0·0104	..	0·08256	0·12203	1·47973	0·08204	80·240	32. 17. 56·65	1857·9	2
439	5*	136 Tauri	5. 44. 31·77	1855·3	4	3·769	+0·0040	− 0·001	0·08101	0·10553	1·45892	0·08003	83·416	62. 25. 30·26	1854·8	7
440	4*	15 Leporis .... δ	5. 45. 18·08	1860·1	5	2·563	+0·0025	+ 0·017	0·08083	0·10422	1·44032	0·07860	85·071	110. 53. 38·63	1860·1	5

No.	Annual Precession in N.P.D. for 1860, from Peters' Elements.	Secular Variation of Precession in N.P.D.	Annual Proper Motion in N.P.D. from Main or B.A.C.	Logarithms of e′	f′	g′	h′	Value of l′	No. in Bessel's Bradley. 1755.	No. in Lalande Fedorenko (F.) 1790, or British Association (B.A.) 1800.	Hour and No. in Piazzi. 1800.	No. in Groombridge. 1810.	Hour and No. in Weisse's Bessel. 1825.	No. in Argelander. 1830.	No. in Pond's 1112. 1830.	No. in First Cambridge Catalogue. 1830.	No. in Johnson's (St. Helena). 1830.	No. in Fallows. 1830.	No. in Struve. 1830.	No.
	″	″	″					″			V.		V.							
401	− 3·50	+ 1·146	..	0·30925	0·01352	1·33250	0·33939	52·833	..	...	..	..	..	..	..	..	..	..	..	401
402	3·43	0·531	..	0·08768	0·05219	1·33392	0·33952	70·693	..	10231 (B.A.)	..	..	..	..	..	..	..	..	..	402
403	3·43	0·531	+ 0·05	0·08768	0·05221	1·33395	0·33952	70·689	775	10233 (B.A.)	98	..	..	..	..	..	..	..	576	403
404	3·33	0·348	+ 0·34	9·56726	0·10535	1·33591	0·33968	88·246	..	...	..	..	..	..	..	..	..	..	..	404
405	3·29	0·371	+ 0·09	9·64650	0·09982	1·33669	0·33976	86·744	781	10331 (B.A.)	113	..	..	..	233	..	120	104	..	405
406	− 3·28	+ 0·538	..	0·09733	0·05195	1·33683	0·33976	69·817	..	...	..	..	..	..	..	..	..	..	..	406
407	3·17	0·563	− 0·02	0·13255	0·04767	1·33904	0·33994	67·296	776	10337 (B.A.)	114	..	..	..	235	..	..	..	..	407
408	3·14	0·507	+ 0·01	0·04202	0·06085	1·33970	0·33999	72·772	783	10367 (B.A.)	119	..	..	..	..	..	..	..	..	408
409	3·06	0·443	+ 0·04	9·88036	0·07957	1·34116	0·34011	79·962	787	10404 (B.A.)	126	..	604	..	237	114	122	105	590	409
410	2·95	0·540	..	0·09840	0·05465	1·34332	0·34027	69·107	..	...	..	..	..	..	..	..	..	..	..	410
411	− 2·94	+ 0·541	..	0·10047	0·05447	1·34352	0·34029	68·953	..	10430 (B.A.)	..	..	..	..	..	..	..	..	..	411
412	2·93	0·440	..	9·87192	0·08033	1·34377	0·34030	80·092	..	10456 (B.A.)	..	..	..	..	..	..	..	..	..	412
413	2·92	0·383	0·00	9·68350	0·09509	1·34406	0·34032	85·584	796	10476 (B.A.)	139	..	..	..	240	..	125	107	..	413
414	2·89	0·530	+ 0·02	0·08102	0·05750	1·34466	0·34037	70·056	790	10453 (B.A.)	135	..	..	..	..	..	..	..	..	414
415	2·87	0·476	+ 0·02	9·97002	0·07066	1·34506	0·34040	75·945	792	10473 (B.A.)	138	..	652	..	241	..	..	..	..	415
416	− 2·84	+ 0·478	+ 0·02	9·97382	0·07034	1·34556	0·34043	75·728	794	10490 (B.A.)	141	..	..	..	242	..	..	..	596	416
417	2·84	0·478	..	9·97382	0·07034	1·34556	0·34043	75·728	..	...	..	..	..	..	..	..	..	..	..	417
418	2·76	0·425	..	9·82263	0·08438	1·34708	0·34054	81·574	..	...	..	..	..	..	..	..	..	..	..	418
419	2·76	0·542	− 0·05	0·10034	0·05612	1·34720	0·34055	68·598	..	10510 (B.A.)	145	..	..	..	..	..	..	..	..	419
420	2·76	0·867	..	0·28400	0·03136	1·34723	0·34055	53·593	..	...	..	..	..	..	..	..	..	..	..	420
421	− 2·74	+ 0·425	+ 0·01	9·82276	0·08434	1·34751	0·34057	81·542	806	10543 (B.A.)	151	..	..	..	244	..	127	..	608	421
422	2·74	0·425	..	9·82276	0·08433	1·34754	0·34057	81·540	..	...	..	..	..	..	..	..	..	..	..	422
423	2·69	0·441	+ 0·01	9·87140	0·08028	1·34841	0·34064	79·790	809	10563 (B.A.)	160	..	..	..	247	116	128	110	..	423
424	2·69	0·476	+ 0·33	9·96867	0·07134	1·34858	0·34065	75·724	805	10558 (B.A.)	156	..	717	127	246	..	..	..	..	424
425	2·68	0·519	+ 0·05	0·06108	0·06146	1·34870	0·34066	70·864	800	10548 (B.A.)	152	..	..	..	245	115	..	109	..	425
426	− 2·43	+ 0·421	+ 0·07	9·80855	0·08473	1·35346	0·34096	81·632	816	10675 (B.A.)	176	..	804	..	251	..	130	..	..	426
427	2·30	0·439	+ 0·03	9·86410	0·08064	1·35609	0·34113	79·535	819	10731 (B.A.)	188	..	848	..	252	117	132	113	623	427
428	2·30	0·439	..	9·86410	0·08064	1·35609	0·34113	79·535	..	...	..	..	..	..	..	..	..	..	..	428
429	2·22	0·316	0·00	9·45179	0·10110	1·35756	0·34121	89·189	..	...	196	..	..	..	253	118	133	114	..	429
430	1·93	0·935	..	0·29358	0·04548	1·36300	0·34151	50·524	..	10769 (B.A.)	..	..	..	..	..	..	..	..	..	430
431	− 1·87	+ 0·367	..	9·62170	0·09188	1·36420	0·34157	85·998	836	10931 (B.A.)	..	..	..	129	..	..	..	..	..	431
432	1·87	0·367	+ 0·37	9·62128	0·09189	1·36422	0·34157	86·005	837	10933 (B.A.)	219	..	..	130	255	..	134	..	..	432
433	1·86	0·501	− 0·01	0·02243	0·06996	1·36434	0·34158	71·646	830	10895 (B.A.)	212	..	..	..	..	..	..	..	..	433
434	1·69	0·396	+ 0·01	9·71991	0·08697	1·36746	0·34168	83·466	843	10998 (B.A.)	230	..	1024	..	257	..	135	..	..	434
435	1·65	0·414	+ 0·03	9·78111	0·08418	1·36828	0·34176	81·615	844	11013 (B.A.)	234	..	1036	..	259	..	137	117	..	435
436	− 1·55	+ 0·481	+ 0·19	9·97424	0·07440	1·37024	0·34184	73·696	..	11047 (B.A.)	239	..	1064	..	..	..	..	..	..	436
437	1·54	0·781	+ 0·02	0·26583	0·05454	1·37041	0·34185	52·462	831	...	226	1027	..	..	261	121	..	..	..	437
438	1·51	0·754	..	0·25792	0·05557	1·37095	0·34187	53·190	..	...	..	..	..	..	..	..	..	..	..	438
439	1·35	0·549	+ 0·07	0·10619	0·06773	1·37379	0·34198	65·535	848	11090 (B.A.)	247	..	..	..	263	123	..	..	..	439
440	1·29	0·374	+ 0·66	9·64207	0·08737	1·37501	0·34202	85·058	858	11142 (B.A.)	261	..	..	135	264	..	138	..	.	440

418. The magnitude has been taken from the Greenwich Observations.

429. This star is the same as Lacaille 1938.

The magnitudes of Stars taken from Argelander are marked with Asterisks. Other magnitudes are taken in the order of preference from the British Association Catalogue of 8377 Stars; from the Catalogue of Lalande published by the British Association; from Weisse's *Catalogus Stellarum ex Zonis Regiomontanis*; or, for the variable stars, from Mr. Pogson's lists in the "Radcliffe Observations, 1854 and 1856." The authorities for any remaining magnitudes are given in the Notes.

No.	Magnitude.	Star's Name.	Mean Right Ascension, 1860, Jan. 1, from Observations, 1854 to 1860.	Mean Year and Fraction of Year.	Number of Observations.	Annual Precession in R.A. for 1860, from Peters' Elements.	Secular Variation of Precession in R.A.	Annual Proper Motion in R.A. from Main or B.A.C.	Logarithms of e	Logarithms of f	Logarithms of g	Logarithms of h	Value of l	Mean North Polar Distance, 1860, Jan. 1, from Observations, 1854 to 1860.	Mean Year and Fraction of Year.	Number of Observations.
			h m s			s	s	s					s	° ′ ″		
441	3*	Columbæ .... β	5. 46. 1·49	1858·3	9	+ 2·109	+0·0026	+ 0·002	0·08099	0·10791	1·43311	0·07812	85·366	125. 49. 21·84	1858·4	10
442	5·4*	54 Orionis .... χ¹	5. 46. 5·57	1860·0	6	3·564	+0·0034	− 0·016	0·08074	0·10412	1·45582	0·07972	83·805	69. 45. 14·56	1860·0	5
443	6	Piazzi V. 246.......	5. 46. (16.)	..	..	6·215	+0·0142	− 0·031	0·08286	0·13682	1·49437	0·08256	77·795	23. 0. 24·71	1860·1	2
444	Var.	58 Orionis .... α	5. 47. 35·59	1856·9	86	3·245	+0·0028	+ 0·001	0·08049	0·10282	1·45094	0·07935	84·325	82. 37. 21·95	1856·9	70
445	2*	34 Aurigæ .... β	5. 49. 15·70	1857·5	17	4·404	+0·0045	+ 0·001	0·08078	0·11195	1·46841	0·08031	82·175	45. 4. 18·30	1857·5	11
446	5·6*	139 Tauri..............	5. 49. 18·54	1856·6	3	+ 3·722	+0·0032	− 0·001	0·08043	0·10519	1·45821	0·07973	83·558	64. 4. 3·60	1855·6	5
447	3*	37 Aurigæ .... θ	5. 50. 10·57	1856·1	3	4·086	+0·0036	+ 0·004	0·08047	0·10844	1·46368	0·07997	82·862	52. 48. 5·53	1856·4	7
448	6	Groombridge 1004...	5. 50. (26.)	..	..	26·676	+0·3546	+ 0·289	0·09674	0·37637	1·71329	0·09671	26·043	3. 14. 23·47	1858·2	2
449	8	Piazzi V. 282.......	5. 50. 57·31	1854·1	2	3·115	+0·0024	..	0·08013	0·10266	1·44894	0·07922	84·527	88. 9. 41·13	1854·1	2
450	6*	59 Orionis	5. 51. 8·36	1854·1	2	3·114	+0·0024	+ 0·003	0·08011	0·10266	1·44893	0·07922	84·530	88. 10. 50·21	1854·1	2
451	6	35 Camelopardali	5. 53. 23·06	1854·2	3	+ 4·757	+0·0038	+ 0·003	0·08030	0·11635	1·47358	0·08006	81·473	38. 25. 42·79	1854·2	3
452	6*	64 Orionis .... χ³	5. 55. 10·17	1860·0	5	3·550	+0·0023	+ 0·010	0·07972	0·10407	1·45561	0·07936	83·922	70. 18. 40·22	1860·0	5
453	5*	62 Orionis.......... χ⁴	5. 55. 36·36	1859·1	5	3·562	+0·0022	0·000	0·07967	0·10414	1·45579	0·07935	83·905	69. 51. 44·59	1859·1	5
454	5*	1 Geminorum.........	5. 55. 36·66	1856·9	28	3·647	+0·0022	− 0·002	0·07968	0·10468	1·45708	0·07938	83·762	66. 43. 59·50	1856·7	22
455	6*	66 Orionis	5. 57. 34·63	1854·1	2	3·169	+0·0020	+ 0·001	0·07944	0·10272	1·44978	0·07920	84·507	85. 50. 13·08	1854·1	2
456	..	......	5. 58. 45·40	1854·8	3	+ 3·725	+0·0018	..	0·07933	0·10524	1·45826	0·07925	83·660	63. 57. 39·50	1854·8	3
457	5·4*	67 Orionis .... ν	5. 59. 34·71	1859·3	12	3·425	+0·0018	+ 0·001	0·07923	0·10345	1·45370	0·07919	84·162	75. 13. 7·03	1859·2	6
458	..	......	5. 59. 47·14	1855·2	2	3·724	+0·0016	..	0·07920	0·10522	1·45824	0·07919	83·674	64. 1. 8·73	1855·2	2
459	5*	18 Leporis .... θ	5. 59. 49·18	1859·1	4	2·716	+0·0021	+ 0·004	0·07920	0·10346	1·44272	0·07918	85·016	104. 55. 32·59	1859·1	4
460	..	......	5. 59. 58·61	1855·1	2	3·727	+0·0016	..	0·07918	0·10525	1·45828	0·07918	83·673	63. 54. 55·01	1855·1	2
461	..	......	6. 0. 24·89	1854·1	1	+ 3·643	+0·0016	..	0·07913	0·10466	1·45701	0·07920	83·819	66. 53. 9·62	1854·1	1
462	6	3 Geminorum.........	6. 1. 13·97	1856·1	3	3·643	+0·0015	+ 0·006	0·07904	0·10466	1·45702	0·07912	83·829	66. 52. 4·82	1856·6	2
463	8	Lalande 11684	6. 2. 11·75	1854·8	1	3·725	+0·0013	..	0·07893	0·10523	1·45826	0·07907	83·701	63. 57. 45·70	1854·8	1
464	..	......	6. 2. 14·27	1859·1	2	3·600	+0·0014	..	0·07893	0·10437	1·45636	0·07909	83·913	68. 28. 9·81	1859·1	2
465	6	5 Geminorum.........	6. 2. 57·17	1856·9	4	3·680	+0·0012	0·000	0·07884	0·10491	1·45758	0·07904	83·787	65. 33. 11·23	1856·9	4
466	5·4*	Piazzi V. 335, B.F. 834	6. 3. 24·77	1860·1	1	+ 6·622	−0·0037	+ 0·003	0·07817	0·14275	1·49998	0·07823	77·462	20. 38. 17·42	1859·2	5
467	3·4*	7 Geminorum....... η	6. 6. 25·65	1856·4	35	3·627	+0·0008	− 0·007	0·07845	0·10454	1·45678	0·07891	83·912	67. 27. 24·29	1856·3	49
468	5·4*	44 Aurigæ .... κ	6. 6. 27·45	1857·9	18	3·830	+0·0005	− 0·005	0·07839	0·10606	1·45984	0·07879	83·571	60. 27. 16·85	1858·1	23
469	6·5*	71 Orionis	6. 6. 36·63	1860·4	3	3·537	+0·0009	− 0·005	0·07844	0·10400	1·45541	0·07894	84·060	70. 47. 59·63	1860·4	3
470	5·4*	2 Lyncis	6. 7. 16·19	1859·1	4	5·301	−0·0033	+ 0·003	0·07769	0·12371	1·48146	0·07791	80·591	30. 56. 39·29	1859·1	4
471	6*	73 Orionis .... k¹	6. 7. 53·07	1854·1	2	+ 3·371	+0·0011	+ 0·005	0·07833	0·10321	1·45287	0·07900	84·320	77. 24. 32·08	1854·1	2
472	5·4*	5 Monocerotis	6. 8. 1·68	1859·1	5	2·926	+0·0016	+ 0·003	0·07833	0·10278	1·44601	0·07927	84·867	96. 14. 6·98	1859·1	5
473	4·5	Columbæ .... κ	6. 11. 34·31	1859·6	2	2·134	+0·0021	+ 0·001	0·07769	0·10768	1·43351	0·08004	85·449	125. 5. 51·30	1859·6	2
474	9	W. B. VI. 334	6. 11. 50·27	1854·6	2	2·732	+0·0017	..	0·07790	0·10336	1·44298	0·07950	85·070	104. 16. 51·13	1854·2	1
475	8	W. B. VI. 348	6. 12. 13·44	1855·2	1	2·732	+0·0017	..	0·07786	0·10336	1·44297	0·07951	85·073	104. 18. 27·74	1855·2	1
476	6*	7 Monocerotis	6. 12. 58·26	1854·9	7	+ 2·890	+0·0015	+ 0·004	0·07781	0·10283	1·44545	0·07937	84·935	97. 46. 2·83	1854·8	6
477	3*	13 Geminorum....... μ	6. 14. 29·43	1857·2	48	3·627	−0·0002	+ 0·005	0·07753	0·10451	1·45678	0·07855	84·003	67. 25. 7·10	1857·1	50
478	3·2*	1 Canis Majoris ..... ζ	6. 14. 56·40	1858·2	15	2·302	+0·0019	+ 0·002	0·07736	0·10613	1·43619	0·08009	85·380	120. 0. 13·65	1858·2	16
479	7	Piazzi VI. 78	6. 16. 6·30	1855·1	1	3·697	−0·0007	+ 0·001	0·07731	0·10498	1·45784	0·07838	83·911	64. 52. 55·01	1855·1	1
480	3·2*	2 Canis Majoris ..... β	6. 16. 32·16	1856·2	3	2·642	+0·0017	+ 0·001	0·07735	0·10376	1·44156	0·07974	85·170	107. 53. 22·60	1856·2	3

Annual Precession in N.P.D. for 1860, from Peters' Elements.	Secular Variation of Precession in N.P.D.	Annual Proper Motion in N.P.D. from Main or B.A.C.	Logarithms of e′	Logarithms of f′	Logarithms of g′	Logarithms of h′	Value of l′	No. in Bessel's Bradley. 1755.	No. in Lalande Fedorenko (F.) 1790, or British Association (B.A.) 1800.	Hour and No. in Piazzi. 1800.	No. in Groombridge. 1810.	Hour and No. in Weisse's Bessel. 1825.	No. in Argelander. 1830.	No. in Pond's 1112. 1830.	No. in First Cambridge Catalogue. 1830.	No. in Johnson's (St. Helena). 1830.	No. in Fallows. 1830.	No. in Struve. 1830.	No.
″	″	″					″												
− 1·22	+0·308	− 0·28	9·42160	0·09191	1·37616	0·34206	89·021	..	...	V. 267	..	V. ..	..	267	..	140	119	..	441
1·22	0·519	+ 0·10	0·05629	0·07151	1·37629	0·34206	68·570	856	11133 (B.A.)	259	..	..	136	265	..	..	..	..	442
1·20	0·905	− 0·05	0·28988	0·05876	1·37656	0·34207	49·131	..	799 (F.)	246	1032	..	..	..	..	..	..	..	443
1·09	0·473	0·00	9·95328	0·07666	1·37868	0·34213	74·062	860	11186 (B.A.)	268	..	..	137	269	124	..	120	656	444
0·94	0·642	+ 0·03	0·20366	0·06705	1·38132	0·34221	57·021	859	11202 (B.A.)	269	1050	.	138	270	125	..	..	657	445
− 0·94	+0·543	+ 0·01	0·09576	0·07173	1·38137	0·34221	65·492	862	11220 (B.A.)	273	..	..	..	..	126	..	..	..	446
0·86	0·596	+ 0·11	0·16388	0·06971	1·38276	0·34224	60·241	863	11236 (B.A.)	277	..	..	..	272	..	..	..	659	447
0·84	3·887	+ 0·10	0·33706	0·06375	1·38308	0·34225	42·753	..	767 (F.)	..	1004	..	..	254	..	..	..	..	448
0·79	0·454	..	9·90217	0·07873	1·38396	0·34227	76·042	..	11301 (B.A.)	282	..	1289	..	..	..	..	..	..	449
0·78	0·454	+ 0·04	9·90200	0·07874	1·38425	0·34228	76·029	869	11307 (B.A.)	283	..	1295	..	..	..	..	..	661	450
− 0·58	+0·694	+ 0·06	0·23383	0·07092	1·38777	0·34234	53·436	864	832 (F.)	291	1066	..	..	..	..	..	..	..	451
0·42	0·518	+ 0·04	0·05235	0·07660	1·39053	0·34238	67·488	878	11433 (B.A.)	304	..	..	..	..	..	..	..	..	452
0·38	0·520	+ 0·02	0·05565	0·07679	1·39122	0·34239	67·212	881	11447 (B.A.)	308	..	..	..	277	..	..	..	..	453
0·38	0·532	+ 0·11	0·07784	0·07644	1·39122	0·34239	65·746	880	11445 (B.A.)	307	..	..	..	276	128	..	..	..	454
0·21	0·462	+ 0·03	9·92423	0·07891	1·39426	0·34241	74·276	885	11527 (B.A.)	322	..	1461	..	..	..	..	..	..	455
− 0·11	+0·543	..	0·09656	0·07831	1·39604	0·34242	63·966	..	...	..	..	..	..	..	..	..	..	..	456
0·04	0·500	+ 0·02	0·01519	0·07901	1·39731	0·34242	69·165	887	11602 (B.A.)	332	..	1516	..	278	..	..	..	..	457
0·02	0·543	..	0·09621	0·07905	1·39765	0·34242	63·829	..	...	..	..	..	..	..	..	..	..	..	458
− 0·02	0·396	+ 0·01	9·71850	0·07925	1·39767	0·34242	81·939	892	11637 (B.A.)	336	..	1540	..	279	..	145	122	..	459
0·00	0·544	..	0·09691	0·07916	1·39791	0·34242	63·753	..	...	..	..	..	..	..	..	..	..	..	460
+ 0·04	+0·531	..	0·07682	0·07943	1·39855	0·34242	65·103	..	...	..	..	..	..	..	..	..	..	..	461
0·11	0·531	+ 0·05	0·07697	0·07995	1·39980	0·34242	64·970	891	11656 (B.A.)	340	..	..	..	..	..	..	..	..	462
0·19	0·543	..	0·09656	0·08065	1·40114	0·34241	63·453	..	11684 (B.A.)	..	..	..	..	..	..	..	..	..	463
0·20	0·525	..	0·06573	0·08047	1·40132	0·34241	65·594	..	...	..	..	..	..	..	..	..	..	..	464
0·26	0·537	+ 0·07	0·08597	0·08111	1·40240	0·34240	64·086	896	...	350	..	..	..	..	..	..	..	..	465
+ 0·30	+0·966	+ 0·09	0·29730	0·08420	1·40311	0·34240	44·722	..	...	335	1100	..	..	280	..	..	..	..	466
0·56	0·529	+ 0·02	0·07280	0·08306	1·40761	0·34235	64·502	909	11842 (B.A.)	VI. 22	..	..	..	286	133	..	..	..	467
0·56	0·558	+ 0·29	0·11909	0·08418	1·40763	0·34235	61·097	907	11831 (B.A.)	18	..	..	142	285	..	..	..	..	468
0·58	0·516	+ 0·26	0·04879	0·08260	1·40788	0·34234	66·106	911	11855 (B.A.)	23	..	..	..	..	134	..	124	..	469
0·64	0·772	− 0·03	0·26340	0·08892	1·40885	0·34232	47·720	902	870 (F.)	16	1123	..	..	287	..	..	..	699	470
+ 0·69	+0·491	0·00	9·99747	0·08189	1·40976	0·34231	69·143	916	...	32	..	..	143	..	..	..	..	..	471
0·70	0·426	+ 0·13	9·81961	0·07781	1·40999	0·34231	77·762	920	11925 (B.A.)	35	..	VI. 212	..	288	..	147	125	..	472
1·01	0·310	+ 0·03	9·43249	0·06856	1·41517	0·34218	87·774	..	...	65	..	..	..	289	..	148	..	..	473
1·04	0·398	..	9·72681	0·07455	1·41556	0·34216	80·781	..	...	..	..	334	..	..	..	..	..	..	474
1·07	0·398	..	9·72656	0·07438	1·41615	0·34214	80·761	..	...	..	..	348	..	..	..	..	..	..	475
+ 1·13	+0·420	− 0·02	9·80284	0·07641	1·41721	0·34211	77·992	928	...	69	..	366	..	..	..	..	..	..	476
1·27	0·527	+ 0·14	0·07284	0·08788	1·41940	0·34203	63·358	929	12136 (B.A.)	74	..	..	..	291	138	..	..	..	477
1·31	0·334	− 0·02	9·51228	0·06724	1·42006	0·34201	86·166	933	...	81	..	..	..	292	..	149	126	..	478
1·41	0·537	+ 0·10	0·09008	0·08983	1·42173	0·34194	61·864	..	12197 (B.A.)	78	..	..	..	..	..	..	..	..	479
1·45	0·384	+ 0·02	9·68187	0·07110	1·42235	0·34192	81·865	936	12241 (B.A.)	92	..	..	..	293	141	150	..	..	480

441. This star is identical with Lacaille 2029.
444. The limits of magnitude are 1·0 and 1·5; the period 196 days.
451. In the B. A. C. this star is placed in the constellation Auriga.
473. This star is identical with Lacaille 2213.
448. This star is identical with Schwerd 342.
469, 472. Bradley has no N.P.D.
478. This star is identical with Lacaille 2229.

The magnitudes of Stars taken from Argelander are marked with Asterisks. Other magnitudes are taken in the order of preference from the British Association Catalogue of 8377 Stars; from the Catalogue of Lalande published by the British Association; from Weisse's *Catalogus Stellarum ex Zonis Regiomontanis*; or, for the variable stars, from Mr. Pogson's lists in the "Radcliffe Observations, 1854 and 1856." The authorities for any remaining magnitudes are given in the Notes.

No.	Magnitude.	Star's Name.	Mean Right Ascension, 1860, Jan. 1, from Observations, 1854 to 1860.	Mean Year and Fraction of Year.	Number of Observations.	Annual Precession in R.A. for 1860, from Peters' Elements.	Secular Variation of Precession in R.A.	Annual Proper Motion in R.A. from Main or B.A.C.	Logarithms of e	Logarithms of f	Logarithms of g	Logarithms of h	Value of l	Mean North Polar Distance, 1860, Jan. 1, from Observations, 1854 to 1860.	Mean Year and Fraction of Year.	Number of Observations.
			h m s			s	s	s					s	° ′ ″		
481	4*	3 Canis Majoris.......	6. 16. 59·78	1857·8	3	+ 2·194	+ 0·0019	− 0·001	0·07703	0·10707	1·43447	0·08036	85·444	123. 22. 7·98	1857·8	3
482	9	Lalande 12237.......	6. 17. (28.)	..	..	3·710	− 0·0009	..	0·07715	0·10507	1·45804	0·07830	83·906	64. 24. 52·70	1857·0	1
483	..	......	6. 17. (31.)	..	..	3·712	− 0·0009	..	0·07714	0·10508	1·45806	0·07830	83·905	64. 21. 43·20	1857·0	1
484	8	Lalande 12240.......	6. 17. 33·55	1857·1	1	3·713	− 0·0009	..	0·07713	0·10509	1·45806	0·07829	83·905	64. 19. 32·21	1857·1	1
485	6	Groombridge 1151...	6. 18. (41.)	..	..	9·394	− 0·0609	..	0·06955	0·18248	1·53648	0·06976	71·974	11. 54. 13·31	1856·0	4
486	6·5*	48 Aurigæ.............	6. 19. 34·19	1858·6	2	+ 3·859	− 0·0018	+ 0·002	0·07678	0·10624	1·46028	0·07797	83·689	59. 25. 29·07	1858·6	2
487	6·7	9 Monocerotis	6. 20. 4·75	1856·8	4	2·972	+ 0·0010	+ 0·002	0·07705	0·10265	1·44673	0·07934	84·903	94. 16. 31·58	1856·8	4
488	5·4*	18 Geminorum....... ν	6. 20. 39·00	1858·0	2	3·565	− 0·0008	− 0·002	0·07686	0·10407	1·45583	0·07837	84·169	69. 42. 11·90	1859·5	4
489	9	Lalande 12395.......	6. 21. 51·44	1857·1	2	3·715	− 0·0016	..	0·07662	0·10506	1·45810	0·07807	83·954	64. 13. 41·05	1857·1	2
490	5·6	Piazzi VI. 75........	6. 22. 15·72	1860·8	1	10·398	− 0·0947	+ 0·041	0·06586	0·19620	1·54897	0·06608	70·043	10. 17. 44·23	1860·8	1
491	4·5	Piazzi VI. 136	6. 22. 58·75	1859·4	3	+ 2·225	+ 0·0018	+ 0·001	0·07631	0·10675	1·43496	0·08071	85·457	122. 29. 37·52	1859·4	3
492	6·7	19 Geminorum.........	6. 23. 34·31	1855·0	4	3·453	− 0·0007	+ 0·003	0·07660	0·10346	1·45413	0·07848	84·357	74. 0. 8·69	1855·0	4
493	8·9	Lalande 12473.......	6. 23. 46·80	1859·0	1	3·551	− 0·0011	..	0·07651	0·10397	1·45562	0·07828	84·223	70. 11. 10·77	1859·0	1
494	8	W. B. VI. 732.......	6. 24. 43·33	1857·1	1	3·187	+ 0·0002	..	0·07657	0·10262	1·45004	0·07896	84·707	85. 4. 46·97	1857·1	1
495	5*	12 Monocerotis.........	6. 24. 53·44	1856·6	4	3·187	+ 0·0002	0·000	0·07655	0·10262	1·45005	0·07895	84·709	85. 2. 49·44	1856·6	4
496	6·5*	49 Aurigæ.............	6. 26. 23·00	1856·3	7	+ 3·782	− 0·0026	0·000	0·07603	0·10554	1·45912	0·07770	83·904	61. 52. 21·61	1856·3	5
497	..	......	6. 26. 42·25	1859·2	2	3·410	− 0·0008	..	0·07628	0·10323	1·45346	0·07847	84·450	75. 44. 32·37	1859·2	2
498	5·6	Piazzi VI. 164	6. 27. 24·68	1860·2	4	2·245	+ 0·0017	+ 0·021	0·07577	0·10653	1·43528	0·08097	85·468	121. 55. 44·62	1860·2	4
499	7	Rümker 1926........	6. 28. 2·52	1857·1	1	3·989	− 0·0041	..	0·07559	0·10735	1·46223	0·07715	83·591	55. 21. 54·60	1857·1	1
500	..	Gr. 12-yr. Cat. No. 578	6. 28. 37·92	1857·2	1	3·987	− 0·0042	..	0·07551	0·10733	1·46221	0·07710	83·602	55. 23. 47·86	1857·2	1
501	2·3*	24 Geminorum....... γ	6. 29. 37·41	1857·4	25	+ 3·465	− 0·0014	+ 0·001	0·07593	0·10345	1·45431	0·07826	84·406	73. 29. 6·24	1857·2	15
502	7·8	Piazzi VI. 168.......	6. 29. 44·31	1855·1	1	3·678	− 0·0025	..	0·07573	0·10473	1·45755	0·07775	84·104	65. 25. 57·38	1855·1	1
503	8	Canis Maj. ν^1 (1st Star)	6. 30. 13·82	1859·2	2	2·627	+ 0·0013	..	0·07582	0·10371	1·44134	0·08025	85·261	108. 32. 54·77	1859·2	2
504	6·7	6 Canis Maj. ν^1 (2d Star)	6. 30. 15·06	1859·4	7	2·627	+ 0·0013	+ 0·003	0·07582	0·10371	1·44134	0·08025	85·261	108. 32. 51·73	1859·5	6
505	..	Gr. 12-yr. Cat. No. 580	6. 30. 16·45	1857·2	1	3·985	− 0·0045	..	0·07530	0·10729	1·46217	0·07698	83·631	55. 26. 43·14	1857·1	2
506	5*	7 Canis Majoris .... ν^2	6. 30. 34·68	1858·8	4	+ 2·612	+ 0·0014	+ 0·006	0·07577	0·10378	1·44110	0·08029	85·276	109. 8. 20·89	1858·8	4
507	6*	54 Aurigæ.............	6. 30. 43·38	1858·1	5	3·788	− 0·0033	+ 0·001	0·07551	0·10554	1·45921	0·07744	83·951	61. 37. 2·65	1858·1	5
508	4*	15 Monocerotis.........	6. 33. 16·13	1855·7	3	3·306	− 0·0009	+ 0·005	0·07562	0·10277	1·45188	0·07857	84·645	79. 58. 42·94	1855·7	3
509	5*	Cephei 51 (Hev.)....	6. 33. 39·28	1857·6	148	30·591	− 1·7315	− 0·027	9·99862	0·41057	1·74500	9·99873	29·100	2. 45. 5·98	1857·7	283
510	6	Piazzi VI. 203.......	6. 33. 53·49	1855·2	3	3·086	− 0·0001	− 0·007	0·07561	0·10242	1·44850	0·07914	84·896	89. 22. 39·83	1855·2	3
511	3·4*	27 Geminorum ...... ε	6. 35. 19·00	1856·3	12	+ 3·696	− 0·0034	0·000	0·07506	0·10477	1·45781	0·07743	84·149	64. 44. 3·31	1856·4	11
512	6*	28 Geminorum.........	6. 35. 53·09	1856·8	7	3·807	− 0·0043	+ 0·003	0·07485	0·10564	1·45950	0·07708	83·990	60. 53. 29·57	1856·8	7
513	9	Lalande 12939.......	6. 36. 48·16	1856·2	1	3·768	− 0·0041	..	0·07480	0·10531	1·45892	0·07715	84·059	62. 11. ...	..	..
514	6*	57 Aurigæ.............	6. 36. 58·82	1860·1	3	4·587	− 0·0118	+ 0·003	0·07324	0·11400	1·47109	0·07471	82·708	41. 4. 3·58	1860·1	3
515	4·3*	31 Geminorum .... ξ	6. 37. 25·86	1860·1	5	3·378	− 0·0017	− 0·007	0·07514	0·10296	1·45298	0·07827	84·600	76. 57. 25·31	1860·1	5
516	6·7	32 Geminorum.........	6. 38. 2·36	1854·1	2	+ 3·373	− 0·0017	+ 0·005	0·07507	0·10293	1·45290	0·07827	84·613	77. 9. 51·26	1854·1	2
517	1*	9 Canis Majoris ..... α	6. 38. 58·66	1857·1	78	2·681	+ 0·0010	− 0·035	0·07490	0·10330	1·44218	0·08040	85·280	106. 31. 36·23	1856·9	78
518	5*	18 Monocerotis	6. 40. 33·62	1854·1	2	3·131	− 0·0006	+ 0·007	0·07491	0·10233	1·44918	0·07899	84·908	87. 26. 16·59	1854·1	2
519	5*	58 Aurigæ.............	6. 40. 51·75	1856·2	5	4·254	− 0·0093	− 0·005	0·07339	0·10999	1·46619	0·07532	83·353	48. 3. 30·98	1856·1	2
520	6*	33 Geminorum.........	6. 41. 46·31	1854·8	5	3·458	− 0·0026	+ 0·002	0·07460	0·10323	1·45420	0·07790	84·546	73. 38. 30·08	1854·8	5

481. This star is identical with Lacaille 2244.
485. This star is identical with Schwerd 375.
490. This star is identical with Schwerd 378.
491. This star is identical with Lacaille 2295.
498. This star is identical with Lacaille 2330.
499. The magnitude is taken from Rümker.
502, 503. The magnitudes are taken from Piazzi.
509. In the B. A. C. this star is placed in the constellation Ursa Minor; it is identical with Schwerd 379.

Annual Precession in N.P.D. for 1860, from Peters' Elements.	Secular Variation of Precession in N.P.D.	Annual Proper Motion in N.P.D. from Main or B.A.C.	Logarithms of c′	Logarithms of f′	Logarithms of g′	Logarithms of h′	Value of l′	No. in Bessel's Bradley. 1755.	No. in Lalande Fedorenko (F.) 1790, or British Association (B.A.) 1800.	Hour and No. in Piazzi. 1800.	No. in Groombridge. 1810.	Hour and No. in Weisse's Bessel. 1825.	No. in Argelander. 1830.	No. in Pond's 1112. 1830.	No. in First Cambridge Catalogue. 183	No. in Johnson's (St. Helena). 1830.	No. in Fallows. 1830.	No. in Struve. 1830.	No.
″	″	″					″			VI.		VI.							
+ 1·49	+ 0·318	+ 0·06	9·46105	0·06417	1·42303	0·34188	87·076	939	...	95	..	..	..	294	..	151	127	..	481
1·53	0·539	..	0·09314	0·09092	1·42369	0·34186	61·438	..	12237 (B.A.)	..	..	..	..	..	..	..	..	..	482
1·53	0·539	..	0·09349	0·09097	1·42377	0·34185	61·404	..	...	..	..	..	..	..	..	..	..	..	483
1·53	0·539	..	0·09370	0·09101	1·42381	0·34185	61·383	..	12240 (B.A.)	..	..	..	..	..	..	..	..	..	484
1·63	1·365	..	0·31927	0·10710	1·42542	0·34177	38·986	..	{ 896 (F.) 12071 (B.A.) }	..	1151	..	..	..	..	..	..	..	485
+ 1·71	+ 0·560	+ 0·04	0·12486	0·09460	1·42667	0·34171	58·626	938	12308 (B.A.)	98	..	..	..	..	142	..	..	..	486
1·76	0·431	0·00	9·84067	0·07681	1·42741	0·34167	75·829	945	12364 (B.A.)	111	..	596	..	..	..	..	..	..	487
1·81	0·517	+ 0·01	0·05633	0·09033	1·42821	0·34163	63·692	942	12361 (B.A.)	109	..	..	..	296	146	..	..	..	488
1·91	0·538	..	0·09409	0·09390	1·42990	0·34154	60·739	..	12395 (B.A.)	..	..	..	..	..	..	..	..	..	489
1·95	1·508	+ 0·61	0·32255	0·11249	1·43056	0·34149	37·847	..	905 (F.)	75	1159	..	..	..	..	..	..	..	490
+ 2·01	+ 0·322	− 0·08	9·47625	0·05926	1·43150	0·34143	86·576	..	...	136	..	..	..	297	..	153	..	..	491
2·06	0·500	− 0·01	0·02412	0·08930	1·43231	0·34138	65·526	953	...	130	..	..	..	..	..	..	..	..	492
2·08	0·514	..	0·05269	0·09171	1·43261	0·34136	63·538	..	12473 (B.A.)	..	..	..	..	..	..	..	..	..	493
2·16	0·461	..	9·93090	0·08251	1·43391	0·34128	71·001	..	12525 (B.A.)	..	..	732	..	..	..	..	..	..	494
2·17	0·461	+ 0·09	9·93120	0·08255	1·43414	0·34126	70·967	957	12531 (B.A.)	140	..	739	..	..	..	..	..	..	495
+ 2·30	+ 0·547	+ 0·02	0·10914	0·09835	1·43622	0·34112	58·904	959	12553 (B.A.)	146	..	..	..	..	..	..	..	..	496
2·33	0·493	..	0·01026	0·08942	1·43666	0·34108	66·059	..	...	..	..	..	..	..	..	..	..	..	497
2·39	0·324	+ 0·11	9·48643	0·05572	1·43764	0·34101	86·222	..	...	164	..	..	..	..	..	..	..	..	498
2·45	0·576	..	0·14833	0·10358	1·43849	0·34095	55·338	..	...	..	..	..	..	..	..	..	..	..	499
2·50	0·576	..	0·14805	0·10406	1·43932	0·34088	55·272	..	...	..	..	..	..	..	..	..	..	..	500
+ 2·59	+ 0·500	+ 0·04	0·02772	0·09225	1·44067	0·34077	64·543	969	12680 (B.A.)	169	..	..	..	300	152	..	130	..	501
2·60	0·531	..	0·08554	0·09822	1·44083	0·34076	60·309	..	12677 (B.A.)	168	..	..	..	..	..	..	..	..	502
2·64	0·379	..	9·67504	0·06376	1·44151	0·34071	81·267	..	...	178	..	..	..	..	..	..	..	..	503
2·64	0·379	− 0·01	9·67504	0·06375	1·44153	0·34070	81·268	975	...	179	..	..	..	..	..	..	..	757	504
2·64	0·575	..	0·14761	0·10540	1·44156	0·34070	55·061	..	...	..	..	..	..	..	..	..	..	..	505
+ 2·67	+ 0·376	+ 0·03	9·66755	0·06311	1·44199	0·34067	81·482	978	12740 (B.A.)	180	..	..	..	302	..	155	..	..	506
2·68	0·546	+ 0·04	0·11035	0·10159	1·44216	0·34066	58·186	970	12709 (B.A.)	173	..	..	..	..	..	..	..	..	507
2·90	0·476	+ 0·09	9·97534	0·08819	1·44561	0·34035	67·533	981	...	193	..	993	..	..	..	..	..	761	508
2·93	4·412	+ 0·08	0·33592	0·12909	1·44613	0·34030	33·912	..	860 (F.)	21	1141	..	..	295	143	..	..	..	509
2·95	0·444	+ 0·07	9·89025	0·07976	1·44645	0·34027	72·269	..	12855 (B.A.)	203	..	1016	..	..	..	..	..	..	510
+ 3·08	+ 0·531	+ 0·02	0·08969	0·10227	1·44837	0·34008	59·229	983	12882 (B.A.)	204	..	..	..	307	155	..	..	765	511
3·13	0·547	+ 0·03	0·11448	0·10581	1·44913	0·34001	57·115	986	12897 (B.A.)	207	..	..	..	308	..	..	..	..	512
3·21	0·541	..	0·10616	0·10538	1·45035	0·33988	57·685	..	12939 (B.A.)	..	..	..	..	..	..	..	..	..	513
3·22	0·659	+ 0·04	0·21987	0·12095	1·45059	0·33986	46·951	984	{ 970 (F.) 12906 (B.A.) }	210	1220	..	..	..	..	..	..	..	514
3·26	0·485	+ 0·22	0·00004	0·09228	1·45119	0·33979	65·497	989	12964 (B.A.)	217	..	1124	..	311	..	..	..	..	515
+ 3·31	+ 0·484	− 0·02	9·99826	0·09227	1·45201	0·33970	65·549	990	12988 (B.A.)	218	..	1144	..	..	..	..	..	..	516
3·40	0·384	+ 1·24	9·70200	0·06139	1·45324	0·33957	79·902	994	13035 (B.A.)	227	..	..	148	312	157	157	133	773	517
3·53	0·448	+ 0·03	9·90881	0·08203	1·45533	0·33932	70·692	995	13075 (B.A.)	234	..	..	..	314	..	..	..	..	518
3·56	0·609	+ 0·13	0·18617	0·12011	1·45571	0·33928	49·784	992	13047 (B.A.)	229	1224	..	..	..	..	..	..	..	519
3·64	0·494	− 0·06	0·02559	0·09729	1·45690	0·33914	63·257	997	13108 (B.A.)	240	..	..	..	..	159	..	134	..	520

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No.	Magnitude.	Star's Name.	Mean Right Ascension, 1860, Jan. 1, from Observations, 1854 to 1860.	Mean Year and Fraction of Year.	Number of Observations.	Annual Precession in R.A. for 1860, from Peters' Elements.	Secular Variation of Precession in R.A.	Annual Proper Motion in R.A. from Main or B.A.C.	Logarithms of e	f	g	h	Value of l	Mean North Polar Distance, 1860, Jan. 1, from Observations, 1854 to 1860.	Mean Year and Fraction of Year.	Number of Observations.
			h m s			s	s	s					s	° ′ ″		
521	6*	36 Geminorum ...... d	6. 43. 9·55	1855·6	7	+ 3·601	−0·0038	+0·007	0·07428	0·10400	1·45638	0·07736	84·378	68. 4. 39·87	1855·6	8
522	6	Lacaille 2470	6. 44. 30·14	1860·1	7	2·399	+0·0014	+0·022	0·07392	0·10500	1·43773	0·08157	85·480	117. 10. 28·29	1860·1	7
523	4*	13 Canis Majoris..... κ	6. 44. 36·58	1854·1	3	2·241	+0·0015	−0·002	0·07362	0·10633	1·43523	0·08212	85·553	122. 20. 56·17	1854·1	3
524	..	......	6. 44. 47·40	1859·2	2	3·561	−0·0036	..	0·07416	0·10373	1·45577	0·07743	84·448	69. 33. 56·72	1859·2	2
525	6	Groombridge 1228...	6. 45. (25.)	..	..	6·877	−0·0616	..	0·06436	0·14631	1·50347	0·06517	78·692	19. 0. 40·63	1860·2	2
526	6	37 Geminorum.........	6. 46. 42·05	1855·9	7	+ 3·698	−0·0050	−0·001	0·07374	0·10461	1·45785	0·07685	84·289	64. 27. 12·03	1855·9	7
527	5*	38 Geminorum....... e	6. 46. 44·64	1854·1	3	3·383	−0·0025	+0·003	0·07413	0·10281	1·45306	0·07802	84·690	76. 38. 53·22	1854·1	3
528	4·5*	14 Canis Majoris ..... θ	6. 47. 41·13	1857·2	38	2·797	+0·0005	−0·010	0·07406	0·10266	1·44400	0·08023	85·257	101. 51. 58·59	1856·2	21
529	6	Piazzi VI. 278	6. 47. 59·59	1860·1	5	2·366	+0·0014	+0·035	0·07345	0·10520	1·43722	0·08188	85·514	118. 21. 6·52	1860·1	5
530	5*	16 Canis Majoris .... ο¹	6. 48. 19·40	1854·1	3	2·490	+0·0012	−0·001	0·07362	0·10427	1·43917	0·08143	85·454	114. 0. 42·20	1854·1	3
531	5*	18 Canis Majoris..... μ	6. 49. 41·73	1859·8	10	+ 2·750	+0·0006	0·000	0·07380	0·10280	1·44326	0·08046	85·304	103. 51. 54·81	1859·8	10
532	5·4*	20 Canis Majoris ..... ι	6. 49. 53·61	1857·6	13	2·676	+0·0008	−0·002	0·07370	0·10313	1·44210	0·08076	85·355	106. 52. 32·89	1857·6	13
533	7	Piazzi VI. 294......	6. 51. 48·18	1854·1	3	3·449	−0·0035	+0·007	0·07351	0·10300	1·45406	0·07762	84·668	73. 52. 14·57	1854·1	3
534	2·1*	21 Canis Majoris ..... ε	6. 53. 7·45	1856·3	28	2·357	+0·0013	0·000	0·07282	0·10518	1·43707	0·08222	85·546	118. 47. 2·40	1856·3	24
535	6*	Piazzi VI. 313	6. 55. 38·65	1854·1	3	3·285	−0·0026	+0·019	0·07326	0·10229	1·45156	0·07823	84·890	80. 39. 43·60	1854·1	3
536	8	Geminorum ...... ζ¹	6. 55. 47·44	1860·1	1	+ 3·565	−0·0050	..	0·07292	0·10353	1·45583	0·07696	84·574	69. 12. 9·90	1860·1	1
537	4*	43 Geminorum ...... ζ²	6. 55. 48·27	1858·4	19	3·564	−0·0050	−0·001	0·07292	0·10353	1·45582	0·07696	84·575	69. 13. 41·65	1858·4	20
538	5·4*	22 Canis Majoris.......	6. 56. 8·51	1854·1	3	2·390	+0·0013	−0·003	0·07252	0·10486	1·43759	0·08225	85·549	117. 44. 13·16	1854·1	3
539	6	17 Lyncis (1st Star)	6. 57. 4·49	1857·7	2	5·410	−0·0357	−0·001	0·06674	0·12491	1·48302	0·06832	81·765	28. 59. 36·16	1857·9	16
540	3·4*	24 Canis Majoris .... ο²	6. 57. 10·75	1855·0	6	2·505	+0·0011	−0·001	0·07263	0·10398	1·43941	0·08178	85·500	113. 37. 52·77	1855·1	5
541	7·8	17 Lyncis (2nd Star) ...	6. 57. 11·56	1856·2	1	+ 5·405	−0·0357	..	0·06672	0·12487	1·48295	0·06832	81·776	29. 2. 28·75	1856·2	1
542	4·5*	23 Canis Majoris..... γ	6. 57. 25·47	1857·7	15	2·715	+0·0005	+0·002	0·07293	0·10278	1·44271	0·08083	85·382	105. 25. 45·04	1857·2	14
543	6	Piazzi VI. 285	6. 58. (34.)	..	..	11·728	−0·3403	−0·088	0·03581	0·21388	1·56500	0·03631	70·688	8. 30. 2·64	1860·7	6
544	Var.	Lalande 13739	6. 58. 55·47	1860·2	3	3·619	−0·0059	..	0·07247	0·10381	1·45665	0·07658	84·547	67. 5. 4·36	1860·2	3
545	6*	45 Geminorum.........	7. 0. 20·20	1854·1	3	3·446	−0·0043	0·000	0·07259	0·10278	1·45402	0·07736	84·768	73. 50. 57·78	1854·1	3
546	7	Piazzi VI. 330	7. 0. 23·97	1860·1	2	+ 3·828	−0·0085	+0·019	0·07183	0·10537	1·45982	0·07548	84·300	59. 38. 1·71	1860·1	2
547	Var.	Lalande 13825	7. 1. 0·46	1860·2	2	3·305	−0·0031	..	0·07268	0·10222	1·45186	0·07804	84·925	79. 45. 30·67	1860·2	2
548	4·5	Piazzi VI. 292	7. 1. 24·01	1860·1	3	13·093	−0·4680	+0·009	0·02602	0·23138	1·58085	0·02646	68·582	7. 19. 55·46	1859·3	7
549	5·4*	46 Geminorum....... τ	7. 2. 13·51	1858·1	5	3·830	−0·0088	−0·003	0·07160	0·10534	1·45984	0·07536	84·324	59. 31. 46·50	1858·1	5
550	2*	25 Canis Majoris..... δ	7. 2. 41·95	1857·0	32	2·439	+0·0011	0·000	0·07186	0·10432	1·43837	0·08237	85·565	116. 10. 24·65	1856·9	28
551	6*	20 Monocerotis	7. 3. 16·49	1857·1	6	+ 2·982	−0·0009	+0·005	0·07253	0·10185	1·44687	0·07965	85·239	94. 1. 18·71	1857·1	6
552	6	48 Geminorum.........	7. 3. 55·86	1856·3	6	3·654	−0·0069	+0·004	0·07183	0·10393	1·45718	0·07616	84·569	65. 38. 28·08	1856·5	8
553	4·5*	22 Monocerotis	7. 4. 42·83	1854·1	3	3·066	−0·0015	+0·004	0·07241	0·10176	1·44818	0·07922	85·181	90. 15. 50·78	1854·1	3
554	7	Piazzi VII. 11	7. 4. 49·07	1859·8	3	3·426	−0·0046	+0·010	0·07214	0·10257	1·45371	0·07732	84·839	74. 35. 26·28	1860·1	2
555	6*	51 Geminorum	7. 5. 19·78	1859·4	4	3·450	−0·0049	+0·002	0·07204	0·10268	1·45408	0·07718	84·819	73. 36. 25·58	1859·1	3
556	6	53 Geminorum.........	7. 7. 12·45	1855·8	6	+ 3·757	−0·0087	+0·002	0·07120	0·10462	1·45874	0·07544	84·485	61. 51. 47·17	1855·8	6
557	6·7	24 Monocerotis	7. 8. 9·50	1854·1	4	3·074	−0·0018	+0·005	0·07204	0·10166	1·44830	0·07918	85·207	89. 55. 16·71	1854·1	4
558	6*	64 Aurigæ	7. 8. 17·83	1856·1	7	4·188	−0·0155	−0·003	0·06967	0·10877	1·46520	0·07295	83·937	48. 52. 19·95	1856·1	4
559	6·5*	27 Canis Majoris.......	7. 8. 32·80	1859·1	3	2·446	+0·0011	+0·002	0·07119	0·10413	1·43847	0·08265	85·598	116. 6. 48·22	1859·1	3
560	8·9	Lalande (F) 1055 ...	7. 9. 39·58	1860·0	1	7·336	−0·1165	−0·022	0·05322	0·15290	1·50969	0·05435	79·055	16. 39. 25·16	1860·0	1

Annual Precession in N.P.D. for 1860, from Peters' Elements.	Secular Variation of Precession in N.P.D.	Annual Proper Motion in N.P.D. from Main or B.A.C.	Logarithms of e′	f′	g′	h′	Value of l′	No. in Bessel's Bradley. 1755.	No. in Lalande Fedorenko (F.) 1790, or British Association (B.A.) 1800.	Hour and No. in Piazzi. 1800.	No. in Groombridge. 1810.	Hour and No. in Weisse's Bessel. 1825.	No. in Argelander. 1830.	No. in Pond's 1112. 1830.	No. in First Cambridge Catalogue. 1830.	No. in Johnson's (St. Helena). 1830.	No. in Fallows. 1830.	No. in Struve. 1830.	No.
″	″	″					″			VI.		VI.							
+ 3·76	+0·514	+ 0·02	0·06599	0·10376	1·45871	0·33892	60·086	1004	...	247	..	..	..	..	161	..	..	..	521
3·87	0·342	− 0·20	9·56336	0·04606	1·46047	0·33869	83·880	..	...	..	..	..	..	..	..	..	..	..	522
3·88	0·319	+ 0·03	9·48911	0·04000	1·46059	0·33868	85·695	1008	...	259	..	..	..	317	..	158	135	..	523
3·89	0·508	..	0·05534	0·10305	1·46081	0·33865	60·710	..	...	..	..	..	..	..	..	..	..	..	524
3·95	0·982	..	0·29787	0·14180	1·46163	0·33854	36·461	..	...	..	1228	..	..	..	..	..	..	..	525
+ 4·06	+0·526	− 0·01	0·09022	0·10967	1·46327	0·33832	57·692	1007	13299 (B.A.)	264	..	..	..	..	162	..	..	..	526
4·06	0·481	+ 0·06	0·00169	0·09579	1·46334	0·33831	64·375	1009	13310 (B.A.)	266	..	..	..	..	..	..	..	786	527
4·14	0·397	+ 0·03	9·75899	0·06353	1·46453	0·33814	77·278	1011	13373 (B.A.)	274	..	..	..	319	..	160	..	..	528
4·17	0·336	+ 0·33	9·54851	0·04189	1·46493	0·33809	84·171	..	...	278	..	..	..	..	..	..	..	..	529
4·20	0·353	− 0·01	9·60810	0·04720	1·46536	0·33804	82·504	1014	13406 (B.A.)	279	..	..	..	320	..	162	..	..	530
+ 4·32	+0·390	+ 0·01	9·73608	0·06011	1·46709	0·33778	78·081	1017	13450 (B.A.)	286	..	..	..	..	..	..	..	795	531
4·33	0·379	− 0·01	9·70001	0·05586	1·46735	0·33774	79·429	1019	13460 (B.A.)	289	..	..	..	321	..	163	..	..	532
4·50	0·488	+ 0·04	0·02284	0·10115	1·46975	0·33738	62·334	..	13488 (B.A.)	294	..	..	..	..	..	..	..	..	533
4·61	0·333	+ 0·02	9·54543	0·03718	1·47139	0·33712	84·126	1023	...	304	..	..	..	322	170	164	138	..	534
4·82	0·463	+ 0·10	9·96811	0·09307	1·47454	0·33660	65·740	..	13641 (B.A.)	313	..	1707	..	..	..	..	..	..	535
+ 4·83	+0·503	..	0·05652	0·10910	1·47470	0·33656	59·322	..	13634 (B.A.)	311	..	..	..	..	172	..	..	..	536
4·84	0·503	+ 0·01	0·05626	0·10908	1·47474	0·33656	59·338	1024	13635 (B.A.)	312	..	..	..	323	173	..	..	..	537
4·86	0·336	+ 0·01	9·56158	0·03628	1·47516	0·33649	83·620	1027	...	320	..	..	..	325	..	165	139	..	538
4·94	0·763	+ 0·06	0·26418	0·15092	1·47629	0·33629	38·519	1022	1016 (F.)	308	1264	..	..	..	..	..	..	..	539
4·95	0·352	+ 0·01	9·61700	0·04179	1·47643	0·33627	81·956	1029	13714 (B.A.)	323	..	..	..	326	..	166	..	..	540
+ 4·95	+0·762	..	0·26401	0·15105	1·47645	0·33626	38·517	..	1020 (F.)	310	..	..	..	..	..	..	..	..	541
4·97	0·381	+ 0·01	9·71925	0·05462	1·47673	0·33621	78·366	1028	13717 (B.A.)	325	..	..	..	327	..	167	140	..	542
5·07	1·653	+ 0·01	0·32073	0·16138	1·47815	0·33596	31·156	..	1004 (F.)	285	1255	..	..	..	..	..	..	..	543
5·10	0·508	..	0·07074	0·11362	1·47857	0·33588	57·803	..	13739 (B.A.)	..	..	..	..	..	..	..	..	..	544
5·22	0·483	+ 0·07	0·02193	0·10461	1·48026	0·33557	61·497	1030	13796 (B.A.)	333	..	..	..	..	..	..	141	..	545
+ 5·23	+0·537	+ 0·19	0·11850	0·12441	1·48036	0·33556	53·457	..	13783 (B.A.)	330	..	..	..	..	..	..	..	..	546
5·28	0·463	..	9·97516	0·09577	1·48109	0·33542	64·772	..	13825 (B.A.)	..	..	1911	..	..	..	..	..	..	547
5·31	1·839	+ 0·02	0·32243	0·16511	1·48157	0·33532	30·432	..	1007 (F.)	292	1259	..	..	324	..	..	..	..	548
5·38	0·536	+ 0·05	0·11876	0·12580	1·48258	0·33512	53·199	1033	13886 (B.A.)	341	..	..	..	329	179	..	..	..	549
5·42	0·340	− 0·01	9·58647	0·03377	1·48314	0·33502	82·758	1042	...	VII. 2	..	..	..	330	..	168	143	..	550
+ 5·47	+0·416	− 0·23	9·84491	0·07221	1·48384	0·33488	72·371	1041	13921 (B.A.)	4	..	VII. 59	153	..	..	..	..	..	551
5·52	0·510	+ 0·01	0·07965	0·11847	1·48463	0·33473	56·464	1038	13920 (B.A.)	3	..	..	..	..	..	..	..	..	552
5·59	0·427	+ 0·01	9·88173	0·07872	1·48555	0·33454	70·276	1047	13971 (B.A.)	15	..	114	..	331	..	170	..	..	553
5·60	0·477	+ 0·02	0·01561	0·10521	1·48567	0·33451	61·509	1044	13961 (B.A.)	11	..	..	..	..	..	..	..	..	554
5·64	0·480	+ 0·03	0·02309	0·10701	1·48629	0·33438	60·891	1046	13977 (B.A.)	17	..	..	..	332	182	..	..	..	555
+ 5·80	+0·522	0·00	0·10336	0·12590	1·48851	0·33391	53·987	1050	14033 (B.A.)	25	..	..	..	..	..	..	..	..	556
5·88	0·426	+ 0·08	9·88508	0·07934	1·48965	0·33367	69·844	1055	14093 (B.A.)	38	..	..	..	..	..	..	..	..	557
5·89	0·581	0·00	0·17667	0·14400	1·48981	0·33364	46·655	1052	14061 (B.A.)	32	1289	..	..	333	..	..	..	..	558
5·91	0·338	− 0·03	9·59073	0·02951	1·49008	0·33358	82·518	1059	...	45	..	..	..	334	..	171	..	..	559
6·00	1·018	..	0·29883	0·17223	1·49138	0·33329	32·028	1035	1055 (F.)	..	..	..	..	..	..	..	..	..	560

523. This star is identical with Lacaille 2474.
534. This star is identical with Lacaille 2550.
541. The magnitude is taken from Piazzi.
544. This star is the variable R Geminorum; the limits of magnitude are 7 and 11; the period 370 days.
547. This star is the variable R Canis Minoris; the maximum magnitude is the 8th.
550. This star is identical with Lacaille 2633.
529. This star is identical with Lacaille 2501.
538. This star is identical with Lacaille 2581.
543. This star is identical with Schwerd 403.
559. This star is identical with Lacaille 2674.
530. This star is identical with Lacaille 2506.
540. This star is identical with Lacaille 2588.
548. This star is identical with Schwerd 407.
560. This star is identical with Schwerd 420.

The magnitudes of Stars taken from Argelander are marked with Asterisks. Other magnitudes are taken in the order of preference from the British Association Catalogue of 8377 Stars; from the Catalogue of Lalande published by the British Association; from Weisse's *Catalogus Stellarum ex Zonis Regiomontanis*; or, for the variable stars, from Mr. Pogson's lists in the "Radcliffe Observations, 1854 and 1856." The authorities for any remaining magnitudes are given in the Notes.

No.	Magnitude.	Star's Name.	Mean Right Ascension, 1860, Jan. 1, from Observations, 1854 to 1860.	Mean Year and Fraction of Year.	Number of Observations.	Annual Precession in R.A. for 1860, from Peters' Elements.	Secular Variation of Precession in R.A.	Annual Proper Motion in R.A. from Main or B.A.C.	Logarithms of e	Logarithms of f	Logarithms of g	Logarithms of h	Value of l	Mean North Polar Distance, 1860, Jan. 1, from Observations, 1854 to 1860.	Mean Year and Fraction of Year.	Number of Observations.
			h m s			s	s	s					s	° ′ ″		
561	9	Lalande (F.) 1058 ...	7. 9. 46·79	1860·0	1	+ 7·336	−0·1167	− 0·022	0·05317	0·15289	1·50968	0·05431	79·062	16. 39. 21·04	1860·0	1
562	4·3*	54 Geminorum .... λ	7. 10. 2·75	1859·1	5	3·457	−0·0054	− 0·002	0·07152	0·10257	1·45418	0·07698	84·869	73. 12. 38·77	1859·1	5
563	6	Groombridge 1119...	7. 10. 9·16	1857·1	5	77·783	−26·2432	..	† ..	..	..	..	..	0. 58. 39·18	1857·1	5
564	8	Lalande 14177	7. 11. 1·75	1855·1	5	3·594	−0·0071	..	0·07115	0·10333	1·45627	0·07615	84·732	67. 43. 26·95	1854·1	4
565	..	......	7. 11. 45·33	1857·2	4	3·592	−0·0072	..	0·07108	0·10330	1·45624	0·07613	84·741	67. 45. 55·86	1856·9	5
566	3·4*	55 Geminorum .... δ	7. 11. 45·56	1857·1	59	+ 3·592	−0·0072	0·000	0·07108	0·10330	1·45624	0·07613	84·741	67. 45. 49·35	1856·7	52
567	3	Argûs .... π	7. 12. 12·05	1854·8	3	2·119	+0·0011	+ 0·023	0·06974	0·10695	1·43328	0·08475	85·734	126. 50. 52·24	1854·9	4
568	6·7	59 Geminorum	7. 15. 50·57	1856·2	3	3·742	−0·0098	− 0·001	0·07021	0·10426	1·45851	0·07501	84·627	62. 5. 43·86	1856·2	3
569	6*	Piazzi VII. 267	7. 16. 16·63	1859·2	1	6·321	−0·0817	− 0·010	0·05687	0·13794	1·49583	0·05844	80·970	21. 15. 17·26	1858·5	3
570	4*	60 Geminorum .... ι	7. 17. 1·67	1857·3	16	3·745	−0·0100	− 0·008	0·07006	0·10425	1·45857	0·07492	84·639	61. 55. 39·38	1857·3	16
571	6·7	Lacaille 2771	7. 18. 13·12	1860·1	2	+ 2·339	+0·0012	− 0·006	0·06974	0·10472	1·43679	0·08385	85·697	120. 10. 51·76	1860·1	2
572	6·5*	63 Geminorum	7. 19. 25·55	1860·1	5	3·573	−0·0078	− 0·004	0·07026	0·10295	1·45596	0·07591	84·859	68. 16. 20·52	1860·1	5
573	3*	3 Canis Minoris ..... β	7. 19. 33·41	1856·9	36	3·261	−0·0041	− 0·004	0·07080	0·10155	1·45119	0·07796	85·158	81. 25. 55·20	1856·3	28
574	5*	64 Geminorum ...... b¹	7. 20. 36·96	1855·8	6	3·751	−0·0106	+ 0·002	0·06963	0·10420	1·45865	0·07467	84·683	61. 35. 49·69	1856·0	5
575	5*	65 Geminorum ...... b²	7. 21. 6·12	1856·2	6	3·745	−0·0106	+ 0·003	0·06959	0·10413	1·45855	0·07468	84·697	61. 47. 56·24	1856·2	6
576	..	......	7. 24. 45·29	1859·2	1	+ 3·260	−0·0044	..	0·07026	0·10136	1·45116	0·07787	85·217	81. 26. 46·83	1859·2	1
577	..	......	7. 25. 7·29	1857·6	19	3·261	−0·0044	..	0·07023	0·10135	1·45118	0·07786	85·219	81. 23. 11·78	1857·6	19
578	6·5*	68 Geminorum	7. 25. 36·94	1860·1	2	3·432	−0·0066	− 0·004	0·06992	0·10196	1·45381	0·07663	85·075	73. 52. 32·83	1860·1	2
579	2·1* {	Geminorum ...... α¹	7. 25. 39·31	1856·1	21	3·856	−0·0132	− 0·013	0·06864	0·10494	1·46023	0·07360	84·642	57. 48. 33·16	1856·0	15
580		66 Geminorum ...... α²	7. 25. 39·73	1856·4	61	3·856	−0·0132	− 0·013	0·06865	0·10494	1·46023	0·07360	84·642	57. 48. 30·65	1856·1	62
581	4·5*	69 Geminorum .... υ	7. 27. 17·53	1858·9	10	+ 3·710	−0·0109	− 0·001	0·06898	0·10366	1·45803	0·07454	84·824	62. 47. 48·87	1859·1	12
582	4·5	Puppis .... n¹	7. 28. 23·56	1859·5	3	2·542	+0·0008	− 0·001	0·06919	0·10284	1·43999	0·08305	85·684	113. 10. 16·04	1859·5	3
583	6	Puppis .... n²	7. 28. 24·35	1859·6	2	2·542	+0·0008	− 0·007	0·06919	0·10284	1·43999	0·08305	85·684	113. 10. 18·68	1859·6	2
584	..	......	7. 31. 12·04	1859·2	2	3·535	−0·0086	..	0·06908	0·10231	1·45537	0·07565	85·051	69. 25. 26·29	1859·2	2
585	1*	10 Canis Minoris ..... α	7. 31. 58·34	1856·8	118	3·192	−0·0041	− 0·048	0·06961	0·10094	1·45013	0·07826	85·346	84. 25. 9·79	1856·7	97
586	4·5* {	Puppis .... k¹	7. 33. 5·09	1860·1	3	+ 2·460	+0·0010	+ 0·001	0·06840	0·10326	1·43870	0·08390	85·746	116. 29. 6·69	1860·1	3
587		Puppis .... k²	7. 33. 5·48	1860·2	1	2·460	+0·0010	..	0·06840	0·10326	1·43870	0·08390	85·746	116. 29. 14·33	1860·2	1
588	4·5*	26 Monocerotis ...... γ	7. 34. 33·49	1859·1	3	2·873	−0·0011	− 0·004	0·06927	0·10102	1·44518	0·08075	85·574	99. 13. 38·94	1859·1	3
589	Var.	......	7. 34. 38·26	1860·2	3	3·612	−0·0103	..	0·06847	0·10269	1·45654	0·07490	85·022	66. 13. 28·41	1860·2	3
590	4·3*	77 Geminorum .... κ	7. 35. 59·49	1858·1	3	3·635	−0·0108	− 0·005	0·06824	0·10279	1·45689	0·07463	85·022	65. 16. 12·64	1858·1	3
591	6·7	Piazzi VII. 755	7. 36. 38·14	1854·1	1	+ 10·147	−0·4035	− 0·003	0·01680	0·19257	1·54588	0·01777	76·845	9. 47. 1·68	1854·1	2
592	1·2*	78 Geminorum .... β	7. 36. 44·68	1856·7	119	3·730	−0·0127	− 0·049	0·06780	0·10350	1·45834	0·07381	84·941	61. 38. 21·25	1856·7	136
593	6·5*	81 Geminorum .... g	7. 38. 0·91	1860·1	5	3·487	−0·0086	− 0·008	0·06848	0·10179	1·45465	0·07575	85·178	71. 9. 6·86	1860·1	7
594	Var.	......	7. 40. 53·71	1860·1	2	3·613	−0·0110	..	0·06777	0·10246	1·45656	0·07456	85·109	65. 55. 14·20	1860·1	2
595	6·7	Lalande 15285	7. 43. 8·95	1857·5	3	2·522	+0·0009	..	0·06748	0·10244	1·43968	0·08395	85·791	114. 33. 52·41	1858·2	4
596	6·5*	Groombridge 1374...	7. 43. 21·54	1857·7	3	+ 7·349	−0·1801	..	0·03852	0·15275	1·50986	0·04010	80·906	15. 42. 54·95	1857·0	15
597	4·3*	7 Navis .... ξ	7. 43. 24·38	1856·4	19	2·523	+0·0009	+ 0·001	0·06746	0·10242	1·43970	0·08395	85·791	114. 30. 38·79	1855·3	13
598	7	Piazzi VII. 224	7. 43. 48·04	1854·1	2	3·502	−0·0094	− 0·011	0·06782	0·10164	1·45488	0·07540	85·240	70. 19. 13·02	1854·1	2
599	5*	83 Geminorum .... φ	7. 44. 55·50	1857·5	6	3·686	−0·0130	− 0·004	0·06703	0·10284	1·45768	0·07368	85·102	62. 52. 31·76	1857·5	6
600	6*	9 Puppis	7. 45. 17·31	1859·3	6	2·784	−0·0006	− 0·003	0·06803	0·10087	1·44379	0·08175	85·706	103. 31. 46·06	1859·3	6

561. The magnitude is taken from Fedorenko; the star is identical with Schwerd 421.
567. This star is identical with Lacaille 2720.
586. This star is identical with Lacaille 2896.
591. This star is identical with Schwerd 455.
595. This star is identical with Lacaille 2990.
† For No. 563, log. e = 8·32960, log. f = 0·69249, log. g = 2·01192, log. h = 8·33365, l = −37ˢ·561.

563. The magnitude is taken from Groombridge; the star is identical with Schwerd 584.
582. This star is identical with Lacaille 2849.
589. This star is the variable S Geminorum; the limits of magnitude are 9 and under 13·5; the period 293 days.
594. This star is the variable T Geminorum; the limits of magnitude are 9 and under 13·5; the period 289 days.
597. In the B.A.C. this star is designated Argûs ξ; it is identical with Lacaille 2994.

Annual Precession in N.P.D. for 1860, from Peters' Elements.	Secular Variation of Precession in N.P.D.	Annual Proper Motion in N.P.D. from Main or B.A.C.	Logarithms of e′	Logarithms of f′	Logarithms of g′	Logarithms of h′	Value of l′	No. in Bessel's Bradley. 1755.	No. in Lalande Fedorenko (F.) 1790, or British Association (B.A.) 1800.	Hour and No. in Piazzi. 1800.	No. in Groombridge. 1810.	Hour and No. in Weisse's Bessel. 1825.	No. in Argelander. 1830.	No. in Pond's 1112. 1830.	No. in First Cambridge Catalogue. 1830.	No. in Johnson's (St. Helena). 1830.	No. in Fallows. 1830.	No. in Struve. 1830.	No.
″	″	″					″			VII.		VII.							
+ 6·01	+ 1·018	..	0·29879	0·17238	1·49155	0·33325	32·009	..	1058 (F.)	..	..	..	..	..	..	..	..	..	561
6·04	0·478	+ 0·04	0·02526	0·10954	1·49185	0·33318	60·244	1058	14139 (B.A.)	50	..	..	..	335	185	..	144	..	562
6·05	10·814	..	0·33161	0·17655	1·49205	0·33314	27·716	..	...	..	1119	..	..	303	..	..	..	..	563
6·12	0·497	..	0·06431	0·11915	1·49300	0·33291	56·970	..	14177 (B.A.)	..	..	..	..	..	..	..	..	..	564
6·18	0·496	..	0·06382	0·11944	1·49383	0·33272	56·931	..	...	..	..	..	..	..	..	..	..	..	565
+ 6·18	+ 0·496	+ 0·02	0·06382	0·11944	1·49385	0·33272	56·929	1062	14197 (B.A.)	57	..	..	..	337	188	..	..	852	566
6·21	0·291	− 0·02	9·45117	0·00611	1·49436	0·33259	86·354	..	...	68	..	..	..	..	..	175	145	..	567
6·52	0·513	− 0·02	0·10006	0·13098	1·49853	0·33158	53·259	1071	14335 (B.A.)	83	..	..	..	..	..	..	..	..	568
6·55	0·869	+ 0·07	0·28414	0·17738	1·49902	0·33146	32·805	..	1090 (F.)	67	1308	..	..	340	..	..	..	..	569
6·62	0·513	+ 0·09	0·10082	0·13201	1·49990	0·33124	53·046	1072	14378 (B.A.)	90	..	..	..	341	..	..	..	..	570
+ 6·71	+ 0·319	− 0·39	9·54543	0·01357	1·50123	0·33089	83·815	..	...	..	..	..	..	..	..	..	..	..	571
6·81	0·487	+ 0·10	0·05888	0·12247	1·50260	0·33053	56·537	1077	...	101	..	..	..	343	196	..	..	..	572
6·82	0·444	+ 0·05	9·95952	0·09715	1·50273	0·33049	64·262	1079	14466 (B.A.)	106	..	573	..	344	..	..	..	..	573
6·91	0·511	+ 0·04	0·10202	0·13477	1·50393	0·33016	52·522	1080	14494 (B.A.)	107	..	..	..	..	..	..	..	..	574
6·95	0·509	+ 0·01	0·10068	0·13473	1·50447	0·33002	52·592	1082	14513 (B.A.)	111	..	..	..	..	..	..	..	..	575
+ 7·25	+ 0·440	..	9·95880	0·09820	1·50851	0·32887	63·911	..	...	..	..	..	..	..	..	..	..	..	576
7·28	0·440	..	9·95933	0·09843	1·50891	0·32876	63·844	..	...	..	..	..	..	..	..	..	..	..	577
7·32	0·463	0·00	0·01783	0·11442	1·50946	0·32860	59·356	1091	14691 (B.A.)	131	..	..	..	347	203	..	148	..	578
7·32	0·520	+ 0·08	0·12349	0·14444	1·50952	0·32858	49·850	..	...	127	..	..	..	..	..	..	..	..	579
7·32	0·520	+ 0·08	0·12339	0·14442	1·50952	0·32858	49·860	1087	14673 (B.A.)	128	..	..	156	346	202	..	..	890	580
+ 7·46	+ 0·499	+ 0·11	0·09283	0·13670	1·51130	0·32804	52·638	1094	14744 (B.A.)	138	..	..	..	348	205	..	..	..	581
7·55	0·340	+ 0·10	9·64008	0·02201	1·51249	0·32767	80·568	..	14823 (B.A.)	147	..	..	..	..	..	..	..	..	582
7·55	0·340	− 0·09	9·64008	0·02201	1·51249	0·32767	80·568	..	14825 (B.A.)	149	..	..	..	..	..	..	..	..	583
7·77	0·472	..	0·04840	0·12588	1·51551	0·32671	56·273	..	...	..	..	..	..	..	..	..	..	..	584
7·83	0·425	+ 1·08	9·93334	0·09272	1·51632	0·32645	65·193	1106	14914 (B.A.)	168	..	977	158	350	210	..	150	901	585
+ 7·93	+ 0·326	− 0·04	9·60423	0·01021	1·51753	0·32605	81·880	..	...	175	..	..	..	..	..	..	..	..	586
7·93	0·326	− 0·12	9·60423	0·01021	1·51753	0·32605	81·880	..	...	177	..	..	..	..	..	..	..	..	587
8·04	0·380	+ 0·02	9·79567	0·05525	1·51908	0·32553	73·436	1110	14984 (B.A.)	181	..	1057	..	351	..	179	..	..	588
8·05	0·479	..	0·06904	0·13413	1·51915	0·32551	54·089	..	...	..	..	..	..	..	..	..	..	..	589
8·16	0·481	+ 0·05	0·07485	0·13678	1·52058	0·32501	53·415	1111	15000 (B.A.)	184	..	..	..	352	213	..	..	..	590
+ 8·21	+ 1·347	+ 0·02	0·30653	0·20502	1·52124	0·32479	26·618	..	1148 (F.)	155	1355	..	..	..	..	..	..	..	591
8·22	0·493	+ 0·06	0·09747	0·14447	1·52137	0·32474	51·176	1112	15028 (B.A.)	191	..	..	160	353	215	..	..	911	592
8·32	0·459	+ 0·05	0·03475	0·12516	1·52268	0·32426	56·838	1115	15078 (B.A.)	194	..	..	..	354	216	..	..	918	593
8·55	0·473	..	0·06930	0·13796	1·52566	0·32318	53·454	..	...	..	..	..	..	..	..	..	..	..	594
8·73	0·327	− 0·18	9·63458	0·00823	1·52795	0·32231	80·763	1130	15285 (B.A.)	..	..	..	..	..	..	..	..	..	595
+ 8·74	+ 0·961	..	0·28979	0·20938	1·52816	0·32223	27·800	..	1186 (F.)	..	1374	..	..	..	..	..	..	..	596
8·75	0·328	− 0·02	9·63528	0·00821	1·52820	0·32221	80·736	1132	15300 (B.A.)	230	..	..	..	356	..	182	..	..	597
8·78	0·455	+ 0·08	0·03914	0·12949	1·52861	0·32204	55·948	..	15272 (B.A.)	224	..	..	..	..	..	..	..	..	598
8·87	0·479	+ 0·05	0·08739	0·14663	1·52977	0·32160	51·322	1128	15316 (B.A.)	233	..	..	..	358	222	..	..	..	599
8·89	0·360	+ 0·33	9·75465	0·03991	1·53011	0·32146	75·305	1134	15360 (B.A.)	240	..	1346	163	359	..	183	..	..	600

The magnitudes of Stars taken from Argelander are marked with Asterisks. Other magnitudes are taken in the order of preference from the British Association Catalogue of 8377 Stars; from the Catalogue of Lalande published by the British Association; from Weisse's *Catalogus Stellarum ex Zonis Regiomontanis*; or, for the variable stars, from Mr. Pogson's lists in the "Radcliffe Observations, 1854 and 1856." The authorities for any remaining magnitudes are given in the Notes.

No.	Magnitude.	Star's Name.	Mean Right Ascension, 1860, Jan. 1, from Observations, 1854 to 1860.	Mean Year and Fraction of Year.	Number of Observations.	Annual Precession in R.A. for 1860, from Peters' Elements.	Secular Variation of Precession in R.A.	Annual Proper Motion in R.A. from Main or B.A.C.	Logarithms of e	f	g	h	Value of l	Mean North Polar Distance, 1860, Jan. 1, from Observations, 1854 to 1860.	Mean Year and Fraction of Year.	Number of Observations.
			h m s			s	s	s					s	° ′ ″		
601	..	......	7. 46. 47·89	1856·2	1	+ 3·564	−0·0108	..	0·06730	0·10189	1·45581	0·07470	85·232	67. 38. 3·55	1856·2	2
602	..	......	7. 46. 49·37	1858·2	2	3·566	−0·0109	..	0·06729	0·10190	1·45584	0·07468	85·230	67. 32. 55·98	1858·2	2
603	..	......	7. 46. 55·14	1857·1	1	3·562	−0·0108	..	0·06729	0·10187	1·45578	0·07471	85·234	67. 42. 11·94	1857·1	1
604	6	1 Canceri	7. 49. 2·39	1860·1	5	3·416	−0·0084	− 0·001	0·06752	0·10096	1·45357	0·07596	85·374	73. 50. 19·73	1860·1	6
605	6	Lacaille 3072	7. 50. 47·88	1860·1	2	2·391	+0·0013	− 0·010	0·06605	0·10315	1·43761	0·08559	85·876	119. 54. 50·12	1860·1	2
606	6*	14 Canis Minoris.......	7. 51. 5·06	1854·1	5	+ 3·126	−0·0041	− 0·007	0·06778	0·10004	1·44910	0·07867	85·586	87. 24. 18·89	1854·1	5
607	6	Piazzi VII. 267	7. 52. 5·28	1859·7	4	2·392	+0·0013	+ 0·017	0·06590	0·10310	1·43762	0·08567	85·883	119. 57. 35·84	1859·7	4
608	6*	2 Canceri .... ω^1	7. 52. 27·37	1855·7	7	3·641	−0·0131	+ 0·004	0·06637	0·10220	1·45699	0·07366	85·249	64. 13. 38·05	1856·4	8
609	7	Piazzi VII. 272	7. 52. 38·42	1854·2	3	3·506	−0·0104	..	0·06688	0·10128	1·45493	0·07498	85·354	69. 48. 12·49	1854·2	3
610	6	3 Canceri............	7. 52. 45·74	1860·1	5	3·448	−0·0093	− 0·003	0·06705	0·10094	1·45405	0·07553	85·399	72. 18. 39·19	1860·1	5
611	6	5 Canceri	7. 53. 31·36	1860·2	4	+ 3·428	−0·0090	− 0·001	0·06703	0·10081	1·45375	0·07569	85·422	73. 9. 43·10	1860·2	4
612	6·7	B. A. C. 2666	7. 53. 35·55	1859·2	3	2·690	+0·0001	..	0·06694	0·10094	1·44232	0·08289	85·808	108. 1. 4·09	1859·2	3
613	5*	6 Canceri	7. 54. 54·86	1857·0	49	3·700	−0·0147	− 0·005	0·06582	0·10255	1·45788	0·07292	85·240	61. 48. 59·85	1856·6	52
614	5	13 Navis	7. 54. 58·86	1859·1	3	3·128	−0·0043	+ 0·002	0·06741	0·09985	1·44913	0·07863	85·625	87. 17. 2·02	1859·1	3
615	6·7	Groombridge 1400...	7. 55. (44.)	..	..	6·308	−0·1291	..	0·04343	0·13721	1·49565	0·04564	82·743	19. 52. 50·83	1857·2	2
616	5	55 Camelopardali.......	7. 58. 49·63	1860·0	1	+ 6·079	−0·1183	+ 0·007	0·04467	0·13377	1·49246	0·04707	83·118	21. 7. 9·91	1858·7	7
617	6·5*	10 Canceri .... μ^2	7. 59. 31·32	1857·1	5	3·540	−0·0118	+ 0·005	0·06603	0·10118	1·45546	0·07430	85·423	68. 0. 53·58	1857·1	5
618	6	12 Canceri............	8. 0. 52·81	1860·1	2	3·361	−0·0084	− 0·001	0·06648	0·10015	1·45272	0·07613	85·558	75. 57. 16·71	1860·1	2
619	3*	15 Navis .... ι	8. 1. 34·94	1856·5	25	2·561	+0·0009	− 0·007	0·06562	0·10137	1·44030	0·08456	85·902	113. 54. 11·50	1856·8	25
620	6*	14 Canceri .... ψ^2	8. 2. 0·96	1858·0	14	3·632	−0·0141	− 0·006	0·06534	0·10171	1·45685	0·07318	85·398	64. 4. 16·40	1858·0	14
621	5	16 Puppis	8. 2. 46·59	1859·1	3	+ 2·680	+0·0002	+ 0·003	0·06597	0·10057	1·44216	0·08337	85·879	108. 50. 16·40	1859·1	3
622	6·7	Piazzi VII. 321	8. 2. 51·56	1860·2	1	3·816	−0·0158	− 0·025	0·06425	0·10321	1·45963	0·07113	85·279	57. 6. 24·20	1860·2	1
623	5·4*	16 Canceri .... ζ^1	8. 4. 10·72	1860·2	4	3·446	−0·0103	+ 0·004	0·06589	0·10040	1·45402	0·07510	85·548	71. 55. 59·90	1860·2	4
624	7·8	Canceri........... ζ^2	8. 4. 11·03	1860·2	3	3·446	−0·0103	+ 0·005	0·06589	0·10040	1·45402	0·07510	85·548	71. 56. 4·69	1860·2	3
625	7	Lalande 16019	8. 4. 32·08	1854·2	1	3·366	−0·0087	..	0·06611	0·10000	1·45280	0·07596	85·599	75. 34. 52·88	1854·2	1
626	..	......	8. 5. 39·79	1854·2	1	+ 3·422	−0·0099	..	0·06582	0·10020	1·45366	0·07530	85·581	72. 56. 6·87	1854·2	1
627	..	......	8. 6. 8·03	1854·2	1	3·439	−0·0103	..	0·06571	0·10027	1·45392	0·07509	85·577	72. 8. 4·80	1854·2	1
628	5	20 Puppis	8. 6. 53·87	1859·4	4	2·759	−0·0003	+ 0·003	0·06582	0·09995	1·44341	0·08265	85·887	105. 22. 9·50	1859·4	4
629	Var.	......	8. 8. 50·53	1860·2	3	3·316	−0·0080	..	0·06582	0·09958	1·45203	0·07640	85·679	77. 50. 48·05	1860·2	3
630	4·3*	17 Canceri .... β	8. 8. 55·25	1857·7	29	3·264	−0·0071	− 0·004	0·06593	0·09941	1·45123	0·07699	85·707	80. 23. 9·91	1856·6	21
631	8	W. B. VIII. 262	8. 10. 47·99	1855·2	1	+ 3·262	−0·0072	..	0·06576	0·09930	1·45120	0·07697	85·729	80. 25. 1·18	1855·2	1
632	6*	18 Canceri .... χ	8. 11. 33·28	1857·7	8	3·661	−0·0161	+ 0·005	0·06413	0·10148	1·45729	0·07226	85·522	62. 19. 55·88	1857·7	8
633	6*	19 Canceri........... λ	8. 12. 12·42	1858·2	7	3·582	−0·0141	− 0·004	0·06448	0·10085	1·45609	0·07315	85·580	65. 32. 23·97	1858·1	7
634	6	Piazzi VIII. 44	8. 12. 28·14	1854·2	2	3·158	−0·0054	+ 0·009	0·06576	0·09899	1·44960	0·07818	85·793	85. 36. 52·81	1854·2	2
635	5	Piazzi VIII. 40	8. 13. 11·09	1860·2	3	4·592	−0·0491	− 0·003	0·05622	0·11195	1·47117	0·06078	84·929	36. 20. 1·18	1860·2	3
636	5	31 Lyncis............	8. 13. 14·40	1857·7	7	+ 4·137	−0·0310	− 0·002	0·06047	0·10618	1·46445	0·06636	85·249	46. 21. 59·32	1859·5	3
637	6	Groombridge 1418...	8. 14. 6·39	1860·1	1	17·348	−2·1896	..	9·86098	0·28195	1·62684	9·86183	74·992	4. 27. 46·08	1860·1	1
638	6*	20 Canceri .... d^1	8. 15. 20·61	1860·0	4	3·450	−0·0113	− 0·005	0·06475	0·09984	1·45408	0·07459	85·693	71. 13. 16·73	1860·2	3
639	5	Puppis........... w	8. 15. 52·28	1859·5	3	2·363	−0·0019	+ 0·016	0·06287	0·10231	1·43716	0·08772	86·034	122. 36. 38·03	1859·5	3
640	6	Piazzi VIII. 46	8. 16. (31.)	..	..	5·778	−0·1185	+ 0·003	0·04187	0·12897	1·48824	0·04475	84·180	22. 14. 49·77	1854·1	2

605. This star is identical with Lacaille 3072. 607. This star is identical with Lacaille 3081. 614. In the B. A. C. this star is placed in the constellation Canis Minor.
615. This star is identical with Schwerd 485. 619. In the B. A. C. this star is designated Argûs ρ : it is identical with Lacaille 3153.
629. This star is the variable R Canceri ; the limits of magnitude are 6 and under 10 ; the period 380 days.
637. The magnitude is taken from Groombridge : the star is identical with Schwerd 502. 639. This star is identical with Lacaille 3277.

Annual Precession in N.P.D. for 1860, from Peters' Elements.	Secular Variation of Precession in N.P.D.	Annual Proper Motion in N.P.D. from Main or B.A.C.	Logarithms of e′	f′	g′	h′	Value of l′	No. in Bessel's Bradley. 1755.	No. in Lalande Fedorenko (F.) 1790, or British Association (B.A.) 1800.	Hour and No. in Piazzi. 1800.	No. in Groombridge. 1810.	Hour and No. in Weisse's Bessel. 1825.	No. in Argelander. 1830.	No. in Pond's 1112. 1830.	No. in First Cambridge Catalogue. 1830.	No. in Johnson's (St. Helena). 1830.	No. in Fallows. 1830.	No. in Struve. 1830.	No.
″	″	″					″			VII.		VII.							
+ 9·01	+0·460	..	0·05641	0·13703	1·53162	0·32084	54·111	..	...	..	..	..	..	..	..	..	..	..	601
9·01	0·461	..	0·05694	0·13723	1·53164	0·32084	54·058	..	...	..	..	..	..	..	..	..	..	..	602
9·02	0·460	..	0·05591	0·13693	1·53174	0·32080	54·145	..	...	..	..	..	..	..	..	..	..	..	603
9·19	0·439	+ 0·04	0·01313	0·12304	1·53384	0·31993	57·798	1138	15468 (B.A.)	255	..	..	..	..	..	..	153	..	604
9·32	0·305	+ 0·50	9·58240	9·98595	1·53559	0·31919	82·915	..	...	..	..	..	..	..	..	..	..	..	605
+ 9·35	+0·399	− 0·01	9·90666	0·08677	1·53587	0·31907	65·971	1139	15556 (B.A.)	265	..	1503	..	..	..	..	..	..	606
9·42	0·304	+ 0·11	9·58343	9·98468	1·53685	0·31865	82·909	..	...	267	..	..	..	..	..	..	..	..	607
9·45	0·464	− 0·01	0·07649	0·14762	1·53720	0·31849	51·673	1140	15581 (B.A.)	270	..	..	..	..	..	..	..	..	608
9·47	0·447	..	0·04029	0·13448	1·53738	0·31841	55·096	..	15595 (B.A.)	272	..	..	..	..	..	..	..	..	609
9·48	0·439	+ 0·04	0·02296	0·12824	1·53751	0·31835	56·650	1143	15602 (B.A.)	275	..	..	..	360	228	..	..	..	610
+ 9·53	+0·436	0·00	0·01682	0·12635	1·53823	0·31803	57·135	1146	15631 (B.A.)	279	..	..	..	..	229	..	155	..	611
9·54	0·341	..	9·71198	0·02239	1·53830	0·31800	77·359	..	...	..	..	..	..	..	..	..	..	..	612
9·64	0·469	+ 0·07	0·09050	0·15443	1·53959	0·31742	50·040	1149	15676 (B.A.)	285	..	..	..	..	230	..	..	..	613
9·65	0·396	− 0·12	9·90752	0·08735	1·53964	0·31739	65·732	1153	15695 (B.A.)	289	..	1609	..	361	..	..	..	..	614
9·70	0·801	..	0·27309	0·21879	1·54036	0·31706	28·218	..	1235 (F.)	..	1400	..	..	..	..	..	..	..	615
+ 9·94	+0·766	..	0·26811	0·22069	1·54330	0·31568	28·453	1148	1246 (F.)	..	1404	..	..	363	..	..	..	..	616
9·99	0·443	+ 0·02	0·05007	0·14191	1·54396	0·31536	53·617	1161	15847 (B.A.)	304	..	..	..	..	..	..	..	..	617
10·10	0·419	+ 0·02	9·99511	0·12130	1·54524	0·31473	58·510	1165	15893 (B.A.)	310	..	1776	..	..	235	..	..	..	618
10·15	0·318	− 0·06	9·65686	9·99782	1·54590	0·31441	80·039	1170	15946 (B.A.)	320	..	..	..	366	..	190	..	..	619
10·18	0·452	+ 0·35	0·07430	0·15289	1·54630	0·31421	51·029	1167	15925 (B.A.)	314	..	..	166	365	..	..	..	..	620
+10·24	+0·332	− 0·03	9·70902	0·01503	1·54702	0·31385	77·543	1174	15977 (B.A.)	VIII. 1	..	..	168	..	..	..	..	..	621
10·25	0·474	+ 0·67	0·11484	0·16952	1·54710	0·31381	46·708	..	15951 (B.A.)	VII. 321	..	..	167	..	..	..	..	..	622
10·34	0·426	+ 0·11	0·02251	0·13351	1·54829	0·31319	55·842	1175	16004 (B.A.)	VIII. 5	..	..	..	..	236	..	..	965	623
10·34	0·426	+ 0·33	0·02251	0·13351	1·54831	0·31318	55·841	..	16005 (B.A.)	6	..	..	..	..	..	..	..	..	624
10·37	0·416	..	9·99686	0·12343	1·54864	0·31302	58·118	..	16019 (B.A.)	..	..	VIII. 77	..	..	..	..	..	..	625
+10·45	+0·422	..	0·01523	0·13129	1·54967	0·31247	56·403	..	...	..	..	..	..	..	..	..	..	..	626
10·49	0·423	..	0·02057	0·13369	1·55010	0·31225	55·879	..	...	..	..	..	..	..	..	..	..	..	627
10·55	0·338	+ 0·03	9·74523	0·02557	1·55079	0·31188	75·659	1179	16119 (B.A.)	18	..	..	..	367	..	193	..	..	628
10·69	0·405	..	9·97950	0·11800	1·55256	0·31092	59·366	..	...	..	..	..	..	..	..	..	..	..	629
10·70	0·398	+ 0·05	9·96071	0·11029	1·55262	0·31089	60·951	1180	16174 (B.A.)	28	..	201	..	368	239	..	..	..	630
+10·84	+0·396	..	9·96009	0·11057	1·55431	0·30995	60·906	..	16254 (B.A.)	..	..	262	..	..	..	..	..	..	631
10·89	0·444	+ 0·37	0·08120	0·16200	1·55498	0·30958	49·494	1181	16270 (B.A.)	37	..	..	171	..	..	..	..	..	632
10·94	0·433	+ 0·04	0·06153	0·15408	1·55555	0·30925	51·468	1182	16288 (B.A.)	41	..	..	..	..	..	..	..	..	633
10·96	0·381	+ 0·09	9·91976	0·09403	1·55578	0·30910	64·088	..	16312 (B.A.)	44	..	..	..	..	..	..	..	..	634
11·01	0·555	+ 0·04	0·20852	0·21544	1·55641	0·30874	34·429	..	16284 (B.A.)	40	1429	..	..	..	..	..	..	..	635
+11·01	+0·500	+ 0·12	0·16513	0·19836	1·55646	0·30872	39·853	1183	16309 (B.A.)	43	1430	..	..	369	..	..	..	..	636
11·09	2·103	..	0·30033	0·24337	1·55741	0·30817	22·158	..	1256 (F.)	..	1418	..	..	..	..	..	..	..	637
11·17	0·413	+ 0·02	0·02395	0·13966	1·55832	0·30762	54·934	1185	16406 (B.A.)	50	..	..	..	..	244	..	..	..	638
11·21	0·281	+ 0·08	9·58827	9·95367	1·55879	0·30735	83·661	..	...	56	..	..	..	..	..	..	..	..	639
11·25	0·693	− 0·04	0·25571	0·23535	1·55934	0·30702	27·776	..	1314 (F.)	46	1432	..	..	..	..	..	..	..	640

The magnitudes of Stars taken from Argelander are marked with Asterisks. Other magnitudes are taken in the order of preference from the British Association Catalogue of 8377 Stars ; from the Catalogue of Lalande published by the British Association ; from Weisse's *Catalogus Stellarum ex Zonis Regiomontanis* ; or, for the variable stars, from Mr. Pogson's lists in the "Radcliffe Observations, 1854 and 1856." The authorities for any remaining magnitudes are given in the Notes.

No.	Magnitude.	Star's Name.	Mean Right Ascension, 1860, Jan. 1, from Observations, 1854 to 1860.	Mean Year and Fraction of Year.	Number of Observations.	Annual Precession in R.A. for 1860, from Peters' Elements.	Secular Variation of Precession in R.A.	Annual Proper Motion in R.A. from Main or B.A.C.	Logarithms of e	f	g	h	Value of l	Mean North Polar Distance, 1860, Jan. 1, from Observations, 1854 to 1860.	Mean Year and Fraction of Year.	Number of Observations.
			h m s			s	s	s					s	° ′ ″		
641	4·3*	Piazzi VIII. 69	8. 18. 39·83	1854·2	3	+ 3·006	−0·0032	+ 0·001	0·06521	0·09862	1·44725	0·08001	85·913	93. 27. 6·21	1854·2	3
642	6*	29 Cancri	8. 20. 48·36	1858·1	6	3·358	−0·0097	− 0·002	0·06456	0·09910	1·45268	0·07552	85·807	75. 19. 42·68	1858·1	6
643	5*	2 Ursæ Majoris .... A	8. 22. 1·36	1859·8	3	5·474	−0·1034	− 0·006	0·04384	0·12433	1·48392	0·04711	84·626	24. 22. 56·52	1859·5	5
644	..	......	8. 22. 36·53	1854·1	1	3·331	−0·0092	..	0·06448	0·09889	1·45226	0·07582	85·840	76. 36. 11·82	1854·1	1
645	6*	31 Cancri .... θ	8. 23. 36·54	1856·6	4	3·436	−0·0117	− 0·006	0·06399	0·09933	1·45387	0·07440	85·811	71. 26. 7·30	1856·6	4
646	6*	33 Cancri .... η	8. 24. 36·48	1856·9	40	+ 3·485	−0·0130	− 0·005	0·06367	0·09955	1·45461	0·07371	85·807	69. 5. 10·52	1857·0	64
647	..	......	8. 26. 13·77	1854·1	1	3·317	−0·0091	..	0·06418	0·09862	1·45204	0·07589	85·892	77. 9. 52·98	1854·1	1
648	..	......	8. 26. 27·50	1854·1	1	3·316	−0·0091	..	0·06416	0·09860	1·45203	0·07591	85·894	77. 12. 45·32	1854·1	1
649	5·4*	4 Ursæ Majoris ..... π	8. 27. 55·82	1860·1	2	5·343	−0·1001	+ 0·002	0·04365	0·12227	1·48206	0·04716	84·948	25. 11. 15·57	1857·8	6
650	6*	36 Cancri........... c[1]	8. 29. 30·24	1860·2	4	3·262	−0·0081	− 0·003	0·06404	0·09823	1·45120	0·07655	85·950	79. 51. 39·03	1860·2	5
651	6	Lacaille 3406	8. 29. 32·49	1860·2	2	+ 2·546	+0·0018	+ 0·001	0·06251	0·10007	1·44005	0·08638	86·097	116. 21. 46·25	1860·2	2
652	6·7	Piazzi VIII. 110	8. 29. 33·86	1856·2	3	3·769	−0·0220	+ 0·004	0·06130	0·10153	1·45893	0·06946	85·767	56. 42. 45·79	1856·2	3
653	8	Groombridge 1452....	8. 30. (19.)	..	..	9·413	−0·5663	..	9·97920	0·18202	1·53672	9·98078	82·941	9. 29. 14·11	1855·2	2
654	5	5 Hydræ .... σ	8. 31. 26·19	1859·1	3	3·143	−0·0057	+ 0·005	0·06408	0·09786	1·44937	0·07820	86·004	86. 10. 11·02	1859·1	3
655	6	40 Cancri	8. 32. 8·09	1856·7	6	3·465	−0·0132	− 0·006	0·06301	0·09901	1·45431	0·07360	85·921	69. 32. 14·59	1856·7	6
656	..	......	8. 32. 13·05	1854·1	1	+ 3·298	−0·0090	..	0·06369	0·09819	1·45175	0·07598	85·972	77. 53. 53·91	1854·1	1
657	5	Mali............. b	8. 34. 37·44	1857·0	5	2·346	+0·0027	+ 0·018	0·06042	0·10155	1·43689	0·08954	86·143	124. 48. 47·43	1857·0	5
658	6	Groombridge 1463 ...	8. 34. 42·86	1855·2	1	9·339	−0·5770	..	9·97600	0·18097	1·53579	9·97763	83·468	9. 27. 18·45	1856·7	12
659	4·5*	43 Cancri .... γ	8. 35. 10·76	1856·7	35	3·492	−0·0142	− 0·011	0·06256	0·09900	1·45473	0·07304	85·955	68. 1. 51·43	1856·4	30
660	6*	45 Cancri.......... A[1]	8. 35. 29·22	1860·2	5	3·316	−0·0097	+ 0·001	0·06334	0·09805	1·45203	0·07562	86·009	76. 49. 11·14	1860·2	6
661	5·4*	7 Hydræ .... η	8. 35. 54·26	1859·5	3	+ 3·143	−0·0058	+ 0·001	0·06369	0·09759	1·44937	0·07815	86·052	86. 6. 5·27	1859·5	3
662	..	Lalande 17161 1st star	8. 35. 55·31	1856·9	6	4·014	−0·0324	..	0·05821	0·10379	1·46262	0·06520	85·797	47. 47. 59·33	1856·9	6
663	Var.	......	8. 35. 55·94	1860·1	1	3·441	−0·0129	..	0·06278	0·09864	1·45394	0·07376	85·980	70. 27. 54·12	1860·1	1
664	9·10	Lalande 17161 2d star	8. 35. 56·00	1856·9	6	4·015	−0·0324	..	0·05820	0·10379	1·46261	0·06519	85·800	47. 47. 35·74	1856·9	6
665	..	......	8. 36. 27·11	1854·1	1	3·283	−0·0089	..	0·06336	0·09788	1·45153	0·07608	86·026	78. 29. 59·71	1854·1	1
666	4*	47 Cancri .... δ	8. 36. 43·48	1859·0	7	+ 3·422	−0·0124	− 0·002	0·06279	0·09849	1·45366	0·07400	85·996	71. 20. 2·48	1859·8	6
667	8	Lalande 17237	8. 37. 46·84	1860·2	5	3·439	−0·0130	..	0·06259	0·09852	1·45391	0·07371	86·008	70. 26. 39·41	1860·2	5
668	4*	{ Piazzi VIII. 162 .. / Mali........... a }	8. 37. 58·06	1858·5	3	2·410	+0·0027	+ 0·001	0·06055	0·10076	1·43791	0·08892	86·160	122. 41. 2·47	1858·5	3
669	4*	48 Cancri .... ι	8. 38. 13·15	1859·2	3	3·650	−0·0194	+ 0·003	0·06120	0·09999	1·45712	0·07048	85·960	60. 43. 51·76	1859·2	3
670	6*	50 Cancri.......... A[2]	8. 39. 15·42	1860·1	2	3·302	−0·0095	− 0·007	0·06305	0·09777	1·45182	0·07571	86·058	77. 22. 44·36	1860·1	2
671	3·4*	11 Hydræ .... ε	8. 39. 21·57	1856·4	57	+ 3·197	−0·0071	− 0·013	0·06332	0·09745	1·45020	0·07730	86·081	83. 4. 12·86	1856·1	44
672	5*	13 Hydræ........... ρ	8. 41. 0·89	1859·2	5	3·186	−0·0069	+ 0·001	0·06320	0·09733	1·45003	0·07745	86·100	83. 38. 51·49	1859·2	5
673	6*	35 Lyncis.............	8. 42. 32·31	1855·8	6	4·060	−0·0361	0·000	0·05666	0·10402	1·46330	0·06359	85·936	45. 45. 19·56	1856·2	1
674	6*	55 Cancri.......... ρ[2]	8. 44. 15·08	1860·2	5	3·628	−0·0195	− 0·036	0·06069	0·09948	1·45679	0·07036	86·066	61. 8. 14·25	1860·2	5
675	6*	6 Ursæ Majoris	8. 44. (35.)	..	..	5·245	−0·1079	− 0·003	0·03968	0·12038	1·48065	0·04350	85·695	24. 51. 52·95	1860·3	2
676	Var.	......	8. 46. 15·88	1860·2	1	+ 3·135	−0·0059	..	0·06284	0·09690	1·44924	0·07818	86·167	86. 24. 21·93	1860·2	1
677	6*	58 Cancri.......... ρ[3]	8. 47. (16.)	..	..	3·612	−0·0194	− 0·007	0·06048	0·09917	1·45655	0·07037	86·120	61. 32. 27·24	1858·2	2
678	6	60 Cancri	8. 48. 16·68	1859·7	5	3·286	−0·0096	− 0·002	0·06231	0·09713	1·45157	0·07569	86·174	77. 50. 29·79	1859·7	5
679	Var.	......	8. 48. 40·27	1860·3	1	3·440	−0·0140	..	0·06155	0·09785	1·45393	0·07312	86·164	69. 37. 3·56	1860·3	1
680	3*	9 Ursæ Majoris ..... ι	8. 49. 36·33	1857·0	56	4·192	−0·0445	− 0·047	0·05387	0·10531	1·46526	0·06033	86·082	41. 24. 41·90	1856·7	23

653. The magnitude is taken from Groombridge: the star is identical with Schwerd 526.
657. This star is identical with Lacaille 3462.
663. This star is the variable S Canceri; the limits of magnitude are 8 and 10·5; the period 9·48397 days.
676. This star is the variable S Hydræ; the limits of magnitude are 8·5 and 13·5; the period about 260 days.
679. This star is the variable T Cancri; the limits of magnitude are 9·5 and 12.

658. This star is identical with Schwerd 531.
668. This star is identical with Lacaille 3487.

Annual Precession in N.P.D. for 1860, from Peters' Elements.	Secular Variation of Precession in N.P.D.	Annual Proper Motion in N.P.D. from Main or B.A.C.	Logarithms of e′	f′	g′	h′	Value of l′	No. in Bessel's Bradley. 1755.	No. in Lalande Fedorenko (F.) 1790, or British Association (B.A.) 1800.	Hour and No. in Piazzi. 1800.	No. in Groombridge. 1810.	Hour and No. in Weisse's Bessel. 1825.	No. in Argelander. 1830.	No. in Pond's 1112. 1830.	No. in First Cambridge Catalogue. 1830.	No. in Johnson's (St. Helena). 1830.	No. in Fallows. 1830.	No. in Struve. 1830.	No.
″	″	″					″			VIII.		VIII.							
+11·41	+0·356	− 0·02	9·85576	0·06661	1·56119	0·30588	68·670	1197	16559 (B.A.)	69	..	478	..	..	..	..	..	..	641
11·56	0·395	+ 0·01	9·99436	0·12904	1·56303	0·30473	57·370	1200	16621 (B.A.)	77	..	529	..	..	..	..	161	..	642
11·65	0·645	+ 0·08	0·24610	0·23779	1·56405	0·30408	28·386	1195	1328 (F.)	75	1442	..	..	..	..	..	..	..	643
11·69	0·390	..	9·98507	0·12551	1·56456	0·30375	58·125	..	...	..	..	..	..	..	..	..	..	..	644
11·76	0·401	+ 0·06	0·01974	0·14198	1·56538	0·30320	54·808	1203	16716 (B.A.)	85	..	..	..	371	251	..	..	..	645
+11·83	+0·405	+ 0·06	0·03463	0·14941	1·56622	0·30265	53·275	1207	16760 (B.A.)	88	..	..	..	372	..	..	..	..	646
11·95	0·384	..	9·98014	0·12460	1·56758	0·30174	58·392	..	...	..	..	..	..	..	..	..	..	..	647
11·96	0·383	..	9·97973	0·12450	1·56777	0·30161	58·417	..	...	..	..	..	..	..	..	..	..	..	648
12·07	0·617	− 0·02	0·24012	0·24166	1·56898	0·30076	28·482	1206	1343 (F.)	96	1455	..	..	373	..	..	..	..	649
12·18	0·373	0·00	9·96028	0·11621	1·57025	0·29988	60·037	1213	16936 (B.A.)	111	..	751	..	..	..	..	..	..	650
+12·18	+0·290	+ 0·48	9·66115	9·96866	1·57028	0·29986	80·805	..	...	..	..	..	..	..	..	..	..	..	651
12·18	0·432	+ 0·02	0·10490	0·18561	1·57030	0·29984	45·361	1211	16923 (B.A.)	110	..	..	..	..	..	..	..	..	652
12·23	1·083	..	0·28108	0·25564	1·57090	0·29940	22·717	..	1337 (F.)	..	1452	..	..	..	..	..	..	..	653
12·31	0·357	+ 0·02	9·91371	0·09378	1·57181	0·29875	63·971	1221	17020 (B.A.)	123	..	810	..	375	..	..	..	..	654
12·36	0·393	− 0·04	0·02894	0·15089	1·57237	0·29835	53·371	1223	17040 (B.A.)	127	..	..	..	..	..	..	..	..	655
+12·36	+0·373	..	9·97350	0·12359	1·57243	0·29829	58·730	..	...	..	..	..	..	..	..	..	..	..	656
12·53	0·262	+ 0·10	9·59977	9·92602	1·57434	0·29686	84·414	..	...	145	..	..	..	377	..	201	163	..	657
12·54	1·058	..	0·27848	0·25925	1·57443	0·29681	22·558	..	1353 (F.)	..	1463	..	..	..	..	..	..	..	658
12·57	0·392	− 0·01	0·03707	0·15666	1·57480	0·29653	52·348	1230	17143 (B.A.)	142	..	..	..	376	256	..	..	..	659
12·59	0·371	− 0·01	9·98005	0·12812	1·57503	0·29636	57·976	1232	17166 (B.A.)	144	..	918	..	..	..	..	..	..	660
+12·62	+0·351	+ 0·01	9·91381	0·09440	1·57535	0·29610	63·857	1235	17180 (B.A.)	147	..	929	..	378	..	..	..	..	661
12·62	0·450	..	0·14635	0·21019	1·57537	0·29609	39·846	..	17161 (B.A.)	..	..	..	..	..	..	..	..	1032	662
12·62	0·385	..	0·02156	0·14933	1·57538	0·29608	53·895	..	...	..	..	..	..	..	..	..	..	..	663
12·62	0·450	..	0·14631	0·21020	1·57538	0·29608	39·848	..	17161 (B.A.)	..	..	..	..	..	..	..	..	1032	664
12·65	0·366	..	9·96825	0·12247	1·57578	0·29576	59·040	..	...	..	..	..	..	..	..	..	..	..	665
+12·67	+0·382	+ 0·24	0·01578	0·14681	1·57600	0·29561	54·436	1236	17199 (B.A.)	150	..	..	178	379	258	..	..	..	666
12·74	0·382	..	0·02098	0·15002	1·57684	0·29496	53·849	..	17237 (B.A.)	..	..	..	..	..	..	..	..	..	667
12·76	0·266	− 0·09	9·62128	9·93277	1·57697	0·29484	83·535	..	...	162	..	..	..	380	..	204	165	..	668
12·77	0·405	+ 0·07	0·07860	0·17935	1·57717	0·29469	47·657	1239	17246 (B.A.)	158	..	..	..	..	..	..	..	1038	669
12·84	0·364	+ 0·07	9·97511	0·12706	1·57796	0·29406	58·282	1242	17279 (B.A.)	163	..	..	..	..	260	..	166	..	670
+12·85	+0·353	+ 0·04	9·93546	0·10630	1·57806	0·29398	61·905	1243	17290 (B.A.)	164	..	1008	..	381	..	..	..	1043	671
12·96	0·349	+ 0·03	9·93100	0·10431	1·57932	0·29296	62·255	1248	17345 (B.A.)	172	..	..	..	382	..	..	..	..	672
13·06	0·444	− 0·03	0·15192	0·21865	1·58048	0·29201	38·524	1247	...	175	1474	..	..	..	..	..	..	..	673
13·17	0·393	+ 0·25	0·07335	0·18102	1·58177	0·29093	47·812	1254	...	186	..	..	182	..	..	..	..	..	674
13·20	0·570	+ 0·13	0·23063	0·25455	1·58202	0·29070	27·897	1246	1393 (F.)	178	1477	..	..	..	..	..	..	..	675
+13·31	+0·336	..	9·91057	0·09400	1·58328	0·28963	63·938	..	...	..	..	..	..	..	..	..	..	..	676
13·37	0·387	+ 0·04	0·06956	0·18121	1·58402	0·28898	48·033	1258	17563 (B.A.)	204	..	..	..	..	..	..	..	..	677
13·44	0·350	+ 0·02	9·96951	0·12750	1·58477	0·28832	58·481	1262	17609 (B.A.)	211	..	1238	..	384	266	..	..	..	678
13·46	0·366	..	0·02177	0·15649	1·58505	0·28806	53·185	..	...	..	..	..	..	..	..	..	..	..	679
13·52	0·446	+ 0·28	0·16634	0·23189	1·58573	0·28745	36·001	1260	{ 1409 (F.) / 17614 (B.A.) }	212	1492	..	183	385	..	..	..	1065	680

The magnitudes of Stars taken from Argelander are marked with Asterisks. Other magnitudes are taken in the order of preference from the British Association Catalogue of 8377 Stars; from the Catalogue of Lalande published by the British Association; from Weisse's *Catalogus Stellarum ex Zonis Regiomontanis*; or, for the variable stars, from Mr. Pogson's lists in the "Radcliffe Observations for 1854 and 1856." The authorities for any remaining magnitudes are given in the Notes.

No.	Magnitude.	Star's Name.	Mean Right Ascension, 1860, Jan. 1, from Observations, 1854 to 1860.	Mean Year and Fraction of Year.	Number of Observations.	Annual Precession in R.A. for 1860, from Peters' Elements.	Secular Variation of Precession in R.A.	Annual Proper Motion in R.A. from Main or B.A.C.	Logarithms of e	f	g	h	Value of l	Mean North Polar Distance, 1860, Jan. 1, from Observations, 1854 to 1860.	Mean Year and Fraction of Year.	Number of Observations.
			h m s			s	s	s					s	° ′ ″		
681	8·9	Groombridge 1493...	8. 49. 40·27	1860·3	1	+ 4·200	−0·0450	..	0·05374	0·10543	1·46538	0·06018	86·082	41. 11. 30·50	1860·3	1
682	6*	63 Cancri .... o^2	8. 49. 45·87	1860·3	3	3·357	−0·0116	0·000	0·06190	0·09733	1·45266	0·07445	86·187	73. 53. 1·96	1860·3	3
683	4*	65 Cancri .... α	8. 50. 49·62	1857·5	39	3·288	−0·0098	0·000	0·06210	0·09696	1·45160	0·07557	86·206	77. 36. 10·58	1856·7	26
684	4*	10 Ursæ Majoris	8. 51. 32·29	1855·9	3	3·965	−0·0343	− 0·040	0·05638	0·10247	1·46187	0·06395	86·157	47. 39. 56·90	1856·2	1
685	..	......	8. 51. 38·45	1854·2	1	3·326	−0·0108	..	0·06188	0·09706	1·45218	0·07491	86·214	75. 28. 51·64	1854·2	1
686	6·7	Piazzi VIII. 233	8. 54. 7·70	1854·1	3	+ 3·177	−0·0070	+ 0·013	0·06213	0·09643	1·44990	0·07737	86·252	83. 48. 46·79	1854·1	3
687	6*	69 Cancri .... ν	8. 54. 32·84	1855·4	4	3·523	−0·0172	− 0·003	0·06041	0·09803	1·45520	0·07134	86·247	64. 59. 57·40	1855·4	4
688	5*	11 Ursæ Majoris .... σ^1	8. 56. 2·95	1859·2	3	5·386	−0·1308	− 0·001	0·03314	0·12220	1·48267	0·03684	86·218	22. 34. 7·48	1859·2	7
689	5	Piazzi VIII. 245	8. 57. 36·78	1859·1	4	3·846	−0·0304	+ 0·007	0·05689	0·10082	1·46008	0·06529	86·297	50. 59. 27·66	1859·1	4
690	..	{Ursæ Majoris σ^2 1st Star ....}	8. 58. 0·52	1855·2	1	5·397	−0·1339	− 0·005	0·03216	0·12232	1·48283	0·03585	86·318	22. 18. 3·98	1855·2	1
691	5*	{13 Ursæ Majoris σ^2 2d Star.........}	8. 58. 1·26	1856·7	9	+ 5·397	−0·1339	− 0·005	0·03216	0·12232	1·48283	0·03585	86·318	22. 18. 4·99	1856·2	20
692	..	......	8. 58. 22·78	1854·2	1	3·312	−0·0108	..	0·06135	0·09655	1·45198	0·07489	86·303	75. 50. 2·38	1854·2	1
693	6*	18 Hydræ .... ω	8. 58. 36·06	1854·2	3	3·166	−0·0068	+ 0·003	0·06181	0·09610	1·44973	0·07750	86·301	84. 21. 2·88	1854·2	3
694	5*	15 Ursæ Majoris ..... f	8. 58. 58·41	1859·5	3	4·295	−0·0537	− 0·012	0·05057	0·10626	1·46679	0·05674	86·340	37. 49. 0·18	1859·5	3
695	5·4*	14 Ursæ Majoris ..... τ	8. 59. 20·14	1859·8	2	5·023	−0·1038	+ 0·012	0·03840	0·11666	1·47745	0·04269	86·376	25. 55. 14·67	1859·5	10
696	5*	76 Cancri .... κ	9. 0. 9·68	1856·7	36	+ 3·260	−0·0094	− 0·002	0·06142	0·09623	1·45117	0·07577	86·324	78. 46. 15·30	1855·6	23
697	6*	75 Cancri.............	9. 0. 32·76	1860·2	2	3·557	−0·0191	− 0·009	0·05951	0·09791	1·45571	0·07030	86·346	62. 47. 39·37	1860·1	4
698	5*	77 Cancri .... ξ	9. 1. 18·26	1856·8	9	3·464	−0·0159	− 0·002	0·06019	0·09719	1·45429	0·07198	86·351	67. 23. 27·11	1856·8	9
699	6	79 Cancri.............	9. 2. 18·03	1858·3	2	3·461	−0·0159	+ 0·002	0·06011	0·09709	1·45425	0·07196	86·368	67. 26. 16·34	1858·3	1
700	5*	16 Ursæ Majoris c	9. 3. 14·21	1859·2	3	4·825	−0·0916	+ 0·003	0·04068	0·11361	1·47457	0·04536	86·529	28. 0. 12·38	1859·2	3
701	5·6	{Piazzi IX. 7 ...... Mali........... e}	9. 4. 0·52	1858·0	12	+ 2·540	+0·0037	+ 0·002	0·05871	0·09807	1·43997	0·08901	86·312	119. 47. 45·55	1858·0	12
702	6·7	81 Cancri .... π^1	9. 4. 37·64	1860·2	5	3·330	−0·0117	− 0·033	0·06073	0·09620	1·45224	0·07430	86·389	74. 26. 32·87	1860·2	5
703	6	B.F. 1301	9. 4. 53·94	1854·2	5	3·144	−0·0064	..	0·06135	0·09562	1·44938	0·07783	86·371	85. 33. 41·05	1854·2	5
704	6	Bradley 1299	9. 5. 37·19	1856·3	7	3·442	−0·0155	+ 0·005	0·05993	0·09676	1·45396	0·07212	86·416	68. 8. 33·06	1856·3	7
705	5*	18 Ursæ Majoris ..... e	9. 6. 5·35	1859·5	3	4·366	−0·0613	+ 0·004	0·04786	0·10694	1·46785	0·05383	86·568	35. 24. 11·16	1859·5	3
706	6	Bradley 1300	9. 6. 38·03	1856·2	3	+ 3·720	−0·0267	− 0·015	0·05716	0·09899	1·45818	0·06662	86·474	54. 47. 29·75	1856·2	3
707	4*	22 Hydræ........... θ	9. 7. 4·72	1859·8	8	3·118	−0·0057	+ 0·013	0·06121	0·09542	1·44899	0·07829	86·393	87. 5. 50·85	1859·8	8
708	6	82 Cancri .... π^2	9. 7. 29·91	1856·2	8	3·326	−0·0118	− 0·001	0·06051	0·09597	1·45218	0·07426	86·427	74. 28. 48·66	1856·2	8
709	6*	23 Hydræ.............	9. 9. 44·51	1854·2	4	2·981	−0·0024	− 0·001	0·06094	0·09528	1·44686	0·08097	86·400	95. 46. 16·64	1854·2	4
710	..	......	9. 10. 20·66	1855·3	1	3·371	−0·0134	..	0·06000	0·09600	1·45287	0·07324	86·474	71. 41.	..	..
711	6*	83 Cancri............	9. 11. 9·77	1857·6	56	+ 3·369	−0·0134	− 0·012	0·05994	0·09593	1·45284	0·07323	86·486	71. 42. 12·44	1856·9	62
712	9	W.B. IX. 234.......	9. 12. 8·42	1854·1	1	3·284	−0·0106	..	0·06034	0·09546	1·45153	0·07492	86·481	76. 41. 11·42	1854·1	1
713	6·5*	{Piazzi IX. 63 ..... Mali........... h}	9. 15. 17·76	1859·2	3	2·655	+0·0034	+ 0·010	0·05861	0·09642	1·44177	0·08771	86·392	115. 22. 18·72	1859·2	3
714	7·8	Bradley 1318	9. 15. 25·40	1854·2	2	3·497	−0·0186	− 0·006	0·05853	0·09646	1·45480	0·07032	86·585	64. 13. 16·72	1854·2	2.
715	7	Piazzi IX. 69	9. 16. 18·49	1854·2	2	3·161	−0·0070	+ 0·015	0·06045	0·09479	1·44965	0·07732	86·503	84. 10. 58·80	1854·2	2
716	5*	1 Leonis .... κ	9. 16. 29·65	1857·5	6	+ 3·514	−0·0194	0·000	0·05826	0·09652	1·45505	0·06987	86·609	63. 13. 2·93	18[illegible]8·2	10
717	4·5*	Piazzi IX. 37	9. 16. 48·19	1860·2	2	9·241	−0·8076	− 0·063	9·92447	0·17910	1·53455	9·92615	89·050	8. 3. 37·39	186[illegible]·2	2
718	..	......	9. 17. 37·67	1854·1	1	3·269	−0·0104	..	0·05998	0·09499	1·45132	0·07501	86·549	77. 12. 52·70	1854·[illegible]	1
719	7	Piazzi IX. 74	9. 17. 47·03	1854·2	4	3·341	−0·0129	+ 0·005	0·05956	0·09530	1·45241	0·07348	86·573	72. 48. 46·79	1854·2	4
720	6·7	29 Hydræ.............	9. 20. 23·18	1854·2	2	2·942	−0·0013	+ 0·001	0·06004	0·09456	1·44626	0·08197	86·490	98. 37. 6·05	1854·2	2

681. The magnitude has been taken from Groombridge.
713. This star is identical with Lacaille 3793.

701. This star is identical with Lacaille 3702.
717. This star is identical with Schwerd 568.

No.	Annual Precession in N.P.D. for 1860, from Peters' Elements.	Secular Variation of Precession in N.P.D.	Annual Proper Motion in N.P.D. from Main or B.A.C.	Logarithms of e′	f′	g′	h′	Value of l′	No. in Bessel's Bradley. 1755.	No. in Lalande Fedorenko (F.) 1790, or British Association (B.A.) 1800.	Hour and No. in Piazzi. 1800.	No. in Groombridge. 1810.	Hour and No. in Weisse's Bessel. 1825.	No. in Argelander. 1830.	No. in Pond's 1112. 1830.	No. in First Cambridge Catalogue. 1830.	No. in Johnson's (St. Helena). 1830.	No. in Fallows. 1830.	No. in Struve. 1830.
	″	″	″					″			VIII.		VIII.						
681	+13·53	+0·446	..	0·16729	0·23240	1·58577	0·28741	35·872	..	...	..	1493	..	..	..	..	..	..	..
682	13·53	0·356	− 0·04	9·99458	0·14218	1·58585	0·28735	55·936	1266	17651 (B.A.)	219	..	..	..	..	..	..	..	..
683	13·60	0·347	+ 0·04	9·97035	0·12893	1·58663	0·28664	58·315	1269	17693 (B.A.)	222	..	1300	..	386	268	..	168	..
684	13·65	0·418	+ 0·27	0·13758	0·21966	1·58713	0·28617	39·529	1268	17697 (B.A.)	223	1495	..	184	..	..	..	..	..
685	13·66	0·349	..	9·98385	0·13693	1·58720	0·28610	56·950	..	...	..	..	..	..	..	..	..	..	..
686	+13·81	+0·330	+ 0·01	9·92773	0·10523	1·58898	0·28442	62·278	..	17802 (B.A.)	233	..	..	..	..	..	..	..	..
687	13·84	0·366	+ 0·01	0·04634	0·17366	1·58928	0·28414	50·193	1275	17811 (B.A.)	234	..	..	..	..	..	..	..	..
688	13·94	0·559	+ 0·06	0·22984	0·26519	1·59034	0·28312	26·819	1271	1418 (F.)	232	1505	..	..	..	..	..	..	..
689	14·03	0·395	+ 0·06	0·11817	0·21498	1·59144	0·28204	41·468	..	17890 (B.A.)	245	1513	..	..	388	..	..	..	..
690	14·06	0·555	+ 0·11	0·22922	0·26683	1·59171	0·28176	26·707	..	...	..	..	..	..	..	..	..	..	..
691	+14·06	+0·555	+ 0·11	0·22922	0·26683	1·59171	0·28176	26·707	1276	1426 (F.)	241	1510	..	186	..	..	..	..	1075
692	14·08	0·338	..	9·97937	0·13730	1·59197	0·28150	57·165	..	...	..	..	..	..	..	..	..	..	..
693	14·10	0·322	+ 0·06	9·92335	0·10352	1·59212	0·28136	62·616	1284	17942 (B.A.)	251	..	1482	..	..	..	..	..	..
694	14·12	0·439	+ 0·05	0·17458	0·24451	1·59237	0·28110	34·033	1280	1434 (F.)	249	1516	..	..	..	..	..	..	..
695	14·14	0·513	+ 0·09	0·21698	0·26344	1·59262	0·28085	28·245	1279	1431 (F.)	247	1515	..	..	..	..	..	..	..
696	+14·19	+0·330	0·00	9·95999	0·12641	1·59320	0·28026	59·058	1287	17995 (B.A.)	255	..	1515	..	389	274	..	171	..
697	14·22	0·360	+ 0·39	0·05553	0·18299	1·59345	0·27999	48·797	1286	...	256	..	..	188	..	..	..	..	..
698	14·26	0·349	− 0·01	0·02930	0·16834	1·59397	0·27945	51·728	1289	18022 (B.A.)	259	..	..	..	390	275	..	..	..
699	14·32	0·347	+ 0·03	0·02853	0·16851	1·59465	0·27875	51·763	1291	18055 (B.A.)	262	..	..	..	..	..	..	..	..
700	14·38	0·484	+ 0·09	0·20731	0·26318	1·59528	0·27808	29·196	1288	1448 (F.)	261	1521	..	..	..	..	..	..	..
701	+14·43	+0·251	+ 0·11	9·67961	9·92558	1·59579	0·27753	82·304	..	...	IX. 7	..	..	..	..	..	..	..	..
702	14·47	0·330	− 0·28	9·98570	0·14406	1·59622	0·27708	56·300	1298	18137 (B.A.)	6	..	..	190	..	277	..	..	..
703	14·48	0·311	..	9·91429	0·09893	1·59639	0·27688	63·408	..	18150 (B.A.)	..	..	IX. 73	..	..	..	..	..	..
704	14·53	0·340	+ 0·01	0·02288	0·16724	1·59687	0·27636	52·235	1299	18163 (B.A.)	..	..	..	..	..	..	..	..	..
705	14·55	0·432	− 0·06	0·17883	0·25321	1·59718	0·27602	32·809	1297	18147 (B.A.)	8	1526	..	..	391	..	..	..	..
706	+14·59	+0·366	+ 0·03	0·09381	0·20929	1·59753	0·27563	43·831	1300	18192 (B.A.)	14	..	..	..	..	..	..	..	..
707	14·61	0·305	+ 0·32	9·90374	0·09233	1·59784	0·27529	64·389	1303	18219 (B.A.)	18	..	129	191	392	..	..	..	..
708	14·64	0·325	− 0·02	9·98444	0·14465	1·59810	0·27499	56·345	1304	18228 (B.A.)	20	..	..	..	..	279	..	..	..
709	14·77	0·288	+ 0·01	9·84528	0·05153	1·59958	0·27332	69·707	1307	18309 (B.A.)	30	..	183	..	..	..	..	..	..
710	14·81	0·325	..	0·00004	0·15594	1·59996	0·27289	54·566	..	...	..	..	..	..	..	..	..	..	..
711	+14·86	+0·324	+ 0·16	9·99957	0·15612	1·60049	0·27226	54·588	1309	18342 (B.A.)	42	..	..	..	..	282	..	..	..
712	14·91	0·314	..	9·96928	0·13712	1·60111	0·27152	57·815	..	...	..	..	234	..	..	..	..	..	..
713	15·10	0·248	− 0·11	9·72090	9·94327	1·60310	0·26913	80·339	..	...	63	..	..	..	396	..	220	176	..
714	15·10	0·329	− 0·03	0·03961	0·18400	1·60318	0·26903	49·851	1318	18455 (B.A.)	60	..	..	..	..	..	..	..	..
715	15·15	0·296	− 0·04	9·92153	0·10605	1·60372	0·26837	62·655	..	18499 (B.A.)	69	..	..	..	..	..	..	..	..
716	+15·17	+0·329	+ 0·05	0·04434	0·18773	1·60385	0·26821	49·234	1320	18491 (B.A.)	67	..	..	..	397	..	..	..	..
717	15·18	0·874	+ 0·04	0·25191	0·28992	1·60403	0·26798	22·056	..	1476 (F.)	37	1537	..	..	395	..	..	..	..
718	15·23	0·304	..	9·96417	0·13610	1·60455	0·26733	58·236	..	...	..	..	..	..	..	..	..	..	..
719	15·24	0·310	0·00	9·99012	0·15366	1·60464	0·26721	55·410	..	18548 (B.A.)	74	..	..	..	..	284	..	..	..
720	15·39	0·269	− 0·01	9·82924	0·03546	1·60622	0·26517	71·501	1327	18607 (B.A.)	87	..	..	..	..	..	..	..	..

The magnitudes of Stars taken from Argelander are marked with Asterisks. Other magnitudes are taken in the order of preference from the British Association Catalogue of 8377 Stars; from the Catalogue of Lalande published by the British Association; from Weisse's *Catalogus Stellarum ex Zonis Regiomontanis*; or, for the variable stars, from Mr. Pogson's lists in the "Radcliffe Observations, 1854 and 1856." The authorities for any remaining magnitudes are given in the Notes.

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No.	Magnitude.	Star's Name.	Mean Right Ascension, 1860, Jan. 1, from Observations, 1854 to 1860.	Mean Year and Fraction of Year.	Number of Observations.	Annual Precession in R.A. for 1860, from Peters' Elements.	Secular Variation of Precession in R.A.	Annual Proper Motion in R.A. from Main or B.A.C.	Logarithms of e	Logarithms of f	Logarithms of g	Logarithms of h	Value of l	Mean North Polar Distance, 1860, Jan. 1, from Observations, 1854 to 1860.	Mean Year and Fraction of Year.	Number of Observations.
			h m s			s	s	s					s	° ′ ″		
721	3·4*	23 Ursæ Majoris ..... h	9. 20. 26·65	1858·5	3	+ 4·805	−0·1038	+ 0·011	0·03530	0·11273	1·47428	0·04006	87·293	26. 19. 44·79	1856·1	29
722	2*	30 Hydræ .... α	9. 20. 42·44	1857·2	49	2·951	−0·0015	− 0·004	0·06005	0·09452	1·44640	0·08179	86·493	98. 3. 13·76	1857·3	33
723	5	W. B. IX. 439	9. 20. 50·66	1857·2	5	2·990	−0·0024	..	0·06015	0·09442	1·44701	0·08095	86·505	95. 27. 41·90	1857·2	5
724	6*	2 Leonis .... ω	9. 20. 57·40	1860·2	5	3·218	−0·0088	+ 0·006	0·05995	0·09456	1·45052	0·07601	86·575	80. 20. 8·55	1860·2	5
725	5	24 Ursæ Majoris ..... d	9. 22. 2·04	1859·6	3	5·465	−0·1715	− 0·009	0·01969	0·12274	1·48381	0·02332	87·737	19. 33. 27·46	1859·4	5
726	7·8	Groombridge 1552...	9. 23. 13·19	1860·3	1	+ 4·042	−0·0483	..	0·04973	0·10180	1·46303	0·05716	86·995	41. 3. 10·23	1860·3	1
727	7·8	Groombridge 1553...	9. 23. 18·41	1860·3	2	4·036	−0·0479	..	0·04983	0·10172	1·46294	0·05729	86·995	41. 13. 8·84	1860·3	2
728	3*	25 Ursæ Majoris ..... θ	9. 23. 28·33	1857·4	55	4·164	−0·0563	− 0·111	0·04743	0·10340	1·46485	0·05426	87·071	37. 41. 14·11	1857·3	53
729	5·4*	4 Leonis .... λ	9. 23. 43·64	1856·5	9	3·440	−0·0172	− 0·004	0·05826	0·09547	1·45393	0·07092	86·701	66. 25. 1·22	1856·8	8
730	6*	5 Leonis .... ξ	9. 24. 23·74	1859·8	9	3·249	−0·0100	− 0·009	0·05956	0·09440	1·45101	0·07521	86·629	78. 4. 56·57	1859·8	3
731	6*	6 Leonis .... h	9. 24. 27·09	1860·2	5	+ 3·225	−0·0092	− 0·002	0·05967	0·09431	1·45063	0·07574	86·622	79. 40. 8·60	1860·2	5
732	6	9 Leonis Minoris......	9. 24. 54·19	1857·3	1	3·705	−0·0296	+ 0·004	0·05493	0·09773	1·45796	0·06471	86·857	52. 53. 44·50	1857·3	1
733	5*	10 Leonis Minoris......	9. 25. 38·19	1858·2	7	3·701	−0·0295	+ 0·004	0·05490	0·09764	1·45790	0·06472	86·869	52. 57. 59·86	1858·2	7
734	9	W.B. IX. 563.......	9. 26. 6·16	1854·2	1	3·260	−0·0104	..	0·05938	0·09430	1·45117	0·07490	86·656	77. 17. 37·62	1854·2	1
735	7	Groombridge 1559 ..	9. 26. 31·96	1860·1	1	4·030	−0·0488	..	0·04928	0·10149	1·46285	0·05676	87·089	40. 53. 18·46	1860·1	1
736	6*	11 Leonis Minoris	9. 27. 15·04	1860·1	1	+ 3·682	−0·0289	− 0·056	0·05494	0·09734	1·45761	0·06495	86·897	53. 33. 32·69	1860·2	3
737	6*	33 Hydræ............	9. 27. 33·44	1854·2	3	2·996	−0·0023	+ 0·002	0·05968	0·09388	1·44709	0·08094	86·567	95. 17. 31·59	1854·2	3
738	6·7	7 Leonis	9. 28. 13·65	1854·2	2	3·292	−0·0117	+ 0·002	0·05903	0·09427	1·45167	0·07405	86·700	74. 59. 53·23	1854·2	2
739	..	......	9. 28. 31·52	1854·1	1	3·252	−0·0103	..	0·05923	0·09409	1·45106	0·07498	86·685	77. 36. 6·10	1854·1	1
740	6*	42 Lyncis............	9. 29. 36·70	1856·3	1	3·778	−0·0346	+ 0·003	0·05314	0·09822	1·45906	0·06231	87·012	49. 8. 1·70	1856·3	1
741	6	9 Leonis	9. 29. 48·87	1855·2	4	+ 3·457	−0·0186	− 0·008	0·05748	0·09514	1·45419	0·07004	86·816	64. 42. 10·49	1855·2	4
742	6*	10 Leonis	9. 29. 49·06	1857·1	11	3·179	−0·0078	− 0·002	0·05945	0·09377	1·44992	0·07667	86·666	82. 32. 19·15	1857·1	11
743	8·9	Lalande (F.) 1479 ...	9. 31. 31·17	1860·7	2	19·798	−5·8806	..	8·98605	0·30856	1·65126	8·99180	100·494	2. 45. 43·64	1860·8	1
744	4·5*	35 Hydræ .... ι	9. 32. 42·30	1854·2	3	3·065	−0·0041	+ 0·008	0·05943	0·09341	1·44816	0·07935	86·645	90. 30. 33·08	1854·2	3
745	7	Groombridge 1573...	9. 33. 29·55	1860·2	2	3·992	−0·0489	..	0·04857	0·10061	1·46228	0·05626	87·277	40. 56. 0·87	1860·2	2
746	5*	38 Hydræ.......... κ	9. 33. 35·76	1859·2	3	+ 2·878	+0·0009	+ 0·005	0·05878	0·09374	1·44526	0·08387	86·575	103. 41. 56·16	1859·2	3
747	4·3*	14 Leonis .... ο	9. 33. 40·54	1857·2	38	3·220	−0·0093	− 0·013	0·05902	0·09357	1·45056	0·07557	86·734	79. 28. 22·24	1856·0	24
748	..	......	9. 34. 46·41	1854·3	1	3·340	−0·0140	..	0·05817	0·09401	1·45240	0·07255	86·822	71. 18. 36·84	1854·3	1
749	5	28 Ursæ Majoris.......	9. 35. (6.)	..	..	4·713	−0·1086	− 0·006	0·03180	0·11087	1·47295	0·03674	87·967	25. 42. 19·44	1858·4	8
750	6*	16 Leonis .... ψ	9. 36. 6·26	1855·2	6	3·278	−0·0115	− 0·002	0·05852	0·09359	1·45144	0·07404	86·802	75. 20. 23·79	1855·2	6
751	3*	17 Leonis .... ε	9. 37. 53·92	1856·4	49	+ 3·425	−0·0180	− 0·004	0·05706	0·09431	1·45370	0·07017	86·933	65. 34. 59·63	1856·5	55
752	5·6	B. F. 1383..........	9. 38. 46·76	1857·1	11	3·172	−0·0076	..	0·05887	0·09302	1·44981	0·07663	86·769	82. 38. 49·82	1857·1	11
753	6*	18 Leonis	9. 38. 50·63	1860·0	7	3·243	−0·0103	− 0·003	0·05854	0·09323	1·45090	0·07481	86·815	77. 32. 49·56	1860·0	7
754	..	......	9. 39. 44·13	1856·3	2	3·236	−0·0101	..	0·05851	0·09314	1·45081	0·07494	86·822	77. 55. 32·59	1856·3	2
755	7	19 Leonis	9. 39. 54·16	1856·4	5	3·238	−0·0102	− 0·003	0·05849	0·09313	1·45084	0·07488	86·827	77. 47. 10·13	1856·4	5
756	Var.*	Bradley 1373	9. 40. 1·51	1858·6	18	+ 3·236	−0·0101	+ 0·002	0·05849	0·09311	1·45081	0·07493	86·826	77. 55. 25·69	1858·6	18
757	4·3*	29 Ursæ Majoris ..... υ	9. 41. (1.)	..	..	4·376	−0·0824	− 0·033	0·03800	0·10562	1·46799	0·04386	87·923	30. 18. 19·37	1857·2	2
758	5·4*	30 Ursæ Majoris ..... φ	9. 42. 33·40	1859·2	3	4·138	−0·0637	0·000	0·04325	0·10214	1·46447	0·05008	87·731	35. 17. 1·90	1859·2	3
759	6	4 Sextantis...........	9. 43. 12·88	1860·2	5	3·138	−0·0064	− 0·005	0·05868	0·09259	1·44929	0·07743	86·798	85. 0. 9·43	1860·2	5
760	5·4*	39 Hydræ .... υ¹	9. 44. 44·66	1859·2	4	2·884	+0·0015	+ 0·002	0·05800	0·09281	1·44535	0·08422	86·662	104. 11. 29·87	1859·2	4

No.	Annual Precession in N.P.D. for 1860, from Peters' Elements.	Secular Variation of Precession in N.P.D.	Annual Proper Motion in N.P.D. from Main or B.A.C.	Logarithms of e′	Logarithms of f′	Logarithms of g′	Logarithms of h′	Value of l′	No. in Bessel's Bradley. 1755.	No. in Lalande Fedorenko (F.) 1790, or British Association (B.A.) 1800.	Hour and No. in Piazzi. 1800.	No. in Groombridge. 1810.	Hour and No. in Weisse's Bessel. 1825.	No. in Argelander. 1830.	No. in Pond's 1112. 1830.	No. in First Cambridge Catalogue. 1830.	No. in Johnson's (St. Helena). 1830.	No. in Fallows. 1830.	No. in Struve. 1830.	No.
	″	″	″					″			IX.		IX.							
721	+15·39	+ 0·443	− 0·11	0·19926	0·27593	1·60626	0·26512	28·755	1323	1511 (F.)	82	1548	..	..	398	..	..	..	1118	721
722	15·40	0·269	− 0·03	9·83289	0·03840	1·60641	0·26492	71·180	1330	18618 (B.A.)	89	..	432	195	399	285	222	178	1122	722
723	15·41	0·272	..	9·84942	0·05185	1·60650	0·26480	69·664	..	...	..	..	439	196	..	..	..	..	..	723
724	15·42	0·294	+ 0·04	9·94429	0·12355	1·60656	0·26473	60·292	1328	18619 (B.A.)	88	..	438	..	401	..	..	..	1123	724
725	15·48	0·500	− 0·04	0·21851	0·28493	1·60722	0·26385	26·000	1324	{ 1515 (F.) / 18594 (B.A.) }	86	1550	..	..	400	..	..	..	..	725
726	+15·54	+ 0·366	..	0·14351	0·25151	1·60792	0·26292	36·147	..	...	..	1552	..	..	..	..	..	..	..	726
727	15·55	0·365	..	0·14280	0·25118	1·60797	0·26285	36·239	..	...	..	1553	..	..	..	..	..	..	..	727
728	15·56	0·377	+ 0·57	0·15658	0·25861	1·60807	0·26270	34·355	1332	1523 (F.)	98	1554	..	197	402	..	..	..	1127	728
729	15·57	0·310	+ 0·04	0·02301	0·17915	1·60822	0·26251	51·433	1335	18698 (B.A.)	100	..	..	..	403	288	..	..	..	729
730	15·61	0·291	+ 0·08	9·95670	0·13376	1·60862	0·26197	58·926	1338	...	106	..	515	..	404	289	..	..	..	730
731	+15·61	+ 0·289	+ 0·02	9·94729	0·12699	1·60864	0·26193	59·938	1339	18728 (B.A.)	108	..	517	..	..	290	..	179	1133	731
732	15·64	0·332	+ 0·04	0·09050	0·22279	1·60891	0·26157	43·030	1337	18725 (B.A.)	107	..	..	..	..	..	..	..	..	732
733	15·68	0·330	0·00	0·08955	0·22287	1·60934	0·26097	43·105	1340	18757 (B.A.)	111	..	..	..	405	..	..	..	..	733
734	15·70	0·289	..	9·96071	0·13739	1·60961	0·26059	58·463	..	18787 (B.A.)	..	..	563	..	..	..	..	..	..	734
735	15·73	0·358	..	0·14154	0·25353	1·60986	0·26024	36·159	..	1534 (F.)	..	1559	..	..	..	..	..	..	..	735
736	+15·77	+ 0·325	+ 0·26	0·08565	0·22189	1·61028	0·25963	43·508	1343	18812 (B.A.)	118	..	..	198	..	..	..	..	..	736
737	15·78	0·263	+ 0·15	9·85181	0·05205	1·61046	0·25940	69·677	1344	18836 (B.A.)	123	..	599	..	..	..	..	..	..	737
738	15·82	0·289	0·07	9·97317	0·14740	1·61083	0·25886	57·042	1345	18848 (B.A.)	125	..	616	..	..	293	..	..	1140	738
739	15·83	0·284	..	9·95809	0·13656	1·61101	0·25860	58·718	..	...	..	..	..	..	..	..	..	..	..	739
740	15·89	0·329	0·00	0·10415	0·23513	1·61162	0·25771	40·943	1346	18873 (B.A.)	126	1565	..	..	..	..	..	..	..	740
741	+15·90	+ 0·300	+ 0·03	0·02861	0·18719	1·61175	0·25754	50·507	1348	18888 (B.A.)	128	..	..	199	..	..	..	..	..	741
742	15·90	0·276	− 0·02	9·92886	0·11496	1·61175	0·25754	61·882	1349	18893 (B.A.)	130	..	649	200	406	..	..	..	..	742
743	15·99	1·736	..	0·25088	0·30026	1·61270	0·25612	21·263	..	1479 (F.)	..	..	..	..	..	..	..	..	..	743
744	16·05	0·261	+ 0·11	9·88121	0·07656	1·61336	0·25512	66·914	1356	18984 (B.A.)	144	..	..	..	407	..	227	..	..	744
745	16·10	0·341	..	0·13558	0·25679	1·61379	0·25446	36·452	..	...	..	1573	..	..	..	..	..	..	..	745
746	+16·10	+ 0·243	− 0·01	9·80428	0·00426	1·61385	0·25436	74·597	1362	19020 (B.A.)	154	..	738	..	409	..	228	..	..	746
747	16·11	0·273	+ 0·04	9·94567	0·12930	1·61389	0·25430	60·046	1360	19007 (B.A.)	151	..	732	204	408	297	..	180	..	747
748	16·16	0·281	..	9·99061	0·16380	1·61450	0·25337	54·883	..	...	..	..	..	..	..	..	..	..	..	748
749	16·18	0·399	− 0·01	0·18873	0·28486	1·61467	0·25309	29·031	1355	1550 (F.)	150	1576	..	..	..	..	..	..	..	749
750	16·23	0·274	+ 0·02	9·96797	0·14765	1·61523	0·25223	57·490	1366	19081 (B.A.)	160	..	783	..	..	298	..	..	..	750
751	+16·32	+ 0·283	+ 0·02	0·01916	0·18652	1·61620	0·25068	51·346	1368	19123 (B.A.)	164	..	..	..	410	299	..	..	..	751
752	16·37	0·260	..	9·92609	0·11541	1·61666	0·24991	62·213	..	...	..	..	..	205	..	..	..	..	..	752
753	16·37	0·266	− 0·06	9·95468	0·13861	1·61669	0·24987	58·990	1370	...	168	..	..	..	..	..	..	..	..	753
754	16·42	0·264	..	9·95221	0·13707	1·61716	0·24908	59·266	..	...	..	..	..	..	..	..	..	..	..	754
755	16·42	0·264	− 0·03	9·95294	0·13776	1·61725	0·24894	59·178	1372	19193 (B.A.)	175	..	..	..	..	..	..	..	..	755
756	+16·43	+ 0·264	+ 0·17	9·95221	0·13719	1·61731	0·24886	59·263	1373	19197 (B.A.)	176	..	..	..	..	..	..	..	..	756
757	16·48	0·357	+ 0·18	0·16826	0·28091	1·61784	0·24796	31·409	1371	1570 (F.)	174	1581	..	208	411	300	..	..	1151	757
758	16·56	0·334	+ 0·02	0·14925	0·27273	1·61863	0·24660	33·924	1375	{ 1574 (F.) / 19249 (B.A.) }	179	1583	..	..	412	..	..	..	..	758
759	16·59	0·250	+ 0·08	9·91206	0·10452	1·61897	0·24601	63·824	1380	19290 (B.A.)	186	..	930	209	..	..	..	..	..	759
760	16·66	0·227	+ 0·02	9·80821	9·99844	1·61976	0·24464	75·106	1388	19339 (B.A.)	196	..	964	..	414	..	231	..	..	760

726. The magnitude has been taken from Groombridge. 743. This star is identical with Schwerd 575. The magnitude has been taken from Fedorenko's Lalande.
756. This star is the variable R Leonis; the limits of magnitude are 5 and 10; the period 312·57 days.

The magnitudes of Stars taken from Argelander are marked with Asterisks. Other magnitudes are taken in the order of preference from the British Association Catalogue of 8377 Stars; from the Catalogue of Lalande published by the British Association; from Weisse's *Catalogus Stellarum ex Zonis Regiomontanis*; or, for the variable stars, from Mr. Pogson's lists in the "Radcliffe Observations, 1854 and 1856." The authorities for any remaining magnitudes are given in the Notes.

No.	Magnitude.	Star's Name.	Mean Right Ascension, 1860, Jan. 1, from Observations, 1854 to 1860.	Mean Year and Fraction of Year.	Number of Observations.	Annual Precession in R.A. for 1860, from Peters' Elements.	Secular Variation of Precession in R.A.	Annual Proper Motion in R.A. from Main or B.A.C.	Logarithms of e	Logarithms of f	Logarithms of g	Logarithms of h	Value of l	Mean North Polar Distance, 1860, Jan. 1, from Observations, 1854 to 1860.	Mean Year and Fraction of Year.	Number of Observations.
			h m s			s	s	s					s	° ′ ″		
761	4*	24 Leonis .... μ	9. 44. 47·71	1856·7	37	+ 3·446	−0·0198	− 0·021	0·05614	0·09394	1·45401	0·06900	87·074	63. 20. 8·41	1856·3	42
762	6*	7 Sextantis...........	9. 44. 58·74	1854·2	3	3·112	−0·0055	− 0·009	0·05862	0·09240	1·44890	0·07809	86·800	86. 53. 40·38	1854·2	3
763	5*	19 Leonis Minoris......	9. 49. 5·88	1856·2	5	3·717	−0·0361	− 0·013	0·05110	0·09632	1·45813	0·06069	87·461	48. 16. 47·28	1856·2	5
764	9	Lalande (F.) 1519 ...	9. 49. 41·28	1858·6	6	23·342	−10·0724	..	†..	..	..	..	..	2. 2. 2·46	1858·6	6
765	6	Lacaille 4072	9. 50. 3·94	1858·9	7	2·650	+0·0069	+ 0·012	0·05491	0·09395	1·44170	0·09097	86·588	120. 25. 41·99	1859·0	8
766	7	26 Leonis.............	9. 50. 34·81	1854·2	12	+ 3·276	−0·0122	− 0·002	0·05745	0·09240	1·45141	0·07334	87·008	74. 6. 46·00	1854·2	12
767	5*	27 Leonis .... ν	9. 50. 41·29	1858·6	12	3·239	−0·0106	− 0·004	0·05773	0·09224	1·45084	0·07440	86·972	76. 53. 20·97	1858·6	12
768	5*	29 Leonis........... π	9. 52. 48·75	1857·5	49	3·180	−0·0081	− 0·003	0·05792	0·09186	1·44994	0·07603	86·945	81. 17. 9·17	1857·0	35
769	5*	20 Leonis Minoris......	9. 52. 55·90	1860·3	2	3·522	−0·0251	− 0·039	0·05411	0·09400	1·45518	0·06586	87·322	57. 23. 23·32	1860·2	4
770	4·5*	21 Leonis Minoris......	9. 59. 9·71	1859·2	3	3·559	−0·0286	+ 0·006	0·05264	0·09392	1·45575	0·06380	87·516	54. 4. 28·93	1859·2	5
771	3·4*	30 Leonis .... η	9. 59. 41·74	1855·8	8	+ 3·283	−0·0131	− 0·004	0·05672	0·09168	1·45152	0·07257	87·150	72. 33. 23·05	1855·8	8
772	5*	31 Leonis .... A	10. 0. 28·29	1859·4	6	3·198	−0·0094	− 0·009	0·05735	0·09124	1·45021	0·07522	87·061	79. 19. 4·22	1859·4	6
773	9	Piazzi IX. 249......	10. 0. 45·10	1859·7	4	3·222	−0·0102	..	0·05717	0·09130	1·45058	0·07445	87·093	77. 19. 14·41	1859·7	4
774	4·5*	15 Sextantis...........	10. 0. 46·27	1859·3	3	3·076	−0·0039	+ 0·002	0·05773	0·09101	1·44833	0·07907	86·935	89. 41. 18·84	1859·3	3
775	1·2*	32 Leonis .... α	10. 0. 54·78	1857·0	118	3·221	−0·0102	− 0·019	0·05716	0·09129	1·45057	0·07445	87·095	77. 21. 0·62	1856·9	118
776	6	16 Sextantis...........	10. 1. 54·55	1860·2	5	+ 3·151	−0·0070	+ 0·002	0·05750	0·09099	1·44950	0·07665	87·026	83. 8. 40·25	1860·2	5
777	7	33 Leonis.............	10. 3. 8·36	1856·2	3	3·264	−0·0124	+ 0·005	0·05665	0·09128	1·45123	0·07294	87·181	73. 36. 25·13	1856·2	3
778	4*	41 Hydræ........... λ	10. 3. 45·83	1859·2	5	2·938	+0·0014	− 0·010	0·05709	0·09098	1·44620	0·08351	86·835	101. 39. 48·50	1859·2	5
779	6	34 Leonis.............	10. 4. 6·23	1854·4	6	3·234	−0·0109	+ 0·001	0·05686	0·09106	1·45077	0·07387	87·155	75. 57. 20·57	1854·4	6
780	..	......	10. 4. 48·98	1855·2	1	3·298	−0·0143	..	0·05617	0·09133	1·45176	0·07169	87·252	70. 38. 18·40	1855·2	1
781	8·9	Groombridge 1626...	10. 7. 44·57	1855·0	4	+ 3·669	−0·0385	..	0·04879	0·09456	1·45741	0·05850	87·939	46. 30. 23·07	1855·0	4
782	6*	32 Ursæ Majoris	10. 7. 49·31	1859·3	4	4·471	−0·1162	− 0·016	0·02385	0·10601	1·46940	0·02900	89·585	24. 11. 43·65	1859·6	6
783	6	Piazzi X. 23........	10. 8. 38·36	1855·9	5	3·280	−0·0136	+ 0·005	0·05608	0·09090	1·45148	0·07201	87·288	71. 33. 52·79	1855·9	6
784	3·4*	33 Ursæ Majoris ..... λ	10. 8. 38·50	1855·7	1	3·667	−0·0386	− 0·015	0·04866	0·09447	1·45738	0·05838	87·964	46. 23.	..	..
785	6*	Bradley 1399	10. 8. 40·20	1860·3	2	10·149	− 1·6877	− 0·079	9·72267	0·19167	1·54592	9·72563	102·459	5. 2. 26·47	1860·3	2
786	3*	36 Leonis .... ζ	10. 8. 53·88	1859·2	4	+ 3·351	−0·0176	+ 0·004	0·05514	0·09133	1·45257	0·06952	87·404	65. 53. 11·91	1859·2	8
787	6	37 Leonis.............	10. 9. 9·63	1855·9	9	3·232	−0·0110	− 0·002	0·05655	0·09062	1·45074	0·07365	87·224	75. 34. 30·83	1855·9	9
788	7	Groombridge 1635...	10. 10. 5·61	1854·3	2	3·663	−0·0388	..	0·04849	0·09433	1·45731	0·05820	88·002	46. 15. 1·34	1854·3	2
789	8·9	W. B. X. 170	10. 10. 54·87	1854·2	3	3·232	−0·0111	..	0·05643	0·09046	1·45074	0·07354	87·251	75. 22. 3·89	1854·2	3
790	..	......	10. 11. 53·79	1856·6	3	3·333	−0·0168	..	0·05515	0·09095	1·45228	0·06986	87·429	66. 47. 32·38	1856·6	3
791	2*	41 Leonis .... γ¹	10. 12. 14·95	1857·3	28	+ 3·299	−0·0149	+ 0·019	0·05558	0·09070	1·45177	0·07104	87·379	69. 27. 6·70	1856·7	26
792	..	Leonis γ (as one mass)	10. 12. 15·01	1857·0	1	3·299	−0·0149	+ 0·019	0·05558	0·09070	1·45177	0·07104	87·379	69. 27. 6·59	1857·0	2
793	..	Leonis .... γ²	10. 12. 15·18	1856·4	5	3·299	−0·0149	..	0·05558	0·09070	1·45177	0·07104	87·379	69. 27. 7·33	1856·4	5
794	6*	23 Sextantis...........	10. 13. 48·11	1860·3	5	3·103	−0·0047	+ 0·003	0·05701	0·08985	1·44876	0·07805	87·101	87. 0. 26·78	1860·3	5
795	3*	34 Ursæ Majoris ..... μ	10. 13. 58·54	1858·2	14	3·613	−0·0363	− 0·008	0·04901	0·09348	1·45656	0·05915	88·026	47. 47. 52·67	1858·2	9
796	5*	Bradley 1429	10. 13. 59·43	1855·3	1	+ 4·430	−0·1184	+ 0·005	0·02192	0·10515	1·46878	0·02705	89·935	23. 43. 39·94	1857·8	11
797	6	42 Leonis.............	10. 14. 18·39	1854·2	3	3·239	−0·0117	− 0·004	0·05613	0·09019	1·45085	0·07307	87·313	74. 19. 12·95	1854·2	3
798	6	43 Leonis.............	10. 15. 40·76	1860·3	6	3·147	−0·0069	− 0·001	0·05676	0·08975	1·44943	0·07642	87·185	82. 44. 53·15	1860·3	6
799	6	B. F. 1476..........	10. 16. 27·17	1854·2	2	3·042	−0·0019	..	0·05688	0·08961	1·44781	0·08029	87·046	92. 56. 11·83	1854·2	2
800	8·9	W. B. X. 285	10. 17. 30·84	1854·3	3	3·210	−0·0103	..	0·05621	0·08978	1·45040	0·07395	87·312	76. 33. 41·71	1854·3	3

764. This star is identical with Schwerd 586. The magnitude has been taken from Fedorenko's Lalande.
785. This star is identical with Schwerd 610.

† For No. 764, log. e = − 9·58282, log. f = 0·34465, log. g = 1·68432, log. h = − 9·58167, l = 115s·815.

Annual Precession in N.P.D. for 1860, from Peters' Elements.	Secular Variation of Precession in N.P.D.	Annual Proper Motion in N.P.D. from Main or B.A.C.	Logarithms of e′	Logarithms of f′	Logarithms of g′	Logarithms of h′	Value of l′	No. in Bessel's Bradley. 1755.	No. in Lalande Fedorenko (F.) 1790, or British Association (B.A.) 1800.	Hour and No. in Piazzi. 1800.	No. in Groombridge. 1810.	Hour and No. in Weisse's Bessel. 1825.	No. in Argelander. 1830.	No. in Pond's 1112. 1830.	No. in First Cambridge Catalogue. 1830.	No. in Johnson's (St. Helena). 1830.	No. in Fallows. 1830.	No. in Struve. 1830.	No.
″	″	″					″			IX.		IX.							
+16·67	+0·272	+ 0·06	0·02608	0·19672	1·61979	0·24460	50·220	1384	19322 (B.A.)	194	..	..	211	413	301	..	..	..	761
16·68	0·245	− 0·11	9·90129	0·09515	1·61988	0·24444	65·057	1386	19340 (B.A.)	197	..	..	212	..	..	..	..	..	762
16·87	0·286	+ 0·01	0·09198	0·24547	1·62193	0·24071	41·343	1392	19430 (B.A.)	209	1592	..	..	..	..	..	..	..	763
16·90	0·176	..	0·23621	0·31008	1·62222	0·24017	22·136	..	1519 (F.)	..	..	..	..	..	..	..	..	..	764
16·92	0·200	+ 0·14	9·74343	9·88802	1·62240	0·23982	83·106	..	...	..	..	..	..	..	..	..	..	..	765
+16·94	+0·248	+ 0·01	9·96806	0·15569	1·62265	0·23933	57·285	1394	19503 (B.A.)	215	..	..	213	..	..	..	..	..	766
16·95	0·245	+ 0·01	9·95366	0·14357	1·62270	0·23924	59·031	1395	19508 (B.A.)	216	..	1084	..	415	304	..	..	..	767
17·05	0·237	+ 0·03	9·92993	0·12346	1·62373	0·23727	61·876	1398	19549 (B.A.)	225	..	1127	..	416	..	..	182	..	768
17·05	0·263	+ 0·46	0·04856	0·21966	1·62378	0·23716	46·962	1397	19545 (B.A.)	224	..	..	214	..	..	..	..	..	769
17·33	0·254	− 0·01	0·05839	0·23227	1·62667	0·23125	45·347	1401	19714 (B.A.)	242	..	..	..	417	..	..	..	..	770
+17·36	+0·233	0·00	9·97142	0·16421	1·62692	0·23074	56·748	1403	19729 (B.A.)	245	..	..	..	418	308	..	..	..	771
17·39	0·225	+ 0·05	9·93752	0·13377	1·62725	0·23000	61·010	1405	19744 (B.A.)	248	..	1290	..	419	..	..	183	..	772
17·40	0·226	..	9·94738	0·14318	1·62739	0·22973	59·776	..	19749 (B.A.)	249	..	1296	..	..	..	..	..	..	773
17·40	0·216	+ 0·01	9·88581	0·08091	1·62739	0·22971	67·349	1407	19753 (B.A.)	250	..	1298	..	420	..	..	..	..	774
17·41	0·226	− 0·01	9·94709	0·14305	1·62746	0·22956	59·810	1406	19752 (B.A.)	251	..	1299	215	421	310	..	184	1179	775
+17·45	+0·219	− 0·01	9·91803	0·11520	1·62789	0·22860	63·446	1409	19772 (B.A.)	253	..	X. 2	..	..	..	..	185	..	776
17·51	0·225	+ 0·01	9·96450	0·16030	1·62843	0·22739	57·594	..	19804 (B.A.)	256	..	..	..	..	..	..	..	..	777
17·53	0·201	+ 0·09	9·83046	0·00998	1·62870	0·22678	74·321	1412	19822 (B.A.)	X. 2	..	39	216	422	..	233	..	..	778
17·55	0·221	+ 0·11	9·95260	0·14995	1·62885	0·22646	59·111	1411	19825 (B.A.)	3	..	46	..	..	..	..	..	..	779
17·58	0·224	..	9·99786	0·17336	1·62916	0·22574	55·845	..	...	..	..	..	..	..	..	..	..	..	780
+17·70	+0·244	..	0·08243	0·25707	1·63041	0·22283	41·589	..	...	..	1626	..	..	..	..	..	..	..	781
17·70	0·299	+ 0·04	0·16167	0·30212	1·63044	0·22276	30·604	1415	1658 (F.)	9	1625	..	..	..	..	..	..	..	782
17·73	0·216	0·00	9·97128	0·17014	1·63077	0·22195	56·654	..	19933 (B.A.)	23	..	..	..	..	..	..	..	..	783
17·74	0·242	+ 0·06	0·08203	0·25768	1·63078	0·22193	41·597	1421	19923 (B.A.)	20	1629	..	218	423	314	..	..	1187	784
17·74	0·683	+ 0·05	0·21139	0·31825	1·63079	0·22192	24·346	1399	1641 (F.)	IX. 252	1620	..	..	..	..	..	..	..	785
+17·75	+0·220	− 0·02	9·99752	0·19355	1·63088	0·22168	53·161	1425	19939 (B.A.)	X. 25	..	..	..	424	..	..	..	..	786
17·76	0·212	+ 0·02	9·95207	0·15242	1·63099	0·22143	59·168	1426	19946 (B.A.)	27	..	138	..	..	315	..	..	..	787
17·79	0·239	..	0·08117	0·25852	1·63139	0·22046	41·637	..	19957 (B.A.)	..	1635	..	..	..	..	..	..	..	788
17·83	0·208	..	9·95226	0·15368	1·63172	0·21964	59·140	..	19990 (B.A.)	..	..	170	..	..	..	..	..	..	789
17·87	0·213	..	9·99131	0·19059	1·63211	0·21864	53·923	..	...	..	..	..	..	..	..	..	..	..	790
+17·88	+0·210	+ 0·15	9·97896	0·17982	1·63225	0·21828	55·578	1432	20023 (B.A.)	38	..	..	222	425	316	..	..	..	791
17·88	0·210	+ 0·15	9·97896	0·17982	1·63225	0·21828	55·578	..	...	..	..	..	..	..	..	..	..	1195	792
17·88	0·210	..	9·97896	0·17982	1·63225	0·21828	55·578	..	...	..	..	..	..	..	..	..	..	..	793
17·94	0·195	− 0·01	9·89768	0·09581	1·63287	0·21669	66·372	1435	20077 (B.A.)	46	..	225	..	..	..	..	..	..	794
17·95	0·228	− 0·03	0·07126	0·25554	1·63293	0·21650	42·821	1434	20069 (B.A.)	45	1642	..	..	426	..	..	..	1199	795
+17·95	+0·281	+ 0·06	0·15652	0·30518	1·63293	0·21650	30·979	1429	1676 (F.)	42	1640	..	..	..	..	..	..	..	796
17·96	0·203	+ 0·02	9·95545	0·15899	1·63307	0·21617	58·707	1436	20087 (B.A.)	47	..	..	..	..	317	..	..	..	797
18·01	0·194	+ 0·09	9·91645	0·11838	1·63361	0·21476	63·932	1441	20131 (B.A.)	54	..	256	..	..	..	..	187	..	798
18·04	0·186	..	9·87175	0·06218	1·63391	0·21394	69·977	..	20156 (B.A.)	..	..	271	..	..	..	..	..	..	799
18·08	0·195	..	9·94369	0·14906	1·63432	0·21283	60·292	..	20181 (B.A.)	..	..	285	..	..	..	..	..	..	800

The magnitudes of Stars taken from Argelander are marked with Asterisks. Other magnitudes are taken in the order of preference from the British Association Catalogue of 8377 Stars; from the Catalogue of Lalande published by the British Association; from Weisse's *Catalogus Stellarum ex Zonis Regiomontanis*; or, for the variable stars, from Mr. Pogson's lists in the "Radcliffe Observations, 1854 and 1856." The authorities for any remaining magnitudes are given in the Notes.

No.	Magnitude.	Star's Name.	Mean Right Ascension, 1860, Jan. 1, from Observations, 1854 to 1860.	Mean Year and Fraction of Year.	Number of Observations.	Annual Precession in R.A. for 1860, from Peters' Elements.	Secular Variation of Precession in R.A.	Annual Proper Motion in R.A. from Main or B.A.C.	Logarithms of e	f	g	h	Value of l	Mean North Polar Distance, 1860, Jan. 1, from Observations, 1854 to 1860.	Mean Year and Fraction of Year.	Number of Observations.
			h m s			s	s	s					s	° ′ ″		
801	5·6	29 Leonis Minoris......	10. 17. 39·97	1856·3	3	+ 3·494	−0·0284	− 0·008	0·05137	0·09190	1·45475	0·06299	87·875	53. 51. 48·15	1856·3	3
802	6*	44 Leonis............	10. 17. 52·34	1860·2	6	3·168	−0·0080	− 0·007	0·05653	0·08960	1·44976	0·07552	87·247	80. 30. 17·49	1860·2	6
803	5·4*	30 Leonis Minoris......	10. 17. 52·79	1859·2	3	3·468	−0·0266	0·000	0·05192	0·09162	1·45436	0·06394	87·826	55. 29. 32·46	1859·2	5
804	4*	42 Hydræ.......... μ	10. 19. 19·28	1860·1	2	2·908	+0·0039	− 0·010	0·05583	0·08973	1·44572	0·08545	86·907	106. 7. 23·09	1860·0	1
805	6	Groombridge 1646...	10. 19. 24·32	1859·2	2	3·738	−0·0489	..	0·04414	0·09471	1·45846	0·05278	88·516	40. 28. 7·01	1859·2	2
806	4·5*	31 Leonis Minoris.... β	10. 19. 46·62	1859·3	6	+ 3·505	−0·0298	− 0·010	0·05074	0·09186	1·45493	0·06213	87·961	52. 34. 36·12	1859·3	6
807	8	W. B. X. 334.......	10. 19. 49·17	1854·2	3	3·204	−0·0100	..	0·05613	0·08955	1·45031	0·07404	87·334	76. 50. 35·59	1854·2	3
808	6*	45 Leonis............	10. 20. 15·13	1858·7	5	3·176	−0·0085	− 0·002	0·05634	0·08940	1·44988	0·07512	87·291	79. 31. 31·89	1858·7	5
809	4*	Piazzi X. 82........	10. 20. 45·02	1856·9	20	2·743	+0·0096	− 0·005	0·05303	0·09076	1·44316	0·09183	86·763	120. 21. 22·24	1856·9	20
810	..	......	10. 21. 13·65	1858·3	3	3·549	−0·0336	..	0·04936	0·09224	1·45559	0·06005	88·109	49. 31. 0·65	1858·3	3
811	6	Piazzi X. 83........	10. 21. 19·35	1854·7	10	+ 3·222	−0·0111	− 0·001	0·05586	0·08949	1·45059	0·07324	87·389	74. 56. 33·37	1854·7	10
812	6	Bradley 1439	10. 21. (22.)	..	..	6·681	−0·5930	− 0·004	9·90483	0·14056	1·50080	9·90742	97·149	8. 47. 12·08	1858·3	2
813	5*	36 Ursæ Majoris	10. 21. 38·55	1859·3	1	3·919	−0·0675	− 0·013	0·03726	0·09709	1·46118	0·04443	89·102	33. 18. 11·07	1859·3	1
814	7	W. B. X. 378.......	10. 21. 59·44	1854·2	3	3·199	−0·0098	..	0·05605	0·08932	1·45023	0·07412	87·357	77. 5. 52·00	1854·2	3
815	6	30 Sextantis..........	10. 23. 8·07	1860·1	2	3·073	−0·0030	0·000	0·05659	0·08897	1·44829	0·07915	87·151	89. 55. 14·23	1860·1	2
816	6	46 Leonis i	10. 24. 43·18	1855·4	7	+ 3·215	−0·0109	+ 0·002	0·05572	0·08915	1·45048	0·07328	87·428	75. 8. 44·34	1855·4	7
817	5	Groombridge 1658...	10. 25. 3·07	1859·2	3	3·542	−0·0343	..	0·04881	0·09190	1·45549	0·05944	88·216	48. 51. 19·13	1859·2	3
818	..	......	10. 25. 4·94	1854·1	1	3·209	−0·0106	..	0·05576	0·08909	1·45039	0·07350	87·422	75. 40. 10·27	1854·1	1
819	4*	47 Leonis.......... ρ	10. 25. 26·22	1856·6	58	3·167	−0·0081	0·000	0·05613	0·08891	1·44974	0·07525	87·341	79. 58. 28·00	1856·4	59
820	6*	34 Leonis Minoris......	10. 25. 30·00	1859·3	4	3·457	−0·0277	0·000	0·05106	0·09093	1·45419	0·06299	88·008	54. 17. 29·45	1859·2	6
821	6*	48 Leonis............	10. 27. 29·62	1860·2	1	+ 3·143	−0·0067	− 0·008	0·05619	0·08864	1·44937	0·07618	87·321	82. 19. 36·72	1860·2	1
822	7·8	W. B. X. 500.......	10. 28. 46·21	1854·2	4	3·206	−0·0106	..	0·05558	0·08874	1·45035	0·07338	87·469	75. 27. 50·47	1854·2	4
823	6	Bradley 1458	10. 29. 27·44	1854·3	3	6·379	−0·5625	+ 0·042	9·90312	0·13569	1·49663	9·90556	98·062	8. 50. 41·94	1855·9	5
824	5·4*	37 Leonis Minoris......	10. 30. 49·99	1859·2	7	3·398	−0·0243	+ 0·004	0·05181	0·08993	1·45328	0·06461	87·993	57. 17. 51·55	1859·2	7
825	6*	38 Leonis Minoris......	10. 31. 6·61	1860·3	3	3·476	−0·0308	− 0·021	0·04960	0·09071	1·45448	0·06094	88·231	51. 21. 40·67	1860·3	3
826	5*	2 Hydræ.......... φ³	10. 31. 45·75	1859·2	6	+ 2·927	+0·0047	− 0·005	0·05526	0·08851	1·44602	0·08561	86·998	106. 9. 2·75	1859·2	6
827	6*	Groombridge 1669...	10. 31. (48.)	..	..	4·392	−0·1385	..	0·01126	0·10393	1·46822	0·01601	91·375	20. 49. 37·44	1855·2	2
828	5*	38 Ursæ Majoris	10. 32. 20·94	1859·3	1	4·217	−0·1141	− 0·017	0·01920	0·10115	1·46563	0·02452	90·801	23. 33. 6·16	1859·7	5
829	..	......	10. 33. 6·84	1858·2	2	3·198	−0·0103	..	0·05541	0·08830	1·45022	0·07344	87·517	75. 42. 16·02	1858·2	3
830	6	33 Sextantis..........	10. 34. 16·76	1854·2	3	3·063	−0·0020	− 0·011	0·05611	0·08791	1·44814	0·07958	87·239	91. 0. 24·21	1854·2	3
831	7·8	W. B. X. 604.......	10. 34. 18·39	1854·2	3	+ 3·171	−0·0086	..	0·05563	0·08809	1·44980	0·07460	87·472	78. 31. 49·81	1854·2	3
832	..	......	10. 34. 37·45	1855·0	3	4·592	−0·1761	..	9·99840	0·10707	1·47117	0·00263	92·440	17. 45. 13·82	1855·0	3
833	6	34 Sextantis..........	10. 35. 23·63	1856·3	40	3·108	−0·0047	− 0·008	0·05601	0·08783	1·44884	0·07748	87·343	85. 41. 11·54	1855·6	29
834	6	36 Sextantis..........	10. 37. 56·53	1860·3	5	3·098	−0·0040	− 0·006	0·05593	0·08757	1·44868	0·07791	87·349	86. 46. 36·50	1860·3	5
835	4·5	42 Leonis Minoris......	10. 38. 4·34	1856·7	4	3·358	−0·0228	+ 0·002	0·05186	0·08896	1·45267	0·06515	88·071	58. 34. 53·44	1856·7	4
836	6	37 Sextantis..........	10. 38. 48·19	1859·6	6	+ 3·130	−0·0060	− 0·002	0·05575	0·08753	1·44917	0·07635	87·433	82. 53. 24·62	1859·6	6
837	6·7	Lalande 20748	10. 38. 54·72	1854·2	3	3·183	−0·0096	..	0·05526	0·08769	1·44999	0·07372	87·569	76. 30. 55·14	1854·2	3
838	6*	52 Leonis.......... k	10. 39. 0·15	1854·2	3	3·195	−0·0105	− 0·011	0·05510	0·08774	1·45018	0·07310	87·603	75. 4. 2·51	1854·2	3
839	..	......	10. 41. 37·79	1858·3	2	3·174	−0·0091	..	0·05523	0·08740	1·44985	0·07399	87·584	77. 12. 43·89	1858·3	2
840	5*	53 Leonis l	10. 41. 53·74	1856·9	60	3·161	−0·0082	− 0·003	0·05535	0·08733	1·44965	0·07462	87·554	78. 42. 54·37	1856·3	42

809. This star is identical with Lacaille 4298.

812. This star is identical with Schwerd 631.

823. This star is identical with Schwerd 640.

Annual Precession in N.P.D. for 1860, from Peters' Elements.	Secular Variation of Precession in N.P.D.	Annual Proper Motion in N.P.D. from Main or B.A.C.	Logarithms of e′	f′	g′	h′	Value of l′	No. in Bessel's Bradley. 1755.	No. in Lalande Fedorenko (F.) 1790, or British Association (B.A.) 1800.	Hour and No. in Piazzi. 1800.	No. in Groombridge. 1810.	Hour and No. in Weisse's Bessel. 1825.	No. in Argelander. 1830.	No. in Pond's 1112. 1830.	No. in First Cambridge Catalogue. 1830.	No. in Johnson's (St. Helena). 1830.	No. in Fallows. 1830.	No. in Struve. 1830.	No.
″	″	″					″			X.		X.							
+18·09	+0·212	+ 0·09	0·04301	0·23852	1·63437	0·21267	46·598	1444	...	62	..	..	223	..	..	..	..	..	801
18·10	0·191	+ 0·12	9·92588	0·12999	1·63444	0·21246	62·708	..	20191 (B.A.)	64	..	295	..	..	..	..	188	..	802
18·10	0·210	+ 0·10	0·03603	0·23328	1·63445	0·21244	47·568	1445	20186 (B.A.)	63	..	..	..	427	..	..	..	..	803
18·15	0·173	+ 0·11	9·82282	9·97716	1·63499	0·21093	77·243	1451	20257 (B.A.)	74	..	..	224	428	..	239	..	..	804
18·15	0·224	..	0·09409	0·27619	1·63502	0·21085	39·322	..	...	..	1646	..	..	..	..	..	..	..	805
+18·17	+0·209	+ 0·10	0·04638	0·24314	1·63517	0·21044	46·034	1448	20251 (B.A.)	72	..	..	..	429	..	..	..	..	806
18·17	0·190	..	9·94141	0·14802	1·63518	0·21041	60·614	..	20261 (B.A.)	..	..	334	..	..	..	..	..	..	807
18·19	0·188	+ 0·01	9·92937	0·13505	1·63534	0·20995	62·267	1453	20271 (B.A.)	76	..	344	..	..	..	..	..	..	808
18·21	0·160	+ 0·05	9·78781	9·87003	1·63553	0·20942	83·792	..	...	82	..	..	..	430	..	240	..	..	809
18·22	0·208	..	0·05740	0·25282	1·63571	0·20892	44·408	..	...	..	..	..	..	..	..	..	..	..	810
+18·23	+0·188	+ 0·04	9·94910	0·15715	1·63574	0·20882	59·560	..	20307 (B.A.)	83	..	..	..	..	..	..	..	..	811
18·23	0·399	0·00	0·18921	0·32183	1·63576	0·20877	26·593	1439	1683 (F.)	..	1643	..	225	..	..	..	..	..	812
18·24	0·230	− 0·01	0·11704	0·29226	1·63586	0·20847	35·979	1454	1698 (F.)	80	1649	..	..	431	..	..	..	..	813
18·25	0·186	..	9·93932	0·14710	1·63599	0·20810	60·914	..	20333 (B.A.)	..	..	378	..	..	..	..	..	..	814
18·29	0·176	+ 0·06	9·88463	0·07966	1·63640	0·20688	68·595	1459	20358 (B.A.)	87	..	405	..	..	..	..	..	..	815
+18·35	+0·182	+ 0·04	9·94650	0·15669	1·63696	0·20518	59·921	1463	20400 (B.A.)	97	..	424	..	..	..	..	..	..	816
18·36	0·200	..	0·05622	0·25584	1·63708	0·20481	44·391	..	20401 (B.A.)	..	1658	..	..	..	..	..	..	..	817
18·36	0·181	..	9·94409	0·15431	1·63709	0·20478	60·261	..	...	..	..	..	..	..	..	..	..	..	818
18·37	0·177	+ 0·03	9·92562	0·13341	1·63722	0·20440	62·871	1467	20421 (B.A.)	102	..	438	..	433	319	..	..	..	819
18·38	0·194	+ 0·02	0·03407	0·23926	1·63724	0·20432	47·521	1465	20414 (B.A.)	99	..	..	227	..	..	..	..	..	820
+18·44	+0·172	− 0·06	9·91508	0·12145	1·63793	0·20215	64·421	1468	20473 (B.A.)	110	..	476	..	435	321	..	..	..	821
18·49	0·173	..	9·94310	0·15573	1·63837	0·20076	60·410	..	20499 (B.A.)	..	..	500	..	..	..	..	..	..	822
18·51	0·350	0·00	0·17998	0·32470	1·63860	0·19998	27·527	1458	1710 (F.)	..	1662	..	228	..	..	..	..	..	823
18·56	0·180	0·00	0·01691	0·23042	1·63906	0·19847	49·759	1475	20550 (B.A.)	121	..	..	..	436	..	..	..	..	824
18·57	0·184	+ 0·03	0·04025	0·24993	1·63915	0·19816	46·388	1477	20554 (B.A.)	122	1670	..	229	..	..	..	..	..	825
+18·59	+0·152	− 0·04	9·83174	9·97415	1·63937	0·19743	77·780	1479	20585 (B.A.)	127	..	..	..	437	..	244	..	..	826
18·59	0·232	..	0·14507	0·31519	1·63938	0·19739	31·736	..	1720 (F.)	..	1669	..	..	..	..	..	..	..	827
18·61	0·222	+ 0·10	0·13631	0·31185	1·63956	0·19679	32·861	1476	1724 (F.)	124	1672	..	..	..	..	..	..	..	828
18·63	0·165	..	9·93997	0·15517	1·63981	0·19592	60·880	..	...	..	..	..	..	..	..	..	..	..	829
18·67	0·155	+ 0·14	9·88064	0·07326	1·64018	0·19461	69·876	1482	...	134	..	607	230	..	..	..	..	..	830
+18·67	+0·161	..	9·92804	0·14147	1·64018	0·19459	62·655	..	20642 (B.A.)	..	..	604	..	..	..	..	..	..	831
18·68	0·236	..	0·15057	0·31954	1·64028	0·19423	30·948	..	...	..	..	..	..	..	..	..	..	..	832
18·71	0·156	− 0·01	9·90009	0·10388	1·64053	0·19336	66·914	1484	20672 (B.A.)	138	..	626	232	..	..	..	..	..	833
18·78	0·150	+ 0·01	9·89564	0·09779	1·64131	0·19046	67·726	1491	20727 (B.A.)	147	..	..	..	..	..	..	..	..	834
18·79	0·163	+ 0·02	0·00522	0·22745	1·64136	0·19030	51·196	1490	20721 (B.A.)	145	..	..	..	439	..	..	..	..	835
+18·81	+ 0·150	+ 0·06	9·90977	0·11932	1·64157	0·18948	65·540	1493	20747 (B.A.)	150	..	677	..	440	323	..	193	..	836
18·81	0·153	..	9·93389	0·15190	1·64161	0·18934	61·824	..	20748 (B.A.)	..	..	..	..	..	..	..	..	..	837
18·82	0·153	+ 0·08	9·93947	0·15890	1·64163	0·18924	60·975	1494	20751 (B.A.)	152	..	..	..	..	..	..	..	..	838
18·90	0·147	..	9·92993	0·14874	1·64242	0·18620	62·457	..	...	..	..	..	..	..	..	..	..	..	839
18·90	0·146	+ 0·02	9·92423	0·14126	1·64249	0·18589	63·353	1500	20826 (B.A.)	162	..	743	..	..	325	..	..	..	840

The magnitudes of Stars taken from Argelander are marked with Asterisks. Other magnitudes are taken in the order of preference from the British Association Catalogue of 8377 Stars; from the Catalogue of Lalande published by the British Association; from Weisse's *Catalogus Stellarum ex Zonis Regiomontanis*; or, for the variable stars, from Mr. Pogson's lists in the "Radcliffe Observations, 1854 and 1856." The authorities for any remaining magnitudes are given in the Notes.

No.	Magnitude.	Star's Name.	Mean Right Ascension, 1860, Jan. 1, from Observations, 1854 to 1860.	Mean Year and Fraction of Year.	Number of Observations.	Annual Precession in R.A. for 1860, from Peters' Elements.	Secular Variation of Precession in R.A.	Annual Proper Motion in R.A. from Main or B.A.C.	Logarithms of e	f	g	h	Value of l	Mean North Polar Distance, 1860, Jan. 1, from Observations, 1854 to 1860.	Mean Year and Fraction of Year.	Number of Observations.
			h m s			s	s	s					s	° ′ ″		
841	7	W. B. X. 781	10. 43. 46·82	1854·3	3	+ 3·167	− 0·0087	..	0·05518	0·08717	1·44975	0·07417	87·599	77. 40. 45·19	1854·3	3
842	4*	46 Leonis Minoris	10. 45. 28·42	1859·6	8	3·371	− 0·0258	+ 0·007	0·05035	0·08849	1·45287	0·06289	88·337	55. 1. 52·84	1859·9	14
843	5*	45 Ursæ Majoris ω	10. 45. 54·42	1857·8	16	3·481	− 0·0368	+ 0·002	0·04619	0·08970	1·45456	0·05656	88·806	46. 3. 56·72	1857·9	10
844	6	Bradley 1514	10. 47. 58·68	1857·3	2	3·353	− 0·0249	− 0·007	0·05049	0·08811	1·45261	0·06327	88·350	55. 44. 47·95	1857·3	4
845	4·5*	54 Leonis (1st Star)	10. 48. 1·64	1859·3	6	3·269	− 0·0173	+ 0·005	0·05298	0·08736	1·45131	0·06809	88·019	64. 30. 15·62	1859·3	6
846	8	54 Leonis (2d Star)	10. 48. 2·13	1859·2	1	+ 3·269	− 0·0173	..	0·05298	0·08735	1·45131	0·06809	88·019	64. 30. 16·96	1859·2	1
847	6*	55 Leonis	10. 48. 30·22	1856·7	5	3·083	− 0·0027	+ 0·011	0·05558	0·08653	1·44844	0·07859	87·417	88. 31. 2·76	1856·7	5
848	5·6	Piazzi X. 199	10. 50. 12·03	1858·8	2	2·777	+ 0·0153	− 0·005	0·04961	0·08808	1·44368	0·09582	86·850	126. 23. 16·52	1858·8	2
849	5*	47 Ursæ Majoris	10. 51. 37·03	1860·2	1	3·416	− 0·0325	− 0·028	0·04740	0·08850	1·45356	0·05853	88·760	48. 49.	..	..
850	7	Piazzi X. 205	10. 52. 22·11	1854·2	5	3·158	− 0·0084	− 0·006	0·05487	0·08631	1·44960	0·07405	87·699	77. 32. 46·86	1854·2	5
851	5*	58 Leonis d	10. 53. 19·75	1856·7	42	+ 3·101	− 0·0039	− 0·002	0·05536	0·08607	1·44873	0·07741	87·521	85. 37. 54·29	1856·1	33
852	5*	59 Leonis c	10. 53. 29·27	1858·4	12	3·118	− 0·0052	− 0·005	0·05525	0·08608	1·44898	0·07640	87·579	83. 8. 49·91	1858·4	12
853	7	Piazzi X. 212	10. 53. 53·52	1860·2	2	3·077	− 0·0020	+ 0·023	0·05541	0·08599	1·44836	0·07886	87·453	89. 12. 7·93	1860·2	2
854	8	Lalande (F.) 1729	10. 54. 20·11	1858·0	3	16·593	− 10·0567	..	† ..	..	..	..	..	1. 36. 4·77	1858·0	3
855	5*	61 Leonis p¹	10. 54. 41·16	1860·3	4	3·061	− 0·0008	+ 0·007	0·05538	0·08592	1·44810	0·07988	87·410	91. 43. 53·96	1860·3	4
856	4·5*	60 Leonis b	10. 54. 51·08	1859·6	3	+ 3·215	− 0·0137	+ 0·003	0·05365	0·08636	1·45049	0·07023	87·966	69. 4. 12·10	1859·6	3
857	2*	50 Ursæ Majoris α	10. 55. 3·40	1857·2	61	3·790	− 0·0828	− 0·017	0·02587	0·09355	1·45924	0·03221	90·984	27. 29. 39·12	1856·3	100
858	7·8	Lalande 21185	10. 55. 40·58	1859·3	2	3·350	− 0·0271	..	0·04917	0·08746	1·45256	0·06141	88·609	53. 5. 31·44	1859·3	2
859	6*	62 Leonis p²	10. 56. 26·65	1860·2	2	3·077	− 0·0019	− 0·001	0·05533	0·08574	1·44835	0·07888	87·475	89. 14. 52·61	1860·2	2
860	5*	63 Leonis χ	10. 57. 47·60	1856·7	44	3·123	− 0·0057	− 0·024	0·05504	0·08567	1·44906	0·07586	87·652	81. 54. 29·08	1856·7	42
861	4·5*	9 Crateris	10. 58. 35·49	1859·3	3	+ 2·895	+ 0·0114	− 0·009	0·05236	0·08626	1·44553	0·09065	87·027	116. 32. 20·34	1859·3	3
862	7·8	Lalande 21264	10. 58. 53·58	1859·2	6	3·121	− 0·0056	..	0·05503	0·08556	1·44903	0·07594	87·657	82. 6. 25·51	1859·2	6
863	5	Bradley 1538	10. 59. 10·57	1859·3	3	2·897	+ 0·0114	+ 0·005	0·05234	0·08620	1·44556	0·09066	87·030	116. 31. 55·57	1859·3	3
864	6*	65 Leonis p³	10. 59. 45·63	1860·3	6	3·089	− 0·0028	− 0·028	0·05521	0·08542	1·44853	0·07808	87·547	87. 17. 6·93	1860·3	5
865	7	W. B. X. 1075	10. 59. 54·43	1854·2	3	3·139	− 0·0072	..	0·05477	0·08550	1·44931	0·07464	87·745	79. 1. 52·36	1854·2	3
866	7·8	Lalande 21322	11. 1. 0·54	1858·2	1	+ 3·098	− 0·0035	..	0·05513	0·08530	1·44867	0·07743	87·594	85. 42. 33·73	1858·2	1
867	5*	10 Crateris	11. 1. 57·83	1859·6	3	2·899	+ 0·0121	0·000	0·05206	0·08594	1·44559	0·09108	87·033	117. 19. 16·58	1859·6	3
868	7·8	Lalande 21367	11. 3. 6·35	1854·2	3	3·141	− 0·0076	..	0·05460	0·08520	1·44935	0·07422	87·803	78. 4. 29·24	1854·2	3
869	5*	Piazzi XI. 2	11. 3. 9·95	1860·0	3	2·870	+ 0·0144	− 0·011	0·05081	0·08608	1·44514	0·09335	86·978	121. 36. 28·51	1860·0	3
870	7	W. B. XI. 25	11. 3. 17·94	1854·2	3	3·142	− 0·0077	..	0·05458	0·08519	1·44936	0·07416	87·808	77. 56. 21·55	1854·2	3
871	6	Groombridge 1746	11. 4. (34.)	..	..	+ 3·541	− 0·0567	..	0·03554	0·08930	1·45546	0·04347	90·281	34. 20. 44·68	1860·2	2
872	5*	69 Leonis p⁵	11. 6. 35·54	1860·3	5	3·076	− 0·0014	0·000	0·05505	0·08472	1·44833	0·07891	87·564	89. 18. 30·31	1860·3	5
873	2·3*	68 Leonis δ	11. 6. 39·50	1856·4	54	3·192	− 0·0133	+ 0·011	0·05323	0·08511	1·45013	0·06994	88·129	68. 42. 35·83	1856·9	60
874	6	B. F. 1589	11. 6. 41·86	1855·3	4	3·088	− 0·0026	..	0·05501	0·08471	1·44852	0·07795	87·620	86. 58. 7·59	1855·3	4
875	6*	Piazzi XI. 12	11. 6. 45·37	1854·2	3	3·120	− 0·0057	+ 0·008	0·05474	0·08477	1·44901	0·07552	87·762	81. 10. 26·27	1854·2	3
876	3·4*	70 Leonis θ	11. 6. 53·40	1854·5	7	+ 3·161	− 0·0100	− 0·005	0·05402	0·08492	1·44965	0·07231	87·968	73. 48. 21·58	1854·5	7
877	5*	72 Leonis	11. 7. 45·19	1859·3	7	3·206	− 0·0150	+ 0·001	0·05269	0·08511	1·45034	0·06866	88·234	66. 8. 31·64	1859·3	7
878	6*	73 Leonis n	11. 8. 32·34	1854·2	3	3·147	− 0·0086	− 0·001	0·05423	0·08469	1·44943	0·07324	87·924	75. 55. 46·88	1854·2	3
879	5·4*	74 Leonis φ	11. 9. 32·68	1859·5	5	3·057	+ 0·0006	− 0·009	0·05494	0·08443	1·44805	0·08037	87·513	92. 53. 12·57	1859·5	5
880	4·3*	Ursæ Majoris ξ¹	11. 10. 42·25	1855·1	6	3·253	− 0·0215	− 0·037	0·05036	0·08523	1·45106	0·06400	88·633	57. 41. 0·43	1855·1	5

854. This star is identical with Schwerd 657. The magnitude has been taken from Fedorenko's Lalande. 861. This star is denominated χ¹ Hydræ in the B. A. C.
861, 863, 867, and 869. These stars are identical respectively with Lacaille 4583, 4587, 4615, and 4623.
† For No. 854, log. e = −0·03706, log. f = 0·27287, log. g = 1·61902, log. h = − 0·03670, l = 167s·659.

Annual Precession in N.P.D. for 1860, from Peters' Elements.	Secular Variation of Precession in N.P.D.	Annual Proper Motion in N.P.D. from Main or B.A.C.	Logarithms of e′	f′	g′	h′	Value of l′	No. in Bessel's Bradley. 1755.	No. in Lalande Fedorenko (F.) 1790, or British Association (B.A.) 1800.	Hour and No. in Piazzi. 1800.	No. in Groombridge. 1810.	Hour and No. in Weisse's Bessel. 1825.	No. in Argelander. 1830.	No. in Pond's 1112. 1830.	First Cambridge Catalogue. 1830.	No. in Johnson's (St. Helena). 1830.	No. in Fallows. 1830.	No. in Struve. 1830.	No.
″	″	″					″			X.		X.							
+18·96	+0·143	..	9·92722	0·14664	1·64303	0·18369	62·906	..	20876 (B.A.)	..	..	781	..	..	..	..	..	..	841
19·01	0·149	+ 0·24	0·01178	0·24132	1·64350	0·18171	49·941	1509	20921 (B.A.)	181	..	..	237	443	..	..	..	..	842
19·02	0·153	+ 0·06	0·04450	0·26902	1·64362	0·18119	45·092	1510	20931 (B.A.)	182	1703	..	..	444	..	..	..	..	843
19·07	0·143	+ 0·10	0·00659	0·23936	1·64419	0·17872	50·618	1514	20983 (B.A.)	187	..	..	..	..	..	..	..	..	844
19·08	0·139	+ 0·01	9·97373	0·20668	1·64419	0·17868	55·617	1515	20990 (B.A.)	190	..	..	..	445	..	..	..	1256	845
+19·08	+0·139	..	9·97373	0·20668	1·64420	0·17866	55·618	..	20991 (B.A.)	..	..	..	..	..	..	..	..	..	846
19·09	0·130	0·00	9·88880	0·08801	1·64432	0·17809	69·453	1517	21006 (B.A.)	193	..	876	..	446	..	..	..	..	847
19·13	0·113	+ 0·20	9·82789	9·80394	1·64476	0·17606	86·806	..	...	199	..	..	..	..	..	..	..	..	848
19·17	0·138	− 0·06	0·02816	0·26230	1·64512	0·17434	47·239	1522	...	202	1718	..	238	..	..	..	..	..	849
19·19	0·126	+ 0·01	9·92376	0·14807	1·64531	0·17341	63·573	..	...	205	..	937	..	..	..	..	..	..	850
+19·21	+0·122	+ 0·03	9·89713	0·10481	1·64555	0·17225	68·223	1526	21125 (B.A.)	210	..	952	..	450	329	..	..	..	851
19·22	0·122	+ 0·06	9·90488	0·11869	1·64560	0·17207	66·844	1527	21131 (B.A.)	211	..	960	..	451	330	..	197	..	852
19·23	0·119	+ 0·05	9·88655	0·08400	1·64570	0·17157	70·226	..	21141 (B.A.)	212	..	965	..	..	..	..	..	..	853
19·24	0·676	..	0·16744	0·33422	1·64580	0·17103	29·117	..	1729 (F.)	..	..	..	..	..	..	..	..	..	854
19·25	0·117	+ 0·03	9·87955	0·06855	1·64589	0·17058	71·656	1530	21164 (B.A.)	218	..	979	..	..	..	..	..	..	855
+19·25	+0·123	− 0·04	9·95177	0·18835	1·64593	0·17039	58·940	1529	21166 (B.A.)	219	..	..	..	453	..	..	..	..	856
19·26	0·146	+ 0·09	0·09608	0·31210	1·64598	0·17013	37·422	1528	{ 1795 (F.) / 21156 (B.A.) }	217	1729	..	240	452	331	..	..	1272	857
19·27	0·127	..	0·00830	0·24967	1·64612	0·16939	50·043	..	21185 (B.A.)	..	..	..	..	..	..	..	..	..	858
19·29	0·115	+ 0·03	9·88632	0·08371	1·64630	0·16842	70·453	1533	21208 (B.A.)	227	..	1007	..	..	..	..	..	..	859
19·32	0·114	+ 0·08	9·90752	0·12572	1·64662	0·16675	66·514	1535	21242 (B.A.)	236	..	1036	242	454	333	..	199	..	860
+19·34	+0·104	+ 0·03	9·84105	9·88605	1·64680	0·16575	83·606	1536	21260 (B.A.)	237	..	..	..	455	..	254	..	..	861
19·35	0·112	..	9·90655	0·12470	1·64686	0·16539	66·722	..	21264 (B.A.)	..	..	1053	..	..	..	..	..	..	862
19·35	0·103	+ 0·03	9·84173	9·88588	1·64693	0·16502	83·632	1538	21278 (B.A.)	240	..	..	..	..	..	..	..	..	863
19·37	0·109	+ 0·08	9·89148	0·09544	1·64705	0·16430	69·648	1539	21295 (B.A.)	243	..	1073	243	..	..	..	200	..	864
19·37	0·110	..	9·91556	0·14106	1·64709	0·16411	65·099	..	21299 (B.A.)	..	..	1075	..	..	..	..	..	..	865
+19·40	+0·107	..	9·89559	0·10456	1·64734	0·16274	68·897	..	21322 (B.A.)	..	..	..	..	..	..	..	..	..	866
19·42	0·098	+ 0·02	9·84448	9·87837	1·64754	0·16152	84·070	1544	...	256	..	..	..	457	..	255	..	..	867
19·44	0·104	..	9·91709	0·14627	1·64779	0·16009	64·861	..	21367 (B.A.)	..	..	XI. 19	..	..	..	..	..	..	868
19·44	0·094	+ 0·12	9·84621	9·84014	1·64780	0·16000	85·687	..	...	XI. 2	..	..	..	..	..	..	..	..	869
19·45	0·104	..	9·91745	0·14695	1·64783	0·15983	64·804	..	21371 (B.A.)	..	..	25	..	..	..	..	..	..	870
+19·47	+0·115	..	0·06183	0·30137	1·64809	0·15822	41·781	..	1829 (F.)	..	1746	..	..	..	..	..	..	..	871
19·51	0·095	0·00	9·88587	0·08337	1·64849	0·15560	71·298	1547	21464 (B.A.)	11	..	81	..	..	..	..	..	..	872
19·52	0·099	+ 0·14	9·94419	0·19122	1·64851	0·15552	60·003	1546	21461 (B.A.)	10	..	..	246	459	336	..	..	..	873
19·52	0·095	..	9·89143	0·09733	1·64852	0·15548	70·068	..	21467 (B.A.)	..	..	83	..	..	..	..	..	..	874
19·52	0·096	+ 0·12	9·90666	0·13016	1·64852	0·15541	66·923	..	21468 (B.A.)	12	..	85	..	..	..	..	..	..	875
+19·52	+0·098	+ 0·06	9·92809	0·16776	1·64855	0·15525	62·862	1548	21470 (B.A.)	13	..	..	..	460	..	..	..	..	876
19·54	0·097	+ 0·01	9·95158	0·20246	1·64872	0·15412	58·696	1549	21498 (B.A.)	18	..	..	247	..	..	..	..	..	877
19·55	0·094	+ 0·04	9·92075	0·15744	1·64887	0·15311	64·216	1550	...	20	..	..	..	..	338	..	..	..	878
19·57	0·089	+ 0·04	9·87829	0·06104	1·64906	0·15179	73·392	1551	21532 (B.A.)	23	..	141	..	461	..	257	..	..	879
19·59	0·093	+ 0·59	9·97653	0·23610	1·64928	0·15028	54·409	1553	21554 (B.A.)	28	..	..	..	463	340	..	..	..	880

The magnitudes of Stars taken from Argelander are marked with Asterisks. Other magnitudes are taken in the order of preference from the British Association Catalogue of 8377 Stars; from the Catalogue of Lalande published by the British Association; from Weisse's *Catalogus Stellarum ex Zonis Regiomontanis*; or, for the variable stars, from Mr. Pogson's lists in the "Radcliffe Observations, 1854 and 1856." The authorities for any remaining magnitudes are given in the Notes.

No.	Magnitude.	Star's Name.	Mean Right Ascension, 1860, Jan. 1, from Observations, 1854 to 1860.	Mean Year and Fraction of Year.	Number of Observations.	Annual Precession in R.A. for 1860, from Peters' Elements.	Secular Variation of Precession in R.A.	Annual Proper Motion in R.A. from Main or B.A.C.	Logarithms of e	f	g	h	Value of l	Mean North Polar Distance, 1860, Jan. 1, from Observations, 1854 to 1860.	Mean Year and Fraction of Year.	Number of Observations.
			h m s			s	s	s					s	° ′ ″		
881	4·3*	53 Ursæ Majoris..... ξ²	11. 10. 42·59	1855·0	7	+ 3·253	−0·0215	− 0·037	0·05036	0·08523	1·45106	0·06400	88·633	57. 41. 2·27	1855·0	6
882	7	Piazzi XI. 31	11. 11. 2·75	1854·3	3	3·136	−0·0077	+ 0·013	0·05431	0·08439	1·44926	0·07381	87·914	77. 14. 59·26	1854·3	3
883	5*	55 Ursæ Majoris	11. 11. 29·42	1859·3	4	3·299	−0·0280	− 0·004	0·04774	0·08565	1·45177	0·05968	89·003	51. 2. 49·46	1859·3	4
884	3·4*	12 Crateris .... δ	11. 12. 20·61	1856·1	33	3·003	+0·0063	− 0·009	0·05414	0·08430	1·44721	0·08504	87·314	104. 1. 16·96	1855·9	24
885	4*	77 Leonis........... σ	11. 13. 54·98	1857·5	40	3·104	−0·0042	− 0·009	0·05470	0·08401	1·44877	0·07635	87·779	83. 12. 14·30	1857·4	42
886	6*	Piazzi XI. 43	11. 14. (30.)	..	..	+ 3·640	−0·0873	− 0·003	0·01903	0·09034	1·45697	0·02499	92·250	24. 54. 14·38	1858·8	8
887	5*	Piazzi XI. 55	11. 16. 26·24	1855·3	2	2·893	+0·0180	+ 0·015	0·04909	0·08474	1·44549	0·09571	86·987	125. 23. 52·25	1855·3	3
888	4*	78 Leonis .... ι	11. 16. 37·45	1854·5	8	3·122	−0·0066	+ 0·007	0·05432	0·08379	1·44905	0·07441	87·930	78. 42. 0·43	1854·5	7
889	5*	14 Crateris .... ε	11. 17. 32·42	1859·3	5	3·028	+0·0046	+ 0·001	0·05439	0·08367	1·44760	0·08338	87·428	100. 5. 30·59	1859·3	5
890	6*	Piazzi XI. 60	11. 17. 43·21	1854·3	3	3·125	−0·0070	+ 0·001	0·05421	0·08368	1·44909	0·07403	87·968	77. 48. 3·57	1854·3	3
891	6*	Piazzi XI. 59	11. 18. 1·94	1859·3	2	+ 3·442	−0·0557	− 0·007	0·03378	0·08709	1·45395	0·04160	90·784	33. 22. 56·09	1859·3	2
892	6*	81 Leonis	11. 18. 18·24	1856·3	5	3·147	−0·0100	− 0·005	0·05360	0·08372	1·44943	0·07176	88·133	72. 46. 27·55	1856·3	7
893	7	Piazzi XI. 69	11. 19. 3·03	1854·1	3	3·112	−0·0054	+ 0·012	0·05442	0·08351	1·44888	0·07522	87·901	80. 34. 15·20	1854·1	3
894	..	......	11. 19. 14·35	1857·3	2	3·093	−0·0030	..	0·05466	0·08344	1·44859	0·07713	87·781	85. 3. 23·57	1857·3	2
895	7	83 Leonis (1st Star)	11. 19. 40·05	1858·9	7	3·087	−0·0023	− 0·057	0·05470	0·08339	1·44851	0·07761	87·755	86. 13. 27·47	1858·9	7
896	7·8	83 Leonis (2d Star).....	11. 19. 41·12	1858·9	7	+ 3·087	−0·0023	− 0·057	0·05470	0·08339	1·44851	0·07762	87·755	86. 13. 53·08	1858·9	7
897	5*	84 Leonis .... τ	11. 20. 44·20	1856·8	45	3·086	−0·0022	− 0·001	0·05467	0·08328	1·44850	0·07767	87·762	86. 22. 23·65	1856·2	41
898	8	W. B. XI. 349	11. 20. 45·17	1856·0	4	3·086	−0·0022	..	0·05467	0·08328	1·44849	0·07768	87·763	86. 23. 56·41	1856·3	3
899	6*	85 Leonis.............	11. 22. 24·11	1854·2	3	3·135	−0·0091	+ 0·003	0·05366	0·08327	1·44925	0·07221	88·144	73. 48. 49·96	1854·3	2
900	7	Piazzi XI. 85	11. 22. 26·02	1854·3	3	3·104	−0·0046	+ 0·004	0·05443	0·08314	1·44877	0·07566	87·904	81. 37. 43·83	1854·3	3
901	6*	58 Ursæ Majoris	11. 22. 56·03	1856·3	3	+ 3·279	−0·0325	+ 0·011	0·04479	0·08454	1·45147	0·05560	89·563	46. 3. 31·08	1856·3	3
902	3·4*	1 Draconis .... λ	11. 23. (3.)	..	..	3·665	−0·1133	− 0·009	0·00288	0·09042	1·45735	0·00783	94·195	19. 53. 49·07	1858·2	6
903	5*	87 Leonis .... e	11. 23. 9·69	1859·5	10	3·064	+0·0010	− 0·001	0·05466	0·08305	1·44814	0·08011	87·639	92. 13. 52·54	1859·5	10
904	6*	88 Leonis.............	11. 24. 31·11	1854·2	2	3·128	−0·0084	− 0·018	0·05375	0·08301	1·44914	0·07268	88·132	74. 51. 22·64	1854·2	2
905	..	17 Crateris (1st Star)...	11. 25. 19·99	1859·3	4	2·963	+0·0149	− 0·005	0·05116	0·08330	1·44658	0·09195	87·139	118. 29. 48·01	1859·3	5
906	5*	17 Crateris (2d Star) ...	11. 25. 20·41	1859·3	3	+ 2·963	+0·0149	− 0·005	0·05116	0·08330	1·44658	0·09195	87·139	118. 29. 39·57	1859·3	4
907	4*	Bradley 1580	11. 26. 7·38	1857·4	19	2·953	+0·0165	− 0·016	0·05038	0·08331	1·44643	0·09334	87·100	121. 4. 59·20	1857·4	19
908	6*	89 Leonis.............	11. 27. 12·06	1856·4	9	3·085	−0·0019	− 0·008	0·05457	0·08261	1·44847	0·07758	87·823	86. 9. 44·96	1856·4	9
909	6	20 Crateris............	11. 27. 41·70	1858·1	10	2·954	+0·0173	− 0·057	0·05003	0·08316	1·44645	0·09391	87·092	122. 5. 23·83	1858·1	10
910	6	2 Draconis	11. 27. 47·23	1860·2	1	3·590	−0·1094	+ 0·023	0·00263	0·08901	1·45621	0·00759	94·412	19. 53. 52·41	1860·2	1
911	9	W. B. XI. 486	11. 28. 27·16	1854·2	1	+ 3·027	+0·0073	..	0·05384	0·08257	1·44757	0·08506	87·424	103. 54. 31·60	1854·2	1
912	6*	Piazzi XI. 111	11. 28. 55·66	1856·3	3	3·170	−0·0170	− 0·001	0·05108	0·08288	1·44979	0·06597	88·718	61. 26. 43·31	1857·1	5
913	..	......	11. 29. 9·96	1860·3	3	3·076	−0·0005	..	0·05458	0·08241	1·44834	0·07861	87·776	88. 37. 44·62	1860·3	3
914	7	Piazzi XI. 113	11. 29. 22·45	1854·3	2	3·094	−0·0035	+ 0·010	0·05439	0·08241	1·44861	0·07629	87·928	83. 6. 55·19	1854·3	2
915	5·4*	91 Leonis .... υ	11. 29. 46·84	1857·1	42	3·072	+0·0002	− 0·003	0·05458	0·08234	1·44827	0·07920	87·746	90. 3. 4·08	1857·2	31
916	..	W. B. XI. 534	11. 30. 58·55	1854·3	1	+ 3·080	−0·0011	..	0·05454	0·08222	1·44840	0·07805	87·826	87. 17. 53·45	1854·3	1
917	6*	1 Virginis .... ω	11. 31. 14·40	1854·2	3	3·098	−0·0044	0·000	0·05425	0·08223	1·44868	0·07541	88·004	81. 5. 28·84	1854·2	3
918	7	Piazzi XI. 126	11. 31. 15·00	1854·3	3	3·067	+0·0011	+ 0·008	0·05455	0·08219	1·44820	0·07988	87·716	91. 39. 42·64	1854·3	3
919	7	Piazzi XI. 132	11. 33. 13·47	1854·3	3	3·077	−0·0005	+ 0·008	0·05452	0·08199	1·44835	0·07846	87·819	88. 16. 19·57	1854·3	3
920	..	......	11. 33. 33·78	1854·3	1	3·078	−0·0008	..	0·05451	0·08196	1·44837	0·07821	87·837	87. 40. 46·08	1854·3	1

887. This star is identical with Lacaille 4728.
905, 906, 909. These stars are placed in the constellation Hydra in the B. A. C.
910. This star is identical with Schwerd 688.
902. This star is identical with Schwerd 687.
906, 907, 909. These stars are respectively identical with Lacaille 4770, 4779 and 4788.

Annual Precession in N.P.D. for 1860, from Peters' Elements.	Secular Variation of Precession in N.P.D.	Annual Proper Motion in N.P.D. from Main or B.A.C.	Logarithms of c′	f′	g′	h′	Value of l′	No. in Bessel's Bradley. 1755.	No. in Lalande Fedorenko (F.) 1790, or British Association (B.A.) 1800.	Hour and No. in Piazzi. 1800.	No. in Groombridge. 1810.	Hour and No. in Weisse's Bessel. 1825.	No. in Argelander. 1830.	No. in Pond's 1112. 1830.	No. in First Cambridge Catalogue. 1830.	No. in Johnson's (St. Helena). 1830.	No. in Fallows. 1830.	No. in Struve. 1830.	No
″	″	″					″			XI.		XI.							
+19·59	+0·093	+ 0·59	9·97653	0·23610	1·64928	0·15028	54·409	1553	21554 (B.A.)	28	..	..	248	463	340	..	..	1295	881
19·60	0·089	+ 0·15	9·91572	0·15096	1·64934	0·14983	65·198	..	...	31	..	169	..	..	..	..	..	..	882
19·61	0·093	+ 0·09	9·99760	0·25878	1·64942	0·14924	50·990	1555	21567 (B.A.)	33	1764	..	..	465	..	..	..	..	883
19·62	0·082	− 0·18	9·86273	9·98363	1·64958	0·14812	78·989	1557	21589 (B.A.)	38	..	198	250	467	..	258	..	..	884
19·65	0·082	+ 0·03	9·89911	0·11926	1·64984	0·14604	68·707	1558	21632 (B.A.)	42	..	223	..	468	345	..	203	1304	885
+19·66	+0·096	+ 0·06	0·07780	0·31998	1·64994	0·14527	39·340	..	{ 1862 (F.) 21634 (B.A.) }	43	1771	..	..	..	..	..	..	..	886
19·70	0·071	+ 0·21	9·86741	9·80013	1·65026	0·14267	87·442	..	...	55	..	..	..	..	..	..	..	..	887
19·70	0·077	+ 0·07	9·90924	0·14377	1·65028	0·14244	66·565	1560	21693 (B.A.)	54	..	269	..	469	347	..	..	1308	888
19·71	0·073	− 0·01	9·86953	0·01184	1·65043	0·14121	77·535	1563	21718 (B.A.)	58	..	285	..	471	..	260	..	..	889
19·72	0·075	+ 0·03	9·91100	0·14852	1·65046	0·14096	66·194	..	21722 (B.A.)	60	..	287	..	..	..	..	..	..	890
+19·72	+ 0·083	− 0·04	0·04657	0·30558	1·65051	0·14054	43·425	..	1869 (F.)	59	1776	..	..	..	..	..	..	..	891
19·73	0·075	0·00	9·92381	0·17359	1·65055	0·14017	63·544	1565	21739 (B.A.)	64	..	..	..	..	..	..	..	1310	892
19·74	0·072	+ 0·16	9·90363	0·13395	1·65067	0·13916	67·815	..	21766 (B.A.)	69	..	321	..	..	..	..	..	..	893
19·74	0·071	..	9·89376	0·10888	1·65069	0·13892	70·191	..	...	..	..	..	..	..	..	..	..	..	894
19·75	0·070	− 0·17	9·89126	0·10208	1·65076	0·13833	70·840	1568	21781 (B.A.)	70	..	330	253	..	350	..	..	1313	895
+19·75	+ 0·070	− 0·17	9·89126	0·10198	1·65077	0·13831	70·847	..	21783 (B.A.)	71	..	331	..	..	..	..	..	..	896
19·76	0·068	+ 0·02	9·89081	0·10121	1·65092	0·13687	71·018	1570	21817 (B.A.)	76	..	348	..	473	352	..	..	..	897
19·76	0·068	..	9·89076	0·10101	1·65092	0·13685	71·038	..	21819 (B.A.)	..	..	349	..	..	354	..	..	..	898
19·79	0·066	+ 0·03	9·91845	0·16879	1·65115	0·13460	64·578	1573	21855 (B.A.)	83	..	..	..	..	..	..	..	..	899
19·79	0·065	+ 0·07	9·90004	0·12825	1·65115	0·13455	68·729	..	21860 (B.A.)	85	..	..	..	..	..	..	..	..	900
+19·79	+ 0·069	− 0·04	9·99965	0·27526	1·65123	0·13384	50·123	1574	21868 (B.A.)	87	1793	..	..	..	..	..	..	..	901
19·80	0·077	+ 0·06	0·08034	0·32799	1·65124	0·13371	38·950	1572	1887 (F.)	86	1790	..	..	474	356	..	..	1317	902
19·80	0·063	+ 0·03	9·88093	0·06504	1·65125	0·13355	74·199	1576	21878 (B.A.)	89	..	394	..	475	..	262	..	..	903
19·82	0·062	+ 0·20	9·91455	0·16383	1·65143	0·13168	65·373	1577	21898 (B.A.)	93	..	..	256	..	..	..	..	1322	904
19·83	0·057	− 0·11	9·87320	9·86231	1·65154	0·13056	85·563	..	...	95	..	..	..	..	..	..	..	..	905
+19·83	+0·057	− 0·11	9·87320	9·86230	1·65154	0·13054	85·565	1578	...	96	..	..	..	..	..	..	..	..	906
19·84	0·055	+ 0·03	9·87645	9·83844	1·65164	0·12944	86·470	1580	...	103	..	..	..	476	..	263	..	..	907
19·85	0·056	+ 0·13	9·89014	0·10250	1·65177	0·12795	71·546	1582	21965 (B.A.)	106	..	459	258	..	..	..	208	..	908
19·86	0·052	− 0·82	9·87950	9·82874	1·65183	0·12726	86·864	1584	...	110	..	..	..	..	..	..	..	..	909
19·86	0·065	+ 0·12	0·07335	0·32859	1·65185	0·12714	39·790	1581	1912 (F.)	107	1802	..	..	..	..	..	..	..	910
+19·87	+ 0·052	..	9·87262	9·98307	1·65192	0·12620	80·042	..	...	..	..	486	..	..	..	..	..	..	911
19·87	0·054	+ 0·05	9·94616	0·22364	1·65197	0·12555	58·850	..	21999 (B.A.)	111	..	..	..	..	..	..	..	1330	912
19·88	0·052	..	9·88615	0·08765	1·65200	0·12520	72·972	..	...	..	..	..	..	..	..	..	..	..	913
19·88	0·052	+ 0·04	9·89498	0·12017	1·65203	0·12490	70·218	..	...	113	..	503	..	..	..	..	..	..	914
19·88	0·050	− 0·03	9·88423	0·07887	1·65207	0·12433	73·726	1586	22022 (B.A.)	116	..	511	..	478	359	..	210	1334	915
+19·90	+0·048	..	9·88790	0·09577	1·65220	0·12266	72·486	..	...	..	..	534	..	..	..	..	..	..	916
19·90	0·048	+ 0·05	9·89801	0·13155	1·65223	0·12228	69·379	1590	22066 (B.A.)	125	..	538	..	..	..	..	..	..	917
19·90	0·047	+ 0·04	9·88230	0·06862	1·65223	0·12226	74·650	..	22068 (B.A.)	126	..	540	..	..	..	..	..	1336	918
19·92	0·044	+ 0·07	9·88638	0·08992	1·65244	0·11943	73·187	..	22109 (B.A.)	132	..	571	..	..	..	..	..	..	919
19·92	0·043	..	9·88711	0·09348	1·65247	0·11898	72·931	..	...	..	..	..	..	..	..	..	..	..	920

The magnitudes of Stars taken from Argelander are marked with Asterisks. Other magnitudes are taken in the order of preference from the British Association Catalogue of 8377 Stars; from the Catalogue of Lalande published by the British Association; from Weisse's *Catalogus Stellarum ex Zonis Regiomontanis*; or, for the variable stars, from Mr. Pogson's lists in the "Radcliffe Observations, 1854 and 1856." The authorities for any remaining magnitudes are given in the Notes.

No.	Magnitude.	Star's Name.	Mean Right Ascension, 1860, Jan. 1, from Observations, 1854 to 1860.	Mean Year and Fraction of Year.	Number of Observations.	Annual Precession in R.A. for 1860, from Peters' Elements.	Secular Variation of Precession in R.A.	Annual Proper Motion in R.A. from Main or B.A.C.	Logarithms of e	f	g	h	Value of l	Mean North Polar Distance, 1860, Jan. 1, from Observations, 1854 to 1860.	Mean Year and Fraction of Year.	Number of Observations.
			h m s			s	s	s					s	° ′ ″		
921	5*	61 Ursæ Majoris	11. 33. 40·27	1860·3	3	+ 3·179	−0·0219	+ 0·004	0·04889	0·08254	1·44993	0·06207	89·132	55. 0. 28·03	1860·3	3
922	5·6*	3 Draconis	11. 34. 37·88	1855·8	2	3·429	−0·0881	− 0·006	0·01146	0·08610	1·45376	0·01699	93·738	22. 28. 50·04	1857·7	33
923	7	Piazzi XI. 144	11. 34. 57·73	1854·3	2	3·086	−0·0024	− 0·025	0·05439	0·08181	1·44849	0·07686	87·940	84. 28. 40·76	1854·3	2
924	..	......	11. 37. 55·51	1854·2	1	3·076	−0·0002	..	0·05446	0·08150	1·44833	0·07848	87·856	88. 18. 45·26	1854·2	1
925	9	W. B. XI. 657	11. 37. 56·57	1854·2	1	3·076	−0·0002	..	0·05446	0·08150	1·44833	0·07848	87·856	88. 18. 48·93	1854·2	1
926	5·4*	2 Virginis .... ξ	11. 38. 4·10	1854·2	1	+ 3·092	−0·0041	+ 0·002	0·05416	0·08151	1·44859	0·07535	88·071	80. 57. 49·62	1854·2	1
927	4·5*	3 Virginis .... ν	11. 38. 39·72	1855·3	3	3·088	−0·0032	+ 0·001	0·05426	0·08144	1·44852	0·07609	88·025	82. 41. 10·89	1855·7	2
928	6*	4 Virginis .... A¹	11. 40. 43·27	1855·3	4	3·090	−0·0040	− 0·005	0·05412	0·08123	1·44855	0·07535	88·095	80. 58. 36·38	1855·3	5
929	4·5	93 Leonis	11. 40. 45·58	1856·5	7	3·115	−0·0110	− 0·014	0·05264	0·08135	1·44894	0·06985	88·529	69. 0. 11·49	1856·8	24
930	8	Piazzi XI. 162	11. 41. 46·40	1854·3	2	3·101	−0·0074	..	0·05350	0·08116	1·44872	0·07256	88·319	74. 42. 56·32	1854·3	2
931	2*	94 Leonis .... β	11. 41. 54·98	1856·5	53	+ 3·101	−0·0075	− 0·036	0·05349	0·08115	1·44872	0·07253	88·322	74. 38. 43·96	1856·8	59
932	3·4*	5 Virginis .... β	11. 43. 24·13	1857·1	22	3·076	−0·0004	+ 0·048	0·05439	0·08093	1·44834	0·07811	87·927	87. 26. 47·35	1856·9	19
933	6	Piazzi XI. 167	11. 43. 53·03	1858·5	9	3·065	+0·0034	+ 0·011	0·05434	0·08088	1·44816	0·08110	87·739	94. 33. 17·67	1858·5	9
934	6·7	Groombridge 1830...	11. 44. 53·91	1857·7	18	3·143	−0·0240	+ 0·344	0·04717	0·08121	1·44936	0·05944	89·554	51. 16. 37·44	1857·7	18
935	4*	28 Crateris	11. 45. 50·69	1856·2	9	3·018	+0·0199	− 0·008	0·04943	0·08095	1·44744	0·09462	87·156	123. 7. 45·93	1856·2	9
936	..	......	11. 45. 55·00	1854·2	1	+ 3·050	+0·0090	..	0·05350	0·08071	1·44793	0·08557	87·512	104. 57. 56·73	1854·2	1
937	2·3*	64 Ursæ Majoris ..... γ	11. 46. 27·06	1857·8	32	3·183	−0·0437	+ 0·011	0·03563	0·08163	1·44998	0·04406	91·204	35. 31. 37·22	1857·7	31
938	7	Piazzi XI. 179	11. 46. 42·67	1854·3	3	3·068	+0·0027	+ 0·018	0·05436	0·08058	1·44821	0·08044	87·802	92. 59. 46·45	1854·3	3
939	..	......	11. 47. 7·54	1860·3	2	3·079	−0·0015	..	0·05430	0·08053	1·44837	0·07701	88·033	84. 52. 30·71	1860·3	2
940	8	W. B. XI. 804	11. 47. 11·47	1854·2	1	3·086	−0·0046	..	0·05394	0·08055	1·44849	0·07455	88·214	79. 10. 25·73	1854·2	1
941	8	Lalande 22547	11. 51. 31·98	1855·3	10	+ 3·112	−0·0231	..	0·04715	0·08032	1·44888	0·05945	89·653	51. 20. 40·28	1855·3	10
942	..	......	11. 51. 46·32	1854·3	1	3·089	−0·0094	..	0·05278	0·08010	1·44854	0·07046	88·594	70. 18. 30·52	1854·3	1
943	6·7	Piazzi XI. 247	11. 51. 53·68	1854·3	3	3·073	+0·0008	− 0·017	0·05437	0·08004	1·44829	0·07863	87·957	88. 41. 27·93	1854·3	3
944	9	W. B. XI. 890	11. 52. 15·83	1854·1	1	3·060	+0·0096	..	0·05343	0·08003	1·44808	0·08571	87·543	105. 16. 22·54	1854·1	1
945	6*	7 Virginis .... b	11. 52. 46·64	1857·2	2	3·075	−0·0008	− 0·002	0·05430	0·07995	1·44832	0·07731	88·056	85. 33. 53·83	1857·2	2
946	6	Groombridge 1845...	11. 52. (55.)	..	..	+ 3·353	−0·2387	..	9·87043	0·08429	1·45260	9·87324	108·398	8. 21. 57·53	1860·1	12
947	4·5*	8 Virginis .... π	11. 53. 41·89	1856·6	44	3·077	−0·0023	0·000	0·05415	0·07985	1·44835	0·07605	88·158	82. 36. 18·12	1855·6	28
948	6	1 Comæ	11. 54. 33·91	1857·1	4	3·085	−0·0111	− 0·002	0·05218	0·07981	1·44848	0·06888	88·765	67. 7. 32·96	1857·2	8
949	Var.	......	11. 56. 51·28	1860·3	2	3·079	−0·0090	..	0·05278	0·07953	1·44837	0·07050	88·645	70. 24. 7·97	1860·3	3
950	6	Groombridge 1850...	11. 57. 37·58	1860·6	4	3·286	−0·5335	..	9·17462	0·08303	1·45157	9·18067	138·263	3. 38. 12·23	1860·6	4
951	4*	9 Virginis .... o	11. 58. 4·69	1856·0	1	+ 3·074	−0·0032	− 0·013	0·05401	0·07939	1·44830	0·07512	88·266	80. 29. 21·55	1856·0	1
952	..	......	11. 58. 24·19	1855·3	1	3·071	+0·0045	..	0·05426	0·07935	1·44826	0·08137	87·824	95. 11. 38·24	1855·3	1
953	6	Groombridge 1853...	11. 58. (34.)	..	..	3·089	−0·0593	..	0·02096	0·07952	1·44853	0·02735	93·410	26. 17. 4·22	1854·3	2
954	8	W. B. XI. 1013	12. 0. 3·37	1855·3	1	3·072	+0·0047	..	0·05425	0·07918	1·44827	0·08142	87·833	95. 18. 21·30	1855·3	1
955	4*	1 Corvi .... α	12. 1. 11·90	1859·3	3	3·075	+0·0153	+ 0·010	0·05194	0·07905	1·44832	0·08977	87·403	113. 56. 51·82	1859·3	3
956	6*	10 Virginis	12. 2. 30·89	1858·0	8	+ 3·071	+0·0006	+ 0·001	0·05433	0·07892	1·44826	0·07805	88·079	87. 18. 57·49	1858·0	8
957	3*	2 Corvi .... ε	12. 2. 55·79	1856·2	19	3·079	−0·0076	− 0·005	0·05238	0·07885	1·44838	0·08874	87·455	111. 50. 27·41	1856·0	16
958	..	......	12. 4. 7·95	1854·2	1	3·073	+0·0027	..	0·05436	0·07875	1·44828	0·07967	87·976	91. 9. 16·62	1854·2	1
959	6*	4 Comæ	12. 4. 44·81	1854·3	3	3·058	−0·0127	− 0·001	0·05132	0·07862	1·44806	0·06690	89·069	63. 20. 59·05	1854·3	5
960	5·4*	Bradley 1634	12. 5. 35·51	1858·6	3	2·913	−0·1280	+ 0·007	9·93879	0·07624	1·44581	9·94225	183·105	11. 36. 20·46	1857·3	25

935. This star is identical with Lacaille 4923.
946. This star is identical with Schwerd 707.
949. This star is the variable R Comæ: it is of the 8th magnitude at the maximum.
950. This star is identical with Schwerd 711.
955. This star is identical with Lacaille 5035.
960. This star is identical with Schwerd 720.

Annual Precession in N.P.D. for 1860, from Peters' Elements.	Secular Variation of Precession in N.P.D.	Annual Proper Motion in N.P.D. from Main or B.A.C.	Logarithms of c′	f′	g′	h′	Value of l′	No. in Bessel's Bradley. 1755.	No. in Lalande Fedorenko (F.) 1790, or British Association (B.A.) 1800.	Hour and No. in Piazzi. 1800.	No. in Groombridge. 1810.	Hour and No. in Weisse's Bessel. 1825.	No. in Argelander. 1830.	No. in Pond's 1112. 1830.	No. in First Cambridge Catalogue. 1830.	No. in Johnson's (St. Helena). 1830.	No. in Fallows. 1830.	No. in Struve. 1830.	No.
″	″	″					″			XI.		XI.							
+19·92	+0·045	+ 0·46	9·95918	0·24792	1·65248	0·11882	56·221	1593	22116 (B.A.)	135	..	..	259	..	..	..	..	..	921
19·93	0·047	− 0·05	0·05545	0·32599	1·65257	0·11745	41·954	1595	{1935 (F.) 22134 (B.A.)}	139	1819	..	..	..	..	..	..	..	922
19·94	0·041	− 0·01	9·89131	0·11246	1·65260	0·11695	71·496	..	22148 (B.A.)	144	..	606	..	..	..	..	..	..	923
19·96	0·035	..	9·88598	0·08964	1·65286	0·11267	73·680	..	...	..	..	..	..	..	..	..	..	..	924
19·96	0·035	..	9·88598	0·08964	1·65286	0·11265	73·682	..	22221 (B.A.)	..	..	657	..	..	..	..	..	..	925
+19·96	+0·035	+ 0·02	9·89564	0·13235	1·65287	0·11246	70·087	1599	22223 (B.A.)	151	..	660	..	480	364	..	..	..	926
19·97	0·033	+ 0·21	9·89287	0·12281	1·65292	0·11158	71·008	1601	22242 (B.A.)	153	..	668	262	482	365	..	..	..	927
19·99	0·029	0·00	9·89465	0·13232	1·65307	0·10856	70·398	1602	22292 (B.A.)	158	..	706	..	..	..	..	..	..	928
19·99	0·030	0·00	9·91640	0·19232	1·65307	0·10851	64·371	1603	...	159	..	..	263	483	..	..	..	..	929
19·99	0·027	..	9·90434	0·16517	1·65314	0·10703	67·395	..	22308 (B.A.)	162	..	..	..	..	..	..	..	..	930
+19·99	+0·027	+ 0·10	9·90445	0·16551	1·65316	0·10681	67·376	1605	22314 (B.A.)	163	..	..	264	484	366	..	211	1350	931
20·00	0·024	+ 0·28	9·88632	0·09495	1·65325	0·10461	73·834	1606	22341 (B.A.)	166	..	745	265	485	367	..	212	1351	932
20·01	0·023	+ 0·10	9·88184	0·04955	1·65328	0·10390	77·169	..	22361 (B.A.)	167	..	753	..	..	..	..	..	..	933
20·01	0·022	+ 5·70	9·95550	0·26105	1·65334	0·10238	56·170	..	22369 (B.A.)	..	1830	..	..	..	..	..	..	..	934
20·02	0·019	+ 0·05	9·90466	9·81588	1·65339	0·10096	88·001	1607	...	172	..	..	..	486	..	267	213	..	935
+20·02	+0·019	..	9·88360	9·97415	1·65339	0·10085	81·765	..	...	..	..	..	..	..	..	..	..	..	936
20·02	0·019	0·00	9·99822	0·30371	1·65342	0·10006	49·289	1608	{1962 (F.) 22411 (B.A.)}	174	1831	..	266	487	368	..	..	1358	937
20·02	0·017	+ 0·06	9·88292	0·05985	1·65343	0·09965	76·738	..	22423 (B.A.)	179	..	796	..	..	..	..	..	..	938
20·02	0·017	..	9·88807	0·11027	1·65345	0·09903	73·022	..	...	..	..	..	..	..	..	..	..	..	939
20·02	0·017	..	9·89448	0·14228	1·65345	0·09895	70·275	..	22435 (B.A.)	..	..	804	..	..	..	..	..	..	940
+20·04	+0·008	..	9·94655	0·26105	1·65363	0·09235	57·316	..	22547 (B.A.)	..	..	..	..	..	..	..	..	..	941
20·04	0·008	..	9·90499	0·18656	1·65363	0·09200	66·546	..	...	..	..	..	..	..	..	..	..	..	942
20·04	0·007	− 0·06	9·88480	0·08741	1·65363	0·09181	75·314	..	22555 (B.A.)	207	..	883	267	..	..	..	..	..	943
20·04	0·006	..	9·88790	9·97167	1·65365	0·09122	82·369	..	...	..	..	890	..	..	..	..	..	..	944
20·05	0·006	+ 0·02	9·88638	0·10628	1·65366	0·09043	73·981	1617	22571 (B.A.)	208	..	899	..	..	371	..	..	..	945
+20·05	+0·007	..	0·06726	0·34023	1·65367	0·09022	41·260	..	1987 (F.)	..	1845	..	..	..	..	..	..	..	946
20·05	0·004	+ 0·04	9·88829	0·12335	1·65368	0·08902	72·713	1618	22590 (B.A.)	211	..	919	..	488	373	..	..	..	947
20·05	+0·002	+ 0·02	9·90816	0·20098	1·65370	0·08768	65·400	1620	22616 (B.A.)	216	..	..	268	..	..	..	..	..	948
20·05	−0·003	..	9·90080	0·18623	1·65374	0·08413	67·310	..	22665 (B.A.)	..	..	..	..	..	..	..	..	..	949
20·06	0·004	..	0·07287	0·34202	1·65375	0·08285	41·161	..	2000 (F.)	..	1850	..	..	..	..	..	..	..	950
+20·06	−0·005	− 0·02	9·88840	0·13525	1·65375	0·08219	72·255	1623	...	228	..	991	..	489	377	..	..	..	951
20·06	0·006	..	9·88491	0·04508	1·65375	0·08170	78·845	..	...	..	..	..	..	..	..	..	..	..	952
20·06	0·006	..	0·00578	0·32152	1·65375	0·08144	48·026	..	2011 (F.)	..	1853	..	..	..	..	..	..	..	953
20·06	0·009	..	9·88530	0·04440	1·65376	0·07910	79·049	..	22744 (B.A.)	..	..	1013	..	..	..	..	..	..	954
20·06	0·011	+ 0·04	9·90607	9·89986	1·65375	0·07728	86·074	1624	22775 (B.A.)	241	..	..	..	490	379	271	..	..	955
+20·05	−0·014	+ 0·21	9·88423	0·09580	1·65374	0·07518	75·890	1625	22807 (B.A.)	246	..	XII. 14	271	..	381	..	..	..	956
20·05	0·014	− 0·01	9·90417	9·91809	1·65374	0·07452	85·502	1626	22817 (B.A.)	248	..	..	..	491	..	272	..	..	957
20·05	0·017	..	9·88457	0·07186	1·65373	0·07260	77·721	...	...	..	..	..	..	..	..	..	..	..	958
20·05	0·018	+ 0·03	9·90466	0·21707	1·65372	0·07164	65·169	1630	22876 (B.A.)	XII. 7	..	..	..	..	..	..	..	..	959
20·05	0·019	− 0·03	0·03695	0·33831	1·65370	0·07024	44·849	1634	2027 (F.)	10	1859	..	..	492	..	..	..	..	960

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No.	Magnitude.	Star's Name.	Mean Right Ascension, 1860, Jan. 1, from Observations, 1854 to 1860.	Mean Year and Fraction of Year.	Number of Observations.	Annual Precession in R.A. for 1860, from Peters' Elements.	Secular Variation of Precession in R.A.	Annual Proper Motion in R.A. from Main or B.A.C.	Logarithms of e	Logarithms of f	Logarithms of g	Logarithms of h	Value of l	Mean North Polar Distance, 1860, Jan. 1, from Observations, 1854 to 1860.	Mean Year and Fraction of Year.	Number of Observations.
			h m s			s	s	s					s	° ′ ″		
961	..	......	12. 5. 50·13	1854·2	1	+ 3·060	−0·0084	..	0·05276	0·07853	1·44808	0·07043	88·743	70. 14. 49·10	1854·2	1
962	..	......	12. 7. 52·03	1854·2	1	3·073	+0·0032	..	0·05436	0·07835	1·44830	0·07990	87·986	91. 42. 32·46	1854·2	1
963	6	Groombridge 1863...	12. 8. 26·46	1854·3	3	2·929	−0·0761	..	9·99806	0·07645	1·44606	0·00291	96·617	19. 1. 13·48	1854·3	7
964	5*	6 Comæ	12. 8. 53·54	1859·3	5	3·057	−0·0059	− 0·003	0·05338	0·07821	1·44805	0·07236	88·596	74. 19. 17·16	1859·3	9
965	6*	2 Canum Venaticûm...	12. 9. 6·06	1860·0	3	3·025	−0·0231	+ 0·003	0·04577	0·07791	1·44755	0·05736	90·149	48. 33. 36·03	1860·0	3
966	5·6*	7 Comæ............	12. 9. 15·18	1859·6	3	+ 3·047	−0·0111	+ 0·005	0·05180	0·07811	1·44789	0·06794	89·017	65. 16. 33·61	1859·9	11
967	5*	Piazzi XII. 29	12. 9. 27·54	1859·6	3	3·035	−0·0171	+ 0·005	0·04914	0·07799	1·44770	0·06271	89·561	56. 9. 20·01	1860·1	9
968	8·9	W. B. XII. 136	12. 9. 33·54	1854·1	1	3·074	+0·0035	..	0·05436	0·07818	1·44830	0·08001	87·991	91. 57. 34·48	1854·1	1
969	6	13 Virginis	12. 11. 29·70	1859·5	6	3·072	+0·0026	0·000	0·05438	0·07798	1·44827	0·07918	88·062	90. 0. 31·70	1859·5	6
970	6	8 Comæ............	12. 12. 14·72	1857·3	2	3·041	−0·0103	+ 0·002	0·05202	0·07777	1·44779	0·06842	89·001	66. 11. 14·18	1857·1	10
971	6·5*	Bradley 1650........	12. 12. (33.)	..	..	+ 2·780	−0·0937	+ 0·022	9·96667	0·07372	1·44373	9·97046	100·530	14. 3. 43·07	1860·3	4
972	3·4*	15 Virginis .... η	12. 12. 44·64	1856·8	55	3·072	+0·0026	− 0·007	0·05439	0·07784	1·44827	0·07913	88·076	89. 53. 18·36	1856·4	48
973	5*	16 Virginis c	12. 13. 14·35	1859·3	6	3·067	+0·0005	− 0·019	0·05434	0·07778	1·44819	0·07746	88·204	85. 54. 26·56	1859·3	6
974	5*	11 Comæ............	12. 13. 38·48	1859·3	4	+ 3·045	+0·0127	− 0·009	0·05300	0·07767	1·44786	0·07101	88·764	71. 25. 59·75	1859·3	4
975	6	Bradley 1672	12. 14. 21·46	1860·5	2	− 0·073	+1·1777	† ..	..	..	..	..	..	1. 31. 25·36	1860·5	2
976	5*	12 Comæ	12. 15. 27·86	1859·3	6	+ 3·027	−0·0117	+ 0·002	0·05138	0·07735	1·44757	0·06694	89·188	63. 22. 35·60	1859·3	6
977	5*	13 Comæ	12. 17. 17·01	1854·3	3	3·021	−0·0117	+ 0·001	0·05133	0·07715	1·44748	0·06681	89·222	63. 7. 29·07	1854·3	6
978	5·4*	14 Comæ	12. 19. 23·80	1859·2	4	3·012	−0·0122	+ 0·003	0·05105	0·07687	1·44734	0·06618	89·312	61. 57. 21·11	1859·2	4
979	4·5*	15 Comæ	12. 19. 57·37	1859·3	4	3·007	−0·0128	− 0·004	0·05077	0·07677	1·44727	0·06562	89·379	60. 57. 10·43	1859·3	4
980	5*	16 Comæ	12. 19. 59·07	1859·3	4	3·011	−0·0119	+ 0·007	0·05118	0·07680	1·44733	0·06643	89·292	62. 23. 54·79	1859·3	3
981	6	B. F. 1726..........	12. 21. 38·44	1855·3	3	+ 3·008	−0·0114	..	0·05135	0·07662	1·44728	0·06676	89·275	62. 59. 52·37	1855·3	12
982	..	Corvi............. δ¹	12. 22. 36·58	1856·8	2	3·109	+0·0117	..	0·05349	0·07671	1·44885	0·08590	87·694	105. 44. 28·18	1857·3	1
983	2·3*	7 Corvi............ δ²	12. 22. 37·51	1856·2	38	3·109	+0·0117	− 0·007	0·05349	0·07671	1·44885	0·08590	87·694	105. 44. 8·23	1855·9	31
984	5*	4 Draconis	12. 23. (57.)	..	..	2·689	−0·0578	+ 0·001	0·00272	0·07176	1·44231	0·00777	96·673	20. 1. 21·53	1860·3	11
985	5*	8 Corvi .... η	12. 24. 51·49	1859·3	7	3·112	+0·0117	− 0·027	0·05355	0·07647	1·44889	0·08574	87·715	105. 25. 12·31	1859·3	7
986	6*	21 Virginis.......... q	12. 26. 33·34	1858·8	3	+ 3·096	+0·0080	− 0·009	0·05423	0·07635	1·44864	0·08283	87·902	98. 40. 46·05	1858·8	3
987	2·3*	9 Corvi............ β	12. 27. 2·34	1855·6	30	3·138	+0·0163	− 0·008	0·05242	0·07610	1·44929	0·08905	87·550	112. 37. 19·28	1855·6	26
988	4·5*	8 Canum Venaticûm. β	12. 27. 5·28	1858·2	13	2·930	−0·0208	− 0·069	0·04562	0·07533	1·44606	0·05696	90·477	47. 52. 52·14	1858·1	16
989	7	Piazzi XII. 125	12. 27. 12·75	1856·3	5	3·074	+0·0038	− 0·009	0·05454	0·07631	1·44830	0·07945	88·146	90. 38. 7·07	1856·3	5
990	3·4*	5 Draconis .... κ	12. 27. 29·28	1858·2	9	2·619	−0·0556	− 0·012	0·00046	0·07042	1·44120	0·00538	97·119	19. 26. 23·03	1856·9	47
991	5*	23 Comæ	12. 27. 52·36	1859·3	4	+ 3·002	−0·0088	+ 0·013	0·05227	0·07598	1·44719	0·06869	89·137	66. 35. 56·96	1859·3	4
992	9	W. B. XII. 475......	12. 28. 45·46	1856·3	1	3·074	+0·0038	..	0·05456	0·07615	1·44830	0·07945	88·155	90. 38. 31·01	1856·3	1
993	..	......	12. 29. 13·05	1854·2	1	3·017	−0·0057	..	0·05328	0·07594	1·44742	0·07138	88·874	72. 6. 20·18	1854·2	1
994	6*	25 Virginis .... f	12. 29. 34·84	1857·1	11	3·087	+0·0062	0·000	0·05447	0·07606	1·44851	0·08130	88·022	95. 3. 35·32	1857·1	10
995	5*	26 Virginis .... χ	12. 32. 1·39	1858·2	21	3·096	+0·0075	0·000	0·05440	0·07578	1·44864	0·08220	87·974	97. 13. 28·58	1858·2	21
996	6	Piazzi XII. 147	12 32. 9·14	1860·3	5	+ 3·096	+0·0075	+ 0·009	0·05440	0·07577	1·44864	0·08222	87·973	97. 15. 35·83	1860·3	5
997	3·2*	29 Virginis......... γ¹	12. 34. 34·02	1858·0	22	3·074	+0·0042	− 0·037	0·05464	0·07554	1·44831	0·07946	88·190	90. 40. 49·68	1857·4	25
998	3·2*	{29 Virginis (as one mass)........} γ	12. 34. 34·07	1856·1	5	3·074	+0·0042	− 0·037	0·05464	0·07554	1·44831	0·07946	88·190	90. 41.	..	..
999	3·2*	29 Virginis.......... γ²	12. 34. 34·13	1857·7	16	3·074	+0·0042	− 0·037	0·05464	0·07554	1·44831	0·07946	88·190	90. 40. 53·94	1857·2	22
1000	6	28 Virginis..........	12. 34. 43·45	1857·2	10	3·096	+0·0074	+ 0·005	0·05448	0·07550	1·44864	0·08199	88·002	96. 43. 47·54	1857·2	10

Annual Precession in N.P.D. for 1860, from Peters' Elements.	Secular Variation of Precession in N.P.D.	Annual Proper Motion in N.P.D. from Main or B.A.C.	Logarithms of e′	Logarithms of f′	Logarithms of g′	Logarithms of h′	Value of l′	No. in Bessel's Bradley. 1755.	No. in Lalande Fedorenko (F.) 1790, or British Association (B.A.) 1800.	Hour and No. in Piazzi. 1800.	No. in Groombridge. 1810.	Hour and No. in Weisse's Bessel. 1825.	No. in Argelander. 1830.	No. in Pond's 1112. 1830.	No. in First Cambridge Catalogue. 1830.	No. in Johnson's (St. Helena). 1830.	No. in Fallows. 1830.	No. in Struve. 1830.	No.
″	″	″					″			XII.		XII.							
+20·05	−0·020	..	9·89376	0·18690	1·65369	0·06987	68·557	..	...	..	..	..	..	..	..	..	..	..	961
20·04	0·024	..	9·88497	0·06821	1·65365	0·06658	78·369	..	...	..	..	..	..	..	..	..	..	..	962
20·04	0·024	..	0·01022	0·33139	1·65363	0·06566	47·653	..	2036 (F.)	..	1863	..	..	..	..	..	..	..	963
20·04	0·026	+ 0·01	9·88745	0·16736	1·65362	0·06490	70·872	1639	22984 (B.A.)	26	..	..	..	495	..	..	..	..	964
20·04	0·026	+ 0·04	9·92860	0·26980	1·65361	0·06457	59·203	1640	22992 (B.A.)	27	1864	..	..	..	..	..	..	1402	965
+20·04	−0·027	+ 0·03	9·89702	0·20892	1·65360	0·06433	66·793	1641	22995 (B.A.)	28	..	..	..	496	..	..	..	..	966
20·04	0·027	+ 0·18	9·91201	0·24466	1·65360	0·06396	62·656	..	22998 (B.A.)	29	..	..	..	..	..	..	..	..	967
20·04	0·027	..	9·88519	0·06660	1·65359	0·06383	78·659	..	22999 (B.A.)	..	..	136	..	..	..	..	..	..	968
20·03	0·031	+ 0·04	9·88429	0·07908	1·65352	0·06064	78·070	1643	23052 (B.A.)	38	..	167	..	497	383	..	221	..	969
20·03	0·032	+ 0·01	9·89287	0·20500	1·65348	0·05940	67·687	1645	23075 (B.A.)	42	..	..	..	..	..	..	..	..	970
+20·03	−0·031	− 0·02	0·01762	0·33617	1·65347	0·05891	47·087	1650	2049 (F.)	45	1868	..	..	..	..	..	..	..	971
20·03	0·034	+ 0·03	9·88423	0·07992	1·65346	0·05858	78·158	1647	23088 (B.A.)	44	..	191	..	498	384	..	..	..	972
20·02	0·035	+ 0·08	9·88258	0·10428	1·65343	0·05775	76·554	1652	23113 (B.A.)	50	..	207	274	499	385	..	..	..	973
20·02	0·035	− 0·07	9·88632	0·18122	1·65342	0·05711	70·273	1654	23127 (B.A.)	53	..	..	276	500	..	..	..	..	974
20·02	0·008	..	0·05150	0·34197	1·65338	0·05592	44·453	1672	2072 (F.)	..	1884	..	278	..	..	..	..	..	975
+20·01	−0·038	− 0·01	9·89315	0·21669	1·65332	0·05407	66·949	1658	23169 (B.A.)	59	..	..	..	501	..	..	..	1415	976
20·00	0·042	+ 0·03	9·89148	0·21772	1·65321	0·05102	67·139	1661	23211 (B.A.)	70	..	..	..	502	..	..	..	..	977
19·98	0·046	+ 0·02	9·89053	0·22234	1·65306	0·04745	66·989	1665	23267 (B.A.)	81	..	..	..	503	..	..	..	..	978
19·98	0·047	+ 0·11	9·89126	0·22627	1·65302	0·04652	66·641	1666	23279 (B.A.)	84	..	..	279	504	..	..	..	..	979
19·98	0·047	0·00	9·88941	0·22051	1·65301	0·04647	67·284	1667	23281 (B.A.)	85	..	..	..	505	..	..	..	..	980
+19·97	−0·050	..	9·88683	0·21801	1·65290	0·04365	67·831	..	23334 (B.A.)	..	..	..	..	..	..	..	..	..	981
19·96	0·053	..	9·90795	9·96856	1·65281	0·04194	85·036	..	...	..	..	..	..	..	..	..	..	..	982
19·96	0·053	+ 0·15	9·90795	9·96856	1·65281	0·04194	85·036	1675	23359 (B.A.)	101	..	..	..	506	388	281	224	1426	983
19·95	0·050	+ 0·12	9·97932	0·32928	1·65270	0·03969	51·473	1680	2087 (F.)	110	1901	..	..	..	..	..	..	..	984
19·94	0·058	+ 0·07	9·90875	9·97114	1·65262	0·03811	85·125	1681	23431 (B.A.)	115	..	411	280	507	..	284	..	..	985
+19·92	−0·061	0·00	9·89680	0·02120	1·65246	0·03520	83·019	1683	23471 (B.A.)	119	..	437	..	..	..	..	..	..	986
19·92	0·062	+ 0·07	9·92670	9·91282	1·65241	0·03435	87·471	1685	23489 (B.A.)	123	..	..	..	508	390	285	227	..	987
19·92	0·059	− 0·30	9·90255	0·27090	1·65240	0·03427	62·424	1686	23498 (B.A.)	126	1905	..	281	509	..	..	..	..	988
19·92	0·062	+ 0·04	9·88502	0·07520	1·65239	0·03404	80·153	..	23496 (B.A.)	125	..	448	..	..	..	..	..	..	989
19·91	0·054	+ 0·03	9·97442	0·32966	1·65236	0·03357	52·120	1689	2096 (F.)	129	1906	..	..	510	..	..	..	1437	990
+19·91	−0·062	0·00	9·87714	0·20255	1·65232	0·03287	70·449	..	23517 (B.A.)	130	..	...	..	511	..	..	..	..	991
19·90	0·065	..	9·88508	0·07509	1·65223	0·03136	80·343	..	...	..	..	475	..	..	..	..	..	..	992
19·89	0·065	..	9·87390	0·17749	1·65218	0·03055	72·985	..	...	..	..	..	..	..	..	..	..	..	993
19·89	0·067	+ 0·09	9·89165	0·04627	1·65214	0·02990	82·060	1690	23576 (B.A.)	136	..	485	..	..	..	..	..	..	994
19·86	0·071	+ 0·04	9·89597	0·03165	1·65186	0·02558	83·086	1694	23634 (B.A.)	146	..	527	..	512	..	..	..	..	995
+19·86	−0·072	+ 0·15	9·89609	0·03131	1·65185	0·02537	83·116	..	23641 (B.A.)	147	..	528	..	..	..	..	..	..	996
19·83	0·076	+ 0·05	9·88530	0·07489	1·65155	0·02108	81·060	1698	23687 (B.A.)	157	..	..	..	513	394	289	230	..	997
19·83	0·076	+ 0·05	9·88530	0·07489	1·65155	0·02108	81·060	..	...	..	..	568	284	..	..	..	..	1452	998
19·83	0·076	+ 0·05	9·88530	0·07489	1·65155	0·02108	81·060	1699	...	158	..	..	..	514	..	..	..	..	999
19·83	0·077	+ 0·02	9·89586	0·03507	1·65153	0·02082	83·208	1700	23691 (B.A.)	159	..	570	..	..	..	..	..	..	1000

963, 971, 975, 984 and 990. These stars are respectively identical with Schwerd 723, 728, 733, 741 and 744.

979. This star is designated 15 Comæ γ in the B. A. C.

† For No. 975, log. e = − 0·11460, log. f = 0·01835, log. g = 1·39667, log. h = − 0·11431, l = 219s·085.

The magnitudes of Stars taken from Argelander are marked with Asterisks. Other magnitudes are taken in the order of preference from the British Association Catalogue of 8377 Stars; from the Catalogue of Lalande published by the British Association; from Weisse's *Catalogus Stellarum ex Zonis Regiomontanis*; or, for the variable stars, from Mr. Pogson's lists in the "Radcliffe Observations, 1854 and 1856." The authorities for any remaining magnitudes are given in the Notes.

No.	Magnitude.	Star's Name.	Mean Right Ascension, 1860, Jan. 1, from Observations, 1854 to 1860.	Mean Year and Fraction of Year.	Number of Observations.	Annual Precession in R.A. for 1860, from Peters' Elements.	Secular Variation of Precession in R.A.	Annual Proper Motion in R.A. from Main or B.A.C.	Logarithms of c	f	g	h	Value of l	Mean North Polar Distance, 1860, Jan. 1, from Observations, 1854 to 1860.	Mean Year and Fraction of Year.	Number of Observations.
			h m s			s	s	s					s	° ′ ″		
1001	5*	30 Virginis .... ρ	12. 34. 47·87	1859·9	9	+ 3·033	−0·0017	+0·005	0·05418	0·07544	1·44767	0·07451	88·616	78. 59. 31·01	1859·9	9
1002	6*	76 Ursæ Majoris	12. 35. (26.)	..	..	2·659	−0·0392	−0·005	0·02220	0·07078	1·44184	0·02857	94·373	26. 31. 4·77	1859·3	2
1003	6	W. B. XII. 603	12. 36. 26·70	1857·0	6	3·075	+0·0043	..	0·05467	0·07535	1·44832	0·07952	88·196	90. 48. 22·66	1857·0	6
1004	7	W. B. XII. 619	12. 37. 0·25	1854·3	3	3·080	+0·0050	..	0·05467	0·07528	1·44839	0·08004	88·160	92. 4. 28·58	1854·3	3
1005	6*	33 Virginis	12. 39. 15·75	1860·3	4	3·031	−0·0011	+0·022	0·05432	0·07498	1·44763	0·07483	88·621	79. 40. 36·12	1860·3	4
1006	5*	27 Comæ	12. 39. 39·07	1859·0	11	+ 3·000	−0·0046	+0·004	0·05353	0·07481	1·44716	0·07169	88·934	72. 39. 25·55	1859·1	10
1007	6	35 Virginis	12. 40. 43·71	1859·7	14	3·054	+0·0020	−0·001	0·05468	0·07488	1·44800	0·07737	88·402	85. 39. 43·62	1860·0	7
1008	6*	36 Virginis	12. 41. 53·24	1858·3	3	3·007	−0·0032	+0·005	0·05392	0·07462	1·44727	0·07284	88·834	75. 6. 44·85	1858·3	2
1009	6*	11 Canum Venaticûm ...	12. 42. 14·68	1860·4	3	2·788	−0·0234	+0·017	0·04125	0·07236	1·44385	0·05076	91·532	40. 46. 10·43	1860·4	4
1010	6*	30 Comæ	12. 42. (28.)	..	..	2·939	−0·0101	−0·009	0·05137	0·07410	1·44622	0·06621	89·566	61. 41. 4·88	1858·3	2
1011	7	Piazzi XII. 193	12. 42. 52·38	1858·3	3	+ 3·102	+0·0079	−0·017	0·05462	0·07463	1·44874	0·08203	88·043	96. 52. 8·82	1858·3	2
1012	Var.	W. B. XII. 747	12. 43. 59·55	1860·3	1	3·044	+0·0012	..	0·05467	0·07452	1·44784	0·07655	88·494	83. 41. 3·69	1860·3	1
1013	6	37 Virginis	12. 44. 29·30	1858·3	1	3·055	+0·0024	−0·002	0·05478	0·07449	1·44801	0·07760	88·404	86. 10. 50·54	1855·3	1
1014	6	38 Virginis	12. 46. 1·17	1856·5	9	3·085	+0·0059	−0·016	0·05484	0·07434	1·44847	0·08033	88·187	92. 47. 29·67	1856·2	7
1015	5*	35 Comæ	12. 46. 24·06	1856·1	4	2·963	−0·0065	−0·003	0·05291	0·07392	1·44659	0·06952	89·226	67. 59. 35·31	1856·2	6
1016	5*	40 Virginis .... ψ	12. 47. 4·51	1858·4	17	+ 3·114	+0·0091	−0·002	0·05460	0·07417	1·44892	0·08281	88·006	98. 46. 40·23	1858·4	16
1017	3*	43 Virginis .... δ	12. 48. 33·16	1857·1	80	3·052	+0·0025	−0·030	0·05487	0·07406	1·44796	0·07746	88·442	85. 50. 27·26	1856·4	49
1018	7	12 Canum Ven. (1st Star)	12. 49. 27·20	1857·5	9	2·840	−0·0154	−0·021	0·04771	0·07248	1·44466	0·05961	90·471	50. 55. 42·66	1857·2	8
1019	3*	12 Can. Ven. (2d Star) α	12. 49. 28·43	1857·5	14	2·840	−0·0154	−0·023	0·04770	0·07247	1·44466	0·05961	90·473	50. 55. 29·10	1856·6	31
1020	5*	8 Draconis	12. 49. (53.)	..	..	2·417	−0·0330	+0·014	0·01648	0·06608	1·43803	0·02219	95·712	23. 48. 4·89	1855·8	4
1021	..	......	12. 50. 37·66	1854·3	1	+ 3·118	+0·0094	..	0·05467	0·07380	1·44898	0·08285	88·019	98. 52. 58·34	1854·3	1
1022	8	W. B. XII. 880	12. 51. 51·95	1854·3	1	3·120	+0·0095	..	0·05469	0·07367	1·44902	0·08293	88·019	99. 5. 6·17	1854·3	1
1023	5*	36 Comæ	12. 51. 59·95	1859·3	7	2·973	−0·0041	+0·001	0·05371	0·07344	1·44674	0·07140	89·068	71. 50. 6·05	1859·3	7
1024	6*	44 Virginis .... k	12. 52. 26·90	1856·1	5	3·088	+0·0063	+0·002	0·05498	0·07367	1·44852	0·08043	88·213	93. 3. 21·11	1856·0	6
1025	6*	46 Virginis	12. 53. 23·53	1857·1	4	3·086	+0·0062	+0·001	0·05502	0·07357	1·44849	0·08025	88·231	92. 36. 53·22	1857·1	4
1026	5*	37 Comæ	12. 53. 34·28	1859·3	4	+ 2·882	−0·0107	+0·003	0·05073	0·07257	1·44532	0·06453	89·892	58. 27. 32·17	1859·3	4
1027	6*	9 Draconis	12. 54. (37.)	..	..	2·316	−0·0301	−0·018	0·01359	0·06413	1·43641	0·01901	96·329	22. 38. 49·04	1859·3	2
1028	6*	78 Ursæ Majoris	12. 54. 42·72	1860·0	3	2·583	−0·0255	+0·011	0·03370	0·06855	1·44064	0·04131	93·114	32. 52. 41·37	1860·0	3
1029	3·2*	47 Virginis .... ε	12. 55. 12·44	1860·0	10	3·006	−0·0008	−0·018	0·05457	0·07326	1·44725	0·07429	88·788	78. 17. 15·15	1859·8	5
1030	6*	48 Virginis	12. 56. 41·70	1856·2	3	3·081	+0·0065	−0·002	0·05511	0·07322	1·44853	0·08037	88·239	92. 54. 32·10	1856·2	3
1031	..	......	12. 58. 10·53	1854·2	1	+ 3·127	+0·0100	..	0·05484	0·07299	1·44913	0·08301	88·041	99. 21. 46·34	1854·2	1
1032	5*	14 Canum Venaticûm ...	12. 59. 11·39	1859·6	3	2·819	−0·0127	+0·001	0·04912	0·07144	1·44434	0·06154	90·347	53. 27. 4·60	1859·6	3
1033	6*	39 Comæ	12. 59. 31·72	1860·0	3	2·934	−0·0054	−0·001	0·05329	0·07245	1·44613	0·06970	89·325	68. 5. 40·99	1860·0	3
1034	8	Groombridge 1957 ...	12. 59. 48·00	1860·3	3	2·678	−0·0192	..	0·04228	0·06964	1·44214	0·05172	91·720	41. 13. 15·95	1860·3	3
1035	6*	49 Virginis .... g	13. 0. 33·98	1858·3	3	3·134	+0·0104	+0·001	0·05487	0·07274	1·44922	0·08326	88·032	99. 59. 25·90	1858·3	3
1036	6*	B. F. 1805	13. 1. 14·67	1858·0	3	+ 3·123	+0·0095	..	0·05501	0·07270	1·44906	0·08253	88·089	98. 13. 59·24	1858·0	3
1037	5·6*	45 Hydræ .... ψ	13. 1. 31·11	1860·3	2	3·218	+0·0182	+0·004	0·05327	0·07221	1·45052	0·08865	87·694	112. 22. 5·57	1860·3	3
1038	6	50 Virginis	13. 2. 25·79	1858·1	5	3·133	+0·0103	+0·004	0·05495	0·07254	1·44921	0·08309	88·053	99. 34. 52·87	1858·1	5
1039	4·5*	51 Virginis .... θ	13. 2. 42·23	1857·5	29	3·102	+0·0077	−0·004	0·05522	0·07259	1·44874	0·08112	88·205	94. 47. 26·06	1857·0	25
1040	4·5*	42 Comæ	13. 3. 10·69	1856·4	1	2·952	−0·0034	−0·031	0·05402	0·07221	1·44641	0·07144	89·155	71. 43. 44·88	1856·4	1

Annual Precession in N.P.D. for 1860, from Peters' Elements.	Secular Variation of Precession in N.P.D.	Annual Proper Motion in N.P.D. from Main or B.A.C.	Logarithms of c′	f′	g′	h′	Value of l′	No. in Bessel's Bradley. 1755.	No. in Lalande Fedorenko (F.) 1790, or British Association (B.A.) 1800.	Hour and No. in Piazzi. 1800.	No. in Groombridge. 1810.	Hour and No. in Weisse's Bessel. 1825.	No. in Argelander. 1830.	No. in Pond's 1112. 1830.	No. in First Cambridge Catalogue. 1830.	No. in Johnson's (St. Helena). 1830.	No. in Fallows. 1830.	No. in Struve. 1830.	No.
″	″	″					″			XII.		XII.							
+19·83	−0·075	+ 0·09	9·87227	0·14267	1·65152	0·02070	76·638	1701	...	160	..	575	..	515	..	..	..	..	1001
19·82	0·068	+ 0·05	9·93877	0·31893	1·65144	0·01954	56·252	1703	2126 (F.)	163	1917	..	..	..	..	..	..	..	1002
19·80	0·080	..	9·88553	0·07417	1·65130	0·01774	81·331	..	23732 (B.A.)	..	..	603	..	..	..	..	..	..	1003
19·80	0·081	..	9·88767	0·06611	1·65123	0·01673	81·850	..	23744 (B.A.)	170	..	619	..	..	..	..	..	..	1004
19·76	0·084	+ 0·50	9·87075	0·13877	1·65092	0·01263	77·569	1706	23808 (B.A.)	173	..	659	286	..	..	..	..	..	1005
+19·76	−0·084	− 0·01	9·86599	0·17428	1·65086	0·01193	74·889	..	23818 (B.A.)	177	..	..	..	..	..	..	..	..	1006
19·74	0·087	+ 0·01	9·87737	0·10529	1·65070	0·00997	80·022	1708	23854 (B.A.)	184	..	682	..	..	..	..	..	..	1007
19·72	0·088	+ 0·06	9·86564	0·16214	1·65052	0·00786	76·215	1710	23895 (B.A.)	189	..	708	..	..	..	..	..	..	1008
19·72	0·083	+ 0·05	9·89092	0·28882	1·65046	0·00718	62·862	1712	2152 (F.)	191	1929	..	..	..	..	..	..	..	1009
19·71	0·088	− 0·03	9·86368	0·22174	1·65043	0·00680	71·029	1711	23913 (B.A.)	192	..	..	..	..	..	..	..	..	1010
+19·71	−0·093	+ 0·04	9·89840	0·03444	1·65036	0·00603	84·156	..	23922 (B.A.)	193	..	..	..	..	..	..	..	..	1011
19·69	0·093	..	9·87373	0·11660	1·65019	0·00397	79·753	..	...	..	..	747	..	..	..	..	..	..	1012
19·68	0·095	− 0·02	9·87749	0·10220	1·65010	0·00305	80·722	1714	23964 (B.A.)	199	..	754	..	..	..	..	..	..	1013
19·65	0·098	+ 0·03	9·89003	0·06161	1·64985	0·00024	83·185	1718	24005 (B.A.)	208	..	778	287	..	396	..	..	..	1014
19·65	0·095	+ 0·06	9·85878	0·19506	1·64979	9·99953	74·217	1719	24018 (B.A.)	212	..	..	..	516	..	..	..	1470	1015
+19·63	−0·101	+ 0·04	9·90439	0·02141	1·64967	9·99826	85·215	1721	24035 (B.A.)	214	..	..	..	517	..	..	..	..	1016
19·61	0·102	+ 0·09	9·87616	0·10416	1·64941	9·99552	81·154	1723	24078 (B.A.)	223	..	827	288	519	400	..	..	..	1017
19·59	0·097	− 0·04	9·86225	0·25902	1·64925	9·99384	68·248	1724	24111 (B.A.)	..	..	..	..	..	..	..	..	..	1018
19·59	0·097	− 0·06	9·86225	0·25904	1·64924	9·99380	68·249	1725	24112 (B.A.)	226	1935	..	289	522	..	..	..	1477	1019
19·58	0·085	+ 0·06	9·91766	0·32084	1·64917	9·99303	58·882	1727	2172 (F.)	228	1939	..	..	..	..	..	..	..	1020
+19·57	−0·108	..	9·90585	0·02092	1·64902	9·99162	85·635	..	...	..	..	..	..	..	..	..	..	..	1021
19·54	0·111	..	9·90682	0·01960	1·64879	9·98928	85·830	..	...	..	..	880	..	..	..	..	..	..	1022
19·54	0·106	− 0·06	9·85588	0·17718	1·64876	9·98902	76·641	1728	24176 (B.A.)	236	..	..	..	523	..	..	..	..	1023
19·53	0·111	− 0·03	9·89143	0·06001	1·64867	9·98818	84·058	1729	24185 (B.A.)	237	..	889	..	..	401	..	233	1487	1024
19·51	0·112	− 0·07	9·89042	0·06280	1·64849	9·98637	84·041	1732	24206 (B.A.)	241	..	909	..	..	..	..	..	..	1025
+19·51	−0·106	− 0·02	9·85065	0·23275	1·64846	9·98605	71·927	1733	24215 (B.A.)	242	..	..	..	524	..	..	..	..	1026
19·49	0·088	+ 0·02	9·91116	0·32156	1·64825	9·98405	59·720	1737	2193 (F.)	250	1949	..	..	..	..	..	..	..	1027
19·49	0·098	− 0·02	9·88412	0·30449	1·64823	9·98386	62·983	1736	2191 (F.)	248	1948	..	..	..	..	..	..	..	1028
19·48	0·113	− 0·03	9·86136	0·14526	1·64814	9·98293	79·493	1735	24250 (B.A.)	249	..	940	291	525	402	..	..	..	1029
19·45	0·119	+ 0·02	9·89159	0·06094	1·64783	9·98005	84·543	1738	24295 (B.A.)	254	..	968	..	..	403	..	..	..	1030
+19·41	−0·123	..	9·90998	0·01806	1·64751	9·97723	86·600	..	...	..	..	..	..	..	..	..	..	..	1031
19·39	0·113	0·00	9·84466	0·24939	1·64729	9·97526	71·238	1739	24346 (B.A.)	266	..	..	..	526	..	..	..	..	1032
19·38	0·118	+ 0·03	9·84609	0·19325	1·64722	9·97458	76·610	1740	24353 (B.A.)	267	..	..	..	527	..	..	..	..	1033
19·38	0·109	..	9·85733	0·28483	1·64716	9·97406	67·028	..	...	..	1957	..	..	..	..	..	..	..	1034
19·36	0·128	+ 0·02	9·91270	0·01395	1·64699	9·97257	87·034	1742	24375 (B.A.)	272	..	1035	..	528	..	..	..	..	1035
+19·34	−0·129	..	9·90757	0·02607	1·64684	9·97127	86·632	..	24399 (B.A.)	..	..	1050	292	..	..	..	..	..	1036
19·34	0·133	+ 0·06	9·95405	9·92070	1·64677	9·97072	90·107	1744	24405 (B.A.)	276	..	..	..	530	..	296	234	..	1037
19·32	0·131	+ 0·05	9·91217	0·01689	1·64657	9·96892	87·133	1746	24434 (B.A.)	280	..	XIII. 12	..	..	..	..	..	..	1038
19·31	0·131	+ 0·04	9·89768	0·04911	1·64650	9·96840	85·836	1747	24448 (B.A.)	281	..	17	..	531	404	297	..	1502	1039
19·30	0·126	− 0·13	9·84671	0·17656	1·64639	9·96745	78·542	1748	...	XIII. 2	..	..	293	532	..	..	..	1503	1040

1008. In the B. A. C. this star is designated 29 Comæ.
1034. The magnitude has been taken from Groombridge.

1012. This star is the variable U Virginis: it is of the 7·8 magnitude at the maximum.
1040. In the B. A. C. this star is designated 42 Comæ α.

The magnitudes of Stars taken from Argelander are marked with Asterisks. Other magnitudes are taken in the order of preference from the British Association Catalogue of 8377 Stars; from the Catalogue of Lalande published by the British Association; from Weisse's *Catalogus Stellarum ex Zonis Regiomontanis*; or, for the variable stars, from Mr. Pogson's lists in the "Radcliffe Observations, 1854 and 1856." The authorities for any remaining magnitudes are given in the Notes.

No.	Magnitude.	Star's Name.	Mean Right Ascension, 1860, Jan. 1, from Observations, 1854 to 1860.	Mean Year and Fraction of Year.	Number of Observations.	Annual Precession in R.A. for 1860, from Peters' Elements.	Secular Variation of Precession in R.A.	Annual Proper Motion in R.A. from Main or B.A.C.	Logarithms of e	Logarithms of f	Logarithms of g	Logarithms of h	Value of l	Mean North Polar Distance, 1860, Jan. 1, from Observations, 1854 to 1860.	Mean Year and Fraction of Year.	Number of Observations.
			h m s			s	s	s					s	° ′ ″		
1041	..	......	13. 4. 1·95	1854·2	1	+ 3·136	+0·0105	..	0·05498	0·07237	1·44925	0·08316	88·055	99. 46. 6·33	1854·2	1
1042	5*	53 Virginis..........	13. 4. 36·77	1860·0	9	3·175	+0·0138	+ 0·003	0·05445	0·07216	1·44986	0·08554	87·890	105. 26. 32·30	1860·0	9
1043	4*	43 Comæ	13. 5. 20·27	1860·3	4	2·867	−0·0080	− 0·060	0·05198	0·07138	1·44509	0·06638	89·786	61. 24. 39·86	1860·3	4
1044	6	Piazzi XIII. 16	13. 5. 34·76	1858·7	3	2·990	−0·0005	− 0·001	0·05482	0·07216	1·44700	0·07411	88·877	77. 41. 53·94	1858·8	2
1045	5*	Piazzi XIII. 27	13. 7. 21·75	1860·3	3	2·737	−0·0137	− 0·003	0·04751	0·06983	1·44305	0·05871	90·846	49. 6. 16·70	1860·3	3
1046	7	56 Virginis	13. 7. 25·04	1859·6	3	+ 3·138	+0·0105	− 0·005	0·05511	0·07202	1·44929	0·08308	88·073	99. 37. 34·83	1860·3	2
1047	7	Piazzi XIII. 30	13. 8. 26·02	1859·0	3	3·046	+0·0037	+ 0·001	0·05543	0·07201	1·44787	0·07765	88·539	86. 12. 28·72	1859·3	2
1048	7·8	Lalande 24610	13. 8. 48·19	1854·3	2	3·106	+0·0081	..	0·05541	0·07196	1·44880	0·08116	88·229	94. 55. 34·19	1854·3	2
1049	5·4*	Piazzi XIII. 31	13. 9. 7·13	1860·3	3	3·308	+0·0251	+ 0·015	0·05151	0·07076	1·45192	0·09269	87·510	120. 45. 49·01	1860·3	3
1050	5*	59 Virginis.......... *e*	13. 9. 49·62	1858·7	3	3·000	+0·0008	− 0·020	0·05515	0·07176	1·44716	0·07504	88·808	79. 50. 35·34	1858·9	2
1051	6	W. B. XIII. 154	13. 10. 5·81	1860·4	6	+ 3·178	+0·0136	..	0·05471	0·07160	1·44992	0·08522	87·929	104. 48. 21·45	1860·4	6
1052	6	58 Virginis	13. 10. 7·23	1858·5	6	3·142	+0·0108	− 0·003	0·05518	0·07175	1·44935	0·08314	88·077	99. 48. 26·39	1858·5	6
1053	5*	60 Virginis .... σ	13. 10. 32·15	1858·7	3	3·028	+0·0027	+ 0·003	0·05541	0·07176	1·44759	0·07667	88·646	83. 47. 29·93	1858·9	2
1054	5*	61 Virginis	13. 11. 5·17	1860·4	3	+ 3·201	+0·0154	− 0·075	0·05439	0·07139	1·45026	0·08637	87·856	107. 31. 53·36	1860·4	3
1055	7	Groombridge 2006 ...	13. 11. 12·37	1858·2	5	−11·558	+8·6900	..	† ..	..	..	..	..	1. 36. 1·98	1858·2	5
1056	5·4*	20 Canum Venaticûm ...	13. 11. 15·68	1860·3	3	+ 2·713	−0·0133	− 0·013	0·04747	0·06924	1·44268	0·05852	90·930	48. 41. 21·27	1860·3	3
1057	5*	21 Canum Venaticûm ...	13. 12. 16·79	1860·4	3	2·570	−0·0172	0·000	0·04160	0·06727	1·44044	0·05051	92·132	39. 34. 51·37	1860·4	3
1058	7	62 Virginis	13. 12. 59·03	1858·3	3	3·150	+0·0113	− 0·005	0·05523	0·07142	1·44948	0·08343	88·066	100. 34. 2·21	1858·3	2
1059	6	B. F. 1843	13. 14. 28·26	1858·3	3	2·959	−0·0011	..	0·05486	0·07113	1·44652	0·07306	89·054	75. 6. 54·77	1858·3	2
1060	7	Piazzi XIII. 67	13. 15. 15·00	1857·0	4	3·112	+0·0086	+ 0·003	0·05561	0·07129	1·44890	0·08131	88·243	95. 27. 47·79	1857·0	4
1061	6*	65 Virginis	13. 16. 3·80	1857·0	3	+ 3·104	+0·0080	0·000	0·05569	0·07123	1·44877	0·08085	88·284	94. 11. 27·25	1857·0	3
1062	6*	66 Virginis	13. 17. 16·17	1857·3	2	3·106	+0·0082	+ 0·012	0·05572	0·07110	1·44880	0·08094	88·282	94. 25. 52·36	1857·3	2
1063	1*	67 Virginis .... α	13. 17. 49·27	1857·1	223	3·154	+0·0114	− 0·005	0·05541	0·07093	1·44954	0·08336	88·088	100. 25. 45·54	1857·2	160
1064	2*	79 Ursæ Majoris..... ζ¹	13. 18. 16·91	1860·3	1	2·417	−0·0173	+ 0·017	0·03689	0·06462	1·43801	0·04457	93·171	34. 20. 33·14	1860·3	1
1065		Ursæ Majoris..... ζ²	13. 18. 17·76	1860·3	1	2·417	−0·0173	+ 0·014	0·03689	0·06461	1·43801	0·04457	93·172	34. 20. 45·63	1860·3	1
1066	6*	68 Virginis .... *i*	13. 19. 19·62	1859·3	5	+ 3·168	+0·0124	− 0·005	0·05534	0·07073	1·44976	0·08397	88·046	101. 58. 40·84	1859·3	5
1067	5*	80 Ursæ Majoris ..... *g*	13. 19. 36·74	1859·4	1	+ 2·404	−0·0170	+ 0·016	0·03692	0·06435	1·43782	0·04456	93·203	34. 16. 54·32	1859·4	1
1068	6	Groombridge 2007...	13. 20. 25·11	1860·4	1	− 2·750	+ 1·0002	..	9·60684	9·95847	1·34732	9·60946	140·298	4. 30. 48·28	1860·4	1
1069	5*	70 Virginis	13. 21. 35·10	1860·4	2	+ 2·951	−0·0005	− 0·014	0·05517	0·07041	1·44640	0·07328	89·078	75. 28. 20·97	1860·4	3
1070	Var.	......	13. 22. 4·17	1860·4	1	3·267	+0·0192	+ 0·002	0·05400	0·06993	1·45127	0·08847	87·753	112. 33. 24·64	1860·4	1
1071	6*	Groombridge 2001 ..	13. 22. (34.)	..	..	+ 1·519	+0·0075	+ 0·004	9·99352	0·04886	1·42355	9·99757	100·710	16. 52. 51·43	1859·3	2
1072	7	W.B. XIII. 364	13. 22. 55·19	1854·3	2	3·016	−0·0030	..	0·05584	0·07049	1·44741	0·07651	88·729	83. 15. 50·73	1854·3	2
1073	7	72 Virginis .... *l*¹	13. 23. 7·69	1856·3	3	3·120	+0·0091	+ 0·007	0·05590	0·07049	1·44901	0·08145	88·260	95. 44. 46·58	1856·3	3
1074	6*	73 Virginis	13. 24. 30·17	1857·6	7	3·229	+0·0162	− 0·004	0·05485	0·06994	1·45069	0·08644	87·887	108. 0. 20·67	1857·4	6
1075	7	Piazzi XIII. 114 ...	13. 24. 35·12	1854·4	2	3·086	+0·0071	− 0·047	0·05607	0·07038	1·44848	0·07982	88·411	91. 36. 19·71	1854·4	2
1076	5*	74 Virginis .... *l*²	13. 24. 41·38	1856·2	5	+ 3·119	+0·0090	− 0·006	0·05597	0·07034	1·44900	0·08136	88·272	95. 31. 53·85	1856·2	5
1077	6	Piazzi XIII. 112	13. 24. 45·62	1858·7	7	3·338	+0·0242	− 0·007	0·05270	0·06911	1·45237	0·09139	87·602	118. 50. 35·90	1858·7	7
1078	6*	75 Virginis	13. 25. 23·10	1857·9	7	3·199	+0·0141	− 0·001	0·05531	0·07000	1·45024	0·08591	87·988	104. 38. 28·99	1857·9	7
1079	5*	76 Virginis ....*h*	13. 25. 35·79	1858·5	7	3·153	+0·0112	− 0·004	0·05579	0·07016	1·44953	0·08290	88·148	99. 26. 32·10	1858·6	7
1080	Var.	......	13. 25. 41·54	1860·4	2	3·127	+0·0096	..	0·05597	0·07021	1·44913	0·08173	88·244	96. 28. 25·53	1860·4	2

No.	Annual Precession in N.P.D. for 1860, from Peters' Elements.	Secular Variation of Precession in N.P.D.	Annual Proper Motion in N.P.D. from Main or B.A.C.	Logarithms of e′	Logarithms of f′	Logarithms of g′	Logarithms of h′	Value of l′	No. in Bessel's Bradley. 1755.	No. in Lalande Fedorenko (F.) 1790, or British Association (B.A.) 1800.	Hour and No. in Piazzi. 1800.	No. in Groombridge. 1810.	Hour and No. in Weisse's Bessel. 1825.	No. in Argelander. 1830.	No. in Pond's 1112. 1830.	No. in First Cambridge Catalogue. 1830.	No. in Johnson's (St. Helena). 1830.	No. in Fallows. 1830.	No. in Struve. 1830.	No.
	″	″	″					″			XIII.		XIII.							
1041	+19·28	−0·134	..	9·91339	0·01576	1·64618	9·96577	87·359	..	...	..	..	..	..	..	..	..	..	..	1041
1042	19·26	0·137	+ 0·30	9·93237	9·97503	1·64605	9·96463	88·840	1752	24500 (B.A.)	9	..	48	297	533	..	298	..	..	1042
1043	19·25	0·126	− 0·89	9·83537	0·21988	1·64588	9·96321	75·344	1755	24522 (B.A.)	15	..	..	298	..	..	..	..	..	1043
1044	19·24	0·131	+ 0·04	9·85485	0·14748	1·64582	9·96271	80·962	..	24528 (B.A.)	16	..	..	..	..	..	..	..	..	1044
1045	19·20	0·124	+ 0·06	9·83404	0·26166	1·64538	9·95921	71·479	..	24587 (B.A.)	27	1968	..	..	..	..	..	..	..	1045
1046	+19·19	−0·141	+ 0·05	9·91418	0·01697	1·64537	9·95907	87·702	1757	24575 (B.A.)	23	..	101	..	..	..	..	..	..	1046
1047	19·17	0·139	+ 0·10	9·87361	0·10153	1·64516	9·95705	84·074	..	24604 (B.A.)	30	..	119	..	..	..	..	..	..	1047
1048	19·16	0·142	..	9·89933	0·04839	1·64502	9·95630	86·627	..	24610 (B.A.)	..	..	..	..	..	..	..	..	..	1048
1049	19·15	0·152	0·00	9·99078	9·85221	1·64494	9·95568	92·180	..	...	31	..	..	..	..	..	..	..	..	1049
1050	19·13	0·140	− 0·16	9·85733	0·13612	1·64475	9·95423	82·340	1760	24646 (B.A.)	37	..	149	300	..	..	..	..	..	1050
1051	+19·13	−0·148	..	9·93313	9·98065	1·64468	9·95370	89·235	..	24653 (B.A.)	..	..	154	..	..	..	..	..	..	1051
1052	19·13	0·146	+ 0·04	9·91582	0·01595	1·64468	9·95366	88·051	1761	24655 (B.A.)	38	..	155	..	..	..	..	..	..	1052
1053	19·11	0·142	− 0·06	9·86676	0·11502	1·64457	9·95282	83·662	1762	24666 (B.A.)	42	..	162	..	..	..	..	..	..	1053
1054	19·10	−0·151	+ 1·04	9·94354	9·96053	1·64442	9·95172	89·931	1763	24680 (B.A.)	44	..	..	301	534	..	299	..	..	1054
1055	19·10	+0·507	..	9·94562	0·33279	1·64440	9·95149	58·875	..	2304 (F.)	..	2006	..	..	..	..	..	..	..	1055
1056	+ 19·09	−0·129	− 0·03	9·82743	0·26211	1·64438	9·95139	72·217	1765	24693 (B.A.)	48	1975	..	..	536	..	..	..	..	1056
1057	19·07	0·125	+ 0·03	9·83531	0·28615	1·64412	9·94930	69·448	1767	2235 (F.)	54	1976	..	..	537	..	..	..	..	1057
1058	19·05	0·152	+ 0·05	9·91950	0·01108	1·64393	9·94788	88·553	1766	24730 (B.A.)	55	..	204	..	..	..	..	..	..	1058
1059	19·01	0·146	..	9·84423	0·15939	1·64352	9·94489	81·621	..	24770 (B.A.)	..	..	228	..	..	..	..	..	..	1059
1060	18·98	0·155	+ 0·32	9·90238	0·44525	1·64330	9·94326	87·568	..	24785 (B.A.)	67	..	241	..	..	..	..	..	..	1060
1061	+18·96	−0·156	+ 0·02	9·89818	0·05347	1·64308	9·94159	87·341	1772	24804 (B.A.)	70	..	..	..	..	..	..	..	..	1061
1062	18·93	0·158	+ 0·02	9·89927	0·05194	1·64272	9·93913	87·557	1773	...	73	..	270	..	..	..	..	..	..	1062
1063	18·91	0·161	+ 0·04	9·92091	0·01252	1·64257	9·93800	89·064	1774	24845 (B.A.)	75	..	277	302	539	406	302	237	1520	1063
1064	18·90	0·126	+ 0·04	9·83161	0·29621	1·64244	9·93703	69·284	1776	{ 2246 (F.) 24868 (B.A.) }	78	1987	..	303	540	407	..	..	1522	1064
1065	18·90	0·126	+ 0·05	9·83161	0·29620	1·64243	9·93699	69·288	1777	2249 (F.)	79	1988	..	..	..	408	..	..	..	1065
1066	+18·87	−0·165	+ 0·04	9·92732	0·00204	1·64213	9·93486	89·577	1775	24875 (B.A.)	80	..	..	304	541	..	303	..	..	1066
1067	18·86	−0·128	+ 0·03	9·82892	0·29599	1·64205	9·93431	69·596	1779	2256 (F.)	85	1990	..	..	542	409	..	..	..	1067
1068	18·83	+0·130	..	9·91551	0·32964	1·64181	9·93261	62·007	..	2284 (F.)	..	2007	..	..	..	..	..	..	..	1068
1069	18·80	−0·158	+ 0·58	9·84036	0·15691	1·64145	9·93019	82·965	1780	24926 (B.A.)	90	..	335	305	..	..	..	..	..	1069
1070	18·78	0·175	− 0·01	9·97016	9·92471	1·64131	9·92917	91·861	..	24936 (B.A.)	94	..	..	..	..	..	..	..	..	1070
1071	+18·77	−0·064	+ 0·03	9·86729	0·32128	1·64116	9·92813	65·486	..	2274 (F.)	109	2001	..	..	..	..	..	..	..	1071
1072	18·76	0·164	..	9·86189	0·11718	1·64105	9·92739	85·407	..	24967 (B.A.)	..	..	364	..	..	..	..	..	..	1072
1073	18·75	0·170	− 0·02	9·90515	0·04389	1·64098	9·92694	88·617	1782	24975 (B.A.)	101	..	368	..	..	..	..	..	1526	1073
1074	18·71	0·178	0·00	9·95361	9·95987	1·64056	9·92407	91·300	1783	25004 (B.A.)	111	..	..	..	..	..	..	..	..	1074
1075	18·71	0·170	− 0·22	9·89003	0·06966	1·64053	9·92386	87·817	..	25012 (B.A.)	114	..	..	..	..	..	..	..	..	1075
1076	+18·70	−0·172	+ 0·04	9·90466	0·04536	1·64051	9·92368	88·761	1784	25014 (B.A.)	115	..	398	..	543	..	..	..	..	1076
1077	18·70	0·184	+ 0·03	9·99752	9·87512	1·64048	9·92354	92·985	..	25010 (B.A.)	112	..	..	..	..	..	..	..	..	1077
1078	18·68	0·178	+ 0·10	9·94057	9·98440	1·64028	9·92221	90·763	1785	25030 (B.A.)	117	..	..	..	..	..	..	..	..	1078
1079	18·67	0·176	+ 0·03	9·92007	0·02001	1·64022	9·92175	89·737	1786	25037 (B.A.)	118	..	416	..	..	..	..	..	..	1079
1080	18·67	0·175	..	9·90843	0·03948	1·64018	9·92154	89·102	..	25039 (B.A.)	..	..	420	..	..	..	..	..	..	1080

1043. In the B. A. C. this star is designated 43 Comæ β.
1049. This star is identical with Lacaille 5466.
1055. This star is identical with Schwerd 785.
1068. This star is identical with Schwerd 788. The magnitude has been taken from Groombridge.
1070. This star is the variable R Hydræ; the limits of magnitude are 4 and under 10; the period 495 days.
1077. This star is identical with Lacaille 5578.
1080. This star is the variable S Virginis; the limits of magnitude are 5·6 and 11; the period 380·11 days.
† For No. 1055, log. e = − 0·03058, log. f = 9·67232, log. g = 1·12847, log. h = − 0·03022, l = 235^s·739.

The magnitudes of Stars taken from Argelander are marked with Asterisks. Other magnitudes are taken in the order of preference from the British Association Catalogue of 8377 Stars; from the Catalogue of Lalande published by the British Association; from Weisse's *Catalogus Stellarum ex Zonis Regiomontanis*; or, for the variable stars, from Mr. Pogson's lists in the "Radcliffe Observations for 1854 and 1856." The authorities for any remaining magnitudes are given in the Notes.

No.	Magnitude.	Star's Name.	Mean Right Ascension, 1860, Jan. 1, from Observations, 1854 to 1860.	Mean Year and Fraction of Year.	Number of Observations.	Annual Precession in R.A. for 1860, from Peters' Elements.	Secular Variation of Precession in R.A.	Annual Proper Motion in R.A. from Main or B.A.C.	Logarithms of e	f	g	h	Value of l	Mean North Polar Distance, 1860, Jan. 1, from Observations, 1854 to 1860.	Mean Year and Fraction of Year.	Number of Observations.
			h m s			s	s	s					s	° ′ ″		
1081	6	Piazzi XIII. 133	13. 25. (49.)	...	..	+ 0·467	+0·1105	− 0·029	9·93638	0·02851	1·40598	9·93927	109·413	10. 37. 57·19	1855·3	2
1082	6	Piazzi XIII. 126	13. 27. 14·14	1856·7	7	3·182	+0·0129	+ 0·002	0·05561	0·06990	1·44997	0·08412	88·058	102. 29. 41·52	1856·7	7
1083	3·4*	79 Virginis.......... ζ	13. 27. 33·70	1856·8	60	3·071	+0·0063	− 0·019	0·05619	0·07009	1·44826	0·07913	88·487	89. 52. 43·57	1856·8	42
1084	6*	80 Virginis	13. 28. 14·46	1855·5	6	3·113	+0·0087	+ 0·003	0·05614	0·06999	1·44891	0·08101	88·315	94. 40. 53·08	1855·5	6
1085	5*	Piazzi XIII. 136	13. 28. 32·66	1855·4	2	2·680	−0·0094	+ 0·011	0·04990	0·06750	1·44216	0·06142	90·739	52. 5. 57·72	1856·5	5
1086	5*	24 Canum Venaticûm...	13. 28. 43·75	1859·4	3	+ 2·476	−0·0133	− 0·015	0·04317	0·06486	1·43896	0·05197	92·210	40. 16. 1·89	1859·4	3
1087	7	81 Virginis (1st Star)...	13. 30. 15·32	1856·3	4	3·136	+0·0101	+ 0·003	0·05612	0·06975	1·44927	0·08197	88·238	97. 9. 24·06	1856·3	3
1088	7	81 Virginis (2d Star)...	13. 30. 15·50	1856·4	2	3·136	+0·0101	..	0·05612	0·06975	1·44927	0·08197	88·238	97. 9. 21·23	1856·4	2
1089	7	Piazzi XIII. 145	13. 30. 32·84	1858·3	4	3·095	+0·0077	− 0·001	0·05629	0·06979	1·44862	0·08016	88·401	92. 31. 13·05	1858·3	2
1090	6	Piazzi XIII. 146	13. 30. 50·60	1858·6	10	3·356	+0·0244	− 0·011	0·05300	0·06842	1·45265	0·09126	87·616	118. 50. 38·93	1858·6	10
1091	7	Piazzi XIII. 152	13. 31. 51·73	1859·1	4	+ 3·177	+0·0124	+ 0·015	0·05591	0·06947	1·44989	0·08363	88·107	101. 22. 38·21	1859·4	3
1092	8·9	Groombridge 2023 ...	13. 32. 2·82	1860·4	3	2·476	−0·0124	..	0·04411	0·06463	1·43895	0·05308	92·095	41. 14. 15·46	1860·4	3
1093	6	W.B. XIII. 557	13. 32. 40·41	1854·3	2	2·965	+0·0015	..	0·05593	0·06939	1·44662	0·07467	88·985	78. 32. 29·20	1854·3	3
1094	7	Piazzi XIII. 158	13. 33. 32·47	1858·3	4	3·186	+0·0129	+ 0·003	0·05592	0·06927	1·45003	0·08389	88·092	102. 4. 19·06	1858·3	2
1095	6*	1 Boötis	13. 33. (59.)	..	..	2·871	−0·0023	− 0·005	0·05487	0·06878	1·44515	0·07075	89·475	69. 20. 5·50	1859·3	2
1096	6*	82 Virginis.......... m	13. 34. 16·03	1859·7	10	+ 3·147	+0·0107	− 0·010	0·05625	0·06933	1·44943	0·08228	88·225	97. 59. 42·04	1859·9	6
1097	6·3*	83 Ursæ Majoris	13. 35. 25·45	1859·3	4	2·288	−0·0124	0·000	0·03849	0·06165	1·43598	0·04597	93·333	34. 36. 31·22	1859·3	6
1098	6*	84 Virginis.......... o	13. 36. 1·56	1859·0	6	3·032	+0·0048	− 0·023	0·05650	0·06923	1·44765	0·07754	88·682	85. 45. 7·83	1859·4	4
1099	6*	83 Virginis	13. 36. 56·95	1856·9	9	3·224	+0·0150	+ 0·004	0·05573	0·06878	1·45062	0·08523	87·997	105. 28. 24·23	1856·8	10
1100	6	B. F. 1883..........	13. 37. (8.)	..	..	2·834	−0·0031	..	0·05453	0·06823	1·44458	0·06956	89·658	66. 35. 32·43	1856·4	2
1101	7	Piazzi XIII. 179	13. 37. 36·76	1858·3	4	+ 3·139	+0·0102	+ 0·001	0·05646	0·06903	1·44931	0·08184	88·271	96. 55. 47·32	1858·3	2
1102	4·5*	1 Centauri.......... i	13. 37. 44·58	1857·4	16	3·422	+0·0278	− 0·038	0·05237	0·06721	1·45366	0·09287	87·544	122. 20. 3·02	1857·4	16
1103	6	85 Virginis	13. 38. 3·07	1857·5	7	3·221	+0·0148	0·000	0·05583	0·06869	1·45058	0·08505	88·012	105. 3. 45·51	1857·5	7
1104	6*	86 Virginis	13. 38. 28·99	1860·4	7	3·188	+0·0128	− 0·004	0·05618	0·06879	1·45006	0·08371	88·118	101. 43. 24·82	1860·4	6
1105	6	87 Virginis	13. 39. 48·77	1859·0	8	3·246	+0·0161	+ 0·005	0·05566	0·06840	1·45096	0·08589	87·956	107. 9. 26·13	1859·2	6
1106	7	Piazzi XIII. 192	13. 40. 6·77	1854·3	2	+ 3·132	+0·0098	+ 0·006	0·05662	0·06880	1·44919	0·08148	88·312	96. 0. 14·04	1854·3	2
1107	5·4*	4 Boötis .... τ	13. 40. 36·56	1856·7	36	2·886	−0·0008	− 0·034	0·05557	0·06825	1·44538	0·07196	89·365	71. 50. 38·54	1856·2	46
1108	5*	2 Centauri.......... g	13. 41. 20·80	1859·4	3	3·454	+0·0293	− 0·002	0·05213	0·06659	1·45415	0·09352	87·517	123. 44. 59·64	1859·4	3
1109	2*	85 Ursæ Majoris ..... η	13. 42. 1·27	1857·8	52	2·386	−0·0105	− 0·012	0·04390	0·06271	1·43752	0·05240	92·389	39. 59. 12·81	1857·8	53
1110	8	W. B. XIII. 720	13. 42. 4·81	1854·3	1	2·962	+0·0022	..	0·05643	0·06847	1·44657	0·07502	88·994	79. 13. 38·22	1854·3	1
1111	6	Groombridge 2053...	13. 42. (6.)	..	..	+ 0·172	+0·1288	− 0·013	9·94997	0·02223	1·40091	9·95285	108·773	11. 14. 3·77	1860·4	2
1112	5*	89 Virginis	13. 42. 16·30	1859·5	7	3·253	+0·0163	− 0·009	0·05575	0·06813	1·45107	0·08596	87·954	107. 26. 7·20	1859·5	7
1113	6	B. F. 1901..........	13. 43. 25·32	1854·3	2	2·868	−0·0011	..	0·05554	0·06789	1·44510	0·07150	89·444	70. 40. 24·61	1854·3	2
1114	4·5*	3 Centauri......... k^1	13. 43. 45·42	1857·4	13	3·442	+0·0279	− 0·002	0·05272	0·06652	1·45396	0·09269	87·557	122. 17. 51·39	1857·4	13
1115	8·9	Centauri......... k^2	13. 43. 46·17	1856·4	2	3·442	+0·0279	..	0·05272	0·06652	1·45396	0·09269	87·557	122. 17. 54·71	1856·4	2
1116	4·5*	4 Centauri.......... h	13. 45. 9·63	1859·4	3	+ 3·431	+0·0269	− 0·002	0·05312	0·06650	1·45380	0·09211	87·585	121. 14. 3·67	1859·4	3
1117	7·8	Piazzi XIII. 221	13. 45. 48·90	1860·3	4	+ 2·885	−0·0002	+ 0·012	0·05593	0·06777	1·44537	0·07235	89·348	72. 34. 38·50	1860·3	4
1118	6*	Piazzi XIII. 228	13. 46 (29.)	..	..	− 2·150	+0·5672	− 0·023	9·83091	9·97226	1·35890	9·83287	125·174	6. 32. 44·90	1856·4	2
1119	5*	10 Draconis.......... i	13. 47. 20·61	1857·6	3	+ 1·753	−0·0005	+ 0·002	0·02408	0·05218	1·42737	0·02937	96·531	24. 35. 3·38	1857·6	17
1120	6·5*	90 Virginis.......... p	13. 47. 31·03	1854·4	2	3·080	+0·0075	− 0·001	0·05711	0·06813	1·44840	0·07949	88·524	90. 48. 44·73	1854·4	2

1081. This star is identical with Schwerd 790.
1092. The magnitude has been taken from Groombridge.
1108, 1114, and 1116. These stars are respectively identical with Lacaille 5688, 5708, and 5725.
1111 and 1118. These stars are respectively identical with Schwerd 804 and 809.
1090. This star is identical with Lacaille 5623.
1102. This star is identical with Lacaille 5668.
1115. The magnitude has been taken from Piazzi.

Annual Precession in N.P.D. for 1860, from Peters' Elements.	Secular Variation of Precession in N.P.D.	Annual Proper Motion in N.P.D. from Main or B.A.C.	Logarithms of e′	f′	g′	h′	Value of l′	No. in Bessel's Bradley. 1755.	No. in Lalande Fedorenko (F.) 1790, or British Association (B.A.) 1800.	Hour and No. in Piazzi. 1800.	No. in Groombridge. 1810.	Hour and No. in Weisse's Bessel. 1825.	No. in Argelander. 1830.	No. in Pond's 1112. 1830.	No. in First Cambridge Catalogue. 1830.	No. in Johnson's (St. Helena). 1830.	No. in Fallows. 1830.	No. in Struve. 1830.	No.
″	″	″					″			XIII.		XIII.							
+ 18·67	−0·033	− 0·02	9·88104	0·32526	1·64014	9·92129	64·866	..	2287 (F.)	133	2012	..	..	..	..	..	..	..	1081
18·62	0·180	+ 0·06	9·93288	9·99958	1·63970	9·91828	90·546	..	25086 (B.A.)	126	..	..	..	..	..	..	..	..	1082
18·61	0·175	− 0·06	9·88383	0·07987	1·63959	9·91758	87·808	1789	25101 (B.A.)	128	..	457	307	544	410	..	..	..	1083
18·59	0·179	− 0·05	9·90211	0·05090	1·63937	9·91656	89·019	1790	25119 (B.A.)	130	..	471	..	..	..	..	..	..	1084
18·58	0·155	+ 0·09	9·79664	0·24772	1·63926	9·91549	77·251	..	25139 (B.A.)	136	2014	..	..	..	..	..	..	..	1085
+ 18·57	−0·144	0·00	9·80030	0·28026	1·63920	9·91510	73·704	1791	2290 (F.)	138	2015	..	308	..	..	..	..	..	1086
18·52	0·184	+ 0·14	9·91233	0·03545	1·63869	9·91185	89·812	1793	25163 (B.A.)	142	..	504	..	..	..	..	..	1540	1087
18·52	0·184	..	9·91233	0·03545	1·63869	9·91185	89·812	..	25164 (B.A.)	..	..	504	..	..	..	..	..	1540	1088
18·51	0·182	+ 0·08	9·89398	0·06426	1·63860	9·91121	88·838	..	...	145	..	512	..	..	..	..	..	..	1089
18·50	0·197	+ 0·02	0·00268	9·87789	1·63850	9·91056	93·424	..	...	146	..	..	..	..	..	..	..	..	1090
+ 18·47	−0·189	0·00	9·93024	0·00787	1·63815	9·90838	90·849	..	25201 (B.A.)	152	..	541	..	..	..	..	..	.	1091
18·46	0·149	..	9·79239	0·27696	1·63809	9·90798	74·818	..	...	..	2023	..	..	..	..	..	..	..	1092
18·44	0·178	..	9·84298	0·14067	1·63787	9·90662	85·734	..	25224 (B.A.)	..	..	557	..	..	..	..	..	..	1093
18·41	0·192	0·00	9·93384	0·00352	1·63757	9·90474	91·164	..	25238 (B.A.)	158	..	568	..	..	..	..	..	..	1094
18·39	0·175	− 0·02	9·81511	0·18289	1·63742	9·90380	83·471	1797	25256 (B.A.)	160	..	..	..	..	..	..	..	1548	1095
+ 18·38	−0·191	0·00	9·91693	0·03037	1·63732	9·90319	90·476	1796	25258 (B.A.)	162	..	580	..	545	411	..	..	..	1096
18·34	0·143	+ 0·01	9·79281	0·29063	1·63691	9·90065	73·770	1802	...	170	2031	..	..	..	..	..	..	..	1097
18·32	0·188	+ 0·06	9·86753	0·10302	1·63670	9·89935	88·065	1800	25297 (B.A.)	169	..	..	309	..	..	..	..	1551	1098
18·29	0·201	+ 0·06	9·95002	9·98084	1·63636	9·89734	92·115	1801	...	176	..	..	..	..	..	..	..	..	1099
18·28	0·178	..	9·80516	0·19368	1·63630	9·89693	83·332	..	...	..	..	..	310	..	..	..	..	..	1100
+ 18·27	−0·197	+ 0·10	9·91334	0·03746	1·63613	9·89592	90·680	..	...	179	..	643	..	..	413	..	..	..	1101
18·26	0·214	+ 0·22	0·02309	9·85313	1·63608	9·89558	94·240	1803	...	178	..	..	..	546	..	306	..	..	1102
18·25	0·203	+ 0·11	9·94885	9·98384	1·63597	9·89493	92·164	1804	...	181	..	649	..	..	..	..	..	..	1103
18·23	0·202	− 0·01	9·93435	0·00663	1·63581	9·89397	91·659	1805	...	186	..	657	..	..	..	..	..	1556	1104
18·18	0·208	+ 0·07	9·95895	9·96972	1·63531	9·89104	92·667	1806	25391 (B.A.)	191	..	..	..	..	..	..	..	..	1105
+ 18·17	−0·201	+ 0·05	9·90988	0·04348	1·63520	9·89038	90·824	..	25403 (B.A.)	192	..	678	..	..	..	..	..	..	1106
18·15	0·187	− 0·05	9·81644	0·17084	1·63501	9·88926	85·412	1810	25426 (B.A.)	199	..	..	311	547	..	..	..	..	1107
18·13	0·223	+ 0·17	0·03222	9·84377	1·63474	9·88764	94·576	1807	...	202	..	..	..	548	..	309	..	..	1108
18·10	0·158	+ 0·03	9·77181	0·27682	1·63449	9·88616	76·972	1815	2342 (F.)	209	2050	..	312	549	415	..	..	1561	1109
18·10	0·194	..	9·84086	0·13627	1·63446	9·88601	87·509	..	25459 (B.A.)	..	..	720	..	..	..	..	..	..	1110
+ 18·10	−0·019	− 0·07	9·84061	0·31913	1·63446	9·88598	69·607	..	2349 (F.)	..	2053	..	..	551	..	..	..	..	1111
18·09	0·213	+ 0·03	9·96156	9·96836	1·63440	9·88561	92·952	1811	25455 (B.A.)	204	..	..	..	..	..	..	..	..	1112
18·05	0·190	..	9·81030	0·17549	1·63395	9·88305	85·644	..	25490 (B.A.)	..	..	..	..	..	..	..	..	..	1113
18·04	0·227	+ 0·10	0·02812	9·85702	1·63382	9·88230	94·633	1814	...	216	..	..	..	552	..	310	..	..	1114
18·04	0·227	..	0·02812	9·85702	1·63382	9·88230	94·633	..	...	217	..	..	..	..	..	..	..	..	1115
+ 17·98	−0·229	+ 0·06	0·02477	9·86636	1·63328	9·87913	94·651	1817	...	221	..	..	..	553	..	311	..	..	1116
17·96	−0·195	− 0·25	9·81471	0·16672	1·63302	9·87767	86·573	..	25540 (B.A.)	228	..	..	..	..	..	..	..	..	1117
17·93	+0·133	+ 0·09	9·84837	0·31977	1·63276	9·87617	69·848	..	2372 (F.)	263	2063	..	..	..	..	..	..	..	1118
17·90	−0·123	+ 0·04	9·78462	0·30349	1·63241	9·87421	74·304	1823	2357 (F.)	243	2059	..	..	554	..	..	..	..	1119
17·89	0·211	+ 0·03	9·88790	0·07456	1·63234	9·87384	90·842	1819	25583 (B.A.)	237	..	803	..	..	..	..	..	..	1120

The magnitudes of Stars taken from Argelander are marked with Asterisks. Other magnitudes are taken in the order of preference from the British Association Catalogue of 8377 Stars; from the Catalogue of Lalande published by the British Association; from Weisse's *Catalogus Stellarum ex Zonis Regiomontanis*; or, for the variable stars, from Mr. Pogson's lists in the "Radcliffe Observations, 1854 and 1856." The authorities for any remaining magnitudes are given in the Notes.

No.	Magnitude.	Star's Name.	Mean Right Ascension, 1860, Jan. 1, from Observations, 1854 to 1860.	Mean Year and Fraction of Year.	Number of Observations.	Annual Precession in R.A. for 1860, from Peters' Elements.	Secular Variation of Precession in R.A.	Annual Proper Motion in R.A. from Main or B.A.C.	Logarithms of e	f	g	h	Value of l	Mean North Polar Distance, 1860, Jan. 1, from Observations, 1854 to 1860.	Mean Year and Fraction of Year.	Number of Observations.
			h m s			s	s	s					s	° ′ ″		
1121	3*	8 Boötis .... η	13. 48. 1·13	1856·8	57	+ 2·862	− 0·0007	− 0·004	0·05581	0·06743	1·44501	0·07168	89·453	70. 53. 56·41	1856·5	61
1122	5*	9 Boötis	13. 50. 10·62	1859·4	4	+ 2·741	− 0·0038	+ 0·006	0·05421	0·06634	1·44312	0·06756	90·053	61. 49. 12·07	1859·4	4
1123	6	Groombridge 2066...	13. 50. (33.)	..	..	− 0·336	+ 0·1858	..	9·93962	0·01171	1·39206	9·94223	111·080	10. 18. 48·25	1857·4	2
1124	4·5	93 Virginis.......... τ	13. 54. 31·42	1857·0	50	+ 3·047	+ 0·0064	+ 0·001	0·05745	0·06746	1·44789	0·07836	88·663	87. 46. 34·91	1856·6	23
1125	4·3*	49 Hydræ........... π	13. 58. 24·46	1854·3	3	3·394	+ 0·0227	+ 0·007	0·05519	0·06571	1·45323	0·08929	87·749	116. 0. 24·50	1854·3	2
1126	3*	5 Centauri .... θ	13. 58. 27·34	1858·4	6	+ 3·546	+ 0·0317	− 0·051	0·05256	0·06425	1·45555	0·09399	87·502	125. 40. 46·31	1858·4	6
1127	6	Piazzi XIII. 299	13. 58. (46.)	..	..	1·313	+ 0·0182	+ 0·019	0·01527	0·04390	1·42018	0·01966	98·712	20. 38. 48·12	1858·3	2
1128	6*	95 Virginis	13. 59. 18·75	1854·4	5	3·173	+ 0·0117	− 0·010	0·05747	0·06687	1·44983	0·08235	88·274	98. 38. 37·90	1854·4	5
1129	7	Piazzi XIII. 300	13. 59. 36·76	1860·4	3	3·258	+ 0·0155	− 0·005	0·05691	0·06646	1·45114	0·08495	88·056	105. 31. 14·40	1860·4	3
1130	3·4*	11 Draconis .... α	14. 0. 35·99	1860·4	2	1·629	+ 0·0048	− 0·010	0·02667	0·04946	1·42535	0·03186	96·544	24. 57. 14·61	1860·4	7
1131	5·6	Piazzi XIII. 317	14. 3. 12·03	1857·4	17	+ 3·264	+ 0·0156	− 0·005	0·05711	0·06616	1·45123	0·08495	88·056	105. 38. 19·67	1857·4	17
1132	..	......	14. 3. 47·09	1860·4	1	3·104	+ 0·0088	..	0·05796	0·06658	1·44877	0·08014	88·498	92. 40. 4·35	1860·4	1
1133	6	W. B. XIV. 51......	14. 4. 25·06	1859·2	6	+ 3·048	+ 0·0068	..	0·05800	0·06653	1·44790	0·07845	88·682	87. 58. 39·06	1859·2	6
1134	7	Groombridge 2099...	14. 4. 25·42	1860·3	1	− 7·993	+ 2·5543	..	9·45298	9·81105	1·23064	9·45572	159·178	3. 34. 18·40	1860·3	1
1135	5·4*	Piazzi XIV. 12	14. 5. 10·73	1854·4	14	+ 3·035	+ 0·0064	− 0·001	0·05803	0·06645	1·44770	0·07807	88·728	86. 55. 47·15	1854·4	5
1136	4·5*	98 Virginis.......... κ	14. 5. 25·91	1857·3	36	+ 3·190	+ 0·0123	+ 0·001	0·05778	0·06626	1·45009	0·08265	88·253	99. 37. 12·70	1856·3	18
1137	6	3 Ursæ Minoris	14. 5. (52.)	..	..	0·420	+ 0·0791	..	9·98974	0·02667	1·40517	9·99296	103·899	14. 44. 34·58	1854·4	2
1138	6·5*	Lacaille 5869	14. 6. 55·41	1858·3	8	3·456	+ 0·0249	− 0·017	0·05515	0·06448	1·45417	0·09024	87·693	118. 37. 31·97	1858·3	8
1139	6*	Piazzi XIV. 52	14. 7. 41·57	1857·5	10	3·296	+ 0·0168	+ 0·008	0·05715	0·06558	1·45172	0·08561	88·007	107. 32. 43·94	1857·5	10
1140	4·5	17 Boötis .... κ	14. 8. 27·86	1860·3	3	2·148	− 0·0049	+ 0·009	0·04429	0·05761	1·43373	0·05175	93·029	37. 33. 15·83	1860·3	3
1141	1*	16 Boötis .... α	14. 9. 16·62	1857·0	130	+ 2·813	+ 0·0003	− 0·079	0·05694	0·06524	1·44425	0·07173	89·580	70. 5. 13·40	1857·5	143
1142	6·5*	Groombridge 2091...	14. 9. 28·53	1860·1	3	1·095	+ 0·0286	+ 0·019	0·01482	0·03950	1·41656	0·01893	99·324	19. 54. 34·42	1859·9	6
1143	5·4*	100 Virginis .... λ	14. 11. 32·39	1856·5	15	3·236	+ 0·0140	− 0·002	0·05790	0·06554	1·45080	0·08373	88·164	102. 43. 28·51	1856·6	14
1144	6	103 Virginis .... $υ^2$	14. 14. 45·84	1854·4	10	3·089	+ 0·0085	− 0·003	0·05863	0·06558	1·44854	0·07966	88·572	91. 20. 45·93	1854·4	3
1145	6	2 Libræ	14. 15. 53·84	1860·4	6	3·218	+ 0·0132	− 0·004	0·05831	0·06522	1·45053	0·08308	88·224	101. 4. 20·43	1860·4	6
1146	..	......	14. 17. 3·59	1854·3	1	+ 2·957	+ 0·0045	..	0·05853	0·06522	1·44650	0·07613	89·003	81. 20. 6·75	1854·3	1
1147	6·7	B. F. 1980...........	14. 19. (46.)	..	..	2·451	− 0·0036	..	0·05294	0·06101	1·43856	0·06284	91·155	50. 58. 22·11	1858·3	2
1148	5*	22 Boötis .... f	14. 19. 56·66	1857·7	15	2·795	+ 0·0009	+ 0·001	0·05764	0·06422	1·44397	0·07199	89·606	70. 8. 30·46	1858·3	21
1149	6·5*	52 Hydræ.............	14. 19. 59·01	1858·0	11	3·495	+ 0·0250	+ 0·003	0·05600	0·06309	1·45476	0·08995	87·704	118. 51. 37·07	1858·0	11
1150	5*	105 Virginis .... φ	14. 20. 59·53	1854·4	13	3·094	+ 0·0087	− 0·002	0·05901	0·06503	1·44861	0·07973	88·574	91. 35. 54·29	1854·4	5
1151	6*	24 Boötis .... g	14. 23. 45·60	1860·4	2	+ 2·121	− 0·0027	− 0·030	0·04735	0·05634	1·43330	0·05484	92·747	39. 31. 38·18	1860·4	2
1152	6*	Groombridge 2116...	14. 24. 5·73	1856·4	2	2·353	− 0·0034	..	0·05190	0·05952	1·43701	0·06096	91·564	47. 34. 13·04	1856·4	2
1153	4·3*	25 Boötis .... ρ	14. 25. 47·78	1857·0	62	2·595	− 0·0016	− 0·008	0·05593	0·06213	1·44083	0·06736	90·411	59. 0. 44·52	1857·4	59
1154	8	Lalande 26560	14. 26. 15·56	1855·9	2	2·596	− 0·0016	..	0·05599	0·06211	1·44084	0·06744	90·401	59. 7. 16·57	1855·9	2
1155	..	......	14. 28. 28·82	1857·4	2	1·422	+ 0·0125	..	0·03303	0·04471	1·42196	0·03794	96·325	26. 3. 31·38	1857·4	2
1156	5·4*	28 Boötis .... σ	14. 28. 35·01	1856·4	4	+ 2·599	− 0·0013	+ 0·016	0·05630	0·06196	1·44090	0·06777	90·365	59. 38. 41·64	1856·8	6
1157	9	Oeltz. Arg. 14703 ...	14. 30. 11·20	1855·8	5	1·408	+ 0·0129	..	0·03333	0·04438	1·42174	0·03825	96·324	26. 5. 17·62	1855·9	2
1158	6*	Groombridge 2132...	14. 30. 39·29	1858·1	3	1·237	+ 0·0193	..	0·02948	0·04134	1·41891	0·03399	97·228	23. 59. 32·43	1858·4	32
1159	Var.	......	14. 31. 1·07	1860·4	4	2·649	− 0·0005	..	0·05715	0·06222	1·44167	0·06920	90·137	62. 39. 14·90	1860·4	3
1160	..	Groombridge 2134...	14. 31. 13·86	1854·4	2	1·404	+ 0·0130	..	0·03365	0·04428	1·42167	0·03855	96·297	26. 10. 14·01	1854·4	2

1125 and 1126. These stars are respectively identical with Lacaille 5821 and 5820.
1123. This star is identical with Schwerd 813.
1159. This star is the variable R Boötis; it is of the 8th magnitude at the maximum.

1134. This star is identical with Schwerd 827.

Annual Precession in N.P.D. for 1860, from Peters' Elements.	Secular Variation of Precession in N.P.D.	Annual Proper Motion in N.P.D. from Main or B.A.C.	Logarithms of e′	f′	g′	h′	Value of l′	No. in Bessel's Bradley. 1755.	No. in Lalande Fedorenko (F.) 1790, or British Association (B.A.) 1800.	Hour and No. in Piazzi. 1800.	No. in Groombridge. 1810.	Hour and No. in Weisse's Bessel. 1825.	No. in Argelander. 1830.	No. in Pond's 1112. 1830.	No. in First Cambridge Catalogue. 1830.	No. in Johnson's (St. Helena). 1830.	No. in Fallows. 1830.	No. in Struve. 1830.	No
″	″	″					′ ″			XIII.		XIII.							
+ 17·87	− 0·197	+ 0·36	9·80713	0·17363	1·63214	9·87270	86·587	1821	25608 (B.A.)	240	..	..	314	555	417	..	..	..	1121
17·78	− 0·193	+ 0·07	9·77750	0·20918	1·63210	9·86782	84·675	1826	25658 (B.A.)	254	..	..	..	556	..	..	..	..	1122
17·77	+ 0·015	..	9·82341	0·31630	1·63111	9·86695	71·840	..	2379 (F.)	..	2066	..	..	..	..	..	..	..	1123
17·60	− 0·221	+ 0·07	9·87384	0·09129	1·62945	9·85786	91·307	1829	25747 (B.A.)	275	..	934	..	557	..	..	..	..	1124
17·44	0·252	+ 0·14	0·01136	9·91320	1·62776	9·84884	95·289	1832	25862 (B.A.)	295	..	..	..	558	..	318	..	..	1125
+ 17·44	− 0·263	+ 0·64	0·05530	9·84067	1·62773	9·84868	95·715	1831	...	293	..	..	..	559	..	317	245	..	1126
17·42	0·102	+ 0·04	9·76604	0·30382	1·62759	9·84798	76·567	..	2393 (F.)	306	2075	..	..	..	..	..	..	..	1127
17·40	0·238	− 0·01	9·92727	0·02919	1·62736	9·84670	93·673	1834	...	299	..	1041	316	..	..	..	..	..	1128
17·39	0·246	+ 0·27	9·96185	9·98592	1·62722	9·84458	94·558	..	25886 (B.A.)	300	..	..	..	..	..	..	..	..	1129
17·34	0·127	0·00	9·74943	0·29755	1·62677	9·84369	78·106	1836	2398 (F.)	312	2076	..	317	560	421	..	..	1581	1130
+ 17·23	− 0·251	+ 0·06	9·96384	9·98611	1·62558	9·83756	94·914	..	25965 (B.A.)	317	..	..	..	..	..	..	..	..	1131
17·20	0·240	..	9·89785	0·06450	1·62532	9·83618	93·452	..	...	..	..	..	..	..	..	..	..	..	1132
17·17	− 0·237	..	9·87396	0·08996	1·62503	9·83467	92·851	..	26017 (B.A.)	..	..	XIV. 51	..	..	..	..	..	..	1133
17·17	+ 0·595	..	9·81783	0·31273	1·62503	9·83467	74·508	..	2451 (F.)	..	2099	..	..	..	..	..	..	..	1134
17·14	− 0·237	+ 0·04	9·86859	0·09542	1·62467	9·83285	92·806	..	26031 (B.A.)	XIV. 12	..	64	..	..	..	..	..	..	1135
+ 17·13	− 0·250	− 0·02	9·93404	0·02423	1·62455	9·83226	94·547	1842	26035 (B.A.)	14	..	68	..	562	423	321	..	..	1136
17·11	0·039	− 0·07	9·76693	0·30639	1·62434	9·83122	77·284	..	2417 (F.)	27	2085	..	..	..	..	..	..	..	1137
17·06	0·272	− 0·49	0·02983	9·89896	1·62385	9·82872	96·089	..	...	..	..	..	..	..	..	..	..	..	1138
17·02	0·262	+ 0·01	9·97580	9·97501	1·62347	9·82685	95·548	..	26082 (B.A.)	22	..	..	..	..	..	..	..	..	1139
16·99	0·174	+ 0·02	9·71096	0·27219	1·62311	9·82500	83·269	1849	2422 (F.)	31	2088	..	..	..	..	..	..	1598	1140
+ 16·95	− 0·227	+ 1·93	9·78526	0·17257	1·62271	9·82305	90·584	1847	26132 (B.A.)	32	..	..	321	565	426	..	..	1602	1141
16·94	0·093	+ 0·06	9·73941	0·29974	1·62261	9·82252	79·489	..	2428 (F.)	..	2091	..	..	564	..	..	..	..	1142
16·84	0·264	− 0·02	9·95240	0·00653	1·62161	9·81761	95·579	1850	26167 (B.A.)	37	..	..	..	568	427	324	246	..	1143
16·69	0·257	+ 0·03	9·89170	0·07202	1·62000	9·80974	94·852	1858	26249 (B.A.)	59	..	251	..	..	..	..	..	..	1144
16·63	0·270	+ 0·09	9·94517	0·01738	1·61943	9·80698	95·955	1860	26277 (B.A.)	64	..	..	..	..	428	..	..	..	1145
+ 16·58	− 0·250	..	9·83645	0·12207	1·61883	9·80415	93·916	..	...	..	..	..	..	..	..	..	..	..	1146
16·44	0·212	..	9·70088	0·23458	1·61743	9·79745	89·128	..	26403 (B.A.)	..	..	..	..	..	..	..	..	..	1147
16·43	0·241	− 0·04	9·77605	0·16973	1·61733	9·79699	92·734	1864	26396 (B.A.)	86	..	..	..	..	..	..	..	..	1148
16·43	0·299	+ 0·04	0·04017	9·90554	1·61731	9·79690	97·087	1862	26375 (B.A.)	82	..	..	..	..	..	..	..	..	1149
16·38	0·268	+ 0·02	9·89337	0·07085	1·61678	9·79438	95·786	1865	26415 (B.A.)	90	..	374	..	571	..	330	..	1624	1150
+ 16·24	− 0·189	+ 0·09	9·67311	0·26112	1·61530	9·78748	87·800	1868	2476 (F.)	105	2115	..	327	..	..	..	..	..	1151
16·22	0·209	..	9·68386	0·24197	1·61512	9·78669	89·521	..	26515 (B.A.)	..	2116	..	..	..	..	..	..	..	1152
16·13	0·232	− 0·14	9·71784	0·20793	1·61418	9·78239	92·088	1869	26550 (B.A.)	112	..	..	..	572	..	..	..	..	1153
16·11	0·233	..	9·71750	0·20744	1·61393	9·78125	92·211	..	26560 (B.A.)	..	..	..	..	..	..	..	..	..	1154
15·99	0·132	..	9·66950	0·28245	1·61270	9·77560	86·312	..	...	..	..	..	..	..	..	..	..	..	1155
+ 15·99	− 0·236	− 0·12	9·71634	0·20487	1·61264	9·77535	92·833	1872	26617 (B.A.)	124	..	..	329	574	..	..	..	..	1156
15·90	0·132	..	9·66455	0·28151	1·61175	9·77129	86·802	..	...	..	..	..	..	..	..	..	..	..	1157
15·88	0·117	..	9·66783	0·28403	1·61148	9·77015	86·506	..	2498 (F.)	..	2132	..	..	..	..	..	..	..	1158
15·86	0·243	..	9·72697	0·19403	1·61127	9·76917	93·864	..	...	..	..	..	..	..	..	..	..	..	1159
15·85	0·132	..	9·66124	0·28084	1·61115	9·76866	87·120	..	2499 (F.)	..	2134	..	..	..	..	..	..	..	1160

The magnitudes of Stars taken from Argelander are marked with Asterisks. Other magnitudes are taken in the order of preference from the British Association Catalogue of 8377 Stars; from the Catalogue of Lalande published by the British Association; from Weisse's *Catalogus Stellarum ex Zonis Regiomontanis*; or, for the variable stars, from Mr. Pogson's lists in the "Radcliffe Observations, 1854 and 1856." The authorities for any remaining magnitudes are given in the Notes.

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			h m s			s	s	s					s	° ′ ″			″	″	″					″												
1161	3·4*	30 Boötis .... ζ	14. 34. 27·86	1854·4	15	+ 2·859	+0·0032	+ 0·002	0·05928	0·06335	1·44496	0·07434	89·321	75. 40. 8·93	1854·4	5	+15·67	−0·267	0·00	9·79595	0·14408	1·60928	9·76034	96·335	1876	26761 (B.A.)	XIV. 152	..	XIV. ..	..	577	..	..	..	1643	1161
1162	5·4*	31 Boötis	14. 34. 46·30	1859·4	3	2·943	+0·0050	+ 0·005	0·05969	0·06364	1·44628	0·07627	89·040	81. 14. 14·22	1859·4	3	15·65	0·275	+ 0·02	9·82982	0·12023	1·60910	9·75957	96·975	1877	26766 (B.A.)	155	..	633	..	579	..	..	..	..	1162
1163	5	Piazzi XIV. 150	14. 35. 6·35	1858·6	4	3·649	+0·0301	− 0·008	0·05572	0·06043	1·45711	0·09196	87·571	124. 34. 4·08	1858·6	4	15·64	0·340	+ 0·26	0·07846	9·87949	1·60891	9·75872	98·001	..	...	150	..	..	..	578	..	339	..	..	1163
1164	4*	107 Virginis.......... μ	14. 35. 41·09	1860·4	3	3·146	+0·0104	+ 0·007	0·05992	0·06369	1·44942	0·08083	88·463	95. 2. 49·50	1860·4	3	15·60	0·295	+ 0·33	9·91545	0·05366	1·60857	9·75721	98·115	1880	26790 (B.A.)	158	..	648	334	580	434	340	..	..	1164
1165	9·10	Lalande 26865	14. 36. 48·60	1854·4	2	1·941	+0·0006	..	0·04675	0·05292	1·43041	0·05339	93·320	36. 45. 11·64	1854·4	2	15·54	0·186	..	9·63749	0·26029	1·60790	9·75433	90·778	..	26865 (B.A.)	..	..	..	..	..	..	..	..	..	1165
1166	6*	34 Boötis	14. 37. 16·17	1859·4	4	+ 2·638	0·0000	+ 0·005	0·05769	0·06166	1·44151	0·06951	90·129	62. 52. 30·15	1859·4	4	+15·52	−0·251	− 0·01	9·71999	0·19112	1·60763	9·75312	95·281	1883	26853 (B.A.)	165	..	..	..	581	..	..	..	..	1166
1167	6	5 Libræ	14. 38. 15·01	1856·4	6	3·298	+0·0152	− 0·003	0·05949	0·06299	1·45176	0·08410	88·128	104. 52. 1·02	1856·4	6	15·46	0·313	+ 0·01	9·97497	0·00096	1·60704	9·75056	98·715	1882	26873 (B.A.)	167	..	701	..	..	..	..	..	..	1167
1168	5·4*	35 Boötis .... ο	14. 38. 42·50	1859·4	3	2·802	+0·0024	0·000	0·05925	0·06272	1·44407	0·07326	89·506	72. 26. 27·46	1859·4	3	15·44	0·268	+ 0·02	9·77349	0·15602	1·60677	9·74937	96·793	1888	26893 (B.A.)	172	..	..	..	582	..	..	..	..	1168
1169	..	Boötis .... ϵ^1	14. 38. 52·27	1857·8	3	2·624	−0·0001	..	0·05771	0·06141	1·44129	0·06934	90·173	62. 19. 58·69	1857·8	3	15·43	0·251	..	9·71517	0·19233	1·60667	9·74897	95·559	..	...	..	..	..	..	..	..	..	..	..	1169
1170	2·3*	36 Boötis .... ϵ^2	14. 38. 52·39	1857·2	72	2·624	−0·0001	− 0·005	0·05771	0·06141	1·44129	0·06934	90·173	62. 20. 1·09	1857·7	66	15·43	0·251	− 0·01	9·71517	0·19233	1·60667	9·74897	95·559	1890	26908 (B.A.)	175	..	..	..	583	438	..	..	1654	1170
1171	5·6	55 Hydræ............	14. 39. 14·59	1857·4	1	+ 3·472	+0·0216	− 0·007	0·05824	0·06180	1·45441	0·08776	87·825	115. 2. 1·57	1857·4	1	+15·41	−0·331	+ 0·01	0·03250	9·94199	1·60644	9·74798	98·704	1885	26888 (B.A.)	169	..	..	..	..	..	..	..	..	1171
1172	5	56 Hydræ............	14. 39. 34·90	1858·3	9	3·481	+0·0220	0·000	0·05818	0·06169	1·45456	0·08793	87·813	115. 29. 53·75	1858·3	9	15·39	0·332	+ 0·03	0·03519	9·93937	1·60624	9·74710	98·718	1886	...	173	..	..	..	..	..	..	..	..	1172
1173	5	57 Hydræ............	14. 39. 46·63	1859·4	3	3·492	+0·0224	− 0·005	0·05810	0·06159	1·45472	0·08814	87·797	116. 3. 26·64	1859·4	3	15·38	0·334	+ 0·02	0·03822	9·93616	1·60612	9·74663	98·717	1887	...	176	..	..	..	..	..	..	..	..	1173
1174	6*	7 Libræ............ μ	14. 41. 38·87	1859·4	3	3·281	+0·0145	− 0·004	0·05986	0·06279	1·45150	0·08359	88·172	103. 33. 47·84	1859·4	2	15·27	0·317	+ 0·03	9·96862	0·00919	1·60498	9·74172	99·090	1891	26964 (B.A.)	183	..	767	..	5 85	440	..	..	..	1174
1175	6·5*	6 Libræ.............	14. 42. 4·53	1859·9	2	3·522	+0·0233	− 0·021	0·05802	0·06116	1·45518	0·08858	87·764	117. 22. 28·04	1860·0	3	15·25	0·340	+ 0·05	0·04661	9·92970	1·60472	9·74058	98·851	1892	...	184	..	..	..	586	..	341	..	..	1175
1176	6	8 Libræ.............	14. 42. 56·87	1855·8	3	+ 3·313	+0·0154	− 0·007	0·05979	0·06253	1·45198	0·08420	88·114	105. 24. 46·99	1855·4	2	+15·20	−0·322	+ 0·07	9·98009	9·99938	1·60419	9·73831	99·235	1893	26995 (B.A.)	186	..	..	337	587	444	..	..	1661	1176
1177	2·3*	9 Libræ .... α	14. 43. 8·31	1856·6	58	3·314	+0·0155	− 0·007	0·05981	0·06251	1·45199	0·08421	88·114	105. 27. 27·41	1856·8	41	15·19	0·322	+ 0·06	9·98032	9·99925	1·60408	9·73782	99·257	1894	27008 (B.A.)	187	..	..	338	588	445	343	251	1662	1177
1178	6	Bradley 1895	14. 43. 45·44	1857·7	14	3·343	+0·0164	− 0·005	0·05967	0·06230	1·45245	0·08479	88·060	107. 12. 19·30	1857·6	13	15·15	0·326	+ 0·17	9·99092	9·98972	1·60369	9·73620	99·303	1895	27029 (B.A.)	188	..	..	..	..	..	..	..	..	1178
1179	7	10 Libræ	14. 44. 0·40	1858·4	3	3·353	+0·0168	− 0·001	0·05962	0·06223	1·45260	0·08498	88·042	107. 46. 33·43	1858·4	3	15·14	0·327	− 0·04	9·99441	9·98655	1·60354	9·73555	99·320	1896	27033 (B.A.)	190	..	..	..	..	..	..	..	..	1179
1180	7	6 Ursæ Minoris.......	14. 45. (7.)	..	..	0·266	+0·0686	− 0·031	0·01407	0·02256	1·40253	0·01729	101·510	17. 26. 59·34	1856·8	4	15·07	0·032	+ 0·03	9·64395	0·28260	1·60285	9·73262	89·470	1906	2534 (F.)	210	2161	..	..	..	..	..	..	..	1180
1181	6*	12 Libræ	14. 46. 12·73	1856·9	7	+ 3·468	+0·0207	+ 0·002	0·05894	0·06129	1·45436	0·08717	87·858	114. 4. 0·46	1856·7	8	+15·01	−0·342	+ 0·03	0·03113	9·95174	1·60215	9·72971	99·344	1899	27088 (B.A.)	199	..	..	..	..	..	..	..	..	1181
1182	..	......	14. 46. 27·91	1856·4	1	1·358	+0·0141	..	0·03808	0·04287	1·42091	0·04287	95·892	27. 22. 49·91	1856·4	1	15·00	0·138	..	9·61352	0·27043	1·60200	9·72909	91·743	..	...	..	..	..	..	..	..	..	..	..	1182
1183	5·6	Piazzi XIV. 204	14. 47. 9·77	1858·5	5	3·657	+0·0283	− 0·004	0·05711	0·05951	1·45723	0·09083	87·612	123. 17. 3·21	1858·5	5	14·95	0·362	+ 0·04	0·08023	9·89807	1·60156	9·72723	98·872	..	...	204	..	..	..	..	..	..	..	..	1183
1184	6*	Piazzi XIV. 217	14. 47. 53·29	1860·4	3	1·532	+0·0091	− 0·022	0·04189	0·04579	1·42377	0·04712	94·986	30. 8. 8·54	1860·4	3	14·91	0·156	− 0·07	9·60627	0·26554	1·60110	9·72534	92·648	..	2538 (F.)	217	2164	..	..	..	..	..	..	..	1184
1185	6*	15 Libræ .... ξ^2	14. 49. 10·56	1855·8	25	3·244	+0·0130	− 0·001	0·06062	0·06232	1·45093	0·08258	88·268	100. 50. 32·13	1855·4	10	14·84	0·325	+ 0·03	9·95448	0·02561	1·60026	9·72184	99·991	1903	27182 (B.A.)	214	..	..	..	590	447	345	..	..	1185
1186	6	Piazzi XIV. 212	14. 49. 17·76	1859·2	2	+ 3·414	+0·0185	+ 0·068	0·05967	0·06145	1·45353	0·08591	87·953	110. 46. 51·10	1858·0	3	+14·83	−0·342	+ 1·68	0·01418	9·97204	1·60020	9·72157	99·766	..	27173 (B.A.)	212	..	..	..	..	..	..	..	..	1186
1187	2*	7 Ursæ Minoris ..... β	14. 51. 9·16	1857·7	54	− 0·254	+0·1035	− 0·005	0·00612	0·01200	1·39350	0·00895	103·729	15. 16. 20·65	1857·4	91	14·72	+ 0·019	+ 0·03	9·63397	0·28058	1·59899	9·71660	90·857	1917	2549 (F.)	240	2172	..	340	592	449	..	..	1674	1187
1188	..	......	14. 52. 0·88	1857·4	1	+ 3·228	+0·0124	..	0·06090	0·06215	1·45067	0·08218	88·310	99. 40. 53·08	1857·4	1	14·67	− 0·327	..	9·94787	0·03221	1·59843	9·71429	100·353	..	...	..	..	..	..	..	..	..	..	..	1188
1189	5*	19 Libræ............ δ	14. 53. 29·75	1854·4	16	3·200	+0·0116	− 0·006	0·06110	0·06212	1·45026	0·08163	88·368	97. 57. 39·59	1854·4	5	14·58	0·327	+ 0·02	9·93727	0·04110	1·59746	9·71032	100·556	1911	27314 (B.A.)	238	..	995	..	593	450	347	..	..	1189
1190	5*	40 Boötis	14. 54. 14·92	1855·5	4	2·304	−0·0003	− 0·003	0·05580	0·05698	1·43622	0·06436	91·310	50. 10. 39·52	1855·5	4	14·53	0·238	− 0·03	9·62880	0·22116	1·59696	9·70831	97·553	1914	27367 (B.A.)	248	2173	..	..	..	..	..	..	..	1190
1191	7	Piazzi XIV. 246	14. 55. 14·69	1858·9	4	+ 3·356	+0·0161	+ 0·011	0·06057	0·06135	1·45265	0·08450	88·068	107. 4. 41·72	1858·9	4	+14·47	−0·345	+ 0·09	9·99502	9·99477	1·59630	9·70560	100·525	..	27363 (B.A.)	246	..	..	..	..	..	..	..	..	1191
1192	5*	Piazzi XIV. 260	14. 55. 22·19	1860·1	4	0·943	+0·0284	− 0·004	0·03322	0·03514	1·41402	0·03721	97·539	23. 30. 32·88	1859·8	5	14·47	0·102	− 0·05	9·59306	0·26982	1·59622	9·70529	93·630	..	{ 2560 (F.) / 27441 (B.A.) }	260	2177	..	..	596	452	..	..	..	1192
1193	5	110 Virginis	14. 55. 49·79	1859·4	3	3·029	+0·0075	0·000	0·06144	0·06209	1·44761	0·07837	88·780	87. 21. 24·00	1859·4	3	14·44	0·313	− 0·01	9·86593	0·09106	1·59590	9·70404	100·837	1915	27393 (B.A.)	253	..	..	..	595	..	..	..	1680	1193
1194	3·4*	20 Libræ	14. 55. 53·01	1857·9	15	3·500	+0·0209	− 0·007	0·05963	0·06033	1·45484	0·08711	87·842	114. 43. 44·40	1858·0	15	14·43	0·361	+ 0·03	0·03997	9·95370	1·59588	9·70390	100·153	1913	27382 (B.A.)	251	..	..	..	594	..	349	252	..	1194
1195	3*	42 Boötis .... β	14. 56. 40·35	1858·8	12	2·264	−0·0001	− 0·003	0·05564	0·05633	1·43559	0·06389	91·442	49. 3. 19·52	1858·6	13	14·39	0·236	+ 0·06	9·61868	0·22275	1·59535	9·70178	98·012	1918	27437 (B.A.)	259	2178	..	..	597	..	..	..	..	1195
1196	4·5*	43 Boötis .... ψ	14. 58. 26·85	1856·6	35	+ 2·583	+0·0011	− 0·013	0·05937	0·05964	1·44064	0·07014	90·177	62. 30. 16·23	1856·8	30	+14·28	−0·271	0·00	9·69090	0·18432	1·59415	9·69697	99·936	1922	27481 (B.A.)	270	..	..	342	598	..	..	..	..	1196
1197	6*	21 Libræ.......... ν^1	14. 58. 49·43	1855·7	4	3·337	+0·0153	− 0·004	0·06098	0·06118	1·45235	0·08398	88·112	105. 42. 41·27	1855·7	4	14·25	0·348	+ 0·03	9·98807	0·00324	1·59389	9·69597	100·971	1919	27471 (B.A.)	267	..	..	341	599	453	..	..	..	1197
1198	6·5	22 Libræ.......... ν^2	14. 59. 0·49	1854·4	14	3·341	+0·0154	− 0·003	0·06098	0·06114	1·45241	0·08405	88·105	105. 56. 22·56	1854·4	5	14·24	0·349	+ 0·01	9·98945	0·00218	1·59376	9·69548	100·983	1920	27476 (B.A.)	269	..	..	343	..	..	..	..	..	1198
1199	5*	44 Boötis .... i^1	14. 59. 10·24	1860·4	2	2·018	+0·0014	− 0·045	0·05270	0·05290	1·43166	0·05960	92·438	41. 47. 58·39	1860·4	2	14·23	0·214	− 0·02	9·58614	0·23781	1·59365	9·69502	97·668	1923	{ 2570 (F.) / 27514 (B.A.) }	275	2183	..	..	600	..	..	..	..	1199
1200	6	Boötis .... i^2	14. 59. 10·56	1859·9	2	2·018	+0·0014	− 0·045	0·05270	0·05290	1·43166	0·05960	92·438	41. 47. 57·56	1859·9	2	14·23	0·214	− 0·02	9·58614	0·23780	1·59364	9·69498	97·670	1923	{ 2570 (F.) / 27514 (B.A.) }	275	2183	..	344	600	..	..	..	1687	1200

1163, 1171, 1172, 1173, 1181, 1183, and 1194. These stars are respectively identical with Lacaille 6063, 6097, 6102, 6104, 6143, 6146 and 6212.

1163. In Piazzi and Pond this star is designated c^1 Centauri.

1175. This star is identical with Lacaille 6116; it is designated 58 Hydræ in the B.A.C.

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No.	Magnitude.	Star's Name.	Mean Right Ascension, 1860, Jan. 1, from Observations, 1854 to 1860.	Mean Year and Fraction of Year.	Number of Observations.	Annual Precession in R.A. for 1860, from Peters' Elements.	Secular Variation of Precession in R.A.	Annual Proper Motion in R.A. from Main or B.A.C.	Logarithms of e	f	g	h	Value of l	Mean North Polar Distance, 1860, Jan. 1, from Observations, 1854 to 1860.	Mean Year and Fraction of Year.	Number of Observations.	Annual Precession in N.P.D. for 1860, from Peters' Elements.	Secular Variation of Precession in N.P.D.	Annual Proper Motion in N.P.D. from Main or B.A.C.	Logarithms of e′	f′	g′	h′	Value of l′	No. in Bessel's Bradley. 1755.	No. in Lalande Fedorenko (F.) 1790, or British Association (B.A.) 1800.	Hour and No. in Piazzi. 1800.	No. in Groombridge. 1810.	Hour and No. in Weisse's Bessel. 1825.	No. in Argelander. 1830.	No. in Pond's 1112. 1830.	No. in First Cambridge Catalogue. 1830.	No. in Johnson's (St. Helena). 1830.	No. in Fallows. 1830.	No. in Struve. 1830.	No.
			h m s			s	s	s					s	° ′ ″			″	″	″					″			XIV.		XIV.							
1201	5	Groombridge 2196...	15. 0. 3·04	1860·5	2	− 4·724	+ 0·7212	..	9·90775	9·90766	1·30699	9·90927	124·953	6. 54. 58·40	1860·0	5	+14·18	+0·481	..	9·64895	0·27917	1·59305	9·69262	91·981	..	2604 (F.)	..	2196	..	..	..	..	..	..	..	1201
1202	5·4*	45 Boötis c	15. 1. 9·15	1859·3	2	+ 2·621	+ 0·0015	+ 0·013	0·05997	0·05977	1·44123	0·07104	90·022	64. 35. 1·90	1859·3	2	14·11	−0·278	+ 0·16	9·70165	0·17666	1·59229	9·68963	100·707	1924	27570 (B.A.)	284	..	..	345	601	..	..	..	..	1202
1203	6	Piazzi XIV. 282	15. 1. 41·74	1856·9	7	3·485	+ 0·0198	+ 0·006	0·06032	0·06003	1·45462	0·08647	87·879	113. 26. 52·21	1856·9	7	14·08	0·368	+ 0·04	0·03559	9·96412	1·59191	9·68813	100·764	..	...	282	..	..	..	..	..	..	..	..	1203
1204	6	Groombridge 2192...	15. 1. (50.)	..	..	0·884	+ 0·0298	..	0·03458	0·03383	1·41303	0·03847	97·526	23. 32. 8·96	1857·4	2	14·07	0·098	..	9·57194	0·26554	1·59182	9·68776	95·531	..	2590 (F.)	..	2192	..	..	..	..	..	..	..	1204
1205	5·4*	24 Libræ .... ι^1	15. 4. 14·82	1856·8	31	3·408	+ 0·0171	− 0·002	0·06107	0·06037	1·45345	0·08499	88·003	109. 15. 32·97	1858·0	20	13·92	0·364	+ 0·04	0·01199	9·98723	1·59013	9·68115	101·328	1927	27649 (B.A.)	XV. 3	..	..	..	602	454	..	..	..	1205
1206	7	B. F. 2065	15. 4. 15·45	1858·5	9	+ 3·396	+ 0·0167	..	0·06115	0·06045	1·45325	0·08477	88·022	108. 34. 28·49	1858·5	9	+13·92	−0·363	..	0·00771	9·99081	1·59013	9·68115	101·379	..	27650 (B.A.)	..	..	..	..	..	..	..	..	..	1206
1207	6·5	25 Libræ .... ι^2	15. 5. 21·03	1859·1	4	3·407	+ 0·0170	0·000	0·06118	0·06030	1·45343	0·08492	88·006	109. 7. 3·44	1859·1	4	13·85	0·366	− 0·10	0·01153	9·98852	1·58935	9·67813	101·450	1928	27683 (B.A.)	6	..	..	..	..	..	..	..	..	1207
1208	9	W. B. XV. 74	15. 5. 39·57	1854·4	3	3·239	+ 0·0123	..	0·06197	0·06107	1·45085	0·08205	88·305	99. 47. 45·12	1854·4	3	13·83	0·348	..	9·95216	0·03449	1·58914	9·67731	102·056	..	...	..	..	XV. 74	..	..	..	..	..	..	1208
1209	..	......	15. 5. (40.)	..	..	3·240	+ 0·0123	..	0·06197	0·06107	1·45086	0·08206	88·303	99. 49. 50·78	1854·4	1	13·83	0·348	..	9·95236	0·03433	1·58913	9·67727	102·058	..	...	..	..	..	..	..	..	..	..	..	1209
1210	7	Piazzi XV. 14	15. 6. 33·62	1859·1	3	3·386	+ 0·0162	− 0·003	0·06141	0·06034	1·45310	0·08450	88·044	107. 54. 8·89	1859·1	3	13·77	0·365	− 0·03	0·00458	9·99519	1·58849	9·67479	101·664	..	27724 (B.A.)	14	..	..	..	..	..	..	..	1695	1210
1211	8	Groombridge 2198...	15. 6. 54·33	1860·4	3	+ 1·943	+ 0·0026	..	0·05310	0·05142	1·43045	0·05957	92·600	40. 46. 41·29	1860·4	3	+13·75	−0·212	− 0·02	9·56265	0·23529	1·58825	9·67386	99·599	..	...	..	2198	..	..	..	..	..	..	..	1211
1212	7	Groombridge 2202...	15. 8. 11·98	1860·1	3	1·942	+ 0·0026	..	0·05332	0·05134	1·43043	0·05977	92·578	40. 53. 43·36	1860·1	3	13·67	0·213	..	9·55943	0·23426	1·58731	9·67029	99·962	..	27822 (B.A.)	..	2202	..	..	..	..	..	..	..	1212
1213	6	Piazzi XV. 19	15. 8. 16·44	1857·7	10	3·465	+ 0·0185	− 0·009	0·06109	0·05971	1·45431	0·08574	87·924	111. 52. 44·48	1857·6	12	13·66	0·376	+ 0·09	0·02946	9·97595	1·58727	9·67010	101·503	..	27781 (B.A.)	19	..	..	..	..	..	..	..	..	1213
1214	5*	48 Boötis .... χ	15. 8. 38·04	1859·4	3	2·513	+ 0·0013	− 0·004	0·05988	0·05834	1·43954	0·06973	90·340	60. 18. 50·92	1859·4	7	13·64	0·275	− 0·01	9·66266	0·18660	1·58701	9·66911	102·050	1935	27820 (B.A.)	25	..	..	..	603	..	..	..	..	1214
1215	2*	27 Libræ .... β	15. 9. 28·62	1856·8	63	3·225	+ 0·0118	− 0·009	0·06231	0·06083	1·45064	0·08173	88·337	98. 51. 49·35	1857·2	35	13·58	0·352	+ 0·01	9·94675	0·03965	1·58640	9·66675	102·589	1934	27823 (B.A.)	26	..	154	..	605	459	357	254	..	1215
1216	3*	49 Boötis .... δ	15. 9. 51·56	1857·5	4	+ 2·412	+ 0·0009	+ 0·009	0·05909	0·05724	1·43793	0·06810	90·697	56. 9. 39·18	1857·4	11	+13·56	−0·265	+ 0·09	9·63276	0·19767	1·58613	9·66574	102·007	1936	27859 (B.A.)	29	..	..	..	606	463	..	..	1704	1216
1217	6	Piazzi XV. 36	15. 12. 8·04	1856·0	5	2·689	+ 0·0027	+ 0·003	0·06154	0·05951	1·44230	0·07292	89·726	68. 54. 46·63	1856·2	8	13·41	0·297	− 0·09	9·72230	0·15853	1·58445	9·65941	103·292	..	27927 (B.A.)	36	..	..	..	..	..	..	..	..	1217
1218	..	......	15. 12. 19·20	1854·4	1	2·304	+ 0·0010	..	0·05833	0·05588	1·43622	0·06655	91·069	52. 19. 17·88	1854·4	1	13·40	0·256	..	9·60401	0·20640	1·58432	9·65890	102·267	..	...	..	..	..	..	..	..	..	..	..	1218
1219	..	......	15. 12. (21.)	..	..	2·306	+ 0·0010	..	0·05836	0·05591	1·43626	0·06660	91·059	52. 24. 50·58	1858·5	1	13·40	0·256	..	9·60455	0·20615	1·58432	9·65890	102·278	..	...	..	..	..	..	..	..	..	..	..	1219
1220	..	W. B. XV. 210......	15. 12. 37·13	1854·4	1	3·310	+ 0·0138	..	0·06230	0·06029	1·45194	0·08301	88·183	103. 27. 23·33	1854·4	1	13·38	0·365	..	9·97832	0·01905	1·58411	9·65808	102·663	..	...	..	..	210	..	..	..	..	..	..	1220
1221	6	28 Libræ	15. 12. 57·75	1858·4	7	+ 3·389	+ 0·0159	0·000	0·06199	0·05987	1·45315	0·08427	88·048	107. 38. 50·42	1858·4	7	+13·36	− 0·375	+ 0·08	0·00548	9·99916	1·58385	9·65710	102·350	1938	27932 (B.A.)	37	..	..	..	..	..	..	..	..	1221
1222	5·6*	Groombridge 2214...	15. 13. (0.)	..	..	0·617	+ 0·0387	..	0·03426	0·02853	1·40854	0·03773	98·241	22. 7. 14·19	1857·5	2	13·36	0·073	..	9·53832	0·25933	1·58383	9·65701	98·567	..	{ 2621 (F.) 28017 (B.A.) }	..	2214	..	..	..	..	..	..	..	1222
1223	5	Lupi .... ϕ^2	15. 14. 13·34	1857·1	3	3·810	+ 0·0296	− 0·004	0·05889	0·05612	1·45954	0·09078	87·536	126. 21. 13·44	1857·1	3	13·28	0·422	+ 0·07	0·11220	9·90723	1·58292	9·65362	100·247	..	...	42	..	..	..	607	..	..	..	..	1223
1224	6	30 Libræ .... o^2	15. 15. 13·55	1856·5	29	+ 3·335	+ 0·0143	− 0·003	0·06244	0·06000	1·45232	0·08331	88·141	104. 37. 53·27	1856·6	14	13·21	− 0·372	− 0·03	9·98686	0·01436	1·58216	9·65079	102·868	1941	28002 (B.A.)	50	..	256	351	..	468	..	..	..	1224
1225	5	11 Ursæ Minoris	15. 17. 14·11	1859·4	3	− 0·111	+ 0·0753	+ 0·033	0·02398	0·01428	1·39601	0·02675	101·290	17. 40. 5·04	1859·5	5	13·08	+ 0·007	− 0·03	9·53882	0·26036	1·58064	9·64514	99·092	1954	2636 (F.)	78	2228	..	..	609	..	..	..	..	1225
1226	4	32 Libræ .... ζ^1	15. 20. 21·97	1857·1	24	+ 3·371	+ 0·0148	+ 0·002	0·06276	0·05946	1·45287	0·08366	88·089	106. 13. 31·79	1856·8	21	+12·87	− 0·383	+ 0·05	9·99904	0·00888	1·57826	9·63643	103·275	1949	28160 (B.A.)	75	..	..	..	..	473	..	..	..	1226
1227	3*	12 Draconis .... ι	15. 21. (49.)	..	..	1·325	+ 0·0135	+ 0·010	0·04786	0·04094	1·42036	0·05233	94·826	30. 32. 31·76	1856·4	2	12·77	0·154	− 0·04	9·49872	0·24262	1·57714	9·63234	102·364	1957	2643 (F.)	92	2235	..	..	613	..	..	..	..	1227
1228	7	B. A. C. 5099	15. 22. 16·40	1855·5	2	3·383	+ 0·0150	..	0·06287	0·05927	1·45306	0·08378	88·071	106. 46. 10·90	1855·5	2	12·74	0·387	..	0·00316	0·00722	1·57680	9·63106	103·419	..	...	..	..	..	..	..	..	..	..	..	1228
1229	7	Piazzi XV. 91	15. 23. 40·49	1858·4	6	+ 3·443	+ 0·0165	0·000	0·06272	0·05883	1·45398	0·08459	87·981	109. 40. 59·47	1858·4	6	12·64	− 0·395	+ 0·09	0·02239	9·99462	1·57569	9·62707	103·220	..	...	91	..	..	..	..	..	..	..	..	1229
1230	..	Groombridge 2283...	15. 24. 1·52	1860·3	2	−23·535	+ 7·873:	†..	..	..	..	..	..	2. 14. 12·07	1860·0	6	12·62	+ 2·663	..	9·60906	0·26215	1·57541	9·62610	98·407	..	2713 (F.)	..	2283	..	..	..	..	..	..	..	1230
1231	6*	Piazzi XV. 96	15. 24. 34·56	1858·4	6	+ 3·434	+ 0·0162	− 0·009	0·06285	0·05883	1·45384	0·08442	87·995	109. 11. 26·28	1858·4	6	+12·58	−0·396	+ 0·08	0·01957	9·99732	1·57498	9·62459	103·371	..	28268 (B.A.)	96	..	..	..	..	..	..	..	..	1231
1232	7	Lacaille 6425	15. 25. 36·19	1860·4	2	3·551	+ 0·0192	+ 0·002	0·06229	0·05793	1·45562	0·08603	87·839	114. 38. 4·59	1860·4	2	12·51	0·410	+ 0·32	0·05358	9·97311	1·57417	9·62167	102·742	..	...	..	..	..	..	..	..	..	..	..	1232
1233	4*	52 Boötis........... ν^1	15. 25. 54·14	1856·3	8	2·153	+ 0·0021	+ 0·001	0·05871	0·05329	1·43381	0·06577	91·446	48. 41. 15·86	1856·3	7	12·49	0·251	− 0·01	9·55340	0·20716	1·57394	9·62083	105·347	1965	28346 (B.A.)	108	2242	..	..	..	..	..	..	..	1233
1234	4*	53 Boötis........... ν^2	15. 26. 46·39	1856·4	6	2·148	+ 0·0021	− 0·003	0·05878	0·05319	1·43373	0·06581	91·453	48. 37. 25·25	1856·4	6	12·43	0·251	− 0·01	9·55096	0·20677	1·57325	9·61837	105·563	1967	28371 (B.A.)	112	2444	..	..	..	..	..	..	..	1234
1235	4*	4 Coronæ .... θ	15. 27. 17·15	1859·4	4	2·420	+ 0·0019	− 0·003	0·06126	0·05626	1·43806	0·06982	90·492	58. 9. 57·64	1859·4	5	12·40	0·286	+ 0·02	9·61982	0·18358	1·57283	9·61691	106·205	1968	28380 (B.A.)	115	..	..	..	617	..	..	..	..	1235
1236	4·5*	38 Libræ .... γ	15. 27. 42·03	1854·2	2	+ 3·341	+ 0·0136	+ 0·002	0·06354	0·05912	1·45241	0·08296	88·144	104. 19. 11·17	1854·2	2	+12·37	−0·389	− 0·02	9·98865	0·02015	1·57250	9·61573	104·297	1964	28360 (B.A.)	111	..	500	..	616	476	365	..	..	1236
1237	4·5*	39 Libræ	15. 28. 31·96	1860·2	5	3·625	+ 0·0210	− 0·002	0·06213	0·08712	1·45675	0·08688	87·754	117. 40. 4·81	1860·2	5	12·31	0·423	0·00	0·07273	9·96141	1·57184	9·61336	102·531	1966	...	116	..	..	..	619	..	366	..	..	1237
1238	2*	5 Coronæ .... α	15. 28. 45·69	1857·2	92	2·529	+ 0·0024	+ 0·009	0·06222	0·05721	1·43980	0·07151	90·119	62. 48. 42·96	1857·7	93	12·30	0·297	+ 0·07	9·65619	0·17028	1·57164	9·61272	106·669	1973	28417 (B.A.)	121	..	..	356	620	477	..	..	1732	1238
1239	4·5*	40 Libræ	15. 30. 3·93	1857·8	18	3·668	+ 0·0221	− 0·007	0·06201	0·05664	1·45739	0·08735	87·709	119. 18. 50·33	1857·8	18	12·21	0·430	+ 0·08	0·08282	9·95523	1·57060	9·60902	102·388	1970	...	123	..	..	..	622	..	367	..	..	1239
1240	5*	6 Coronæ .... μ	15. 30. 6·77	1859·5	3	2·198	+ 0·0021	+ 0·001	0·05973	0·05364	1·43454	0·06691	91·225	50. 31. 23·18	1859·5	3	12·20	0·260	− 0·01	9·55691	0·20054	1·57057	9·60894	106·512	1979	28475 (B.A.)	135	..	..	..	623	..	..	..	..	1240

1223, 1237, and 1239. These stars are respectively identical with Lacaille 6349, 6445, and 6455.
1201, 1225, and 1230. These stars are respectively identical with Schwerd 876, 895, and 922.
† For No. 1230, log. e = 9·09758, log. f = − 9·10609, log. g = 0·16596, log. h = 9·10041, l = 205^s·154.

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No.	Magnitude.	Star's Name.	Mean Right Ascension, 1860, Jan. 1, from Observations, 1854 to 1860.	Mean Year and Fraction of Year.	Number of Observations.	Annual Precession in R.A. for 1860, from Peters' Elements.	Secular Variation of Precession in R.A.	Annual Proper Motion in R.A. from Main or B.A.C.	Logarithms of c	f	g	h	Value of l	Mean North Polar Distance, 1860, Jan. 1, from Observations, 1854 to 1860.	Mean Year and Fraction of Year.	Number of Observations.
			h m s			s	s	s					s	° ′ ″		
1241	5.6	42 Libræ	15. 32. 0.74	1857.8	4	+ 3.533	+0.0180	− 0.003	0.06307	0.05767	1.45535	0.08541	87.870	113. 21. 34.67	1857.8	4
1242	9	W. B. XV. 637	15. 33. 48.66	1855.9	2	3.362	+0.0137	..	0.06404	0.05864	1.45274	0.08304	88.111	105. 6. 17.93	1855.9	2
1243	5*	43 Libræ κ	15. 33. 53.17	1858.4	6	3.447	+0.0157	− 0.003	0.06370	0.05816	1.45403	0.08416	87.987	109. 13. 18.86	1858.4	6
1244	4*	7 Coronæ ζ¹	15. 34. 5.94	1859.4	3	2.259	+0.0022	+ 0.013	0.06081	0.05415	1.43551	0.06820	90.961	52. 54. 24.26	1859.4	3
1245	..	Coronæ ζ²	15. 34. 6.37	1859.4	3	2.259	+0.0022	+ 0.013	0.06081	0.05415	1.43551	0.06820	90.961	52. 54. 27.29	1859.4	3
1246	9	W. B. XV. 644	15. 34. 10.11	1855.4	1	+ 3.362	+0.0137	..	0.06407	0.05861	1.45274	0.08303	88.112	105. 6. 50.75	1855.4	1
1247	5.4*	21 Serpentis ι	15. 35. 18.64	1857.4	9	+ 2.677	+0.0035	− 0.005	0.06374	0.05793	1.44211	0.07393	89.630	69. 52. 35.36	1857.4	10
1248	6.5*	15 Ursæ Minoris θ	15. 35. 38.78	1859.8	3	− 1.932	+0.1942	− 0.024	0.00601	9.97531	1.36302	0.00781	107.898	12. 11. 9.30	1858.8	17
1249	6*	44 Libræ η	15. 36. 12.16	1854.2	3	+ 3.367	+0.0136	+ 0.001	0.06425	0.05846	1.45281	0.08301	88.106	105. 13. 25.11	1854.2	3
1250	4.3*	8 Coronæ γ	15. 36. 51.91	1859.4	3	2.526	+0.0026	− 0.005	0.06309	0.05668	1.43974	0.07201	90.066	63. 15. 31.25	1859.4	5
1251	2.3*	24 Serpentis α	15. 37. 22.44	1857.5	86	+ 2.941	+0.0062	+ 0.009	0.06478	0.05898	1.44625	0.07748	88.928	83. 7. 52.88	1857.4	53
1252	6	Lalande 28670	15. 37. 30.27	1857.4	6	3.562	+0.0182	..	0.06348	0.05712	1.45579	0.08548	87.839	114. 16. 19.05	1857.4	6
1253	6*	9 Coronæ π	15. 38. (28.)	..	..	2.365	+0.0023	− 0.006	0.06220	0.05508	1.43720	0.07002	90.558	57. 2. 23.77	1855.4	2
1254	4.5*	27 Serpentis λ	15. 39. 39.02	1858.4	6	2.922	+0.0060	− 0.013	0.06496	0.05879	1.44595	0.07728	88.966	82. 12. 20.60	1858.4	6
1255	..	......	15. 40. 34.27	1860.4	1	3.700	+0.0215	..	0.06299	0.05575	1.45788	0.08700	87.689	119. 46. 35.86	1860.4	1
1256	5*	5 Lupi χ	15. 42. 4.29	1857.0	11	+ 3.793	+0.0239	− 0.001	0.06253	0.05474	1.45929	0.08803	87.600	123. 11. 47.27	1856.9	12
1257	5*	1 Scorpii b	15. 42. 33.90	1859.0	7	3.594	+0.0184	− 0.005	0.06385	0.05657	1.45628	0.08558	87.805	115. 19. 20.14	1859.0	7
1258	Var.*	......	15. 42. 48.42	1860.4	2	2.470	+0.0026	+ 0.017	0.06341	0.05587	1.43886	0.07171	90.186	61. 24. 40.81	1860.4	2
1259	4.5*	10 Coronæ δ	15. 43. 43.45	1859.5	3	2.520	+0.0028	− 0.006	0.06380	0.05625	1.43965	0.07239	90.028	63. 30. 3.11	1859.5	3
1260	3.4*	37 Serpentis ε	15. 43. 50.35	1857.1	38	2.977	+0.0066	+ 0.010	0.06540	0.05865	1.44680	0.07802	88.830	85. 5. 53.35	1857.3	22
1261	5*	38 Serpentis ρ	15. 45. 7.10	1859.4	3	+ 2.636	+0.0034	0.000	0.06455	0.05707	1.44148	0.07390	89.683	68. 35. 56.33	1859.4	3
1262	..	Scorpii A¹	15. 45. 12.59	1857.5	1	3.588	+0.0180	..	0.06416	0.05647	1.45619	0.08535	87.814	114. 54. ..	..	..
1263	6*	45 Libræ λ	15. 45. 12.73	1858.3	8	3.471	+0.0152	− 0.001	0.06472	0.05731	1.45441	0.08396	87.957	109. 44. 42.38	1858.3	8
1264	5*	2 Scorpii A²	15. 45. 12.76	1857.3	10	3.589	+0.0180	− 0.003	0.06416	0.05647	1.45619	0.08535	87.814	114. 54. 20.38	1857.3	10
1265	Var.	......	15. 45. 40.67	1860.3	5	3.388	+0.0134	..	0.06509	0.05777	1.45313	0.08294	88.075	105. 48. 59.47	1860.3	5
1266	5.4*	46 Libræ θ	15. 45. 51.58	1854.3	2	+ 3.398	+0.0136	+ 0.009	0.06507	0.05771	1.45329	0.08307	88.058	106. 18. 54.33	1854.3	2
1267	5.4*	11 Coronæ κ	15. 45. 57.51	1860.0	4	2.259	+0.0026	− 0.002	0.06237	0.05353	1.43551	0.06936	90.820	53. 54. 22.52	1859.8	6
1268	..	......	15. 46. 53.82	1855.5	1	+ 3.686	+0.0202	..	0.06380	0.05554	1.45767	0.08639	87.708	118. 46. 20.52	1855.5	1
1269	6	18 Ursæ Minoris	15. 47. (26.)	..	..	− 3.560	+0.3316	..	9.99170	9.93686	1.33122	9.99304	113.525	9. 34. 51.69	1860.4	2
1270	4.5	1 Herculis χ	15. 47. 50.14	1856.4	5	+ 2.033	+0.0034	+ 0.040	0.06085	0.05068	1.43189	0.06680	91.550	47. 9. 17.68	1856.5	4
1271	4.5	{ Lupi ξ¹	15. 47. 56.75	1860.5	2	+ 3.816	+0.0204	+ 0.005	0.06312	0.05420	1.45963	0.08782	87.584	123. 33. 7.64	1860.5	2
1272	4.5	{ Lupi ξ²	15. 47. 57.73	1860.5	1	3.816	+0.0204	− 0.023	0.06312	0.05420	1.45963	0.08781	87.585	123. 33. 0.83	1860.5	1
1273	5.4*	5 Scorpii ρ	15. 48. 14.83	1857.9	6	3.689	+0.0201	− 0.004	0.06394	0.05543	1.45771	0.08633	87.708	118. 48. 5.68	1857.4	5
1274	6	W. B. XV. 910	15. 48. 23.68	1856.9	2	+ 3.352	+0.0125	..	0.06546	0.05779	1.45258	0.08243	88.128	103. 59. 2.12	1856.9	2
1275	4.5*	16 Ursæ Minoris ζ	15. 49. 8.40	1857.8	31	− 2.323	+0.2045	+ 0.029	0.01012	9.96630	1.35558	0.01165	108.386	11. 46. 36.66	1857.7	48
1276	..	......	15. 49. 11.37	1857.4	3	+ 3.352	+0.0124	..	0.06553	0.05774	1.45258	0.08241	88.127	103. 58. 17.35	1857.4	3
1277	4.3*	41 Serpentis γ	15. 49. 59.31	1857.4	25	2.746	+0.0043	+ 0.022	0.06547	0.05746	1.44320	0.07542	89.360	73. 52. 44.23	1856.5	14
1278	5*	48 Libræ	15. 50. 21.27	1857.5	1	3.351	+0.0123	− 0.002	0.06565	0.05768	1.45256	0.08236	88.129	103. 52. 20.64	1857.5	1
1279	3*	6 Scorpii π	15. 50. 23.36	1856.5	1	3.616	+0.0180	− 0.003	0.06459	0.05596	1.45660	0.08537	87.784	115. 42. 26.53	1856.5	1
1280	4*	13 Coronæ ε	15. 51. 47.62	1859.4	4	2.487	+0.0029	− 0.003	0.06453	0.05554	1.43913	0.07253	90.055	62. 42. 52.22	1859.4	4

No.	Annual Precession in N.P.D. for 1860, from Peters' Elements.	Secular Variation of Precession in N.P.D.	Annual Proper Motion in N.P.D. from Main or B.A.C.	Logarithms of c′	f′	g′	h′	Value of l′	No. in Bessel's Bradley. 1755.	No. in Lalande Fedorenko (F.) 1790, or British Association (B.A.) 1800.	Hour and No. in Piazzi. 1800.	No. in Groombridge. 1810.	Hour and No. in Weisse's Bessel. 1825.	No. in Argelander. 1830.	No. in Pond's 1112. 1830.	No. in First Cambridge Catalogue. 1830.	No. in Johnson's (St. Helena). 1830.	No. in Fallows. 1830.	No. in Struve. 1830.
	″	″	″					″			XV.		XV.						
1241	+12.07	−0.417	+ 0.02	0.04864	9.98286	1.56902	9.60354	103.486	1978	28498 (B.A.)	138	..	..	..	..	..	..	..	..
1242	11.94	0.399	..	9.99577	0.01907	1.56755	9.59843	104.870	..	...	..	..	637	..	..	..	..	..	..
1243	11.94	0.409	+ 0.12	0.02313	0.00178	1.56747	9.59819	104.293	1981	28562 (B.A.)	145	..	..	..	625	..	368	..	..
1244	11.92	0.270	+ 0.10	9.56679	0.19273	1.56729	9.59756	107.611	..	28599 (B.A.)	152	..	..	..	626	..	..	..	..
1245	11.92	0.270	+ 0.10	9.56679	0.19273	1.56729	9.59756	107.611	..	...	..	..	..	..	..	..	..	..	1740
1246	+11.92	−0.400	..	9.99599	0.01914	1.56723	9.59738	104.910	..	...	..	..	644	..	..	..	..	..	..
1247	11.84	−0.320	+ 0.02	9.71172	0.14706	1.56630	9.59415	108.026	1986	28616 (B.A.)	155	..	..	358	627	..	..	..	..
1248	11.81	+0.223	− 0.01	9.50311	0.24939	1.56601	9.59314	103.669	2008	2679 (F.)	172	2268	..	..	630	..	..	..	..
1249	11.77	−0.403	+ 0.06	9.99730	0.01950	1.56555	9.59158	105.115	1985	28629 (B.A.)	157	..	..	..	628	480	369	..	..
1250	11.73	0.304	− 0.08	9.65070	0.16530	1.56499	9.58967	108.443	1991	28684 (B.A.)	162	..	..	360	..	..	..	..	1741
1251	+11.69	−0.354	− 0.05	9.82743	0.10370	1.56457	9.58826	107.738	1990	28690 (B.A.)	163	..	712	361	629	481	..	..	1742
1252	11.68	0.427	..	0.05629	9.98254	1.56447	9.58792	103.825	..	28670 (B.A.)	..	..	..	..	..	..	..	..	..
1253	11.61	0.286	0.00	9.59351	0.18044	1.56364	9.58513	108.764	1994	28730 (B.A.)	167	..	..	..	..	..	..	..	..
1254	11.53	0.354	+ 0.04	9.81889	0.10653	1.56263	9.58175	108.198	1995	28745 (B.A.)	169	..	760	..	631	..	..	..	..
1255	11.46	0.448	..	0.09026	9.96195	1.56185	9.57912	103.082	..	...	..	..	..	..	..	..	..	..	..
1256	+11.36	−0.461	+ 0.06	0.10998	9.94939	1.56057	9.57485	102.526	1998	...	174	..	..	..	633	..	370	..	..
1257	11.32	0.438	+ 0.02	0.06472	9.98167	1.56013	9.57342	104.071	2000	28804 (B.A.)	177	..	..	..	635	..	373	..	..
1258	11.30	0.302	0.00	9.62716	0.16720	1.55993	9.57276	109.755	..	28843 (B.A.)	185	..	..	..	..	..	..	..	..
1259	11.24	0.309	+ 0.03	9.64552	0.16135	1.55914	9.57014	109.924	2010	28867 (B.A.)	188	..	..	366	638	..	..	..	..
1260	11.23	0.365	− 0.07	9.84317	0.09615	1.55903	9.56981	108.626	2005	28854 (B.A.)	187	..	842	364	637	483	..	..	..
1261	+11.13	−0.325	− 0.06	9.69241	0.14692	1.55792	9.56613	110.056	2013	28905 (B.A.)	194	..	..	367	641	..	..	..	..
1262	11.13	0.440	..	0.06322	9.98516	1.55783	9.56586	104.370	..	28878 (B.A.)	..	..	..	..	..	..	374	..	..
1263	11.13	0.426	+ 0.01	0.03048	0.00541	1.55783	9.56586	105.317	2007	28880 (B.A.)	190	..	..	..	640	..	375	..	..
1264	11.13	0.440	+ 0.01	0.06322	9.98516	1.55783	9.56586	104.370	2006	28878 (B.A.)	189	..	..	..	639	..	374	..	..
1265	11.09	0.416	..	0.00415	0.02088	1.55742	9.56452	106.046	..	...	..	..	..	..	..	..	..	..	..
1266	+11.08	−0.418	− 0.12	0.00762	0.01903	1.55728	9.56404	105.978	2011	28903 (B.A.)	193	..	..	368	642	484	376	257	..
1267	11.07	0.280	+ 0.33	9.55400	0.18336	1.55718	9.56374	110.472	2018	28928 (B.A.)	200	..	..	369	643	..	..	..	..
1268	11.01	−0.454	..	0.08704	9.97124	1.55636	9.56110	103.748	..	...	..	..	..	..	..	..	..	..	..
1269	10.97	+0.430	..	9.48015	0.24033	1.55588	9.55950	106.744	..	2706 (F.)	..	2292	..	..	..	..	..	..	1761
1270	10.94	−0.253	− 0.58	9.49388	0.19614	1.55553	9.55841	110.766	2021	28992 (B.A.)	211	2284	..	371	..	..	..	..	..
1271	+10.93	−0.471	+ 0.01	0.11454	9.95371	1.55542	9.55804	102.835	..	...	204	..	..	..	..	..	..	..	..
1272	10.93	0.471	− 0.02	0.11458	9.95372	1.55541	9.55799	102.833	..	...	205	..	..	..	..	..	..	..	..
1273	10.91	0.456	+ 0.03	0.08778	9.97223	1.55515	9.55718	103.846	2017	...	207	..	..	..	644	..	377	..	..
1274	10.89	−0.415	..	9.99202	0.02888	1.55502	9.55677	106.654	..	28969 (B.A.)	..	..	910	..	..	..	..	..	..
1275	10.84	+0.280	+ 0.08	9.45909	0.23782	1.55437	9.55466	107.604	2041	2709 (F.)	238	2294	..	374	649	..	..	..	1762
1276	+10.84	−0.416	..	9.99211	0.02921	1.55432	9.55452	106.745	..	...	..	..	..	..	..	..	..	..	..
1277	10.78	0.342	+ 1.27	9.73957	0.13007	1.55360	9.55225	110.697	2023	...	219	..	..	373	646	485	..	..	..
1278	10.75	0.417	+ 0.10	9.99167	0.03001	1.55327	9.55120	106.892	2022	29029 (B.A.)	218	..	947	..	647	486	379	..	..
1279	10.75	0.450	+ 0.04	0.07007	9.98570	1.55324	9.55111	104.643	2020	...	216	..	..	..	645	..	378	..	..
1280	10.64	0.312	+ 0.05	9.62921	0.15934	1.55198	9.54706	111.692	2029	29091 (B.A.)	229	..	..	..	650	..	..	..	..

1241, 1256, 1257, 1264, 1271, 1273, and 1279. These stars are respectively identical with Lacaille 6479, 6548, 6557, 6574, 6592, 6601, and 6622.
1258. This star is the variable R Coronæ; the maximum magnitude is the 6th, the period 323 days.
1265. This star is the variable R Libræ; the maximum magnitude about 9. 1248, 1269, and 1275. These stars are respectively identical with Schwerd 920, 934, and 956.

The magnitudes of Stars taken from Argelander are marked with Asterisks. Other magnitudes are taken in the order of preference from the British Association Catalogue of 8377 Stars; from the Catalogue of Lalande published by the British Association; from Weisse's *Catalogus Stellarum ex Zonis Regiomontanis*; or, for the variable stars, from Mr. Pogson's lists in the "Radcliffe Observations, 1854 and 1856." The authorities for any remaining magnitudes are given in the Notes.

No.	Magnitude.	Star's Name.	Mean Right Ascension, 1860, Jan. 1, from Observations, 1854 to 1860.	Mean Year and Fraction of Year.	Number of Observations.	Annual Precession in R.A. for 1860, from Peters' Elements.	Secular Variation of Precession in R.A.	Annual Proper Motion in R.A. from Main or B.A.C.	Logarithms of e	Logarithms of f	Logarithms of g	Logarithms of h	Value of l	Mean North Polar Distance, 1860, Jan. 1, from Observations, 1854 to 1860.	Mean Year and Fraction of Year.	Number of Observations.
			h m s			s	s	s					s	° ′ ″		
1281	2·3*	7 Scorpii .... δ	15. 52. 3·66	1857·3	30	+ 3·535	+0·0160	− 0·001	0·06515	0·05650	1·45538	0·08438	87·878	112. 13. 11·43	1857·4	30
1282	5·6	49 Libræ	15. 52. 28·45	1860·5	2	3·400	+0·0131	− 0·049	0·06571	0·05732	1·45332	0·08285	88·054	106. 7. 4·38	1860·5	2
1283	6·5*	15 Coronæ .... ρ	15. 55. 41·55	1860·4	1	2·308	+0·0028	− 0·013	0·06394	0·05359	1·43628	0·07079	90·557	56. 16. 18·69	1860·4	3
1284	5·4*	44 Serpentis......... π	15. 56. 16·09	1859·4	3	2·581	+0·0034	+ 0·002	0·06547	0·05605	1·44060	0·07384	89·759	66. 48. 16·59	1859·4	3
1285	2*	8 Scorpii .... β¹	15. 57. 18·08	1857·4	40	3·477	+0·0142	− 0·002	0·06593	0·05659	1·45450	0·08350	87·950	109. 25. 8·37	1856·8	32
1286	5·6	Scorpii .... β²	15. 57. 18·51	1856·2	9	+ 3·477	+0·0142	− 0·005	0·06593	0·05659	1·45450	0·08350	87·950	109. 24. 55·36	1856·4	9
1287	4·5	Lupi............. θ	15. 57. 24·55	1856·7	4	3·921	+0·0247	+ 0·004	0·06362	0·05259	1·46121	0·08816	87·506	126. 25. 3·19	1856·7	4
1288	4·5*	6 Herculis .... υ	15. 58. 26·44	1859·8	3	1·860	+0·0047	0·000	0·06109	0·04788	1·42910	0·06616	91·965	43. 34. 22·33	1859·8	3
1289	4*	9 Scorpii .... ω¹	15. 58. 37·37	1857·7	10	3·499	+0·0145	+ 0·001	0·06599	0·05639	1·45482	0·08366	87·923	110. 17. 11·58	1857·6	12
1290	4·5	10 Scorpii .... ω²	15. 59. 12·02	1857·2	10	3·504	+0·0146	+ 0·002	0·06603	0·05632	1·45490	0·08369	87·916	110. 29. 13·56	1857·2	10
1291	5	Piazzi XV. 265	15. 59. 35·99	1857·6	6	+ 3·635	+0·0173	+ 0·010	0·06551	0·05532	1·45690	0·08503	87·765	115. 56. 53·51	1857·3	7
1292	..	......	16. 1. 14·86	1857·5	2	3·400	+0·0124	..	0·06659	0·05684	1·45331	0·08253	88·050	105. 44. 42·14	1857·5	2
1293	5*	13 Scorpii .... c²	16. 3. 41·25	1858·7	5	3·682	+0·0178	+ 0·004	0·06574	0·05472	1·45761	0·08525	87·717	117. 33. 33·49	1858·7	5
1294	5·4*	16 Coronæ .... τ	16. 3. 51·28	1860·4	3	2·196	+0·0031	− 0·003	0·06430	0·05198	1·43450	0·07032	90·803	53. 9. 4·53	1860·4	5
1295	4*	14 Scorpii .... ν²	16. 3. 51·79	1860·2	1	3·477	+0·0136	− 0·002	0·06661	0·05626	1·45449	0·08321	87·946	109. 5. 35·77	1860·2	1
1296	5*	15 Scorpii .... ψ	16. 4. 20·98	1859·4	4	+ 3·272	+0·0101	0·000	0·06718	0·05721	1·45136	0·08117	88·233	99. 41. 53·09	1859·4	4
1297	4*	11 Herculis .... φ	16. 4. 21·65	1860·5	3	1·889	+0·0046	− 0·019	0·06227	0·04807	1·42958	0·06723	91·767	44. 41. 46·75	1860·5	2
1298	9	Lalande 29490	16. 4. 30·76	1855·0	2	3·350	+0·0113	..	0·06704	0·05690	1·45256	0·08194	88·116	103. 22. 20·89	1855·0	2
1299	..	......	16. 4. 40·69	1855·5	1	3·350	+0·0113	..	0·06706	0·05689	1·45255	0·08193	88·117	103. 20. 27·11	1855·5	1
1300	6	Piazzi XVI. 10	16. 5. 26·93	1858·3	8	+ 3·523	+0·0143	− 0·002	0·06661	0·05588	1·45520	0·08361	87·888	111. 2. 20·43	1858·3	8
1301	..	Lalande (F.) 2774 ...	16. 5. 32·33	1858·1	3	− 12·529	+ 1·7557	..	9·88892	9·62315	1·09590	9·88959	145·791	4. 18. 7·48	1858·2	4
1302	..	......	16. 5. 39·15	1855·5	2	+ 3·580	+0·0154	..	0·06642	0·05545	1·45607	0·08415	87·822	113. 24. 47·13	1855·4	2
1303	6·7	Groombridge 2320...	16. 5. 57·24	1859·1	3	0·138	+0·0410	− 0·006	0·04703	0·01803	1·40033	0·04942	97·903	21. 49. 15·06	1858·2	21
1304	3*	1 Ophiuchi .... δ	16. 7. 0·68	1857·5	71	3·141	+0·0082	− 0·006	0·06759	0·05735	1·44933	0·07985	88·447	93. 19. 50·56	1857·5	44
1305	6*	18 Scorpii.............	16. 8. 0·91	1859·5	3	3·238	+0·0094	+ 0·011	0·06759	0·05711	1·45083	0·08077	88·282	97. 59. 44·36	1859·5	3
1306	7	Piazzi XVI. 28	16. 8. 48·50	1858·3	4	+ 3·497	+0·0135	− 0·009	0·06706	0·05589	1·45480	0·08320	87·918	109. 45. 9·40	1858·3	4
1307	Var.	......	16. 9. 18·43	1860·3	2	3·565	+0·0147	..	0·06687	0·05540	1·45583	0·08382	87·837	112. 35. 43·50	1860·3	1
1308	7	Piazzi XVI. 35	16. 10. 40·52	1856·5	1	3·773	+0·0187	..	0·06612	0·05354	1·45899	0·08568	87·629	120. 33. 31·62	1856·5	1
1309	6	Piazzi XVI. 36	16. 10. 41·80	1857·4	9	3·774	+0·0187	+ 0·005	0·06613	0·05354	1·45899	0·08568	87·628	120. 33. 48·25	1857·4	9
1310	7	Piazzi XVI. 39	16. 10. 56·13	1858·3	4	3·502	+0·0133	+ 0·007	0·06726	0·05576	1·45487	0·08316	87·909	109. 52. 22·21	1858·4	3
1311	3·4*	20 Scorpii........... σ	16. 12. 41·00	1858·2	11	+ 3·635	+0·0156	− 0·003	0·06697	0·05470	1·45689	0·08430	87·759	115. 15. 11·92	1858·0	10
1312	..	......	16. 12. 55·67	1855·5	2	+ 3·588	+0·0147	..	0·06718	0·05506	1·45618	0·08385	87·810	113. 22. 7·32	1855·5	2
1313	6*	19 Ursæ Minoris	16. 14. 51·59	1860·4	1	− 1·819	+0·1271	− 0·031	0·03178	9·97719	1·36514	0·03323	104·575	13. 46. 16·21	1860·4	1
1314	5	Groombridge 2332...	16. 14. 55·51	1860·1	3	+ 0·988	+0·0162	..	0·05721	0·03345	1·41476	0·06020	94·576	29. 54. 16·27	1860·1	3
1315	5*	50 Serpentis......... σ	16. 14. 59·06	1859·5	3	3·044	+0·0068	− 0·007	0·06838	0·05698	1·44783	0·07893	88·597	88. 38. 20·64	1859·5	3
1316	3·4*	22 Herculis.......... τ	16. 15. 32·04	1858·3	25	+ 1·800	+0·0052	0·000	0·06342	0·04642	1·42814	0·06778	91·866	43. 21. 5·33	1858·1	13
1317	3*	20 Herculis.......... γ	16. 15. 44·75	1857·5	35	2·647	+0·0039	− 0·004	0·06779	0·05556	1·44165	0·07542	89·448	70. 30. 56·12	1857·1	47
1318	5*	4 Ophiuchi......... ψ	16. 15. 54·88	1859·4	3	3·502	+0·0128	− 0·004	0·06779	0·05552	1·45488	0·08295	87·904	109. 42. 22·48	1859·4	3
1319	5*	19 Coronæ.......... ξ	16. 16. 38·62	1860·1	3	2·343	+0·0032	− 0·001	0·06671	0·05301	1·43684	0·07276	90·232	58. 46. 51·48	1860·1	3
1320	5*	20 Coronæ.......... ν¹	16. 17. 5·31	1859·8	3	2·256	+0·0032	+ 0·007	0·06634	0·05209	1·43546	0·07202	90·472	55. 52. 8·92	1859·8	3

1287, 1291, 1293, 1309, and 1311. These stars are respectively identical with Lacaille 6678, 6702, 6730, 6788, and 6799.
1301. This star is identical with Schwerd 960.
1307. This star is the variable R Scorpii; the maximum magnitude about 9.
1308. The magnitude has been taken from Piazzi.

Annual Precession in N.P.D. for 1860, from Peters' Elements.	Secular Variation of Precession in N.P.D.	Annual Proper Motion in N.P.D. from Main or B.A.C.	Logarithms of e′	Logarithms of f′	Logarithms of g′	Logarithms of h′	Value of l′	No. in Bessel's Bradley. 1755.	No. in Lalande Fedorenko (F.) 1790, or British Association (B.A.) 1800.	Hour and No. in Piazzi. 1800.	No. in Groombridge. 1810.	Hour and No. in Weisse's Bessel. 1825.	No. in Argelander. 1830.	No. in Pond's 1112. 1830.	No. in First Cambridge Catalogue. 1830.	No. in Johnson's (St. Helena). 1830.	No. in Fallows. 1830.	No. in Struve. 1830.	No.
″	″	″					″												
+ 10·62	− 0·442	+ 0·01	0·04883	9·99986	1·55175	9·54634	105·488	2024	29072 (B.A.)	XV. 225	..	XV. ..	..	648	487	381	258	..	1281
10·59	0·426	+ 0·37	0·00809	0·02258	1·55137	9·54515	106·712	2026	29085 (B.A.)	228	..	..	375	..	488	..	259	..	1282
10·35	0·293	+ 0·76	9·56050	0·17221	1·54842	9·53591	112·736	2037	29213 (B.A.)	246	..	..	377	..	..	..	..	..	1283
10·31	0·327	− 0·08	9·66586	0·14690	1·54789	9·53431	112·428	2038	29222 (B.A.)	250	..	..	..	651	..	..	..	..	1284
10·23	0·441	+ 0·02	0·03205	0·01301	1·54694	9·53140	106·548	2034	29228 (B.A.)	251	..	..	..	654	490	385	260	1773	1285
+ 10·23	− 0·441	+ 0·09	0·03205	0·01301	1·54694	9·53140	106·548	..	29231 (B.A.)	252	..	..	..	655	491	..	261	..	1286
10·22	0·496	+ 0·08	0·13402	9·95296	1·54684	9·53110	102·766	..	...	248	..	..	..	653	..	384	..	..	1287
10·15	0·238	+ 0·08	9·44075	0·19495	1·54588	9·52817	113·328	2044	29335 (B.A.)	270	2301	..	..	658	..	..	..	..	1288
10·13	0·445	+ 0·01	0·03830	0·01066	1·54571	9·52763	106·490	2039	29285 (B.A.)	259	..	..	..	656	..	386	..	..	1289
10·09	0·446	+ 0·04	0·03977	0·01030	1·54517	9·52595	106·503	2040	29303 (B.A.)	263	..	..	..	657	492	387	..	..	1290
+ 10·06	− 0·463	+ 0·07	0·07496	9·99147	1·54479	9·52485	105·335	..	...	265	..	..	..	..	..	..	..	..	1291
9·93	0·435	..	0·00783	0·02759	1·54323	9·52017	107·704	..	...	..	..	..	..	..	..	..	..	..	1292
9·75	0·474	+ 0·01	0·08625	9·98904	1·54092	9·51328	105·282	2052	...	XVI. 2	..	..	..	660	..	390	..	..	1293
9·74	0·284	− 0·36	9·51654	0·17351	1·54076	9·51282	114·685	2058	29500 (B.A.)	9	..	..	381	..	..	..	..	..	1294
9·73	0·448	+ 0·03	0·03185	0·01753	1·54074	9·51277	107·246	2055	29468 (B.A.)	4	..	..	..	661	494	391	262	1786	1295
+ 9·70	− 0·422	+ 0·04	9·96369	0·04866	1·54028	9·51140	109·290	2056	29485 (B.A.)	6	..	XVI. 58	..	662	495	392	..	..	1296
9·70	0·245	− 0·02	9·43553	0·18855	1·54028	9·51140	114·843	2061	29527 (B.A.)	13	2311	..	..	..	..	..	..	..	1297
9·68	0·432	..	9·99131	0·03677	1·54012	9·51094	108·559	..	29490 (B.A.)	..	..	..	..	..	..	..	..	..	1298
9·67	0·432	..	9·99114	0·03695	1·53996	9·51045	108·583	..	...	..	..	..	..	..	..	..	..	..	1299
9·61	− 0·455	+ 0·05	0·04532	0·01199	1·53922	9·50830	106·958	..	29515 (B.A.)	10	..	..	..	..	..	..	..	..	1300
+ 9·61	+ 1·600	..	9·46553	0·22470	1·53916	9·50811	111·173	..	2774 (F.)	..	..	..	..	..	..	..	..	..	1301
9·60	− 0·463	..	0·06100	0·00425	1·53904	9·50776	106·420	..	29518 (B.A.)	..	..	..	..	..	..	..	..	..	1302
9·57	0·022	− 0·07	9·34811	0·21568	1·53874	9·50688	113·828	..	{2740 (F.) / 29641 (B.A.)}	..	2320	..	..	664	..	..	..	..	1303
9·49	0·408	+ 0·13	9·91275	0·06911	1·53771	9·50389	110·872	2065	29573 (B.A.)	21	..	116	..	663	496	393	263	..	1304
9·41	0·421	+ 0·50	9·95095	0·05487	1·53674	9·50109	110·080	2067	29617 (B.A.)	26	..	142	384	665	..	394	..	..	1305
+ 9·35	− 0·455	+ 0·16	0·03763	0·01804	1·53598	9·49888	107·567	..	29631 (B.A.)	28	..	..	..	..	..	..	..	..	1306
9·32	0·464	..	0·05679	0·00924	1·53548	9·49747	106·932	..	...	..	..	..	..	..	..	..	..	..	1307
9·21	0·493	..	0·10660	9·98520	1·53413	9·49368	105·042	..	...	35	..	..	..	..	..	..	..	..	1308
9·21	0·493	+ 0·09	0·10660	9·98523	1·53411	9·49359	105·043	..	...	36	..	..	..	..	..	..	..	..	1309
9·19	0·458	+ 0·12	0·03902	0·01883	1·53387	9·49290	107·739	..	29683 (B.A.)	39	..	..	..	..	..	..	..	..	1310
+ 9·05	− 0·477	− 0·01	0·07489	0·00324	1·53214	9·48804	106·555	2077	29728 (B.A.)	50	..	..	..	668	..	399	..	..	1311
9·03	− 0·471	..	0·06288	0·00917	1·53191	9·48741	107·052	..	...	..	..	..	..	..	..	..	..	..	1312
8·88	+ 0·234	0·00	9·35392	0·21225	1·53000	9·48211	115·348	2096	2764 (F.)	82	2334	..	..	675	..	..	..	..	1313
8·88	− 0·133	..	9·31450	0·19968	1·52991	9·48187	117·014	..	2754 (F.)	..	2332	..	..	..	..	..	..	..	1314
8·87	0·402	− 0·07	9·87204	0·08298	1·52984	9·48169	112·891	2081	...	59	..	..	..	669	..	..	..	..	1315
+ 8·83	− 0·240	− 0·03	9·39655	0·18187	1·52928	9·48014	117·622	2086	29847 (B.A.)	73	2331	..	..	672	..	..	..	..	1316
8·81	0·351	− 0·06	9·69135	0·12922	1·52907	9·47955	115·937	2084	29830 (B.A.)	66	..	..	..	671	499	..	..	1810	1317
8·80	0·463	+ 0·06	0·03918	0·02206	1·52889	9·47907	108·246	2082	29806 (B.A.)	64	..	..	..	670	..	400	265	..	1318
8·74	0·311	− 0·14	9·55919	0·15408	1·52816	9·47709	117·305	2087	29862 (B.A.)	74	..	..	..	674	..	..	..	..	1319
8·71	0·300	+ 0·08	9·52543	0·15944	1·52771	9·47586	117·602	..	29877 (B.A.)	77	..	..	..	676	..	..	..	..	1320

The magnitudes of Stars taken from Argelander are marked with Asterisks. Other magnitudes are taken in the order of preference from the British Association Catalogue of 8377 Stars; from the Catalogue of Lalande published by the British Association; from Weisse's *Catalogus Stellarum ex Zonis Regiomontanis*; or, for the variable stars, from Mr. Pogson's lists in the "Radcliffe Observations, 1854 and 1856." The authorities for any remaining magnitudes are given in the Notes.

No.	Magnitude.	Star's Name.	Mean Right Ascension, 1860, Jan. 1, from Observations, 1854 to 1860.	Mean Year and Fraction of Year.	Number of Observations.	Annual Precession in R.A. for 1860, from Peters' Elements.	Secular Variation of Precession in R.A.	Annual Proper Motion in R.A. from Main or B.A.C.	Logarithms of e	f	g	h	Value of l	Mean North Polar Distance, 1860, Jan. 1, from Observations, 1854 to 1860.	Mean Year and Fraction of Year.	Number of Observations.
			h m s			s	s	s					s	° ′ ″		
1321	5*	5 Ophiuchi ρ (N. Star) .	16. 17. 11·65	1860·3	4	+ 3·586	+ 0·0141	+ 0·002	0·06765	0·05488	1·45616	0·08362	87·807	113. 7. 12·29	1860·0	2
1322	5	5 Ophiuchi ρ (S. Star) .	16. 17. 11·65	1860·3	4	3·586	+ 0·0141	+ 0·002	0·06765	0·05488	1·45616	0·08362	87·807	113. 7. 12·29	1860·0	2
1323	5*	21 Coronæ	16. 17. 12·87	1860·2	3	2·958	+ 0·0032	+ 0·012	0·06637	0·05212	1·43550	0·07205	90·463	55. 58. 7·63	1860·2	3
1324	6*	23 Herculis.....	16. 17. (34·)	..	..	2·999	+ 0·0032	+ 0·004	0·06661	0·05233	1·43615	0·07244	90·345	57. 20. 17·57	1855·4	2
1325	6*	7 Ophiuchi ..... χ	16. 18. 54·79	1860·1	3	3·468	+ 0·0120	— 0·003	0·06820	0·05559	1·45436	0·08253	87·941	108. 8. 6·74	1860·1	3
1326	5*	24 Herculis ..... ω	16. 18. 57·32	1860·3	3	+ 2·763	+ 0·0045	— 0·009	0·06842	0·05605	1·44346	0·07654	89·157	75. 38. 30·26	1860·2	4
1327	5	B. F. 2255.....	16. 20. 10·74	1860·5	2	3·227	+ 0·0086	..	0·06880	0·05655	1·45066	0·08048	88·270	97. 16. 28·96	1860·5	2
1328	5*	3 Ophiuchi ..... υ	16. 20. 13·73	1860·6	3	3·244	+ 0·0088	+ 0·012	0·06878	0·05651	1·45092	0·08062	88·244	98. 3. 18·93	1860·6	1
1329	6·5*	25 Herculis	16. 20. 25·00	1860·4	3	2·134	+ 0·0035	+ 0·001	0·06615	0·05059	1·43352	0·07125	90·780	52. 17. 6·47	1860·4	3
1330	1·2*	21 Scorpii ..... α	16. 20. 49·70	1857·0	50	3·667	+ 0·0151	— 0·001	0·06776	0·05408	1·45738	0·08412	87·721	116. 7. 2·96	1857·0	47
1331	5*	Groombridge 2343...	16. 21. 22·01	1860·5	1	+ 1·302	+ 0·0103	..	0·06102	0·03862	1·42000	0·06427	93·354	34. 28. 31·85	1860·5	1
1332	5*	21 Ursæ Minoris ..... η	16. 21. 38·31	1860·5	3	− 1·832	+ 0·1190	+ 0·005	0·03529	9·97679	1·36489	0·03666	104·181	13. 55. 25·83	1860·5	2
1333	3·2*	Draconis..... η¹	16. 22. 5·86	1856·1	1	+ 0·800	+ 0·0189	..	0·05747	0·02998	1·42161	0·06010	95·007	28. 10.	..	..
1334		14 Draconis..... η²	16. 22. 6·23	1858·1	39	0·800	+ 0·0189	+ 0·023	0·05747	0·02998	1·42161	0·06010	95·007	28. 10. 5·84	1858·1	41
1335	..	.....	16. 22. 8·44	1857·5	1	3·023	+ 0·0063	..	0·06907	0·05662	1·44752	0·07878	88·609	87. 42. 13·94	1857·5	1
1336	4	Normæ..... α	16. 22. 14·47	1856·9	7	+ 3·905	+ 0·0195	— 0·003	0·06691	0·05171	1·46098	0·08596	87·517	124. 23. 43·70	1856·9	7
1337	5*	8 Ophiuchi..... φ	16. 23. 7·82	1859·5	1	3·439	+ 0·0110	− 0·001	0·06875	0·05563	1·45376	0·08207	87·981	106. 11. 18·8	..	..
1338	9	W. B. XVI. 432.....	16. 23. 8·92	1857·5	2	3·024	+ 0·0063	..	0·06917	0·05658	1·44752	0·07878	88·605	87. 43. 25·90	1857·5	2
1339	5*	9 Ophiuchi..... ω	16. 23. 50·52	1856·0	2	3·545	+ 0·0127	+ 0·001	0·06851	0·05489	1·45553	0·08297	87·843	111. 9. 46·51	1856·0	2
1340	4·3*	10 Ophiuchi..... λ	16. 23. 51·27	1858·0	16	3·023	+ 0·0063	0·000	0·06924	0·05655	1·44751	0·07878	88·603	87. 42. 23·59	1857·8	14
1341	5·6*	30 Herculis..... g	16. 24. 2·80	1860·2	4	+ 1·965	+ 0·0041	+ 0·005	0·06573	0·04836	1·43080	0·07019	91·227	47. 48. 29·42	1860·1	3
1342	5·6*	29 Herculis..... h	16. 24. 3·50	1859·5	3	2·816	+ 0·0047	− 0·008	0·06925	0·05596	1·44429	0·07717	89·000	78. 12. 30·85	1859·5	4
1343	3·4*	23 Scorpii..... ν	16. 27. 10·37	1858·3	8	+ 3·723	+ 0·0152	— 0·001	0·06829	0·05333	1·45823	0·08420	87·660	117. 55. 17·84	1858·3	8
1344	5*	15 Draconis ..... Λ	16. 28. 16·48	1860·2	2	− 0·148	+ 0·0043	+ 0·005	0·05203	0·01205	1·39537	0·05388	97·990	20. 55. 4·94	1860·2	2
1345	6*	12 Ophiuchi	16. 29. 0·24	1860·4	2	+ 3·116	+ 0·0069	+ 0·030	0·06975	0·05632	1·44895	0·07951	88·420	92. 1. 19·49	1860·4	2
1346	..	.....	16. 29. 18·74	1855·5	1	+ 3·565	+ 0·0124	..	0·06905	0·05452	1·45583	0·08288	87·813	111. 46. 0·45	1855·5	1
1347	3·2*	13 Ophiuchi ..... ζ	16. 29. 27·14	1857·5	36	3·296	+ 0·0088	+ 0·001	0·06964	0·05593	1·45172	0·08086	88·145	100. 16. 48·41	1857·1	24
1348	4*	35 Herculis..... σ	16. 29. 35·48	1856·3	5	1·932	+ 0·0043	− 0·001	0·06637	0·04774	1·43027	0·07053	91·241	47. 16. 20·28	1856·3	8
1349	..	.....	16. 31. 6·74	1855·4	1	3·890	+ 0·0176	..	0·06810	0·05154	1·46075	0·08518	87·521	123. 27. 41·33	1855·4	1
1350	6*	36 Herculis..... m^1	16. 33. 38·35	1855·0	2	2·975	+ 0·0056	+ 0·004	0·07018	0·05607	1·44676	0·07849	88·649	85. 30. 58·68	1855·0	2
1351	6*	37 Herculis..... m^2	16. 33. 41·83	1855·2	3	+ 2·974	+ 0·0056	+ 0·005	0·07018	0·05606	1·44676	0·07849	88·649	85. 30. 14·38	1855·2	3
1352	6·7	Lacaille 6950.....	16. 34. 38·88	1857·8	9	3·845	+ 0·0161	..	0·06873	0·05189	1·46007	0·08460	87·549	101. 52. 7·01	1857·9	8
1353	5·4*	42 Herculis..... σ	16. 34. 57·08	1859·5	5	1·628	+ 0·0062	+ 0·002	0·06557	0·04333	1·42535	0·06892	92·050	40. 47. 46·46	1859·5	5
1354	6·7	39 Herculis.....	16. 35. 56·14	1854·4	2	2·431	+ 0·0033	+ 0·006	0·06934	0·05310	1·43824	0·07473	89·811	62. 48. 59·15	1854·4	2
1355	3·2*	40 Herculis..... ζ	16. 36. 0·56	1857·7	40	2·296	+ 0·0033	− 0·034	0·06888	0·05183	1·43611	0·07378	90·149	58. 8. 29·28	1856·6	47
1356	6·7	41 Herculis.....	16. 38. 10·96	1856·5	4	+ 2·932	+ 0·0052	− 0·015	0·07061	0·05581	1·44611	0·07824	88·704	83. 38. 23·63	1856·5	4
1357	6·5*	43 Herculis..... i	16. 39. 6·68	1859·4	3	2·877	+ 0·0048	+ 0·001	0·07066	0·05564	1·44252	0·07789	88·802	81. 9. 33·02	1859·4	3
1358	5·6*	18 Draconis ..... g	16. 39. 57·38	1858·8	6	0·396	+ 0·0034	− 0·001	0·05931	0·02226	1·40476	0·06122	95·767	25. 8. 42·43	1858·2	22
1359	3*	26 Scorpii..... ε	16. 41. 6·09	1857·3	22	3·922	+ 0·0162	− 0·051	0·06925	0·05087	1·46123	0·08465	87·485	124. 2. 5·64	1857·3	22
1360	8·9	W. B. XVI. 790.....	16. 41. 25·70	1856·0	2	2·756	+ 0·0041	..	0·07074	0·05510	1·44336	0·07715	89·028	75. 54. 57·83	1856·1	2

1330, 1336, 1343, and 1359. These stars are respectively identical with Lacaille 6853, 6859, 6897, and 6996.

1336. The designation is Lacaille's.

Annual Precession in P.D. for 1860, from Peters' Elements.	Secular Variation of Precession in N.P.D.	Annual Proper Motion in N.P.D. from Main or B.A.C.	Logarithms of e′	f′	n′	h′	Value of l′	No. in Bessel's Tabulæ.	No. in Lalande Fedorenko (F.) 1900, or British Association (B.A.) 1800.	Hour and No. in Piazzi. 1800.	No. in Groombridge. 1820.	Hour and No. in Weisse's Bessel. 1825.	No. in Argelander. 1830.	No. in Pond's 111a. 1830.	No. in First Cambridge Catalogue. 1830.	No. in Johnson's (St. Helena). 1830.	No. in Pulkova. 1830.	No. in Struve. 1830.	No.
"	"	"					"	1755.	1800.	1800.	1820.	1825.	1830.	1830.	1830.	1830.	1830.	1830.	
										XVI.		XVI.							
+ 8·70	− 0·475	− 0·02	0·06247	0·01272	1·52759	9·47556	107·480	2083	29844 (B.A.)	71	..	..	..	673	..	401	..	..	1321
8·70	0·475	− 0·02	0·06247	0·01272	1·52759	9·47556	107·480	2083	29845 (B.A.)	71	..	..	..	673	..	401	..	..	1322
8·70	0·301	+ 0·03	9·52647	0·15917	1·52758	9·47550	117·623	..	29881 (B.A.)	78	..	..	..	677	..	..	..	..	1323
8·67	0·306	+ 0·03	9·54158	0·15633	1·52723	9·47454	117·609	2089	29888 (B.A.)	79	..	..	..	..	..	..	..	1813	1324
8·56	0·461	+ 0·01	0·03902	0·02822	1·52584	9·47083	108·928	2088	29894 (B.A.)	80	..	..	..	678	500	402	266	..	1325
+ 8·56	− 0·368	+ 0·02	9·74468	0·11587	1·52581	9·47077	115·806	2090	29911 (B.A.)	81	..	355	..	679	..	..	..	..	1326
8·46	0·430	..	9·94655	0·05942	1·52456	9·46746	111·739	..	29935 (B.A.)	..	..	374	..	..	..	..	..	..	1327
8·46	0·433	0·00	9·95294	0·05727	1·52449	9·46740	111·560	..	29939 (B.A.)	83	..	376	..	680	501	403	..	..	1328
8·44	0·286	0·00	9·47972	0·16362	1·52430	9·46674	118·563	2093	29977 (B.A.)	91	..	..	..	681	..	..	..	..	1329
8·41	0·489	+ 0·03	0·08383	0·00618	1·52388	9·46562	106·923	2091	29943 (B.A.)	84	..	..	386	681	502	404	267	1819	1330
+ 8·37	− 0·176	..	9·31218	0·18862	1·52333	9·46418	118·951	..	2772 (F.)	..	2343	..	..	..	..	..	..	..	1331
8·35	+ 0·239	− 0·26	9·32838	0·20519	1·52305	9·46347	117·292	2111	2785 (F.)	114	2349	..	387	688	..	..	..	..	1332
8·31	− 0·110	..	9·28511	0·19457	1·52256	9·46219	118·822	..	..	..	..	..	..	..	..	..	..	..	1333
8·31	0·110	− 0·08	9·28511	0·19457	1·52256	9·46219	118·822	2104	2779 (F.)	102	2346	..	..	685	..	..	..	1827	1334
8·31	0·405	..	9·86326	0·08516	1·52252	9·46209	114·124	..	..	..	..	..	..	..	..	..	..	..	1335
+ 8·30	− 0·522	+ 0·08	0·12239	9·98502	1·52241	9·46178	104·736	..	..	92	..	..	..	683	..	405	..	..	1336
8·23	0·460	+ 0·03	0·01682	0·03538	1·52149	9·45941	109·818	2094	30044 (B.A.)	94	..	..	..	684	504	406	268	..	1337
8·23	0·406	..	9·86338	0·08505	1·52147	9·45935	114·270	..	..	..	..	..	432	..	..	..	..	..	1338
8·17	0·476	− 0·03	0·02119	0·02238	1·52076	9·45751	108·576	2095	30033 (B.A.)	96	..	..	..	686	503	407	..	..	1339
8·17	0·406	+ 0·05	9·86314	0·08506	1·52074	9·45748	114·377	2097	30048 (B.A.)	100	..	440	..	687	..	..	..	1829	1340
+ 8·16	− 0·265	− 0·07	9·42292	0·16824	1·52054	9·45697	119·607	2102	..	105	2348	..	..	690	..	..	..	..	1341
7·99	0·380	+ 0·05	9·76908	0·10772	1·51844	9·45156	116·610	2105	30111 (B.A.)	112	..	486	..	691	..	..	..	..	1342
7·90	− 0·503	+ 0·02	0·09583	0·00668	1·51725	9·44859	106·931	2103	..	113	..	..	..	692	..	409	269	..	1343
7·82	+ 0·017	− 0·04	9·26670	0·19422	1·51608	9·44567	119·927	2118	2794 (F.)	135	2359	..	..	693	..	..	..	..	1344
7·76	− 0·422	+ 0·32	9·90244	0·07423	1·51529	9·44372	114·218	2108	30191 (B.A.)	121	..	540	389	693	..	410	..	..	1345
+ 7·73	− 0·483	..	0·05660	0·02410	1·51495	9·44289	108·885	..	..	..	..	..	..	..	..	..	..	..	1346
7·72	0·447	− 0·03	9·97211	0·05357	1·51485	9·44256	112·083	2109	30198 (B.A.)	132	..	546	..	694	508	411	..	..	1347
7·71	0·264	− 0·05	9·46620	0·16460	1·51466	9·44215	120·939	2113	30238 (B.A.)	132	2358	..	..	696	..	..	..	1842	1348
7·59	0·529	..	0·12985	9·99625	1·51303	9·43823	105·541	..	..	..	..	..	..	..	..	..	..	..	1349
7·38	0·407	− 0·01	9·84180	0·08948	1·51028	9·43164	116·302	2116	30335 (B.A.)	147	..	642	..	..	..	..	..	..	1350
+ 7·38	− 0·407	+ 0·03	9·84161	0·08950	1·51021	9·43149	116·317	2117	30339 (B.A.)	149	..	643	..	..	..	..	..	1847	1351
7·30	0·526	..	0·12143	0·00350	1·50917	9·42902	106·262	..	..	..	..	..	..	..	..	..	..	..	1352
7·27	0·225	− 0·01	9·32428	0·16865	1·50884	9·42825	122·432	2128	..	163	2368	..	..	..	..	..	..	1852	1353
7·19	0·334	+ 0·02	9·58838	0·13476	1·50776	9·42575	120·920	2125	30427 (B.A.)	164	..	..	..	..	..	..	..	..	1354
7·19	0·316	− 0·45	9·52982	0·14272	1·50767	9·42553	121·523	2127	30433 (B.A.)	165	..	..	392	699	512	..	..	1854	1355
+ 7·01	− 0·404	+ 0·16	9·82269	0·09299	1·50527	9·42002	117·424	2130	30480 (B.A.)	169	..	731	393	..	..	..	..	..	1356
6·93	0·397	− 0·04	9·79734	0·09798	1·50423	9·41771	118·135	2131	30512 (B.A.)	175	..	750	..	701	..	..	..	1861	1357
6·86	0·057	+ 0·02	9·21775	0·17891	1·50330	9·41562	123·381	2141	2817 (F.) 30611 (B.A.)	197	2375	..	..	703	..	..	..	..	1358
6·77	0·541	+ 0·33	0·13586	0·00481	1·50199	9·41271	105·951	2132	..	184	..	..	..	702	..	415	272	..	1359
6·74	0·382	..	9·74028	0·10782	1·50163	9·41191	119·663	..	30579 (B.A.)	..	..	790	..	..	..	..	..	..	1360

The magnitudes of Stars taken from Argelander are marked with Asterisks. Other magnitudes are taken in the order of preference from the British Association Catalogue of 8377 Stars; from the Catalogue of Lalande published by the British Association; from Weisse's *Catalogus Stellarum ex Zonis Regiomontanis*; or, for the variable stars, from Mr. Pogson's lists in the "Madeliffe Observations, 1854 and 1856." The authorities for any remaining magnitudes are given in the Notes.

No.	Magnitude.	Star's Name.	Mean Right Ascension, 1860, Jan. 1, from Observations, 1854 to 1860.	Mean Year and Fraction of Year.	Number of Observations.	Annual Precession in R.A. for 1860, from Peters' Elements.	Secular Variation of Precession in R.A.	Annual Proper Motion in R.A. from Main or B.A.C.	Logarithms of e	Logarithms of f	Logarithms of g	Logarithms of h	Value of l	Mean North Polar Distance, 1860, Jan. 1, from Observations, 1854 to 1860.	Mean Year and Fraction of Year.	Number of Observations.
			h m s			s	s	s					s	° ′ ″		
1361	7	B. F. 2316	16. 41. 31·19	1855·2	3	+ 2·819	+0·0044	..	0·07084	0·05535	1·44433	0·07754	88·904	78. 37. 4·71	1855·2	3
1362	5*	20 Ophiuchi	16. 42. 5·49	1859·8	3	3·306	+0·0080	+ 0·004	0·07092	0·05541	1·45188	0·08068	88·092	100. 31. 54·63	1859·8	3
1363	5	Groombridge 2377	16. 42. 38·68	1860·0	4	1·127	+0·0109	..	0·06424	0·03519	1·41709	0·06668	93·404	32. 58. 0·31	1860·0	4
1364	6·5*	47 Herculis *k*	16. 43. 31·63	1859·5	5	2·906	+0·0048	+ 0·005	0·07113	0·05556	1·44570	0·07815	88·723	82. 30. 27·89	1859·5	5
1365	6*	21 Ophiuchi	16. 44. 19·06	1854·8	8	3·040	+0·0057	0·000	0·07128	0·05572	1·44777	0·07898	88·486	88. 32. 32·25	1855·5	3
1366	4·5*	52 Herculis	16. 45. 8·36	1860·5	4	+ 1·750	+0·0050	− 0·005	0·06784	0·04482	1·42733	0·07102	91·513	43. 46. 15·66	1860·5	4
1367	6*	50 Herculis	16. 45. 11·14	1860·1	3	2·339	+0·0033	0·000	0·07015	0·05194	1·43679	0·07469	89·943	59. 57. 7·66	1860·1	3
1368	7	Lacaille 7047	16. 46. 24·21	1856·4	1	3·873	+0·0145	..	0·07007	0·05122	1·46049	0·08396	87·515	122. 16. 16·71	1856·4	1
1369	6*	23 Ophiuchi	16. 47. 6·87	1854·4	2	3·204	+0·0068	− 0·004	0·07152	0·05551	1·45031	0·07997	88·216	95. 55. 18·81	1854·4	2
1370	5*	53 Herculis	16. 47. 39·61	1859·5	5	2·280	+0·0033	− 0·012	0·07026	0·05128	1·43584	0·07448	90·064	58. 3. 51·53	1859·5	5
1371	3·4*	27 Ophiuchi κ	16. 51. 2·56	1857·3	62	+ 2·856	+0·0044	− 0·023	0·07187	0·05516	1·44492	0·07798	88·771	80. 24. 15·95	1857·1	30
1372	7	Bradley 2153	16. 51. 23·66	1855·5	1	3·664	+0·0110	0·000	0·07126	0·05299	1·45734	0·08247	87·673	114. 52. 33·50	1855·5	1
1373	6	26 Ophiuchi	16. 51. 35·20	1856·4	8	3·662	+0·0109	+ 0·001	0·07129	0·05301	1·45730	0·08245	87·673	114. 46. 17·72	1856·4	8
1374	..	......	16. 51. 39·36	1856·5	2	3·359	+0·0078	..	0·07185	0·05488	1·45270	0·08078	87·993	102. 40. 31·35	1856·5	2
1375	6·7	B. F. 2343	16. 53. 39·92	1854·4	2	2·919	+0·0046	..	0·07219	0·05525	1·44590	0·07836	88·641	83. 12. 12·01	1854·4	2
1376	3·4*	58 Herculis ε	16. 54. 56·10	1859·8	11	+ 2·297	+0·0032	− 0·005	0·07121	0·05124	1·43611	0·07508	89·941	58. 51. 54·94	1859·7	17
1377	6*	B. F. 2345	16. 55. 11·27	1854·5	2	2·724	+0·0038	..	0·07215	0·05449	1·44286	0·07735	88·997	74. 50. 34·66	1854·5	2
1378	5*	19 Draconis h^1	16. 55. 15·83	1860·6	3	0·274	+0·0215	+ 0·033	0·06275	0·01974	1·40267	0·06427	95·636	24. 39. 3·42	1860·6	3
1379	5	Piazzi XVI. 268	16. 55. 37·05	1856·7	14	3·936	+0·0137	− 0·007	0·07104	0·05032	1·46144	0·08365	87·453	123. 55. 15·00	1856·7	14
1380	5*	59 Herculis *d*	16. 56. 26·40	1859·5	3	2·212	+0·0033	− 0·006	0·07116	0·05034	1·43476	0·07474	90·128	56. 13. 35·62	1859·5	3
1381	6	Piazzi XVI. 277	16. 56. 48·02	1854·7	10	+ 3·320	+0·0070	− 0·002	0·07244	0·05487	1·45209	0·08044	88·024	100. 53. 18·96	1855·0	4
1382	5*	60 Herculis	16. 58. 53·20	1859·5	3	+ 2·776	+0·0039	+ 0·007	0·07260	0·05462	1·44367	0·07772	88·871	77. 3. 49·50	1859·5	3
1383	4·5*	22 Ursæ Minoris ε	17. 0. 26·78	1857·3	52	− 6·437	+0·3026	+ 0·009	0·03048	9·85805	1·26866	0·03099	116·027	7. 44. 19·15	1857·0	81
1384	2·3*	35 Ophiuchi η	17. 2. 21·08	1856·8	49	+ 3·432	+0·0074	+ 0·001	0·07291	0·05422	1·45381	0·08085	87·872	105. 32. 52·25	1857·1	26
1385	5*	Piazzi XVII. 3	17. 3. 4·34	1859·5	3	2·126	+0·0034	− 0·002	0·07177	0·04922	1·43339	0·07483	90·256	53. 52. 51·18	1859·5	3
1386	6*	37 Ophiuchi	17. 5. 51·89	1859·5	4	+ 2·825	+0·0038	+ 0·002	0·07340	0·05462	1·44444	0·07811	88·731	79. 14. 31·79	1859·5	4
1387	8	Lalande (F.) 2891	17. 6. 21·86	1860·5	1	− 11·465	+0·6657	..	0·01143	9·67473	1·13146	0·01167	130·589	5. 6. 45·18	1860·5	1
1388	..	Ophiuchi A^1	17. 6. 44·47	1857·6	12	+ 3·718	+0·0094	− 0·037	0·07293	0·05215	1·45815	0·08193	87·588	116. 23. 35·06	1857·7	12
1389	..	Ophiuchi A^2	17. 6. 44·66	1857·8	9	3·718	+0·0094	− 0·037	0·07293	0·05215	1·45815	0·08193	87·588	116. 23. 31·26	1857·8	9
1390	5*	{ 36 Ophiuchi (as one mass) } A	17. 6. 44·67	1857·4	1	3·718	+0·0094	− 0·037	0·07293	0·05215	1·45815	0·08193	87·588	116. 24.	..	..
1391	..	......	17. 7. 27·82	1854·4	1	+ 3·463	+0·0072	..	0·07342	0·05393	1·45428	0·08082	87·822	106. 42. 42·47	1854·4	1
1392	9	W. B. XVII. 106	17. 7. 30·32	1856·5	4	3·099	+0·0049	..	0·07367	0·05502	1·44869	0·07930	88·274	91. 10. 58·60	1856·5	4
1393	7	30 Scorpii	17. 7. 37·18	1858·7	8	3·717	+0·0092	− 0·036	0·07304	0·05214	1·45814	0·08188	87·585	116. 20. 25·21	1858·7	8
1394	5·6	Piazzi XVII. 23	17. 7. 57·55	1856·5	2	3·902	+0·0110	− 0·005	0·07270	0·05037	1·46092	0·08262	87·450	122. 29. 59·02	1856·5	2
1395	Var.*	64 Herculis α^1	17. 8. 15·92	1856·5	57	2·734	+0·0035	− 0·003	0·07357	0·05419	1·44301	0·07778	88·879	75. 26. 50·25	1857·4	55
1396	8	Herculis α^2	17. 8. 16·24	1855·1	4	+ 2·734	+0·0035	..	0·07357	0·05419	1·44301	0·07778	88·879	75. 26. 52·77	1855·0	5
1397	3*	22 Draconis ζ	17. 8. 23·15	1860·6	1	0·160	+0·0193	+ 0·002	0·06580	0·01744	1·40071	0·06698	95·525	24. 6. 46·25	1860·6	1
1398	8·9	W.B. XVII. 127	17. 8. 31·64	1855·5	3	3·098	+0·0048	..	0·07377	0·05500	1·44867	0·07929	88·271	91. 7. 52·94	1855·5	3
1399	..	......	17. 8. 49·46	1854·4	1	3·456	+0·0070	..	0·07358	0·05394	1·45417	0·08075	87·822	106. 23. 22·44	1854·4	1
1400	5*	41 Ophiuchi	17. 9. 25·50	1859·4	3	3·079	+0·0047	+ 0·005	0·07387	0·05497	1·44837	0·07920	88·297	90. 17. 3·49	1859·4	3

1372, 1373, 1379, 1390, 1393, and 1394. These stars are respectively identical with Lacaille 7082, 7085, 7109, 7192, 7203, and 7202.
1383 and 1387. These stars are respectively identical with Schwerd 1007 and 1019.
1387. The magnitude has been taken from the Radcliffe Catalogue 1845.
1395. The maximum magnitude is about 3.

Annual Precession in N.P.D. for 1860, from Peters' Elements.	Secular Variation of Precession in N.P.D.	Annual Proper Motion in N.P.D. from Main or B.A.C.	Logarithms of c′	Logarithms of f′	Logarithms of g′	Logarithms of h′	Value of l′	No. in Bessel's Bradley. 1755.	No. in Lalande Fedorenko (F.) 1790, or British Association (B.A.) 1800.	Hour and No. in Piazzi. 1800.	No. in Groombridge. 1810.	Hour and No. in Weisse's Bessel. 1825.	No. in Argelander. 1830.	No. in Pond's 1112. 1830.	No. in First Cambridge Catalogue. 1830.	No. in Johnson's (St. Helena). 1830.	No. in Fallows. 1830.	No. in Struve. 1830.	No.
″	″	″					″			XVI.		XVI.							
+ 6·74	− 0·390	..	9·76989	0·10253	1·50153	9·41173	119·092	..	30580 (B.A.)	..	..	791	..	..	..	..	..	..	1361
6·69	0·458	+ 0·08	9·97575	0·05654	1·50089	9·41030	113·426	2138	30583 (B.A.)	191	..	797	..	704	513	417	..	..	1362
6·64	0·158	..	9·23603	0·16962	1·50025	9·40894	124·371	..	{ 2821 (F.) 30662 (B.A.) }	..	2377	..	..	..	..	..	..	..	1363
6·57	0·403	− 0·02	9·81057	0·09439	1·49928	9·40684	118·505	2139	30637 (B.A.)	207	..	833	..	..	..	..	..	..	1364
6·50	0·422	0·00	9·87058	0·08214	1·49836	9·40487	117·082	2140	30656 (B.A.)	210	..	848	..	705	..	..	..	1877	1365
+ 6·44	− 0·245	+ 0·07	9·33405	0·15586	1·49742	9·40293	124·768	2149	30709 (B.A.)	224	2380	..	..	707	..	..	..	..	1366
6·43	0·326	0·00	9·54419	0·13372	1·49736	9·40282	123·195	2145	30692 (B.A.)	221	..	..	..	706	..	..	..	..	1367
6·33	0·539	..	0·12701	0·01346	1·49597	9·39989	106·845	..	...	..	..	..	..	..	..	..	..	..	1368
6·27	0·447	+ 0·09	9·93767	0·06735	1·49514	9·39819	115·369	2146	30733 (B.A.)	227	..	..	..	708	514	420	..	..	1369
6·23	0·319	0·00	9·51706	0·13487	1·49450	9·39690	123·968	2151	30774 (B.A.)	238	..	..	396	710	..	..	..	..	1370
+ 5·94	− 0·400	− 0·02	9·78732	0·09672	1·49056	9·38902	120·190	2156	30861 (B.A.)	252	..	..	398	711	..	..	..	..	1371
5·92	0·513	+ 0·16	0·08225	0·03177	1·49018	9·38824	109·679	2153	30843 (B.A.)	248	..	..	397	..	..	..	..	..	1372
5·90	0·513	+ 0·14	0·08149	0·03212	1·48994	9·38778	109·738	2155	30850 (B.A.)	249	..	..	..	..	..	..	..	..	1373
5·89	0·471	..	9·99414	0·05518	1·48987	9·38766	113·772	..	...	..	..	..	..	..	..	..	..	..	1374
5·73	0·410	..	9·81664	0·09124	1·48749	9·38313	119·855	..	30930 (B.A.)	..	..	1008	..	..	..	..	..	..	1375
+ 5·62	− 0·324	− 0·04	9·52153	0·12866	1·48597	9·38030	125·330	2161	30996 (B.A.)	272	..	..	..	713	..	..	..	1887	1376
5·60	0·384	..	9·72436	0·10480	1·48567	9·37970	122·215	..	30989 (B.A.)	..	..	..	..	..	..	..	..	..	1377
5·59	0·041	− 0·03	9·16465	0·16238	1·48559	9·37954	127·312	2169	{ 2852 (F.) 31061 (B.A.) }	286	2396	..	..	714	..	..	..	1893	1378
5·56	0·554	+ 0·05	0·13862	0·01924	1·48516	9·37878	106·816	..	...	268	..	..	..	712	..	422	..	..	1379
5·49	0·313	− 0·03	9·48387	0·13103	1·48418	9·37701	126·032	2165	31044 (B.A.)	280	..	..	..	715	..	..	..	..	1380
+ 5·46	− 0·468	+ 0·13	9·98028	0·06017	1·48374	9·37619	114·897	..	31023 (B.A.)	277	..	1064	..	..	..	..	..	..	1381
5·29	− 0·393	− 0·02	9·74912	0·10002	1·48123	9·37170	122·269	2167	...	293	..	1109	..	716	..	..	..	1895	1382
5·15	+ 0·905	− 0·01	9·26482	0·16274	1·47933	9·36842	127·013	2201	2877 (F.)	XVII. 36	2422	..	..	720	..	..	..	1908	1383
4·99	− 0·487	− 0·12	0·01766	0·05434	1·47700	9·36450	113·853	2171	31191 (B.A.)	XVI. 306	..	..	401	717	517	425	276	..	1384
4·93	0·303	+ 0·02	9·44436	0·12869	1·47612	9·36303	127·738	..	31259 (B.A.)	XVII. 3	..	..	..	719	..	..	..	..	1385
+ 4·69	− 0·403	+ 0·01	9·77262	0·09470	1·47266	9·35749	122·773	2178	31309 (B.A.)	16	..	..	..	721	..	..	..	..	1386
4·65	+ 1·625	..	9·28421	0·15563	1·47203	9·35650	128·155	..	2891 (F.)	..	..	..	..	..	..	..	..	..	1387
4·62	− 0·530	+ 1·12	0·09482	0·04045	1·47156	9·35577	110·246	..	...	..	..	..	..	..	518	..	..	..	1388
4·62	0·530	+ 1·12	0·09482	0·04045	1·47156	9·35577	110·246	..	...	..	..	..	..	..	519	..	..	..	1389
4·62	0·530	+ 1·12	0·09482	0·04045	1·47156	9·35577	110·246	2176	31311 (B.A.)	17	..	..	..	722	..	426	..	..	1390
+ 4·56	− 0·494	..	0·02715	0·05486	1·47068	9·35445	113·897	..	...	..	..	..	..	..	..	..	..	..	1391
4·55	0·442	..	9·89559	0·07748	1·47062	9·35436	119·341	..	...	..	..	XVII. 106	..	..	..	..	..	..	1302
4·54	0·530	+ 1·15	0·09454	0·04119	1·47047	9·35410	110·330	2179	...	21	..	..	..	..	520	..	..	..	1393
4·51	0·556	− 0·10	0·13274	0·03304	1·47004	9·35345	108·027	..	...	23	..	..	..	..	..	..	..	..	1394
4·49	0·391	− 0·04	9·72843	0·09907	1·46966	9·35289	124·195	2183	31365 (B.A.)	29	..	125	402	723	521	..	..	1917	1395
+ 4·49	− 0·391	..	9·72843	0·09907	1·46966	9·35289	124·195	..	...	..	..	126	..	..	..	..	..	..	1396
4·48	0·025	− 0·01	9·12385	0·14729	1·46950	9·35263	130·576	2193	{ 2879 (F.) 31445 (B.A.) }	42	2428	..	..	726	..	..	..	..	1397
4·47	0·442	..	9·89509	0·07758	1·46934	9·35241	119·486	..	...	..	..	127	..	..	..	..	..	..	1398
4·44	0·493	..	0·02481	0·05596	1·46897	9·35186	114·139	..	...	..	..	..	..	..	..	..	..	..	1399
4·39	0·440	+ 0·06	9·88700	0·07879	1·46819	9·35072	119·881	2184	31391 (B.A.)	34	..	142	..	724	..	427	..	..	1400

The magnitudes of Stars taken from Argelander are marked with Asterisks. Other magnitudes are taken in the order of preference from the British Association Catalogue of 8377 Stars; from the Catalogue of Lalande published by the British Association; from Weisse's *Catalogus Stellarum ex Zonis Regiomontanis*; or, for the variable stars, from Mr. Pogson's lists in the "Radcliffe Observations, 1854 and 1856." The authorities for any remaining magnitudes are given in the Notes.

No.	Magnitude.	Star's Name.	Mean Right Ascension, 1860, Jan. 1, from Observations, 1854 to 1860.	Mean Year and Fraction of Year.	Number of Observations.	Annual Precession in R.A. for 1860, from Peters' Elements.	Secular Variation of Precession in R.A.	Annual Proper Motion in R.A. from Main or B.A.C.	Logarithms of e	Logarithms of f	Logarithms of g	Logarithms of h	Value of l	Mean North Polar Distance, 1860, Jan. 1, from Observations, 1854 to 1860.	Mean Year and Fraction of Year.	Number of Observations.
			h m s			s	s	s					s	° ′ ″		
1401	5*	40 Ophiuchi .... ξ	17. 12. 36·96	1859·4	4	+ 3·573	+0·0074	+0·017	0·07385	0·05313	1·45596	0·08108	87·694	110. 57. 30·40	1859·4	4
1402	5*	69 Herculis.......... e	17. 12. 50·62	1859·5	3	2·070	+0·0033	−0·001	0·07293	0·04837	1·43249	0·07540	90·260	52. 33. 34·88	1859·5	3
1403	5·4*	53 Serpentis......... ν	17. 12. 57·25	1859·4	4	3·367	+0·0060	+0·001	0·07411	0·05427	1·45281	0·08029	87·903	102. 42. 4·61	1859·4	4
1404	7	Bradley 2188	17. 13. 6·55	1857·7	3	3·676	+0·0081	−0·002	0·07375	0·05235	1·45752	0·08144	87·603	114. 45. 41·36	1857·3	1
1405	3·4*	42 Ophiuchi......... θ	17. 13. 24·86	1857·2	43	3·679	+0·0081	−0·003	0·07379	0·05232	1·45756	0·08143	87·599	114. 51. 20·47	1857·6	28
1406	6	43 Ophiuchi...........	17. 14. 33·12	1856·3	10	+ 3·769	+0·0087	+0·003	0·07377	0·05153	1·45892	0·08170	87·526	118. 0. 9·85	1856·3	10
1407	5*	44 Ophiuchi......... b	17. 17. 49·26	1856·2	2	+ 3·658	+0·0074	−0·002	0·07431	0·05240	1·45725	0·08114	87·603	114. 2. 32·54	1856·2	2
1408	6	Groombridge 2437...	17. 18. 24·46	1860·5	3	− 0·960	+0·0328	..	0·06490	9·99500	1·38093	0·06562	98·330	18. 3. 46·49	1860·5	7
1409	5*	45 Ophiuchi......... d	17. 18. 25·10	1858·7	14	+ 3·823	+0·0085	−0·002	0·07414	0·05096	1·45974	0·08166	87·473	119. 44. 9·81	1858·7	14
1410	5*	49 Ophiuchi......... σ	17. 19. 34·14	1856·8	68	2·974	+0·0038	+0·001	0·07492	0·05468	1·44675	0·07887	88·392	85. 44. 4·83	1856·6	46
1411	5*	51 Ophiuchi .... c^2	17. 22. 52·55	1854·5	10	+ 3·655	+0·0067	0·000	0·07491	0·05233	1·45721	0·08090	87·587	113. 51. 0·74	1854·5	3
1412	6	B. A. C. 5917	17. 23. (52.)	..	..	0·770	+0·0090	..	0·07150	0·02844	1·41111	0·07252	93·367	29. 50. 0·73	1858·6	2
1413	5*	76 Herculis .... λ	17. 25. 4·84	1859·4	4	2·421	+0·0028	−0·001	0·07508	0·05175	1·43809	0·07737	89·337	63. 46. 53·07	1859·4	4
1414	5·6	B. A. C. 5925	17. 25. 33·85	1856·5	6	3·914	+0·0079	..	0·07488	0·04994	1·46110	0·08148	87·394	122. 28. 48·88	1856·5	5
1415	3·2*	23 Draconis .... β	17. 27. 16·32	1858·6	45	1·353	+0·0051	−0·003	0·07352	0·03817	1·42083	0·07470	91·776	37. 35. 37·29	1858·5	44
1416	2*	55 Ophiuchi .... α	17. 28. 26·22	1856·7	105	+ 2·774	+0·0031	+0·004	0·07577	0·05397	1·44364	0·07843	88·650	77. 20. 6·26	1856·7	101
1417	6	Groombridge 2444...	17. 28. 40·98	1856·6	1	1·907	+0·0033	..	0·07478	0·04611	1·42986	0·07628	90·414	48. 39. 19·75	1856·6	1
1418	4*	{ 24 Draconis........ ν^1	17. 29. 25·27	1859·5	3	1·160	+0·0058	+0·030	0·07351	0·03503	1·41763	0·07452	92·218	34. 43. 7·63	1859·5	3
1419		{ 25 Draconis........ ν^2	17. 29. 30·72	1859·5	3	1·160	+0·0058	+0·017	0·07353	0·03504	1·41764	0·07453	92·215	34. 43. 49·16	1859·5	3
1420	4·3*	55 Serpentis .... ξ	17. 29. 34·27	1860·2	4	3·435	+0·0048	−0·004	0·07586	0·05366	1·45385	0·08005	87·759	105. 18. 22·62	1860·2	4
1421	5·4*	57 Ophiuchi.......... μ	17. 30. 14·16	1859·5	3	+ 3·259	+0·0041	+0·002	0·07601	0·05433	1·45116	0·07963	87·944	98. 1. 47·89	1859·5	3
1422	7	Piazzi XVII. 162....	17. 30. 53·80	1857·5	2	3·905	+0·0068	+0·009	0·07556	0·04997	1·46097	0·08110	87·381	122. 7. 4·33	1857·5	2
1423	..	......	17. 31. 3·65	1858·4	1	3·906	+0·0068	..	0·07557	0·04994	1·46099	0·08109	87·382	122. 10. 28·91	1858·4	1
1424	7	Piazzi XVII. 167 ...	17. 31. 51·17	1858·5	3	+ 3·906	+0·0067	−0·023	0·07567	0·04994	1·46098	0·08103	87·381	122. 8. 4·76	1858·5	3
1425	5·6*	27 Draconis .... f	17. 32. 31·79	1859·5	3	− 0·251	+0·0153	−0·007	0·07133	9·00930	1·39356	0·07190	95·796	21. 46. 34·03	1859·5	7
1426	5·4*	56 Serpentis......... o	17. 33. 32·83	1854·5	13	+ 3·374	+0·0042	−0·008	0·07632	0·05389	1·45291	0·07982	87·802	102. 47. 47·24	1854·6	3
1427	5*	58 Ophiuchi..........	17. 35. 2·56	1859·5	2	3·599	+0·0048	−0·010	0·07635	0·05258	1·45634	0·08022	87·587	111. 36. 41·07	1859·5	2
1428	3*	60 Ophiuchi......... β	17. 36. 33·42	1856·9	73	+ 2·964	+0·0030	−0·005	0·07670	0·05440	1·44660	0·07898	88·292	85. 22. 15·59	1857·2	51
1429	7	29 Draconis	17. 36. 33·56	1854·5	2	− 1·663	+0·0279	−0·010	0·06997	9·97985	1·36804	0·07032	99·365	15. 41. 15·82	1854·5	2
1430	5*	28 Draconis .... ω	17. 37. 46·42	1858·9	3	− 0·363	+0·0139	+0·003	0·07266	0·00705	1·39159	0·07310	95·891	21. 10. 39·78	1857·5	39
1431	5*	3 Sagittarii...........	17. 38. 44·94	1856·7	9	+ 3·773	+0·0049	−0·010	0·07665	0·05115	1·45899	0·08036	87·439	117. 46. 23·62	1856·7	9
1432	4·3*	62 Ophiuchi......... γ	17. 40. 52·39	1854·5	12	3·008	+0·0029	−0·007	0·07717	0·05442	1·44728	0·07909	88·199	87. 14. 11·51	1854·5	3
1433	3·4*	86 Herculis .... μ	17. 40. 58·86	1858·0	54	2·369	+0·0026	−0·026	0·07691	0·05111	1·43727	0·07813	89·263	62. 11. 42·28	1857·7	57
1434	6*	87 Herculis	17. 43. 8·64	1860·4	4	+ 2·431	+0·0025	0·000	0·07721	0·05163	1·43824	0·07833	89·122	64. 19. 40·63	1860·5	6
1435	4·5*	31 Draconis ψ^1 (1st Star)	17. 44. 26·19	1858·3	9	− 1·087	+0·0154	−0·002	0·07379	9·99221	1·37864	0·07405	97·470	17. 47. 0·88	1857·5	14
1436	4·5*	Draconis ψ^1 (2d Star)	17. 44. 27·93	1857·6	6	− 1·089	+0·0154	+0·001	0·07380	9·99221	1·37860	0·07405	97·472	17. 46. 31·32	1857·9	6
1437	6	Piazzi XVII. 265 ...	17. 45. 16·88	1854·5	12	+ 3·328	+0·0031	−0·003	0·07760	0·05395	1·45222	0·07948	87·787	100. 51. 41·23	1854·5	4
1438	6*	89 Herculis	17. 49. 46·38	1859·7	10	2·418	+0·0024	+0·001	0·07799	0·05148	1·43804	0·07866	89·070	63. 55. 30·68	1859·7	15
1439	5	Piazzi XVII. 294 ...	17. 50. 5·92	1858·8	3	3·851	+0·0033	+0·003	0·07798	0·05035	1·46015	0·07979	87·348	120. 14. 3·46	1858·8	3
1440	5*	4 Sagittarii...........	17. 51. 14·82	1857·4	2	3·661	+0·0028	−0·005	0·07818	0·05200	1·45729	0·07959	87·468	113. 47. 56·30	1857·4	2

1404, 1405, 1406, 1407, 1409, 1411, 1422, 1431, 1439, and 1440. These stars are respectively identical with Lacaille 7250, 7254, 7260, 7289, 7293, 7333, 7382, 7440, 7521, and 7526.
1408, and 1429. These stars are identical with Schwerd 1022, and 1040.
1422. The magnitude has been taken from Piazzi.

Annual Precession in N.P.D. for 1860, from Peters' Elements.	Secular Variation of Precession in N.P.D.	Annual Proper Motion in N.P.D. from Main or B.A.C.	Logarithms of e′	Logarithms of f′	Logarithms of g′	Logarithms of h′	Value of l′	No. in Bessel's Bradley. 1755.	No. in Lalande Fedorenko (F.) 1790, or British Association (B.A.) 1800.	Hour and No. in Piazzi. 1800.	No. in Groombridge. 1810.	Hour and No. in Weisse's Bessel. 1825.	No. in Argelander. 1830.	No. in Pond's 1112. 1830.	No. in First Cambridge Catalogue. 1830.	No. in Johnson's (St. Helena). 1830.	No. in Fallows. 1830.	No. in Struve. 1830.	No.
″	″	″					″			XVII.		XVII.							
+ 4·12	−0·512	+ 0·21	0·05881	0·05175	1·46415	9·34498	112·738	2186	31464 (B.A.)	47	..	..	404	728	523	428	..	..	1401
4·10	0·297	− 0·11	9·41564	0·12194	1·46385	9·34454	129·943	2195	31532 (B.A.)	59	..	..	405	732	..	..	..	..	1402
4·09	0·483	− 0·05	9·99647	0·06265	1·46372	9·34441	115·891	2190	31490 (B.A.)	52	..	210	..	730	524	431	..	1925	1403
4·07	0·527	+ 0·10	0·08501	0·04723	1·46351	9·34409	111·313	2188	31487 (B.A.)	51	..	..	..	..	..	..	..	..	1404
4·05	0·527	− 0·02	0·08561	0·04734	1·46312	9·34356	111·301	2189	31495 (B.A.)	53	..	..	..	731	..	432	..	..	1405
+ 3·95	−0·541	0·00	0·10626	0·04435	1·46166	9·34165	110·151	2192	31533 (B.A.)	60	..	..	..	733	..	..	..	..	1406
3·67	−0·526	+ 0·12	0·08066	0·05133	1·45743	9·33624	111·935	2198	31661 (B.A.)	83	..	..	..	734	..	..	..	..	1407
3·62	+0·136	..	9·11494	0·13724	1·45668	9·33534	132·695	..	2889 (F.)	..	2437	..	..	..	..	..	..	..	1408
3·62	−0·550	+ 0·18	0·11760	0·04552	1·45666	9·33529	109·709	2200	...	86	..	..	..	735	..	435	..	..	1409
3·52	0·429	− 0·02	9·84142	0·08388	1·45515	9·33352	122·709	2206	...	103	..	..	..	737	..	..	..	..	1410
+ 3·23	−0·528	+ 0·05	0·07998	0·05492	1·45077	9·32856	112·367	2209	31824 (B.A.)	115	..	..	..	739	..	438	..	..	1411
3·15	0·112	..	9·10517	0·12587	1·44946	9·32717	134·321	..	...	..	..	..	..	..	..	..	..	..	1412
3·04	0·350	− 0·03	9·57287	0·10279	1·44783	9·32549	130·032	2213	31950 (B.A.)	136	..	..	..	741	..	..	..	..	1413
3·00	0·566	..	0·13513	0·04907	1·44719	9·32483	109·001	..	...	..	..	..	..	..	..	..	..	..	1414
2·85	0·197	0·00	9·17898	0·11817	1·44488	9·32258	134·729	2221	{ 2896 (F.) 32053 (B.A.) }	155	2443	..	408	742	526	..	..	..	1415
+ 2·75	−0·402	+ 0·20	9·74772	0·08995	1·44332	9·32117	126·721	2218	32049 (B.A.)	153	..	532	409	743	527	..	..	1960	1416
2·73	0·277	..	9·34203	0·11058	1·44298	9·32084	133·745	..	32082 (B.A.)	..	2444	..	..	..	..	..	..	..	1417
2·67	0·169	− 0·06	9·14051	0·11704	1·44196	9·31993	135·390	2222	32131 (B.A.)	168	2445	..	410	746	..	..	..	..	1418
2·66	0·169	− 0·03	9·14082	0·11695	1·44187	9·31984	135·402	2224	32140 (B.A.)	169	2446	..	411	747	..	..	..	1964	1419
2·66	0·498	+ 0·04	0·01828	0·06635	1·44178	9·31974	116·392	2217	...	157	..	549	..	744	528	441	282	..	1420
+ 2·60	−0·472	− 0·01	9·95852	0·07258	1·44087	9·31893	119·403	2220	32088 (B.A.)	161	..	565	..	745	529	442	..	..	1421
2·54	0·566	+ 0·06	0·13351	0·05410	1·43996	9·31817	109·436	..	...	162	..	..	..	..	..	..	..	..	1422
2·53	0·566	..	0·13379	0·05421	1·43976	9·31802	109·425	..	...	..	..	..	..	..	..	..	..	..	1423
2·46	0·566	+ 0·07	0·13367	0·05492	1·43868	9·31711	109·481	..	...	167	..	..	..	..	..	..	..	..	1424
2·40	0·035	− 0·11	9·06856	0·11764	1·43774	9·31634	136·236	2234	{ 2899 (F.) 32312 (B.A.) }	198	2451	..	..	749	..	..	..	..	1425
+ 2·31	−0·490	+ 0·04	9·99870	0·06984	1·43631	9·31524	117·776	2225	32209 (B.A.)	184	..	647	..	748	530	445	..	..	1426
2·18	0·523	− 0·04	0·06551	0·06445	1·43423	9·31369	114·169	2226	32257 (B.A.)	192	..	..	..	750	..	446	..	..	1427
2·05	−0·431	− 0·17	9·83702	0·08216	1·43214	9·31224	125·027	2229	32346 (B.A.)	209	..	705	412	752	..	..	..	..	1428
2·05	+0·240	− 0·04	9·09691	0·11339	1·43214	9·31224	136·827	2240	32510 (B.A.)	242	2460	..	..	..	..	..	..	..	1429
1·94	+0·052	− 0·31	9·06108	0·11070	1·43044	9·31112	137·415	2238	{ 2904 (F.) 32502 (B.A.) }	241	2461	..	415	754	532	..	..	..	1430
+ 1·86	−0·549	+ 0·02	0·10718	0·06329	1·42906	9·31020	111·745	2230	32398 (B.A.)	217	..	..	..	753	..	448	..	..	1431
1·67	0·438	+ 0·08	9·85643	0·08064	1·42606	9·30855	124·842	2236	32494 (B.A.)	239	..	805	..	756	..	..	..	..	1432
1·66	0·345	+ 0·74	9·54568	0·09296	1·42590	9·30840	133·169	2237	32519 (B.A.)	244	..	..	416	757	..	..	..	1992	1433
1·48	−0·354	− 0·21	9·57623	0·09056	1·42283	9·30688	132·944	2239	32603 (B.A.)	259	..	..	..	..	..	..	..	..	1434
1·36	+0·158	+ 0·26	9·07004	0·10196	1·42097	9·30600	138·755	2251	{ 2907 (F.) 32790 (B.A.) }	286	2475	..	417	758	..	..	..	2008	1435
+ 1·36	+0·158	+ 0·28	9·07004	0·10192	1·42092	9·30600	138·761	2252	{ 2908 (F.) 32791 (B.A.) }	287	2477	..	418	759	..	..	..	..	1436
1·29	−0·485	+ 0·18	9·98313	0·07478	1·41977	9·30551	119·656	..	32651 (B.A.)	265	..	900	..	..	..	..	..	..	1437
0·90	0·353	− 0·02	9·56961	0·08622	1·41322	9·30318	134·131	2249	...	298	..	..	..	..	..	..	..	..	1438
0·87	0·561	+ 0·08	0·12326	0·07124	1·41320	9·30303	111·243	..	...	294	..	..	..	760	..	450	..	..	1439
0·77	0·534	+ 0·04	0·08146	0·07357	1·41104	9·30258	114·290	2246	...	299	..	..	..	761	534	451	..	..	1440

The magnitudes of Stars taken from Argelander are marked with Asterisks. Other magnitudes are taken in the order of preference from the British Association Catalogue of 8377 Stars; from the Catalogue of Lalande published by the British Association; from Weisse's *Catalogus Stellarum ex Zonis Regiomontanis*; or, for the variable stars, from Mr. Pogson's lists in the "Radcliffe Observations for 1854 and 1856." The authorities for any remaining magnitudes are given in the Notes.

No.	Magnitude.	Star's Name.	Mean Right Ascension, 1860, Jan. 1, from Observations, 1854 to 1860.	Mean Year and Fraction of Year.	Number of Observations.	Annual Precession in R.A. for 1860, from Peters' Elements.	Secular Variation of Precession in R.A.	Annual Proper Motion in R.A. from Main or B.A.C.	Logarithms of e	f	g	h	Value of l	Mean North Polar Distance, 1860, Jan. 1, from Observations, 1854 to 1860.	Mean Year and Fraction of Year.	Number of Observations.
			h m s			s	s	s					s	° ′ ″		
1441	4·3*	92 Herculis.......... ξ	17. 52. 19·61	1856·2	3	+ 2·323	+0·0024	+ 0·010	0·07825	0·05062	1·43653	0·07873	89·216	60. 44. 5·89	1856·2	3
1442	5*	57 Serpentis......... ζ	17. 53. 5·19	1859·5	3	3·158	+0·0023	+ 0·013	0·07845	0·05432	1·44960	0·07923	87·927	93. 40. 39·60	1859·6	4
1443	4·5*	94 Herculis .... ν	17. 53. 8·78	1859·6	2	2·294	+0·0024	− 0·002	0·07834	0·05034	1·43607	0·07877	89·261	59. 47. 48·62	1859·6	2
1444	5*	66 Ophiuchi...........	17. 53. 19·82	1854·6	2	2·970	+0·0023	− 0·004	0·07848	0·05430	1·44669	0·07912	88·158	85. 37. 9·28	1854·6	2
1445	2·3*	33 Draconis......... γ	17. 53. 21·34	1858·4	83	1·391	+0·0031	0·000	0·07806	0·03860	1·42146	0·07830	91·145	38. 29. 36·01	1858·4	84
1446	4*	67 Ophiuchi	17. 53. 38·01	1854·5	3	+ 3·003	+0·0023	0·000	0·07851	0·05434	1·44721	0·07915	88·112	87. 3. 29·85	1854·5	2
1447	7	W. B. XVII. 1115...	17. 53. 40·28	1854·6	1	3·004	+0·0023	..	0·07851	0·05434	1·44721	0·07915	88·112	87. 4. 14·44	1854·6	1
1448	5*	93 Herculis	17. 53. 49·56	1857·2	3	2·669	+0·0022	− 0·004	0·07850	0·05323	1·44200	0·07899	88·597	73. 14. 18·28	1857·2	3
1449	..	Rümker 6172.......	17. 54. 34·57	1859·5	2	1·738	+0·0027	..	0·07837	0·04369	1·42713	0·07861	90·363	45. 3. 6·01	1859·5	2
1450	9	Groombridge 2495...	17. 55. 27·05	1859·5	3	1·519	+0·0028	..	0·07845	0·04055	1·42356	0·07862	90·819	40. 43. 46·70	1859·5	3
1451	5*	69 Ophiuchi......... τ	17. 55. 27·57	1859·5	3	+ 3·264	+0·0022	+ 0·006	0·07870	0·05410	1·45124	0·07925	87·794	98. 10. 34·79	1859·5	3
1452	5*	35 Draconis...........	17. 55. 43·17	1860·5	1	− 2·709	+0·0113	+ 0·014	0·07718	9·95620	1·34814	0·07723	100·920	13. 1. 16·03	1860·5	1
1453	4	Piazzi XVII. 339 ...	17. 56. 4·61	1857·0	4	+ 3·831	+0·0022	+ 0·011	0·07871	0·05052	1·45986	0·07942	87·336	119. 34. 55·03	1857·0	4
1454	5*	96 Herculis	17. 56. 24·03	1859·5	4	2·563	+0·0022	+ 0·002	0·07878	0·05257	1·44033	0·07904	88·745	69. 9. 50·92	1859·5	4
1455	3·4*	10 Sagittarii .... γ	17. 56. 48·86	1858·6	4	3·857	+0·0021	− 0·004	0·07879	0·05027	1·46025	0·07938	87·317	120. 25. 17·60	1858·9	3
1456	4·5*	70 Ophiuchi (1st Star).	17. 58. 22·68	1859·5	3	+ 3·013	+0·0020	+ 0·017	0·07901	0·05434	1·44736	0·07917	88·065	87. 27. 50·49	1859·5	3
1457		70 Ophiuchi (2nd Star)	17. 58. 23·00	1857·8	3	3·013	+0·0020	+ 0·017	0·07901	0·05434	1·44736	0·07917	88·065	87. 27. 53·45	1859·5	2
1458	5	Piazzi XVII. 359....	17. 59. 13·01	1856·1	5	3·797	+0·0017	− 0·001	0·07909	0·05083	1·45935	0·07923	87·342	118. 28. 6·58	1856·1	5
1459	5	Groombridge 2502...	17. 59. 29·53	1859·5	3	1·563	+0·0026	..	0·07909	0·04117	1·42428	0·07912	90·648	41. 32. 26·66	1859·5	3
1460	3·4*	72 Ophiuchi...........	18. 0. 42·75	1857·4	69	2·847	+0·0020	− 0·005	0·07925	0·05400	1·44478	0·07920	88·268	80. 27. 11·25	1856·7	43
1461	6	Piazzi XVII. 367 ...	18. 1. 3·56	1858·0	12	+ 3·867	+0·0014	+ 0·001	0·07932	0·05016	1·46041	0·07911	87·293	120. 44. 47·19	1858·1	13
1462	..	......	18. 2. 54·53	1860·5	4	2·269	+0·0022	..	0·07954	0·05009	1·43567	0·07937	89·183	59. 1. 12·02	1860·5	3
1463	Var.	......	18. 3. 48·47	1860·5	3	2·269	+0·0022	..	0·07965	0·05008	1·43567	0·07942	89·173	59. 0. 3·16	1860·5	3
1464	4*	13 Sagittarii......... μ	18. 5. 23·44	1856·8	81	3·588	+0·0010	− 0·004	0·07979	0·05253	1·45618	0·07896	87·454	111. 5. 29·43	1856·8	56
1465	5*	104 Herculis......... A	18. 6. 38·10	1859·5	5	2·257	+0·0021	+ 0·005	0·08000	0·04997	1·43548	0·07961	89·156	58. 37. 38·08	1859·2	7
1466	5*	15 Sagittarii...........	18. 6. 51·81	1860·4	6	+ 3·579	+0·0008	− 0·006	0·07996	0·05259	1·45604	0·07891	87·453	110. 45. 56·92	1860·4	6
1467	8	Groombridge 2531...	18. 8. 56·67	1859·5	3	1·532	+0·0021	..	0·08062	0·04073	1·42376	0·08026	90·529	40. 56. 12·20	1859·5	3
1468	6*	Piazzi XVIII. 24....	18. 9. 17·40	1856·4	10	+ 3·755	+0·0002	+ 0·005	0·08028	0·05122	1·45872	0·07868	87·324	117. 5. 20·77	1856·4	10
1469	5*	40 Draconis	18. 10. 30·16	1859·5	1	− 4·485	−0·0258	+ 0·022	0·08549	9·91229	1·31208	0·08539	104·083	10. 1. 19·08	1859·5	1
1470	5*	41 Draconis	18. 10. 36·39	1859·5	1	− 4·487	−0·0262	+ 0·018	0·08556	9·91229	1·31203	0·08546	104·075	10. 1. 8·17	1859·5	1
1471	..	......	18. 10. 58·00	1855·5	1	+ 3·362	+0·0008	..	0·08036	0·05380	1·45274	0·07893	87·603	102. 16. 0·80	1855·5	1
1472	7	Groombridge 2536...	18. 11. 21·88	1859·5	3	1·530	+0·0019	..	0·08100	0·04071	1·42373	0·08056	90·487	40. 53. 23·26	1859·5	3
1473	3·4*	19 Sagittarii .... δ	18. 12. 1·88	1857·3	12	3·839	−0·0005	− 0·001	0·08064	0·05046	1·45998	0·07845	87·262	119. 53. 0·09	1857·3	12
1474	5	Groombridge 2538...	18. 12. 40·46	1859·5	3	1·916	+0·0020	..	0·08094	0·04609	1·43002	0·08033	89·700	49. 7. 0·12	1859·5	5
1475	5*	36 Draconis...........	18. 13. 5·41	1858·3	7	0·292	−0·0005	+ 0·052	0·08235	0·01964	1·40298	0·08204	93·075	25. 38. 58·94	1858·1	24
1476	8	Groombridge 2542...	18. 13. 19·20	1859·5	3	+ 1·534	+0·0018	..	0·08132	0·04078	1·42381	0·08080	90·438	40. 57. 26·87	1859·5	3
1477	5	105 Herculis	18. 13. 25·08	1859·5	1	2·467	+0·0019	+ 0·001	0·08073	0·05190	1·43881	0·07983	88·715	65. 36. 34·56	1859·5	1
1478	..	......	18. 13. 35·23	1854·6	1	3·268	+0·0007	..	0·08062	0·05412	1·45130	0·07897	87·675	98. 21. 42·54	1854·6	1
1479	3*	58 Serpentis......... η	18. 14. 3·96	1857·2	47	3·140	+0·0010	− 0·039	0·08067	0·05437	1·44933	0·07910	87·801	92. 55. 54·66	1856·8	27
1480	3·2*	20 Sagittarii......... ε	18. 14. 52·72	1857·2	8	3·987	−0·0015	− 0·004	0·08108	0·04896	1·46220	0·07811	87·176	124. 26. 45·60	1857·7	7

Annual Precession in N.P.D. for 1860, from Peters' Elements.	Secular Variation of Precession in N.P.D.	Annual Proper Motion in N.P.D. from Main or B.A.C.	Logarithms of e′	f′	g′	h′	Value of l′	No. in Bessel's Bradley. 1755.	No. in Lalande Fedorenko (F.) 1790, or British Association (B.A.) 1800.	Hour and No. in Piazzi. 1800.	No. in Groombridge. 1810.	Hour and No. in Weisse's Bessel. 1825.	No. in Argelander. 1830.	No. in Pond's 1112. 1830.	No. in First Cambridge Catalogue. 1830.	No. in Johnson's (St. Helena). 1830.	No. in Fallows. 1830.	No. in Struve. 1830.	No.
″	″	″					″			XVII.		XVII.							
+ 0·67	− 0·339	+ 0·03	9·52231	0·08507	1·40947	9·30223	135·446	2258	32952 (B.A.)	314	..	..	..	765	..	..	..	..	1441
0·61	0·461	+ 0·03	9·91971	0·07848	1·40833	9·30198	123·531	2254	32950 (B.A.)	313	..	1093	..	766	..	453	..	..	1442
0·60	0·335	− 0·01	9·50813	0·08459	1·40822	9·30198	135·839	2261	32998 (B.A.)	324	..	..	..	768	..	..	..	..	1443
0·58	0·433	− 0·01	9·83942	0·07999	1·40796	9·30193	126·961	2257	...	318	..	1100	..	767	..	..	..	..	1444
0·58	0·203	+ 0·04	9·16909	0·08732	1·40793	9·30193	140·034	2267	{ 2912 (F.) 33043 (B.A.) }	335	2492	..	420	771	538	..	286	2032	1445
+ 0·56	− 0·438	+ 0·03	9·85455	0·07969	1·40751	9·30188	126·402	2259	32984 (B.A.)	322	..	1114	..	769	..	..	..	2028	1446
0·55	0·438	..	9·85455	0·07969	1·40746	9·30188	126·405	..	32990 (B.A.)	..	..	1115	..	..	..	..	..	..	1447
0·54	0·389	− 0·03	9·69557	0·08199	1·40723	9·30183	131·744	2262	33009 (B.A.)	329	..	..	..	770	..	..	..	..	1448
0·48	0·254	..	9·27091	0·08520	1·40612	9·30168	139·339	..	...	..	..	..	..	..	..	..	..	..	1449
0·40	0·222	..	9·20194	0·08459	1·40480	9·30143	140·161	..	33119 (B.A.)	..	2495	..	..	..	..	..	..	..	1450
+ 0·40	−0·476	− 0·02	9·96038	0·07817	1·40478	9·30143	121·769	2265	33060 (B.A.)	337	..	1154	..	772	..	455	..	2033	1451
0·38	+0·395	− 0·24	9·10789	0·08572	1·40440	9·30143	140·886	2287	33292 (B.A.)	380	2501	..	422	777	..	..	..	..	1452
0·34	−0·559	+ 0·08	0·11932	0·07612	1·40386	9·30133	111·891	..	33063 (B.A.)	339	..	..	..	773	..	456	..	..	1453
0·32	0·374	− 0·05	9·64227	0·08120	1·40338	9·30133	133·509	2269	33114 (B.A.)	349	..	..	..	775	..	..	..	..	1454
0·28	0·563	+ 0·23	0·12450	0·07663	1·40276	9·30123	111·539	2266	33086 (B.A.)	343	..	..	..	774	..	457	..	..	1455
+ 0·14	− 0·440	+ 1·09	9·85872	0·07930	1·40039	9·30108	126·763	2271	33169 (B.A.)	358	..	1228	421	776	..	..	..	..	1456
0·14	0·440	+ 1·09	9·85872	0·07930	1·40039	9·30108	126·763	2271	33169 (B.A.)	358	..	1229	..	776	..	..	..	..	1457
0·07	0·554	+ 0·11	0·11234	0·07860	1·39912	9·30103	112·578	..	33173 (B.A.)	359	..	..	..	778	539	458	..	..	1458
+ 0·05	0·228	..	9·21405	0·07980	1·39872	9·30103	140·810	..	33273 (B.A.)	..	2502	..	..	..	..	..	..	..	1459
− 0·06	0·415	− 0·06	9·78262	0·07899	1·39685	9·30103	129·933	2275	...	374	..	1282	..	779	..	..	..	..	1460
− 0·09	− 0·564	+ 0·13	9·12659	0·08004	1·39631	9·30103	111·593	..	...	367	..	..	..	..	..	..	..	..	1461
0·26	0·331	..	9·49582	0·07680	1·39348	9·30118	137·639	..	33374 (B.A.)	..	..	..	..	..	..	..	..	..	1462
0·33	0·331	..	9·49554	0·07608	1·39212	9·30133	137·784	..	...	..	..	..	..	..	..	..	..	..	1463
0·47	0·523	+ 0·01	0·06262	0·08223	1·38968	9·30163	116·469	2284	33433 (B.A.)	XVIII. 7	..	..	..	781	540	460	288	..	1464
0·58	0·329	− 0·09	9·49024	0·07370	1·38774	9·30193	138·332	2291	33519 (B.A.)	18	..	..	..	783	..	..	..	..	1465
− 0·60	−0·521	+ 0·02	0·06021	0·08300	1·38738	9·30198	116·727	2288	33481 (B.A.)	14	..	..	..	..	..	..	..	..	1466
0·78	0·223	..	9·20629	0·06838	1·38412	9·30268	142·638	..	33661 (B.A.)	..	2531	..	..	..	..	..	..	..	1467
0·81	−0·547	+ 0·06	0·10329	0·08582	1·38358	9·30283	113·780	..	33578 (B.A.)	24	..	..	..	..	..	..	..	..	1468
0·92	+0·654	− 0·09	9·14860	0·06253	1·38169	9·30333	143·683	2318	{ 2931 (F.) 33972 (B.A.) }	62	2546	..	..	788	..	..	..	2082	1469
0·93	+0·654	− 0·06	9·14860	0·06235	1·38150	9·30338	143·707	2321	{ 2933 (F.) 33977 (B.A.) }	63	2547	..	..	789	..	..	..	2083	1470
− 0·96	− 0·490	..	9·99484	0·08285	1·38094	9·30353	121·163	..	...	..	..	..	..	..	..	..	..	..	1471
0·99	0·222	..	9·20656	0·06540	1·38031	9·30368	143·077	..	{ 2921 (F.) 33758 (B.A.) }	..	2536	..	..	..	..	..	..	..	1472
1·05	0·559	+ 0·04	0·12100	0·08854	1·37926	9·30402	112·542	2294	33696 (B.A.)	32	..	..	..	785	..	462	..	..	1473
1·11	0·279	..	9·33925	0·06588	1·37823	9·30432	141·738	..	33793 (B.A.)	..	2538	..	..	..	..	..	..	..	1474
1·14	0·042	− 0·01	9·04999	0·06016	1·37759	9·30457	144·813	2309	33872 (B.A.)	54	2543	..	425	791	..	..	..	..	1475
− 1·17	−0·223	..	9·20844	0·06301	1·37722	9·30472	143·412	..	{ 2923 (F.) 33832 (B.A.) }	..	2542	..	..	..	..	..	..	..	1476
1·17	0·359	0·00	9·59406	0·07035	1·37706	9·30476	137·151	2300	33801 (B.A.)	47	..	..	..	786	..	..	..	..	1477
1·19	0·475	..	9·96190	0·08229	1·37680	9·30481	123·265	..	...	..	..	..	..	..	..	..	..	..	1478
1·23	0·457	+ 0·68	9·91259	0·08031	1·37602	9·30511	125·909	2298	33802 (B.A.)	48	..	XVIII. 302	424	787	..	463	..	..	1479
1·30	0·580	+ 0·14	0·14820	0·09227	1·37472	9·30561	110·423	2297	...	46	..	..	..	790	..	464	290	..	1480

1453, 1455, 1458, 1461, 1468, 1473, and 1480. These stars are respectively identical with Lacaille 7552, 7557, 7579, 7590, 7659, 7670, and 7689.
1452, 1469, and 1470. These stars are respectively identical with Schwerd 1061, 1075, and 1076.
1453. This star is designated Sagittarii γ^1 in the B. A. C.
1463 This star is the variable T Herculis; the magnitude at the maximum is about 8.
1455. This star is designated 10 Sagittarii γ^2 in the B. A. C.
1467, 1472. The magnitudes have been taken from Groombridge.

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			h m s			s	s	s					s	° ′ ″		
1481	5.4*	1 Lyræ .... κ	18. 14. 57.37	1859.5	3	+ 2.103	+0.0020	− 0.002	0.08112	0.04836	1.43301	0.08032	89.319	53. 59. 47.25	1859.5	3
1482	6*	37 Draconis............	18. 16. 5.97	1855.3	4	− 0.350	−0.0041	+ 0.004	0.08382	0.00728	1.39182	0.08350	94.375	21. 17. 42.63	1855.3	4
1483	9	Lalande 33885	18. 16. 38.97	1856.1	2	+ 3.639	−0.0006	..	0.08108	0.05221	1.45696	0.07843	87.360	113. 3. 4.60	1856.1	2
1484	4.5*	23 Ursæ Minoris ..... δ	18. 17. 30.19	1857.6	146	− 19.380	−0.5119	+ 0.048	0.10918	8.89498	0.74976	0.10912	137.007	3. 23. 53.19	1857.6	262
1485	6	38 Draconis...........	18. 17. 48.00	1855.4	4	− 0.345	−0.0049	− 0.006	0.08431	0.00738	1.39191	0.08395	94.299	21. 18. 50.62	1855.3	3
1486	5	Groombridge 2555...	18. 17. 57.88	1859.5	5	+ 1.536	+0.0015	..	0.08206	0.04083	1.42383	0.08134	90.344	40. 56. 51.31	1859.5	6
1487	3*	22 Sagittarii......... λ	18. 19. 19.84	1857.7	22	3.707	−0.0012	− 0.005	0.08143	0.05169	1.45800	0.07821	87.302	115. 29. 41.83	1857.9	19
1488	7	Groombridge 2563...	18. 19. 50.92	1855.6	1	1.856	+0.0018	..	0.08199	0.04534	1.42904	0.08108	89.696	47. 36. 25.24	1855.6	1
1489	7	Piazzi XVIII. 72....	18. 20. 49.97	1857.6	2	3.941	−0.0024	..	0.08179	0.04950	1.46151	0.07775	87.171	123. 8. 0.68	1857.6	3
1490	6	W.B. XVIII. 483....	18. 21. 5.85	1859.6	1	2.920	+0.0011	..	0.08141	0.05431	1.44591	0.07944	87.995	83. 28. 59.54	1859.6	3
1491	5	Bradley 2313	18. 21. 13.09	1860.5	3	+ 3.420	−0.0003	..	0.08148	0.05361	1.45363	0.07860	87.492	104. 39. 5.06	1860.5	3
1492	5*	39 Draconis .... b	18. 21. 52.03	1859.6	3	0.881	−0.0004	− 0.009	0.08356	0.03028	1.41299	0.08294	91.572	31. 16. 46.99	1859.6	3
1493	5.6	Piazzi XVIII. 79....	18. 21. 53.86	1857.6	1	+ 3.939	−0.0026	− 0.002	0.08192	0.04952	1.46148	0.07769	87.168	123. 4. 38.05	1857.6	1
1494	6*	24 Ursæ Minoris.......	18. 22. (32.)	..	..	− 22.148	−0.4454	+ 0.085	† ..	..	..	..	..	3. 1. 16.13	1856.2	1
1495	6	Piazzi XVIII. 88....	18. 23. 6.19	1860.5	4	+ 3.530	−0.0010	− 0.016	0.08175	0.05302	1.45530	0.07834	87.398	108. 59. 36.54	1860.5	3
1496	4.3*	44 Draconis .... χ	18. 23. 34.68	1859.5	1	− 1.191	−0.0150	+ 0.117	0.08741	9.99008	1.37675	0.08705	95.871	17. 19. 43.97	1859.5	3
1497	6	24 Sagittarii..........	18. 25. 20.30	1856.0	4	+ 3.667	−0.0018	+ 0.002	0.08209	0.05207	1.45739	0.07799	87.295	114. 7. 56.36	1856.0	4
1498	7	25 Sagittarii..........	18. 25. 58.95	1855.6	2	3.673	−0.0020	+ 0.013	0.08217	0.05204	1.45747	0.07795	87.288	114. 19. 28.81	1855.6	2
1499	8	Lalande 34310	18. 26. 7.79	1859.3	4	3.553	−0.0014	..	0.08209	0.05291	1.45564	0.07819	87.364	109. 53. 12.54	1859.3	4
1500	5	Groombridge 2612...	18. 30. 46.12	1859.5	2	1.361	+0.0003	..	0.08443	0.03826	1.42097	0.08334	90.410	37. 45. 22.53	1859.5	3
1501	1*	3 Lyræ .... α	18. 32. 11.92	1856.8	92	+ 2.013	+0.0016	+ 0.017	0.08349	0.04746	1.43158	0.08187	89.212	51. 20. 40.73	1856.8	97
1502	5*	2 Aquilæ	18. 34. 36.38	1860.0	10	3.286	−0.0010	+ 0.004	0.08285	0.05433	1.45157	0.07860	87.510	99. 10. 58.70	1859.9	7
1503	4.3*	27 Sagittarii......... φ	18. 36. 54.46	1858.3	11	3.748	−0.0040	+ 0.004	0.08351	0.05156	1.45861	0.07720	87.187	117. 7. 49.98	1858.2	12
1504	4*	4 Lyræ ε¹ (1st Star) ...	18. 39. 42.04	1859.5	5	1.985	+0.0014	− 0.002	0.08454	0.04721	1.43113	0.08260	89.138	50. 28. 27.58	1859.5	5
1505		Lyræ ε¹ (2d Star) ...	18. 39. 42.27	1859.5	5	1.985	+0.0014	− 0.002	0.08454	0.04721	1.43113	0.08260	89.138	50. 28. 24.33	1859.5	5
1506	4*	5 Lyræ ε² (1st Star) ...	18. 39. 44.32	1859.5	6	+ 1.988	+0.0014	− 0.002	0.08454	0.04725	1.43116	0.08259	89.134	50. 31. 53.57	1859.5	6
1507		Lyræ ε² (2d Star) ...	18. 39. 44.55	1859.5	5	1.988	+0.0014	− 0.002	0.08454	0.04725	1.43116	0.08259	89.134	50. 31. 55.90	1859.5	5
1508	5.6*	46 Draconis c	18. 39. 55.30	1859.6	2	1.163	−0.0013	− 0.005	0.08648	0.03518	1.41769	0.08520	90.568	34. 36. 4.68	1859.6	4
1509	4.5*	6 Lyræ............ ζ¹	18. 39. 57.12	1859.6	3	2.063	+0.0015	+ 0.002	0.08442	0.04816	1.43238	0.08237	89.007	52. 32. 21.63	1859.6	5
1510	..	Lyræ............ ζ²	18. 39. 58.93	1859.6	1	2.063	+0.0015	+ 0.003	0.08443	0.04817	1.43238	0.08238	89.004	52. 32. 59.08	1859.7	2
1511	Var.	......	18. 40. 0.46	1860.5	5	+ 3.207	−0.0010	..	0.08337	0.05462	1.45036	0.07876	87.539	95. 51. 6.43	1860.5	5
1512	..	......	18. 40. 53.88	1855.6	1	3.606	−0.0035	..	0.08378	0.05276	1.45646	0.07744	87.245	112. 5. ...	..	..
1513	5	Groombridge 2671...	18. 43. 35.40	1859.6	2	1.340	−0.0007	..	0.08667	0.03808	1.42062	0.08516	90.163	37. 9. 52.61	1859.6	5
1514	..	......	18. 43. 39.45	1855.6	2	2.213	+0.0015	..	0.08461	0.04990	1.43477	0.08216	88.718	56. 48. ...	..	..
1515	6.7	Lacaille 7898	18. 43. 42.22	1858.5	10	3.858	−0.0060	..	0.08448	0.05066	1.46026	0.07644	87.099	120. 53. 45.64	1858.5	9
1516	6	Groombridge 2672...	18. 43. 51.61	1859.7	1	+ 1.547	+0.0002	..	0.08616	0.04126	1.42402	0.08448	89.797	40. 43. 17.88	1859.7	1
1517	5.6	Groombridge 2677...	18. 44. 34.66	1860.6	6	1.584	+0.0003	..	0.08617	0.04182	1.42461	0.08444	89.721	41. 23. 27.33	1860.6	6
1518	Var.*	10 Lyræ .... β¹	18. 44. 54.71	1857.0	124	2.214	+0.0015	− 0.002	0.08476	0.04994	1.43479	0.08224	88.696	56. 47. 51.19	1856.6	114
1519	8	Lyræ .... β²	18. 44. 56.63	1855.4	31	2.214	+0.0015	..	0.08476	0.04994	1.43479	0.08224	88.696	56. 48. 30.43	1855.4	33
1520	5*	32 Sagittarii .... ν¹	18. 45. 42.92	1859.8	4	3.626	−0.0043	− 0.004	0.08436	0.05272	1.45676	0.07716	87.201	112. 54. 47.79	1859.7	5

1487, 1489, 1493, 1497, 1498, 1503, and 1520. These stars are respectively identical with Lacaille 7725, 7735, 7746, 7769, 7774, 7844, and 7912.
1494. This star is identical with Schwerd 1099.
1511. This star is the variable R Scuti; the limits of magnitude are 5 and 9; the period 71.75 days.
1518. The limits of magnitude are 3.4 and 4.5; the period 12.90639 days.
† For No. 1494, log. e = 0.12196, log. f = − 8.77283, log. g = 0.45520, log. h = 0.12190, l. = 111ˢ.048.

Annual Precession in N.P.D. for 1860, from Peters' Elements.	Secular Variation of Precession in N.P.D.	Annual Proper Motion in N.P.D. from Main or B.A.C.	Logarithms of e′	Logarithms of f′	Logarithms of g′	Logarithms of h′	Value of l′	No. in Bessel's Bradley. 1755.	No. in Lalande Fedorenko (F.) 1790, or British Association (B.A.) 1800.	Hour and No. in Piazzi. 1800.	No. in Groombridge. 1810.	Hour and No. in Weisse's Bessel. 1825.	No. in Argelander. 1830.	No. in Pond's 1112. 1830.	No. in First Cambridge Catalogue. 1830.	No. in Johnson's (St. Helena). 1830.	No. in Fallows. 1830.	No. in Struve. 1830.	No.
″	″	″					″			XVIII.		XVIII.							
− 1.31	−0.305	− 0.02	9.41896	0.06509	1.37462	9.30566	140.912	2305	33879 (B.A.)	55	..	..	..	792	..	..	..	..	1481
1.41	+0.052	+ 0.08	9.05308	0.05487	1.37279	9.30634	145.434	2316	{ 2935 (F.) 34044 (B.A.) }	67	2554	..	..	..	..	..	..	..	1482
1.46	−0.529	..	0.07598	0.08935	1.37188	9.30673	116.190	..	33885 (B.A.)	..	..	..	..	..	..	..	..	..	1483
1.53	+2.818	− 0.03	9.25285	0.05068	1.37048	9.30732	144.196	2395	3006 (F.)	178	2628	..	..	798	550	..	..	2112	1484
1.56	+0.051	+ 0.09	9.05500	0.05220	1.37003	9.30747	145.761	2322	34126 (B.A.)	80	2561	..	..	..	..	..	..	..	1485
− 1.57	−0.223	..	9.21112	0.05723	1.36976	9.30767	144.222	..	34042 (B.A.)	..	2555	..	..	..	..	..	..	..	1486
1.69	0.538	+ 0.24	0.09248	0.09212	1.36754	9.30869	115.099	2310	...	66	..	..	..	793	543	467	..	..	1487
1.73	0.269	..	9.31765	0.05756	1.36674	9.30908	143.248	..	34120 (B.A.)	..	2563	..	..	..	..	..	..	..	1488
1.82	0.572	..	0.14016	0.09678	1.36510	9.30991	111.318	..	...	72	..	..	..	..	..	..	..	..	1489
1.84	0.423	..	9.81684	0.07540	1.36466	9.31015	130.969	..	...	..	..	483	..	..	..	..	..	..	1490
− 1.85	−0.496	+ 0.02	0.01368	0.08756	1.36447	9.31025	120.734	2313	34113 (B.A.)	..	..	..	..	794	545	470	..	..	1491
1.91	0.127	− 0.05	9.09342	0.04867	1.36341	9.31078	146.114	2328	{ 2946 (F.) 34241 (B.A.) }	98	2570	..	..	795	..	..	..	2097	1492
1.91	−0.571	+ 0.12	0.13982	0.09762	1.36339	9.31078	111.384	..	...	79	..	..	..	..	552	..	..	..	1493
1.97	+3.215	− 0.01	9.26316	0.04217	1.36231	9.31142	145.110	2417	3038 (F.)	227	2667	..	..	..	..	..	..	..	1494
2.02	−0.511	+ 0.27	0.04673	0.09088	1.36139	9.31190	118.636	..	34183 (B.A.)	88	..	..	..	..	..	..	..	..	1495
− 2.06	+0.174	+ 0.35	9.08314	0.04218	1.36062	9.31234	146.760	2337	{ 2961 (F.) 34392 (B.A.) }	119	2586	..	428	797	..	..	..	2106	1496
2.21	−0.531	0.00	0.08293	0.09522	1.35768	9.31408	116.114	2324	34269 (B.A.)	105	..	..	..	..	549	..	..	..	1497
2.27	0.531	− 0.02	0.08422	0.09574	1.35662	9.31476	116.046	2326	34300 (B.A.)	108	..	..	..	..	..	..	..	..	1498
2.28	0.514	..	0.05300	0.09297	1.35637	9.31490	118.363	..	34310 (B.A.)	..	..	..	..	..	..	..	..	..	1499
2.68	0.196	..	9.17811	0.03908	1.34861	9.32012	146.874	..	{ 2974 (F.) 34580 (B.A.) }	..	2612	..	..	..	..	..	..	2119	1500
− 2.81	−0.290	− 0.28	9.38507	0.04632	1.34619	9.32192	144.242	2341	34598 (B.A.)	143	2616	..	431	799	551	..	..	2123	1501
3.02	0.472	0.00	9.96820	0.08779	1.34210	9.32507	124.499	2342	34647 (B.A.)	149	..	844	..	800	..	474	297	2131	1502
3.22	0.538	− 0.01	0.10175	0.10487	1.33815	9.32823	115.108	2344	34713 (B.A.)	159	..	..	..	801	554	475	298	..	1503
3.46	0.284	− 0.04	9.37712	0.03754	1.33331	9.33238	145.559	2355	34912 (B.A.)	183	2650	..	433	804	..	..	..	2149	1504
3.46	0.284	− 0.04	9.37712	0.03754	1.33331	9.33238	145.559	2355	34912 (B.A.)	183	2650	..	..	804	..	..	..	..	1505
− 3.46	−0.284	− 0.09	9.37822	0.03757	1.33325	9.33243	145.545	2356	34914 (B.A.)	184	2651	..	..	805	..	..	..	2150	1506
3.46	0.284	− 0.09	9.37822	0.03757	1.33325	9.33243	145.545	2356	34914 (B.A.)	184	2651	..	434	805	..	..	..	2150	1507
3.48	0.166	− 0.01	9.15503	0.02423	1.33294	9.33270	148.785	2360	2999 (F.)	195	2657	..	..	807	..	..	..	..	1508
3.48	0.295	− 0.07	9.40909	0.03921	1.33288	9.33274	145.020	2357	34919 (B.A.)	187	..	..	..	806	..	..	..	2152	1509
3.48	0.295	− 0.09	9.40943	0.03920	1.33281	9.33279	145.019	2358	34924 (B.A.)	189	..	..	..	..	..	..	..	..	1510
− 3.48	−0.459	..	9.93887	0.08554	1.33279	9.33283	126.639	..	34875 (B.A.)	..	..	996	..	..	..	..	..	..	1511
3.56	0.516	..	0.06741	0.10269	1.33122	9.33420	118.008	..	...	..	..	..	..	..	..	..	..	..	1512
3.79	0.190	..	9.19117	0.02093	1.32652	9.33850	148.981	..	{ 3015 (F.) 35113 (B.A.) }	..	2671	..	..	..	..	..	..	..	1513
3.80	0.315	..	9.47596	0.03995	1.32641	9.33859	144.215	..	...	..	..	..	..	..	..	..	..	..	1514
3.80	0.551	..	0.12447	0.11308	1.32626	9.33872	113.379	..	...	..	..	..	..	..	..	..	..	..	1515
− 3.82	−0.220	..	9.23754	0.02359	1.32602	9.33895	148.407	..	{ 3017 (F.) 35119 (B.A.) }	..	2672	..	..	..	..	..	..	..	1516
3.88	0.225	..	9.24797	0.02327	1.32478	9.34012	148.379	..	{ 3019 (F.) 35153 (B.A.) }	..	2677	..	..	..	..	..	..	..	1517
3.91	0.315	+ 0.03	9.47683	0.03877	1.32416	9.34075	144.379	2369	35134 (B.A.)	215	..	..	435	..	556	..	..	2175	1518
3.91	0.315	..	9.47683	0.03877	1.32416	9.34075	144.379	..	35137 (B.A.)	..	..	..	..	..	557	..	..	..	1519
3.97	0.517	+ 0.01	0.07262	0.10624	1.32275	9.34209	117.794	2364	35104 (B.A.)	211	..	..	..	809	..	477	..	..	1520

The magnitudes of Stars taken from Argelander are marked with Asterisks. Other magnitudes are taken in the order of preference from the British Association Catalogue of 8377 Stars; from the Catalogue of Lalande published by the British Association; from Weisse's *Catalogus Stellarum ex Zonis Regiomontanis*; or, for the variable stars, from Mr. Pogson's lists in the "Radcliffe Observations, 1854 and 1856." The authorities for any remaining magnitudes are given in the Notes.

No.	Magnitude.	Star's Name.	Mean Right Ascension, 1860, Jan. 1, from Observations, 1854 to 1860.	Mean Year and Fraction of Year.	Number of Observations.	Annual Precession in R.A. for 1860, from Peters' Elements.	Secular Variation of Precession in R.A.	Annual Proper Motion in R.A. from Main or B.A.C.	Logarithms of e	f	g	h	Value of l	Mean North Polar Distance, 1860, Jan. 1, from Observations, 1854 to 1860.	Mean Year and Fraction of Year.	Number of Observations.
			h m s			s	s	s					s	° ′ ″		
1521	2·3e	34 Sagittarii ..... σ	18. 46. 34·95	1857·7	10	+ 3·744	−0·0052	0·000	0·08459	0·05194	1·45824	0·07675	87·147	116. 27. 58·14	1857·7	11
1522	5e	35 Sagittarii ..... σ^2	18. 46. 39·16	1859·5	4	3·624	−0·0044	+ 0·006	0·08444	0·05375	1·45672	0·07713	87·199	112. 50. 31·66	1859·5	4
1523	5	Groombridge 2699 ...	18. 48. 26·90	1859·6	1	1·350	−0·0010	..	0·08747	0·03830	1·42058	0·08580	90·036	37. 12. 16·25	1859·6	3
1524	5	11 Lyræ ..... β^1	18. 48. 50·19	1859·6	1	2·094	+ 0·0014	+ 0·002	0·08551	0·04869	1·43288	0·08298	88·817	53. 12. 4·51	1859·6	1
1525	4·5e	113 Herculis	18. 48. 50·31	1859·5	3	2·532	+ 0·0011	+ 0·005	0·08467	0·05288	1·43983	0·08129	88·197	67. 31. 47·35	1859·5	3
1526	8	Groombridge 2700 ...	18. 49. 2·65	1855·6	1	+ 1·864	+ 0·0010	..	0·08610	0·04581	1·42917	0·08389	89·173	47. 14. 19·89	1855·6	1
1527	9	Draconis ..... o^1	18. 49. 6·90	1855·7	1	0·878	−0·0044	..	0·08910	0·03046	1·41253	0·08772	90·842	30. 46. 25·83	1855·7	1
1528	7·8	Groombridge 2701 ...	18. 49. 6·94	1855·6	4	1·865	+ 0·0010	..	0·08611	0·04583	1·42919	0·08389	89·171	47. 16. 13·93	1855·6	4
1529	5·4e	47 Draconis ..... o^2	18. 49. 7·98	1856·7	4	+ 0·879	−0·0044	+ 0·005	0·08910	0·03049	1·41295	0·08771	90·839	30. 46. 54·80	1857·9	9
1530	5	Groombridge 2719 ...	18. 49. 14·96	1860·2	3	− 1·460	−0·0419	+ 0·008	0·09737	9·98449	1·57180	0·09668	95·113	16. 4. 41·89	1860·2	3
1531																
1532	4·3e	63 Serpentis ..... θ	18. 49. 15·58	1859·6	2	+ 2·980	−0·0004	− 0·003	0·08421	0·05489	1·44685	0·07954	87·674	85. 58. 31·62	1859·6	4
1533	4e	Bradley 2377	18. 49. 16·99	1859·6	2	2·980	−0·0004	− 0·004	0·08421	0·05489	1·44685	0·07954	87·674	85. 58. 36·55	1859·6	4
1534	4e	37 Sagittarii ..... ξ^2	18. 49. 22·53	1858·9	7	3·581	−0·0044	− 0·001	0·08468	0·05313	1·45608	0·07717	87·207	111. 17. 11·87	1858·9	7
1535	5·4e	12 Lyræ ..... δ^2	18. 49. 36·52	1859·6	3	+ 2·098	+ 0·0014	+ 0·002	0·08566	0·04874	1·43393	0·08303	88·800	53. 16. 38·08	1859·6	3
1536	5·4e	13 Lyræ	18. 50. 51·95	1860·0	3	− 1·887	−0·0545	− 0·018	0·09958	9·97510	1·36385	0·09892	95·820	14. 43. 58·84	1860·0	6
1537	8	Piazzi XVIII. 259 ..	18. 50. 5·80	1859·2	3	2·725	+ 0·0006	..	0·08485	0·05417	1·44287	0·08066	87·932	85. 58. 31·62	1859·6	4
1538	4e	13 Aquilæ ..... ϵ	18. 53. 16·11	1857·5	67	2·726	+ 0·0006	− 0·008	0·08489	0·05419	1·44289	0·08066	87·908	75. 7. 8·61	1856·7	46
1539	..	.....	18. 53. 17·98	1854·7	1	2·770	+ 0·0004	..	0·08485	0·05438	1·44357	0·08047	87·859	76. 55. 32·53	1854·7	1
1540	3·4e	38 Sagittarii ..... ζ	18. 53. 42·10	1856·3	5	3·825	−0·0074	− 0·005	0·08561	0·05118	1·45977	0·07592	87·060	120. 4. 33·61	1856·2	6
1541	9	W. B. XVIII. 1364 ..	18. 53. 55·60	1854·7	1	+ 2·862	0·0000	..	0·08484	0·05474	1·44501	0·08009	87·752	80. 49. 47·92	1854·7	1
1542	6e	48 Draconis	18. 54. 22·94	1860·0	3	+ 1·022	−0·0039	− 0·005	0·08965	0·03301	1·41534	0·08804	90·450	32. 22. 10·89	1860·0	3
1543	5·6e	52 Draconis ..... υ	18. 56. 5·94	1858·9	3	− 0·719	−0·0306	+ 0·007	0·09688	0·00006	1·38527	0·09594	93·432	18. 53. 26·82	1859·2	18
1544	4·3e	40 Sagittarii ..... τ	18. 58. 11·82	1858·7	9	+ 3·756	−0·0073	− 0·008	0·08599	0·05192	1·45873	0·07596	87·666	117. 52. 15·62	1858·6	10
1545	3e	17 Aquilæ ..... ζ	18. 58. 58·52	1857·1	117	2·758	+ 0·0003	− 0·006	0·08546	0·05448	1·44339	0·08067	87·809	76. 20. 30·71	1856·6	100
1546	Var.	.....	18. 59. 37·67	1860·5	3	+ 2·890	−0·0003	..	0·08541	0·05497	1·44545	0·08006	87·665	81. 58. 44·62	1860·5	3
1547	6·7	Bradley 2409	19. 0. 48·26	1860·6	4	2·497	+ 0·0011	..	0·08605	0·05291	1·43928	0·08199	88·092	65. 57. 49·54	1860·6	4
1548	*	41 Sagittarii ..... π	19. 1. 26·21	1855·5	1	3·573	−0·0057	− 0·004	0·08599	0·05347	1·45596	0·07669	87·135	111. 14. 33·34	1855·5	1
1549	6e	20 Aquilæ	19. 5. 4·93	1855·5	3	3·256	−0·0030	− 0·001	0·08596	0·05513	1·45112	0·07821	87·303	98. 10. 11·90	1855·5	3
1550	6e	42 Sagittarii ..... ψ	19. 6. 57·18	1859·8	16	3·683	−0·0077	0·000	0·08682	0·05280	1·45762	0·07585	87·046	115. 29. 38·62	1859·1	10
1551	Var.	.....	19. 8. 28·76	1860·5	5	+ 3·526	−0·0060	..	0·08666	0·05400	1·45524	0·07665	87·112	109. 33. 2·39	1860·4	4
1552	4·5e	20 Lyræ ..... η	19. 8. 59·59	1859·6	4	2·041	+ 0·0010	+ 0·002	0·08828	0·04851	1·43203	0·08493	88·562	51. 5. 34·91	1859·6	8
1553	6·5e	53 Draconis	19. 9. 1·69	1859·7	4	1·134	−0·0045	+ 0·002	0·09200	0·03515	1·41721	0·08992	89·881	33. 22. 41·45	1859·7	4
1554	6	55 Draconis	19. 9. (14.)	..	..	0·239	−0·0178	− 0·003	0·09632	0·02914	1·40207	0·09483	91·278	24. 15. 20·22	1858·6	2
1555	5e	43 Sagittarii ..... d	19. 9. 26·51	1860·0	2	3·516	−0·0066	− 0·004	0·08674	0·05409	1·45509	0·07667	87·111	109. 11. 53·06	1860·2	3
1556	5e	1 Vulpeculæ	19. 10. 11·96	1859·5	3	+ 2·579	+ 0·0007	+ 0·003	0·08891	0·05379	1·44058	0·08199	87·875	68. 51. 16·11	1859·6	7
1557	6	Piazzi XIX. 50	19. 11. 1·07	1860·5	2	3·432	−0·0052	− 0·014	0·08677	0·05462	1·45388	0·07710	87·746	105. 46. 35·79	1860·5	2
1558	6·5e	25 Aquilæ ..... ω	19. 11. 14·69	1856·9	68	2·817	−0·0003	− 0·003	0·08665	0·05510	1·44430	0·08067	87·615	78. 39. 15·44	1856·2	77
1559	5·6e	54 Draconis	19. 11. 20·59	1859·7	4	1·077	−0·0053	− 0·002	0·09273	0·03423	1·41626	0·09063	89·906	32. 32. 7·30	1859·7	4
1560	4·5e	21 Lyræ ..... θ	19. 11. 30·55	1859·6	3	2·082	+ 0·0011	− 0·005	0·08847	0·04907	1·43268	0·08491	88·465	52. 6. 49·85	1859·6	3

1530, 1535, and 1543. These stars are respectively identical with Schwerd 1119, 1120, and 1123.
1521, 1522, 1540, 1544, and 1550. These stars are respectively identical with Lacaille 7918, 7920, 7966, 7994, and 8052.
1546. This star is the variable R Aquilæ; it is of the 6·7 magnitude at the maximum; the period 351·5 days.
1551. This star is the variable R Sagittarii; the probable maximum magnitude is 8·9.

Annual Precession in N.P.D. for 1860, from Peters' Elements.	Secular Variation of Precession in N.P.D.	Annual Proper Motion in N.P.D. from Main or B.A.C.	Logarithms of e′	f′	g′	h′	Value of l′	No. in Bessel's Bradley.	No. in Lalande Fedoronko (F.) 1790, or British Association (B.A.) 1800.	Hour and No. in Piazzi. 1800.	No. in Groombridge. 1810.	Hour and No. in Welsen's Bessel. 1825.	No. in Argelander. 1830.	No. in Pond's 11. 1830.	No. in Fred Cambridge Catalogue. 1830.	No. in Johnson's (Sir. Hickens.). 1830.	No. in Fallows. 1830.	No. in Struve. 1830.	No
s	s	s					s	1755.											
										XVIII.		XVIII.							
− 4·05	−0·530	+ 0·08	0·09611	0·11058	1·32122	9·34361	115·894	2365	35149 (B.A.)	218	..	..	..	810	559	478	300	..	1521
4·05	0·516	− 0·01	0·07192	0·10669	1·32110	9·34369	117·884	2366	35156 (B.A.)	219	..	..	..	811	..	479	..	..	1522
4·21	0·191	..	9·30085	0·01407	1·31799	9·34683	149·699	..	35326 (B.A.)	..	2699	..	..	..	..	..	..	..	1523
4·24	0·297	− 0·02	9·42651	0·03073	1·31720	9·34753	146·017	2380	35312 (B.A.)	243	..	..	..	..	..	..	..	..	1524
4·24	0·359	− 0·01	9·62890	0·04891	1·31720	9·34753	140·907	2378	35299 (B.A.)	239	..	..	..	813	..	..	..	..	1525
											2700	..	..						
− 4·26	−0·264	..	9·33826	0·00360	1·31684	9·34788	147·696	..	....	..	....	..	..	..	..	..	..	..	1526
4·27	0·123	..	9·14114	0·00743	1·31669	9·34806	150·656	..	....	248	..	..	..	..	..	..	..	..	1527
4·27	0·264	..	9·33885	0·00353	1·31669	9·34806	147·700	..	35331 (B.A.)	..	2701	..	..	..	..	..	..	..	1528
4·27	0·264	..	9·33885	0·00353	1·31669	9·34806	147·700	..	3039 (F.)	249	2707	..	..	818	..	..	..	2188	1529
4·27	−0·123	− 0·01	9·14115	0·00742	1·31666	9·34810	150·655	2386	3048 (F.)	249	2707	..	..	818	..	..	..	..	1530
4·28	+ 0·210	− 0·13	9·14922	0·99787	1·31646	9·34832	151·154	..	35475 (B.A.)	..	2719	..	..	819	..	..	..	..	1531
− 4·28	−0·423	− 0·08	9·84429	0·07375	1·31683	9·34832	132·464	2376	35295 (B.A.)	236	..	1252	436	815	..	..	..	2184	1532
4·28	0·423	− 0·09	9·84429	0·07374	1·31640	9·34837	132·465	2377	....	237	..	1255	..	816	..	..	..	..	1533
4·29	0·508	+ 0·03	0·06081	0·10639	1·31625	9·34850	118·868	2373	35274 (B.A.)	233	..	..	..	814	562	480	..	..	1534
4·31	−0·297	− 0·04	9·42862	0·03004	1·31583	9·34893	146·087	2383	35347 (B.A.)	247	..	..	..	817	..	..	..	..	1535
4·42	+ 0·270	− 0·02	9·16495	9·99437	1·31356	9·35124	151·352	2404	3058 (F.) 35559 (B.A.)	279	2726	..	..	821	..	..	..	..	1536
− 4·43	−0·257	0·00	9·32634	0·02001	1·31319	9·35164	148·222	2389	35448 (B.A.)	252	2717	..	..	..	..	..	..	..	1537
4·58	0·385	..	9·72411	0·05732	1·30997	9·35500	138·067	..	....	259	..	..	..	..	..	..	..	..	1538
4·62	0·385	+ 0·10	9·74609	0·05991	1·30918	9·35585	137·241	2390	35469 (B.A.)	262	..	..	438	822	..	..	..	..	1539
4·62	0·391	..	9·72485	0·05723	1·30931	9·35581	138·083	..	....	..	..	..	..	..	..	..	..	..	1540
4·66	0·541	+ 0·03	0·11796	0·11938	1·30843	9·35663	114·193	2384	35435 (B.A.)	257	..	..	..	820	..	481	301	..	1541
												1364	..						
− 4·68	−0·404	..	9·79007	0·06553	1·30804	9·35706	135·431	..	35487 (B.A.)	..	..	..	..	..	..	..	..	..	1542
4·72	−0·143	+ 0·07	9·16643	0·00063	1·30718	9·35795	151·254	2400	3059 (F.)	281	2731	..	..	824	..	..	..	..	1543
4·86	+0·104	− 0·06	9·15106	9·98709	1·30405	9·36135	152·820	2411	35749 (B.A.)	308	2748	..	..	827	..	..	..	..	1544
5·04	−0·528	+ 0·26	0·10339	0·11973	1·30020	9·36563	115·588	2397	35646 (B.A.)	292	..	..	..	826	..	484	302	..	1545
5·10	0·587	+ 0·07	9·74044	0·05688	1·29878	9·36717	138·050	2405	35718 (B.A.)	303	..	..	..	829	..	..	..	..	1546
− 5·16	−0·405	..	9·80312	0·06600	1·29754	9·36858	135·360	..	....	..	..	..	..	..	..	..	..	..	1547
5·26	0·349	− 0·22	9·61352	0·03871	1·29538	9·37101	142·837	2409	35819 (B.A.)	315	..	..	..	..	..	..	..	..	1548
5·31	0·500	+ 0·03	0·05884	0·11160	1·29420	9·37236	119·454	2406	35797 (B.A.)	XIX. 16	..	..	..	830	564	489	304	..	1549
5·62	0·453	0·00	9·95756	0·09336	1·28738	9·38034	127·072	2415	....	..	..	..	..	832	..	490	305	..	1550
5·78	0·512	+ 0·01	0·08657	0·12189	1·28384	9·38448	117·257	2418	....	21	..	..	..	833	..	..	..	..	1551
											..	..	..						
− 5·90	−0·489	..	0·04568	0·11345	1·28094	9·38793	120·741	..	....	..	....	..	..	..	..	..	..	..	1552
5·95	0·282	− 0·05	9·41959	0·00597	1·27999	9·38910	149·100	2427	36253 (B.A.)	45	2790	..	..	835	..	..	..	2259	1553
5·95	0·155	− 0·05	9·21431	9·97879	1·27992	9·38918	153·111	2433	....	52	2791	..	..	836	..	..	..	..	1554
5·97	0·051	0·00	9·17984	9·96790	1·27951	9·38969	154·026	2443	3128 (F.) 36340 (B.A.)	63	2796	..	..	..	..	..	..	..	1555
5·98	0·487	− 0·01	0·04301	0·11331	1·27912	9·39005	120·988	2423	36190 (B.A.)	35	..	..	..	834	568	491	..	..	1556
− 6·05	−0·356	− 0·06	9·65447	0·03791	1·27767	9·39189	142·530	2428	36279 (B.A.)	51	..	..	..	837	..	..	..	..	1557
6·12	0·474	+ 0·44	0·01762	0·10821	1·27610	9·39378	123·040	..	....	50	..	XIX. 22	..	..	..	..	..	..	1558
6·14	0·389	− 0·02	9·76879	0·05683	1·27565	9·39437	137·988	2432	36319 (B.A.)	57	..	255	..	838	..	..	..	..	1559
6·15	0·147	+ 0·09	9·21511	9·97382	1·27534	9·39475	153·535	2444	3132 (F.)	74	2804	..	..	840	..	..	..	..	1560
6·16	0·286	+ 0·07	9·43632	0·00498	1·27517	9·39494	149·064	2438	36361 (B.A.)	65	..	..	..	839	..	..	..	..	

The magnitudes of Stars taken from Argelander are marked with Asterisks. Other magnitudes are taken in the order of preference from the British Association Catalogue of 8377 Stars; from the Catalogue of Lalande published by the British Association; from Weisse's *Catalogus Stellarum ex Zonis Regiomontanis*; or, for the variable stars, from Mr. Pogson's lists in the "Radcliffe Observations, 1854 and 1856." The authorities for any remaining magnitudes are given in the Notes.

No.	Magnitude.	Star's Name.	Mean Right Ascension, 1860, Jan. 1, from Observations, 1854 to 1860.	Mean Year and Fraction of Year.	Number of Observations.	Annual Precession in R.A. for 1860, from Peters' Elements.	Secular Variation of Precession in R.A.	Annual Proper Motion in R.A. from Main or B.A.C.	Logarithms of e	Logarithms of f	Logarithms of g	Logarithms of h	Value of l	Mean North Polar Distance, 1860, Jan. 1, from Observations, 1854 to 1860.	Mean Year and Fraction of Year.	Number of Observations.
			h m s			s	s	s					s	° ′ ″		
1561	3*	57 Draconis .... δ	19. 12. (30.)	..	..	+ 0·017	−0·0227	+ 0·020	0·09830	0·01495	1·39824	0·09686	91·507	22. 35. 5·31	1860·0	16
1562	7·8	Groombridge 2808...	19. 12. 38·22	1860·0	3	1·602	−0·0009	..	0·09053	0·04262	1·42491	0·08780	89·105	40. 49. 30·46	1860·0	3
1563	4*	44 Sagittarii .... ρ¹	19. 13. 33·04	1858·0	7	3·487	−0·0061	− 0·003	0·08712	0·05439	1·45465	0·07669	87·099	108. 6. 25·43	1858·0	7
1564	5·4*	46 Sagittarii .... υ	19. 13. 42·47	1858·6	5	3·441	−0·0056	− 0·002	0·08706	0·05466	1·45394	0·07695	87·123	106. 12. 51·58	1858·6	5
1565	4*	1 Cygni .... κ	19. 13. 52·00	1857·3	27	1·382	−0·0025	+ 0·004	0·09173	0·03927	1·42131	0·08925	89·393	36. 53. 18·93	1857·4	25
1566	6*	47 Sagittarii .... χ¹	19. 16. 45·22	1857·7	1	+ 3·655	−0·0086	− 0·001	0·08783	0·05333	1·45720	0·07551	86·998	114. 46. 36·18	1857·7	1
1567	6	49 Sagittarii .... χ³	19. 17. 1·09	1856·9	9	+ 3·640	−0·0085	+ 0·002	0·08782	0·05345	1·45697	0·07559	87·002	114. 13. 57·95	1856·9	9
1568	5*	60 Draconis .... τ	19. 18. 13·37	1856·7	8	− 1·073	−0·0563	− 0·033	0·10611	9·99296	1·37889	0·10497	92·936	16. 54. 19·91	1856·9	34
1569	5·6*	31 Aquilæ .... b	19. 18. 17·60	1860·1	8	+ 2·812	−0·0004	+ 0·049	0·08735	0·05533	1·44424	0·08084	87·543	78. 21. 8·04	1860·1	9
1570	3·4*	30 Aquilæ .... δ	19. 18. 26·31	1857·3	61	3·010	+0·0017	+ 0·014	0·08721	0·05581	1·44731	0·07958	87·372	87. 9. 40·97	1857·1	40
1571	6	Groombridge 2832...	19. 19. 31·09	1855·6	6	+ 1·895	+0·0005	..	0·09027	0·04693	1·42967	0·08680	88·566	46. 52. 58·25	1855·6	5
1572	5*	58 Draconis .... π	19. 19. 56·56	1858·1	37	0·322	−0·0188	+ 0·009	0·09859	0·02086	1·40349	0·09686	90·767	24. 33. 17·24	1858·2	53
1573	6	Piazzi XIX. 126	19. 21. 12·36	1856·6	7	3·718	−0·0102	− 0·006	0·08850	0·05295	1·45816	0·07485	86·943	117. 16. 6·01	1856·6	7
1574	4·5*	6 Vulpeculæ .... α	19. 22. 52·83	1858·2	26	2·505	+0·0009	− 0·011	0·08846	0·05368	1·43941	0·08303	87·790	65. 36. 58·61	1857·6	39
1575	7	Lalande 36872	19. 23. 56·61	1860·6	4	3·744	−0·0110	..	0·08889	0·05282	1·45854	0·07450	86·919	118. 17. 3·48	1860·6	3
1576	6*	7 Cygni .... ι¹	19. 24. 0·35	1855·8	6	+ 1·472	−0·0023	− 0·009	0·09302	0·04093	1·42279	0·09012	89·026	37. 57. 49·11	1855·8	5
1577	9	Groombridge 2858...	19. 26. 7·19	1859·7	4	1·630	−0·0011	..	0·09253	0·04339	1·42538	0·08932	88·771	40. 47. 1·74	1859·7	4
1578	4*	10 Cygni .... ι²	19. 26. 10·58	1855·8	7	1·512	−0·0021	0·000	0·09317	0·04160	1·42345	0·09015	88·923	38. 34. 1·74	1855·7	8
1579	5·4*	38 Aquilæ .... μ	19. 27. 14·99	1856·8	49	2·918	−0·0013	+ 0·013	0·08813	0·05600	1·44588	0·08029	87·357	82. 54. 55·61	1856·2	32
1580	6·5*	37 Aquilæ .... k	19. 27. 24·28	1859·6	3	3·310	−0·0052	+ 0·004	0·08823	0·05576	1·45194	0·07746	87·090	100. 51. 46·04	1859·6	4
1581	6	51 Sagittarii .... h¹	19. 27. 31·37	1857·6	1	+ 3·651	−0·0100	− 0·002	0·08900	0·05375	1·45714	0·07497	86·928	115. 1. 19·22	1857·6	1
1582	5·4*	52 Sagittarii .... h²	19. 28. 11·01	1858·8	27	3·655	−0·0101	+ 0·002	0·08908	0·05374	1·45720	0·07490	86·923	115. 11. 19·81	1858·7	25
1583	4·5*	41 Aquilæ .... ι	19. 29. 28·65	1859·6	3	3·106	−0·0030	+ 0·005	0·08827	0·05626	1·44881	0·07893	87·197	91. 35. 38·48	1859·6	4
1584	6	Groombridge 2876...	19. 29. 50·40	1859·6	2	1·653	−0·0011	..	0·09300	0·04382	1·42574	0·08965	88·661	41. 2. 28·18	1859·6	3
1585	7	Bradley 2496	19. 32. 10·87	1855·6	2	+ 1·610	−0·0015	− 0·002	0·09361	0·04324	1·42504	0·09026	88·663	40. 4. 25·16	1855·6	2
1586	5·6*	61 Draconis .... σ	19. 32. 37·49	1857·2	10	− 0·203	−0·0368	+ 0·096	0·10538	0·01093	1·39439	0·10374	90·997	20. 34. 37·30	1857·4	14
1587	5·4*	13 Cygni .... θ	19. 32. 41·21	1857·5	8	+ 1·612	−0·0015	− 0·002	0·09368	0·04330	1·42508	0·09031	88·648	40. 6. 6·00	1858·1	6
1588	5·6	Piazzi XIX. 233	19. 34. 3·57	1859·6	3	1·664	−0·0011	+ 0·025	0·09360	0·04411	1·42592	0·09010	88·554	41. 2. 17·70	1859·6	4
1589	4·5*	6 Sagittæ .... β	19. 34. 45·68	1859·6	4	2·694	+0·0001	+ 0·004	0·08921	0·05542	1·44239	0·08216	87·457	72. 50. 45·38	1859·6	10
1590	..	......	19. 34. 52·87	1858·6	2	3·416	−0·0072	..	0·08915	0·05561	1·45356	0·07645	86·977	105. 40. 43·65	1858·6	2
1591	6·5*	14 Cygni	19. 34. 53·07	1856·2	11	+ 1·951	+0·0006	+ 0·005	0·09215	0·04813	1·43057	0·08799	88·205	47. 30. 12·77	1856·2	11
1592	5	Groombridge 2907...	19. 35. 32·38	1859·6	2	+ 1·349	−0·0043	..	0·09574	0·03927	1·42076	0·09274	88·899	35. 21. 11·99	1859·6	2
1593	6	Groombridge 2917...	19. 35. (49.)	..	..	− 0·537	−0·0497	..	0·10871	0·00431	1·38852	0·10719	91·285	18. 42. 23·22	1858·5	2
1594	6·7	Piazzi XIX. 237	19. 36. 32·03	1858·5	19	+ 3·812	−0·0142	− 0·005	0·09057	0·05264	1·45957	0·07315	86·822	121. 14. 6·08	1858·5	18
1595	5·6	Piazzi XIX. 243	19. 37. 4·93	1857·3	6	3·841	−0·0149	− 0·003	0·09076	0·05236	1·46001	0·07288	86·809	122. 14. 31·52	1857·3	6
1596	6·5*	16 Cygni .... c¹	19. 38. 5·65	1855·9	17	+ 1·612	−0·0016	− 0·022	0·09455	0·04346	1·42508	0·09104	88·524	39. 47. 53·62	1855·9	17
1597		Cygni .... c²	19. 38. 8·40	1855·9	17	1·612	−0·0017	− 0·016	0·09456	0·04346	1·42508	0·09104	88·524	39. 48. 20·79	1855·9	16
1598	5*	56 Sagittarii .... f	19. 38. 11·54	1859·7	6	3·517	−0·0091	− 0·013	0·08972	0·05516	1·45510	0·07550	86·910	110. 5. 39·44	1859·7	6
1599	5·6*	15 Cygni	19. 39. 13·70	1859·6	3	2·157	+0·0012	+ 0·010	0·09168	0·05085	1·43388	0·08675	87·904	52. 58. 55·79	1859·6	3
1600	3*	50 Aquilæ .... γ	19. 39. 36·22	1856·8	115	2·852	−0·0010	+ 0·001	0·08938	0·05635	1·44486	0·08101	87·273	79. 43. 31·05	1857·1	94

No.	Annual Precession in N.P.D. for 1860, from Peters' Elements.	Secular Variation of Precession in N.P.D.	Annual Proper Motion in N.P.D. from Main or B.A.C.	Logarithms of e′	Logarithms of f′	Logarithms of g′	Logarithms of h′	Value of l′	No. in Bessel's Bradley. 1755.	No. in Lalande Fedorenko (F.) 1790, or British Association (B.A.) 1800.	Hour and No. in Piazzi. 1800.	No. in Groombridge. 1810.	Hour and No. in Weisse's Bessel. 1825.	No. in Argelander. 1830.	No. in Pond's 1112. 1830.	No. in First Cambridge Catalogue. 1830.	No. in Johnson's (St. Helena). 1830.	No. in Fallows. 1830.	No. in Struve. 1830.
	″	″	″					″			XIX.		XIX.						
1561	− 6·24	0·000	− 0·07	9·19285	9·96036	1·27325	9·39728	154·529	2449	{3141 (F.) 36510 (B.A.)}	90	2811	..	440	842	572	..	..	2274
1562	6·25	−0·219	..	9·29535	9·98417	1·27299	9·39762	152·216	..	...	..	2808	..	..	..	..	..	..	..
1563	6·33	0·480	− 0·03	0·03435	0·11327	1·27123	9·39978	121·807	2434	36383 (B.A.)	69	..	..	..	841	569	493	308	..
1564	6·34	0·473	+ 0·05	0·02044	0·11001	1·27091	9·40015	122·914	2437	36396 (B.A.)	71	..	..	..	..	..	..	..	..
1565	6·35	0·189	− 0·09	9·25744	9·97619	1·27061	9·40053	153·148	2447	{3138 (F.) 36512 (B.A.)}	91	2813	..	..	843	..	..	..	..
1566	− 6·59	−0·501	+ 0·03	0·07987	0·12639	1·26501	9·40751	118·028	2445	36533 (B.A.)	93	..	..	..	..	..	..	..	..
1567	6·61	−0·498	− 0·04	0·07620	0·12560	1·26449	9·40814	118·359	2446	36550 (B.A.)	96	..	..	..	..	..	..	..	..
1568	6·71	+0·150	− 0·10	9·23629	9·94433	1·26212	9·41111	155·315	2472	3171 (F.)	141	2840	..	..	846	..	..	..	..
1569	6·72	−0·384	− 0·69	9·76693	0·05399	1·26202	9·41125	138·690	2452	36647 (B.A.)	114	..	..	441	844	..	..	..	..
1570	6·73	0·411	− 0·10	9·85733	0·07313	1·26172	9·41162	134·042	2451	36646 (B.A.)	113	..	435	442	845	574	..	311	..
1571	− 6·82	−0·257	..	9·38093	9·98569	1·25960	9·41428	151·494	..	36742 (B.A.)	..	2832	..	..	..	..	..	..	..
1572	6·85	0·041	− 0·02	9·21722	9·94898	1·25878	9·41533	155·368	2471	{3174 (F.) 36839 (B.A.)}	142	2842	..	444	847	..	..	..	2300
1573	6·96	0·506	+ 0·13	0·09482	0·13320	1·25628	9·41850	116·724	..	36737 (B.A.)	126	..	..	..	..	..	..	..	..
1574	7·10	0·339	+ 0·10	9·62190	0·02281	1·25295	9·42275	145·082	2467	36882 (B.A.)	148	..	..	445	848	..	..	..	..
1575	7·18	0·507	..	0·10047	0·13661	1·25086	9·42539	116·211	..	36872 (B.A.)	..	..	..	..	..	..	..	..	..
1576	− 7·19	−0·197	+ 0·06	9·29447	9·96259	1·25072	9·42557	154·102	2476	36962 (B.A.)	160	2854	..	..	..	..	..	..	..
1577	7·36	0·218	..	9·32675	9·96480	1·24658	9·43099	153·725	..	37049 (B.A.)	..	2858	..	..	..	..	..	..	..
1578	7·36	0·202	− 0·13	9·30578	9·96042	1·24640	9·43107	154·215	2481	{3193 (F.) 37056 (B.A.)}	175	2859	..	..	850	..	..	..	..
1579	7·45	0·392	+ 0·14	9·81617	0·06227	1·24421	9·43394	136·926	2479	37044 (B.A.)	171	..	..	..	852	..	..	..	..
1580	7·46	0·445	+ 0·01	9·97717	0·10387	1·24392	9·43432	126·686	2477	37028 (B.A.)	170	..	677	..	851	..	495	..	..
1581	− 7·47	−0·491	0·00	0·07889	0·13277	1·24369	9·43459	118·249	2475	37016 (B.A.)	168	..	..	..	..	..	..	..	..
1582	7·53	0·491	− 0·02	0·07980	0·13346	1·24234	9·43633	118·169	2478	37051 (B.A.)	174	..	..	..	853	578	497	..	..
1583	7·63	0·416	− 0·01	9·89873	0·08300	1·23972	9·43974	132·214	2484	37142 (B.A.)	188	..	..	..	855	..	499	..	..
1584	7·66	0·220	..	9·33846	9·95992	1·23901	9·44065	154·052	..	{3207 (F.) 37229 (B.A.)}	..	2876	..	..	..	..	..	..	..
1585	7·85	−0·213	− 0·02	9·33546	9·95446	1·23427	9·44682	154·501	2496	...	220	2894	..	446	..	..	..	..	..
1586	− 7·89	+0·031	+ 1·79	9·27114	9·92008	1·23339	9·44798	156·982	2505	3235 (F.)	236	2898	..	448	859	..	..	..	..
1587	7·89	−0·213	− 0·15	9·33706	9·95377	1·23322	9·44817	154·544	2498	37359 (B.A.)	223	2895	..	447	857	..	..	..	..
1588	8·00	0·219	+ 0·13	9·34928	9·95380	1·23038	9·45188	154·461	..	{3228 (F.) 37417 (B.A.)}	233	2897	..	..	..	..	..	..	..
1589	8·06	0·356	− 0·02	9·71214	0·03403	1·22895	9·45373	142·640	2499	...	229	..	..	..	862	..	..	..	..
1590	8·07	0·453	..	0·01271	0·11685	1·22870	9·45405	124·109	..	...	..	..	..	..	..	..	..	..	..
1591	− 8·07	−0·257	− 0·07	9·41764	9·96766	1·22870	9·45405	152·824	2503	37441 (B.A.)	240	2905	..	..	..	..	..	..	..
1592	8·12	−0·176	..	9·30771	9·93943	1·22740	9·45575	155·779	..	3238 (F.)	..	2907	..	..	..	..	..	..	..
1593	8·14	+0·075	..	9·29070	9·91139	1·22679	9·45658	157·348	..	3250 (F.)	..	2917	..	..	..	..	..	..	..
1594	8·20	−0·504	+ 0·12	0·11468	0·14984	1·22531	9·45849	114·800	..	...	237	..	..	..	..	..	..	..	..
1595	8·24	0·507	+ 0·08	0·12041	0·15209	1·22417	9·45998	114·211	..	...	243	..	..	..	..	..	..	..	..
1596	− 8·33	−0·210	+ 0·16	9·34869	9·94502	1·22207	9·46272	155·127	2512	37590 (B.A.)	261	2922	..	449	..	..	..	..	2348
1597	8·33	0·210	+ 0·21	9·34889	9·94495	1·22196	9·46287	155·130	2513	37593 (B.A.)	262	2924	..	..	..	..	..	..	..
1598	8·33	0·463	+ 0·07	0·04340	0·12800	1·22189	9·46297	121·541	2504	37512 (B.A.)	249	..	..	..	863	588	..	..	..
1599	8·42	0·282	− 0·08	9·48714	9·97653	1·21971	9·46580	151·431	2514	37618 (B.A.)	269	..	..	..	864	..	..	..	..
1600	8·44	0·374	0·00	9·78625	0·05114	1·21894	9·46681	139·403	2511	37598 (B.A.)	264	..	1007	450	865	589	..	318	2351

1562. The magnitude has been taken from Groombridge.

1566, 1567, 1573, 1575, 1581, 1582, 1594, and 1595. These stars are respectively identical with Lacaille 8100, 8103, 8123, 8139, 8162, 8166, 8208, and 8211.

The magnitudes of Stars taken from Argelander are marked with Asterisks. Other magnitudes are taken in the order of preference from the British Association Catalogue of 8377 Stars; from the Catalogue of Lalande published by the British Association; from Weisse's *Catalogus Stellarum ex Zonis Regiomontanis*; or, for the variable stars, from Mr. Pogson's lists in the "Radcliffe Observations, 1854 and 1856." The authorities for any remaining magnitudes are given in the Notes.

No.	Magnitude.	Star's Name.	Mean Right Ascension, 1860, Jan. 1, from Observations, 1854 to 1860.	Mean Year and Fraction of Year.	Number of Observations.	Annual Precession in R.A. for 1860, from Peters' Elements.	Secular Variation of Precession in R.A.	Annual Proper Motion in R.A. from Main or B.A.C.	Logarithms of e	Logarithms of f	Logarithms of g	Logarithms of h	Value of l	Mean North Polar Distance, 1860, Jan. 1, from Observations, 1854 to 1860.	Mean Year and Fraction of Year.	Number of Observations.
			h m s			s	s	s					s	° ′ ″		
1601	..	......	19. 40. 23·40	1860·7	2	+ 3·736	−0·0134	..	0·09070	0·05351	1·45843	0·07353	86·821	118. 45. 15·33	1860·7	2
1602	5	Groombridge 2935...	19. 40. 30·81	1859·7	4	1·158	−0·0072	..	0·09793	0·03627	1·41761	0·09508	88·990	32. 18. 59·19	1859·7	4
1603	3*	18 Cygni............ δ	19. 40. 36·00	1857·9	29	1·871	+0·0002	+ 0·006	0·09340	0·04727	1·42928	0·08924	88·179	45. 12. 32·96	1857·6	15
1604	5·6*	17 Cygni........... χ	19. 41. 6·72	1859·6	3	2·275	+0·0013	+ 0·002	0·09135	0·05223	1·43576	0·08593	87·753	56. 35. 45·68	1859·6	3
1605	7	Lalande 37652	19. 41. 46·73	1860·7	1	3·689	−0·0126	..	0·09067	0·05400	1·45771	0·07386	86·825	117. 3. 49·66	1860·7	1
1606	6*	52 Aquilæ .... π	19. 42. 6·15	1860·7	4	+ 2·827	−0·0009	+ 0·002	0·08966	0·05638	1·44447	0·08129	87·262	78. 31. 48·46	1860·7	4
1607	7	Lacaille 8243	19. 42. 32·33	1860·6	1	3·708	−0·0131	..	0·09083	0·05386	1·45801	0·07364	86·813	117. 49. 21·79	1860·6	1
1608	5*	8 Sagittæ .... ζ	19. 42. 45·83	1859·5	3	2·662	+0·0002	+ 0·007	0·09009	0·05559	1·44188	0·08273	87·383	71. 12. 24·32	1859·5	3
1609	7	Lalande 37707	19. 43. 4·08	1860·7	1	3·697	−0·0129	..	0·09084	0·05399	1·45784	0·07371	86·814	117. 26. 1·90	1860·7	1
1610	1·2*	53 Aquilæ .... α	19. 43. 57·12	1856·9	159	2·892	−0·0014	+ 0·036	0·08974	0·05667	1·44549	0·08076	87·197	81. 29. 55·32	1856·9	118
1611	..	......	19. 44. 28·38	1854·7	2	+ 3·503	−0·0095	..	0·09032	0·05554	1·45488	0·07536	86·870	109. 43. 44·45	1854·7	2
1612	..	......	19. 45. 2·13	1854·7	2	3·500	−0·0095	..	0·09037	0·05558	1·45484	0·07536	86·867	109. 37. 19·15	1854·7	3
1613	Var.	55 Aquilæ .... η	19. 45. 20·40	1860·6	2	3·058	−0·0031	− 0·001	0·08976	0·05700	1·44806	0·07931	87·075	89. 21. 2·31	1860·6	2
1614	6*	Groombridge 2950...	19. 45. 49·18	1859·4	3	2·059	+0·0010	..	0·09304	0·04992	1·43231	0·08819	87·882	49. 45. 17·31	1859·4	3
1615	5·6*	20 Cygni .... d	19. 47. 6·96	1855·8	4	1·509	−0·0030	− 0·007	0·09674	0·04216	1·42339	0·09319	88·420	37. 21. 57·41	1855·8	4
1616	5*	58 Sagittarii......... ω	19. 47. 15·50	1859·0	6	+ 3·671	−0·0130	+ 0·013	0·09119	0·05439	1·45745	0·07368	86·796	116. 40. 2·02	1859·0	6
1617	5*	59 Aquilæ........... ξ	19. 47. 27·71	1859·5	1	2·902	−0·0016	+ 0·007	0·09006	0·05688	1·44564	0·08073	87·151	81. 53. 52·91	1859·5	1
1618	5·4*	13 Vulpeculæ..........	19. 47. 30·64	1859·6	3	2·548	+0·0008	+ 0·005	0·09093	0·05501	1·44009	0·08394	87·412	66. 17. 0·14	1859·6	2
1619	5*	59 Sagittarii......... b	19. 48. 21·10	1856·9	7	3·693	−0·0136	− 0·003	0·09139	0·05426	1·45777	0·07342	86·782	117. 32. 16·14	1856·7	6
1620	4*	60 Aquilæ .... β	19. 48. 26·14	1856·5	85	+ 2·946	−0·0020	+ 0·002	0·09010	0·05703	1·44631	0·08035	87·113	83. 56. 24·92	1856·6	60
1621	4*	63 Draconis .... ε	19. 48. 37·78	1858·0	40	− 0·181	−0·0437	+ 0·015	0·11013	0·01168	1·39479	0·10830	90·240	20. 5. 19·58	1858·1	74
1622	6·5*	61 Sagittarii......... g	19. 50. 0·42	1860·7	3	+ 3·409	−0·0084	− 0·001	0·09062	0·05634	1·45345	0·07600	86·865	105. 51. 35·50	1860·6	4
1623	5*	60 Sagittarii........ A	19. 50. 25·18	1859·0	3	3·665	−0·0133	− 0·004	0·09150	0·05460	1·45734	0·07355	86·777	116. 34. 14·57	1859·0	3
1624	4·5*	21 Cygni .... η	19. 51. 3·36	1859·7	3	2·252	+0·0014	+ 0·002	0·09265	0·05240	1·43540	0·08690	87·609	55. 17. 12·33	1859·6	4
1625	5	Groombridge 2894...	19. 52. 22·17	1859·7	4	2·083	+0·0011	..	0·09377	0·05047	1·43269	0·08861	87·737	50. 0. 22·87	1859·7	4
1626	6·5*	14 Vulpeculæ..........	19. 53. 10·11	1859·6	2	+ 2·579	+0·0007	− 0·002	0·09140	0·05552	1·44058	0·08394	87·309	67. 16. 39·39	1859·6	3
1627	5*	62 Sagittarii......... c	19. 54. 2·64	1856·6	50	3·699	−0·0146	0·000	0·09205	0·05446	1·45787	0·07299	86·744	118. 5. 44·07	1856·1	36
1628	5*	15 Vulpeculæ..........	19. 55. 20·14	1859·6	3	2·466	+0·0012	+ 0·002	0·09209	0·05470	1·43879	0·08517	87·363	62. 37. 52·47	1859·6	3
1629	5	Piazzi XIX. 366	19. 55. 26·49	1859·7	3	3·816	−0·0175	+ 0·023	0·09277	0·05339	1·45964	0·07171	86·708	122. 26. 43·17	1859·7	3
1630	5	Bradley 2559	19. 55. 48·85	1859·7	3	2·541	+0·0009	+ 0·003	0·09183	0·05535	1·43998	0·08445	87·300	65. 35. 9·15	1859·6	5
1631	7	Lalande 38262	19. 56. 39·25	1860·7	4	+ 3·672	−0·0143	..	0·09221	0·05483	1·45746	0·07309	86·734	117. 12. 20·02	1860·7	4
1632	6	Piazzi XIX. 377	19. 56. 43·56	1855·9	7	3·537	−0·0114	+ 0·005	0·09167	0·05589	1·45540	0·07447	86·772	111. 42. 18·99	1856·0	6
1633	6·5*	26 Cygni............ e	19. 57. 23·91	1855·9	9	1·697	−0·0013	+ 0·002	0·09709	0·04537	1·42646	0·09292	87·984	40. 17. 0·82	1855·9	9
1634	..	......	19. 57. 26·34	1856·0	6	1·698	−0·0013	..	0·09709	0·04538	1·42647	0·09292	87·982	40. 17. 36·17	1856·1	5
1635	6*	5 Sagittæ	19. 57. 48·86	1860·6	5	2·723	−0·0001	− 0·028	0·09139	0·05666	1·44284	0·08273	87·148	73. 18. 23·18	1860·6	6
1636	7	Lacaille 8359	20. 0. 35·01	1860·7	3	+ 3·652	−0·0144	..	0·09253	0·05519	1·45715	0·07306	86·714	116. 37. 32·26	1860·7	3
1637	7	Lalande 38498	20. 1. 40·11	1860·7	1	3·627	−0·0139	..	0·09252	0·05545	1·45677	0·07326	86·713	115. 41. 27·29	1860·7	1
1638	5*	67 Draconis .... ρ	20. 2. 10·49	1857·1	32	0·296	−0·0321	− 0·001	0·11006	0·02126	1·40304	0·10778	89·139	22. 31. 31·94	1856·9	78
1639	6*	66 Draconis	20. 3. 19·06	1859·7	4	+ 0·950	−0·0137	+ 0·013	0·10442	0·03330	1·41413	0·10147	88·494	28. 24. 37·07	1859·6	6
1640	5	Ursæ Minoris ..... λ	20. 3. 54·04	1857·4	80	− 56·107	−29·7603	− 0·035	† ..	..	..	..	..	1. 6. 35·23	1857·1	123

1605, 1609, 1616, 1619, 1623, 1627, 1629, 1631, and 1637. These stars are respectively identical with Lacaille 8241, 8248, 8268, 8277, 8294, 8315, 8322, 8334, and 8364.
1613. The limits of magnitude are 4·3 and 4·5; the period 7·17631 days.
1621. This star is identical with Schwerd 1186.
1640. This star is identical with Schwerd 1221; in the N.A. it is designated Ursæ Minoris λ.
† For No. 1640, log. e = 0·47299, log. f = − 0·24339, log. g = − 1·49286, log. h = 0·47294, l = 142^s·542.

Annual Precession in N.P.D. for 1860, from Peters' Elements.	Secular Variation of Precession in N.P.D.	Annual Proper Motion in N.P.D. from Main or B.A.C.	Logarithms of e′	Logarithms of f′	Logarithms of g′	Logarithms of h′	Value of l′	No. in Bessel's Bradley. 1755.	No. in Lalande Fedorenko (F.) 1790, or British Association (B.A.) 1800.	Hour and No. in Piazzi. 1800.	No. in Groombridge. 1810.	Hour and No. in Weisse's Bessel. 1825.	No. in Argelander. 1830.	No. in Pond's 1112. 1830.	No. in First Cambridge Catalogue. 1830.	No. in Johnson's (St. Helena). 1830.	No. in Fallows. 1830.	No. in Struve. 1830.	No.
″	″	″					″			XIX.		XIX.							
− 8·51	−0·490	..	0·09871	0·14737	1·21732	9·46897	116·367	..	...	..	..	..	..	..	..	..	..	..	1601
8·51	0·149	..	9·30707	9·92492	1·21711	9·46924	156·751	..	3259 (F.)	..	2935	..	..	..	..	..	..	..	1602
8·52	0·243	0·00	9·40552	9·95453	1·21686	9·46955	153·983	2520	37677 (B.A.)	280	2932	..	..	866	..	..	..	2358	1603
8·57	0·296	+ 0·41	9·53135	9·98450	1·21579	9·47095	150·262	2517	37689 (B.A.)	282	..	..	451	868	..	..	..	2359	1604
8·62	0·482	..	9·08796	0·14473	1·21439	9·47278	117·415	..	37652 (B.A.)	..	..	..	..	..	..	..	..	..	1605
− 8·64	−0·368	− 0·02	9·77474	0·04702	1·21373	9·47363	140·188	2518	...	283	..	1064	..	..	..	..	..	2362	1606
8·68	0·484	..	0·09233	0·14671	1·21282	9·47481	116·982	..	...	..	..	..	..	..	..	..	..	..	1607
8·70	0·346	− 0·07	9·69793	0·02542	1·21232	9·47547	143·985	2523	37739 (B.A.)	289	..	..	..	869	..	..	..	2366	1608
8·72	0·482	..	0·08983	0·14622	1·21170	9·47628	117·225	..	37707 (B.A.)	..	..	..	..	..	..	..	..	..	1609
8·79	0·376	− 0·38	9·80475	0·05509	1·20983	9·47874	138·689	2524	37771 (B.A.)	294	..	1111	452	870	592	..	320	2367	1610
− 8·83	−0·455	..	0·03930	0·12990	1·20875	9·48014	121·958	..	...	..	..	..	..	..	..	..	..	..	1611
8·87	0·454	..	0·03838	0·12986	1·20754	9·48172	122·045	..	...	..	..	..	..	..	..	..	..	..	1612
8·90	0·396	+ 0·04	9·87846	0·07735	1·20692	9·48255	134·310	2526	37812 (B.A.)	303	..	1144	..	871	..	..	..	..	1613
8·94	0·265	..	9·46285	9·96007	1·20589	9·48388	153·042	..	...	..	2950	..	..	..	..	..	..	..	1614
9·04	0·193	+ 0·07	9·35622	9·92527	1·20314	9·48749	156·436	2542	{ 3286 (F.) 37948 (B.A.) }	325	2958	..	..	..	..	..	..	..	1615
− 9·05	−0·474	− 0·08	0·08375	0·14689	1·20281	9·48791	117·790	2528	37861 (B.A.)	311	..	..	..	872	..	..	..	..	1616
9·06	0·374	+ 0·09	9·80936	0·05550	1·20239	9·48848	138·651	2536	37897 (B.A.)	319	..	1201	..	873	..	..	..	..	1617
9·07	0·328	− 0·08	9·64729	0·00781	1·20228	9·48862	146·628	2537	37920 (B.A.)	323	..	..	..	874	..	..	..	..	1618
9·13	0·476	+ 0·01	0·08877	0·14937	1·20051	9·49093	117·285	2533	37902 (B.A.)	322	..	..	..	875	596	503	321	..	1619
9·14	−0·379	+ 0·47	9·82892	0·06139	1·20034	9·49117	137·563	2538	37938 (B.A.)	324	..	1222	455	876	597	..	322	2380	1620
− 9·15	+0·027	+ 0·01	9·33304	9·88726	1·19994	9·49166	158·562	2554	3300 (F.)	343	2974	..	..	878	..	..	..	2383	1621
9·26	−0·437	+ 0·09	0·01077	0·12262	1·19698	9·49552	124·504	2540	37988 (B.A.)	329	..	..	..	..	598	..	..	..	1622
9·29	0·470	− 0·01	0·08214	0·14837	1·19609	9·49671	117·920	2539	37998 (B.A.)	331	..	..	..	877	..	..	..	..	1623
9·34	0·287	+ 0·04	9·53071	9·97066	1·19469	9·49851	151·481	2548	38092 (B.A.)	344	..	..	..	..	..	..	..	..	1624
9·44	0·264	..	9·47784	9·95294	1·19189	9·50214	153·442	..	38154 (B.A.)	..	2984	..	..	..	..	..	..	..	1625
−9·51	−0·327	+ 0·02	9·66247	0·00731	1·19017	9·50441	146·504	2553	38170 (B.A.)	358	..	..	..	881	..	..	..	.	1626
9·57	0·470	− 0·02	9·09029	0·15377	1·18827	9·50688	117·057	2549	38159 (B.A.)	355	..	..	..	882	600	505	323	.	1627
9·67	0·311	− 0·05	9·61479	9·99048	1·18549	9·51051	148·751	2558	38260 (B.A.)	375	..	..	..	884	..	..	..	..	1628
9·68	0·483	+ 0·09	0·11518	0·16405	1·18522	9·51086	114·444	..	...	366	..	..	..	883	..	506	..	..	1629
9·71	0·320	− 0·04	9·64660	9·99994	1·18443	9·51188	147·449	2559	...	..	..	..	..	885	..	..	..	..	1630
− 9·77	−0·463	..	0·08393	0·15313	1·18262	9·51421	117·659	..	38262 (B.A.)	..	..	..	..	..	..	..	..	..	1631
9·78	0·446	+ 0·05	0·04906	0·13996	1·18247	9·51440	121·066	..	38276 (B.A.)	377	..	..	..	..	..	..	..	..	1632
9·83	0·212	− 0·02	9·40569	9·91703	1·18098	9·51635	156·572	2570	{ 3337 (F.) 38393 (B.A.) }	397	3017	..	..	..	..	..	..	2408	1633
9·83	0·212	..	9·40586	9·91702	1·18090	9·51646	156·572	..	...	..	..	..	..	..	..	..	..	..	1634
9·86	0·342	+ 0·32	9·72770	0·02477	1·18008	9·51751	143·781	2568	...	393	..	..	457	..	..	..	..	..	1635
−10·07	−0·456	..	0·07911	0·15386	1·17400	9·52537	118·082	..	...	..	..	..	..	..	..	..	..	..	1636
10·15	0·452	..	0·07287	0·15212	1·17161	9·52845	118·690	..	38498 (B.A.)	..	..	..	..	..	..	..	..	..	1637
10·19	0·033	− 0·04	9·37694	9·86370	1·17051	9·52988	159·540	2587	{ 3367 (F.) 38675 (B.A.) }	XX. 21	3048	..	..	886	..	..	..	..	1638
10·28	−0·115	− 0·05	9·37712	9·87464	1·16796	9·53314	159·111	2586	3370 (F.)	25	3052	..	..	888	..	..	..	..	1639
10·32	+7·021	− 0·02	9·52427	9·83592	1·16663	9·53484	158·328	2795	3675 (F.)	424	3308	..	469	915	614	..	..	..	1640

The magnitudes of Stars taken from Argelander are marked with Asterisks. Other magnitudes are taken in the order of preference from the British Association Catalogue of 8377 Stars; from the Catalogue of Lalande published by the British Association; from Weisse's *Catalogus Stellarum ex Zonis Regiomontanis*; or, for the variable stars, from Mr. Pogson's lists in the "Radcliffe Observations, 1854 and 1856." The authorities for any remaining magnitudes are given in the Notes.

No.	Magnitude.	Star's Name	Mean Right Ascension, 1860, Jan. 1, from Observations, 1854 to 1860.	Mean Year and Fraction of Year.	Number of Observations.	Annual Precession in R.A. for 1860, from Peters' Elements.	Secular Variation of Precession in R.A.	Annual Proper Motion in R.A. from Main or B.A.C.	Logarithms of e	Logarithms of f	Logarithms of g	Logarithms of h	Value of l	Mean North Polar Distance, 1860, Jan. 1, from Observations, 1854 to 1860.	Mean Year and Fraction of Year.	Number of Observations.
			h m s			s	s	s					s	° ′ ″		
1641	3.4	65 Aquilæ .... θ	20. 4. 4.78	1857.3	58	+ 3.097	− 0.0042	+ 0.001	0.09144	0.05799	1.44866	0.07892	86.872	91. 14. 2.21	1856.9	29
1642	5*	28 Cygni .... b^2	20. 4. 13.80	1859.7	4	2.227	+ 0.0016	− 0.001	0.09439	0.05270	1.43499	0.08827	87.400	53. 34. 14.48	1859.7	4
1643	6*	18 Vulpeculæ	20. 4. (43.)	..	..	2.502	+ 0.0012	− 0.001	0.09293	0.05548	1.43936	0.08537	87.195	63. 30. 31.37	1858.6	2
1644	6	Piazzi XX. 29	20. 6. 33.04	1855.6	4	3.663	− 0.0154	+ 0.093	0.09322	0.05540	1.45732	0.07256	86.672	117. 26. 50.45	1855.6	4
1645	7	Lacaille 8386	20. 7. 8.38	1858.2	11	3.740	− 0.0175	..	0.09368	0.05472	1.45848	0.07165	86.654	120. 25. 45.02	1858.2	12
1646	Var.	......	20. 7. 40.19	1860.7	2	+ 2.740	− 0.0002	..	0.09228	0.05730	1.44311	0.08289	87.010	73. 41. 43.75	1860.7	2
1647	5*	67 Aquilæ .... ρ	20. 7. 47.89	1859.5	3	2.773	− 0.0005	+ 0.001	0.09219	0.05747	1.44362	0.08253	86.992	75. 13. 34.30	1859.5	3
1648	..	......	20. 8. 0.80	1860.7	2	2.740	− 0.0002	..	0.09231	0.05732	1.44310	0.08291	87.006	73. 40. 35.04	1860.7	2
1649	..	......	20. 8. 29.73	1860.7	2	2.740	− 0.0002	..	0.09235	0.05735	1.44310	0.08293	87.000	73. 38. 59.52	1860.7	2
1650	6*	Groombridge 3087...	20. 8. 38.03	1859.6	3	1.672	− 0.0016	..	0.09915	0.04540	1.42606	0.09478	87.729	38. 57. 23.80	1859.6	3
1651	..	......	20. 8. 46.63	1860.7	2	+ 2.741	− 0.0002	..	0.09237	0.05737	1.44312	0.08293	86.995	73. 40. 30.44	1860.7	2
1652	6	Groombridge 3088...	20. 9. 0.15	1855.7	4	2.019	+ 0.0012	..	0.09643	0.05037	1.43167	0.09100	87.460	47. 2. 39.16	1855.7	4
1653	4*	31 Cygni .... o^2	20. 9. 13.49	1855.7	2	1.889	+ 0.0004	+ 0.002	0.09746	0.04860	1.42957	0.09247	87.552	43. 40. 53.56	1855.7	2
1654	7.8	Piazzi XX. 63	20. 9. 14.62	1855.7	1	1.890	+ 0.0004	..	0.09745	0.04863	1.42959	0.09246	87.550	43. 42. 38.51	1855.7	1
1655	5	Lalande 38896	20. 9. 19.91	1859.6	2	2.541	+ 0.0012	..	0.09321	0.05605	1.43998	0.08520	87.103	64. 50. 0.22	1859.6	3
1656	6	4 Capricorni..........	20. 9. 47.62	1858.0	12	+ 3.533	− 0.0127	+ 0.006	0.09295	0.05660	1.45535	0.07386	86.679	112. 14. 20.65	1858.1	10
1657	3.4*	5 Capricorni .... α^1	20. 9. 53.12	1856.6	9	3.331	− 0.0084	− 0.002	0.09228	0.05778	1.45226	0.07620	86.732	102. 56. 16.17	1856.9	6
1658	5*	23 Vulpeculæ	20. 9. 58.10	1859.6	2	2.488	+ 0.0014	− 0.001	0.09354	0.05563	1.43914	0.08585	87.127	62. 36. 48.10	1859.6	3
1659	4.5*	33 Cygni	20. 10. 8.66	1859.7	3	1.392	− 0.0055	+ 0.007	0.10187	0.04106	1.42147	0.09810	87.906	33. 51. 33.72	1859.7	3
1660	3.4*	6 Capricorni .... α^2	20. 10. 17.03	1857.3	32	3.332	− 0.0084	+ 0.001	0.09232	0.05780	1.45227	0.07617	86.729	102. 58. 33.07	1857.1	24
1661	6*	24 Vulpeculæ..........	20. 10. 47.65	1859.7	3	+ 2.565	+ 0.0011	+ 0.005	0.09325	0.05632	1.44036	0.08501	87.067	65. 45. 30.49	1859.7	3
1662	4.5*	32 Cygni	20. 11. 8.73	1859.8	4	1.855	+ 0.0001	− 0.002	0.09802	0.04820	1.42902	0.09311	87.532	42. 42. 52.14	1859.8	4
1663	6.5*	7 Capricorni........ σ	20. 11. 18.75	1859.2	2	3.471	− 0.0114	0.000	0.09284	0.05711	1.45440	0.07451	86.684	109. 33. 9.28	1859.2	2
1664	7	Lalande 38947	20. 11. 22.36	1860.6	3	3.611	− 0.0148	..	0.09347	0.05608	1.45654	0.07285	86.651	115. 39. 27.80	1860.6	2
1665	5*	8 Capricorni........ ν	20. 12. 53.66	1859.6	3	− 3.334	− 0.0087	− 0.003	0.09255	0.05794	1.45231	0.07607	86.707	103. 11. 48.01	1859.6	3
1666	6.7	Piazzi XX. 79	20. 12. 54.40	1856.0	6	+ 3.376	− 0.0095	0.000	0.09267	0.05775	1.45296	0.07557	86.694	105. 13. 23.52	1855.6	3
1667	3*	9 Capricorni .... β	20. 13. 8.52	1857.4	23	+ 3.376	− 0.0095	− 0.001	0.09270	0.05776	1.45295	0.07557	86.692	105. 13. 13.56	1856.5	14
1668	4.5*	1 Cephei .... κ^1	20. 13. 32.04	1857.1	5	− 1.877	− 0.1637	+ 0.003	0.13566	9.97640	1.36404	0.13437	90.344	12. 42. 43.42	1858.1	16
1669	..	......	20. 13. 34.00	1855.9	3	− 1.877	− 0.1637	..	0.13566	9.97640	1.36404	0.13437	90.344	12. 42. 47.90	1855.9	3
1670	6	Groombridge 3140...	20. 15. (11.)	..	..	+ 2.173	+ 0.0019	..	0.09611	0.05259	1.43414	0.08991	87.232	51. 2. 13.16	1858.8	2
1671	7	Lacaille 8427	20. 16. 6.34	1858.4	13	+ 3.700	− 0.0177	..	0.09442	0.05558	1.45788	0.07146	86.605	119. 31. 27.99	1858.4	13
1672	7	Lalande 39153	20. 16. 11.66	1860.6	5	3.619	− 0.0156	..	0.09399	0.05629	1.45666	0.07246	86.617	116. 16. 52.97	1860.6	4
1673	6.7	Lacaille 8433	20. 16. 52.15	1858.8	2	3.688	− 0.0175	..	0.09444	0.05572	1.45769	0.07156	86.602	119. 6. 51.69	1858.8	2
1674	5	Groombridge 3154...	20. 17. 47.26	1859.7	3	2.128	+ 0.0018	..	0.09679	0.05216	1.43341	0.09072	87.208	49. 25. 12.83	1859.7	3
1675	7	Lacaille 8442	20. 17. 57.03	1858.5	16	3.696	− 0.0179	..	0.09461	0.05571	1.45782	0.07137	86.593	119. 31. 33.23	1858.5	16
1676	5*	39 Cygni	20. 18. 16.24	1859.6	4	+ 2.391	+ 0.0020	+ 0.005	0.09498	0.05517	1.43761	0.08756	87.050	58. 15. 35.80	1859.6	5
1677	5*	10 Capricorni .... π	20. 19. 18.28	1855.1	3	3.443	− 0.0115	− 0.002	0.09349	0.05776	1.45397	0.07450	86.630	108. 40. 3.69	1855.1	3
1678	7	Lalande 39324	20. 20. 10.02	1860.6	4	3.574	− 0.0149	..	0.09416	0.05689	1.45596	0.07279	86.598	114. 37. 6.48	1860.7	3
1679	7	Lacaille 8459	20. 20. 26.04	1860.6	2	3.569	− 0.0148	..	0.09416	0.05694	1.45590	0.07284	86.597	114. 26. 30.69	1860.6	2
1680	5*	11 Capricorni........ ρ	20. 20. 52.26	1859.5	20	3.433	− 0.0114	− 0.006	0.09359	0.05791	1.45382	0.07457	86.620	108. 16. 24.80	1859.6	13

1644, 1664, 1672, and 1678. These stars are respectively identical with Lacaille 8381, 8407, 8430, and 8458.
1654. The magnitude has been taken from Piazzi.
1646. This star is the variable (R) Sagittæ: the limits of magnitude are 10.11 and 8.9.

Annual Precession in N.P.D. for 1860, from Peters' Elements.	Secular Variation of Precession in N.P.D.	Annual Proper Motion in N.P.D. from Main or B.A.C.	Logarithms of e′	Logarithms of f′	Logarithms of g′	Logarithms of h′	Value of l′	No. in Bessel's Bradley. 1755.	No. in Lalande Fedorenko (F.) 1790, or British Association (B.A.) 1800.	Hour and No. in Piazzi. 1800.	No. in Groombridge. 1810.	Hour and No. in Weisse's Bessel. 1825.	No. in Argelander. 1830.	No. in Pond's 1112. 1830.	No. in First Cambridge Catalogue. 1830.	No. in Johnson's (St. Helena). 1830.	No. in Fallows. 1830.	No. in Struve. 1830.	No.
″	″	″					″			XX.		XX.							
− 10.34	− 0.383	0.00	9.89465	0.08318	1.16626	9.53531	133.935	2576	38627 (B.A.)	10	..	63	..	887	..	507	325	..	1641
10.35	0.274	− 0.06	9.53428	9.95111	1.16593	9.53574	152.939	2582	38682 (B.A.)	22	..	..	..	889	..	..	..	..	1642
10.38	0.308	− 0.04	9.63347	9.98632	1.16486	9.53713	148.874	2583	...	24	..	..	..	..	..	..	..	..	1643
10.52	0.450	+ 0.16	0.08185	0.15890	1.16080	9.54231	117.678	..	38711 (B.A.)	29	..	..	..	..	..	..	..	..	1644
10.57	0.459	..	0.09916	0.16638	1.15942	9.54406	115.844	..	...	..	..	..	..	..	..	..	..	..	1645
− 10.60	− 0.335	..	9.73664	0.02185	1.15826	9.54554	144.021	..	...	..	..	..	..	..	..	..	..	..	1646
10.61	0.339	− 0.07	9.75136	0.02740	1.15797	9.54590	143.218	2590	38818 (B.A.)	48	..	..	461	890	..	..	..	..	1647
10.63	0.334	..	9.73664	0.02164	1.15748	9.54653	144.045	..	...	..	..	..	..	..	..	..	..	..	1648
10.67	0.334	..	9.73656	0.02132	1.15640	9.54790	144.082	..	...	..	..	..	..	..	..	..	..	..	1649
10.68	0.202	..	9.42943	9.89545	1.15610	9.54828	157.604	..	{ 3388 (F.) / 38905 (B.A.) }	..	3087	..	..	..	..	..	..	..	1650
− 10.69	− 0.334	..	9.73703	0.02132	1.15576	9.54871	144.076	..	...	..	..	..	..	..	..	..	..	..	1651
10.70	0.245	..	9.48586	9.92242	1.15527	9.54934	155.423	..	38913 (B.A.)	..	3088	..	..	..	..	..	..	..	1652
10.72	0.228	− 0.05	9.46105	9.91037	1.15478	9.54996	156.426	2603	38935 (B.A.)	62	3091	..	..	892	..	..	..	..	1653
10.72	0.228	..	9.46120	9.91046	1.15474	9.55001	156.421	..	38937 (B.A.)	63	..	..	..	..	..	..	..	..	1654
10.73	0.309	..	9.65128	9.98792	1.15452	9.55030	148.482	..	38896 (B.A.)	..	..	..	..	..	..	..	..	..	1655
− 10.76	− 0.430	+ 0.05	0.04829	0.14706	1.15351	9.55158	120.994	2591	...	53	..	..	..	..	603	..	..	..	1656
10.77	0.405	0.00	9.98493	0.12063	1.15328	9.55187	126.860	2593	38877 (B.A.)	54	..	218	463	891	604	508	..	2444	1657
10.77	0.301	− 0.06	9.63022	9.97907	1.15310	9.55210	149.521	2602	38939 (B.A.)	64	..	..	..	894	..	..	..	..	1658
10.79	0.167	− 0.04	9.41196	9.87706	1.15272	9.55257	158.729	2611	3400 (F.)	74	3102	..	..	895	..	..	..	..	1659
10.80	0.405	0.00	9.98520	0.12088	1.15238	9.55299	126.838	2595	38898 (B.A.)	58	..	223	464	893	605	509	326	2445	1660
− 10.84	− 0.310	− 0.02	9.66162	9.99039	1.15122	9.55447	148.117	2606	38967 (B.A.)	70	..	..	..	896	..	..	..	..	1661
10.86	0.223	− 0.01	9.45924	9.90424	1.15043	9.55548	156.799	2612	{ 3403 (F.) / 39007 (B.A.) }	78	3108	..	..	898	..	..	..	..	1662
10.87	0.421	− 0.02	0.03032	0.14032	1.15005	9.55595	122.712	2597	38948 (B.A.)	67	..	..	..	897	606	..	327	2447	1663
10.88	0.438	..	0.06911	0.15679	1.14986	9.55618	118.875	..	38947 (B.A.)	..	..	..	..	..	..	..	..	..	1664
10.99	0.402	+ 0.02	9.98610	0.12226	1.14651	9.56043	126.758	2608	39028 (B.A.)	81	..	..	..	899	608	510	..	..	1665
− 10.99	− 0.407	− 0.08	0.00039	0.12834	1.14647	9.56048	125.482	2607	39026 (B.A.)	79	..	..	466	..	607	..	..	..	1666
11.01	0.407	− 0.03	0.00030	0.12842	1.14591	9.56119	125.486	2609	39035 (B.A.)	83	..	..	..	900	609	511	328	..	1667
11.04	0.224	0.00	9.46240	9.82168	1.14503	9.56228	160.286	2632	{ 3438 (F.) / 39266 (B.A.) }	126	3148	..	..	901	..	..	..	2462	1668
11.04	0.224	..	9.46240	9.82168	1.14503	9.56228	160.286	..	...	..	..	..	..	..	..	..	..	..	1669
11.16	0.259	..	9.53148	9.92951	1.14127	9.56699	154.409	..	39168 (B.A.)	..	3140	..	..	..	..	..	..	2458	1670
− 11.22	− 0.442	..	0.09015	0.16900	1.13918	9.56963	116.525	..	...	..	..	..	..	..	..	..	..	..	1671
11.23	0.433	..	0.07107	0.16075	1.13895	9.56990	118.546	..	39153 (B.A.)	..	..	..	..	..	..	..	..	..	1672
11.28	0.440	..	0.08753	0.16839	1.13743	9.57181	116.782	..	...	..	..	..	..	..	..	..	..	..	1673
11.34	0.251	..	9.52362	9.92014	1.13532	9.57441	155.081	..	39279 (B.A.)	..	3154	..	..	..	..	..	..	..	1674
11.36	0.440	..	0.08948	0.17000	1.13494	9.57490	116.535	..	...	..	..	..	..	..	..	..	..	..	1675
− 11.38	− 0.282	− 0.05	9.59966	9.95501	1.13421	9.57580	151.757	2625	39292 (B.A.)	132	..	..	..	903	..	..	..	..	1676
11.45	0.407	− 0.02	0.02185	0.14075	1.13183	9.57875	123.408	2623	39288 (B.A.)	131	..	..	..	904	610	513	330	..	1677
11.52	0.422	..	0.05937	0.15811	1.12984	9.58124	119.644	..	39324 (B.A.)	..	..	..	..	..	..	..	..	..	1678
11.54	0.421	..	0.05827	0.15777	1.12922	9.58199	119.753	..	...	..	..	..	..	..	..	..	..	..	1679
11.57	0.404	+ 0.01	0.01870	0.14012	1.12821	9.58322	123.685	2626	39355 (B.A.)	142	..	..	..	905	..	514	331	2474	1680

The magnitudes of Stars taken from Argelander are marked with Asterisks. Other magnitudes are taken in the order of preference from the British Association Catalogue of 8377 Stars; from the Catalogue of Lalande published by the British Association; from Weisse's *Catalogus Stellarum ex Zonis Regiomontanis*; or, for the variable stars, from Mr. Pogson's lists in the "Radcliffe Observations, 1854 and 1856." The authorities for any remaining magnitudes are given in the Notes.

No.	Magnitude.	Star's Name.	Mean Right Ascension, 1860, Jan. 1, from Observations, 1854 to 1860.	Mean Year and Fraction of Year.	Number of Observations.	Annual Precession in R.A. for 1860, from Peters' Elements.	Secular Variation of Precession in R.A.	Annual Proper Motion in R.A. from Main or B.A.C.	Logarithms of e	f	g	h	Value of l	Mean North Polar Distance, 1860, Jan. 1, from Observations, 1854 to 1860.	Mean Year and Fraction of Year.	Number of Observations.
			h m s			s	s	s					s	° ′ ″		
1681	6	Piazzi XX. 146	20. 21. 18·13	1856·9	7	+ 3·532	−0·0139	− 0·001	0·09406	0·05728	1·45533	0·07326	86·597	112. 51. 9·46	1857·2	6
1682	5*	69 Aquilæ	20. 22. 19·90	1859·6	3	3·136	−0·0053	+ 0·010	0·09302	0·05907	1·44926	0·07836	86·681	93. 20. 53·77	1859·6	3
1683	6·7	Lacaille 8466	20. 22. 22·01	1858·3	16	3·689	−0·0184	..	0·09504	0·05601	1·45772	0·07113	86·567	119. 34. 41·79	1858·4	16
1684	5·6	43 Cygni........... ω¹	20. 22. 45·66	1857·5	19	1·826	+0·0001	+ 0·005	0·10009	0·04829	1·42856	0·09503	87·274	41. 4. 46·66	1857·4	11
1685	4·5*	41 Cygni	20. 23. 40·59	1859·6	3	2·449	+0·0020	+ 0·002	0·09521	0·05603	1·43853	0·08725	86·927	60. 5. 48·19	1859·6	5
1686	..	......	20. 23. 58·56	1855·7	2	+ 3·584	−0·0156	..	0·09460	0·05703	1·45613	0·07242	86·570	115. 20. 25·19	1855·7	1
1687	6	Piazzi XX. 170	20. 24. 31·90	1853·1	10	3·585	−0·0157	− 0·011	0·09466	0·05705	1·45614	0·07237	86·566	115. 24. 47·92	1858·1	10
1688	8	Lalande 39572	20. 24. 34·93	1856·3	1	1·839	+0·0002	..	0·10027	0·04854	1·42876	0·09514	87·222	41. 12. ...	..	..
1689	5*	45 Cygni .... ω²	20. 25. 43·39	1859·7	3	1·857	+0·0004	+ 0·002	0·10028	0·04886	1·42905	0·09507	87·184	41. 31. 3·19	1859·7	3
1690	4*	2 Delphini .... ε	20. 26. 31·43	1857·2	67	2·867	−0·0013	− 0·003	0·09360	0·05901	1·44509	0·08193	86·719	79. 10. 12·81	1856·3	50
1691	6·5*	46 Cygni .... ω³	20. 26. 59·67	1859·8	4	+ 1·850	+0·0004	+ 0·002	0·10055	0·04882	1·42895	0·09534	87·156	41. 15. 3·13	1859·8	4
1692	4*	2 Cephei........... θ	20. 27. 13·55	1857·3	26	1·013	−0·0152	+ 0·004	0·10942	0·03517	1·41520	0·10612	87·592	27. 28. 32·89	1858·2	43
1693	..	......	20. 28. 34·43	1854·7	1	3·419	−0·0117	..	0·09423	0·05848	1·45360	0·07441	86·564	108. 0. 43·45	1854·7	1
1694	..	......	20. 28. 40·35	1854·7	1	3·420	−0·0117	..	0·09425	0·05848	1·45362	0·07439	86·562	108. 4. 4·66	1854·7	1
1695	5·4*	4 Delphini .... ζ	20. 28. 45·74	1859·5	2	2·803	−0·0005	0·000	0·09397	0·05889	1·44409	0·08285	86·712	75. 48. 23·73	1859·6	3
1696	..	......	20. 29. 16·91	1854·7	1	+ 3·421	−0·0118	..	0·09431	0·05851	1·45363	0·07436	86·558	108. 9. 10·04	1854·7	1
1697	..	......	20. 29. 25·65	1854·7	1	+ 3·417	−0·0117	..	0·09431	0·05854	1·45357	0·07440	86·557	107. 57. 37·25	1854·7	1
1698	5	{24 Cephei (Hev.)..... B.A.C. 7184 .....}	20. 31. 5·49	1856·9	5	− 43·554	−23·6447	..	† ..	..	..	..	..	1. 17. 57·68	1857·5	8
1699	4·5*	71 Aquilæ	20. 31. 6·40	1859·6	3	+ 3·101	−0·0049	− 0·003	0·09372	0·05967	1·44873	0·07878	86·603	91. 35. 29·39	1859·6	3
1700	5*	14 Capricorni .... τ²	20. 31. 26·39	1858·0	6	3·364	−0·0106	− 0·002	0·09428	0·05896	1·45276	0·07507	86·551	105. 26. 34·73	1858·0	6
1701	6·5*	15 Capricorni .... υ	20. 32. 4·53	1857·2	6	+ 3·427	−0·0122	0·000	0·09459	0·05865	1·45373	0·07415	86·535	108. 37. 43·95	1857·2	6
1702	6*	8 Delphini .... θ	20. 32. 7·54	1859·7	4	2·832	−0·0008	+ 0·002	0·09417	0·05924	1·44455	0·08255	86·660	77. 10. 27·33	1859·6	4
1703	7	Bradley 2667	20. 32. 35·34	1855·7	16	2·783	−0·0002	+ 0·001	0·09437	0·05905	1·44379	0·08325	86·669	74. 39. 4·73	1856·1	15
1704	4·3*	9 Delphini .... α	20. 33. 8·12	1857·5	50	+ 2·783	−0·0002	+ 0·006	0·09442	0·05908	1·44377	0·08329	86·662	74. 34. 46·54	1857·4	49
1705	5·6*	73 Draconis...........	20. 33. 18·52	1860·7	1	− 0·703	−0·0999	− 0·001	0·13174	0·00205	1·38555	0·12996	88·146	15. 31. 33·09	1860·7	3
1706	2·1*	50 Cygni .... α	20. 36. 39·60	1856·9	60	+ 2·043	+0·0022	− 0·002	0·10013	0·05199	1·43206	0·09404	86·842	45. 13. 6·23	1857·1	69
1707	6*	75 Draconis...........	20. 36. 50·86	1860·6	1	− 3·425	−0·3838	+ 0·009	0·16657	9·94062	1·33395	0·16564	89·010	9. 3. 34·07	1860·7	7
1708	4·5*	16 Capricorni .... ψ	20. 37. 48·01	1856·7	17	+ 3·570	−0·0168	− 0·007	0·09588	0·05798	1·45592	0·07172	86·479	115. 46. 15·97	1856·7	17
1709	4·3*	2 Aquarii .... ε	20. 40. 5·64	1857·6	42	3·253	−0·0084	− 0·001	0·09466	0·06000	1·45106	0·07644	86·493	100. 0. 20·43	1857·0	21
1710	3·2*	53 Cygni .... ε	20. 40. 32·79	1860·7	4	2·397	+0·0029	+ 0·029	0·09743	0·05649	1·43770	0·08933	86·655	56. 33. 8·20	1860·7	12
1711	4·5	Microscopii .... α	20. 41. 12·85	1858·3	12	+ 3·767	−0·0240	+ 0·021	0·09768	0·05631	1·45890	0·06841	86·448	124. 17. 38·92	1858·3	12
1712	5	Piazzi XX. 332	20. 41. 52·44	1859·7	3	1·501	−0·0045	− 0·005	0·10709	0·04402	1·42326	0·10272	86·870	32. 55. 17·50	1859·7	3
1713	5·4*	54 Cygni .... λ	20. 41. 57·31	1859·5	2	2·334	+0·0031	+ 0·001	0·09812	0·05590	1·43670	0·09041	86·643	54. 1. 19·90	1859·5	3
1714	4·3*	3 Cephei........... η	20. 42. 26·19	1857·9	32	1·218	−0·0111	+ 0·014	0·11071	0·03926	1·41860	0·10696	86·932	28. 42. 14·99	1858·1	49
1715	6*	15 Delphini	20. 42. 57·41	1860·7	4	2·856	−0·0009	+ 0·006	0·09499	0·06008	1·44492	0·08252	86·520	77. 58. 33·91	1860·7	4
1716	4·5*	18 Capricorni........ ω	20. 43. 27·54	1856·7	9	+ 3·597	−0·0184	− 0·003	0·09662	0·05813	1·45632	0·07091	86·440	117. 26. 23·04	1856·7	9
1717	6	Piazzi XX. 339	20. 44. 48·17	1855·7	5	3·526	−0·0163	+ 0·011	0·09629	0·05880	1·45525	0·07194	86·434	114. 18. 17·68	1855·7	5
1718	5·4*	6 Aquarii .... μ	20. 45. 5·90	1860·2	5	3·240	−0·0083	0·000	0·09503	0·06040	1·45087	0·07651	86·451	99. 30. 21·67	1860·2	5
1719	6*	19 Capricorni..........	20. 46. 52·92	1856·7	5	3·405	−0·0128	0·000	0·09579	0·05978	1·45339	0·07380	86·424	108. 27. 3·83	1856·7	6
1720	8	Groombridge 3313...	20. 47. 5·42	1859·7	4	1·920	+0·0017	..	0·10308	0·05076	1·43007	0·09737	86·616	40. 52. 8·38	1859·7	3

1681, 1687, 1708, 1711, 1716, and 1717. These stars are respectively identical with Lacaille 8463, 8480, 8553, 8579, 8601, and 8612.
1698 and 1707. These stars are respectively identical with Schwerd 1244, and 1230.
1711. The designating letter is Lacaille's.

† For No. 1698, log. e = 0·47705, log. f = − 0·05133, log. g = − 1·26844, log. h = 0·47698, l = 110^s·437.

Annual Precession in N.P.D. for 1860, from Peters' Elements.	Secular Variation of Precession in N.P.D.	Annual Proper Motion in N.P.D. from Main or B.A.C.	Logarithms of e′	f′	g′	h′	Value of l′	No. in Bessel's Bradley. 1755.	No. in Lalande Fedorenko (F.) 1790, or British Association (B.A.) 1800.	Hour and No. in Piazzi. 1800.	No. in Groombridge. 1810.	Hour and No. in Weisse's Bessel. 1825.	No. in Argelander. 1830.	No. in Pond's 1112. 1830.	No. in First Cambridge Catalogue. 1830.	No. in Johnson's (St. Helena). 1830.	No. in Fallows. 1830.	No. in Struve. 1830.	No.
″	″	″					″			XX.		XX.							
−11·60	−0·415	+ 0·04	0·04801	0·15368	1·12722	9·58446	120·776	..	39371 (B.A.)	146	..	..	..	..	611	..	..	..	1681
11·67	0·367	− 0·02	9·91078	0·09132	1·12482	9·58742	133·127	2633	39422 (B.A.)	157	..	542	..	906	..	515	332	..	1682
11·67	0·433	..	0·08778	0·17241	1·12472	9·58756	116·553	..	...	..	..	..	..	..	..	..	..	..	1683
11·70	0·211	− 0·04	9·48087	9·88098	1·12386	9·58859	157·773	2639	{3460 (F.) 39492 (B.A.)}	169	3186	..	..	..	..	..	..	..	1684
11·77	0·284	− 0·01	9·62335	9·95788	1·12173	9·59120	151·173	2637	39502 (B.A.)	173	..	..	..	907	..	..	..	..	1685
−11·79	−0·418	..	0·06221	0·16180	1·12103	9·59205	119·235	..	39471 (B.A.)	165	..	..	..	..	..	..	..	..	1686
11·83	0·417	+ 0·12	0·06247	0·16229	1·11970	9·59368	119·188	..	39493 (B.A.)	170	..	..	..	..	..	..	..	..	1687
11·83	0·212	..	9·48657	9·87863	1·11959	9·59382	157·814	..	39572 (B.A.)	..	..	..	..	..	..	..	..	..	1688
11·91	0·213	− 0·02	9·49122	9·87816	1·11695	9·59703	157·775	2645	{3473 (F.) 39618 (B.A.)}	192	3201	..	..	908	..	..	..	..	1689
11·97	0·330	+ 0·02	9·79449	0·03657	1·11507	9·59930	141·652	2642	39607 (B.A.)	191	..	658	..	909	..	..	..	..	1690
−12·00	−0·210	+ 0·03	9·49332	9·87517	1·11398	9·60065	157·891	2647	{3482 (F.) 39673 (B.A.)}	203	3210	..	..	910	..	..	..	2491	1691
12·02	0·113	+ 0·02	9·46150	9·82512	1·11344	9·60132	160·487	2651	3491 (F.)	211	3218	..	468	911	..	..	..	..	1692
12·11	0·392	..	0·01444	0·14200	1·11028	9·60517	123·945	..	...	..	..	..	..	..	..	..	..	..	1693
12·12	0·392	..	0·01473	0·14219	1·11004	9·60544	123·915	..	...	..	..	..	..	..	..	..	..	..	1694
12·12	0·321	− 0·02	9·76634	0·02190	1·10981	9·60572	143·572	2648	39716 (B.A.)	207	..	..	..	912	..	..	..	..	1695
−12·16	−0·392	..	0·01511	0·14265	1·10863	9·60713	123·867	..	...	..	..	..	..	..	..	..	..	..	1696
12·17	−0·391	..	0·01385	0·14213	1·10826	9·60756	123·987	..	...	..	..	..	..	..	..	..	..	..	1697
12·27	+ 5·029	..	9·60152	9·76950	1·10469	9·61185	159·809	..	...	..	3402	..	..	..	..	..	..	..	1698
12·29	−0·352	− 0·02	9·89653	0·08526	1·10430	9·61233	134·381	2654	39803 (B.A.)	224	..	783	..	913	..	519	..	..	1699
12·31	0·382	+ 0·03	9·99651	0·13465	1·10350	9·61327	125·623	2652	39806 (B.A.)	225	..	..	..	..	..	..	..	..	1700
−12·35	−0·388	− 0·02	0·01724	0·14513	1·10197	9·61511	123·586	2657	39833 (B.A.)	233	..	..	..	916	615	520	..	..	1701
12·36	0·320	− 0·04	9·77952	0·02659	1·10186	9·61525	142·894	2662	39855 (B.A.)	239	..	815	..	918	..	..	..	..	1702
12·39	0·314	− 0·01	9·75846	0·01556	1·10080	9·61655	144·279	2667	39880 (B.A.)	247	..	..	..	..	..	..	..	..	1703
12·43	−0·313	− 0·03	9·75815	0·01507	1·09948	9·61808	144·327	2670	39907 (B.A.)	254	..	..	..	919	..	..	..	..	1704
12·44	+ 0·086	+ 0·03	9·51587	9·77993	1·09905	9·61862	161·275	2682	3527 (F.)	279	3251	..	..	921	..	..	..	..	1705
−12·67	−0·226	0·00	9·53882	9·87800	1·09107	9·62807	157·061	2679	{3531 (F.) 40049 (B.A.)}	285	3257	..	474	923	617	..	..	2512	1706
12·68	+ 0·393	+ 0·01	9·56407	9·76020	1·09064	9·62861	161·029	2704	{3572 (F.) 40231 (B.A.)}	331	3276	..	..	..	..	..	..	..	1707
12·74	−0·397	+ 0·17	0·05877	0·16916	1·08837	9·63125	119·068	2676	40039 (B.A.)	282	..	..	..	924	618	521	340	..	1708
12·90	0·358	+ 0·01	9·95698	0·11783	1·08285	9·63773	129·187	2681	40117 (B.A.)	299	..	1014	..	925	..	522	341	..	1709
12·93	0·262	− 0·32	9·61962	9·92669	1·08178	9·63898	153·097	2689	...	313	..	..	476	929	..	..	..	2521	1710
−12·97	−0·413	+ 0·15	0·10425	0·19437	1·08016	9·64085	113·739	..	...	307	..	..	..	928	..	524	342	..	1711
13·02	0·161	+ 0·19	9·51268	9·81634	1·07856	9·64271	160·121	..	3567 (F.)	332	3281	..	..	931	..	..	..	..	1712
13·02	0·253	− 0·06	9·60423	9·91303	1·07839	9·64292	154·126	2692	40206 (B.A.)	323	..	..	477	930	..	..	..	..	1713
13·05	0·129	− 0·87	9·51282	9·79871	1·07723	9·64426	160·775	2698	3576 (F.)	338	3286	..	478	932	..	..	..	2524	1714
13·09	0·310	− 0·30	9·79085	0·02700	1·07598	9·64571	142·600	2693	40230 (B.A.)	330	..	..	..	..	..	..	..	..	1715
−13·12	−0·391	+ 0·03	0·06569	0·17650	1·07476	9·64711	118·035	2690	40219 (B.A.)	328	..	..	..	..	..	..	..	..	1716
13·21	0·381	+ 0·11	0·04692	0·16763	1·07149	9·65088	120·034	..	40274 (B.A.)	339	..	..	..	..	620	..	..	..	1717
13·23	0·350	+ 0·04	9·95231	0·11689	1·07076	9·65172	129·545	2696	...	345	..	1146	..	933	..	526	..	..	1718
13·35	0·365	− 0·04	0·01055	0·14941	1·06643	9·65669	123·796	2700	40353 (B.A.)	362	..	..	..	934	621	..	..	..	1719
13·36	0·203	..	9·54667	9·84275	1·06594	9·65724	158·468	..	40428 (B.A.)	..	3313	..	..	..	..	..	..	..	1720

The magnitudes of Stars taken from Argelander are marked with Asterisks. Other magnitudes are taken in the order of preference from the British Association Catalogue of 8377 Stars; from the Catalogue of Lalande published by the British Association; from Weisse's *Catalogus Stellarum ex Zonis Regiomontanis*; or, for the variable stars, from Mr. Pogson's lists in the "Radcliffe Observations, 1854 and 1856." The authorities for any remaining magnitudes are given in the Notes.

No.	Magnitude.	Star's Name.	Mean Right Ascension, 1860, Jan. 1, from Observations, 1854 to 1860.	Mean Year and Fraction of Year.	Number of Observations.	Annual Precession in R.A. for 1860, from Peters' Elements.	Secular Variation of Precession in R.A.	Annual Proper Motion in R.A. from Main or B.A.C.	Logarithms of e	f	g	h	Value of l	Mean North Polar Distance, 1860, Jan. 1, from Observations, 1854 to 1860.	Mean Year and Fraction of Year.	Number of Observations.
			h m s			s	s	s					s	° ′ ″		
1721	9	Lalande 40436	20. 47. 15·93	1859·7	2	+ 1·919	+0·0017	..	0·10311	0·05077	1·43005	0·09741	86·613	40. 49. 39·12	1859·7	2
1722	5·6*	57 Cygni	20. 48. 17·83	1859·7	4	2·118	+0·0031	− 0·001	0·10104	0·05361	1·43326	0·09445	86·551	46. 8. 29·37	1859·7	4
1723	5·6*	32 Vulpeculæ	20. 48. 35·66	1857·3	65	2·555	+0·0026	− 0·002	0·09707	0·05853	1·44021	0·08754	86·481	62. 28. 22·87	1857·3	63
1724	8	Groombridge 3327...	20. 49. 21·43	1859·7	5	1·935	+0·0019	..	0·10327	0·05111	1·43032	0·09749	86·553	40. 59. 50·62	1859·7	5
1725	..	......	20. 50. 21·12	1854·7	2	3·377	−0·0122	..	0·09595	0·06017	1·45297	0·07409	86·401	107. 13. 50·92	1854·7	3
1726	6*	Bradley 2720	20. 51. 6·27	1860·7	6	+ 2·024	+0·0028	..	0·10252	0·05247	1·43175	0·09635	86·495	43. 7. 3·07	1860·7	6
1727	6	20 Capricorni..........	20. 51. 38·58	1855·7	5	3·420	−0·0136	+ 0·006	0·09628	0·06001	1·45363	0·07330	86·390	109. 34. 30·72	1855·7	5
1728	4*	58 Cygni .... ν	20. 51. 57·28	1855·7	2	+ 2·233	+0·0037	+ 0·001	0·10034	0·05528	1·43509	0·09307	86·454	49. 22. 12·34	1855·6	1
1729	6*	76 Draconis...........	20. 52. (29.)	..	..	− 3·880	−0·5151	+ 0·006	0·18415	9·92923	1·32469	0·18317	87·097	7. 59. 26·17	1860·7	4
1730	5	Bradley 2727	20. 52. 32·34	1859·7	4	+ 1·606	−0·0026	..	0·10797	0·04618	1·42498	0·10328	86·500	33. 39. 1·15	1859·7	3
1731	6	21 Capricorni..........	20. 52. 58·72	1857·5	13	+ 3·390	−0·0128	0·000	0·09624	0·06029	1·45316	0·07376	86·379	108. 4. 26·99	1857·7	12
1732	5	Bradley 2749	20. 53. 48·89	1856·5	7	− 2·446	−0·3054	− 0·008	0·16582	9·96398	1·35322	0·16458	86·782	9. 58. 29·88	1857·4	26
1733	5·6	59 Cygni........... f¹	20. 55. 3·96	1858·5	29	+ 2·037	+0·0031	− 0·005	0·10298	0·05286	1·43196	0·09671	86·394	43. 1. 27·12	1858·9	18
1734	6	Bradley 2748	20. 56. (20.)	..	..	− 0·611	−0·1144	..	0·14107	0·00441	1·38720	0·13920	86·437	14. 36. 59·99	1856·6	2
1735	5·6*	22 Capricorni........ η	20. 56. 25·89	1857·2	5	+ 3·429	−0·0143	− 0·006	0·09675	0·06029	1·45376	0·07289	86·355	110. 24. 21·13	1857·2	5
1736	7·8	Piazzi XX. 443	20. 56. 59·66	1855·6	2	+ 3·378	−0·0127	+ 0·006	0·09651	0·06065	1·45298	0·07377	86·350	107. 43. 0·11	1855·6	3
1737	4*	23 Capricorni........ θ	20. 58. 4·34	1856·9	41	+ 3·378	−0·0128	+ 0·004	0·09660	0·06073	1·45298	0·07372	86·342	107. 47. 12·06	1857·1	34
1738	..	......	20. 58. 34·71	1855·6	1	− 2·344	−0·3039	..	0·16752	9·96659	1·35518	0·16636	86·228	9. 57. 38·84	1855·6	2
1739	5*	24 Capricorni .... A	20. 58. 55·94	1855·7	5	+ 3·526	−0·0178	+ 0·002	0·09761	0·05975	1·45525	0·07098	86·342	115. 33. 45·12	1855·7	5
1740	4*	62 Cygni........... ξ	20. 59. 50·46	1858·3	22	2·178	+0·0041	+ 0·001	0·10202	0·05504	1·43422	0·09499	86·276	46. 37. 44·92	1858·5	19
1741	6*	25 Capricorni .... χ	21. 0. 32·17	1857·8	3	+ 3·448	−0·0153	− 0·001	0·09722	0·06045	1·45406	0·07230	86·328	111. 45. 12·95	1857·8	3
1742	5·6*	61 Cygni (1st Star)	21. 0. 37·43	1857·0	51	2·334	+0·0043	+ 0·339	0·10038	0·05702	1·43670	0·09237	86·266	51. 56. 13·50	1857·2	53
1743	5·6*	61 Cygni (2nd Star)....	21. 0. 38·95	1856·9	48	2·334	+0·0043	+ 0·345	0·10038	0·05702	1·43670	0·09237	86·266	51. 56. 19·47	1857·0	44
1744	5·6*	63 Cygni........... f²	21. 1. 46·84	1856·0	5	2·063	+0·0037	− 0·002	0·10373	0·05358	1·43238	0·09730	86·218	42. 54. 46·24	1855·8	3
1745	4·5*	13 Aquarii .... ν	21. 1. 57·89	1860·0	6	3·270	−0·0098	+ 0·001	0·09642	0·06155	1·45133	0·07553	86·306	101. 56. 9·75	1860·0	6
1746	5·4*	5 Equulei .... γ	21. 3. 31·95	1859·6	1	+ 2·915	−0·0013	+ 0·009	0·09640	0·06181	1·44584	0·08209	86·263	80. 25. 48·90	1859·6	2
1747	..	......	21. 4. 17·32	1854·6	1	3·349	−0·0123	..	0·09695	0·06135	1·45253	0·07396	86·295	106. 36. 43·33	1854·6	1
1748	..	......	21. 5. 5·47	1855·7	2	3·368	−0·0130	..	0·09711	0·06131	1·45283	0·07357	86·288	107. 45. 2·84	1855·7	2
1749	3*	64 Cygni............ ζ	21. 6. 58·75	1856·9	84	2·550	+0·0038	− 0·003	0·09895	0·05972	1·44013	0·08907	86·166	60. 20. 44·25	1856·9	93
1750	5·6*	28 Capricorni .... φ	21. 7. 39·44	1855·7	7	3·427	−0·0152	+ 0·001	0·09769	0·06112	1·45373	0·07228	86·277	111. 13. 48·81	1855·7	7
1751	5·4*	7 Equulei .... δ	21. 7. 39·68	1860·5	9	+ 2·920	−0·0013	+ 0·008	0·09669	0·06214	1·44592	0·08210	86·214	80. 33. 30·37	1860·4	10
1752	6*	29 Capricorni	21. 7. 59·63	1858·5	1	3·329	−0·0119	− 0·001	0·09714	0·06175	1·45223	0·07418	86·261	105. 45. 1·85	1858·5	1
1753	6·7	Groombridge 3415...	21. 8. 14·30	1859·7	4	1·531	−0·0040	+ 0·011	0·11257	0·04561	1·42376	0·10808	85·933	30. 35. 17·63	1859·7	4
1754	..	......	21. 8. 35·40	1854·6	1	3·340	−0·0123	..	0·09725	0·06173	1·45241	0·07393	86·260	106. 26. 32·29	1854·6	1
1755	4*	8 Equulei .... α	21. 8. 49·43	1857·9	41	2·998	−0·0028	+ 0·002	0·09660	0·06241	1·44713	0·08063	86·210	85. 19. 44·18	1857·5	24
1756	4*	65 Cygni .... τ	21. 9. 12·24	1860·1	9	+ 2·378	+0·0049	+ 0·013	0·10096	0·05807	1·43739	0·09255	86·089	52. 33. 2·75	1860·2	11
1757	5*	4 Piscis Australis	21. 9. 26·30	1859·6	2	3·655	−0·0092	+ 0·001	0·09979	0·05930	1·45720	0·06761	86·287	122. 45. 17·10	1859·6	2
1758	8·9	W. B. XXI. 198	21. 9. 46·66	1855·7	4	2·998	−0·0028	..	0·09666	0·06249	1·44713	0·08063	86·201	85. 19. 47·78	1855·7	4
1759	9	Lalande 41317	21. 10. 5·32	1854·6	8	3·339	−0·0123	..	0·09736	0·06186	1·45238	0·07389	86·248	106. 28. 25·25	1854·6	6
1760	4·5*	67 Cygni .... σ	21. 11. 55·18	1859·7	3	2·352	+0·0052	+ 0·003	0·10160	0·05794	1·43699	0·09337	86·025	51. 11. 26·38	1859·7	3

1729 and 1732. These stars are respectively identical with Schwerd 1248, and 1249. 1739 and 1757. These stars are respectively identical with Lacaille 8689, and 8761.

Annual Precession in N.P.D. for 1860, from Peters' Elements.	Secular Variation of Precession in N.P.D.	Annual Proper Motion in N.P.D. from Main or B.A.C.	Logarithms of e′	f′	g′	h′	Value of l′	No. in Bessel's Bradley. 1755.	No. in Lalande Fedorenko (F.) 1790, or British Association (B.A.) 1800.	Hour and No. in Piazzi. 1800.	No. in Groombridge. 1810.	Hour and No. in Weisse's Bessel. 1825.	No. in Argelander. 1830.	No. in Pond's 1112. 1830.	No. in First Cambridge Catalogue. 1830.	No. in Johnson's (St. Helena). 1830.	No. in Fallows. 1830.	No. in Struve. 1830.	No.
″	″	″					″			XX.		XX.							
−13·37	−0·203	..	9·54704	9·84232	1·06550	9·65775	158·481	..	40436 (B.A.)	..	..	..	..	..	..	..	..	..	1721
13·44	0·224	0·00	9·57159	9·86674	1·06298	9·66061	156·967	2710	...	383	3317	..	..	935	..	..	..	..	1722
13·46	0·271	0·00	9·67440	9·94929	1·06225	9·66144	150·628	2709	40456 (B.A.)	379	..	..	..	936	..	..	..	..	1723
13·51	0·203	..	9·55315	9·83993	1·06040	9·66352	158·462	..	{ 3610 (F.) 40516 (B.A.) }	..	3327	..	..	..	..	..	..	..	1724
13·57	0·357	..	0·00156	0·14628	1·05796	9·66629	124·591	..	...	..	..	..	..	..	..	..	..	..	1725
−13·62	−0·211	−0·22	9·56538	9·84774	1·05613	9·66836	157·898	2720	40581 (B.A.)	..	..	..	..	..	..	..	..	..	1726
13·66	0·360	+0·05	0·01565	0·15480	1·05478	9·66987	123·073	2713	40548 (B.A.)	395	..	..	..	..	..	..	..	..	1727
13·68	−0·232	−0·01	9·59583	9·87851	1·05405	9·67070	155·940	2724	40619 (B.A.)	410	3338	..	..	937	..	..	..	..	1728
13·71	+0·419	0·00	9·62003	9·71857	1·05273	9·67218	161·199	2754	3664 (F.)	463	3370	..	..	939	..	..	..	..	1729
13·71	−0·165	+0·04	9·54667	9·79793	1·05261	9·67232	160·197	2727	3626 (F.)	..	3346	..	..	938	626	..	..	..	1730
−13·74	−0·354	−0·03	0·00578	0·14998	1·05150	9·67355	124·053	2718	40613 (B.A.)	409	..	..	..	..	625	..	346	..	1731
13·80	+0·265	..	9·61278	9·71813	1·04942	9·67589	161·387	2749	{ 3659 (F.) 40867 (B.A.) }	..	3373	..	480	941	..	..	..	..	1732
13·87	−0·209	+0·01	9·57519	9·84151	1·04638	9·67927	157·946	2732	...	437	3362	..	..	..	..	..	..	2539	1733
13·95	+0·070	−0·05	9·59704	9·72166	1·04325	9·68276	161·647	2748	{ 3669 (F.) 40895 (B.A.) }	..	3377	..	..	..	..	..	..	..	1734
13·96	−0·353	+0·05	0·01853	0·15914	1·04300	9·68303	122·546	2729	40753 (B.A.)	436	..	..	..	940	627	527	348	..	1735
−14·00	−0·347	−0·07	0·00199	0·14994	1·04160	9·68457	124·278	..	40774 (B.A.)	443	..	..	..	..	..	..	..	..	1736
14·06	−0·345	+0·05	0·00199	0·15050	1·03896	9·68748	124·231	2733	40814 (B.A.)	451	..	..	..	942	628	..	..	..	1737
14·09	+0·249	..	9·62757	9·70577	1·03768	9·68890	161·397	..	...	..	..	..	..	..	..	..	..	..	1738
14·12	−0·359	+0·02	0·04735	0·17717	1·03684	9·68986	119·224	2737	40840 (B.A.)	456	..	..	..	..	..	..	..	..	1739
14·17	0·219	−0·02	9·60054	9·85419	1·03458	9·69230	156·861	2746	40928 (B.A.)	472	3385	..	..	943	..	..	..	2551	1740
−14·21	−0·349	+0·03	0·02465	0·16513	1·03284	9·69420	121·669	2741	40909 (B.A.)	469	..	..	..	944	629	..	..	..	1741
14·22	0·234	−3·22	9·62696	9·88244	1·03263	9·69442	155·033	2744	40939 (B.A.)	475	..	..	481	945	..	..	..	2555	1742
14·22	0·234	−3·00	9·62696	9·88240	1·03255	9·69452	155·033	2745	40940 (B.A.)	476	..	..	482	946	..	..	..	..	1743
14·29	0·205	0·00	9·59184	9·83131	1·02973	9·69759	157·969	2750	{ 3688 (F.) 41013 (B.A.) }	491	3394	..	..	948	..	..	..	..	1744
14·30	0·328	+0·01	9·96393	0·12952	1·02926	9·69809	127·994	2747	40974 (B.A.)	485	..	XXI. 2	..	947	630	528	349	..	1745
−14·40	−0·290	+0·17	9·81717	0·03370	1·02536	9·70233	141·254	2751	41047 (B.A.)	XXI. 6	..	..	..	949	..	..	..	..	1746
14·44	0·333	..	9·99238	0·14797	1·02349	9·70434	124·963	..	...	..	..	..	..	..	..	..	..	..	1747
14·49	0·333	..	9·99887	0·15238	1·02149	9·70650	124·230	..	...	..	..	..	..	..	..	..	..	..	1748
14·61	0·249	+0·07	9·68476	9·92413	1·01674	9·71160	151·568	2760	41215 (B.A.)	35	..	..	..	950	..	..	..	..	1749
14·65	0·335	−0·07	0·01824	0·16568	1·01506	9·71340	121·970	2758	...	33	..	..	..	951	633	..	..	..	1750
−14·65	−0·285	+0·28	9·81948	0·03355	1·01502	9·71344	141·149	2761	41235 (B.A.)	38	..	143	484	952	..	..	..	2572	1751
14·67	0·325	−0·01	9·98565	0·14567	1·01422	9·71429	125·501	2759	41232 (B.A.)	37	..	..	..	953	634	529	350	..	1752
14·68	0·146	+0·04	9·59406	9·75571	1·01360	9·71496	160·586	..	3729 (F.)	51	3415	..	..	955	..	..	..	2576	1753
14·70	0·325	..	9·98963	0·14848	1·01272	9·71588	125·047	..	...	..	..	..	..	..	..	..	..	..	1754
14·72	0·291	+0·09	9·85260	0·05702	1·01215	9·71653	138·331	2764	41274 (B.A.)	47	..	170	..	954	..	..	..	..	1755
−14·74	−0·229	−0·47	9·64650	9·87687	1·01117	9·71754	154·735	2767	41320 (B.A.)	54	..	..	486	957	..	..	..	..	1756
14·75	0·355	+0·04	0·07968	0·20358	1·01055	9·71820	114·654	2762	...	46	..	..	..	956	..	530	..	..	1757
14·77	0·289	..	9·85278	0·05693	1·00974	9·71905	138·321	..	...	..	..	198	..	..	..	..	..	..	1758
14·79	0·323	..	9·98914	0·14893	1·00895	9·71990	125·023	..	41317 (B.A.)	..	..	..	..	..	..	..	..	..	1759
14·90	0·223	+0·01	9·64572	9·86589	1·00434	9·72476	155·199	2769	41414 (B.A.)	74	3423	..	..	959	..	..	..	..	1760

The magnitudes of Stars taken from Argelander are marked with Asterisks. Other magnitudes are taken in the order of preference from the British Association Catalogue of 8377 Stars; from the Catalogue of Lalande published by the British Association; from Weisse's *Catalogus Stellarum ex Zonis Regiomontanis*; or, for the variable stars, from Mr. Pogson's lists in the "Radcliffe Observations, 1854 and 1856." The authorities for any remaining magnitudes are given in the Notes.

No.	Magnitude.	Star's Name.	Mean Right Ascension, 1860, Jan. 1, from Observations, 1854 to 1860.	Mean Year and Fraction of Year.	Number of Observations.	Annual Precession in R.A. for 1860, from Peters' Elements.	Secular Variation of Precession in R.A.	Annual Proper Motion in R.A. from Main or B.A.C.	Logarithms of e	Logarithms of f	Logarithms of g	Logarithms of h	Value of l	Mean North Polar Distance, 1860, Jan. 1, from Observations, 1854 to 1860.	Mean Year and Fraction of Year.	Number of Observations.
			h m s			s	s	s					s	° ′ ″		
1761	8·9	Lalande 41445	21. 13. 45·63	1860·7	2	+ 3·323	−0·0120	..	0·09755	0·06222	1·45213	0·07406	86·218	105. 44. 49·04	1860·7	2
1762	Var.	......	21. 14. 12·27	1860·8	2	3·321	−0·0120	..	0·09758	0·06226	1·45210	0·07408	86·214	105. 41. 11·61	1860·8	2
1763	4·5*	32 Capricorni .... ι	21. 14. 26·78	1857·5	48	3·350	−0·0130	0·000	0·09775	0·06213	1·45255	0·07346	86·217	107. 25. 42·36	1857·5	33
1764	7	Bradley 2773	21. 14. 27·57	1860·6	1	3·227	−0·0089	+ 0·001	0·09719	0·06268	1·45066	0·07600	86·195	99. 55. 10·55	1860·6	1
1765	6	Groombridge 3432...	21. 14. 39·83	1859·8	7	2·059	+ 0·0047	..	0·10591	0·05423	1·43231	0·09948	85·865	41. 4. 50·87	1859·8	7
1766	3·2*	5 Cephei .... α	21. 15. 14·13	1857·3	62	+ 1·416	−0·0071	+ 0·021	0·11623	0·04395	1·42187	0·11204	85·609	28. 0. 24·59	1857·3	89
1767	6*	17 Aquarii	21. 15. 25·71	1860·7	4	3·226	−0·0089	− 0·003	0·09725	0·06277	1·45064	0·07600	86·187	99. 54. 50·02	1860·7	4
1768	6·5*	Groombridge 3435...	21. 15. 28·66	1859·7	2	2·069	+ 0·0048	..	0·10591	0·05441	1·43247	0·09943	85·844	41. 14. 25·42	1859·7	2
1769	6*	6 Cephei	21. 16. 27·52	1859·7	3	1·255	−0·0123	+ 0·003	0·11931	0·04117	1·41922	0·11549	85·488	25. 43. 15·87	1859·7	7
1770	6	Groombridge 3441 ...	21. 17. 8·81	1859·7	5	2·076	+ 0·0050	..	0·10608	0·05461	1·43259	0·09958	85·798	41. 12. 35·75	1859·7	6
1771	7·8	Groombridge 3447...	21. 17. 37·87	1859·7	4	+ 2·075	+ 0·0050	..	0·10620	0·05462	1·43257	0·09968	85·784	41. 6. 21·16	1859·7	4
1772	6·5*	19 Aquarii	21. 17. 41·38	1860·7	5	3·238	−0·0092	+ 0·001	0·09742	0·06293	1·45084	0·07582	86·160	100. 20. 33·12	1860·7	5
1773	9	Groombridge 3450...	21. 18. 1·81	1859·7	4	2·081	+ 0·0051	..	0·10617	0·05472	1·43266	0·09963	85·777	41. 13. 12·03	1859·7	5
1774	6*	Piazzi XXI. 120	21. 18. (21.)	..	..	2·657	+ 0·0036	− 0·005	0·09908	0·06149	1·44181	0·08789	85·994	64. 25. 34·60	1858·7	2
1775	4*	34 Capricorni .... ζ	21. 18. 40·08	1856·3	7	3·440	−0·0167	− 0·002	0·09872	0·06188	1·45392	0·07130	86·204	113. 0. 55·63	1856·3	7
1776	9	Groombridge 3457...	21. 19. 54·25	1859·7	3	+ 2·090	+ 0·0053	..	0·10635	0·05496	1·43281	0·09978	85·725	41. 12. 36·52	1859·7	4
1777	3*	22 Aquarii .... β	21. 24. 11·15	1857·7	57	3·163	−0·0072	− 0·001	0·09766	0·06364	1·44968	0·07715	86·095	96. 11. 6·34	1857·4	35
1778	5*	71 Cygni .... g^1	21. 24. 17·00	1855·8	4	2·205	+ 0·0064	− 0·002	0·10535	0·05683	1·43464	0·09814	85·658	44. 4. 31·87	1855·7	3
1779	..	Cygni .... g^2	21. 24. 22·16	1855·8	1	2·205	+ 0·0064	..	0·10537	0·05683	1·43465	0·09815	85·655	44. 4. 39·60	1855·8	1
1780	6*	7 Cephei.............	21. 25. 3·63	1860·7	1	1·175	−0·0161	− 0·003	0·12349	0·04006	1·41789	0·11989	85·004	23. 48. 3·49	1860·7	1
1781	..	Cephei .... β^1	21. 26. 47·99	1856·4	14	+ 0·802	−0·0342	..	0·13118	0·03322	1·41166	0·12819	84·650	20. 3. 17·05	1857·0	15
1782	3*	8 Cephei .... β^2	21. 26. 50·41	1856·7	64	0·802	−0·0342	0·000	0·13118	0·03322	1·41166	0·12819	84·650	20. 3. 12·62	1856·8	100
1783	5	Groombridge 3489...	21. 27. 8·68	1859·8	3	1·648	−0·0009	..	0·11537	0·04840	1·42567	0·11064	85·214	30. 9. 25·94	1859·7	5
1784	4·5*	73 Cygni............ ρ	21. 28. 43·12	1859·7	3	+ 2·253	+ 0·0070	− 0·003	0·10532	0·05775	1·43541	0·09781	85·565	45. 1. 33·67	1859·7	3
1785	5·6	Groombridge 3511...	21. 28. 49·20	1860·6	2	− 1·534	−0·2677	+ 0·119	0·17635	9·98527	1·37044	0·17497	82·749	10. 5. 12·52	1860·6	2
1786	5·6	Groombridge 3508...	21. 29. 1·17	1860·8	1	− 0·160	−0·1059	+ 0·001	0·15065	0·01445	1·39516	0·14865	83·776	14. 12. 43·08	1860·7	3
1787	5·4*	39 Capricorni .... ε	21. 29. 14·14	1854·8	1	+ 3·371	−0·0149	− 0·002	0·09905	0·06318	1·45287	0·07214	86·118	110. 5. 27·94	1857·2	2
1788	5·4*	23 Aquarii........... ξ	21. 30. 17·76	1857·7	41	3·193	−0·0082	+ 0·004	0·09813	0·06409	1·45014	0·07632	86·053	98. 28. 48·43	1857·3	20
1789	6·5*	4 Pegasi	21. 31. 31·14	1859·7	4	2·999	−0·0023	+ 0·006	0·09808	0·06431	1·44715	0·08091	85·957	84. 51. 29·22	1859·7	4
1790	4·3*	40 Capricorni........ γ	21. 32. 19·77	1857·9	16	3·322	−0·0131	+ 0·013	0·09893	0·06372	1·45212	0·07313	86·082	107. 17. 33·24	1857·8	17
1791	8·9	Lalande 42191	21. 32. 31·46	1857·6	1	+ 3·007	−0·0025	..	0·09813	0·06441	1·44727	0·08074	85·948	85. 22. 10·55	1857·6	1
1792	7	Groombridge 3524...	21. 33. 27·35	1859·9	3	2·149	+ 0·0071	..	0·10783	0·05658	1·43375	0·10102	85·350	40. 50. 6·46	1859·9	3
1793	5*	42 Capricorni..........	21. 33. 55·87	1860·8	3	3·280	−0·0115	− 0·007	0·09878	0·06408	1·45148	0·07408	86·054	104. 40. 12·02	1860·8	3
1794	5·6*	41 Capricorni..........	21. 34. 2·08	1859·8	3	3·424	−0·0176	+ 0·010	0·09989	0·06319	1·45369	0·07050	86·105	113. 53. 40·22	1859·8	3
1795	5·6*	9 Cephei.............	21. 34. 9·84	1859·8	3	1·612	−0·0015	0·000	0·11799	0·04809	1·42507	0·11347	84·870	28. 32. 55·46	1859·7	5
1796	..	......	21. 34. 37·00	1855·8	1	+ 2·342	+ 0·0076	..	0·10483	0·05930	1·43684	0·09672	85·470	47. 21. 49·61	1855·8	3
1797	6·5*	75 Cygni	21. 34. 41·65	1855·9	11	2·343	+ 0·0077	+ 0·007	0·10483	0·05931	1·43684	0·09673	85·469	47. 21. 37·23	1855·8	10
1798	5*	43 Capricorni........ κ	21. 34. (50.)	..	..	3·352	−0·0145	+ 0·005	0·09934	0·06376	1·45259	0·07224	86·075	109. 30. 8·49	1859·6	1
1799	6	Groombridge 3537...	21. 35. 8·20	1859·8	4	2·162	+ 0·0074	..	0·10791	0·05687	1·43396	0·10105	85·307	40. 57. 4·62	1859·8	4
1800	6	44 Capricorni	21. 35. 25·86	1856·8	9	3·284	−0·0118	+ 0·003	0·09890	0·06419	1·45154	0·07392	86·044	105. 2. 16·03	1856·8	9

1762. This star is the variable T Capricorni; the limits of magnitude are 9 and under 14, the period 274 days.
1775 and 1794. These stars are respectively identical with Lacaille 8815 and 8893.
1792. The magnitude has been taken from Groombridge.
1785. This star is identical with Schwerd 1274.

Annual Precession in N.P.D. for 1860, from Peters' Elements.	Secular Variation of Precession in N.P.D.	Annual Proper Motion in N.P.D. from Main or B.A.C.	Logarithms of e′	Logarithms of f′	Logarithms of g′	Logarithms of h′	Value of l′	No. in Bessel's Bradley. 1755.	No. in Lalande Fedorenko (F.) 1790, or British Association (B.A.) 1800.	Hour and No. in Piazzi. 1800.	No. in Groombridge. 1810.	Hour and No. in Weisse's Bessel. 1825.	No. in Argelander. 1830.	No. in Pond's 1112. 1830.	No. in First Cambridge Catalogue. 1830.	No. in Johnson's (St. Helena). 1830.	No. in Fallows. 1830.	No. in Struve. 1830.	No.
″	″	″					″			XXI.		XXI.							
−15·01	−0·315	..	9·98340	0·14709	0·99967	9·72968	125·452	..	41445 (B.A.)	..	..	..	..	..	..	..	..	..	1761
15·03	0·314	..	9·98277	0·14693	0·99858	9·73081	125·495	..	...	..	..	..	..	..	..	..	..	..	1762
15·05	0·317	− 0·02	9·99304	0·15375	0·99795	9·73147	124·363	2772	41474 (B.A.)	84	..	..	..	961	635	532	..	..	1763
15·05	0·305	..	9·94768	0·12359	0·99792	9·73152	129·191	2773	41482 (B.A.)	..	..	..	..	..	..	..	..	..	1764
15·06	0·192	..	9·62003	9·80213	0·99745	9·73200	158·308	..	{ 3754 (F.) / 41535 (B.A.) }	..	3432	..	..	..	..	..	..	..	1765
−15·09	−0·130	− 0·01	9·61784	9·72883	0·99598	9·73353	160·816	2786	3759 (F.)	105	3437	..	489	963	636	..	..	2589	1766
15·10	0·303	+ 0·05	9·94738	0·12375	0·99548	9·73407	129·182	2776	41521 (B.A.)	92	..	338	..	..	..	..	..	..	1767
15·11	0·192	..	9·62252	9·80178	0·99535	9·73419	158·250	..	...	..	3435	..	..	..	..	..	..	..	1768
15·16	0·113	0·00	9·62531	9·71503	0·99285	9·73678	161·038	2788	3769 (F.)	117	3442	..	..	964	..	..	..	..	1769
15·20	0·191	..	9·62675	9·79924	0·99117	9·73852	158·219	..	41632 (B.A.)	..	3441	..	..	..	..	..	..	..	1770
−15·23	−0·190	..	9·62778	9·79780	0·98991	9·73986	158·238	..	{ 3771 (F.) / 41653 (B.A.) }	..	3447	..	..	..	..	..	..	..	1771
15·23	0·301	+ 0·17	9·94939	0·12596	0·98977	9·73997	128·879	2782	41605 (B.A.)	110	..	393	..	..	637	..	355	..	1772
15·25	0·191	..	9·62900	9·79791	0·98890	9·74089	158·198	..	41675 (B.A.)	..	3450	..	..	..	..	..	..	..	1773
15·27	0·245	+ 0·11	9·72329	9·94022	0·98809	9·74172	149·527	..	...	120	..	..	..	..	..	..	..	..	1774
15·29	0·318	− 0·02	0·02272	0·17553	0·98729	9·74255	120·732	2785	41638 (B.A.)	118	..	..	..	965	638	534	356	..	1775
− 15·36	−0·190	..	9·63377	9·79516	0·98417	9·74576	158·151	..	41738 (B.A.)	..	3457	..	..	..	..	..	..	..	1776
15·60	0·283	0·00	9·92236	0·10849	0·97328	9·75687	131·431	2797	41843 (B.A.)	162	..	..	..	967	641	535	357	..	1777
15·60	0·195	− 0·11	9·65011	9·80700	0·97303	9·75720	157·229	2799	{ 3811 (F.) / 41893 (B.A.) }	168	3472	..	..	968	..	..	..	..	1778
15·61	0·195	..	9·65021	9·80689	0·97283	9·75734	157·231	..	...	..	..	..	..	..	..	..	..	..	1779
15·65	0·101	+ 0·03	9·65552	9·68688	0·97105	9·75914	160·949	2805	3819 (F.)	185	3481	..	..	..	..	..	..	..	1780
−15·74	−0·066	..	9·67127	9·66529	0·96655	9·76368	161·087	..	...	..	..	..	..	..	..	..	..	..	1781
15·74	0·066	+ 0·04	9·67127	9·66529	0·96655	9·76368	161·087	2811	3835 (F.)	198	3493	..	491	969	644	..	..	2609	1782
15·76	0·142	..	9·65040	9·71653	0·96580	9·76445	160·181	..	3831 (F.)	..	3489	..	..	..	..	..	..	..	1783
15·84	−0·195	+ 0·09	9·66247	9·80737	0·96177	9·76850	156·804	2810	{ 3841 (F.) / 42070 (B.A.) }	202	3495	..	..	971	..	..	..	..	1784
15·85	+ 0·144	− 0·10	9·71650	9·62531	0·96150	9·76875	160·774	..	{ 3862 (F.) / 42215 (B.A.) }	..	3511	..	..	974	..	..	..	..	1785
−15·86	+ 0·021	+ 0·03	9·69897	9·63697	0·96100	9·76925	160·998	..	{ 3850 (F.) / 42175 (B.A.) }	..	3508	..	..	972	..	..	..	..	1786
15·87	−0·294	0·00	0·00104	0·16783	0·96045	9·76981	122·477	2806	42045 (B.A.)	197	..	..	..	970	645	536	..	..	1787
15·93	0·276	+ 0·04	9·93475	0·11964	0·95774	9·77253	129·864	2808	42098 (B.A.)	209	..	..	..	973	646	537	358	..	1788
15·99	0·257	− 0·02	9·85358	0·05256	0·95466	9·77560	138·217	2813	42156 (B.A.)	220	..	743	..	975	..	..	..	..	1789
16·04	0·284	+ 0·03	9·98421	0·15768	0·95256	9·77768	124·207	2815	42170 (B.A.)	223	..	..	494	976	648	538	359	..	1790
−16·04	−0·256	..	9·85673	0·05514	0·95209	9·77814	137·894	..	42191 (B.A.)	..	..	769	..	..	..	..	..	..	1791
16·09	0·180	..	9·66727	9·77296	0·94971	9·78049	157·789	..	3869 (F.)	..	3524	..	..	..	..	..	..	..	1792
16·12	0·278	+ 0·26	9·96890	0·14720	0·94849	9·78171	125·860	2820	42239 (B.A.)	235	..	809	495	..	..	..	360	..	1793
16·12	0·290	+ 0·05	0·01878	0·18348	0·94822	9·78197	119·969	2819	42235 (B.A.)	234	..	..	..	977	..	539	..	..	1794
16·13	0·133	0·00	9·67265	9·69334	0·94793	9·78226	160·109	2830	...	247	3535	..	..	979	..	..	..	..	1795
−16·15	−0·196	..	9·68070	9·81589	0·94675	9·78343	155·855	..	...	..	..	..	..	..	..	..	..	..	1796
16·16	0·196	− 0·03	9·68079	9·81581	0·94658	9·78359	155·853	2826	42304 (B.A.)	246	3534	..	..	..	..	..	..	..	1797
16·17	0·282	+ 0·01	9·99502	0·16704	0·94620	9·78397	122·754	2821	42255 (B.A.)	238	..	..	..	978	649	540	..	..	1798
16·18	0·179	..	9·67154	9·77132	0·94543	9·78474	157·687	..	3873 (F.)	..	3537	..	..	..	..	..	..	..	1799
16·20	0·276	− 0·03	9·97030	0·14906	0·94466	9·78549	125·595	2823	42288 (B.A.)	244	..	848	..	..	650	..	..	..	1800

The magnitudes of Stars taken from Argelander are marked with Asterisks. Other magnitudes are taken in the order of preference from the British Association Catalogue of 8377 Stars; from the Catalogue of Lalande published by the British Association; from Weisse's *Catalogus Stellarum ex Zonis Regiomontanis*; or, for the variable stars, from Mr. Pogson's lists in the "Radcliffe Observations, 1854 and 1856." The authorities for any remaining magnitudes are given in the Notes.

No.	Magnitude.	Star's Name.	Mean Right Ascension, 1860, Jan. 1, from Observations, 1854 to 1860.	Mean Year and Fraction of Year.	Number of Observations.	Annual Precession in R.A. for 1860, from Peters' Elements.	Secular Variation of Precession in R.A.	Annual Proper Motion in R.A. from Main or B.A.C.	Logarithms of c	Logarithms of f	Logarithms of g	Logarithms of h	Value of l	Mean North Polar Distance, 1860, Jan. 1, from Observations, 1854 to 1860.	Mean Year and Fraction of Year.	Number of Observations.
			h m s			s	s	s					s	° ′ ″		
1801	5*	9 Piscis Australis .... ι	21. 36. 35·75	1860·7	3	+ 3·594	−0·0261	0·000	0·10206	0·06187	1·45627	0·06596	86·137	123. 39. 44·55	1860·7	3
1802	..	......	21. 37. 4·21	1859·8	2	3·296	−0·0123	..	0·09910	0·06427	1·45173	0·07353	86·038	106. 0. 45·23	1859·8	2
1803	5·4*	80 Cygni .... π¹	21. 37. 7·59	1855·8	5	2·123	+0·0074	− 0·005	0·10897	0·05642	1·43334	0·10236	85·209	39. 26. 53·39	1855·8	5
1804	2·3*	8 Pegasi .... ε	21. 37. 18·60	1856·8	66	2·945	−0·0006	+ 0·003	0·09860	0·06469	1·44631	0·08236	85·859	80. 45. 55·01	1856·4	55
1805	5·4*	46 Capricorni .... c¹	21. 37. 32·09	1860·7	4	3·205	−0·0088	+ 0·003	0·09864	0·06469	1·45033	0·07581	85·996	99. 43. 24·66	1860·7	4
1806	7	Groombridge 3556...	21. 37. 33·08	1859·8	4	+ 2·178	+0·0078	..	0·10808	0·05724	1·43421	0·10115	85·244	41. 2. 18·02	1859·8	4
1807	5*	9 Pegasi	21. 37. 52·97	1859·7	2	2·839	+0·0020	+ 0·007	0·09922	0·06429	1·44465	0·08504	85·781	73. 17. 26·08	1859·7	2
1808	4·5*	{ 78 Cygni .... μ¹	21. 37. 52·99	1860·2	3	2·657	+0·0054	+ 0·016	0·10089	0·06299	1·44180	0·08955	85·647	61. 53. 18·75	1860·0	7
1809		{ 78 Cygni .... μ²	21. 37. 53·27	1859·9	1	2·657	+0·0054	+ 0·016	0·10089	0·06299	1·44180	0·08955	85·647	61. 53. 20·84	1859·9	1
1810	5·6*	48 Capricorni .... λ	21. 38. 59·68	1859·9	5	3·236	−0·0100	− 0·002	0·09887	0·06471	1·45081	0·07497	85·997	102. 0. 35·68	1859·9	5
1811	3*	49 Capricorni .... δ	21. 39. 18·53	1857·7	26	+ 3·304	−0·0128	+ 0·014	0·09931	0·06442	1·45185	0·07320	86·025	106. 45. 37·98	1857·7	25
1812	5·4*	Piscis Australis ... θ	21. 39. 30·56	1860·7	3	3·544	−0·0240	+ 0·002	0·10175	0·06257	1·45552	0·06690	86·109	121. 32. 39·19	1860·7	3
1813	4·5	11 Cephei	21. 39. 51·40	1860·1	3	0·883	−0·0329	+ 0·028	0·13510	0·03519	1·41302	0·13213	83·818	19. 19. 58·30	1859·9	7
1814	5	78 Draconis	21. 41. 20·77	1859·9	3	0·776	−0·0400	− 0·016	0·13814	0·03317	1·41121	0·13533	83·582	18. 19. 17·31	1859·9	3
1815	5*	10 Cephei .... ν	21. 41. 24·61	1857·6	21	1·730	−0·0455	0·000	0·11771	0·05040	1·42700	0·11289	84·644	29. 31. 27·90	1857·5	42
1816	4·5*	81 Cygni .... π²	21. 41. 37·47	1859·8	3	+ 2·209	+0·0084	0·000	0·10826	0·05793	1·43471	0·10119	85·146	41. 20. 14·48	1859·8	3
1817	5*	14 Pegasi	21. 43. 39·20	1859·7	3	2·648	+0·0062	+ 0·002	0·10156	0·06336	1·44166	0·09035	85·528	60. 28. 35·12	1859·6	8
1818	8·9	Groombridge 3577...	21. 43. 53·95	1859·7	4	2·211	+0·0088	..	0·10866	0·05809	1·43474	0·10162	85·071	40. 58. 26·70	1859·7	4
1819	..	......	21. 44. 16·71	1854·8	1	1·084	−0·0228	..	0·13273	0·03903	1·41637	0·12948	83·728	20. 34. 29·28	1854·8	1
1820	5	Groombridge 3590...	21. 44. 32·50	1855·7	9	1·079	−0·0230	+ 0·016	0·13293	0·03899	1·41629	0·12972	83·703	20. 29. 52·90	1855·7	9
1821	..	......	21. 44. 57·44	1854·8	1	+ 1·090	−0·0225	..	0·13287	0·03919	1·41647	0·12965	83·686	20. 32. 47·96	1854·8	1
1822	5*	51 Capricorni .... μ	21. 45. 39·48	1860·6	7	3·259	−0·0112	+ 0·021	0·09943	0·06519	1·45116	0·07406	85·960	104. 12. 32·27	1860·6	7
1823	..	......	21. 46. 36·19	1857·4	3	1·460	−0·0061	..	0·12523	0·04597	1·42260	0·12126	84·048	24. 30. 59·02	1857·4	3
1824	5·6	16 Pegasi	21. 46. 41·63	1858·2	50	2·725	+0·0052	+ 0·001	0·10092	0·06427	1·44288	0·08860	85·544	64. 43. 55·93	1857·8	60
1825	6*	Piazzi XXI. 320	21. 46. 51·53	1860·8	5	3·135	−0·0063	+ 0·001	0·09897	0·06568	1·44925	0·07744	85·877	94. 55. 51·76	1860·8	5
1826	..	......	21. 46. 51·67	1854·8	3	+ 1·482	−0·0053	..	0·12485	0·04636	1·42294	0·12084	84·059	24. 45. 51·58	1854·8	2
1827	5·6	13 Cephei .... μ	21. 50. 11·01	1855·9	11	2·010	+0·0080	− 0·005	0·11410	0·05542	1·43153	0·10831	84·592	34. 3. 2·18	1855·9	12
1828	7	Lalande 42837	21. 51. 44·60	1857·8	1	3·470	−0·0220	..	0·10201	0·06424	1·45439	0·06755	86·025	119. 17. 13·08	1857·8	1
1829	..	Rümker 9704	21. 52. 8·83	1855·6	1	2·928	+0·0008	..	0·09958	0·06594	1·44604	0·08334	85·655	78. 28. 25·80	1855·6	1
1830	7	Lalande 42883	21. 52. 29·22	1859·3	35	2·688	+0·0068	..	0·10203	0·06434	1·44229	0·09047	85·372	60. 50. 23·98	1859·4	38
1831	5·6	Piazzi XXI. 360	21. 52. 42·52	1854·7	4	+ 1·690	+0·0016	+ 0·013	0·12209	0·05025	1·42635	0·11760	84·015	27. 2. 25·42	1854·7	4
1832	5·6*	12 Piscis Australis ... η	21. 52. 47·12	1859·3	17	3·465	−0·0219	+ 0·003	0·10204	0·06438	1·45431	0·06760	86·015	119. 7. 25·91	1859·3	17
1833	9·10	Lalande 42919	21. 54. 15·89	1859·7	1	3·273	−0·0123	..	0·10009	0·06589	1·45137	0·07321	85·907	106. 4. 11·28	1859·7	1
1834	..	29 Aquarii (1st Star) ...	21. 54. 46·37	1854·7	3	3·293	−0·0133	0·000	0·10029	0·06582	1·45168	0·07257	85·916	107. 38. 15·68	1854·7	4
1835	6	29 Aquarii (as one mass)	21. 54. 46·63	1854·8	2	3·293	−0·0133	0·000	0·10029	0·06582	1·45168	0·07257	85·916	107. 38. 14·91	1854·7	1
1836	..	29 Aquarii (2d Star) ...	21. 54. 46·64	1854·7	3	+ 3·293	−0·0133	0·000	0·10029	0·06582	1·45168	0·07257	85·916	107. 38. 13·72	1854·7	3
1837	5·6*	30 Aquarii	21. 55. 54·48	1859·8	6	3·159	−0·0073	+ 0·003	0·09954	0·06646	1·44962	0·07656	85·816	97. 11. 50·40	1859·8	6
1838	5·4*	31 Aquarii .... o	21. 56. 4·27	1859·8	7	3·106	−0·0052	+ 0·005	0·09941	0·06657	1·44880	0·07817	85·772	92. 49. 46·27	1859·8	6
1839	5·6*	16 Cephei	21. 57. 14·04	1860·1	4	0·906	−0·0363	− 0·023	0·14327	0·03612	1·41340	0·14050	82·426	17. 29. 10·06	1860·3	10
1840	3*	34 Aquarii .... α	21. 58. 35·50	1857·1	70	3·084	−0·0042	− 0·003	0·09952	0·06681	1·44846	0·07882	85·729	90. 59. 54·48	1857·0	40

1801 and 1812. These stars are respectively identical with Lacaille 8901 and 8917.

Annual Precession in N.P.D. for 1860, from Peters' Elements.	Secular Variation of Precession in N.P.D.	Annual Proper Motion in N.P.D. from Main or B.A.C.	Logarithms of c′	Logarithms of f′	Logarithms of g′	Logarithms of h′	Value of l′	No. in Bessel's Bradley. 1755.	No. in Lalande Fedorenko (F.) 1790, or British Association (B.A.) 1800.	Hour and No. in Piazzi. 1800.	No. in Groombridge. 1810.	Hour and No. in Weisse's Bessel. 1825.	No. in Argelander. 1830.	No. in Pond's 1112. 1830.	No. in First Cambridge Catalogue. 1830.	No. in Johnson's (St. Helena). 1830.	No. in Fallows. 1830.	No. in Struve. 1830.	No.
″	″	″					″			XXI.		XXI.							
−16·26	−0·300	+ 0·11	0·06577	0·21731	0·94170	9·78840	113·828	2825	...	250	..	..	..	980	..	541	..	..	1801
16·28	0·274	..	9·97497	0·15350	0·94051	9·78957	124·937	..	...	..	..	..	..	..	..	..	..	..	1802
16·28	0·174	+ 0·01	9·67532	9·75822	0·94038	9·78970	157·970	2845	...	263	3553	..	..	982	..	..	..	..	1803
16·29	0·244	0·00	9·83129	0·02924	0·93987	9·79020	140·436	2835	42370 (B.A.)	260	..	898	..	981	..	..	..	..	1804
16·30	0·265	− 0·01	9·93982	0·12620	0·93933	9·79074	128·929	2834	42369 (B.A.)	258	..	900	..	..	..	..	361	..	1805
−16·31	−0·178	..	9·67742	9·76842	0·93927	9·79078	157·560	..	42408 (B.A.)	..	3556	..	..	..	..	..	..	..	1806
16·32	0·234	− 0·06	9·79043	9·98494	0·93843	9·79162	144·536	2837	...	264	..	..	..	983	..	..	..	..	1807
16·32	0·218	+ 0·26	9·73512	9·91194	0·93843	9·79162	150·117	2839	42404 (B.A.)	266	..	..	496	984	..	..	..	2624	1808
16·32	0·218	..	9·73512	9·91194	0·93843	9·79162	150·117	2840	...	..	..	..	..	..	..	..	..	..	1809
16·38	0·265	+ 0·01	9·95221	0·13673	0·93559	9·79438	127·437	2844	42418 (B.A.)	270	..	930	..	986	..	..	363	..	1810
−16·40	−0·271	+ 0·28	9·97804	0·15710	0·93477	9·79517	124·412	2847	42425 (B.A.)	276	..	..	499	987	652	542	364	..	1811
16·40	0·290	0·00	0·05354	0·21164	0·93428	9·79567	115·089	2842	...	275	..	..	..	988	..	543	..	..	1812
16·42	0·067	− 0·08	9·71147	9·63084	0·93344	9·79650	160·508	2856	3905 (F.)	292	3566	..	..	989	..	..	..	..	1813
16·50	0·057	+ 0·05	9·71908	9·62239	0·92963	9·80021	160·441	2861	3913 (F.)	302	3572	..	..	992	..	..	..	..	1814
16·50	0·136	+ 0·03	9·69152	9·68497	0·92945	9·80037	159·621	2857	3909 (F.)	297	3569	..	501	991	..	..	..	..	1815
−16·51	−0·176	+ 0·02	9·68762	9·76485	0·92894	9·80087	157·279	2855	{ 3907 (F.) 42535 (B.A.) }	295	3567	..	..	990	..	..	..	..	1816
16·61	0·209	+ 0·01	9·73743	9·89871	0·92376	9·80586	150·487	2859	42589 (B.A.)	305	..	..	..	993	..	..	..	..	1817
16·62	0·173	..	9·69285	9·75906	0·92315	9·80648	157·255	..	{ 3917 (F.) 42610 (B.A.) }	..	3577	..	..	..	..	..	..	..	1818
16·64	0·081	..	9·72008	9·62654	0·92221	9·80738	160·221	..	...	..	..	..	..	..	..	..	..	..	1819
16·65	0·081	− 0·01	9·72107	9·62553	0·92150	9·80807	160·206	..	3925 (F.)	..	3590	..	..	994	..	..	..	..	1820
−16·67	−0·081	..	9·72206	9·62483	0·92046	9·80906	160·181	..	...	..	..	..	..	..	..	..	..	..	1821
16·71	0·256	− 0·02	9·96156	0·14755	0·91869	9·81077	125·881	2860	42639 (B.A.)	315	..	..	502	995	653	545	..	..	1822
16·75	0·119	..	9·71575	9·64342	0·91629	9·81309	159·855	..	...	..	..	..	..	..	..	..	..	..	1823
16·76	0·211	+ 0·01	9·75823	9·92601	0·91604	9·81333	148·431	2864	42679 (B.A.)	321	..	..	..	..	..	..	..	..	1824
16·77	0·244	+ 0·29	9·91110	0·10445	0·91562	9·81373	131·668	..	42672 (B.A.)	320	..	1092	..	..	..	..	..	..	1825
−16·77	−0·111	..	9·71592	9·64435	0·91562	9·81373	159·817	..	...	..	..	..	..	..	..	..	..	..	1826
16·92	0·150	+ 0·05	9·70961	9·69971	0·90722	9·82175	158·393	2872	...	347	..	..	..	..	..	..	..	2648	1827
17·00	0·261	..	0·03391	0·20803	0·90330	9·82548	116·276	..	42837 (B.A.)	348	..	..	..	..	..	..	..	..	1828
17·02	0·219	..	9·82543	0·01300	0·90226	9·82649	141·167	..	...	..	..	..	..	..	..	..	..	..	1829
17·03	0·200	..	9·75105	9·89551	0·90143	9·82729	149·893	..	42883 (B.A.)	..	..	..	..	..	..	..	..	..	1830
−17·04	−0·123	+ 0·02	9·72681	9·64657	0·90087	9·82781	159·225	..	...	360	3633	..	..	..	..	..	..	..	1831
17·04	0·259	− 0·03	0·03234	0·20777	0·90068	9·82801	116·357	2873	42864 (B.A.)	351	..	..	..	..	..	..	..	..	1832
17·11	0·242	..	9·96722	0·15720	0·89695	9·83155	124·485	..	42919 (B.A.)	..	..	..	..	..	..	..	..	..	1833
17·14	0·242	− 0·03	9·97493	0·16400	0·89569	9·83273	123·485	..	42935 (B.A.)	..	..	..	..	..	..	..	..	..	1834
17·14	0·242	− 0·03	9·97493	0·16400	0·89569	9·83273	123·485	2878	...	365	..	..	503	..	655	..	..	2654	1835
−17·14	−0·242	− 0·03	9·97493	0·16400	0·89569	9·83273	123·485	..	...	..	..	..	..	..	..	..	..	..	1836
17·19	0·230	+ 0·01	9·92122	0·11641	0·89282	9·83543	129·971	2882	...	374	..	1285	..	..	656	..	..	..	1837
17·20	0·226	− 0·02	9·89873	0·09425	0·89240	9·83582	132·644	2883	42981 (B.A.)	376	..	1288	..	996	..	547	366	..	1838
17·25	0·060	+ 0·19	9·76552	9·57956	0·88950	9·83858	159·392	2900	4000 (F.)	394	3665	..	504	997	..	..	..	..	1839
17·31	0·220	+ 0·02	9·88925	0·08460	0·88612	9·84177	133·652	2890	43052 (B.A.)	387	..	1345	505	998	657	550	367	2660	1840

The magnitudes of Stars taken from Argelander are marked with Asterisks. Other magnitudes are taken in the order of preference from the British Association Catalogue of 8377 Stars; from the Catalogue of Lalande published by the British Association; from Weisse's *Catalogus Stellarum ex Zonis Regiomontanis*; or, for the variable stars, from Mr. Pogson's lists in the "Radcliffe Observations, 1854 and 1856." The authorities for any remaining magnitudes are given in the Notes.

No.	Magnitude.	Star's Name.	Mean Right Ascension, 1860, Jan. 1, from Observations, 1854 to 1860.	Mean Year and Fraction of Year.	Number of Observations.	Annual Precession in R.A. for 1860, from Peters' Elements.	Secular Variation of Precession in R.A.	Annual Proper Motion in R.A. from Main or B.A.C.	Logarithms of e	f	g	h	Value of l	Mean North Polar Distance, 1860, Jan. 1, from Observations, 1854 to 1860.	Mean Year and Fraction of Year.	Number of Observations.
			h m s			s	s	s					s	° ′ ″		
1841	5*	22 Pegasi .... ν	21. 58. 37·06	1859·7	3	+ 3·020	−0·0018	+0·012	0·09958	0·06678	1·44747	0·08077	85·668	85. 37. 26·80	1859·7	3
1842	4*	33 Aquarii .... ι	21. 58. 52·29	1857·9	11	3·247	−0·0113	−0·001	0·10019	0·06643	1·45097	0·07375	85·858	104. 32. 49·57	1857·9	13
1843	5	18 Cephei	21. 59. 41·31	1856·2	5	1·788	+0·0049	−0·016	0·12210	0·05223	1·42794	0·11745	83·781	27. 33. 38·27	1856·1	13
1844	5·4*	{17 Cephei .... ξ^1	21. 59. 43·38	1858·3	30	1·702	+0·0026	+0·037	0·12430	0·05074	1·42654	0·11992	83·626	26. 3. 11·31	1858·4	30
1845		{17 Cephei .... ξ^2	21. 59. 44·35	1858·2	28	1·702	+0·0026	+0·037	0·12430	0·05074	1·42654	0·11992	83·626	26. 3. 12·78	1858·3	27
1846	6	Piazzi XXI. 405	22. 0. 22·20	1860·8	2	+ 2·421	+0·0111	−0·021	0·10748	0·06203	1·43808	0·09915	84·825	45. 39. 56·44	1860·8	2
1847	4*	24 Pegasi .... ι	22. 0. 29·71	1858·5	22	2·766	+0·0059	+0·021	0·10162	0·06575	1·44352	0·08869	85·339	65. 20. 14·51	1857·6	32
1848	5	27 Pegasi .... π^1	22. 3. 1·56	1859·7	5	2·656	+ ·086	−0·003	0·10345	0·06498	1·44179	0·09238	85·128	57. 30. 37·81	1859·7	4
1849	8	Groombridge 3693 ...	22. 3. 1·93	1854·8	3	2·108	+0·0111	..	0·11519	0·05764	1·43309	0·10921	84·182	34. 6. 23·28	1854·8	3
1850	6	37 Aquarii .... e^1	22. 3. 3·58	1856·8	7	3·205	−0·0095	+0·003	0·10015	0·06698	1·45033	0·07488	85·797	101. 30. 28·03	1856·8	7
1851	5·6*	38 Aquarii .... e^2	22. 3. 8·25	1855·8	5	+ 3·214	−0·0099	+0·008	0·10021	0·06696	1·45046	0·07458	85·804	102. 15. 7·91	1855·8	5
1852	..	......	22. 3. 49·45	1854·9	1	2·109	+0·0113	..	0·11537	0·05770	1·43311	0·10940	84·149	33. 58. 51·19	1854·8	1
1853	7	Piazzi XXII. 8	22. 3. 57·83	1856·0	3	2·478	+0·0113	+0·002	0·10690	0·06301	1·43898	0·09810	84·811	47. 30. 0·26	1855·8	2
1854	5	Groombridge 3703 ...	22. 5. 43·82	1859·8	5	2·306	+0·0125	..	0·11104	0·06079	1·43626	0·10384	84·441	39. 52. 2·35	1859·8	4
1855	4·3*	21 Cephei .... ζ	22. 6. 0·09	1855·9	8	2·070	+0·0112	+0·003	0·11697	0·05720	1·43249	0·11127	83·969	32. 29. 16·97	1855·9	8
1856	5*	16 Piscis Australis ... λ	22. 6. 22·18	1860·7	4	+ 3·417	−0·0211	+0·007	0·10268	0·06592	1·45358	0·06752	85·929	118. 27. 33·42	1860·7	4
1857	6	Bradley 2926	22. 6. 46·01	1859·6	5	2·127	+0·0120	+0·023	0·11574	0·05815	1·43340	0·10975	84·043	33. 51. 20·71	1859·6	5
1858	5·4*	24 Cephei	22. 7. 6·57	1856·8	2	1·165	−0·0218	+0·003	0·14194	0·04133	1·41773	0·13898	82·012	18. 20. 52·59	1859·8	8
1859	5*	Piazzi XXII. 36	22. 7. 52·39	1859·7	4	2·563	+0·0110	+0·013	0·10576	0·06434	1·44032	0·09611	84·848	50. 58. 42·69	1859·8	6
1860	4·5*	43 Aquarii .... θ	22. 9. 26·59	1857·8	49	3·165	−0·0077	+0·006	0·10027	0·06772	1·44970	0·07598	85·711	98. 28. 44·53	1857·7	32
1861	5·4*	1 Lacertæ	22. 9. 52·21	1859·8	3	+ 2·605	+0·0107	+0·002	0·10519	0·06498	1·44099	0·09504	84·871	52. 56. 50·76	1859·8	3
1862	5·4*	23 Cephei .... ε	22. 9. 53·13	1858·4	25	2·144	+0·0127	+0·055	0·11617	0·05858	1·43367	0·11019	83·931	33. 39. 13·15	1858·5	25
1863	6	45 Aquarii	22. 11. 29·71	1856·6	10	3·224	−0·0107	+0·009	0·10077	0·06769	1·45062	0·07380	85·754	104. 0. 15·12	1856·6	10
1864	7·8	Groombridge 3734 ...	22. 12. 17·85	1859·7	2	2·372	+0·0137	..	0·11087	0·06215	1·43731	0·10336	84·318	40. 52. 8·34	1859·7	2
1865	5·6*	46 Aquarii .... ρ	22. 12. 49·79	1860·7	5	3·162	−0·0076	−0·002	0·10043	0·06804	1·44967	0·07594	85·684	98. 31. 21·89	1860·7	6
1866	5·6*	30 Pegasi	22. 13. 24·85	1859·7	3	+ 3·019	−0·0010	+0·007	0·10031	0·06818	1·44745	0·08110	85·498	84. 54. 46·93	1859·7	3
1867	6·5*	47 Aquarii	22. 13. 52·75	1859·7	3	3·317	−0·0161	+0·002	0·10191	0·06737	1·45205	0·07023	85·824	112. 17. 53·76	1859·7	3
1868	4·3*	48 Aquarii .... γ	22. 14. 25·44	1856·5	37	3·094	−0·0043	+0·007	0·10029	0·06832	1·44861	0·07839	85·590	92. 5. 28·69	1856·0	25
1869	8·9	Groombridge 3743 ...	22. 14. 30·41	1859·8	3	2·385	+0·0141	..	0·11104	0·06247	1·43751	0·10350	84·259	40. 50. 11·26	1859·8	3
1870	4·5	31 Pegasi	22. 14. 37·57	1859·8	3	2·951	+0·0018	+0·005	0·10071	0·06812	1·44640	0·08356	85·384	78. 29. 56·02	1859·8	3
1871	5·4*	2 Lacertæ	22. 15. 14·83	1859·9	3	+ 2·465	+0·0137	+0·001	0·10920	0·06362	1·43877	0·10092	84·412	44. 10. 3·88	1859·9	3
1872	6	Groombridge 3751 ...	22. 16. 3·78	1855·9	1	2·525	+0·0132	..	0·10788	0·06448	1·43973	0·09898	84·521	46. 57. 32·94	1855·9	1
1873	6	50 Aquarii	22. 16. 56·91	1856·4	5	3·220	−0·0107	+0·004	0·10104	0·06822	1·45055	0·07363	85·717	104. 14. 15·37	1856·4	5
1874	4·5*	3 Lacertæ .... β	22. 18. 3·58	1860·4	7	2·348	+0·0151	+0·001	0·11285	0·06216	1·43693	0·10576	84·024	38. 28. 17·29	1860·4	7
1875	5·4*	52 Aquarii .... π	22. 18. 7·54	1859·7	4	3·065	−0·0028	0·000	0·10044	0·06868	1·44817	0·07944	85·516	89. 19. 55·68	1859·7	4
1876	5*	4 Lacertæ	22. 18. 50·76	1859·8	4	+ 2·420	+0·0149	−0·002	0·11107	0·06326	1·43807	0·10338	84·171	41. 13. 57·66	1859·8	4
1877	6·5*	35 Pegasi	22. 20. 46·25	1860·7	5	3·033	−0·0012	+0·009	0·10060	0·06891	1·44767	0·08071	85·438	86. 0. 18·11	1860·7	5
1878	..	{55 Aquarii (as one mass) ζ	22. 21. 37·22	1860·2	3	3·079	−0·0034	+0·009	0·10059	0·06902	1·44838	0·07891	85·502	90. 44. 4·56	1860·2	3
1879	3·4*	{ Aquarii .... ζ^1	22. 21. 37·25	1859·8	5	3·079	−0·0034	+0·009	0·10059	0·06902	1·44838	0·07891	85·502	90. 44. 4·07	1859·8	5
1880		{ Aquarii .... ζ^2	22. 21. 37·36	1859·8	4	3·079	−0·0034	..	0·10059	0·06902	1·44838	0·07891	85·502	90. 44. 8·65	1859·8	4

1856. This star is identical with Lacaille 9065.

Annual Precession in N.P.D. for 1860, from Peters' Elements.	Secular Variation of Precession in N.P.D.	Annual Proper Motion in N.P.D. from Main or B.A.C.	Logarithms of e′	f′	g′	h′	Value of l′	No. in Bessel's Bradley. 1755.	No. in Lalande Fedorenko (F.) 1790, or British Association (B.A.) 1800.	Hour and No. in Piazzi. 1800.	No. in Groombridge. 1810.	Hour and No. in Weisse's Bessel. 1825.	No. in Argelander. 1830.	No. in Pond's 1112. 1830.	No. in First Cambridge Catalogue. 1830.	No. in Johnson's (St. Helena). 1830.	No. in Fallows. 1830.	No. in Struve. 1830.	No
″	″	″					″			XXI.		XXI.							
−17·31	−0·215	− 0·09	9·86255	0·05463	0·88603	9·84185	136·831	2891	43065 (B.A.)	388	..	..	..	999	..	..	..	..	1841
17·32	0·231	+ 0·07	9·95746	0·15136	0·88540	9·84244	125·298	2889	43069 (B.A.)	389	..	1353	..	1000	658	551	368	..	1842
17·35	0·123	..	9·74414	9·63641	0·88341	9·84432	158·663	2906	...	..	3676	..	..	..	..	..	..	..	1843
17·36	0·117	− 0·08	9·74757	9·62582	0·88330	9·84443	158·813	2907	...	408	3678	..	..	1001	..	..	..	..	1844
17·36	0·117	− 0·08	9·74764	9·62578	0·88325	9·84446	158·811	..	...	..	..	..	..	..	..	..	..	2667	1845
−17·39	−0·169	+ 0·10	9·73336	9·77396	0·88168	9·84596	154·941	..	43152 (B.A.)	405	3679	..	..	..	..	..	..	..	1846
17·39	0·194	− 0·02	9·77656	9·92330	0·88134	9·84628	147·423	2899	43137 (B.A.)	402	..	..	506	1002	..	..	..	..	1847
17·50	0·182	+ 0·05	9·75709	9·86415	0·87506	9·85218	150·637	2915	43245 (B.A.)	XXII. 3	..	..	..	1005	..	..	..	..	1848
17·50	0·143	..	9·74210	9·67894	0·87506	9·85218	157·470	..	...	..	3693	..	..	..	..	..	..	..	1849
17·50	0·221	− 0·05	9·94062	0·13798	0·87503	9·85222	127·058	2908	...	XXI. 418	..	XXII. 34	..	..	661	..	371	..	1850
−17·50	−0·221	− 0·04	9·94424	0·14151	0·87482	9·85242	126·589	2909	43222 (B.A.)	420	..	37	..	..	..	..	372	..	1851
17·53	0·142	..	9·74421	9·67678	0·87314	9·85399	157·428	..	...	..	..	..	..	..	..	..	..	..	1852
17·54	0·168	+ 0·01	9·74233	9·78475	0·87276	9·85434	154·129	..	43280 (B.A.)	XXII. 8	3694	..	..	..	..	..	..	..	1853
17·61	0·153	..	9·74406	9·72093	0·86845	9·85839	156·076	..	43349 (B.A.)	..	3703	..	..	..	..	..	..	..	1854
17·63	0·137	+ 0·02	9·75166	9·66150	0·86773	9·85904	157·500	2925	4045 (F.)	26	3706	..	..	1007	..	..	..	2680	1855
−17·64	−0·230	− 0·82	0·01924	0·20930	0·86685	9·85988	116·450	2922	43334 (B.A.)	21	..	..	..	..	..	..	..	..	1856
17·66	0·140	− 0·16	9·75166	9·67101	0·86586	9·86080	157·211	2926	...	..	3712	..	..	..	..	..	..	..	1857
17·67	0·073	+ 0·03	9·78852	9·56075	0·86505	9·86157	158·573	2932	4073 (F.)	40	3718	..	..	1008	..	..	..	..	1858
17·70	0·168	+ 0·16	9·75358	9·80910	0·86316	9·86334	152·709	..	43408 (B.A.)	36	3716	..	511	1009	..	..	..	..	1859
17·77	0·206	+ 0·03	9·92387	0·12407	0·85930	9·86695	128·671	2929	43453 (B.A.)	44	..	178	..	1011	668	556	376	..	1860
−17·78	−0·168	− 0·02	9·75982	9·82330	0·85829	9·86790	151·875	2933	43493 (B.A.)	49	..	..	..	1012	..	..	..	..	1861
17·79	0·137	− 0·02	9·75952	9·66448	0·85824	9·86794	156·981	2937	...	54	3728	..	..	1013	670	..	..	..	1862
17·85	0·207	− 0·05	9·94905	0·15086	0·85430	9·87161	125·202	2936	43530 (B.A.)	56	..	217	..	..	671	..	..	..	1863
17·88	0·149	..	9·75868	9·72077	0·85237	9·87342	155·293	..	...	..	3734	..	..	..	..	..	..	..	1864
17·90	0·200	0·00	9·92309	0·12457	0·85109	9·87463	128·504	2939	43564 (B.A.)	63	..	..	..	1014	..	..	..	..	1865
−17·93	−0·190	+ 0·03	9·86219	0·04953	0·84967	9·87595	136·500	2941	43581 (B.A.)	66	..	260	..	1015	..	..	..	..	1866
17·94	0·208	+ 0·03	9·98588	0·18738	0·84856	9·87700	120·011	2940	43588 (B.A.)	67	..	..	..	1016	..	557	..	..	1867
17·97	0·193	− 0·02	9·89354	0·09081	0·84725	9·87820	132·293	2943	43616 (B.A.)	72	..	280	512	1017	..	558	378	..	1868
17·97	0·147	..	9·76358	9·71780	0·84707	9·87839	155·109	..	...	..	3743	..	..	..	..	..	..	..	1869
17·97	0·183	− 0·04	9·83651	0·00916	0·84674	9·87868	139·970	2944	43629 (B.A.)	74	..	287	..	1018	..	..	..	..	1870
−18·00	−0·151	− 0·01	9·76425	9·74531	0·84526	9·88007	154·194	2948	43664 (B.A.)	79	3747	..	..	1019	..	..	..	..	1871
18·03	0·154	..	9·76626	9·76832	0·84332	9·88189	153·328	..	43696 (B.A.)	..	3751	..	..	..	..	..	..	..	1872
18·06	0·196	− 0·04	9·94758	0·15273	0·84119	9·88386	124·847	2949	43701 (B.A.)	86	..	340	..	..	672	..	..	..	1873
18·11	0·140	+ 0·21	9·77320	9·69302	0·83856	9·88635	155·322	2956	{4121 (F.) 43781 (B.A.)}	95	3761	..	514	1021	..	..	..	2710	1874
18·11	0·185	+ 0·01	9·88144	0·07537	0·83839	9·88650	133·713	2952	43752 (B.A.)	90	..	377	..	1020	..	..	..	..	1875
−18·13	−0·143	+ 0·02	9·77283	9·71605	0·83673	9·88805	154·622	2958	{4128 (F.) 43808 (B.A.)}	99	3764	..	..	1022	..	..	..	..	1876
18·21	0·178	+ 0·29	9·86794	0·05564	0·83219	9·89233	135·473	2959	43851 (B.A.)	107	..	439	..	..	..	..	..	..	1877
18·24	0·179	− 0·03	9·88728	0·08337	0·83020	9·89420	132·712	2960	43878 (B.A.)	111	..	450	..	..	..	562	381	..	1878
18·24	0·179	− 0·03	9·88728	0·08337	0·83020	9·89420	132·712	..	...	..	..	..	..	1023	..	..	..	..	1879
18·24	0·179	..	9·88728	0·08337	0·83020	9·89420	132·712	..	...	..	..	..	..	1024	..	..	..	2717	1880

The magnitudes of Stars taken from Argelander are marked with Asterisks. Other magnitudes are taken in the order of preference from the British Association Catalogue of 8377 Stars; from the Catalogue of Lalande published by the British Association; from Weisse's *Catalogus Stellarum ex Zonis Regiomontanis*; or, for the variable stars, from Mr. Pogson's lists in the "Radcliffe Observations, 1854 and 1856." The authorities for any remaining magnitudes are given in the Notes.

No.	Magnitude.	Star's Name.	Mean Right Ascension, 1860, Jan. 1, from Observations, 1854 to 1860.	Mean Year and Fraction of Year.	Number of Observations.	Annual Precession in R.A. for 1860, from Peters' Elements.	Secular Variation of Precession in R.A.	Annual Proper Motion in R.A. from Main or B.A.C.	Logarithms of a	b	c	d	Value of l	Mean North Polar Distance, 1860, Jan. 1, from Observations, 1854 to 1860.	Mean Year and Fraction of Year.	Number of Observations.
			h m s			s	s	s					s	° ′ ″		
1881	6·5*	26 Cephei	22. 22. 35·28	1857·4	12	+1·920	+0·0117	−0·003	0·12731	0·05551	1·43008	0·12284	82·598	25. 34. 51·58	1857·9	36
1882	5·4*	57 Aquarii σ	22. 23. 14·11	1858·2	14	3·182	−0·0089	−0·004	0·10107	0·06898	1·44998	0·07472	85·633	101. 23. 35·03	1858·0	13
1883	4*	17 Piscis Australis β	22. 23. 32·12	1857·9	19	3·428	−0·0250	+0·002	0·10470	0·06725	1·45374	0·06461	85·874	123. 3. 45·61	1857·7	21
1884	5*	5 Lacertæ	22. 23. 42·08	1859·8	3	+2·488	+0·0154	+0·018	0·11033	0·06452	1·43914	0·10218	84·148	43. 0. 32·37	1859·8	3
1885	5·6	Bradley 2993	22. 23. 53·77	1860·3	1	−3·696	−1·1552	..	0·29215	9·93524	1·32847	0·29160	64·984	4. 35. 55·12	1860·3	1
1886	Var.*	27 Cephei δ	22. 23. 58·79	1860·9	3	+2·212	+0·0164	+0·002	0·11858	0·06041	1·43476	0·11272	83·357	32. 18. 2·35	1860·9	4
1887	6	58 Aquarii	22. 24. 15·82	1855·8	4	3·184	−0·0090	+0·006	0·10113	0·06908	1·44999	0·07462	85·628	101. 37. 17·16	1855·8	4
1888	5*	6 Lacertæ	22. 24. 27·01	1856·3	2	2·578	+0·0142	−0·004	0·10807	0·06574	1·44055	0·09888	84·366	47. 36. ...	..	..
1889	6·5*	28 Cephei	22. 25. 36·46	1860·7	1	0·538	−0·0859	−0·009	0·17478	0·02975	1·40719	0·17295	77·964	11. 55. 41·40	1860·7	1
1890	6	Groombridge 3804	22. 26. (15.)	..	..	2·640	+0·0133	..	0·10679	0·06664	1·44154	0·09678	84·476	50. 56. 21·56	1860·7	2
1891	6·5*	59 Aquarii υ	22. 27. 1·78	1859·7	3	+3·279	−0·0151	+0·017	0·10236	0·06884	1·45146	0·07039	85·728	111. 25. 26·60	1859·7	3
1892	4·3*	62 Aquarii η	22. 28. 9·65	1857·5	54	3·080	−0·0032	+0·003	0·10085	0·06967	1·44839	0·07886	85·442	90. 50. 16·54	1857·5	40
1893	6·5*	29 Cephei ρ	22. 28. (36.)	..	..	0·607	−0·0806	−0·002	0·17549	0·03119	1·40836	0·17367	77·671	11. 53. 38·44	1860·6	2
1894	5*	63 Aquarii κ	22. 30. 30·23	1860·1	6	3·116	−0·0052	−0·007	0·10102	0·06986	1·44896	0·07725	85·483	94. 56. 56·56	1860·1	6
1895	6·7	Lalande 44254	22. 31. 56·16	1860·8	3	3·350	−0·0209	−0·001	0·10404	0·06871	1·45256	0·06658	85·786	119. 3. 10·28	1860·8	3
1896	5*	31 Cephei	22. 32. 18·51	1859·7	2	+1·447	−0·0071	+0·043	0·14938	0·04737	1·42238	0·14651	80·088	17. 4. 59·24	1860·1	5
1897	6·7	Groombridge 3843	22. 32. 39·07	1858·1	3	2·599	+0·0159	..	0·10905	0·06661	1·44089	0·09998	84·130	46. 24. 57·01	1858·1	3
1898	5·6*	30 Cephei	22. 33. 41·45	1859·8	3	2·113	+0·0182	0·000	0·12576	0·05929	1·43318	0·12088	82·388	27. 8. 34·44	1859·8	5
1899	5*	11 Lacertæ	22. 34. 22·92	1857·7	25	2·608	+0·0161	+0·010	0·10912	0·06686	1·44104	0·10002	84·093	46. 27. 13·21	1858·1	26
1900	3·4*	42 Pegasi ζ	22. 34. 28·81	1856·6	49	2·985	+0·0022	+0·001	0·10143	0·07015	1·44693	0·08317	85·181	79. 53. 54·76	1856·4	31
1901	6	19 Piscis Australis	22. 34. 34·36	1859·2	13	+3·354	−0·0217	+0·003	0·10440	0·06891	1·45262	0·06596	85·782	120. 5. 28·93	1859·1	12
1902	5*	43 Pegasi ο	22. 35. 11·26	1859·7	3	2·809	+0·0102	+0·001	0·10407	0·06913	1·44418	0·09126	84·701	61. 25. 20·51	1859·8	5
1903	6*	67 Aquarii	22. 35. 55·44	1856·2	6	3·137	−0·0064	0·000	0·10134	0·07036	1·44927	0·07613	85·479	97. 41. 39·71	1856·2	6
1904	8	Lalande 44463	22. 36. 44·25	1857·7	4	2·986	+0·0024	..	0·10152	0·07038	1·44695	0·08322	85·155	79. 47. 14·07	1857·7	3
1905	5·4*	46 Pegasi ξ	22. 39. 41·97	1860·3	7	2·979	+0·0031	+0·015	0·10171	0·07064	1·44683	0·08375	85·095	78. 32. 38·77	1860·4	8
1906	4*	47 Pegasi λ	22. 39. 47·45	1859·7	3	+2·879	+0·0081	+0·006	0·10310	0·07011	1·44528	0·08862	84·807	67. 10. 12·71	1859·8	5
1907	6	70 Aquarii	22. 41. 8·03	1857·2	11	3·162	−0·0082	+0·006	0·10175	0·07080	1·44967	0·07462	85·491	101. 17. 37·40	1857·2	11
1908	4*	71 Aquarii τ²	22. 42. 10·54	1856·9	1	3·186	−0·0100	−0·004	0·10205	0·07081	1·45003	0·07333	85·529	104. 19. 47·00	1856·9	1
1909	4*	48 Pegasi μ	22. 43. 14·94	1857·0	32	2·878	+0·0088	+0·009	0·10341	0·07042	1·44526	0·08915	84·728	66. 8. 12·76	1857·0	49
1910	5	Groombridge 3900	22. 44. 0·14	1859·8	3	2·447	+0·0222	..	0·11739	0·06520	1·43849	0·11077	82·992	34. 50. 20·71	1859·8	3
1911	4·3*	32 Cephei ι	22. 44. (42.)	..	..	+2·127	+0·0222	−0·012	0·13097	0·06001	1·43340	0·12653	81·488	24. 32. 8·08	1860·8	2
1912	5·4*	22 Piscis Australis γ	22. 44. 43·85	1860·2	3	3·359	−0·0245	−0·004	0·10577	0·06974	1·45269	0·06372	85·769	123. 37. 5·30	1860·2	3
1913	4*	73 Aquarii λ	22. 45. 18·48	1857·8	35	3·135	−0·0064	−0·006	0·10169	0·07130	1·44924	0·07583	85·414	98. 19. 25·17	1858·1	24
1914	6*	15 Lacertæ	22. 45. 43·56	1855·3	1	2·681	+0·0175	+0·015	0·10918	0·06862	1·44218	0·09969	83·908	47. 25. 51·37	1855·8	2
1915	5	Bradley 3028	22. 45. 55·24	1860·8	3	2·307	+0·0239	..	0·12392	0·06311	1·43628	0·11854	82·220	29. 2. 49·26	1860·2	7
1916	6*	74 Aquarii	22. 46. 6·28	1856·1	5	+3·165	−0·0086	+0·004	0·10200	0·07128	1·44971	0·07414	85·471	102. 21. 36·72	1856·1	5
1917	3*	76 Aquarii δ	22. 47. 12·97	1855·7	8	3·196	−0·0111	−0·007	0·10246	0·07124	1·45019	0·07231	85·528	106. 33. 51·20	1855·7	8
1918	6	1 Piscium	22. 47. 49·63	1859·7	4	3·070	−0·0018	+0·007	0·10154	0·07164	1·44824	0·07932	85·237	89. 40. 49·80	1859·7	5
1919	8	Groombridge 3921	22. 48. 55·51	1859·8	3	2·607	+0·0209	..	0·11269	0·06788	1·44102	0·10460	83·429	41. 16. 17·34	1859·8	3
1920	1·2*	24 Piscis Australis α	22. 49. 54·38	1857·0	59	3·308	−0·0212	+0·022	0·10506	0·07067	1·45191	0·06549	85·701	120. 21. 48·31	1856·9	58

1883, 1895, 1912 and 1920. These stars are respectively identical with Lacaille 9162, 9204, 9287 and 9314.
1885 and 1893. These stars are respectively identical with Schwerd 1309 and 1311.
1886. The limits of magnitude are 4·3 and 5·4.
1919. The magnitude has been taken from Groombridge.

Annual Precession in N.P.D. for 1860, from Peters' Elements.	Secular Variation of Precession in N.P.D.	Annual Proper Motion in N.P.D. from Main or B.A.C.	Logarithms of a′	b′	c′	d′	Value of l′	No. in Bessel's Bradley. 1755.	No. in Lalande Fedorenko (F.) 1790, or British Association (B.A.) 1800.	Hour and No. in Piazzi. 1800.	No. in Groombridge. 1810.	Hour and No. in Weisse's Bessel. 1825.	No. in Argelander. 1830.	No. in Pond's 1112. 1830.	No. in First Cambridge Catalogue. 1830.	No. in Johnson's (St. Helena). 1830.	No. in Fallows. 1830.	No. in Struve. 1830.	No.
″	″	″					″			XXII.		XXII.							
−18·27	−0·108	+0·04	9·80665	9·57783	0·82792	9·89632	156·760	2969	4149 (F.)	128	3783	..	..	..	..	..	..	..	1881
18·30	0·182	−0·05	9·93227	0·13997	0·82643	9·89774	126·301	2966	43939 (B.A.)	122	..	480	518	1025	674	563	..	..	1882
18·31	0·196	+0·07	0·02498	0·22994	0·82572	9·89839	113·252	2964	...	123	..	..	..	1026	..	564	..	..	1883
18·31	−0·140	−0·01	9·78233	9·72623	0·82525	9·89883	153·715	2970	{4153 (F.) 43991 (B.A.)}	132	3787	..	..	..	..	..	..	..	1884
18·32	+0·227	..	9·88047	9·46174	0·82487	9·89920	155·936	2993	4202 (F.)	165	3820	..	..	..	..	..	..	..	1885
−18·32	−0·123	+0·02	9·79532	9·63127	0·82468	9·89939	155·855	2973	...	135	3791	..	519	1027	676	..	..	2721	1886
18·33	0·181	−0·01	9·93283	0·14115	0·82405	9·90000	126·120	2967	43983 (B.A.)	130	..	496	..	..	..	..	..	..	1887
18·34	0·144	0·00	9·78283	9·76601	0·82361	9·90040	152·380	2971	...	136	3792	..	..	..	..	..	..	..	1888
18·38	0·024	+0·02	9·85649	9·48211	0·82099	9·90290	156·511	2980	{4177 (F.) 44129 (B.A.)}	150	3809	..	..	1029	..	..	..	..	1889
18·40	0·145	..	9·78704	9·79362	0·81946	9·90431	151·172	..	...	..	3804	..	..	..	..	..	..	..	1890
−18·43	−0·181	+0·10	9·97317	0·18626	0·81767	9·90600	120·089	2976	44073 (B.A.)	143	..	..	520	1030	..	565	..	..	1891
18·47	0·168	+0·06	9·88750	0·08400	0·81510	9·90845	132·283	2979	44131 (B.A.)	151	..	582	..	1031	..	566	382	..	1892
18·48	0·026	+0·03	9·86362	9·47463	0·81411	9·90938	156·167	2988	{4203 (F.) 44227 (B.A.)}	168	3831	..	..	..	..	..	..	..	1893
18·55	0·165	+0·11	9·90336	0·10714	0·80983	9·91345	129·764	2983	44203 (B.A.)	166	..	633	..	1034	679	..	383	..	1894
18·59	0·175	−0·62	0·00117	0·21753	0·80663	9·91652	115·362	..	44254 (B.A.)	..	..	..	..	..	..	..	..	..	1895
−18·61	−0·071	−0·04	9·85461	9·49595	0·80587	9·91726	155·943	2994	4218 (F.)	185	3846	..	..	1037	..	..	..	..	1896
18·62	0·133	..	9·79886	9·74824	0·80505	9·91804	151·905	..	44318 (B.A.)	..	3843	..	..	..	..	..	..	..	1897
18·65	0·105	+0·03	9·82918	9·57116	0·80274	9·92027	155·391	2996	4227 (F.)	190	3850	..	..	1038	..	..	..	..	1898
18·67	0·130	−0·02	9·80216	9·74704	0·80121	9·92172	151·714	2995	44386 (B.A.)	192	3851	..	..	..	..	..	..	..	1899
18·68	0·151	0·00	9·85058	0·01565	0·80099	9·92193	137·884	2992	44376 (B.A.)	189	..	720	..	1039	..	..	..	..	1900
−18·68	−0·170	+0·09	0·00316	0·22195	0·80083	9·92210	114·660	2991	...	187	..	..	..	..	..	..	..	..	1901
18·70	0·140	+0·03	9·81023	9·87735	0·79949	9·92340	146·480	2999	44411 (B.A.)	196	..	..	..	1040	..	..	..	..	1902
18·72	0·156	−0·05	9·91281	0·12225	0·79789	9·92495	127·852	3001	44433 (B.A.)	202	..	..	..	..	681	..	385	..	1903
18·75	0·147	..	9·85120	0·01461	0·79613	9·92666	137·778	..	44463 (B.A.)	..	..	773	..	..	..	..	..	2747	1904
18·84	0·141	+0·43	9·84917	0·00585	0·78977	9·93286	138·182	3008	44552 (B.A.)	215	..	829	524	1042	..	..	..	..	1905
−18·84	−0·136	−0·02	9·82413	9·92194	0·78958	9·93303	143·619	3010	44562 (B.A.)	217	..	..	525	1043	683	..	..	..	1906
18·88	0·148	−0·04	9·92459	0·14128	0·78676	9·93582	125·464	3012	44609 (B.A.)	223	..	857	..	..	684	..	..	..	1907
18·91	0·147	+0·02	9·93556	0·15638	0·78459	9·93796	123·631	3013	44637 (B.A.)	225	..	883	..	1045	685	..	..	..	1908
18·94	0·130	+0·04	9·82620	9·91269	0·78235	9·94019	143·744	3016	44667 (B.A.)	231	..	..	..	1046	686	..	..	..	1909
18·96	0·108	..	9·83556	9·62727	0·78084	9·94169	153·178	..	4281 (F.)	..	3900	..	..	..	..	..	..	..	1910
−18·98	−0·092	+0·14	9·86112	9·53013	0·77940	9·94315	154·214	3022	4287 (F.)	238	3905	..	529	1048	..	..	..	2759	1911
18·98	0·150	+0·04	0·00741	0·23655	0·77933	9·94322	112·313	3017	...	234	..	..	..	1047	..	572	..	..	1912
19·00	0·138	−0·03	9·91217	0·12614	0·77816	9·94438	126·956	3019	44728 (B.A.)	235	..	931	..	1049	687	573	388	..	1913
19·01	0·116	−0·01	9·82282	9·74725	0·77734	9·94523	150·180	3023	44758 (B.A.)	240	3907	..	..	..	..	..	..	..	1914
19·02	0·099	−0·07	9·85224	9·56945	0·77689	9·94564	153·695	3028	4292 (F.)	..	3910	..	..	1050	689	..	..	2761	1915
−19·02	−0·138	−0·03	9·92634	0·14710	0·77654	9·94602	124·571	3021	44756 (B.A.)	239	..	956	..	..	688	..	..	..	1916
19·05	0·137	0·00	9·94106	0·16758	0·77431	9·94828	122·070	3025	44791 (B.A.)	245	..	..	..	1051	690	574	389	..	1917
19·07	0·131	0·00	9·88332	0·07728	0·77309	9·94953	131·647	3030	...	249	..	..	..	..	..	..	..	..	1918
19·10	0·108	..	9·83531	9·68502	0·77090	9·95176	151·332	..	...	..	3921	..	..	..	..	..	..	..	1919
19·13	0·137	+0·18	9·99025	0·22584	0·76901	9·95370	113·982	3032	44866 (B.A.)	253	..	..	..	1052	692	575	391	..	1920

The magnitudes of Stars taken from Argelander are marked with Asterisks. Other magnitudes are taken in the order of preference from the British Association Catalogue of 8377 Stars; from the Catalogue of Lalande published by the British Association; from Weisse's *Catalogus Stellarum ex Zonis Regiomontanis*; or, for the variable stars, from Mr. Pogson's lists in the "Radcliffe Observations, 1854 and 1856." The authorities for any remaining magnitudes are given in the Notes.

No.	Magnitude.	Star's Name.	Mean Right Ascension, 1860, Jan. 1, from Observations, 1854 to 1860.	Mean Year and Fraction of Year.	Number of Observations.	Annual Precession in R.A. for 1860, from Peters' Elements.	Secular Variation of Precession in R.A.	Annual Proper Motion in R.A. from Main or B.A.C.	Logarithms of e	f	g	h	Value of l	Mean North Polar Distance, 1860, Jan. 1, from Observations, 1854 to 1860.	Mean Year and Fraction of Year.	Number of Observations.
			h m s			s	s	s					s	° ′ ″		
1921	6·7	Groombridge 3930...	22. 50. 18·31	1859·9	3	+ 2·612	+0·0213	..	0·11291	0·06803	1·44109	0·10488	83·374	41. 0. 47·87	1859·9	3
1922	8·9	Groombridge 3938...	22. 52. 26·78	1859·8	3	2·624	+0·0218	..	0·11309	0·06834	1·44128	0·10505	83·315	40. 53. 45·03	1859·8	3
1923	6	81 Aquarii	22. 54. 7·01	1856·1	5	3·124	−0·0057	+ 0·002	0·10193	0·07222	1·44908	0·07600	85·334	97. 48. 44·68	1856·1	5
1924	..	......	22. 54. 50·95	1854·7	1	3·156	−0·0084	..	0·10229	0·07219	1·44957	0·07396	85·411	102. 37. 29·33	1854·7	1
1925	6	82 Aquarii	22. 55. 16·37	1856·4	5	3·120	−0·0054	+ 0·001	0·10194	0·07235	1·44901	0·07620	85·316	97. 19. 29·13	1856·4	5
1926	4·3*	1 Andromedæ....... o	22. 55. 29·24	1855·9	4	+ 2·743	+0·0186	+ 0·002	0·10912	0·07012	1·44315	0·09927	83·767	48. 25. 31·99	1855·8	1
1927	5·4*	4 Piscium.......... β	22. 56. 45·15	1860·3	8	3·053	0·0000	+ 0·001	0·10183	0·07254	1·44797	0·08042	85·100	86. 55. 58·86	1860·3	8
1928	2·3*	53 Pegasi .... β	22. 56. (59.)	..	..	2·884	+0·0116	+ 0·014	0·10456	0·07175	1·44536	0·09101	84·415	62. 40. 33·69	1860·8	4
1929	2*	54 Pegasi .... α	22. 57. 47·33	1856·4	54	2·980	+0·0056	+ 0·003	0·10255	0·07245	1·44684	0·08514	84·814	75. 32. 50·49	1856·6	42
1930	6·5*	83 Aquarii .... h^1	22. 57. 51·65	1857·2	7	3·125	−0·0059	+ 0·013	0·10207	0·07259	1·44910	0·07571	85·317	98. 26. 55·26	1857·2	8
1931	5	Bradley 3054	22. 58. 13·58	1860·8	3	+ 2·255	+0·0299	..	0·13381	0·06280	1·43545	0·12952	80·696	23. 32. 41·88	1858·6	16
1932	5*	55 Pegasi	22. 59. 57·18	1859·7	3	3·019	+0·0029	+ 0·003	0·10214	0·07282	1·44746	0·08271	84·939	81. 20. 46·73	1859·7	3
1933	5*	56 Pegasi	23. 0. 17·82	1859·8	3	2·914	+0·0107	+ 0·005	0·10411	0·07228	1·44581	0·08978	84·464	65. 17. 12·73	1859·8	3
1934	..	......	23. 0. 32·87	1854·6	1	3·146	−0·0078	..	0·10240	0·07281	1·44941	0·07416	85·359	102. 5. 50·99	1854·6	1
1935	6*	5 Piscium .... A	23. 1. 30·66	1858·2	6	3·064	−0·0006	+ 0·011	0·10193	0·07305	1·44815	0·07974	85·092	88. 38. 0·90	1858·2	6
1936	4*	88 Aquarii.......... c^2	23. 1. 58·65	1859·8	3	+ 3·207	−0·0140	+ 0·005	0·10366	0·07261	1·45035	0·06968	85·513	111. 55. 53·51	1859·8	3
1937	..	......	23. 2. 12·61	1854·6	1	3·143	−0·0077	..	0·10243	0·07299	1·44936	0·07422	85·345	101. 55. 51·01	1854·6	1
1938	5*	89 Aquarii.......... c^3	23. 2. 25·96	1859·9	3	3·215	−0·0149	+ 0·004	0·10390	0·07260	1·45047	0·06904	85·529	113. 12. 56·91	1859·9	3
1939	8	Groombridge 3996...	23. 2. 57·13	1859·9	3	2·695	+0·0240	..	0·11337	0·07004	1·44239	0·10519	83·083	41. 6. 26·79	1859·9	3
1940	5·4*	33 Cephei .... π	23. 3. 27·46	1860·0	6	1·884	+0·0232	+ 0·002	0·15955	0·05636	1·42950	0·15691	77·296	15. 22. 9·16	1860·0	8
1941	5*	7 Andromedæ	23. 6. 8·83	1859·8	3	+ 2·718	+0·0245	+ 0·008	0·11331	0·07059	1·44277	0·10505	83·032	41. 21. 29·30	1859·8	3
1942	4·5*	90 Aquarii .... φ	23. 7. 4·23	1857·2	14	3·109	−0·0046	+ 0·001	0·10222	0·07358	1·44884	0·07637	85·214	96. 48. 11·30	1857·4	13
1943	6	B. F. 3183..........	23. 8. 21·44	1856·1	5	3·094	−0·0031	..	0·10215	0·07375	1·44862	0·07743	85·152	94. 15. 21·84	1856·1	5
1944	5·4*	91 Aquarii.......... ψ^1	23. 8. 33·22	1855·7	2	3·124	−0·0062	+ 0·023	0·10243	0·07370	1·44907	0·07508	85·260	99. 50. 59·61	1855·7	1
1945	5·6*	92 Aquarii.......... χ^1	23. 9. 35·41	1856·7	8	3·116	−0·0054	− 0·005	0·10236	0·07383	1·44895	0·07565	85·226	98. 29. 21·46	1856·7	8
1946	8·9	W. B. XXIII. 173 ...	23. 9. 46·91	1857·9	1	+ 3·129	−0·0068	..	0·10255	0·07381	1·44916	0·07452	85·276	101. 8. 1·48	1857·9	1
1947	4*	6 Piscium.......... γ	23. 9. 54·47	1858·1	60	3·059	+0·0004	+ 0·047	0·10214	0·07391	1·44808	0·08022	84·990	87. 28. 56·13	1858·3	44
1948	5·4*	93 Aquarii.......... ψ^2	23. 10. 37·55	1854·8	2	3·122	−0·0061	0·000	0·10248	0·07392	1·44905	0·07503	85·246	99. 56. 47·95	1854·8	2
1949	5·4*	Sculptoris .... γ	23. 11. 15·32	1859·8	3	3·257	−0·0224	+ 0·002	0·10651	0·07305	1·45113	0·06341	85·634	123. 17. 41·59	1859·8	3
1950	5·6*	8 Andromedæ	23. 11. 15·81	1859·8	3	2·756	+0·0253	+ 0·001	0·11323	0·07146	1·44336	0·10483	82·950	41. 44. 58·35	1859·8	3
1951	8	W.B. XXIII. 222....	23. 11. 30·16	1855·7	1	+ 3·103	−0·0041	..	0·10229	0·07405	1·44876	0·07653	85·171	96. 23. 36·35	1855·7	1
1952	5*	95 Aquarii .... ψ^3	23. 11. 40·55	1856·1	2	3·123	−0·0063	− 0·002	0·10253	0·07402	1·44906	0·07484	85·248	100. 22. 31·42	1856·1	2
1953	6·5*	96 Aquarii	23. 12. 8·32	1860·2	6	3·101	−0·0038	+ 0·011	0·10229	0·07412	1·44872	0·07674	85·155	95. 53. 19·07	1860·2	6
1954	..	......	23. 12. 45·60	1858·7	3	3·131	−0·0073	..	0·10270	0·07410	1·44919	0·07404	85·276	102. 12. 29·20	1858·7	3
1955	6·5*	34 Cephei .... o	23. 12. (53.)	..	..	2·418	+0·0398	+ 0·019	0·13655	0·06620	1·43804	0·13238	79·835	22. 39. 15·01	1860·8	5
1956	5·4*	62 Pegasi .... τ	23. 13. (43.)	..	..	+ 2·958	+0·0109	+ 0·001	0·10412	0·07390	1·44651	0·08909	84·348	67. 1. 31·98	1860·7	2
1957	5·4*	98 Aquarii.......... b^1	23. 15. 36·72	1859·8	4	3·170	−0·0125	− 0·007	0·10381	0·07418	1·44979	0·07005	85·413	110. 51. 52·68	1859·8	4
1958	6*	67 Pegasi ....ς	23. 18. (0.)	..	..	2·922	+0·0160	0·000	0·10618	0·07398	1·44595	0·09355	83·917	58. 23. 0·99	1854·9	1
1959	5·4*	68 Pegasi .... υ	23. 18. 23·71	1858·4	5	2·971	+0·0111	+ 0·013	0·10416	0·07444	1·44671	0·08897	84·301	67. 21. 58·87	1858·7	27
1960	6*	4 Cassiopeiæ..........	23. 18. 38·07	1859·8	3	2·630	+0·0384	+ 0·003	0·12630	0·07000	1·44138	0·12086	81·012	28. 29. 8·14	1859·8	15

Annual Precession in N.P.D. for 1860, from Peters' Elements.	Secular Variation of Precession in N.P.D.	Annual Proper Motion in N.P.D. from Main or B.A.C.	Logarithms of e′	f′	g′	h′	Value of l′	No. in Bessel's Bradley. 1755.	No. in Lalande Fedorenko (F.) 1790, or British Association (B.A.) 1800.	Hour and No. in Piazzi. 1800.	No. in Groombridge. 1810.	Hour and No. in Weisse's Bessel. 1825.	No. in Argelander. 1830.	No. in Pond's 1112. 1830.	No. in First Cambridge Catalogue. 1830.	No. in Johnson's (St. Helena). 1830.	No. in Fallows. 1830.	No. in Struve. 1830.	No.
″	″	″					″			XXII.		XXII.							
−19·14	−0·106	..	9·83841	9·68133	0·76823	9·95450	151·215	..	{ 4312 (F.) 44897 (B.A.) }	..	3930	..	..	..	..	..	..	..	1921
19·19	0·103	..	9·84280	9·67829	0·76412	9·95881	150·964	..	...	..	3938	..	..	..	..	..	..	..	1922
19·23	0·121	− 0·06	9·90779	0·12400	0·76097	9·96212	126·688	3040	45017 (B.A.)	278	..	1128	..	..	..	..	393	..	1923
19·25	0·121	..	9·92319	0·14921	0·75960	9·96357	123·916	..	...	..	..	..	..	..	..	..	..	..	1924
19·26	0·119	− 0·01	9·90585	0·12133	0·75883	9·96439	126·895	3042	45055 (B.A.)	281	..	1157	..	..	..	..	..	..	1925
−19·27	−0·103	+ 0·01	9·83948	9·75006	0·75843	9·96483	148·730	3043	45075 (B.A.)	284	3954	..	..	1053	..	..	..	..	1926
19·30	0·113	+ 0·02	9·87628	0·06014	0·75610	9·96731	132·453	3046	45105 (B.A.)	287	..	..	..	1054	..	..	..	..	1927
19·30	0·106	− 0·15	9·83879	9·87986	0·75570	9·96779	143·744	3047	45123 (B.A.)	288	..	..	534	1055	..	..	..	..	1928
19·32	0·108	+ 0·02	9·85303	9·98209	0·75427	9·96935	138·076	3050	45148 (B.A.)	290	..	1216	535	1057	697	..	..	2782	1929
19·32	0·114	− 0·06	9·90859	0·12762	0·75413	9·96947	126·089	3048	45140 (B.A.)	289	..	..	..	1056	696	..	395	..	1930
−19·33	−0·079	− 0·03	9·89348	9·50019	0·75342	9·97023	152·383	3054	4363 (F.)	..	3975	..	..	1060	698	..	..	..	1931
19·37	0·106	− 0·01	9·86451	0·02315	0·75040	9·97357	135·053	3056	45214 (B.A.)	303	..	1259	..	1061	..	..	..	..	1932
19·38	0·101	0·00	9·84392	9·90090	0·74981	9·97426	142·342	3057	45224 (B.A.)	304	..	..	..	1062	..	..	..	..	1933
19·39	0·109	..	9·91882	0·14693	0·74937	9·97474	123·872	..	...	..	..	..	..	..	..	..	..	..	1934
19·41	0·105	− 0·15	9·88093	0·07075	0·74767	9·97661	131·171	3059	45279 (B.A.)	310	..	1287	536	..	..	..	..	..	1935
−19·42	−0·109	− 0·08	9·94988	0·19358	0·74690	9·97751	118·246	3062	45296 (B.A.)	313	..	..	..	1063	..	579	..	..	1936
19·42	0·106	..	9·91751	0·14620	0·74653	9·97797	123·862	..	...	..	..	..	..	..	..	..	..	..	1937
19·43	0·108	− 0·05	9·95386	0·19916	0·74614	9·97839	117·500	3065	45310 (B.A.)	317	..	..	..	1064	..	581	398	..	1938
19·44	0·089	..	9·86273	9·67177	0·74523	9·97939	149·519	..	45339 (B.A.)	..	3996	..	..	..	..	..	..	..	1939
19·45	0·059	+ 0·04	9·92916	9·42314	0·74439	9·98038	151·582	3074	{ 4392 (F.) 45381 (B.A.) }	XXIII. 8	4002	..	..	1066	..	..	..	..	1940
−19·50	−0·084	− 0·09	9·86829	9·67223	0·74003	9·98548	149·013	3075	{ 4404 (F.) 45447 (B.A.) }	14	4011	..	..	1067	..	..	..	..	1941
19·52	0·095	+ 0·19	9·90102	0·11901	0·73853	9·98726	126·365	3076	45475 (B.A.)	19	..	XXIII. 116	..	1068	699	582	399	..	1942
19·55	0·092	..	9·89426	0·10457	0·73649	9·98969	127·642	..	45521 (B.A.)	..	..	140	..	..	..	..	..	..	1943
19·55	0·093	+ 0·02	9·90881	0·13569	0·73620	9·99007	124·594	3078	45526 (B.A.)	22	..	147	541	1069	700	..	..	2804	1944
19·57	0·091	+ 0·02	9·90472	0·12839	0·73458	9·99201	125·269	3081	45558 (B.A.)	30	..	168	..	1070	701	..	..	..	1945
−19·58	−0·091	..	9·91180	0·14254	0·73429	9·99239	123·809	..	...	..	..	173	..	..	..	..	..	..	1946
19·58	0·088	+ 0·01	9·87910	0·06339	0·73411	9·99261	131·062	3082	45565 (B.A.)	31	..	176	542	1071	..	..	..	..	1947
19·59	0·089	+ 0·02	9·90822	0·13635	0·73300	9·99399	124·396	3083	45592 (B.A.)	33	..	196	..	1072	..	584	401	..	1948
19·60	0·092	+ 0·07	9·97918	0·23972	0·73205	9·99518	111·554	..	...	36	..	..	..	1073	..	585	..	..	1949
19·60	0·076	+ 0·01	9·87720	9·67278	0·73205	9·99518	148·190	3089	{ 4427 (F.) 45626 (B.A.) }	39	4026	..	..	1074	..	..	..	..	1950
−19·61	−0·087	..	9·89883	0·11684	0·73173	9·99562	126·259	..	...	..	..	222	..	..	..	..	..	..	1951
19·61	0·087	− 0·01	9·90897	0·13869	0·73147	9·99592	124·089	3087	45628 (B.A.)	40	..	226	..	1075	702	586	..	..	1952
19·62	0·085	+ 0·01	9·89741	0·11404	0·73078	9·99679	126·481	3090	...	46	..	233	545	1076	703	..	402	..	1953
19·63	0·085	..	9·91339	0·14834	0·72986	9·99795	123·017	..	...	..	..	..	..	..	..	..	..	..	1954
19·63	0·064	− 0·02	9·92660	9·47211	0·72968	9·99820	150·136	3097	4436 (F.)	53	4038	..	..	..	..	..	..	2811	1955
−19·65	−0·078	+ 0·01	9·85866	9·91262	0·72851	9·99974	140·094	3096	45717 (B.A.)	56	..	..	..	1077	..	..	..	..	1956
19·68	0·081	+ 0·07	9·93606	0·19020	0·72590	0·00327	118·111	3105	45773 (B.A.)	63	..	..	546	1078	..	587	404	..	1957
19·72	0·069	0·00	9·86629	9·83540	0·72262	0·00764	142·731	3111	...	75	..	..	..	..	..	..	..	..	1958
19·73	0·070	− 0·03	9·86332	9·91460	0·72214	0·00838	139·397	3114	45851 (B.A.)	77	..	..	548	1079	..	..	..	..	1959
19·73	0·060	+ 0·01	9·92184	9·52544	0·72181	0·00881	148·898	3115	4467 (F.)	81	4059	..	..	1081	..	..	..	..	1960

1922. The magnitude has been taken from Groombridge.

1938 and 1949. These stars are respectively identical with Lacaille 9386 and 9435.

The magnitudes of Stars taken from Argelander are marked with Asterisks. Other magnitudes are taken in the order of preference from the British Association Catalogue of 8377 Stars ; from the Catalogue of Lalande published by the British Association; from Weisse's *Catalogus Stellarum ex Zonis Regiomontanis*; or, for the variable stars, from Mr. Pogson's lists in the "Radcliffe Observations, 1854 and 1856." The authorities for any remaining magnitudes are given in the Notes.

No.	Magnitude.	Star's Name.	Mean Right Ascension, 1860, Jan. 1, from Observations, 1854 to 1860.	Mean Year and Fraction of Year.	Number of Observations.	Annual Precession in R.A. for 1860, from Peters' Elements.	Secular Variation of Precession in R.A.	Annual Proper Motion in R.A. from Main or B.A.C.	Logarithms of e	Logarithms of f	Logarithms of g	Logarithms of h	Value of l	Mean North Polar Distance, 1860, Jan. 1, from Observations, 1854 to 1860.	Mean Year and Fraction of Year.	Number of Observations.
			h m s			s	s	s					s	° ′ ″		
1961	5*	99 Aquarii .... b^2	23. 18. 41·30	1859·8	4	+ 3·166	−0·0127	− 0·003	0·10395	0·07450	1·44973	0·06978	85·404	111. 24. 32·00	1859·8	4
1962	5·4*	8 Piscium .... κ	23. 19. 45·31	1857·4	56	3·070	−0·0001	+ 0·005	0·10231	0·07495	1·44824	0·07938	84·952	89. 30. 37·51	1857·4	36
1963	4·5*	10 Piscium .... θ	23. 20. 52·00	1859·8	5	3·050	+0·0026	− 0·011	0·10244	0·07505	1·44793	0·08151	84·813	84. 23. 22·45	1859·8	5
1964	6*	Bradley 3125	23. 21. 22·80	1859·9	3	2·469	+0·0481	..	0·14251	0·06742	1·43885	0·13882	78·713	20. 24. 36·42	1859·9	3
1965	5*	70 Pegasi .... q	23. 22. 4·56	1859·8	3	3·025	+0·0059	+ 0·005	0·10285	0·07510	1·44755	0·08421	84·622	78. 0. 41·45	1859·8	3
1966	6·5*	Piazzi XXIII. 96....	23. 22. 17·79	1860·8	4	+ 3·092	−0·0030	+ 0·003	0·10246	0·07520	1·44859	0·07696	85·064	95. 17. 42·06	1860·8	3
1967	7·8	Piazzi XXIII. 100...	23. 23. 25·44	1859·8	1	2·735	+0·0365	..	0·12171	0·07193	1·44303	0·11541	81·519	32. 13. 22·31	1859·8	1
1968	5*	Piazzi XXIII. 101...	23. 23. 34·95	1859·8	4	2·736	+0·0366	+ 0·015	0·12171	0·07196	1·44305	0·11542	81·514	32. 13. 21·94	1859·8	4
1969	7	Piazzi XXIII. 103...	23. 24. 17·54	1860·8	4	3·090	−0·0026	− 0·001	0·10247	0·07541	1·44855	0·07716	85·037	94. 51. 7·26	1860·8	4
1970	5·4*	101 Aquarii......... b^4	23. 25. 56·69	1859·7	4	+ 3·151	−0·0124	+ 0·001	0·10413	0·07532	1·44949	0·06959	85·366	111. 41. 16·95	1859·7	3
1971	5·6	Bradley 3147	23. 27. 49·93	1860·9	1	− 0·017	−0·4924	..	0·36024	0·01941	1·39765	0·35986	39·321	3. 27. 54·31	1860·8	2
1972	7·8	Lalande 46194	23. 28. 2·16	1857·7	2	+ 3·087	−0·0023	..	0·10252	0·07581	1·44851	0·07727	85·003	94. 37. 41·86	1857·7	2
1973	6*	16 Piscium	23. 29. 14·66	1857·3	2	3·068	+0·0009	− 0·006	0·10247	0·07594	1·44821	0·07973	84·851	88. 40. 27·79	1857·3	2
1974	..	......	23. 30. 1·83	1855·8	1	2·912	+0·0246	..	0·11049	0·07489	1·44579	0·10059	83·042	47. 27. 53·95	1855·8	1
1975	4*	16 Andromedæ....... λ	23. 30. 43·43	1859·8	3	2·897	+0·0272	+ 0·017	0·11216	0·07476	1·44556	0·10304	82·767	44. 18. 0·32	1859·8	3
1976	4*	17 Andromedæ....... ι	23. 31. 16·80	1858·6	18	+ 2·919	+0·0248	− 0·001	0·11049	0·07507	1·44590	0·10058	83·022	47. 30. 24·64	1859·0	24
1977	5·4*	102 Aquarii .... $ω^1$	23. 32. 31·21	1859·7	3	3·115	−0·0078	+ 0·005	0·10330	0·07618	1·44893	0·07272	85·200	104. 59. 44·92	1859·7	3
1978	4·5*	17 Piscium .... ι	23. 32. 44·99	1857·7	69	3·059	+0·0029	+ 0·025	0·10258	0·07630	1·44806	0·08121	84·727	85. 7. 56·21	1857·9	42
1979	4*	19 Andromedæ....... κ	23. 33. 31·34	1859·9	3	2·925	+0·0260	+ 0·004	0·11105	0·07532	1·44600	0·10140	82·897	46. 26. 28·15	1859·9	3
1980	3·4*	35 Cephei............ γ	23. 33. 37·90	1857·3	26	2·415	+0·0734	− 0·020	0·17351	0·06683	1·43799	0·17128	73·578	13. 8. 56·56	1856·8	49
1981	5	103 Aquarii......... A^1	23. 34. 18·58	1859·8	3	+ 3·123	−0·0100	0·000	0·10380	0·07632	1·44906	0·07094	85·264	108. 48. 2·26	1859·8	3
1982	4*	104 Aquarii......... A^2	23. 34. 29·58	1859·9	3	3·122	−0·0099	+ 0·004	0·10377	0·07634	1·44904	0·07104	85·259	108. 35. 34·32	1859·9	3
1983	9	Groombridge 4125...	23. 34. 37·41	1859·9	4	2·904	+0·0307	..	0·11410	0·07512	1·44566	0·10569	82·395	41. 15. 46·68	1859·9	4
1984	9	Oeltz. Arg. 25927 ...	23. 34. 47·81	1857·3	1	2·456	+0·0753	..	0·17200	0·06759	1·43864	0·16967	73·745	13. 24. 28·60	1857·3	1
1985	5*	18 Piscium.......... λ	23. 34. 54·20	1858·5	4	3·069	+0·0010	− 0·011	0·10253	0·07653	1·44823	0·07961	84·813	88. 59. 24·06	1858·5	4
1986	Var.	......	23. 36. 34·45	1860·9	1	+ 3·111	−0·0082	..	0·10347	0·07661	1·44888	0·07221	85·196	106. 3. 38·78	1860·9	1
1987	5*	106 Aquarii.......... i^1	23. 36. 56·16	1859·8	4	3·118	−0·0100	+ 0·005	0·10387	0·07661	1·44899	0·07081	85·253	109. 3. 14·50	1859·8	4
1988	5*	78 Pegasi	23. 36. 57·34	1859·8	3	2·999	+0·0161	+ 0·010	0·10569	0·07642	1·44714	0·09207	83·799	61. 24. 49·29	1858·1	6
1989	5*	20 Andromedæ ...... ψ	23. 39. 6·48	1859·8	2	2·948	+0·0287	0·000	0·11226	0·07603	1·44634	0·10309	82·608	44. 21. 24·54	1859·8	2
1990	6*	19 Piscium............	23. 39. 14·31	1856·5	6	3·066	+0·0021	+ 0·002	0·10259	0·07699	1·44819	0·08031	84·732	87. 17. 23·15	1856·6	5
1991	5*	5 Cassiopeiæ .... τ	23. 40. 13·65	1859·9	4	+ 2·888	+0·0426	+ 0·006	0·12218	0·07525	1·44542	0·11586	81·038	32. 7. 39·89	1859·9	1
1992	6*	20 Piscium............	23. 40. 44·75	1857·7	4	3·079	−0·0010	+ 0·002	0·10263	0·07716	1·44838	0·07770	84·882	93. 32. 22·97	1857·7	4
1993	6*	Bradley 3166	23. 41. 14·34	1860·5	3	2·814	+0·0594	+ 0·006	0·13681	0·07410	1·44426	0·13250	78·797	22. 58. 15·76	1860·3	7
1994	4·5*	Sculptoris .... δ	23. 41. 37·60	1857·6	17	3·131	−0·0162	+ 0·009	0·10582	0·07696	1·44919	0·06570	85·415	118. 54. 15·15	1857·1	14
1995	6*	21 Piscium............	23. 42. 17·38	1857·4	14	3·072	+0·0011	+ 0·003	0·10259	0·07731	1·44827	0·07931	84·773	89. 42. 3·22	1857·3	13
1996	6	22 Piscium............	23. 44. 47·89	1856·7	8	+ 3·069	+0·0022	+ 0·004	0·10264	0·07758	1·44822	0·08009	84·700	87. 50. 51·92	1856·7	8
1997	..	......	23. 45. 41·10	1858·9	3	3·083	−0·0030	..	0·10282	0·07766	1·44845	0·07589	84·953	97. 44. 41·82	1858·9	3
1998	..	......	23. 46. 27·08	1858·9	2	3·083	−0·0029	..	0·10282	0·07774	1·44844	0·07596	84·944	97. 34. 18·03	1858·9	2
1999	6	26 Piscium............	23. 47. 58·22	1857·0	5	3·064	+0·0045	+ 0·005	0·10277	0·07791	1·44815	0·08183	84·552	83. 42. 26·40	1857·0	5
2000	5	Groombridge 4163...	23. 48. 3·78	1859·1	4	2·835	+0·0872	+ 0·027	0·15723	0·07471	1·44459	0·15432	75·333	16. 22. 6·94	1857·4	18

1964, 1971, and 1980. These stars are respectively identical with Schwerd 1352, 1364, and 1375.

1967. The magnitude has been taken from Piazzi.

1984. The magnitude has been taken from Oeltzen's Argelander.

1986. This star is supposed to be the variable R Aquarii, though it differs 40ˢ in R.A. from the place assigned by Mr. Pogson. If so, the limits of magnitude are 7 and under 10; the period 388·5 days.

1994. This star is identical with Lacaille 9603.

Annual Precession in N.P.D. for 1860, from Peters' Elements.	Secular Variation of Precession in N.P.D.	Annual Proper Motion in N.P.D. from Main or B.A.C.	Logarithms of e′	Logarithms of f′	Logarithms of g′	Logarithms of h′	Value of l′	No. in Bessel's Bradley. 1755.	No. in Lalande Fedorenko (F.) 1790, or British Association (B.A.) 1800.	Hour and No. in Piazzi. 1800.	No. in Groombridge. 1810.	Hour and No. in Weisse's Bessel. 1825.	No. in Argelander. 1830.	No. in Pond's 1112. 1830.	No. in First Cambridge Catalogue. 1830.	No. in Johnson's (St. Helena). 1830.	No. in Fallows. 1830.	No. in Struve. 1830.	No.
″	″	″					″			XXIII.		XXIII.							
− 19·73	− 0·074	+ 0·02	9·93520	0·19283	0·72173	0·00890	117·650	3113	...	78	..	..	..	1080	..	588	406	..	1961
19·75	0·070	+ 0·12	9·88343	0·07617	0·72038	0·01084	129·157	3116	45895 (B.A.)	83	..	388	..	1082	704	..	407	..	1962
19·76	0·067	+ 0·06	9·87593	0·04279	0·71899	0·01286	131·859	3120	45944 (B.A.)	92	..	407	549	1083	..	..	..	..	1963
19·77	0·052	+ 0·01	9·95007	9·44108	0·71838	0·01378	148·732	3125	4479 (F.)	..	4071	..	..	1084	705	..	..	..	1964
19·78	0·064	− 0·06	9·86999	9·99792	0·71754	0·01504	134·443	3122	45974 (B.A.)	94	..	..	..	1085	..	..	..	..	1965
− 19·79	− 0·065	+ 0·34	9·89376	0·11096	0·71724	0·01546	125·983	..	...	96	..	438	..	..	..	..	408	..	1966
19·80	0·055	..	9·92127	9·56195	0·71591	0·01747	147·762	..	...	100	4077	..	..	..	..	..	..	..	1967
19·80	0·055	− 0·02	9·92158	9·56183	0·71572	0·01777	147·735	..	...	101	4078	..	..	1086	..	..	..	..	1968
19·81	0·061	+ 0·33	9·89248	0·10841	0·71492	0·01906	126·047	..	46056 (B.A.)	103	..	478	..	..	..	..	..	..	1969
19·84	− 0·060	− 0·04	9·93018	0·19463	0·71308	0·02200	117·080	3130	46124 (B.A.)	114	..	..	..	1087	..	590	..	..	1970
− 19·86	+ 0·009	..	0·01456	9·32559	0·71107	0·02535	146·184	3147	4527 (F.)	135	4101	..	..	..	..	..	..	..	1971
19·86	− 0·054	..	9·89137	0·10721	0·71088	0·02571	125·840	..	46194 (B.A.)	..	..	566	..	..	..	..	..	..	1972
19·88	0·051	− 0·06	9·88258	0·07075	0·70964	0·02785	128·694	3139	46248 (B.A.)	132	..	599	..	..	..	..	..	..	1973
19·89	0·047	..	9·89878	9·72407	0·70886	0·02922	144·075	..	46261 (B.A.)	..	..	..	..	..	..	..	..	..	1974
19·89	0·045	+ 0·43	9·90617	9·69032	0·70825	0·03043	144·659	3143	46291 (B.A.)	138	4106	..	551	1089	..	..	..	2837	1975
− 19·90	− 0·045	− 0·02	9·90075	9·72404	0·70770	0·03142	143·866	3144	46311 (B.A.)	142	4109	..	..	..	..	..	..	..	1976
19·91	0·046	+ 0·02	9·90950	0·16345	0·70657	0·03357	120·163	3145	46340 (B.A.)	143	..	663	..	1090	..	593	..	..	1977
19·91	0·044	+ 0·45	9·87938	0·04758	0·70638	0·03397	130·030	3148	46351 (B.A.)	145	..	667	552	1091	..	..	..	..	1978
19·92	0·041	− 0·01	9·90639	9·71215	0·70570	0·03531	143·750	3149	46383 (B.A.)	151	4118	..	..	1092	..	..	..	..	1979
19·92	0·032	− 0·15	9·99542	9·36671	0·70559	0·03551	146·224	3152	{ 4540 (F.) 46419 (B.A.) }	155	4122	..	553	1093	708	..	..	2841	1980
− 19·93	− 0·042	+ 0·05	9·91656	0·18191	0·70500	0·03669	118·076	3150	46415 (B.A.)	154	..	..	..	1094	..	594	414	..	1981
19·93	0·042	− 0·07	9·91598	0·18098	0·70484	0·03701	118·166	3151	46425 (B.A.)	156	..	..	..	1095	..	595	..	..	1982
19·93	0·038	..	9·91944	9·65607	0·70477	0·03721	144·591	..	46437 (B.A.)	..	4125	..	..	..	..	..	..	..	1983
19·94	0·031	..	9·99677	9·36754	0·70461	0·03751	146·025	..	...	..	..	..	..	..	..	..	..	..	1984
19·94	0·040	+ 0·17	9·88321	0·07276	0·70453	0·03771	127·990	3153	46445 (B.A.)	158	..	711	..	1096	..	..	..	..	1985
− 19·95	− 0·038	..	9·90913	0·16889	0·70319	0·04058	119·329	..	...	..	..	..	..	..	..	..	..	..	1986
19·96	0·037	− 0·03	9·91519	0·18320	0·70291	0·04120	117·773	3159	46498 (B.A.)	165	..	..	..	1097	..	596	415	..	1987
19·96	0·035	− 0·01	9·88705	9·85973	0·70291	0·04123	139·080	3160	46504 (B.A.)	166	..	..	..	1098	..	..	..	..	1988
19·97	0·031	+ 0·01	9·91991	9·68831	0·70136	0·04490	143·257	3163	46574 (B.A.)	181	4137	..	..	1099	709	..	..	..	1989
19·97	0·032	− 0·02	9·88213	0·06176	0·70128	0·04513	128·352	3162	46575 (B.A.)	182	..	792	..	1100	..	..	..	..	1990
− 19·98	− 0·028	− 0·06	9·95240	9·55187	0·70061	0·04680	144·818	3164	4563 (F.)	187	4138	..	..	1101	..	..	..	..	1991
19·99	0·029	+ 0·01	9·88767	0·10085	0·70025	0·04770	125·242	3165	46618 (B.A.)	188	..	823	..	..	712	..	416	..	1992
19·99	0·025	− 0·01	9·98019	9·45081	0·69997	0·04852	145·087	3166	4565 (F.)	191	4141	..	555	1102	..	..	..	..	1993
19·99	0·028	+ 0·10	9·93389	0·22575	0·69973	0·04920	112·478	..	46641 (B.A.)	192	..	..	..	1103	..	..	417	..	1994
20·00	0·026	+ 0·08	9·88406	0·07729	0·69933	0·05029	126·913	3167	46667 (B.A.)	197	..	861	..	..	..	..	..	..	1995
− 20·01	− 0·021	− 0·02	9·88304	0·06541	0·69793	0·05451	127·509	3174	46744 (B.A.)	209	..	900	..	..	..	..	..	..	1996
20·02	0·020	..	9·89120	0·12535	0·69753	0·05598	122·756	..	...	..	..	..	..	..	..	..	..	..	1997
20·02	0·018	..	9·89076	0·12433	0·69717	0·05725	122·775	..	...	..	..	..	..	..	..	..	..	..	1998
20·03	0·015	− 0·02	9·88247	0·03760	0·69652	0·05976	129·012	3183	...	228	..	974	..	..	..	..	..	..	1999
20·03	0·013	− 0·11	0·01191	9·38349	0·69648	0·05993	143·595	..	4592 (F.)	..	4163	..	..	1104	..	..	..	..	2000

The magnitudes of Stars taken from Argelander are marked with Asterisks. Other magnitudes are taken in the order of preference from the British Association Catalogue of 8377 Stars; from the Catalogue of Lalande published by the British Association; from Weisse's *Catalogus Stellarum ex Zonis Regiomontanis*; or, for the variable stars, from Mr. Pogson's lists in the "Radcliffe Observations, 1854 and 1856." The authorities for any remaining magnitudes are given in the Notes.

No.	Magnitude.	Star's Name.	Mean Right Ascension, 1860, Jan. 1, from Observations, 1854 to 1860.	Mean Year and Fraction of Year.	Number of Observations.	Annual Precession in R.A. for 1860, from Peters' Elements.	Secular Variation of Precession in R.A.	Annual Proper Motion in R.A. from Main or B.A.C.	Logarithms of e	f	g	h	Value of l	Mean North Polar Distance, 1860, Jan. 1, from Observations, 1854 to 1860.	Mean Year and Fraction of Year.	Number of Observations.
			h m s			s	s	s					s	° ′ ″		
2001	..	......	23. 49. 42·98	1856·4	2	+ 3·067	+0·0038	..	0·10272	0·07809	1·44820	0·08116	84·586	85. 16. 53·13	1855·9	3
2002	9	W. B. XXIII. 1032..	23. 50. 37·91	1856·4	2	3·068	+0·0038	..	0·10272	0·07820	1·44821	0·08113	84·581	85. 22. 28·13	1856·0	1
2003	5·6*	27 Piscium............	23. 51. 30·77	1857·2	5	3·076	−0·0008	− 0·008	0·10272	0·07828	1·44833	0·07735	84·826	94. 19. 57·55	1857·1	5
2004	4*	28 Piscium.......... ω	23. 52. 7·39	1858·5	79	3·067	+0·0046	+ 0·010	0·10278	0·07834	1·44820	0·08175	84·524	83. 54. 42·53	1858·3	38
2005	6·7	Bradley 3194	23. 53. 1·66	1860·3	2	2·501	+0·2653	+ 0·021	0·33004	0·06874	1·43935	0·32956	40·863	4. 4. 23·33	1860·3	3
2006	8	Lalande 47098	23. 54. 13·14	1858·5	5	+ 3·068	+0·0047	..	0·10278	0·07857	1·44822	0·08172	84·509	83. 59. 15·54	1858·5	5
2007	5	Bradley 3195	23. 54. 29·74	1859·8	3	3·015	+0·0523	..	0·12553	0·07801	1·44740	0·11976	80·145	29. 33. 25·59	1859·8	3
2008	5·6*	29 Piscium............	23. 54. 38·96	1857·1	4	3·074	−0·0004	− 0·002	0·10271	0·07862	1·44831	0·07757	84·791	93. 48. 24·08	1857·1	4
2009	5*	30 Piscium............	23. 54. 46·76	1855·5	8	3·076	−0·0020	+ 0·002	0·10282	0·07863	1·44833	0·07630	84·867	96. 47. 31·36	1855·5	8
2010	8	Groombridge 4202...	23. 55. 3·81	1859·8	3	3·039	+0·0352	..	0·11447	0·07838	1·44776	0·10607	81·953	41. 0. 28·28	1859·8	3
2011	9	Lalande 47132	23. 55. 13·48	1858·8	7	+ 3·075	−0·0020	..	0·10282	0·07867	1·44832	0·07629	84·866	96. 50. 14·87	1858·8	7
2012	6	31 Piscium .... c^1	23. 55. 14·09	1857·9	5	3·068	+0·0059	− 0·001	0·10290	0·07867	1·44821	0·08263	84·431	81. 49. 21·65	1857·9	6
2013	6*	32 Piscium .... c^2	23. 55. 20·48	1856·9	6	3·068	+0·0057	− 0·002	0·10287	0·07868	1·44822	0·08243	84·446	82. 17. 32·34	1856·9	6
2014	7·8	Groombridge 4207...	23. 55. 58·19	1855·8	1	3·051	+0·0282	..	0·11047	0·07861	1·44795	0·10035	82·638	48. 1. 53·04	1855·8	2
2015	4·5*	2 Ceti	23. 56. 33·88	1858·4	27	3·079	−0·0081	− 0·001	0·10385	0·07880	1·44838	0·07122	85·123	108. 6. 55·42	1858·0	20
2016	8	Groombridge 4215...	23. 56. 58·52	1859·9	2	+ 3·052	+0·0359	..	0·11462	0·07869	1·44796	0·10628	81·889	40. 47. 28·68	1859·9	2
2017	7·8	Groombridge 4216...	23. 56. 59·60	1859·9	5	3·052	+0·0358	..	0·11454	0·07870	1·44796	0·10617	81·903	40. 54. 33·24	1859·9	5
2018	5	Groombridge 4222...	23. 57. 53·49	1859·9	3	3·050	+0·0539	..	0·12565	0·07873	1·44794	0·11991	80·033	29. 27. 56·78	1859·9	3
2019	5*	33 Piscium............	23. 58. 10·13	1855·4	11	3·073	−0·0016	− 0·002	0·10281	0·07899	1·44829	0·07643	84·837	96. 29. 26·85	1855·4	10
2020	8	Groombridge 4226...	23. 58. 10·85	1859·8	3	3·060	+0·0359	..	0·11448	0·07889	1·44808	0·10608	81·892	41. 0. 25·10	1859·8	3
2021	7·8	Groombridge 4229...	23. 58. 44·74	1859·9	3	+ 3·064	+0·0358	..	0·11439	0·07898	1·44814	0·10594	81·898	41. 9. 26·71	1859·9	3
2022	6·7	Bradley 3212	23. 59. (21.)	..	..	3·070	+0·0179	+ 0·035	0·10574	0·07910	1·44824	0·09196	83·534	61. 45. 3·52	1855·7	2

2005. This star is identical with Schwerd 1388.

Annual Precession in N.P.D. for 1860, from Peters' Elements.	Secular Variation of Precession in N.P.D.	Annual Proper Motion in N.P.D. from Main or B.A.C.	Logarithms of e′	f′	g′	h′	Value of l′	No. in Bessel's Bradley. 1755.	No. in Lalande Fedorenko (F.) 1790, or British Association (B.A.) 1800.	Hour and No. in Piazzi. 1800.	No. in Groombridge. 1810.	Hour and No. in Weisse's Bessel. 1825.	No. in Argelander. 1830.	No. in Pond's 1112. 1830.	No. in First Cambridge Catalogue. 1830.	No. in Johnson's (St. Helena). 1830.	No. in Fallows. 1830.	No. in Struve. 1830.	No.
″	″	″					″			XXIII.		XXIII.							
−20·04	−0·012	..	9·88298	0·04839	0·69588	0·06260	128·125	..	...	..	..	..	..	..	..	..	..	..	2001
20·04	0·010	..	9·88321	0·04895	0·69555	0·06413	127·981	..	...	..	..	1032	..	..	..	..	..	..	2002
20·04	0·008	+ 0·12	9·88655	0·10568	0·69531	0·06555	123·837	3189	46992 (B.A.)	244	..	1051	..	1105	719	601	419	..	2003
20·04	0·007	+ 0·13	9·88360	0·03904	0·69511	0·06656	128·438	3191	47017 (B.A.)	246	..	1062	556	1106	..	..	..	..	2004
20·05	0·003	..	0·05649	9·30747	0·69491	0·06804	141·268	3194	4620 (F.)	..	4193	..	..	..	..	..	..	..	2005
−20·05	−0·003	..	9·88417	0·03950	0·69467	0·06995	128·162	..	47098 (B.A.)	..	..	1106	..	..	..	..	..	..	2006
20·05	0·002	+ 0·01	9·98457	9·51896	0·69463	0·07038	142·276	3195	4626 (F.) / 47110 (B.A.)	..	4198	..	..	1107	720	..	..	..	2007
20·05	0·002	+ 0·01	9·88564	0·10252	0·69459	0·07065	123·775	3196	47113 (B.A.)	255	..	1114	..	1108	721	603	421	..	2008
20·05	0·002	+ 0·04	9·88750	0·12004	0·69455	0·07087	122·376	3197	47115 (B.A.)	256	..	1116	..	1109	722	604	..	..	2009
20·05	0·001	..	9·95381	9·64881	0·69451	0·07132	140·984	..	47128 (B.A.)	..	4202	..	..	..	..	..	..	..	2010
−20·05	−0·001	..	9·88745	0·12023	0·69451	0·07156	122·316	..	47132 (B.A.)	..	..	1130	..	..	..	..	..	..	2011
20·05	0·001	+ 0·01	9·88508	0·02437	0·69451	0·07159	128·950	3200	47135 (B.A.)	260	..	1132	..	..	..	..	..	..	2012
20·05	−0·001	+ 0·03	9·88497	0·02777	0·69446	0·07175	128·737	3201	47138 (B.A.)	261	..	..	..	..	..	..	..	..	2013
20·05	+0·001	..	9·93732	9·72543	0·69438	0·07277	139·578	..	47165 (B.A.)	..	4207	..	..	..	..	..	..	..	2014
20·05	0·002	0·00	9·89889	0·17924	0·69430	0·07373	116·857	3204	47179 (B.A.)	264	..	..	..	1110	..	605	422	..	2015
−20·05	+0·003	..	9·95737	9·64630	0·69426	0·07436	140·661	..	47192 (B.A.)	..	4215	..	..	..	..	..	..	..	2016
20·05	0·003	..	9·95708	9·64778	0·69426	0·07439	140·636	..	47195 (B.A.)	..	4216	..	..	..	..	..	..	..	2017
20·06	0·005	..	9·99056	9·51773	0·69418	0·07583	141·599	..	4653 (F.) / 47218 (B.A.)	..	4222	..	..	..	..	..	..	..	2018
20·06	0·005	− 0·03	9·88632	0·11823	0·69414	0·07628	122·201	3208	47227 (B.A.)	272	..	1189	..	1111	724	606	424	..	2019
20·06	0·005	..	9·95871	9·64869	0·69414	0·07631	140·398	..	47230 (B.A.)	..	4226	..	..	..	..	..	..	..	2020
−20·06	+0·006	..	9·95923	9·65033	0·69414	0·07721	140·266	..	4657 (F.) / 47246 (B.A.)	..	4229	..	..	..	..	..	..	..	2021
20·06	0·007	+ 0·17	9·91196	9·86134	0·69410	0·07817	135·557	3212	47261 (B.A.)	276	..	..	559	..	725	..	..	..	2022

The magnitudes of Stars taken from Argelander are marked with Asterisks. Other magnitudes are taken in the order of preference from the British Association Catalogue of 8377 Stars; from the Catalogue of Lalande published by the British Association; from Weisse's *Catalogus Stellarum ex Zonis Regiomontanis*; or, for the variable stars, from Mr. Pogson's lists in the "Radcliffe Observations for 1854 and 1856." The authorities for any remaining magnitudes are given in the Notes.

CORRECTIONS

TO

THE TWELVE-YEAR CATALOGUE

OF 2156 STARS,

FOR THE EPOCHS **1840** AND **1845,**

AND TO

THE SIX-YEAR CATALOGUE

OF 1576 STARS,

FOR THE EPOCH **1850.**

It is stated in the Introduction (above), page {vi}, line 14, and page {x}, line 5, that the correction for the Proper Motion during the fraction of each year of observation, peculiar to stars which have Proper Motion but are not included in the Nautical Almanac List, is omitted in the Twelve-Year and the Six-Year Catalogues. The calculation of this correction has now been made for all the stars whose Annual Proper Motion amounts to $0^s{\cdot}03$ in R.A., or $0''{\cdot}30$ in N.P.D.; the corrections are retained when they rise respectively to $0^s{\cdot}03$ or to $0''{\cdot}06$; and the corrected places are given below. In the same tables are included the corrected places for all stars in whose places errors have been produced by any other cause.

Corrections are also given for all other errors in the Twelve-Year and Six-Year Catalogues which have been discovered since their publication.

It is stated in the Introduction (above), page {xi}, line 14, that a part of the numerical expression for the Secular Variation of Precession is omitted in the Twelve-Year and the Six-Year Catalogues. The formulæ for the omitted terms are—

In R.A. (expressed in seconds of time), $0^s{\cdot}00322 - 0{\cdot}0004304 \times$ Precession in R.A.
In N.P.D. (expressed in seconds of arc), $- 0{\cdot}0004304 \times$ Precession in N.P.D.

As it is impossible to exhibit these in a short Table, and as they are easily computed in any particular instance, I content myself with calling the reader's attention to them.

CORRECTED MEAN RIGHT ASCENSIONS and MEAN NORTH POLAR DISTANCES for 1840 and for 1845, and MEAN YEAR and FRACTION of YEAR, for STARS of the GREENWICH TWELVE-YEAR CATALOGUE of 2156 STARS.

(The asterisk * denotes that a correction is introduced for Proper Motion; and the obelus † denotes that a correction is made for some error of computation or printing.)

No.	Star's Name.	Mean Right Ascension, 1840, Jan. 1.	Mean Year and Fraction of Year.	Mean Right Ascension, 1845, Jan. 1.	Mean Year and Fraction of Year.	Mean N. P. D., 1840, Jan. 1.	Mean Year and Fraction of Year.	Mean N. P. D., 1845, Jan. 1.	Mean Year and Fraction of Year.	No.
		h m s		h m s		° ′ ″		° ′ ″		
3*†	11 Cassiopeiæ.... β	0. 0. 40·67	1837·8			31. 43. 58·68				3
37*	Piazzi 0. 130....	0. 29. 7·08	1838·8							37
46*	24 Cassiopeiæ.... η			0. 39. 45·47	1843·9	33. 2. 5·88	1837·2	33. 0. 29·54	1843·9	46
47*	{ B.F. 75 ..... } { Piazzi 0. 189. }					85. 32. 35·91	1837·9			47
52*	Bradley 74	0. 40. 21·93	1839·9							52
59*	2 Ursæ Minoris ...	0. 48. 2·94	1837·8							59
70*	30 Cassiopeiæ.... μ	0. 57. 40·17	1838·4			35. 52. 1·74	1838·4	35. 50. 33·34	1844·8	70
89*	37 Ceti					98. 47. 5·40	1838·9	98. 45. 26·14	1847·9	89
107*	37 Cassiopeiæ.... δ			1. 15. 43·58	1843·9					107
115*	48 Andromedæ... ω			1. 18. 24·51	1843·9					115
135*	50 Andromedæ.....					49. 23. 51·07	1841·9	49. 22. 19·20	1845·5	135
141*	Piazzi I. 139....	1. 31. 51·55	1837·9							141
221*	Piazzi II. 123...	2. 27. 18·70	1838·2					83. 51. 22·90	1846·4	221
260†	92 Ceti ..... α	2. 53. 55·23								260
274*	12 Eridani					119. 37. 18·36	1838·5	119. 36. 3·20	1846·0	274
402†	9 Camelopardali...			4. 38. 40·96						402
428*	13 Aurigæ ..... α					44. 10. 22·52	1838·4	44. 10. 1·00	1844·8	428
435*	15 Aurigæ ..... λ					50. 3. 4·89	1840·7	50. 2. 44·83	1846·7	435
500*	Groombridge 1004			5. 43. 33·63	1844·5					500
533†	1 Lyncis			6. 3. 37·15						533
622*	Piazzi VI. 305 ..					60. 24. 6·12	1841·3			622
642*	18 Lyncis					30. 5. 13·41	1841·2	30. 5. 41·24	1845·5	642
643†	....	7. 1. 14·20		7. 1. (30.)						643
644†	....			7. 1. (30.)						644
714†	....			7. 51. (50.)						714
730*	Cancri..... ζ²					71. 52. 34·90	1841·2	71. 53. 27·70	1845·3	730
818*	Piazzi IX. 37 ...	9. 13. 42·23	1838·7	9. 14. 29·29	1845·0					818
867*	Bradley 1399 ...	10. 5. 15·95	1838·9							867
869†	33 Ursæ Majoris . λ					46. 17. 22·78				869
963*	20 Crateris.....					121. 59. 5·71	1837·3			963
976*	Groombridge 1830			11. 44. 1·53	1845·8			51. 10. 10·90	1846·1	976
979*	Lacaille 4933 ...					114. 49. 38·82	1837·3			979
988*	Piazzi XI. 218 ..					46. 0. 8·22	1840·3			988
1004*	Bradley 1656 ...	12. 12. 6·32	1839·3							1004
1005†	16 Virginis c	12. 12. 13·46		12. 12. 28·64						1005
1007*	Bradley 1672 ...	12. 14. 28·39	1839·4	12. 14. 23·99	1842·5					1007
1021†	....			12. 37. (10.)						1021
1022†	Groombridge 1918	12. 36. 1·48								1022
1053*	43 Comæ							61. 20. 5·86	1845·6	1053
1056*	61 Virginis.....	13. 10. 2·52	1838·4	13. 10. 18·37	1846·1			107. 26. 50·49	1846·1	1056
1106*	Lacaille 5712 ...					120. 49. 24·68	1839·3			1106
1109*	8 Boötis ..... η					70. 47. 51·47	1839·5	70. 49. 22·92	1845·1	1109
1120*	5 Centauri..... θ					125. 34. 48·13	1839·2			1120
1135*	99 Virginis ..... ι					95. 14. 0·40	1836·3	95. 15. 28·29	1847·4	1135
1157*	23 Boötis ..... θ					37. 24. 26·59	1837·9	37. 25. 50·24	1844·7	1157
1176*	107 Virginis..... μ							94. 58. 52·25	1845·4	1176
1202*	Piazzi XIV. 212.	14. 48. 7·93	1838·5					110. 42. 42·72	1846·3	1202
1206†	....							55. 42. ...		1206
1236*	5 Serpentis.....							87. 38. 39·16	1845·8	1236
1274†	41 Libræ					108. 46. ...				1274
1289†	....	15. 39. 20·89								1289
1313*	49 Libræ					106. 3. 23·64	1837·5			1313
1325*	13 Draconis ..... θ			15. 58. 59·61	1843·9	31. 0. 21·30	1837·5	31. 1. 9·37	1843·9	1325
1336*	14 Herculis					45. 44. 59·45	1836·9			1336
1392*	40 Herculis..... ζ					58. 6. 12·61	1839·5			1392
1402*	26 Scorpii..... ε					123. 59. 46·38	1837·5			1402
1432*	Piazzi XVI. 291.							33. 4. 55·56	1843·4	1432
1452*	36 Ophiuchi.... A^1					116. 21. 38·87	1837·7	116. 22. 4·83	1842·4	1452
1453*	36 Ophiuchi.... A^2					116. 21. 34·95	1837·6	116. 22. 0·64	1842·4	1453
1454*	30 Scorpii.....					116. 18. 30·26	1837·5			1454
1472†	53 Serpentis ..... ν					102. 40. 41·99				1472

CORRECTED MEAN RIGHT ASCENSIONS and MEAN NORTH POLAR DISTANCES for 1840 and for 1845, and MEAN YEAR and FRACTION of YEAR, for STARS of the GREENWICH TWELVE-YEAR CATALOGUE of 2156 STARS—*concluded.*

No.	Star's Name.	Mean Right Ascension, 1840, Jan. 1.	Mean Year and Fraction of Year.	Mean Right Ascension, 1845, Jan. 1.	Mean Year and Fraction of Year.	Mean N. P. D., 1840, Jan. 1.	Mean Year and Fraction of Year.	Mean N. P. D., 1845, Jan. 1.	Mean Year and Fraction of Year.	No.
		h m s		h m s		° ′ ″		° ′ ″		
1507†	53 Ophiuchi .... f^2	17. 27. (0.)								1507
1520*	26 Draconis					28. 0. 7·12	1839·5	28. 0. 22·17	1846·5	1520
1566*	70 Ophiuchi (1st Star)							87. 27. 31·58	1845·4	1566
1567*	70 Ophiuchi (2d Star)							87. 27. 33·76	1845·6	1567
1593*	36 Draconis			18. 13. 0·14	1844·5					1593
1594*	58 Serpentis ..... η							92. 56. 2·57	1845·6	1594
1628*	Bradley 2335 ...							110. 10. 26·45	1846·0	1628
1701*	Piazzi XIX. 50..							105. 48. 2·24	1843·7	1701
1730*	31 Aquilæ..... b			19. 17. 34·70	1844·6					1730
1739†	Piazzi XIX. 140.			19. 20. 28·69						1739
1762*	61 Draconis ..... σ					20. 36. 37·62	1840·5	20. 36. 7·30	1845·1	1762
1776*	53 Aquilæ ..... α					81. 32. 57·65	1839·4	81. 32. 12·05	1844·7	1776
1823*	{ B.F. 2790 ... } { PiazziXX.119 }	20. 13. 24·63	1836·8							1823
1866*	3 Cephei ..... η					28. 46. 51·73	1837·8	28. 45. 44·19	1844·1	1866
1897*	65 Cygni..... τ					52. 38. 5·87	1838·8	52. 36. 49·11	1847·7	1897
1911†	....							74. 55. ...		1911
1918†	Groombridge 3492					33. 12. 7·28				1918
1970*	17 Cephei ..... ξ^1			21. 59. 17·32	1845·8					1970
1971*	17 Cephei ..... ξ^2			21. 59. 18·40	1845·8					1971
1994*	23 Cephei ..... ε	22. 9. 9·13	1841·5							1994
2023*	Bradley 2993 ...	22. 25. 4·49	1840·1							2023
2029*	31 Cephei.....			22. 31. 56·44	1845·8					2029
2087*	91 Aquarii..... ψ	23. 7. 30·05	1837·9							2087
2088*	6 Piscium ..... γ	23. 8. 52·16	1840·0	23. 9. 7·82	1845·5					2088
2094†	....							67. 1. ...		2094
2112*	39 Cephei (Hev.)...	23. 27. 48·36	1839·5	23. 27. 48·14	1842·9					2112
2115*	16 Andromedæ... λ					44. 24. 29·27	1840·0	44. 22. 53·08	1844·3	2115
2119*	17 Piscium ..... ι	23. 31. 43·26	1839·4	23. 31. 58·76	1844·9					2119
2148†	....			23. 55. 25·79						2148
2156*	Bradley 3212 ...			23. 58. 34·53	1844·7					2156

CORRECTIONS for other ERRATA in the GREENWICH TWELVE-YEAR CATALOGUE of 2156 STARS.

No. 402. R.A. Constants, Value of l, *for* 77ˢ·344 *read* 76ˢ·344.
Foot note, *dele* "the R.A. differs by more than 1ˢ from that Catalogue."

No. 474. Number of Observations for Mean R.A. 1840, Jan. 1, *insert* 2.

No. 529. N.P.D. Constants, Log. g′, *for* 1·39700 *read* 1·39888.
Value of l′, *for* 65″·193 *read* 65″·065.

No. 533. R.A. Constants, Log. e, *for* 0·08010 *read* 0·07827.
Value of l, *for* 79ˢ·846 *read* 79ˢ·973.

No. 560. R.A. Constants, Log. h, *for* 0·07739 *read* 0·07839.
Value of l, *for* 84ˢ·232 *read* 84ˢ·164.

Nos. 576 and 577. These stars appear to be identical.

No. 609. R.A. Constants, Value of l, *for* 85ˢ·619 *read* 85ˢ·557.

Nos. 643 and 644. Place these stars after No. 639.

No. 714. Star's Name, *insert* Lalande 15595.
R.A. Constants, *substitute* for those given,—
Log. e = 0·06694, Log. f = 0·10129, Log. g = 1·45493, Log. h = 0·07499. Value of l = 85ˢ·348.
N.P.D. Constants, *substitute* for those given,—
Log. e′ = 0·04048, Log. f′ = 0·13425, Log. g′ = 1·53674, Log. h′ = 0·31867. Value of l′ = 55″·131.

No. 753. N.P.D. Constants, Value of l′, *for* 30″·633 *read* 30″·533.

No. 760. N.P.D. Constants, Value of l′, *for* 43″·276 *read* 43″·327.

No. 818. Magnitude, *for* 5 *read* 4·5*.

No. 835. Star's Name, *for* Weisse IX. 614 *read* Weisse IX. 611.

No. 925. N.P.D. Constants, Log. e′, *for* 0·89741 *read* 9·89741.

No. 970. Magnitude, *for* 4·5 *read* 4·5*.

No. 1005. R.A. Constants, Value of l, *for* 88ˢ·015 *read* 88ˢ·201.

No. 1021. R.A. Constants, *substitute* for those given,—
Log. e = 0·02541, Log. f = 0·07079, Log. g = 1·44192, Log. h = 0·03210. Value of l = 93ˢ·953.
N.P.D. Constants, *substitute* for those given,—
Log. e′ = 9·93069, Log. f′ = 0·31609, Log. g′ = 1·65118, Log. h′ = 0·01612. Value of l′ = 57″·230.

P. (cxvi). Line 5, No., *for* 1555 *read* 1055.

No. 1120. R.A. Constants, Log. g, *for* 1·44549 *read* 1·45549.
Value of l, *for* 89ˢ·284 *read* 87ˢ·504.

No. 1176. N.P.D. Constants, Log. f′, *for* 9·71628 *read* 0·05386.
Value of l′, *for* 113″·340 *read* 98″·047.

No. 1202. N.P.D. Constants, *substitute* for those given,—
Log. e′ = 0·01360, Log. f′ = 9·97204, Log. g′ = 1·60057, Log. h′ = 9·72310. Value of l′ = 99″·714.

No. 1206. R.A. Constants, *substitute* for those given,—
Log. e = 0·05719, Log. f = 0·05890, Log. g = 1·43857, Log. h = 0·06694. Value of l = 90ˢ·742.
N.P.D. Constants, *substitute* for those given,—
Log. e′ = 9·66172, Log. f′ = 0·20780, Log. g′ = 1·59908, Log. h′ = 9·71700. Value of l′ = 97″·485.

No. 1289. R.A. Constants, *substitute* for those given,—
Log. e = 0·06299, Log. f = 0·05575, Log. g = 1·45786, Log. h = 0·08700. Value of l = 87ˢ·691.
N.P.D. Constants, *substitute* for those given,—
Log. e′ = 0·09015, Log. f′ = 9·96188, Log. g′ = 1·56191, Log. h′ = 9·57931. Value of l′ = 103″·082.

No. 1434. Star's Name, *for* 34 Ophiuchi ι *read* 34 Ophiuchi.

No. 1443. R.A. Constants, Value of l, *for* 84ˢ·495 *read* 88ˢ·495.

CORRECTIONS for other ERRATA in the GREENWICH TWELVE-YEAR CATALOGUE of 2156 STARS—*concluded.*

No. 1535. Secular Variation of Precession in R.A. *for* +0ˢ·0015 *read* +0ˢ·0115.
No. 1562. Reference to Pond's Catalogue, *for* 773 *read* 774.
No. 1784. N.P.D. Constants, Log. f′, *for* 0·06159 *read* 0·09612. Value of l′, *for* 137″·521 *read* 135″·136.
No. 1809. R.A. Constants, Log. g, *for* 1·44209 *read* 1·44309. Value of l, *for* 87ˢ·092 *read* 87ˢ·015.
No. 1810. R.A. Constants, Log. g, *for* 1·44208 *read* 1·44308. Value of l, *for* 87ˢ·084 *read* 87ˢ·007.
No. 1811. R.A Constants, Log. g, *for* 1·44209 *read* 1·44309. Value of l, *for* 87ˢ·080 *read* 87ˢ·003.
No. 1831. R.A. Constants, Value of l, *for* 86ˢ·573 *read* 86ˢ·637.
No. 2094. Star's Name, *insert* Piazzi XXIII. 48.
R.A. Constants, *substitute* for those given,—
Log. e = 0·10409, Log. f = 0·07372, Log. g = 1·44640, Log. h = 0·08908. Value of l = 84ˢ·368.
N.P.D. Constants, *substitute* for those given,—
Log e′ = 9·85715, Log. f′ = 9·91246, Log. g′ = 0·73041, Log. h′ = 9·99717. Value of l′ = 140″·283.
No. 2148. R.A. Constants, Log. g, *for* 1·44607 *read* 1·44762. Value of l, *for* 80ˢ·793 *read* 80ˢ·673.

CORRECTED MEAN RIGHT ASCENSIONS and MEAN NORTH POLAR DISTANCES, for STARS of the GREENWICH SIX-YEAR CATALOGUE of 1576 STARS.

(The asterisk * denotes that a correction is introduced for Proper Motion, and the obelus † denotes that a correction is made for some error of computation or printing.)

No.	Star's Name.	Mean Right Ascension, 1850, Jan. 1.	Mean N.P.D., 1850, Jan. 1.	No.	Star's Name.	Mean Right Ascension, 1850, Jan. 1.	Mean N.P.D., 1850, Jan. 1.
		h m s	° ′ ″			h m s	° ′ ″
26*	13 Cassiopeiæ.....	0. 22. 50·45		741*	53 Ursæ Majoris. ξ^1		57. 37. 39·19
46*	24 Cassiopeiæ.... η	0. 40. 3·27	32. 58. 52·25	756*	20 Crateris.....		122. 2. 13·80
47*	B.F. 75	0. 40. 31·14	85. 29. 28·07	770*	Groombridge 1830	11. 44. 19·04	51. 12. 20·04
50*	Bradley 65	0. 44. 31·45		780*	Piazzi XI. 218 ..		46. 3. 33·54
56*	2 Ursæ Minoris ...	0. 49. 9·80		797*	Bradley 1656 ...	12. 12. 24·72	
67*	37 Ceti		98. 43. 50·26	800*	Bradley 1672 ...	12. 14. 23·58	
75*	37 Cassiopeiæ .... δ	1. 16. 2·76		813*	8 Canum Venat.. β	12. 36. 36·64	
78*	38 Cassiopeiæ ... A	1. 20. 9·16		832*	Bradley 1731 ...	12. 48. 5·79	
104*	Piazzi I. 157....	1. 35. 22·10		844*	43 Comæ.....		61. 21. 37·03
105*	52 Ceti ..... τ	1. 37. 5·97	106. 43. 44·56	848*	61 Virginis.....	13. 10. 34·03	
148*	Piazzi II. 83....		80. 1. 50·65	880*	5 Centauri ..... θ		125. 37. 41·18
159*	Piazzi II. 123...	2. 27. 51·81	83. 49. 56·99	890*	99 Virginis ..... ι		95. 16. 56·43
205*	12 Eridani		119. 34. 51·39	914*	107 Virginis..... μ		95. 0. 10·23
232*	18 Eridani..... ϵ	3. 25. 52·02		1013*	41 Serpentis ..... γ		73. 50. 43·28
242*	23 Eridani..... δ		100. 16. 28·84	1024*	13 Draconis ..... θ		31. 1. 57·76
272*	40 Eridani ..... o^2	4. 8. 22·11	97. 53. 22·72	1048†	....	16. 21. 38·16	
390†	....	5. 25. 30·41		1070*	26 Scorpii ..... ϵ		124. 0. 54·14
411*	13 Leporis ..... γ		112. 30. 3·28	1101*	36 Ophiuchi.... A^1		116. 22. 36·76
425*	Groombridge 1004	5. 45. 46·17		1196*	58 Serpentis ..... η		92. 55. 59·95
543*	18 Lyncis.....		30. 6. 9·74	1275*	61 Draconis ..... σ		20. 35. 38·38
597*	14 Cancri ..... ψ^2		64. 2. 30·90	1342*	53 Cygni..... ϵ		56. 35. 21·03
599*	Cancri..... ζ^2		71. 54. 24·05	1472*	Bradley 2993 ...	22. 24. 29·80	
666*	Piazzi IX. 37 ...	9. 15. 15·49		1533*	39 Cephei (Hev.)...	23. 27. 49·26	
697*	Bradley 1399 ...	10. 6. 58·54		1573*	Bradley 3212 ...	23. 58. 50·20	
705*	Piazzi X. 22	10. 12. 17·57					

CORRECTIONS for other ERRATA in the GREENWICH SIX-YEAR CATALOGUE of 1576 STARS.

No. 151. N.P.D. Constants, Log. e′, *for* 0·92829 *read* 9·92829.
P. (xxxviii). Reference to Foot Note, *for* 204 *read* 205.
No. 288. Annual Proper Motion in R.A., *for* +0ˢ·088 *read* +0ˢ·008.
No. 482. R.A. Constants, Log. h, *for* 0·07739 *read* 0·07839. Value of l, *for* 84ˢ·232 *read* 84ˢ·164.
No. 664. Secular Variation of Precession in N.P.D., *insert* +0″·372.
No. 786. Star's Name, *for* 2 Corvi γ *read* 2 Corvi ϵ.
P. (lxxvi). Last Foot Note, *for* No. 850 *read* No. 847.
P. (lxxviii). Foot Note, *for* No. 89 *read* No. 889.
No. 972. Star's Name, *for* 31 Boötis μ^1 *read* 51 Boötis μ^1.
No. 1048. Annual Precession in R.A., *for* +3ˢ·546 *read* +3ˢ·022. No. in Greenwich 12-year Catalogue, *dele* 1363.
Nos. 1171 and 1172. *Add* Foot Note :—"These stars are designated in the B.A.C. as γ^1 Sagittarii and γ^2 Sagittarii."
No. 1294. N.P.D. Constants, Value of l′, *for* 135″·136 *read* 137″·521.
No. 1316. R.A. Constants, Value of l, *for* 86ˢ·573 *read* 86ˢ·636.
P. (cviii). Foot Note, Nos. 1404, 1407, 1408, *dele* the last number (1408).
P. (cix). Last column, No. following 1407, *for* 1608 *read* 1408.