

UNIVERSITY OF CALIFORNIA AT LOS ANGELES



GIFT OF Pacific Electric Co. Herman Poole, Buffalo, M.



THE CAPE CATALOGUE

OF

1159 STARS,

DEDUCED FROM OBSERVATIONS

AT THE

ROYAL OBSERVATORY, CAPE OF GOOD HOPE,

1856 TO 1861,

REDUCED TO THE EPOCH

UNDER THE SUPERINTENDENCE OF

E. J. STONE, M.A., F.R.S., F.R.A.S.,

(LATE FELLOW OF QUEEN'S COLLEGE, CAMBRIDGE),

HER MAJESTY'S ASTRONOMER AT THE CAPE.

PUBLISHED BY ORDER OF THE BOARD OF ADMIRALTY, IN OBEDIENCE TO HER MAJESTY'S COMMAND.



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INTRODUCTION

TO THE

CAPE CATALOGUE OF 1159 STARS,

FOR THE EPOCH 1860.

The Royal Observatory, Cape of Good Hope, was established by an Order in Council, dated 1820, October 20. The leading idea was to establish a first class Observatory in the Southern Hemisphere, for work of a similar character to that of the Greenwich Observatory in the Northern Hemisphere. The observations were to be made with instruments of the same class, and the results were to be drawn up in the same form, in order that the whole might constitute two corresponding series capable of comparison in all their parts. No opportunity of making observations capable of improving the Theory of Refraction was to be neglected.

The Observatory Buildings were completed; the instruments, similar to those at that time in use at Greenwich, mounted; and observations commenced in 1829. But the hand of death was almost upon the first Director. The Assistant, Capt. Ronald, broke down, and left in 1830; and Fallows, after struggling on, somewhat hopelessly, as best he could with the aid of his wife, died in July, 1831, at the early age of 43, with the expectations which had drawn him to South Africa unfulfilled. Much could not have been done under the circumstances in which Fallows was placed, and not much was done. A Catalogue of approximate places of the principal stars, south of the zenith of the Cape, made with small instruments, in Cape Town, was published in the Philosophical Transacstions for 1824, and another Catalogue, formed from observations made at this Observatory 1829-1831, appears in the Memoirs of the Royal Astronomical Society, Vol. XIX, published in 1851. It contains the Right Ascensions of 425 Stars: but of these only 88 have corresponding a observations in North Polar Distance; a considerable portion of these Hplaces are those of well-known Stars observed for clock error.

Fallows was succeeded by Mr. Thos. Henderson, who remained at the Cape a little more than a year; but that year must ever be a memorable one in the annals of the Cape Observatory. Henderson discovered the sensible parallax of a Centauri, and determined its amount with an accuracy which has left to his successors little more than a

verification of his result. He reduced and published, in 1835, the declinations of 172 Stars, and in 1844, in the Memoirs of the Royal Astronomical Society, the Right Ascensions of 174 of the principal Stars, the results of the observations made by him and his assistant at the Cape in 1831 and 1832. It is impossible to over-estimate the value of these papers as affording accurate places of a limited number of Stars at the epoch: but the extent of the Catalogue is small. Henderson removed all the records of his observations from the Observatory, with a view to their subsequent reduction, It is desirable that the original records should be returned for preservation at this Observatory. Mr. Henderson was succeeded by Mr. (now Sir Thomas) Maclear, who arrived at the Cape on the 5th of January, 1834. The observations made by Mr. Maclear and his Assistant in the year 1834 were published and distributed for the use of Astronomers, and some advance was made in the printing of the observations made in 1835, 1836, 1837; but the reductions of these years were never completed, and the printing was stopped. It would appear that attention was called off from attempts to form a Star Catalogue to the measurement of an arc of meridian. The field work of this arc was finished in 1847; but it was not until 1866 that the volumes containing the results were completely printed and published, and Sir Thos. Maclear placed in a position to receive the congratulations of his contemporaries on the completion of his work. Of the value of this work there cannot be two opinions: but it was allowed to disorganize the other work of the Observatory to such an extent that, when I assumed the Directorship in 1870, I found myself, with a very limited staff, unexpectedly confronted with the results of 36 years of miscellaneous observing in all stages of reduction, nothing completed, and nothing which could be brought forward for publication and use without a very considerable expenditure of time and skilled labour. I fear the course pursued of continuous miscellaneous observing without reduction, has not tended to the advancement of accurate Astronomy to any extent proportional to the labour expended upon the work, and still required to be expended upon it before the results can be rendered useful. Such observing is rarely conducted in a way to facilitate the subsequent reductions or to economize labour in observing. This will be apparent to any one who will count the number of observations of Stars between 67° and 117° North Polar Distance and consider that a Catalogue formed from the results of other years would contain observations of these Stars to very nearly the same relative extent. Of the large number of observations accumulated here from 1834 to 1855, with the Transit instrument and Mural Circles, the places of the Southern Stars, out of the reach of the Northern Observatories, will when reduced, still be of value for proper motions; but the immense number of observations of well-known Stars made here with

the old instruments can now, I fear, never repay the labour required for their reduction.

The Right Ascensions of those Stars which have been used for clock error can do little more than reproduce the assumed tabular places employed in the reductions, and the Right Ascensions of other Stars not further from the Equator than those of the usual clock-star list can never differ much from the results of the Northern Observatories.

The North Polar Distances of the same well-observed Stars can now be of little value. The results are not likely to be compared with those of the Northern Observatories for a discussion of the errors of the refraction tables when results made with more powerful instruments are available.

I have made these remarks, not only in justice to the present staff, and to explain the work upon which they have been employed, but because it was these considerations which led me to pass over the earlier observations, and to commence the systematic reductions with the year 1856, when the Transit Circle was first brought into regular use. I felt that these reductions could not be any longer delayed without the value of the results being greatly diminished. I had, and still have, hopes, that the data collected in the present Catalogue for corresponding observations at the Northern Observatories would be found sufficient to meet the actual requirements of Astronomers, so far as these requirements can be met by the material collected here, and that I might be relieved from the laborious and somewhat useless task of completing the reductions of the earlier observations of Stars whose positions have been fixed already with an accuracy greater than could be expected to be attained in the observations made with the, comparatively speaking, inferior instruments in use at this Observatory before the introduction of the Transit Circle.

The present Catalogue has been formed from the volumes of results of observations made at this Observatory in the years 1856, 1857, 1858, 1859, and 1860, the reductions for which have been completed and the results published since I took charge of the Observatory work in October, 1870. The observations of Stars near the South Pole observed in 1861 have also been included. The whole of the observations combined for the formation of this Catalogue were made with the Transit Circle, an instrument similar in all respects to the Greenwich instrument which has The results of the observations made at been in use since 1851. Greenwich, 1854 to 1860, have been formed into a Catalogue reduced to the epoch 1860. There exist two other Catalogues, of great value, reduced to the same epoch. January 1, 1860, has therefore been chosen as the epoch of the present Catalogue. This choice of epoch affords great facilities for a comparison between the Greenwich and Cape results, and also for the formation of a more general Catalogue, for the whole heavens, by the combination of the different Catalogues reduced to that epoch.

Comparison of the Mean Right Ascensions of Clock-stars in the Greenwich Catalogue for 1860, with those contained in the Cape Catalogue of 1159 Stars for 1860.

	Star's Name.	Mean R. A.	No. of G. Obs.	Seconds of Mean R.A. Greenwich.	No. of Cape Obs.	Seconds of Mean R.A. Cape.	Diff. G.—C.
Г							
		h m					
ı	a Andromedæ	0. I	59	9*44	4	9.36	+0.08
L	γ Pegasi	0. 6	67	1.49	15	1.82	-0.03
ı	12 Ceti	0°22	42	53.64	6	53.67	-0.03
ı	β Ceti	0.36	49	33.29	44	33.60	-0.01
1	δ Piscium	0.41	11	25.52	5	25.27	0,00
L							
1	ε Piscium	0.22	74	40.49	7	40.49	0,00
	e Piscium	1, 1	17	9.57	2	9.64	-0.04
	θ Ceti	1.12	69	1.23	15	1.23	0,00
i.	η Piscium	1.53	74	59.48	6	59.81	-0.03
ı	π Piscium	1.50	12	40.83	3	40.89	-0.06
L							
П	ν Piscium	1.34	62	8.87	4	8.91	-0.04
L	o Piscium	1.38	11	0.58	1	0.36	-0.08
1	β Arietis	1.46	52	54.72	13	54.41	. +o*o1
ı	a Arietis	1.29	75	17.28	13	17.26	+0.02
L	67 Ceti	2.10	40	0.10	10	0.11	-0.01
ı							
ı	ξ ² Ceti	2.20	50	43.13	6	43.19	-0.06
1	γ ² Ceti	2.36	56	2.95	10	2.97	-0.03
1	ε Arietis	2.21	10	12.77	18	12.77	0.00
1	a Ceti	2.54	57	57.83	13	57.80	4-0.03
L	δ Arietis	3. 3	51	37.74	8	37.74	0.00
1							
	17 Tauri	3.36	20	34.10	5	34.11	-0.01
1	η Tauri	3.39	67	10'09	8	10.07	+0.03
	γ¹ Eridani	3 51	40	29.90	13	29.95	-0.02
1	ol Eridani	4° 5	10	1.96	14	2.02	-0.06
	ε Tauri	4 20	67	26.41	11	26.40	+0.01
1							
	α Tauri	4.27	123	53.43	26	53.41	+0.02
	ε Leporis	4.59	23	32.10	11	32 13	-0.03
1	β Orionis	5. 7	101	48.63	42	48.63	0.00
1	β Tauri	5.17	68	26.67	17	26.64	+0.03
-	δ Orionis	5.54	38	51.30	15	51.31	-0.01
1_						1	

	THE RESIDENCE OF THE PARTY OF T			-	-		
	Star's Name.	Mean R. A.	No. of G. Obs.	Seconds of Mean R.A. Greenwich.	No. of Cape Obs.	Seconds of Mean R.A. Cape.	Diff. G.—C.
1	1	h m					
ı	a Leporis	5.26	15	33.36	1	33.36	0.00
ı	ε Orionis	5.29	28	6.60	3	6.55	+0.02
1	ζ Tauri	5.29	12	16.82	4	16.78	+0.01
ı	a Columbæ	5.34	21	34.79	21	34.81	-0.05
ı	a Orionis		86	35*59	28		
I	a Onoms	5°47	80	33 39	20	35*55	+0.04
ı	ν Orionis	5.20	12	34.41	8	34.68	+0.03
ı	η Geminorum	6. 6	35	25.65	7	25.28	+0.02
ı	κ Aurigæ	6. 6	18	27.45	3	27*47	-0.02
1	μ Geminorum	6.14	48	29.43	11	29*42	+0.01
	γ Geminorum	6.29	25	37.41	9	37.41	0.00
1		-,	-5	3, 1-	,	3/ 41	- 00
ı	ε Geminorum	6.35	12	19.00	2	18.91	+0.09
ı	ε Canis Majoris	6.53	28	7.45	28	7*39	+0.06
ı	γ Canis Majoris	6.57	15	25.47	6	25.20	-0.03
١	δ Geminorum	7.11	59	45.26	18	45.23	+0.03
ı	ε Geminorum	7.17	16	1.67	4	1.62	+0.02
ı		′ ′					
ł	a ² Geminorum	7.25	61	39°73	2	39.66	+0.02
ı	a Canis Minoris	7.31	118	58°34	30	58.31	+0.03
L	β Geminorum	7.36	119	44.68	3	44.62	+0.06
L	6 Cancri	7.54	49	54.86	2	54.80	+0.06
ı	15 Navis	8· 1	25	34°94	11	34.92	+0.02
ı							
ı	ψ ² Cancri	8 • 2	14	0.96	2	0.92	+0.04
l	η Cancri	8.24	40	36.48	7	36.46	+0.05
I	γ Cancri	8.32	35	10.46	2	10.76	0.00
I	ε Hydræ	8.39	57	21.27	8	21.26	+0.01
	83 Cancri	9.11	56	9.77	7	9.70	+0.02
				40.44			
	a Hydræ	9.20	49	42.44	17	42.44	0.00
1	ε Leonis	9°37	49	53*92	3	23.80	+0.05
1	ν Leonis	9.20	12	41'29	2	41.59	0.00
١	π Leonis	9 52 .	49	48.75	13	48.75	0.00
	a Leonis	10. 0	118	54.48	32	54.77	+0.01
I	γ¹ Leonis		28	14.95	_	*4600	-0.02
1		10*12		26.55	5	14.97	
	ρ Leonis	10.52	58		12	26.27	-0.02
ı	/ Leonis	10.41	60	53.74	6	53.77	-0.03
	c Leonis.	10.23	12	29.27	I	29.34	-0.07
ı	χ Leonis	10.22	44	47.60	16	47.58	+0.02
1		,			,		

	Star's Name.	Mean R. A.	No. of G. Obs.	Seconds of Mean R A. Greenwich.	No. of Cape Obs.	Seconds of Mean R.A. Cape.	Diff. G.—C.
١		h m		8		3	8
ı	δ Leonis	11. 6	54	39.20	4	39.48	+0.03
ı	δ Crateris	11.15	33	20.61	15	20.60	+0.01
ı	σ Leonis	11.13	40	54.98	7	54.98	0.00
	τ Leonis	11.50	45	44.30	6	44.51	-0.01
ı	υ Leonis	11.50	42	46.84	5	46.87	-0.03
1	0.7						
ı	β Leonis	11.41	53	54.98	4	54.92	+0.06
ı	β Virginis	11.43	22	24.13	5	24.15	+0.01
ı	π Virginis	11.23	44	41.89	1	41.94	-0.02
ı	ε Corvi	12. 5	19	55'79	13	55.48	+0.01
	η Virginis	12.12	55	44.64	5	44.40	-0.06
ı	β Corvi	12.27	30	2*34	35	2*35	-0.01
ı	χ Virginis	12.35	21	1.39	2	1,39	0.00
ı	ψ Virginis	12.47	17	4.21		4.63	-0.12
1	δ Virginis	12.48	80		4		
ł	θ Virginis			33.16	6	33.09	+0.07
ı	o virginis	13. 5	29	42.53	l °	42.51	+0.03
ı	a Virginis	13.12	223	49*27	23	49'27	+0.00
ı	ζ Virginis	13.27	60	33.40	3	33.65	+0.02
I	m Virginis	13.34	10	16.03	ı	16.08	-0.02
ı	η Boötis	13.48	57	1,13			
I	τ Virginis	13.24	50	31'42	4	31.48	-0.06
ı		3 34	٥,	3- 4-	7	3. 40	_00
ı	κ Virginis	14. 7	10	41.57		••	••
ı	a Boötis	14. 9	130	16.62	14	16.60	+0.02
L	λ Virginis	14.11	15	32°39	1	32.26	+0.13
	a Libræ	14.43	58	8.31	18	8.35	-0.04
1	20 Libræ	14.55	15	23.01	3	53.04	-0.03
	1 7 11 1						
1	ψ Boötis	14.28	35	26.85	4	26.77	+0.08
	β Libræ	15. 9	63	28.62	13	28.64	-0.02
	a Coronæ Borealis	15.58	92	45.69	4	45.61	+0.08
	a Serpentis	15.37	86	22.44	7	22.42	+0.02
	δ Scorpii	15.2	30	3.66	1	3°55	+0.11
	β Scorpii	15150		18.08		-0	
	δ Ophiuchi	15*57	40		26	18.10	-0.05
	σ Scorpii	16. 7	71	0.68	9	0.72	-0.04
1	- C:	16.15	11	41.00	6	41.05	-0.03
	a Scorpii	16.30	50	49.70	41	49.69	+0.01
	ε Ophiuchi	16.21	62	2.26	6	2.23	+0.03
-			-			- 1	

	Star's Name.	Mean R. A.	No. of G. Obs.	Seconds of Mean R.A. Greenwich.	No. of Cape Obs.	Seconds of Mean R.A. Cape.	Diff. G.—C.
ı	a Herculis	h m 17 * 8	57	15.92	2	12.01	+0.01
ı	0 Ophiuchi	17.13	43	24.86	23	24.84	+0.02
I	d Ophiuchi	17.18	14	25.10	16	25.04	+0.06
ı	a Ophiuchi	17.28	105	26.55	11	26.22	0.00
ı	μ Herculis	17.40	54	58.86	6	58.77	+0.00
ı							
ı	μ Sagittarii	18. 2	81	23°44	29	23°45	-0.01
1	δ Sagittarii	18.12	12	1.88	8	1.86	+0.05
ı	λ Sagittarii	18.19	22	19*84	10	19.83	+0.01
1	α Lyræ	18.39	92	11.92	13	11.85	+0.04
ı	φ Sagittarii	18.30	11	54.46	15	54°52	-0.06
ı	β Lyræ	18.44	124	54*71	10	54°73	-0.02
ı	σ Sagittarii	18*46	10	34°95	26	34.95	0.00
۱	ζ Aquilæ	18.28	117	58.2	19	58.55	-0.03
ı	ω Aquilæ	19.11	68	14.69	16	14.69	0.00
ı	δ Aquilæ	19.18	61	26.31	2.1	26.34	-0.03
ı	19.0 *** **	0					
ı	h² Sagittarii	19.58	27	11.01	25	11.04	-0.03
ı	γ Aquilæ	19.39	115	36.55	9	36.12	+0.07
ı	a Aquilæ	19.43	85	57·12 26·14	42	26.12	+0.03
١	β Aquilæ c Sagittarii			2.64	9	2.66	-0.03
ı	c Sagittarii	19.24	50	2 04	10	2 00	_0·02
ı	α ² Capricorni	20.10	32	17.03	26	17.05	-0.03
ı	β Capricorni	20.13	23	8.52	1	8.39	+0.13
ı	ρ Capricorni	20'20	20	52.26	20	52°30	-0.04
ı	ψ Capricorni	20.37	17	48.01	9	48.03	-0.05
	32 Vulpeculæ	20.48	65	35.66	4	35.67	-0.01
	θ Capricorni	20.28	41	4-34	6	4.35	-0.01
ı	ζ Cygni	21. 6	84	58.75	3	58.67	+0.08
ı	¿ Capricorni	21.14	48	26.78	14	26.76	+0.02
ı	β Aquarii	21.54	57	11.12	38	11.12	0.00
ı	γ Capricorni	21.35	16	19.77	15	19*78	-0.01
1							
	ε Pegasi	21.32	66	18.60	10	18.60	0.00
	δ Capricorni	21.39	26	18.23	12	18*54	-0.01
	16 Pegasi	21.46	50	41.63	4	41.65	-0.05
1	a Aquarii	21.28	70	35.20	12	35°49	+0.01
-	ε Aquarii	21.28	II	52.29	6	52.37	-0.08

Star's Name.	Mean R. A.	No. of G. Obs.	Seconds of Mean R.A. Greenwich.	Cape	Seconds of Mean R.A. Cape.	Diff. G.—C.
θ Aquarii	h m	49	26.59	15	26.61	-0.02
σ Aquarii	22.23	14	14.11	6	14.06	+0.02
η Aquarii	22.58	54	9.65	11	9.70	-0.02
ζ Pegasi	22.34	49	28-81	3	28.84	-0.03
λ Aquarii	22.45	35	18*48	3	18.20	-0.05
a Piscis Australis	22.49	59	54.38	40	54.36	+0.02
a Pegasi	22.51	54	47°33	3	47.30	+0.03
γ Piscium	23. 9	60	54°47	11	54°47	0.00
κ Piscium	23.19	56	45.31	7	45°34	-0.03
¿ Piscium	23.35	69	44.99	4	45.09	-0.10
& Sculptoris	23.41	17	37.60	11	37.62	-0.02
ω Piscium	23°52	79	7°39	12	7.40	-0.01

This list contains the Stars whose Right Ascensions have been employed for the determination of clock error in the reduction of the observations included in the present Catalogue. The Mean Right Ascensions adopted for the determination of clock error have been those of the Greenwich Catalogue of 2022 Stars for 1860, and the results have been carried back to the year of observation with the precessions, secular variations, and proper motions given in that Catalogue. No correction for epoch has been applied, and the fundamental epoch of this Catalogue should therefore be that of the Greenwich Catalogue. The differences between the Right Ascensions adopted for clock error and the resulting Right Ascensions are generally small, and the mean difference is only +05.002. But the differences are not quite constant throughout the twenty-four hours.

The following are the Mean Differences for intervals of three hours:

GREENWICH R.A.-CAPE R.A.

h h	h h	h h	h h	h h	h h	h h	h h
o to 3	3 to 6	6 to 9	9 to 12	12 to 15	15 to 18	18 to 21	21 to 24
-0.004	+0.002	+0.030	+0.003	-0.001	+0.010	-0.006	

The only one of these differences which is very strongly marked is that from 6^h to 9^h, but the Greenwich Right Ascensions from 5^h to 9^h, both inclusive, are systematically greater than the corresponding Cape

Right Ascensions, the mean difference being +0°021. These Stars were generally observed at the Cape during the months of December, January, and February. The changes of temperature in the evening are exceedingly rapid, the average change of temperature in January between 6° and 12° being 5°.4 F. I think it probable that, so far as the above differences indicate errors in the Cape places, they may be attributed to the mean rate not being strictly applicable over a group of Stars extending from soon after sunset to late on in the night. The Transit Clock was not, and is not now, protected from rapid changes of temperature, and the compensation most probably lags behind in its action.

The North Polar Distances have been reduced with the refractions of the Tabulæ Regiomontanæ to 85° Z.D.; but below 85° Z.D., instead of introducing the break in the mean refractions recommended by Bessel, the tables have been extended by using the mean refractions from the Fundamenta multiplied by the constant required to bring up the mean refractions of the Fundamenta to those of the Tabulæ Regiomontanæ.

The latitude of the Observatory assumed in the volumes of results has been that determined by Henderson, 33° 56′ 3″.2 South.

In the formation of this Catalogue I have adopted, from a preliminary investigation, 33° 56′ 3".56 South latitude.

The following table exhibits the corrections which this adopted quantity would still appear to require with the refraction tables in use. The weights in this table have been calculated from the probable errors at different zenith distances, given in my paper in the monthly notices of the Royal Astronomical Society:

LATITUDE INVESTIGATION.

Star's Name.	No. o	Below Pole.	Weight.	Excess of N.P.D. (Below — above.)
o Octantis	19	27	22.23	+0.11 =2x-1698
β Hydri	110	92	93.88	+0.11 =2x-104h
Lacaille 634	3	5	3'77	+0.15 = 2x - 173y
γ Hydri	27	25	24.27	0.68 =2x-216y
δ Mensæ	7	8	7.41	+0.09 = 2x - 184y
Lacaille 1639	9	4	5.00	+0.00 = 2x - 180
Lacaille 1752	10	7	7°43	-0.31 = 2x - 213y
A Octantis	14	10	11.33	+0.38 = 2x - 1723
β Argûs	9	4	3'43	+1.15 = 2x - 280y
ζ Octantis	17	3	3.93	+1.94 = 2x - 173y

	No. o	f Obs.		Excess of N.P.D.
Star's Name.	Above Pole.	Below Pole.	Weight.	(Below — above.)
* Octantis	34	25	28.45	+0°23 =2x-169y
B.A.C. 4460	6	2	2.77	-1.14 = 2x - 1.72y
κ Octantis	17	11	12.80	-0.76 = 2x - 172y
ε Apodis	4	1	1.31	+1.08 =2x-188h
Z Octantis	53	25	32.38	-0.08 = 2x - 171y
B.A.C. 4883	5	3	3.45	+1.28 = 2x - 179y
ρ Octantis	19	18	18.13	+0.03 =2x-176y
Brisbane 5607	16	6	8-21	+0.17 = 2x - 173y
γ Apodis	4	4	3.81	+0.65 = 2x - 193y
β Apodis	3	4	3°47	+0.60 =2x-197y
. A			1.24	-1.02 = 2x - 266y
Apodis	3 16	2	11'24	-0'19 =2x-170y
Brisbane 6058σ Octantis		9	42.49	$-0.20 = 5x - 100\lambda$
ε Pavonis	45		3'29	+0.78 =2x-2274
σ Pavonis	4	5	3.63	-1.89 = 2x - 278y
o i avonis	4)	3 03	
B Octantis	33	31	31.71	+0.41 = 2x - 169x
C Octantis	2.2	35	27*27	-0.43 = 2x - 171y
β Octantis	1	5	1.92	+0°42 =2x-180y
τ Octantis	39	87	54*04	-0.05 = 2x - 176y
γ ² Octantis	1	5	1.88	-1.51 = 2x - 177y

In these equations it is assumed that the true refraction = Tabular (1—y). South latitude = 33° 56' 3".56 + α .

From them we find, for the South latitude of the Observatory,—
33° 56′ 3″.55 + 91″y.

There are not a sufficient number of Stars, far removed from the pole, observed at their upper and lower culminations in North Polar Distance to allow of any accurate determination of y from the results of this Catalogue.

The latitude of the Cape Observatory must therefore be still considered as uncertain to half a second. If the value of y be determined from these equations, the results are,—

$$z = + 0$$
".416. $y = + 0.0047$.

The following method has been employed in the formation of the Catalogue:

In the first place, it must be remarked that the observations contained in the separate volumes of results are not corrected for the proper motion, for the fraction of the year of observation except for the Nautical Almanac Stars, for which Stars it has been included in the Star correction. All the observations of Stars common to this Catalogue and the Greenwich Catalogue for 1860, which are not contained in the Nautical Almanac, and for which proper motions are given in the Greenwich Catalogue, were first corrected for the proper motion for the fraction of a year, and then all the Stars common to the Greenwich Catalogue brought up to the epoch 1860, January 1, from the different years with the precessions, secular variations, and proper motions of the Greenwich Catalogue. The places for the Stars not contained in the Greenwich Catalogue were then brought up to 1860, with the precessions for the year of observation, or mean precessions, or the precessions approximately corrected for secular variations from the British Association Catalogue, and very approximate places for 1860 thus found. With these places the precessions and secular variations, for 1860, were computed. The results for the several years were then brought up to 1860 with greater accuracy, and combined in proportion to the number of observations in each year for places which were so far uncorrected for proper motions, except for the Nautical Almanac Stars to which they were applied.

A comparison was then made between these results and the places of the same Stars given in the following Catalogues:

Brisbane, in N. P. D. only, Fallows, Johnson, Henderson, and an unfinished Cape Catalogue for 1840, formed from the observations made, 1834 to 1840, the reductions for which were examined and completed so far as necessary for this comparison. From these comparisons proper motions were adopted for use in the present Catalogue. These proper motions were then applied, for the Stars not in the Greenwich Catalogue or Nautical Almanac, for the interval between the mean time of observation and the epoch of the Catalogue 1860, January 1. In cases where the adopted proper motions for Nautical Almanac Stars differed from those used in the Nautical Almanac the necessary corrections were applied. The whole of the results are therefore reduced with the proper motions given in the Catalogue, and the corrections for proper motion for the fraction of the year of observation have been applied in all cases when required. The intervals between this Catalogue and those compared with it for proper motions are but small, and no extreme accuracy can therefore be expected in the resulting proper motions; but after the experience of Baily, and some further trials of my own, it has not appeared to me desirable to trust to Lacaille's places for proper motions, and these adopted proper motions are therefore probably the best available. I believe them sufficiently accurate to bring up the places of the present Catalogue for twenty years with at least the accuracy of the earlier Catalogues.

I have not thought it necessary to give the Star constants. Very approximate constants computed for the reductions will be found for the Southern Stars in the volumes of results for the several years, 1856—1860,

and the constants for the Greenwich Stars are given for 1860 in the Greenwich Catalogue. The secular variations have been corrected for the change of m and n, as well as for changes in place. In some cases, where southern stars have been observed in North Polar Distance but no corresponding observations in Right Ascensions have been available during the period 1856 to 1861, I have reduced observations made in other years to fill up the gaps. These cases are clearly marked by the mean year of observation and by a note.

The references to other Catalogues have been much restricted for want of room. The Greenwich Catalogue generally referred to is that for 1860. When the places of a star are not contained in the Greenwich 1860 Catalogue, but are contained in the Greenwich Catalogue for 1864, references are given to the latter Catalogue and distinguished by an *. Henderson's Catalogue is only referred to for stars not contained in the Greenwich Catalogues. The letter H is prefixed to Henderson's numbers. Fallows' and Johnson's Catalogues are distinguished by the letter J. being prefixed to Johnson's Catalogue. In a few cases references have been made to the Radcliffe Catalogue for 1860, under the letter R. During the time this Catalogue has been in preparation the Observatory Staff, which should consist of four assistants, has consisted of but two. The first assistant, Mr. Mann, was absent from serious illness, which led to his resignation, and, very shortly afterwards, death. The third assistantship has been vacant for three years owing to deaths and delays in filling up the appointment. Under such circumstances, a very considerable portion of the mere arithmetical work has fallen directly upon me, and all of the examination. I have, however, when the computations have been made by me, re-computed the work again after an interval, and have taken all the precautions which occurred to me to insure accuracy. I hope that the errors contained in this Catalogue will be found but few, and those not important, and that the Catalogue may be found not unworthy of the Observatory. The reductions of the observations which this Catalogue contains, and the formation of the Catalogue, have occupied my chief thoughts during the three years I have been at the Cape.

It may be mentioned that the present is the first Star Catalogue ever printed at the Cape, and the first of any extent yet published from materials collected at this Observatory since its foundation. The printing has been done by Messrs. Saul Solomon and Co., who, at their own instigation, ordered out a fresh fount of type for the printing of the Cape observations. My thanks are due to them and to their leading printer, Mr. S. Wiid, for the care bestowed in passing through the press a very heavy work, and one of an unusual character in their office.

THE

CAPE CATALOGUE OF 1159 STARS

FOR

186o,

DEDUCED FROM

OBSERVATIONS

MADE AT THE

ROYAL ÓBSERVATORY, CAPE OF GOOD HOPE, 1856—1861.

	No.	No. in B.A.C.	Magnitude.	Star's Name,	Mean R.A. 1860, Jan. 1.	Mean year and Fraction of year.	No. of Obs. of R.A.	Annual Precess. in R.A. for 1860.	Secular Variation of Precess. in R.A.	Annual Proper Motion in R.A.
				A - 1 1	h m s	1800			6	8
ı	1	4	2	21 Andromedæ a	o 1 9'36	59.08	6	+ 3.076	+ 0.0181	+ 0.000
ı	2	11	4	Phænicis ε	0 2 17.66	59.86	1	3.028	- 0'0292	+ 0.008
ı	3	19	5	Octantis	0 3 36.48	56.44	7	2.901	- 0'2140	- 0.014
١	4	26	3.5	88 Pegasiγ		59.29	15	3.081	+ 0.0000	0.000
1	5	35	6	B.F. 3310	0 7 45	••		3.064	- 0.0035	••
ı	6	36	6	35 Piscium	0 7 46.29	60.89	2	3.028	+ 0.0066	+ 0.004
ı	7	64	5	Tucanæ ζ	0 12 44.83	60,00	3	2.908	- 0.0263	+ 0.562
ł	8	66	6.2	41 Piscium d	0 13 23.73	29.18	9	+ 3.085	+ 0.0066	0.005
ı	9	71	6.4	Octantis o	0.13 24'98	28.13	42	- 2.141	+ 4.7690	+ 0.040
1	IO	70	4.2	Tucanæ π	0 14 7.74	59°74	I	+ 2.841	- o.0684	••
1	11	88	3	Hydri β	0 18 19.91	59.63	238	2.568	- 0.0013	+ 0.720
	12	89	6	45 Piscium	0 18 28 95	28.03	10	3.082	+ 0.0066	- 0.001
	13	94	2	Phænicis a	0 19 21'44	59.67	1	2'967	- 0.0550	+ 0.055
١	14	112	6	12 Ceti	0 22 53.67	57.08	6	3.061	+ 0.0008	- 0.005
ı	15	127	4	Tucanæβ:	0 25 6.52	59.75	3	2'776	- 0.042	+ 0.008
١	*,	,			25 25	3973	3	-//-		1 0 10
ı	16	134	5	Lacaille 123	0 26 19.99	59.85	1	2.761	- 0.0446	+ 0.013
	17	143	5	Lacaille 137	0 27 47.40	59.82	2	2.856	- 0.0302	+ 0.032
ı	18	145	6.2	13 Ceti	0 28 2.22	56:55	I	3.000	+ 0'0012	+ 0.014
ı	19	149	6	W.B. oh 484	0 28 39.86	59.66	2	3.109	+ 0.0105	••
ı	20	176	5	Lacaille 172	0 33 50'96	59'74	2	2.728	- 0.0365	+0.152
ı	21	183	5	Phœnicis µ	0 34 41'98	59*93	1	2.857	- 0'02 32	- 0.000
ı	22	196	2	16 Cetiβ	0 36 33.60	59.15	44	3.000	- 0.00232	+ 0.013
ı	23	222	4'5	63 Piscium δ	0 41 25'27	58.47	5	3.101	+ 0.0048	+ 0.003
ı	24	242	5.6	20 Ceti	0 45 51	30 47		3.063	+ 0.0032	- 0.004
ı	25	265	6	Lacaille 259	0 49 40.38	59.83	1	2.677	- 0'0250	+ 0.001
	~5				T) T- 30	37.53		//		, 5 551
	26	272	5.4	Sculptoris a	0 21 21.38	59.95	8	2.898	- 0'0102	+ 0.001
	27	288	4	71 Piscium ε	0 55 40'79	58.27	7	3.115	+ 0.0086	- 0'002
	28	313	6	27 Ceti	0 58 36			3.008	- 0.0001	+ 0,000
	29	317	3'4	Phœnicisβ	0 59 49'77	60.01	5	2.696	- 0.0184	- 0,006
	30	328	6.2	80 Piscium e	1 1 9.64	56.29	2	3.103	+ 0.0044	- 0'021
	31	333	5	Tucanæ	1 1 45'15	60,18	2	2.388	- 0.0252	+ 0.003
	32	340	5	Phænicis ζ	1 2 28.98	59.86	2	2.538	- 0.0553	- 0°02 I
	33	341	6	Piazzi oh 311	1 2 46.30	60'90	2	3.168	+ 0.0134	+ 0.018
	34	368	5.4	86 Piscium ζ ¹	1 6 25.16	59.61	7	3.118	+ 0.0000	+ 0,008
	35	380	4.2	Phænicis v	1 8 51.63	59.96	7	+ 2.658	- 0.0160	+ 0.040
)	1			

		Year.	s, of	Annual	Secular		nnual		No.	for reference	
No.	Mean N.P.D. 1860,	of	of Obs. o N.P.D.	Precess.	Variation of	P	roper lotion		ei ei	9 d	ich
	Jan. 1.		° Z	N.P.D. for 1860.	Precess.in N.P.D.	N	in .P.D.	Lacaille,	Brisbane.	Fallows or Johnson.	Greenwich or Henderson
		N.E.	4			_		12	B	표 은	5 H
	011	1800					,				
1	61 40 57.74	57.98	14	- 20.06	+ 0.011	+	0.12		7384		3
2	136 31 11.78	59.72	9	20.02	+ 0.013	+	0,10	9742	3	2.J I	н 8
3 4	75 35 42.05	56.44	7	20.05	+ 0.012	+	0.03	9756	5	J 2	10
5	100 20 53.50	59.83	1	20.04	+ 0.053						
6	81 57 24.46	60.89	2	20.04	+ 0.024	+	0.02				12
7	155 41 52.03	60.00	3	20.03	+ 0.033	_	1.18	40	26	J 4	
8	82 35 15.10	59.18	9	20'02	+ 0.032	_	0.01				19
9	179 8 29.15	58.14	46	20'02	- 0.009		0.00		32	J ₅	H 2
10	160 24 9.52	59'74	1	20'02	+ 0.032	+	0.04	53	29		•••
11	168 2 34.67	59.37	202	19.99	+ 0.039		0'32	74	40	5.J 6	H 14
12	83 4 59.05	58.86	8	19.99	+ 0.042	+	0.02	/		3.5	24
13	133 3 59.25	59.67	1	19.98	+0.046	+	0'40	87	44	6.Ј 8	H 59
14	94 43 52.60	58.19	13	19.96	+ 0.023	+	0.01			7	31
15	153 43 47.09	59.75	3	19'94	+ 0.023	+	0.03	119	58	9.J 10	
16	153 48 9.93	59.85	1	19.92	+ 0.022		0.03	123	61	J 12	
17	143 8 48.78	59.82	2	19.91	+ 0.029		••	137	67		
18	94 21 51.19	56.55	1	19.91	+ 0.063	+	0.04				38
19	77 33 28-59	59.66	2	19.90	+ 0.062			٠.			40
20	150 14 29.07	59.74	2	19.84	+ 0.064	-	0.24	172	8 r	•• /	••
21	136 51 15'22	59.93		19.83	+ 0'071	+	0'12	177	84	J 13	
22	108 45 50.21	1	22	10.80	+ 0.048	_	0.05	-//	••	13.] 14	50
23	83 10 39.45	59 02	12	19.73	+ 0.000	+	0.02			14	59
24	91 54 19:19	59.86	1	19.66	+ 0.092	+	0,01			15.J 17	62
25	143 56 59.68	59.83	1	19.59	+ 0.095	+	0.09	259	121		
26	120 6 53.81	59.87	7	19.54	+ 0.103	+	0.03	266	125	16.J 18	69
27	82 51 52.14	29.18	34	19'47	+ 0.118	•	0.00	200	••		72
28	100 43 45'27	59.86	1	19.40	+ 0.150	+	0'01				133*
29	137 28 8.78	60.01	5	19.38	+ 0.110	+	0.04	308	145	17.J 19	
30	85 5 30.88	56.68	3	19.35	+ 0.158	+	0.19		• •	••	76
31	152 31 26.22	60.18	2	19.33	+ 0.101		0,01	316	155		1
32	145 59 42.19	59.84	5	19'32	+ 0.108	+	0 02	318	156	18.J 21	
33	75 4 19.46	60.90	2	19.31	+ 0.133	+	0.14		•••		80
34	83 9 57.64	59.61	7	19.22	+ 0.138	+	0.04		••	•,	82
35	136 16 49.05	59.92	9	- 19.16	+ 0.153	-	0.12	337	172) ···	
-	,					-				(

	No.	No. in B.A.C.	Magnitude,	Star's Name,	Mean R.A. 1860, Jan. 1.	Mean Year and Fraction of Year.	No. of Obs. of R.A.	Annual Precess. in R.A. for 1860.	Secular Variation of Precess. in R.A.	Annual Proper Motion in R.A.
I					h m s	1800				
I	36		7	Lalande 2312	1 10 8.02	60'92	3	+ 3.169	+ 0.0130	1 7
ı	37	392	5	Tucanæ ĸ	1 11 0'74	59.77	I	1.975	- 0.0124	+ 0.081
1	38	398	5	Lacaille 361	1 12 11'56	60'22	2	2.090	- 0.0181	+ 0.001
ı	39	420	3	45 Ceti θ	1 17 1.23	59.39	15	3,003	+ 0.0018	- 0.002
ı	40	422	. 5	Lacaille 391	1 17 7.28	60.22	2	2.026	- 0.0149	- 0'017
ı	41	426	5	Lacaille 392	1 18 28.70	59.84	3	2.665	- 0.0122	- 0.001
ı	42	427	5	93 Piscium ρ	1 18 42.77	59.78	2	3.555	+ 0.0163	- 0.003
ı	43	431	.5	94 Piscium	1 19 8.35	59.93	2	3'224	+ 0.0163	+ 0.004
ı	44	447	3	Phœnicis γ	1 22 16.89	59*90	4	2.618	- 0'0127	- 0.004
ı	45	448	. 5	98 Piscium μ	1 22 51.12	56.41	2	3.112	+ 0.0094	+ 0.010
ı	46	453	4.3	99 Piscium η	1 23 59.81	59'21	6	3.197	+ 0'0141	+ 0,000
ı	47	461	4	Phœnicis δ	1 25 25.00	59.89	2	2.496	- 0.0141	+ 0.000
ı	48	476	6	101 Piscium	1 28 17.56	59.79	10	3*197	+ 0'0138	+ 0.002
ı	49	477	6	Piazzi 1h 120	1 28 20.56	60'90	2	3'223	+ 0.0122	+ 0.011
ı	50	488	6	102 Piscium π	1 29 40.89	56.98	3	3.175	+ 00124	- 0.007
ı					^				-	
ı	51	507	1	Eridani a	1 32 29.68	59.61	15	2,533	-0.0130	+ 0.008
ı	52	518	5°4	106 Piscium v	1 34 8.91	59.59	4	3.112	+ 0.0000	- 0.004
1	53	537	4	110 Piscium o	1 38 o.36	56.48	1	3.124	+ 0.0110	+ 0.009
ı	54	539	6	Piazzi 1h 167	1 38 58	••		3.009	+ 0.0039	
ı	55	541	5	Sculptoris ε	1 39 5.50	59.92	3	2.802	- 0.0039	+ 0.000
ı	56	550	5	Eridani q2	1 40 45.72	59.86	3	+ 2.282	- 0,0100	+ 0.013
	57	554	5.6	Hydri	1 41 19.86	56.45	4	- 0.152	+ 0'1722	- 0.015
ı	58	557	6	Octantis	1 41 51.67	56.42	1	- 2.154	+ 0,2001	+ 0.001
	59	565	3	55 Ceti ζ			1	+ 2.957	+ 0.0051	- 0.005
		572								
ı	60	573	4'3	5 Arietis γ	1 45 51.13	58.73	I	+ 3.523	+ 0.0145	+ 0.005
ı	6 I	584	6	Lacaille 634	I 45 55'72	56.24	8	- 4.462	+ 1'3294	+ 0.026
	62	577	3.2	6 Arietis β		58.92	13	+ 3'292	+ 0.0182	+ 0.002
	63	582	5	Lacaille 559	1 48 1'74	59.89	3	2.421	- 0,0001	- 0.012
	64	585	5	Phœnicis ø	1 48 33.13	59.86	I	2.200	- 0.0083	- 0.012
J	65	592	6	8 Arietis		57.73	3	3.565	+ 0.0163	+ 0.002
	66	594	6	56 Ceti	1 50 6			2.807	- 0 0021	••
	67	596	4	Eridani x		59.82	2	2.270	- 0.0088	+ 0.064
	68	607	6	Piazzi 1h 222	1 51 49.80	59.78	4	3.302	+ 0.0182	+ 0.014
	69	623	3	Hydr1 α		29.91	21	1.826	- 0.0022	+ 0.034
	70	633	6	60 Ceti	1 56 1	•••		+ 3.066	+ 0.002	+ 0.008
		-				,	-	-		

Г		Mean Year and Fraction of Year.	os. of	Annual	Secular		nnual		No.	for reference	
No.	Mean N P.D. 1860,	Year of	Obs.	Precess.	Variation of	M.	roper lotion		1 1	, d	ich ion.
23	Jan. 1.	ction	of N.F	N.P.D. for 1860.	Precess in N.P.D.		in .P.D.	Lacaille.	Brisbane.	Fallows or Johnson	Greenwich or Henderson.
	1	Fra	No.	101 1000.	И.Т.Б.	1	.1 .D.	Lac	Bris	Fa	Gre
	0 , ,	1800					,				
36	76 29 44.39	60°92	4	- 19'12	+ 0.147		•• ,				
37	159 37 12.71	59 77	1	19.10	+ 0.096	-	0.15	356	178		
38	157 8 13.10	60.55	2	19.07	+ 0.105	-	0.01	361	180		
39	98 54 24.78	59°14	42	18 93	+ 0,123	+	0'22	••	••	20.J 22	92
40	157 7 1.61	60.55	2	18.93	+ 0.100	+	0.03	391	196	••	••
41	132 13 20.09	59.84	3	18.89	+0.139	+	0.06	392	199	J 23	
42	71 33 28.78	59.78	2	18.89	+ 0.166	-	0.06				94
43	71 29 10.79	59'93	2	18.87	+ 0.164	+	0.01				95
44	134 2 11.42	59.90	4	18 78	+ 0.145	+	0.24	419	209	22.J 25	H 58
45	84. 34 44.64	56 71	2	18.76	+ 0.164	+	0.18		••	23	96
46	75 22 37.61	59'43	24	18.72	+ 0'175		0.00				101
47	139 48 4.44	59.89	2	18.68	+ 0.140	-	0.14	440	216	24.J 26	
48	76 3 20.96	59.20	4	18.29	+ 0.183	-	0.03			••	104
49	73 17 3'27	60°90	2	18.29	+ 0.182	-	0.02			••	105
50	78 34 33.96	57.18	4	18.24	+ 0.182	-	0.03			••	107
	147 56 56.79		-	18:44	1 otra6	+	0.02	.0.		04 T 0=	H 36
51	85 13 20.41	58.43	16	18.39	+ 0,130	+	0.04	484	239	25.J 27	112
52 53	81 32 54'49	59°53	3	18.25	+ 0.130	_	0.01	••		27 29	117
54	96 26 6.76	59.94	1	18.22	+ 0,131			- :-		29	
55	115 45 12.88	59.92	3	18.51	+ 0.148	+	0.08	511		30.J 29	
33	3 .5	37 7-	3		1 - 1/0			3		339	
56	144 13 33.62	59.86	3	18.12	+ 0.120	-	0.04	523	254	••	
57	169 51 13.85	56.45	4	18.13	- 0.001	+	0.03	551	259	••	••
58	173 41 12.65	56.42	1	1811	-0.152	-	0.06	576	262		••
59	101 1 40.67	56.49	1	18.01	+ 0.192	+	0.15	••	••	31.J 31	H 109
60	71 23 35'44	58.73	1	17.95	+ 0'221	+	0.11				123
61	175 28 30.09	56.53	8	17.95	- o'283	-	0.01	634		2	
62	69 52 40.64	59.12	30	17.91	+ 0'224	+	0.11	• 5 +			125
63	136 59 22.89	59.88	5	17.87	+ 0,168	+	0.12	559	272		
64	133 11 6.31	59.86	1	17.85	+ 0'174	+	0.04	565	274	J 32	
65	72 52 2.59	57.73	3	17.80	+ 0'227	-	0.01	••	275	••	126
					1			-60			
66	113 12 43.55	59.82	1	17.79	+ 0.100		•••	568	••		
67 68	69 37 23.92	59.82	2	17'77 .	+ 0.161	1	0.52	575	278	32.J 33	128
69	69 37 23.92	59.28	4	17.2	+ 0'234	+	0.01	605	287	22 1 26	H 25
70	90 35 23.18	20.00	10	- 17.53	+ 0'137	+	0.01	005	207	33.J 36	269*
70	30 32 33 10	39 90		-/ 53	0 225	T	3 32			1117	209

	No.	No. in B.A.C.	Magnitude.	Star's Name.	Mean R.A. 1860, Jan. 1.	Mean Year and Fraction of Year,	No. of Obs. of R.A.	Annual Precess. in R.A. for 1860.	Secular Variation of Precess. in R.A.	Annual Proper Motion in R.A.
ı					h m s	1800			8	8
ı	71	632	6	Piazzi 1h 243	1 56 2,19	57.68	2	+ 3.577	+ 0.0164	+ 0.004
ı	72	634	5	Phœnicis x	1 56 5.48	59.88	4	2.412	- 0.0022	- 0,004
ı	73	648	2	13 Arietis a	1 59 17.26	59*12	13	3*352	+ 0.0503	+ 0.013
ı	74	659	6	Lacaille 640	2 1 37 49	59.83	I	2.078	- 0.0023	••
ı	75	663	6.7	Piazzi 1h 266	2 2 24	••	••	3.114	+ 0.0001	••
ı	76	682	5.6	17 Arietis η	2 4 58.20	59.67	4	3.335	+ 0.0188	+ 0,000
١	77	684	4.5	65 Ceti ξ1	2 5 34*97	56.78	1	3.125	+ 0.0112	- 0.004
ı	78	688	5	Fornacis µ	2 6 44 44	59.86	4	2.644	- 0.0035	- 0.003
١	79	704	6	67 Ceti	2 10 0.11	59.50	10	2.983	+ 0.0049	+ 0.003
ı	80	707	6.2	22 Arietis θ	2 10 20.69	60.88	3	3.324	+ 0.0128	- 0'002
۱	81	717	4	Eridani ø	2 11 30.31	59.87	5	2.138	- 0.0044	+ 0.002
ı	82	745	5.6	24 Arietis ξ	2 17 19.12	56.21	I	3.502	+ 0.0126	+ 0.000
ı	83	747	6	71 Ceti	2 17 54	••		3.022	+ 0.0066	+ 0.002
ı	84	756	4	Hydri δ	2 19 16.08	59.89	7	1.022	+ 0.0294	- 0.010
ı	85	760	4	73 Ceti ξ ²	2 20 43.19	59.10	6	3.178	+ 0.0112	+ 0.001
ı										
ı	86	763	4.2	Eridani ĸ	2 21 51.10	59.89	6	2.500	- 0.0032	+ 0.000
ı	87	771	6	27 Arietis	2 23 8.84	28.31	3	3,315	+ 0.0199	0.000
ı	88	781	5	76 Ceti σ	2 25 28	••	•••	2.847	+ 0.0024	- 0.001
ı	89	787 808	6.2	Lacaille 785	2 27 3.75	59.96	5	2.550	- 0.0029	
ı	90	000	0.5	32 Arietis v	2 30 52.37	59.93	2	3,395	+ 0.0135	- 0.005
	91	820	5.6	Horologiiη	2 32 47.29	59.95	2	1.969	- 0.0001	
ı	92	828	5	Lacaille 827	2 34 27.69	59.90	3	2.580	- 0.0021	+ 0.006
	93	825	6.5	34 Arietis μ	2 34 28.75	60.00	1	3.366	+ 0.0179	- 0.001
ı	94	832	4	Eridani	2 35 8.49	59.91	5	2.358	- 0'002 I	+ 0.003
ı	95	837	3*4	86 Ceti γ ²	2 36 2.97	59.42	10	3.111	+ 0.0003	- 0.011
ı	96	845	4	87 Ceti μ		-6				+ 0.014
ı	-	849		Hydri	2 37 26.95	56.41	I	3.514	+ 0.0124	+ 0.014
	97	864	6	Lacaille 875	2 40 16.96	20.08	3 2	0.878	- 0.0016	- 0.003
	99	867	6	40 Arietis	2 40 41.52	59.26		1	+00168	+ 0.002
	100	872	4	41 Arietis	2 41 44.86	60.60	4 2	3°347 3°508	+ 0.0228	+ 0.003
1	- 30	1	*	7.2 ************************************	3 To 44 00	00 00	-	3,500	0 0220	1 003
1	101	879	5	Fornacis β	2 43 13.87	59.93	9	2.202	- 0.0008	+ 0.008
1	102	882	5	Hydri ζ	2 43 24.00	59.91	4	0 885	+00333	+ 0.012
	103	911	6	Lacaille 937	2 49 18.53	59.96	3	1.598	+ 0.0169	+ 0.001
	104	913	6	47 Arietis	2 50 4.85	59.71	2	3.403	+ 0.0180	+ 0.019
1	105	921	4.2	48 Arietis ε	2 51 12.77	5891	18	+ 3.417	+ 0.0184	- 0.001
	-9						-			

		ear.	o ot	Annual	Secular	Annual		No.	for reference	
	Mean N.P.D.	Year and n of Year	Obs.	Precess.	Variation	Proper				4 6
No.	1860, Jan. 1.	Mean Ye	N.P.	in N.P.D.	of Precess.in	Motion	lle.	ıne,	ws son.	Greenwich or Henderson
	J	Aear	No.	for 1860.	N.P.D.	N.P.D.	Lacaille.	Brisbane,	Fallows or Johnson	o ende
		4 H	4				ï	B	H -	E
		1800								
71	72 25 17'30	57.68	2	- 17.54	+ 0'239	- 0.04		290	· .	136
72	135 23 19:35	59.88	4	17.54	+0'179	+ 0.03	610	291	J 37	
73	67 12 5.05	59.94	38	17.40	+0.251	+ 0.12		295		137
74	145 45 5.98	59.83	1	17:30	+ 0.161	+ 0.08	640	301		
75	86 25 56.89	59.82	I	17.26	+0.237			1		
76	69 26 54.69	59.63	3	17.15	+0.259	- 0.01		"		141
77	81 48 43.49	56.78	1	17.12	+ 0.248	+ 0.04			34	142
78	121 22 55.22	59.86	4	17.07	+ 0'210	- 0.08	666	315	0	
79	97 4 8.98	59.63	28	16.92	+0.241	+ 0.14		••		147
80	70 44 54.73	60.88	3	16.90	+ 0°268	+ 0.01			••	148
0.		00		=6.0	1				7 . 6	
81	142 9 41.37	59.88	7	16.85	+ 0.176	+ 0.02	693	327	35.J-38	
83	80 1 31.15	56.71	1	16.26	+ 0.271	- 0.02	••	••	38	153
84	93 24 56.80	59.91	1	16.53	+ 0.257			••		324*
85	82 10 9.97 129 14 20.29	59.89	7	16.39	+ 0.095	+ 0°02	747	351	39.J 41	***
03	82 10 g g/	59*23	13	10 39	+ 02/4	T 002	••	••		157
86	138 20 1'24	59.89	7	16.34	+ 0.193	+ 0.04	753	353	40.J 42	
87	72 55 2.13	58-31	3	16.27	+ 0.500	+ 0.09				159
88	105 51 39.83	59.90	1	16.12	+0.253	+ 0.04	••		42.J 43	336*
89	136 29 22.65	59.96	5	16.07	+ 0.505	- 0.11	785	367	••	••
90	68 38 47.22	59*93	2	15.87	+ 0.310	+ 0.05	••	••	••	168
91	143 9 1'50	59.96		15.76	+ 0'184	+ 0'02	821	0	100	
92	133 29 39.85	59.88	3	15.67	+ 0'214	+ 0.03	827	378	J 46	••
93	70 35 13.95	60.90	1	15.67	+ 0.313	+ 0.02		303	, 40	173
94	130 27 22'39	20.01	5	15.64	+ 0.222	+ 0.06	831	384	J 47	-/3
95	87 21 23.06	59.26	28	15.28	+0'292	+ 0.10		3-4		178
									0.1	
96	80 28 45.63	56.41	1	15.21	+ 0.304	+ 0.04	••	••	••	181
97	158 52 3.20	59.91	6	15.21	+ 0.088	+ 0'00	871	398	J 49	
98	133 25 38.49	59.98	2	15.35	+ 0.219	+ 0.04	875	406	••	11.
99	72 18 7'43	59.26	4	15,33	+ 0.322	- 0.02	••	••	••	185
100	63 19 9.14	60.60	2	15.52	+ 0.338	+ 0.13	•••	••	••	187
101	122 59 45*26	59.93	9	15.18	+ 0.245	- 0.13	888	415	, J 20	10.0
102	158 12 21.47	29.91	5	15.12	+ 0.001	- 0.03	907	420] 51	10.
103	153 28 58-33	59*97	4	14.83	+ 0.131	- 0.14	937	434		1.1
104	69 53 44'18	59.71	2	14.78	+ 0'342	+ 0.03	••	1.1	0.00	193
105	69 13 20 14	58.96	14	- 14.71	+ 0°345	+ 0.05	10.			194
-				1				-		

N	0.	No. in B.A.C	Magnitude,	Stars' Name.	Mean R.A. 1860, Jan. 1.	Mean Year and Fraction of Year.	No. of Obs. of R.A.	Annual Precess. in R.A. for 1860.	Secular Variation of Precess. in R,A.	Annual proper Motion in R.A.
					h m s	1800				
10		937	3*4	Eridani θ	2 52 57.15	59'94	6	+ 2.280	- 0.0001	- 0.008
IC	'	949	2.3	92 Ceti α	2 54 57.80	59.23	13	3.129	+ 0.0008	- 0'002
IC		966	6	53 Arietis	2 59 33.13	57.84	1	3.362	+ 0.0161	- 0.002
11	1	982 986	-5 4.2	Hydri θ 57 Arietis δ	3 1 59.63	59.85	8	3'406	+ 0.0121	+ 0.010
					3 3 37 74	58.32				
11	- 1	997	3.3	12 Eridani	3 -6 7.44	29.90	2	2.522	+ 0,0011	+ 0.022
11		999	4.2	58 Arietis ζ Lacaille 1105	3 6 51.55	60.00	II	+ 3'436	+ 0.0177	- 0.006
11	- 1	1038	5	61 Arietis 71	3 12 25.46	59°97	1	+ 3'448	+ 0.0122	- 0.001
111	. 1	1034	4:5	Lacaille 1060	3 14 20 28	59'93	7	2.112	+ 0.0014	+ 0'266
1	0	2044	43		3 -4 20 20	39 93	1	- 11/	1 0 00.7	1 0 200
11	6	1043	2	33 Persei a	3 14 20.63	59.71	1	4.240	+ 0.0484	+ 0.003
11	7	1056	5	Lacaille 1092	3 16 24.53	59.95	6	+ 0.639	+ 0.0368	+ 0.011
11		1070	5	Hydri	3 19 31.46	59.93	4	- 1.696	+ 0,1995	+ 0 040
11	- 1	••	5.6		3 25 2.39	60.00	4	+ 2.096	+ 0.0054	••
12	0	1109	6	Lacaille 1138	3 28 56.96	59.95	2	2°403	+ 0,0018	•••
12	L	1125	5	Lacaille 1161	3 32 4'33	59.93	10	2'152	+ 0'0024	+ 0,000
12	2	1126	6	11 Tauri	3 32 24.88	58.08	4	3.268	+ 0.0189	- 0'002
12	3	1147	4	17 Tauri	3 36 34.11	57.60	5	3'547	+ 0.0179	0,000
12	4	1150	5	Lacaille 1191	3 36 40.82	59*94	6	2.384	+ 0'0023	0°004
12	5	1159	5	Eridani v1	3 37 38 77	59.96	6	2.530	+ 0.0053	- 0.006
12	6	1158	6.5	25 Eridani	3 37 47			3.028	+ 0.0048	0.000
12		1161	5	23 Tauri	3 38 1'25	59.86	5	3.246	+ 0.0172	+ 0.003
12	1	1166	3	25 Tauri η	3 39 10.07	58.48	8	3.221	+ 0.0177	- 0,001
12		1176	4	27 Tauri	3 40 50.59	59.29	7	3.225	+ 0.0176	- 0.001
13	1	1197	4	Laçaille 1253	3 42 27.27	59'94	2	0.679	+ 0°0294	+ 0'043
13		••	8	Tagaille vous	3 43 2.54	60.93	1	3.282	+ 0.0148	• •
13		1199	5	Lacaille 1244	3 43 25.90	59'94	5	2.206	+ 0'0026	+ 0,000
13	- 1	1201	4	Eridani v ²	3 43 49'39 3 44 12'95	60.02	3	3.283 2.248	+ 0.0026	- 0.008
13	. 1	1217	4	33 Eridani τ ⁸	3 47 45 41	59°97 59°94	2	2.240	+ 0.0031	+ 0,000
1 3	3	/	7			J7 74		- 549	, 5032	, c oog
13	6	1220	5	Eridani v ³		29.90	1	2.585	+ 0.0026	- 0.003
13		1221	6	32 Tauri	3 48 36.04	57.84	1	+ 3.258	+ 0.0165	+ 0.006
13		1230	3	Hydriγ	3 49 27.07	29.09	47	- 1.034	+ 0.1080	+ 0.015
13	- 1	1234	3	34 Eridani γ'	3 51 29 95	59.57	13	+ 2.792	+ 0.0042	+ 0.005
14	0	1257	5.4	37 Tauri A1	3 56 25.42	59.72	9	+ 3.259	+ 0.0124	+ 0.004

		1		1	1					
		Year.	Jo .	Annual	Secular	Annual		No.	for reference	е.
	Mean N P.D.	12 4	Obs.	Precess.	Variation	Proper	-	,	,	
No.	1860, Jan. 1.	on o	of N.P	in N.P.D.	of Precess.in	Motion	9	ne.	Ws On.	wich
	Jun. 1.	Mean Ye Fraction o	No.	for 1860.		N.P.D.	Lacaille.	Brisbane.	Fallows or ohnson	Greenwich or Henderson,
		F	Z				Ľ	Br	H O	F. G.
	0 / "									
106	130 52 2.14	1800 59°94	6	- 14.61	+ 0'234	- 0'05	950	446	J 54	H 67
107	86 27 42.95	29.13	31	14.49	+0.322	+ 0.11		453	52	197
108	72 39 46.54	57.84	I	14.51	+ 0.353	+ 0.01		133]	204
109	162 26 57.52	59.85	1	14.06	+ 0.013	- 0.01	1001	482	J 58	
110	70 48 19.53	58.84	33	13.96	+ 0.363	+ 0.00		1		208
111	119 32 27.89	59.90	2	13.80	- - 0.272	- 0.62	1000	493	55·J 59	*
112	69 28 37.76	59.78	7	13.75	+ 0.371	+ 0.02		+93	22.7.28	211
113	169 31 8.98	59.36	3	13,39	- 0'244		1105			
114	69 21 37.03	58.73	I	13.35	+ 0.381	+ 0.03				218
115	133 36 27.11	59.93	7	13'27	+ 0.237	- 0.75	1060	530	J 62	
116	40 38 23.62	59.71	I	13.52	+ 0'470	+ 0.02		1		220
117	157 26 10:27	59'95	6	13.13	+ 0.046	+ 0.12	1092	540	••	
118	167 53 53.29	59.93	4	12.92	- 0.183	- 0.02	1131	554		1
119	133 6 57.26	60.00	4	12.22	+ 0'243					••
120	122 20 41.57	59.95	2	12'29	+ 0.585	+ 0.09	1138	569		
121	130 44 8.67	59.93	IO	12.07	+ 0.256	+ 0.04	1161	578	61.J 67	
122	65 7 35.83	58.21	5	12'04	+ 0.421	+ 0.03				249
123	66 19 47.78	58.36	10	11.75	+ 0.424	+ 0.04				258
124	122 23 16.05	59.94	6	11.74	+ 0.287	+ 0.02	1191	589	J 69	
125	127 45 26.49	59.96	6	11.67	+0269.	+ 0.00	1198	591	J 70	
126	00 44 0000			11.66	1 01060	+ 0.04				
127	90 44 23.98	59.86	1	11.65	+ 0.368 + 0.456	+ 0.04		• • •	0.	262
128	66 19 51.34	58.86	29	11.29	+ 0.428	+ 0.09			••	263 265
129	66 22 40.88	59.53	6	11'44	+ 0 430	+ 0.04			••	269
130	155 14 53.48	59.94	2	11.33	+ 0.084	- 0.03	1253		J 74	
		37.54		33	,	,	33		3 / 4	-
131	65 15 47.47	60.93	1	11.58	+ 0'437	••	•••	•••		1
132	158 3 0.18	59'94	5	11,59	+0'271	+ 0.04	1244	610	65.J 75	
133	65 15 17.74	60.92	3	11.53	+ 0.437	. "				
134	126 37 35.13	59'97	4	11'20	+ 0.574	+ 0.04	1248	612	J 76	
135	115 1 44.70	59'94	2	10 94	+0.319	+ 0.00	1270	618		494*
136	125 8 54.03	59.90	1	10.00	+ 0'284	+ 0.02	1275	620	J 78	
137	67 55 42.76	57.84	1	10.88	+ 0.437	+ 0.14				278
138	164 40 1.88	59.07	52	10 82	-0.133	- 0.13	1322	629	68.J 79	H 15
139	103 54 33.95	59.60	30	10.67	+ 0.349	+ 0.13			69.J 80	281
140	68 18 14.14	59'72	9	- 10'30	+ 0.446	+ 0.00				288
					1					

119. This is the nearest bright Star to the place given for B.A.C. 1088.

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	No.	No. in B,A.C.	Magnitude.	Star's Name.	Mean R.A. 1860, Jan. 1.	AMean Year and Fraction of Year.	No. of Obs. of R.A.	Annual Precess. in R.A. for 1860.	Secular Variation of Precess. in R.A.	Annual Proper Motion in R.A.
ı					h m s	-0				
ı	141	1259	5	Reticuli δ	3 56 32.12	29.96 1800	4	+ 0.935	+ 0.0108	- 0°004
ı	142	1270	5	Reticuli γ	3 58 52.56	59.96	3	0.849	+ 0.0215	- 0.012
ı	143	1271	5	Reticuli ı	3 59 2.43	59.92	2	0.942	+ 0.0191	+ 0.010
1	144	1284	5.6	37 Eridani	4 3 33			2.923	+ 0.0028	- 0°002
1	145	1290	4.2	38 Eridani o1	4 5 2.02	58.81	14	2.924	+ 0.0028	- 0'002
	146	1299	5	Horologiiδ	4 6 7.73	59'97	7	2,000	+ 0.0039	+ 0.013
ı	147	1303	5	39 Eridani A	4 7 44			2.851	+ 0.0021	
ı	148	1315	5	Horologii, α	4 9 21.77	59*98	5	1.982	+ 0.0041	- 0.001
ı	149	1326	5.6	52 Tauri φ	4 11 45.03	57*91	1	3.679	+ 0.0166	- 0.003
ı	150	1331	4	Doradûs γ	4 12 21.61	59'93	3	1.222	+ 0.0026	+ 0'004
ı	151	1333	3.4	41 Eridani υ ⁴	4 12 35.90	60.00	3	2,263	+ 0.0031	+ 0°002
ı	152	1336	3.4	Reticuli a	4 12 37.75	60.01	3	0.748	+ 0.0519	+ 0'005
ı	153	1341	6.2	59 Tauri χ ¹	4 14 4.09	57'02	2	3.638	+ 0.0122	+ 0.002
I	154	1348	5	Lacaille 1424	4 14 50.86	90,01	5	1,890	+ 0.0046	- 0.005
ı	155	1356	6	64 Tauri δ ²	4 16 1.62	56.41	1	3.442	+ 0,0110	+ 0.002
ı						,				
ı	156	1358	5	Reticuli θ	4 16 6.69	60.02	1	0.621	+ 0.0232	- 0.009
ı	157	1362	5.4	65 Tauri κ ¹	4 17 1.82	56.87	1	3.228	+ 0.0134	+ 0.004
ı	158	1367	5.4	69 Tauri v ¹	4 17 56.09	28.91	12	3.22	+ 0.0138	+ 0.004
ı	159	1372	4	Eridaniv ⁵	4 18 46.78	59.97	6	2'246	+ 0.0035	+ 0.002
ı	160	1383	5	Reticuli η	4 20 23.00	60.03	4	0.616	+ 0.0531	+ 0.013
ı	161	1376	4*3	74 Tauri ε	4 20 26.70	57.68	11	3'487	+0.0151	+ 0.002
ı	162	1413	5	Cœli δ	4 26 32.88	59.99	8	+ 1.834	+ 0.0020	- o.006
ı	163	1426	6	Mensæ δ	4 27 33'65	56.63	11	- 4.307	+ 0.2777	• •
ı	164	1420	1	87 Tauri α	4 27 53.41	58.75	26	+ 3.430	+ 0.0109	+ 0.004
ı	165	1422	4	50 Eridani v ⁶	4 28 1.11	60.06	3	2.360	+ 0.0033	0.002
1	166	1433	4.3	52 Eridani υ ⁷	4 30 6.60	ro:06	1	2.334	+ 0.0033	- 0,003
	167	1435	5.6	51 Eridani c	4 30 33	59.96		3'012	+ 0.0090	- 0 003
	168	1438	3	Doradûs α	4 30 58.26	60.02	3	+ 1.583	+ 0.0008	+ 0.011
	169	1454	5.6	Lacaille 1639	4 33 32.33	90.19	10	- 5.653	+ 0.3230	- 0.006
	170	1449	4.2	94 Tauri τ	4 33 50.74	59.89	17	+ 3*592	+ 0.0122	0.000
1	171	1458	4.2	Cœli a	4 36 3.12	60.01	6	1.943	+ 0'0042	- 0.016
	172	1464	5	Cœliβ	4 37 6.48	59'99	I	2.112	+ 0.0036	- 0.006
I	173	1473	5·6	Pictoris λ Piazzi IV. 202	4 41 11.99	60.04	1	2.030	+ 0.0039	+ 0.001
	174	1506	5.6	Lacaille 1626	4 45 43.09	60.00	3 6	+ 1.948	+ 0 0039	- 0'005
1	1/3	1500	, ,		+ +5 45 09	00 00		1 - 940)	0003
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	Mean N.P.D.	ear and of Year.	Obs. of P.D.	Annual Precess.	Secular Variation		nnual roper		No.	for reference.	
No.	1860.	Year on of 3	of O	in	of	M	otion	ei ei	le,	ws on.	rich
	Jan. I.	Mean Ye Fraction o	No.	N.P.D. for 1860.	Precess.in N.P.D.	N.	in P.D.	Lacaille,	Brisbane,	Fallows or Johnson	Greenwich or Henderson
		Fr	Z					La	B	4 5	G H
	0 / "										
141	151 47 47 29	1800 59°95	5	- 10.59	+ 0'121	+	0'02	1338	642	72.J 83	
142	152 33 3'40	59.96	3	10.11	+0.111	+	0.01	1357	653	J 84	
143	151 28 20 04	59.92	2	10,10	+0.124	_	0.03	1355	654	••	
144	97 17 33.68	59'93	1	9.76	+ 0.377	+	0.04		••	74	299
145	97 12 19:40	58.98	29	9.64	+ 0.378	-	0.07	••		75.J 85	302
146	132 21 39.25	59.97	7	9.26	+ 0.260	+	0.00	1382	668		
147	100 36 24.37	59.91	1	9.44	+ 0.371			••	••	J 86	• • •
148	132 38 28.92	59°97	6	9,31	+ 0°260	+	0.53	1398	674	77•J 88	••
149	62 59 15.63	57'91	1	9,13	+ 0.482	+	0'04	••	• •	••	310
150	141 50 29.24	59'95	4	9.08	+ 0.506	-	0.10	1417	682	J 90	
151	124 8 32'24	60.00	3	9*06	+ 0'299	+	0.01	1411	68 I	J 89	
152	152 49 29 94	60.01	3	9.06	+ 0.101	_	0.02	1423	683	80.] 91	H 24
153	64 42 18.09	57.02	2	8.94	+ 0.479	+	0.04				312
154	134 36 18:44	60.01	5	8.88	+0.251	_	0.03	1424	687		
155	72 53 1.86	56.71	1	8.79	+ 0.455	+	0'04				315
									6		
156	153 35 45.52	60.07	I	8.78	+ 0.089	+	0,02	1443	695	J 93	••
157	68 1 47.72	56.87	I	8.71	+ 0.471	+	0.02		:.		316
159	67 30 26.68	28.91	6	8.64	+ 0.474	_	0,03	1441	699	81.] 94	3*/
160	153 43 8.70	59°97 60°03	4	8.45	+ 0.082	_	0.12	1473	707	84.] 95	
	-33 43 0 /0	00 03	+	75	, , , ,		/	.,,	' '	.,,,,,	
161	71 8 0.43	28.c3	19	8.44	+ 0.465	+	0°03	••	••	••	320
162	135 15 22.29	59.99	8	7'95	+ 0.549	+	0°04	1512	727	85.J 96	••
163	170 32 15.09	57.12	15	7.87	→ o·574	-	0.11	1579	743	8-	***
164	73 46 32.21	28.61	103	7.85	+ 0.464	+	0.12		730	87	327 328
165	120 3 7.05	60.06	3	7.84	+ 0.320	+	0'23	1513	732	••	323
166	120 51 5.98	59.96	I	- 7.67	+0.318	+	0.03	1529	740	88.J 99	330
167	92 45 24.69	59.95	1	7.64	+ 0.409				••	••	
168	145 20 8:47	60.02	3	7.60	+ 0.176	+	0.04	1539	744	89.J 100	H 41
169	171 53 32.03	59.91	13	7.39	- o·764	-	0'17	1639	764	••	••
170	67 18 54.81	59.99	15	7.36	+ 0.491	+	0.03	••	••	••	336
171	132 7 58.13	60'05	6	7.18	+ 0.268	+	0,11	1556	757	90.J 103	
172	127 25 11.66	59.99	ı	7.10	+ 0'292		0.50	1559	762	J 104	
173	140 44 45.66	60.04	1	6.93	+ 0.513		0.02	1585	772		
174	129 36 39.67	60.07	3	6.76	+ 0.585	_	0°04	1594	779		
175	131 33 50.62	60.06	6	- 6.39	+0.523	-	0.10	1626	799		
	1										

ī			1		1	and ear.	of			
۱			e.		Mean R.A.	Year a	Obs. A.	Annual Precess.	Secular Variation	Annual Proper
١	No.	No. in B.A.C.	Magnitude.	Star's Name.	1860,	Mean Ye	of C	in R.A. for	of Precess. in	Motion
1			Aagr		Jan. I.	fear	No.	1860.	R.A.	R.A.
ı						- H	_			
ı					h m s	1800		8	8	В
ı	176	1520	3	3 Aurigæ 1	4 47 52.80	59.02	11	+ 3.896	+ 0.0146	- 0.003
ı	177	1519	6	Piazzi IV. 239	4 47 38	••		3.077	+ 0.0028	••
ı	178	1528	6.2	98 Tauri k	4 49 35.46	28.81	2	3.662	+ 0.0115	+ 0.001
١	179	1552	5.4	65 Eridani ψ	4 54 39	••	••	2.906	+ 0.0042	+ 0.005
ı	180	1551	5	102 Tauri t	4 54 43.92	59.02	5	3.575	+ 0.0002	+ 0.004
ı	181	1559	5	Lacaille 1686	4 56 28.27	60.00	6	+ 2.432	+ 0.0033	+ 0.002
ı	182	1587	4.2	Lacaille 1752	4 59 14.60	59.07	10	- 1.796	+ 0.0702	••
ı	183	1573	5	Cœli γ ¹	4 59 22'33	60.00	4	+ 2.146	+ 0.0034	+ 0.002
ı	184	1574	5.6	Cœli γ ²	4 59 26.35	60.06	4	2.138	+ 0.0034	0.000
ı	185	1570	6.2	106 Tauri 1	4 59 31.46	56.05	1	3.248	+ 0.0084	- 0.002
ı	186	1575	4*3	2 Leporis ε	4 59 32.13	57'97	11	2.536	+ 0.0033	0,000
ı	187	1572	6	103 Tauri	4 59 34.86	58.81	2	3.649	+ 0.0097	+ 0.004
ı	188	1579	6	66 Eridani	4 59 50	••		2.963	+ 0.0046	+ 0.000
ı	189	1623	1	19 Orionis β	5 7 48.63	58.42	42	2.880	+ 0.0040	- 0.001
ı	190	1637	6	109 Tauri n	5 10 52.17	59.04	2	3.299	+ 0.0048	+ 0.001
ı	191	1650	5	Columbæ o	5 12 26.29	60.02	3	+ 2.155	+ 0.0032	+ 0.010
ł	192	1659	5	Doradûs θ	5 13 52.22	35.96	6	- 0.067	+ 0.0207	
ı	193	1660	5.6	22 Orionis o	5 14 37.10	58.98	1	+ 3.060	+ 0.0043	
1	194	1665	5.6	23 Orionis m	5 15 28	••		3.120	+ 0.0042	+ 0.001
ı	195	1672	5	Pictoris ζ	5 15 56.27	60.04	3	1.465	+ 0.0022	+ 0.003
ı	196	1681	2	112 Tauriβ	5 17 26.64	58.41	17	3.785	+ 0.0083	+ 0.003
ı	197	1704	5	Pictoris κ	5 19 47.46	60.06	4	1,100	+ 0.0045	- 0.004
ı	198	1712	56	Pictoris θ	5 21 35.88	40'14	2	1.328	+ 0.0026	
ı	199	1723	5	25 Aurigæ χ	5 23 37.02	58.60	6	3,900	+ 0.0081	+ 0.003
ı	200	1730	2	34 Orionisδ	5 24 51.31	57.64	15	3.063	+ 0.0038	+ 0.001
	201	1739	4	Columbæ ε	5 26 14.63	60.03	5	2.126	+ 0.0031	+ 0.002
1	202	1741	3	11 Leporis a	5 26 33.36	60.02	I	2.644	+ 0.0059	+ 0.001
	203	1765	2	46 Orionis ε	5 29 6.55	56.62	3	3'042	+ 0.0036	- 0.002
	204	1767	3.4	123 Tauri Z		59.42	4	3.285	+ 0.0022	0.000
	205	1791	4	Doradûsβ	5 32 24.82	60.04	5	0.213	+ 0,0001	- 0.003
	206	1802	2	Columbæ a	5 34 34.81	57.78	2.1	+ 2.171	+ 0.0028	+ 0.008
	207	1819	5.6	Mensæ γ	5 37 27.00	60.07	1	- 2.445	+ 0.0372	
	208	1841	5.6	Columbæ µ	5 40 47'75	60.07	5	+ 2.228	+ 0.0022	- 0.002
	209	1855	5	Lacaille 2003		60.07	1	1.660	+ 0.0033	- 0.001
	210	1861	4.2	Pictoris β	5 43 58.19	60.03	1	+ 1.418	+ 0.0038	
	_		-		1	1	1		1	1

192. The R.A. has been brought up with precession alone from 1835. 198. The R.A. has been brought up with precession alone from 1840.

176 5 177 8 178 6 179 9 180 6 181 11 182 16 183 12 184 12 185 6 186 11	9 45 47°07 5 10 10°23 7 22 56°43 8 36 49°56 6 28 34°58	Wean Year and Praction of Year and Pear and Praction of Year and Practical Open Act and Practical Ope	'Sq O jo 'ON	Precess, in N.P.D. for 1860. - 6'21 6'23 6'07 5'64 5'64 5'49 5'26 5'24 5'24 5'24 5'23	Variation of precess.in N.P.D. + 0.543 + 0.429 + 0.512 + 0.409 + 0.503 + 0.343 - 0.251 + 0.304 + 0.303	M	roper (otion in .P.D	Facaille 1752	Brisbane 846 872	Fallows Johnson.	Greenwich Henderson. Henderson.
176 5 177 8 178 6 179 9 180 6 181 11 182 16 183 12 184 12 185 6 186 11	7 3 34.43 9 45 47.07 5 10 10.23 7 22 56.43 8 36 49.56 6 28 34.58 5 9 0.51 5 40 36.71 5 54 7.18 9 46 9.87 2 33 42.22	58.95 60.03 58.81 60.00 58.20 60.00 59.07 60.00 60.06 56.05	1 2 4 5 6 17 4 4	6·23 6·07 5·64 5·64 5·49 5·26 5·24	+ 0.429 + 0.512 + 0.409 + 0.503 + 0.343 - 0.251 + 0.304	+ - + + -	0.08 0.10 0.09 0.01	1686 1752	846 872	 1 108 	625* 364 365
177 8 6 179 9 180 6 181 11 182 16 183 12 184 12 185 6 186 11	9 45 47'07 5 10 10'23 7 22 56'43 8 36 49'56 6 28 34'58 5 9 0'51 5 40 36'71 5 54 7'18 9 46 9'87 2 33 42'22	60°03 58'81 60°00 58'20 60°00 59'07 60°00 60°06 56'05	1 2 4 5 6 17 4 4	6·23 6·07 5·64 5·64 5·49 5·26 5·24	+ 0.429 + 0.512 + 0.409 + 0.503 + 0.343 - 0.251 + 0.304	+ - + + -	0.08 0.10 0.09 0.01	1686 1752	846 872	 1 108 	625* 364 365
178 6 179 9 180 6 181 11 182 16 183 12 184 12 185 6 186 11	5 10 10·23 7 22 56·43 8 36 49·56 6 28 34·58 5 9 0·51 5 40 36·71 5 54 7·18 9 46 9·87	58.81 60.00 58.20 60.00 59.07 60.00 60.06 56.05	2 4 5 6 17 4 4	6.07 5.64 5.64 5.49 5.26 5.24	+ 0.512 + 0.409 + 0.503 + 0.343 - 0.251 + 0.304	-++-	0.08 0.10 0.09 0.01 0.09	1686 1752	846 872	 J 108	625* 364 365
179 9 180 6 181 11 182 16 183 12 184 12 185 6	7 22 56.43 8 36 49.56 6 28 34.58 5 9 0.51 5 40 36.71 5 54 7.18 9 46 9.87	60°00 58°20 60°00 59°07 60°00 60°06 56°05	4 5 6 17 4 4	5.64 5.64 5.49 5.26 5.24	+ 0'409 + 0'503 + 0'343 - 0'251 + 0'304	-++-	0.08 0.10 0.09 0.01	1686 1752	846 872	J 108	364 365
180 6 181 11 182 16 183 12 184 12 185 6 186 11	8 36 49'56 6 28 34'58 5 9 0'51 5 40 36'71 5 54 7'18 9 46 9'87	58·20 60·00 59·07 60·06 56·05	5 6 17 4 4	5.64 5.49 5.26 5.24 5.24	+ 0.343 + 0.343 + 0.304	+	0.08	1686 1752	846 872		365
181 11 182 16 183 12 184 12 185 6	6 28 34.58 5 9 0.51 5 40 36.71 5 54 7.18 9 46 9.87 2 33 42.22	60.00 59.07 60.00 60.06 56.05	6 17 4 4	5°49 5°26 5°24 5°24	+ 0°343 - 0°251 + 0°304	+	0.08	1686 1752	846 872		
182 16 183 12 184 12 185 6	5 9 0.51 5 40 36.71 5 54 7.18 9 46 9.87 2 33 42.22	59°07 60°06 56°05	17 4 4	5°26 5°24 5°24	- 0°304	-	0.08	1752	872		
183 12 184 12 185 6	5 40 36·71 5 54 7·18 9 46 9·87 2 33 42·22	60.00 60.00	4	5°24 5°24	+ 0.304	+		1			
184 12 185 6 186 11	5 54 7°18 9 46 9°87 2 33 42°22	60°06	4	5.54		1+	0.00			-	1
185 6	9 46 9·87 2 33 42·22	56.05			1-0'202		-	1712	858	J 110	
186 11	2 33 42.22		I	5.2.2		-	0.10	1713	860	••	
1		58.82	1	3 ~3	+ 0.205	+	0.04				369
187 6	5 55 24.63	_	26	5'23	+ 0.359	+	0.02			J 109	370
		58.81	2	5.53	+0.216	_	0.02				372
188 9	£ 50 46·36	59.95	1	5.50	+ 0'420	+	0.04				373
189 9	8 21 59.13	57.88	109	4.23	+ 0.411	+	0.03		893	99.J 116	383
190 6	8 3 7.25	59.04	2	4.52	+ 0.212	-	0.03				386
191 12		60.05	3	4.13	+ 0.310	+	0,31	1793	914	••	••
	7 20 34.68	60.03	1	4.01	- 0.008	-	0.04	1828	922	••	••
	31 26.85	58.98	1	3.92	+ 0'439	ļ.,	••		•••	••	••
	35 37.60	59.95	I	3.87	+ 0.453	+	0.02		•••		391
195 140	45 29.20	60.02	5	3.83	+ 0.515	_	0'14	1825	930	••	•••
196 6	30 53.49	58.51	35	3.40	+ 0.244	+	0'20		932		395
	5 16 1.24	60.06	4	3.20	+ 0.160	_	0.00	1853	956		
198 14:	26 23.60	60.06	I	3*34	+0.192	+	0.04	1863	962		
199 5	7 54 56.73	58.34	5	3.12	+ 0.263	-	0.02				407
200 90	24 22.00	57.61	35	3.06	+ 0.443	+	0.04		968	105.J 122	409
								-00.			
	34 31.74	60.03	5	2.94	+ 0.308	+	0.02	1883	970	J 124	••
	7 55 31.23	58.94	4	2.92	+ 0.383	+	0,00	•••	**	107.J 125	413
203 9	17 40.75	56.26	5	2.69	+ 0.441	+	0.01	•••	••	110.J 128	423
	٠ .	60.04	9	2.68	+ 0.219	+	0.02	1948	1003	109	425
203 15	34 54.54	60.03	7	2.41	+ 0.072	_	0.06	1940	1003	J 131	••
206 12.	9 3.27	57'97	39	2.22	+ 0.316		0.00	1938	1010	114.J 133	429
207 16	5 26 17.00	59*23	7	1.97	- 0°354	_	0.31	2027	1032		1.
208 122	21 43.60	60.07	5	1.68	+ 0.325	+	0.04	1982	1035	116.J 136	
209 13	5 39 1.52	60.07	I	1.25	+ 0.242	+	0.00	2003	1043		
210 14	7 8-30	60.07	3	- 1.40	+ 0.207	-	0.06	2021	1051		

		_							
No.	No. in B,A,C.	Magnitude.	Star's Name.	Mean R.A. 1860, Jan. 1.	Mean Year and Fraction of Year.	No. of Obs. of R.A.	Annual Precess, in R.A. for 1860.	Secular Variation of Precess. in R.A.	Annual Proper Motion in R,A.
				h m a	-0				
211	1870	5.6	Mensæ	5 44 11.88	73.04	3	- 3.721	+ 0.0446	·
212	1868	4.2	Doradûsδ	5 44 31.57	60.05	2	+ 0.102	+ 0.0085	- 0.003
213	1863	5	136 Tauri	5 44 31.68	57.95	5	3.769	+ 0'0040	- 0.001
214	1878	3	Columbæ β	5 46 1.51	60.03	5	2,100	+ 0.0026	+ 0.002
215	1876	5.4	54 Orionis χ ¹	5 46 5.66	60.09	1	3.264	+ 0.0034	- 0,016
216	1883	Var.	58 Orionis α	5 47 35.55	57.25	28	3.245	+ 0.0028	+ 0.001
217	1890	5	Lacaille 2052	5 47 43 23	59.99	I	1.324	+ 0.0034	
218	1891	5	Columbæ λ	5 48 1'99	60.03	1	+ 2.177	+ 0.0026	0,000
219	1898	5.6	Lacaille 2138	5 48 23.27	73.04	3	- 4.976	+ 0.0450	
220	1896	5.6	139 Tauri	5 49 18.45	58.44	2	+ 3.722	+ 0.0035	- 0.001
									P*
221	1905	5	Doradûs ε	5 50 2.47	60.07	I	- 0.062	+ 0.0060	- 0.003
222	1922	4	Columbæ γ	5 52 34.37	60.06	4	+ 2.126	+ 0.0022	- 0.002
223	1933	5	Lacaille 2099	5 54 51'72	60.02	3	1.833	+ 0.0026	+ 0,001
224	1958	5.4	67 Orionis ν	5 59 34.68	57.81	8	3.422	+ 0.0018	+ 0.001
225	1964	5.6	Lacaille 2137	6 0 26.68	60.08	9	1.433	+ 0.005	- 0,000
226	1971	6	3 Geminorum	6 1 13.85	60.98	1	3.643	+ 0.0012	+ 0.006
227	1982	5	Columbæ θ	6 2 43.60	60.07	6	2.056	+ 0.0024	- 0.002
228	1981	6	5 Geminorum	6 2 57.10	59.12	2	3.680	+ 0.0015	0,000
229	2002	3.4	7 Geminorum η	6 6 25.58	59.60	7	3.627	+ 0.0008	- 0.002
230	2001	5'4	44 Aurigæ κ	6 6 27.47	58.34	3	3.830	+ 0.0002	- 0.002
231	2013	5.6	Lacaille 2201	6 7 34.26	60.08	9	1,168	+ 0.0020	- 0.006
232	2034	4.2	Columbæ κ	6 11 34.32	60.08	5	2.134	+ 0'0021	+ 0,001
233	2047	3	13 Geminorumμ 1 Canis Majoris ζ	6 14 29.42	59°26	11	3.627	- 0.0002	+ 0.002
234	2051	3°2	Mensæ	6 14 56.39	56.51	10	+ 2.302	+ 0.0010	- 0.003 - 0.003
235	2005	Ů	Wichse	6 16 37.44	30 21	"	-15 024	- 0.3302	- 0 003
236	2082	6.2	48 Aurigæ	6 19 34.07	58.60	4	+ 3.859	-0.0018	+ 0.002
237	2090	5.4	18 Geminorum v	6 20 39.08	60.09	1	3.262	o*ooo8	- 0.002
238	2096	1	Argûs α	6 20 50.54	59.81	19	1.329	+ 0,0000	- 0°002
239	2109	4.2	Lacaille 2295	6 22 58.80	60.09	6	+ 2.225	+ 0,0018	+ 0.001
240	2119	5.6	Doradûs π ¹	6 23 57	••		- o·563	— o·oo96	••
241	2137	5	Puppis Z	6 26 22.48	60.08	3	+ 1.481	+ 0.0010	- 0,010
242	2145	5.6	Doradûsπ ²	6 26 39 99	56.13	5	- 0.201	- 0.0104	
243	2163	2.3	24 Geminorum y	6 29 37.41	57.89	9	+ 3.465	- 0.0014	+ 0.001
244	2170	6	54 Aurigæ	6 30 43.50	57.02	I	3.788	- 0.0033	+ 0.001
245	2176	5	Lacaille 2383	6 31 53.48	60.07	6	+ 1'324	+ 0.0005	0,000
	,)								

^{219.} The large proper Motion of this Star is confirmed by the result from three Observations on, 1873,

January 8, 15, and 22. The mean place for 1873, January 8, given by these Observations is,

R.A. 5 47 18.62. N.P.D. 170 33 41.08.

		Mean Year and Fraction of Year.	Obs. of .D.	Annual	Secular	Annual	1	No.	for reference	ı.*
No.	Mean N.P.D. 1860.	Year 1 of	L 124	Precess.	Variation of	Proper Motion		1 .:)	ich o
	Jan. 1.	ction	of N.I	N.P.D. for 1860.	Precess.in N.P.D	in N.P.D.	Lacaille,	Brisbane.	Fallows or Johnson	Greenwich or Henderson
		Me	No.	100 1800.	N.F.D	N.I.D.	Lac	Bris	Fa lol	Gre
	0 , 4			,	,	,				
211	168 53 23.01	1800	5	- 1.37	- 0.240	- 0.08	2097	1068		
212	155 47 17:33	60.02	2	1.35	+0.016	+ 0.03	2045	1060	118.J 139	
213	62 25 29:37	57.55	6	1.35	+ 0.249	+ 0.04				439
214	125 49 23.46	60.03	5	1.55	+ 0.308	- 0.58	2029	1063	119.J 140	441
215	69 45 11.42	60.09	1	1.55	+0.219	+ 0.10			••	442
216	82 37 21.30	57.08	90	1.09	+ 0.473	0.00		1064	120	444
217	142 8 31.81	59*99	1	1.07	+ 0.108	+ 0.02	2052	1074		
218	123 50 5.11	60.02	I	1.02	+ 0.318	- 0.09	2044	1073		
219	170 34 7.97	59.07	4	1.03	- 0.724	- 1.10	2138	1096		
220	64 4 2.79	58.07	2.	0.94	+ 0.543	+ 0.01			••	446
221	156 56 9.42	60.07	1	0.87	- 0.000	- 0.06	2093	1091	J 142	
222	125 18 1.78	60.06	4	0.65	+ 0.310	+ 0.01	2084	1097	121.] 143	
223	132 49 29.03	60.05	3	0.45	+ 0.268	+ 0'02	2099	1107	J 144	
224	75 13 6.68	58.47	14	- 0.04	+ 0.200	+ 0.02				457
225	135 2 15.84	60.07	11	+ 0.04	+ 0.253	- 0'22	2137	1131		
226	66 52 5.36	60.08	6	0.11	+ 0.231	+ 0.02		1127	1	462
227	127 14 7'50	60.07	2	0'24	+ 0.300	+ 0.01 - 0.01	2153	1145	J 146	465
229	65 33 10.05	59.12	11	0.26	+ 0.537	+ 0'02		1166		467
230	60'27 16'29	58 05	10	0.26	+ 0.228	+ 0.50				468
-30	00 2/ 10 29	50 05		0 30	1 0 330	1 029		1		400
231	144 56 18.91	60.08	9	0.66	+ 0.140	+ 0.03	2201	1177		••
232	125 5 46.13	60.08	5	1,01	+ 0.310	+ 0.03	2213	1191	J 148	473
233	67 25 7.06	59.46	22	1°27	+ 0.22	+ 0.14		1202	••	477
234	120 0 13,31	60.06	10	1.31	+ 0.334	- 0'02	2229	1207	126.J 149	478
235	175 55 12.70	56.51	6	1.45	- 2.273	+ 0.04	2512	1269	• •	••
236	59 25 28.06	58-59	4	1.71	+ 0.260	+ 0.04				486
237	69 42 10.18	60.00	2	1.81	+ 0.214	+ 0.01		1235		488
238	142 37 13'04	59.41	24	1.82	+ 0.192	- 0.03	2291	1241	128.J 152	H 46
239	122 29 39.77	60.09	6	2.01	+ 0.322	- 0.08	2295	1247	J 153	491
240	159 54 20.73	59.07	6	2 09	- 0.085	- 0.08	2340	1259	••	••
241	140 8 30.67	60.08	2	2122	L 0'274	- 0.03	2222	1267		
241	159 36 33.72		3 5	2.30	+ 0.514		2333	1275		••
242	73 29 6.02	56.13	17	2.33	+ 0.200	- 0°43 + 0°04	2308	1280	130	501
244	61 37 5.27	57.02	17	2.29	+ 0.546	+ 0.04				507
245	142 51 45.47	60.06	7	+ 2.78	+ 0.100		2383	1302		307
	J. 73 47		1 '	, 7,3	,,-		1 3-3			

-					,				
		100			and year,	Jo			-
		1 05		Mean R.A.		Obs.	Annual Precess.	Secular Variation	Annual
No	No. in B.A.C	tud	Star's Name.	1860,	year of y	of C R.A	117	of	Proper Motion
	B.A.C	Magnitude.		Jan. I.	Mean		R.A. for 1860.	Precess. in	in
		M			Frac	No.	1000.	R.A.	R.A.
-						-			
				h m s	1800				s
240	2188	3	Argûs ν	6 33 28.60	60.02	10	+ 1.835	+ 0.0014	- 0.004
247	2194	3.4	27 Geminorum ε	6 35 18.91	56.43	2	3.696	- 0.0034	0.000
248	2197	6	28 Geminorum	6 35 52.95	57.02	1	3.807	- 0.0043	+ 0.003
249	2213	r	9 Canis Majoris. a	6 38 58.66	58.29	71	2.681	+ 0.0010	- 0.035
250	2231	5	Puppisx	6 42 34.08	60.07	5	2.054	+ 0.0012	- 0.001
251	2233	6	36 Geminorum d	6 43 9.38	57'17	1	3.601	- 0.0038	+ 0.007
252	1	4	13 Canis Majoris &	6 44 36.74	60.08	6	2*241	+ 0.0012	
253		5	Lacaille 2486	6 45 46.81	60.11	3	2,181	+0.0014	- 0.001
		4			60,15	I	0.631	- 0.0063	
254		5	Pictoris a	6 46 45.32	38.51	5	1.302	- 0.0013	- 0.002
255	2259)	Carinæ B	0 40 40 70	30 21	3	1 305	- 0.0012	••
256	2273	5	18 Canis Majoris µ	6 49 (41.73)			+ 2.750	+ 0.0006	0,000
257	2290	5.6	Mensæ ζ	6 51 37.88	56.11	5	- 4.852	- 0.1662	
258	2293	2'1	21 Canis Majoris &	6 53 7.39	59.39	28	+ 2.357	+ 0.0013	0,000
259	2295	5	Puppis t	6 53 17.59	60.13	4	2.197	+ 0.0014	- 0'004
260	1	4	43 Geminorum ζ	6 55 (48.27)			3.264	- 0.0020	-, 0.001
				. , ,					
261	2309	5.4	22 Canis Majoris	6 56 8 52	60°02	3	2,390	+ 0.0013	- 0.003
262	2319	4.2	23 Canis Majoris y	6 57 25.50	58.26	6	2.712	+ 0.0002	+0.002
263	2327	5	Puppis C	6 59 36.47	60.07	5	1.903	+ 0.0008	- 0.004
264	2340	5'4	46 Geminorum 7	7 2 13.61	60.02	I	3.830	- 0.0088	- 0.003
265	2345	2	25 Canis Majoris δ	7- 2 41.90	60.02	2	2.439	+0.0011	0,000
	1	6			C	6			
266	2343	6	47 Geminorum	7 2 41.94	60.12		3.230	- 0.0022	~ 0.003
267	2350	1 }	48 Geminorum	7 3 55.87	60.99	2	3.654	- 0.0069	+ 0.004
268	2355	5	Puppis A	7 4 8.93	60.02	1	2.012	+ 0.0011	- 0.008
269	2374	6	53 Geminorum	7 7 12.22	59.12	1	3.757	'	+ 0.005
270	2380	5	Puppis E	7 7 37 53	60°04	2	1.989	+ 0,0010	- 0.010
271	2410	3'4	55 Geminorum δ	7 11 45'53	59.21	18	3.292	- 0'0072	0.000
272	2414	3	Argûsπ	7 12 11.01	60.13	2		+ 0.0011	- 0°004
273	2427	5	Puppis F	7 13 46.89	60.04			+ 0,0010	- 0.018
274	2447	5	Volantisδ	7 16 23.39	56.82	6	- 0.006	- 0.0249	- 0'004
275	2442	4	60 Geminorum	7 17 1.62	57.80		+ 3.745		- 0.008
-/3	-11-			, .,	3/00	1	3 / 43	7 0.00	0 000
276	2458	2.4	31 Canis Majoris n	7 18 33'46	60.16	5	2.373	+ 0.0011	- 0.004
277	2467	5	64 Geminorum b1	7 20 36.72	58.97	1	3.751	- 0.0106	+ 0.005
278	2482	4	Argûs σ	7 24 47.68	60'24	1	1.909	+ 0.0002	+ 0.002
279	2484	5	Lacaille 2834	7 25 16.15	60'20	1	2.333	+ 0.0012	
280	2485	2.1	66 Geminorum., a2	7 25 39.66	60.19	2 -	+ 3.856	- 0.0135 -	- 0.013
	1 ,)		1			1	1	

^{255.} The R.A. has been brought up with Precession alone.

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١			and Year	Jo	Annual	Secular	A	nual		No.	for reference	
ı		Mean N P.D.	of	f Obs. P.D.	Precess.	Variation		per				
l	No.	1860,	Mean Ye	of N.P.	in N.P.D.	of Precess.in	Mo		le.	ne.	ows son.	Greenwich or Henderson.
١		Jan. 1.	lear acti	No.	for 1860.	N.P.D.	N.F		Lacaille.	Brisbane.	Fallows or Johnson.	or
L			FE	Z					La	Br		ਤੇ ਜ਼ੌ
ľ												
L	246	133 4 30'20	1800	10	+ 2.02	+ 0.264	+ 0	0.01	2386	1310	132.J 156	Н 60
	247	64 44 3.01	57.60	11	3.08	+ 0.231		0.05		1316	132.) 150	511
1	248	60 53 33.29	57.02	1	3.13	+ 0.242		0.03				512
	249	106 31 36.24	58.53	68	3'40	+ 0.384		1'24		1337	133.J 157	517
	250	127 46 37.81	60.07	5	3.40	+ 0.595	1	0.06	2455	1359	-33.9 - 37	
L	251			I	3.76	+ 0.214		0'02				
	252	68 4 40·30	57°17	6	3.88	+ 0.319	,	0.03	2474		135.] 158	521
1	253	124 12 14.33	90.11	3	3.08	+ 0,310		0.04	2474 2486	1371		523
ŧ	254	151 47 30.16	60.15	1	4.06	+ 0.088		0.18	2525	1389	J 161	
1	255	143 27 36.76	60.10	1	4.07	+ 0'184		0.03	2511	1388		
ı	30											
١	256	103 21 22.83	60.01	1	4.35	+ 0.300	+ 1	0.01				531
	257	170 39 38.00	26.11	5	4.48	- 0.692	-	0'12	2648	1435	••	•••
	258	118 47 2.17	28.38	70	4.61	+ 0.333	+	0.02	2550	1419	138.J 164	534
	259	123 55 26.91	60.15	4	4.62	+0.310	1	0.02	2554	1421	••	
١	260	69 13 41.22	56.13	3	4.84	+ 0.203	+	0.01		1431	••	537
ı	261	117 44 13'24	60.02	3	4.86	+ 0.336	+	0.01	2581	1437	139.] 165	538
ı	262	105 25 45'11	58.87	9	4.97	+ 0.381	1.	0.01	Ĭ		140.] 167	542
ı	263	132 7 56.10	60.08	4	5.16	+ 0 2 6 6		0.11	2607	1462		
١	264	59 31 43.49	60.02	1	5.38	+ 0.236	+	0.02				549
I	265	116 10 24.22	60.02	2	5'42	+ 0.340	-	0,01	2633	1478	143.J 168	550
١				١.								
١	266	62 55 1.72	60.12	6	5'42	+ 0.221		0.03			••	898*
١	267 268	65 38 27.88	60.99	2	5.2	+ 0.210	1.	0.01		06	 I(-	552
١	269	61 51 49.00	60.02	I	5.80	+ 0.280	+	0.00	2649	1486	J 169	556
1	270	130 15 50.87	59.12	2	5.83	+ 0.275	+	0.02	2672	1504	••	
١		130 13 30 0/	00 04	*	3 03	1 02/5	1	005	20/2	12304	**	
1	271	67 45 48.89	59.40	31	6.18	+ 0.496	+	0.05				566
1	272	.126 50 54.18	60,13	2	6.51	+ 0.291	+	0.03	2720	1536	145.J 175	567
	273	128 57 22.97	60.04	2	6.32	+ 0.580		0.00	2739	1552		••
	274	157 42 2.97		6	6.60	- 0.004		0.00	2809	1586	J 176	••
	275	61 55 39.05	57.83	12	6.62	+ 0.213	+	0.09		••	11.11	570
	276	119 1 56.61	60.16	5	6.74	+ 0.323	_	0.01	2777	1591	146.] 177	R 791
	277	61 35 49.00)	6.91	+ 0.211	+	0.01				574
	278	133 1 14.50		1	7'25			0.00	2837	1631	147.] 178	3/4
	279	120 40 15'04		1	7'29			0.04	2834	1634		
1	280	57 48 30.64		7			1	0.08	1	1630		580
			1		1	1	1		li .	1	1	1

No.	No. in B.A.C.	Magnitude.	Star's Name.	Mean R.A. 1860, Jan. 1.	on of Year.	of Obs. of R.A.	Annual Precess. in R.A. for	Secular Variation of Precess, in	Annual Proper Motion in
		Mag		J	Mean Y Fraction	No.	1860.	R.A.	R.A.
				h m s	1800		8	s	s
281	2493	4.2	69 Geminorum v	7 27 17.50	59.42	10	+ 3.710	- 0.0100	- 0,001
282	2522	1	10 Canis Minoris a	7 31 58.31	59.61	30	3.195	- 0.0041	- 0.048
283	2551	4.3	77 Geminorum K	7 35 59.50	59.85	8	3.635	- 0.0108	- 0.002
284	2555	I'2	78 Geminorum β	7 36 44.62	59.18	3	3.730	- 0.0154	- 0.049
285	2562	5	3 Puppis	7 38 11.35	60,16	2	2.408	+ 0,0010	- 0.005
286	2565	6	B.F. 1089	7 38 41.58	57.21	3	2*522	+ 0.0008	
287	2569	7	2 Puppis	7 39 2.69	57.24	1	2.761	- 0.0004	+ 0.005
288	2580	5	Puppis c	7 40 16.05	60'16	3	2.138	+ 0.0011	0.000
289	2594	5	Puppis o	7 42 16.08	60.51	2	2.494	+ 0.0000	- 0.004
290	2599	6.7	Lacaille 2990	7 43 8.74	60.14	1	2.252	+ 0.0008	••
291	2602	4.3	7 Navis 5	7 43 24.28	60'27	2	2.23	+ 0.0000	+ 0.001
292	2617	5	83 Geminorum ø	7 44 55.50	57.85	6	3.686	- 0.0130	- 0.004
293	2620	4.2	Puppis P	7 44 58.38	60.18	2	1.829	0,0000	- 0.003
294	2622	6	9 Puppis	7 45 17.29	60.09	1	2.784	- 0.0006	- 0.003
295	2624	6	10 Puppis	7 45 52.46	57.21	3	2.763	- 0.0004	+ 0.005
296	2629	5	Lacaille 3035	7 47 1.97	60.51	-3	2.256	+ 0.0015	- 0.019
297	2612	5	Lacaille 3069	7 49 8			1.693	- 0,0011	• • •
298	2644	4	Puppis R	7 49 11'40	60.12	3	1.765	- 0.0002	- 0'002
299	2655	6	Lacaille 3081	7 52 5.33	60.12	3	2.392	+ 0.0013	+0'017
300	2660	6.2	27 Monocerotis	7 52 44.52	57*23	1	3'004	- 0°0027	- 0.002
301	2665	4	Argûs χ	7 53 13.23	60°25	2	1.232	- 0.0029	+ 0.001
302	2666	5	B.F. 1129	7 53 35.73	58.70	6	2.690	+ 0.0001	0.000
303	2670	5	Lacaille 3105	7 54 12.91	40'11	2	1.424	- 0.0000	••
304	2672	5	6 Cancri	7 54 54.80	58.73	2	3.400	- 0'0147	- 0.002
305	2710	2.3	Argûs ζ	7 58 39.85	60'23	3	-2'111	+ 0.0013	- 0.004
306		7.8	Lalande 15898	8 1 14.94	56.95	1	3.634	- 0.0140	••
307	2725	5.6	29 Monocerotis	8 1 33.21	57*24	2	3.050	- 0.0031	
308	2728	3	15 Navis	8 1 34.92	59.68	11	2.261	+ 0.0000	- 0.002
309	2730	6	14 Cancriψ ²	8 2 0.03	28.19	2	3.632	- 0.0141	- o.ooe
310	2736	5	16 Puppis	8 2 46.86	-57'21	3	2.680	+ 0'0002	+ 0.003
311	2755	2	Argûs γ	8 5 13.14	60'21	3	1.850	+ 0.0001	+ 0'002
312	2769	5	20 Puppis	8 6 53.91	59*21	3	2.759	- 0.0003	+ 0.003
313	2773	5	Volantis 8	8 7 27.60	60.11	1	0.535	- 0.0365	- 0.012
314	2774	5	Puppis r	8 8 12.40	60,11	2	2.264	+ 0.0014	- 0.004
315	2778	4.3	17 Cancri β	8 8 55.55	57'24	2	+ 3.264	- 0.0071	- 0°004

303. The R.A. has been brought up with Precession alone.

		- i	of	1	1	-		0			
		r and Year.	Obs. o	Annual	Secular		nnual		No.	for reference	
No.	Mean N.P.D. 1860,	£ 5	of O	Precess.	Variation of	P	roper lotion		1 .:	, d	ich en
	Jan. 1.	tion	o Z	N.P.D.	Precess.in		in	ille,	bane	Fallows or Johnson.	enw or ders
	7.2	Mean Y Fraction	No.	for 1860.	N.P.D.	N	.P.D.	Lacaille,	Brisbane.	Fal Joh	Greenwich or Henderson
-			-			-					
	011	1800			-		•				
281	62 47 48.10	59.38	8	+ 7.46	+ 0'499	+	0.11	•••		••	581
282	84 25 10.21	20.11	61	7.83	+ 0.425	+	1.08	•••	1666	150	585
283	65 16 11.67	59.69	7 22	8.19	+ 0.481	+	0.02				590
285		58.55	2	8.33	+ 0.493	+	0.02	•••	1704	J 180	592
	118 37 20.73		1		+ 0.319	T	0 05	2938	1717	J 180	
286	114 20 23.54	57.21	3	8.37	+ 0.330		••			••	
287	104 20 56.50	57.24	I	8.40	+ 0.365		0,00		•••		971*
288	127 37 50.46	60.16	3	8.50	+ 0.279		0,00	2958	1735	J 181	
289	115 35 31.82	60'14	2	8.43	+ 0'324		0.00	2981	1750	••	.,
290	114 33 51.89	00 14	1	0.73	+0.352		0'28	2990	1700	••	595
291	114 30 38.39	60.27	2	8.75	+ 0.328	-	0.03	2994	1763	J 182	597
292	62 52 30 96	57.61	7	8.87	+ 0.479	+	0.02				599
293	136 1 20'27	60.18	2	8.87	+ 0.235		0.00	3022	1778	152.J 184	
294	103 31 46.38	60.09	1	8.89	+ 0.360	+	0.33	••	••	J 183	600
295	104 29 20.15	57.21	3	8.94	十 0.322	+	0.02	••		••	985*
296	124 21 19.96	60.51	3	9.03	+ 0°290		0'32	3035	1797	2	
297	139 15 1.46	60.02	1	9,19	+ 0.512	_	0'02	3069	1813	1	
298	137 44 21.03	60'17	3	9'20	+ 0'225	_	0.07	3068	1812	J 187	
299	119 57 36-97	60.12	3	9.42	+ 0.304	+	0.11	3081	1825	0.00	607
300	93 18 4.54	57*23	I	9.47	+ 0.382	_	0.03			l	992*
301	142 36 30.71	60'25	2	9.21	+ 0.195	+	0.03	3102	1835	156.J 188	H 47
302	108 1 3.14	59.07	8	9*54	+ 0.341		0,00		-0	••	
303	138 52 0.19	60.10	1	9.59	+ 0'217	+	0.02	3105	1839	••	613
304	61 48 59.11	58.83	11	9.64	+ 0.763	+	0.03	2726	1876	157. [189	H 70
305	129 36 37.88	00 23	3	.9*93	- 0 203		0 03	3136	10/0	15/.3 109	11/0
306	64 2 2.91	56.95	1	10.15	+ 0.454						
3.07	92 34 44*27	58.66	4	10.12	+ 0.376						
308	113 54 11'03	57.86	49	10.12	+ 0.318	-	0.06	3153	1892	J 190	619
309	64 4 15.95	57'93	16	10.18	+ 0.452	+	0.32				620
310	108 50 15.50	57.21	3	10'24	+ 0.335	-	0.03		••	٠.	621
311	136 55 32.81	60.10	2	10'42	+0'226	+	0.04	3185	1917	158.J 192	H 55
312	105 22 7.41	59.51	3	10.22	+ 0.338	+	0.03	,	-9-7	J 193	628
313	158 12 21.01	60.11	ı	10.20	+ 0.024	_	0.06	3242	1940	J 194	
314	125 28 42.03	60.11	2	10.64	+ 0'275	+	0.03	3212	1938		
315	80 23 9.95	57'24	2	+ 10.40	+ 0.398	+	0.02			. 1-	630
		1	1	1	1			11	(1	
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	No.	No. in B.A.C.	Magnitude.	Star's Name.	Mean R.A. 1860, Jan. 1.	Mean Year and Fraction of Year.	No. of Obs. of R.A.	Annual Precess. in R.A. for 1860.	Secular Variation of Precess. in R.A.	Annual Proper Motion in R.A.
ı					h m •	1800				
ı	316	2785	6	21 Puppis	8 10 28.19	57.21	3	+ 2.753	- 0.0003	+ 0.003
١	317.	2786	6	18 Cancri χ	8 11 33.38	57'10	2	3.661	- 0.0191	+ 0.002
1	318	2789	6	19 Cancriλ	8 12 12.20	59.12	2	3.285	- 0.0141	- 0.004
١	319	2795	5	Puppis q	8 13 18.83	60'24	7	2.54	+ 0.0018	- 0.014
ı	320	2802	5	Puppis w	8 15 52.29	60.16	5	2.363	- 0.0019	+ 0.019
1	321	2807	6	22 Puppis	8 16 12.06	57:30	1	2.824	- 0.0009	0,000
ı	322	2823	5	Velorum B	8 18 13.12	60'22	1	1.847	+ 0.0005	- 0.001
ı	323	2832	2	Argûs E	8 19 37.93	60.22	1	+ 1.243	- 0.0001	- 0.014
ı	324	2878	7	Octantis A	8 20 17.23	61.35	7	-37'537	- 16.1882	1
1	325	2849	4.2	Chamæleontis a	8 22 4.85	60.30	I	- 1.453	- 0'1452	+ 0.024
1	326	2856	5	Volantis η	8 23 17.89	60.22	3	- 0.462	- 0.0770	- 0.022
1	327	2853	6	31 Cancri θ	8 23 36.58	56.73	3	+ 3.436	- 0.0117	- 0.006
1	328	2863	5	Volantis β	8 24 12.04	60.24	2	0.681	- 0.0249	- 0.009
ł	329	2862	6	33 Cancri η	8 24 36.46	58.48	7	+ 3.485	- 0.0130	- 0.002
١	330	2870	5	Chamæleontis 0	8 24 46.31	58.84	6	- 1.613	- 0.1293	- 0.042
١	331	2917	6	39 Cancri	8 32 2.91	60.92	3	+ 3.466	-0.0135	- 0.009
ı	332	2918	6	40 Cancri	8 32 8.08	58.53	3	3.465	- 0.0135	- 0.006
I	333	2926	5	Velorum	0 3- 73 3-	60.22	9	2.109	+ 0.0054	
1	334	2929	6	6 Hydræ		57:30	I	2.849	- 0.0010	- 0'002
	335	2935	5	Mali E	1	60.30	2	2.346	+ 0.0022	+ 0.018
ı	336	2937	4.2	43 Cancri ?	1 33 ,	56.69	2	3.492	- 0'0142	-0.011
1	337	2947	-5	Velorum		60.58	1	1,990		- 0.006
	338	2950	4	Argûs	, , ,	60.24	I	1.453	- 0.0000	+ 0.001
	339	2953	4	47 Cancri	1 2 .333	59.24	13	3.422		
	340	2902	5	Carinæ	8 37 (31,23)	••		1.334	- o*0079	
	341	2971	3.4	11 Hydræ	8 39 21.56	59.21	8	3.197	- 0.0011	- 0.013
	342	2976	6	Piazzi VIII. 167	8 40 9'18	57.22	2	3.042	- 0.0041	
	343		3	Argûs	8 40 50.02	60.51	1	1.656	- 0.0018	- 0.002
	344		- 5	Velorum		60.18	2	2.034	+ 0.0023	- 0.000
	345		6	14 Hydræ	8 42 19.70	57*24	. 2	3.050	- 0.0032	- 0.001
	346	1	7	Piazzi VIII. 179	1	57:30	3	3.412	- 0'0125	
	347		5	Carinæ		60°23	6	1.226	- 0.0034	1 111
	348	1	6	15 Hydræ				+ 2.955		- 0'002
	349		5	Chamæleontis		60'21	2	- 1.829		
	350	3035	6	60 Cancri	8 48 16.72	58.08	2	+ 3.586	- 0.0096	- 0'002
		-		1	1	1	-	1		

340. The R.A. nas been brought up from Johnson.

		Mean Year and Fraction of Year.	s. of	Annual	Secular	Annual		No.	for reference	
No.	Mean N.P.D.	rear of J	Obs.	Precess.	Variation of	Proper Motion	4:	1 0	, d	15 8
	Jan. x.	Mean	of N.I	N.P.D.	Precess.in	in	Lacaille	Brisbane.	Fallows or Johnson	nwi or lerse
	1	Me	No.	for 1860	N.P.D.	N.P.D.	Lac	Bri	Fal Joh	Greenwich or Henderson.
			-			-				
	0 1 0	1800				- 4 .				7
316	105 51 14.23	57.21	3	+ 10.85	+ 0.333	- 0.01			• • .	1028*
317	62 19 55.63	57.10	2	10.89	+ 0.444	+ 0:37			•••	632
318	65 32 24.41	59'12	2	10'94	+ 0.433	+ 0.04				633
319	126 13 38-12	60'24	7	11.05	+ 0.270	- 0.11	3259	1968	159.] 195	
320	122 36 40.19	60.16	5	11'21	+ 0.581	+ 0.08	3277	1979		639
321	102 36 27.85	57.30	1	11.53	+ 0.339	- 0.01			•••	1034*
322	138 2 33.08	60'20	4	11.38	+0.514	- 0.01	3308	2003	••	
323	149 3 35.32	60.52	1	11.48	+0.145	- 0.03	3327	2012	160.J 196	H 32
324	178 27 23.32	57.75	24	11.2	- 4.486	0.00		2298	1	H 5
325	166 28 33.00	60.30	1	11.65	- 0.148	→ 0:12 ·	3400	2048	J 197	••
326	162 56 47.30	60.22	3	11.74	- 0.060	- 0°02	3396	2055	J 198	
327	71 26 6.72	56.73	3	11.76	+ 0.401	+ 0.06	333	55		645
328	155 40 11.07	60.24	2	11.81	+ 0.072	+ 0.15	3384	2057	162.J 199	
329	69 5 10.01	58.81	27	11.83	+ 0.402	+ 0.06				646
330	167 1 52.38	58.84	6	11.84	- 0.192	- 0.01	3435	2073	1 200	
	, , ,				,,,		3.33	1	1	
331	69 30 2.20	60.96	2	12.32	+ 0.393	0.00			3.	
332	69 32 14.46	58.23	3	12.36	+ 0.393	- 0.04		••	••	655
333	132 30 5.91	60.22	9	12.40	+ 0.534	+ 0.05	3446	2114	••	••
334	101 58 58.64	57.30	1.	12:44	+ 0.350	+ 0.03		••	••	1070*
335	124 48 48.20	60.50	2	12.23	+ 0.565	+ 0.10	3462	2127	163.J 201	657
336	68 I 50.67	57.15	8	12.57	+ 0.392	- 0.01				659
337	136 9 8'02	60.58	1	12.62	+ 0.550	+ 0.05	3470	2141	J 202	•••
338	142 25 33.61	60.18	2	12.64	+ 0.100	- 0.05	3482	2148] 203	
339	71 20 1.64	59*14	13	12.67	+ 0.385	+ 0'24	34			666
340	149 15 45'20	60.15	I	12.73	+ 0.142	+ 0.03	3504	2163	J 205	
				, 3	. ,5				,	
341	83 4 12.78	58.71	19	12.85	+ 0.323	+ 0.04	••	••		671
342	91 23 11.69	57.22	2	. 12.90	+ 0.332	••-	••	••		••
343	144 11 48.80	60.51	1	12.95	+ 0.123	+ 0.00	3532	2194	167.J 206	H 44
344	135 31 50.20	90.18	3	12.97	+ 0'220	- 0.04	3526	2198	J 207	100
345	92 55 34.30	58.23	3	13.02	+ 0.329	0,00		••		1090*
346	71 28 43'16	57:30	3	13.07	+ 0.372					
347	146 15 23.15	60'23	6	13.10	+ 0.166	+ 0.05	3554	2217		
348	96 39 18.05	60'24	3	13.50	+ 0.318	0.00	3334			1097*
349	168 27 12.86	60.51	2	13.50	-0.506	- 0'02	3623	2254	J 208	
350	77 50 28.72	58.08	2	+ 13.44	+ 0.320	+ 0'02	30-3		-	678
	1	, ,		-3 77			1			

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No.	No. in B,A,C,	Magnitude.	Star's Name,	Mean R.A. 1860, Jan. 1.	Mean Year and Fraction of Year,	No. of Obs. of R.A.	Annual Precess. in R.A. for 1860.	Secular Variation of Precess. in R.A.	Annual Proper Motion in R.A.
				b m s	1800				
351	3055	4	65 Cancri α	8 50 50	••		+ 3.588	- 0.0008	0.000
352	3058	7	Piazzi VIII. 224	8 21 16.10	57.30	1	3,404	- 0.0131	• •
353	3065	- 6	Piazzi VIII. 227	8 52 10	••		2.802	+ 0.0005	••
354	3073	4	Carinæ b'	8 53 32.70	60.55	II	1.475	- 0'0052	- 0'002
355	3074	7	68 Cancri	8 23 21.99	57.31	1	3,380	- 0.0156	0,000
356	3079	6	69 Cancri v	8 54 32.80	58.08	2	3.23	- 0'0172	- 0.003
357	3089	4	Carinæ 62	8 55 58.03	60.58	4	1'499	- 0.0042	- 0.030
358	3110	5	Velorum c	8 59 19.47	60.16	1	2'071	+ 0.0032	- 0.018
359	3111	. 5	76 Cancri κ	9 0 9.69	60.72	3	3.260	- 0'0094	- 0'002
360	3115	7	78 Cancri	9 1 11.11	57'31	1	3'378	- 0.0130	0,001
			1 1						
361	3117	5	77 Cancri ξ	9 1 18.25	57.03	8	3.464	- 0.0129	- 0'002
362	3123	6	79 Cancri	9 2 17.93	59.55	3	3,461	- 0.0129	+ 0'002
363	3126	3	Argûs λ	9 2 50.82	60.76	3	2.502	+ 0.0042	- 0.006
364	3132	6.7	81 Cancri π ¹	9 4 37.76	29.13	I	3,330	- 0.0112	- 0.033
365	3136	5	Carinæ G	9 4 44 94	60'26	I	0.516	- 0.0602	- 0.033
366	3138	- 6	Bradley 1299	9 5 37'20	58.42	3	3'442	- 0'0155	+0'005
367	3147	6	82 Cancri π ²	9 7 29 94	58.47	3	3.326	- 0.0118	100'0 -
368	3152	5	Carinæ i	9 8 5.75	60'25	I	1'376	- 0.0081	- 0.019
369	3161	6	24 Hydræ	9 9 (49.86)			2.942	- 0.0016	- 0.003
370	3163	5	Velorum	9 10 5.60	60.71	1	2.367	+ 0.0021	- 0.012
3/-	33			, ,	12 17		-3-/		
371		. 10		9 10 52.83	56.03	4	3'229	- 0.0089	
372	3171	6	83 Cancri	9 11 9.70	58.97	7	3.369	- 0.0134	- 0.013
373	3177	1	Argûsβ	9 11 38.83	58.90	12	0.720	-0.0345	- 0.032
374	3186	2	Argûs t	9 13 20.49	60.23	3	1.911	-0'0022	- 0.003
375	3187	5	Velorum K	9 13 26.46	60.28	1	1.996	+ 0.0041	- 0.006
							,		
376	3195	6.2	Malih	9 15 17.82	60'26		+ 2.655		+ 0.010
377	3211	5.6	Octantis	9 16 16.33	56.33	10	- 7.139	- 1-37	- 0.069
378	3213	3	Argûs	9 17 46.69	60'22	- 1	+ 1.857		- 0.007
379	3223	2	30 Hydræ a	9 20 42 44	59'59	17	2,921	- 0.0012	- 0.004
380	3246	5'4	4 Leonis λ	9 23 43.59	57.45	11	3.440	- 0'0172	- 0.004
381	3257	4	Argûs	9 25 11.18	60.16	2	2'375	+ 0.0064	- 0.027
382	3269	5	Velorum N	9 26 57.96	60'21		+ 1.825	+ 0.0058	- 0.012
383	3279	5.6	Chamæleontis	9 28 40.47	56.56		- 1.666	- 0'2845	
384	32/9	11	· · · · · · · · · · · · · · · · · · ·	9 32 2.25	56.03	- 1	+ 3.168	- 0'0073	
385	3312	4.3	14 Leonis o	9 32 2 52	90.10		+ 3'220	- 0.0003	- 0.013
303	33***	+3		33 40 30	30.10		3 220	3 0093	112
				1					

		and ear.	Jo	- 1				1	No	for reference.	
	Mean N.P.D.	Year a	Obs.	Annual Precess.	Secular Variation		nnual roper		140.	ioi reiejenee,	
No.	1860,	Ye	of C N.P.	in	of	M	otion	le.	ane.	ws on.	Greenwich or Henderson,
	Jan. 1.	Mean Y Fraction	No.	N.P.D.	Precess.in N.P.D.	N	in .P.D.	Lacaille.	Brisbane.	Fallows or Johnson,	or or nder
		ZF	Z		_	-	200	Ä	M	J.	Ğ H
	0,,	1800		,	1.		,				
35 T	77 36 10.67	60.92	2	+ 13.60	+ 0.347	+	0.04		2268	168	683
352	71 19 21.37	57:30	I	13.63	+ 0.359						
353	105 36 3.30	60.13	I	13.69	+ 0.593		••			••	••
354	148 41 23.34	60'22	11	13.48	+ 0.120	-	0.04	3639	2293	169.J 210	••
355	72 22 20'37	57.31	1	13.80	+ 0.325		0.00		••	••	1119*
356	64 59 55.36	58.08	2	13.84	+ 0.366	+	0,01				687
357	148 32 56.10	60.59	7	13.93	+ 0.121	-	0°24	3661	2311	170. 5211	•
358	136 32 26.92	60.16	I	14.14	+ 0.508		0'14	3677	2326	J 212	••
359	78 46 14.62	60.72	3	14.19	+ 0.330		6.00	•••	••	171	696
360	71 57 55'55	57°31	1	14.52	+ 0.340	-	0.01		••		1130*
361	67 23 26.61	57.95	9	14.26	+ 0.349	_	0,01				698
362	67 26 14.76	59.55	3	14.35	+ 0'347	+	0.03				699
363	132 52 8.11	60.26	3	14.36	+0.518		0,00	3699	2346	172.J 214	H 63
364	74 26 30 98	59.13	1	14.47	+ 0.330	-	0.58		2356		702
365	162 2 21.42	60.56	I	14'47	+ 0.012	-	0.02	3736	2374	J 215	
366	68 8 32.88	58.42	3	14.23	+ 0*340	+	0.01	l			704
367	74 28 48'11	58.47	3	14.64	+ 0.322		0.05		2384	••	708
368	151 44 35.95	60.25	1	14.67	+ 0.130		0.00	3753	2394	J 217	,
369	98 9 45.33	60.18	I	14.78	+ 0.284	_	0.02	3,33			1139*
370	127 59 18:48	60.21	I	14.79	+ 0'227	+.	0.08	3756	2407		
371	80 6 54.82	56.03	4	14.84	+ 0,310		••		••	••	
372	71 42 11.64	58.68	31	14.86	+ 0.324	+	0.19				711
373	159 8 27.22	58.72	13	14.88	+ 0.064	-	0.00	3791	2425	174. 5 218	H 16
374	148 41 20.55	60.23	3	14.98	+ 0.182	+	0'02	3792 3786	2429	175.J 219	H 35
375	140 27 49.08	60.59	1	14.99	7.0107		5 02	3/50	2428	••	••
376	115 22 19.05	60°26	I	15.10	+ 0*248	-	0.11	3793	2436	176.J 220	713
377	175 5 48.85	56.33	10	15.12	- o.e89	-	0.01	3953	2491	••	
378	144 24 49 96	60.53	6	15.54	+ 0.140	-	0,01	3816	2459	177.J 221	H 43
379	98 3 13,30	58.47	67	15.40	+ 0.560	-	0.03		2478	178.J 222	722
380	66 25 0.28	57*36	12	15.22	+ 0.310	+	0.04			••	729
381	129 51 17.76	60.16	2	15.65	+ 0'210	_	0.02	3885	2519	J 224	
382	146 25 4.61	60'21	2	15.75	+ 0.128	+	0.01	3910	2535	J 225	
383	170 10 50.66	56.26	5	15.84	- 0.120	-	0.11	3981	2568		
384	83 10 46-92	56.03	5	16.03	+ 0'271						
385	79 28 21.41	59.77	2	16.11	+ 0.273	+	0.04		2586	180	747
-			1	•				11	1		1

No.	No. in B,A,C.	Magnitude.	Star's Name.	Mean R.A. 1860, Jan. 1.	Mean Year and Fraction of Year,	No. of Obs. of R.A.	Annual Precess. in R.A. for 1860.	Secular Variation of Precess. in R.A.	Annual Proper Motion in R.A.
				h m s	1800				•
386	3320	5	Carinæ m		60.52	3	+ 1.667	0.0000	••
387	3321	6	16 Leonisψ	9 36 6.51	57.03	1	+ 3.278	-0.0112	- 0.002
388	3334	5.6	Chamæleontis ζ	9 37 52.01	56.27	4	- 1.479	- 0.5814	+ 0.001
389	3331	3	17 Leonis ε	9 37 53'90	59.29	3	+ 3.425	- 0.0180	- 0'004
390		7	Lacaille 3999	9 39 22.28	60.29	4	2.290	+ 0.0062	••
391	3345	Var.	Bradley 1373	9 40 1.21	59.20	I	3.236	- 0,0101	+ 0.002
392		8	W.B. IX. 888	9 40 51.47	56.02	4	3'147	- 0.0069	
393	3353	. 5	Carinæ 1	9 41 23.96	60.78	4	1.651	- 0.0001	-0.011
394	3365	3	Argûs v	9 43 36.08	60.27	9	1.206	- 0.0042	0,000
395	••	11	***************************************	9 48 20-24	56.03	4	3.129	0.0065	••
396	3406		27 Leonis 2	9 50 41*29	58.64	2		- 0.0109	- 0.004
397	3410	. 5	Argûsφ	9 51 57'04	60.27	9	3,536	+ 0.0093	- 0°007
398	3415	5 -	29 Leonisπ	9 52 48.75	59.81	13	3.180	- 0.0081	- 0.003
399	34-3	9,10		9 55 28.90	26.05	4	3,110	- 0.0024	
400	3453	3.4	30 Leonis η	9 59 41.41	57.12	4	3.583	- 0.0131	- 0.004
17	3733	3 +	,	9 39 4-7-	37 -3	1	3 = 5		
401	3459	1'2	32 Leonis, a	10 0 54.77	59'33	32	3,551	- 0.0105	- 0.019
402	••	6.7	••••••	10 2 20.55	60.53	2	+ 2.687	+ 0.0080	
403	3480	5.6	Chamæleontis μ^1	10 4 18.98	56.33	5	- 1.273	- 0.3230	••
404	3493	5.6	Chamæleontis µ2	10 6 40.89	56.37	2	- 0.885	→ 0°2 599	
405	3492	6	21 Sextantis	10 7 10			+ 2.991	- 0.0003	+ 0.005
406	2500		Velorum q	10 8 51.85	60.30		21522	+ 0.0118	- 0'017
407	3509 3516	4	Argûsω		57.82	7 8	2.22	- 0.0040	- 0°026
408	3523	4	41 Leonis γ'		58.90	5	3.599	- 0.0149	+ 0.010
409	3526		Carinæg		60'26	4	1,002	+ 0.0114	- 0.014
410	3536	5	Velorum V		60.58	3	2.244	+ 0'0142	- 0.013
	3333	2		-4 33		3		,	3
411	3546	5	Velorum T	10 15 42'44	60.31	2	2.222	+ 0.0144	- 0.013
412	3550	6.4		10 16 18.35	56.03	5	3.020	- 0.0031	+ 0.001
413	3552	5	Velorumr	10 16 19.61	60.19	1	2.565	+ 0.0156	- 0.006
414	3561	6	44 Leonis	10 17 52.31	58.08	4	3.168	- 0.0080	— o [*] 007
415	3568	4	42 Hydræ μ	10 19 19	••	••	2.908	+ 0.0039	- 0,010
416	3575	6	45 Leonis	10 20 15.12	58.76	10	3.176	- 0 0085	- 0°002
417	3578	4	Antliæ a	-	60.58	3	2.743	+ 0.0096	- 0.002
418	3579	6	Piazzi X. 83		57.03	2	3.555	-00111	- 0.001
419	3585	4.2	Carinæ I		60.35	1	1'215	-0'0213	- 0.008
420	3589	5	Velorum P		60.31	1	+ 2.553	+ 0.0160	
, , ,	33-9		-	/	3-		3		

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		ear and of Year.	o .	Annual	Secular	A	nnual		No.	for reference	
	Mean N.P.D.	of	of Obs. N.P.D.	Precess.	Variation	F	roper	-	1	1	14 5
No.	1860, Jan. 1.	on o	P. N.	in N.P.D.	of Precess in	I N	Iotion in	e e	ne.	ws.	wic
	J	Mean Y. Fraction	No.	for 1860.	N.P.D.		I.P.D.	Lacaille,	Brisbane.	Fallows or Johnson.	Greenwich or Henderson.
_		× E	Z			_		급	- E		S H
	0 , ,	1800							1		
386	150 41 43'23	60.52	3	+ 16.20	+ 0'136		0.00	3987	2607		
387	75 20 22.72	57.03	1	16.23	+ 0.274	+	0'02				750
388	170 18 40.19	56.26	5	16.32	- 0'132	+	0.03	4048	2648		
389	65 34 58.92	59'49	12	16.32	+ 0'283	+	0.03		2620		751
390	122 2 18.60	60.58	3	16.40	+0'211						
391	77 55 24'49	59.20	1	16.43	+ 0'264	+	0.12		1.		756
392	84 23 39.74	56.05	4	16.47	+ 0'255	1	•••		::		/30
393	151 51 46.82	60.58	4	16.20	+ 0,130	_	0.03	4033	2664	J 229	
394	154 25 24.33	60'27	8	16.61	+0.119	+	0,01	4051	2682	181. 7 230	H 21
395	85 30 28 79	56.03	4	16.84	+ 0'241		••				
		, ,	,								
396	76 53 20.05	58.77	20	16.95	+ 0.542	+	0.01			••	767
397	143 54 8.67	60.27	10	17.01	+ 0.122	+	0.01	4093	2752	J 232	• •
398	81 17 8.43	59.75	27	17.05	+ 0.237	+	0.03		2757	182	768
399	86 48 44.85	56.02	4	17.17	+ 0.552		• •		••	••	••
400	72 33 22.07	56.96	7	17.36	+ 0.533		0,00		••		771
401	77 21 0.50	58.96	88	17'41	+ 0.556		0.01		2838	184	775
402	120 25 5.85	60.53	2	17'47	+ 0.184					104	1/3
403	171 32 10.33	56.33	5		- 0.008		0.00	4232	2880		
404	170 52 59.06	26.32	2	17.55	- 0.060	_	0.03	4246	2901		
405	97 17 59.55	90.18		17.68	+ 0.108	+	0'02	4240			1241*
7-5	97 -7 39 22	0010	1	1,00	T 0 190	'	.002				54
406	131 25 45.47	60.25	7	17.74	+0.163	-	0.02	4212	2904	J 234	
407	159 20 36.41	57.82	8	17.81	+ 0.089	+	0.01	4243	2924	J 235	
408	69 27 6.11	58.70	20	17.88	+ 0'210	+	0.12		2929		791
409	150 38 0.77	60.56	4	17.89	+ 0.154	T	0.05	4249	2935	J 236	••
410	144 19 37.84	60.58	3	17.96	+ 0.138	+	0.04	4263	2952	••	••
411	745 20 27:50	60.31	2	18.01	Louis	+	0.02	4272	2972	J 237	
411	90 11 39.49	56.03	5	18.04	+ 0.134	+	0.03	4272		J 237	
413	130 56 48.11	60.10	5	18.04	+ 0.126	T	0.03	4271	2974	J 238	
414	80 30 16.00	58.08	4	18.10	+ 0 191	+	0.15	42/1	2974	188	802
415	106 7 22.09	60.56	4	18.12	+ 0.123	+	0.11		2904	J 239	804
4*3	7 22 09	30 20	*	1015	T 0 1/3	Г	311		•••	J -39	
416	79 31 30.62	58.76	10	18.19	+ 0.188	+	0.01			••	808
417	120 21 21.73	60.58	3	18.71	+ 0.160	+	0.02	4298	3011	J 240	809
418	74 56 33.12	57.03	2	18.53	+ 0.188	+	0.04			••	811
419	163 19 10.26	60.32	1	18.24	+ 0.066		0.00	4319	3025	J 241	
420	146 55 31.67	60.30	3	+ 18.26	+ 0.156		0.03	4310	3023		

No.	No. in B.A.C.	Magnitude.	Star's Name.	Mean R.A. 1860, Jan. 1.	Mean year and Fraction of year,	No. of Obs. of R.A.	Annual Precess. in R.A. for 1860.	Secular Variation of Precess. in R.A.	Annual Proper Motion in R.A.
				h m s	1800				3
421	3594	5	Carinæ s	10 22 44.82	60,53	3	+2.190	+ 0.0160	+ 0.003
422	3609	4	47 Leonis ρ	10 25 26.27	58.60	12	3'167	- 0.0081	0.000
423	3619	4	Carinæ p	10 27 3'10	60'24	7	2.155	+ 0.0166	- 0.013
424	3644	5	Velorump	10 31 25.37	60'29	6	2.252	+ 0.0140	- 0.014
425	••	11	*************	10 32 42'15	56.03	5	3.048	- 0.0013	••
426	3655	5	Carinæ t2	10 33 25.88	60.30	2	2.269	+ 0.0193	0.000
427	3660	5	Chamæleontis y	10 33 47'36	60'31	1	0.784	- 0.0649	- 0.013
428	3681	5.6	Brisbane 3176	10 37 16.62	60'23	1	2'115	+ 0.0194	- 0'002
429	3686	3	Argûs θ	10 37 58.08	60'31	5	2.156	+ 0.0192	- 0.011
430	3690	6	37 Sextantis	10 38 48.20	60'99	1	3,130	- 0.0060	- 0.005
431	3695	Var.	Argûs ή		59'84	9	2.309	+ 0'0214	- 0.003
432	••	10			56.03	4	3.040	- 0.0004	••
433	3702	3	Argûε μ		60.58	5	2.557	+ 0.0105	+ 0.005
434	3708	5	53 Leonis /		58.89	6	3,191	- 0.0085	- 0,003
435	3723	5.6	Chamæleontis δ ¹	10 43 53.93	56.32	5	0.667	- 0.0894	••
436	3724	5	Chamæleontis 82	10 44 25.40	57'03	6	0.666	- 0.0892	- 0.040
	3740	5	Carinæu	_	60.50	7	2'406	+ 0.0543	0.000
437	3755	5'6	Lacaille 4527		60.56	5	2.777	+ 0.0123	- 0.002
	3768	5	58 Leonis d		60'25	2	3,101	- 0.0039	- 0.003
439	3769	5	59 Leonis		56.36	1	3,118	- 0.002	- 0.002
440	3/09	,	3,9	33 -9 34	30 30	1	3	0 0032	- 0003
441		10		10 55 59.63	56.03	4	3.030	+ 0.0016	
442	3788	5	63 Leonis χ	10 57 47.58	58.64	16	3.153	- 0.0057	- 0'024
443	3793	4.2	9 Crateris	10 58 35.44	60'29	6	2.895	+ 0.0114	- 0.009
444	3794	5	Bradley 1538	10 59 10.20	60.30	5	+ 2.897	+ 0.0114	+ 0.002
445	3803	6	Octantis η	11 0 10.69	56.35	5	- 0.126	- 0.5893	
446		10	6- T 45	11 4 0.69	56.03	4	+ 3.030	+ 0.0052	••
447	3832	5	69 Leonis p ⁵		60.26	4	3.076	- 0.0014	0.000
448	3834	2.3	68 Leonis δ		60.01	4	3,195	- 0.0133	+ 0.011
449	3836	6	B.F. 1589		58.38	2	3.088	- 0.0026	••
450	3843	6	73 Leonis n	11 8 32.22	56.21	2	3*147	- 0.0086	- 0.001
451	3848	5.4	74 Leonis ø	11 9 32.69	59'97	5	3'057	+ 0.0006	- 0,000
452	3859	3.4	12 Hydræ et Crateris &		20,10	15	3.003	+ 0.0063	- 0,000
453	3862	4	77 Leonis σ		58.43	7	3.104	- 0'0042	- 0.000
454	3866	4	Centauri		60'27	6	2.714	+ 0.0301	- 0.002
455	3877	4	78 Leonis		56.29	3	+ 3'122	- 0.0066	+ 0.002

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		car and of Year,		Annual	Secular	Annual		No.	for reference	•
	Mean N.P.D.	Year n of Y	f Obs. P.D.	Precess.	Variation	Proper		1		14 6
No.	1860. Jan. 1.	Y G	of N.P	in N.P.D.	of Precess,in	Motion	le,	ne.	SWS	nwi or derse
	J 1.	Mean Y Fraction	No.	for 1860.	N.P.D	N.P.D.	Lacaille,	Brisbane.	Fallows or Johnson	Greenwich or Henderson
		FF	4				La	ğ	m 17	O H
	0 , "	1800			. *					
421	148 1 31.55	60.29	3	+ 18.28	+ 0'124	+ 0.03	4314	3031	••	819
422	79 58 26.93	58.65	33	18.37	+ 0.122	+ 0.03		3046		
423	150 57 57.66	60.24		18.43	+ 0.114	+ 0.03	4348	3072	J 242	••
424	137 29 56.98	60.29	7	18.28	+ 0.131	+ 0.03	4378	3114	J 243	••
425	92 47 37.64	56.03	5	18.62	+ 0.128	••		•••	••	••
426	148 27 16.67	60.30	2	18.64	+ 0.114	- 0.10	4396	3127	••	••
427	167 52 56.13	60.31	1	18.65	+ 0.034	0,00	4428	3146	J 245	••
428	153 44 5.53	60.23	1	18.76	+ 0.101	+ 0.02	••	3176	J 246	• •
429	153 39 41*94	60.31	5	18.78	+ 0.101	+ 0'02	4447	3184	192.J 247	H 22
430	82 53 23.89	60.99	1	18.81	+ 0.120	+ 0.09		••	193	836
	118 06	4	11	18.84	1 01-0	1 6151		0 7 0 0	TOA T O.O	H 33
431	148 56 57.20	59'57			+ 0.108	+ 0.01	4457	3198	194.J 248	,,
432	93 58 40.06	56.02	4	18.84	+ 0.145			•••		
433	138 40 53.43	60.59	5	18.87	+ 0.118	+ 0.08	4461	3206	195.J 249	H 50
434	78 42 53.86	58.98	10	18.90	+ 0.146	+ 0.05			••	
435	169 43 50.58	56.32	5	18.96	+ 0.053	+ 0.08	4509	3243	••	••
436	169 48 7.08	57'03	6	18.98	+ 0.024	+ 0.01	4513	3247	J 251	
437	148 6 37.06	60.30	8	19.07	+ 0.101	+ 0.03	4515	3274	J 252	
438	126 23 8.93	60.56	5	19.13	+ 0.113	+ 0.50	4527	3293		848
439	85 37 53.38	60'25	2	19.51	+ 0'122	+ 0.03				851
440	83 8 49.69	58.50	9	19.22	+ 0.155	+ 0.06			197	852
		,		, , ,		•				
441	96 28 8.37	56.03	4	19.58	+ 0.114	••		••	••	• •
442	81 54 28.56	58.48	43	19.32	+ 0.114	+ 0.08			199	860
443	116 32 19.57	60°29	6	19.34	+ 0.104	+ 0.03	4583	3376	J 254	861
444	116 31 54.86	60.30	5	19.35	+ 0.103	+ 0.03	4587	3382	••	863
445	173 50 26.80	56.35	5	19.38	- 0.013	+ 0.08	4643	3409	••	••
					1 01					
446	97 29 3.05	56.03	4	19.46	+ 0,000	••	•••	2456	••	872
447	89 18 30.19	60.78	3	19.51	+ 0.002	0.00	•••	3456	••	873
448	68 42 35.40	58.72	9	19.52	+ 0.099	+ 0.14	•••	•••	•	874
449	86 58 6.92	58.38	2	19.52	+ 0.092		••	••	• •	878
450	75 55 44.98	56.51	2	19.55	+ 0.034	+ 0.04	••	••	••	0/3
451	92 53 11.97	59.82	5	19.57	+ 0.089	+ 0'04			J 257	879
452	104 1 16.82	58.23	71	19.62	+ 0.085	- 0.18			J 258	884
453	83 12 14.05	28.39	19	19.65	+ 0.085	+ 0.03			203	885
454	143 43 27'41	60.58	8	19.66	+ 0.069	+ 0.03	4717	3544	204.J 259	
455	78 41 59.85	56.33	4	+ 19.70	+ 0.077	+ 0.02				888
	, .,	33	. 1							

No.	No. in B.A.C.	Magnitude.	Star's Name.	Mean R.A. 1860, Jan. 1.	Mean Year and Fraction of Year.	No. of Obs. of R.A.	Annual Precess. in R.A. for 1860.	Secular Variation of Precess. in R.A.	Annual Proper Motion in R.A.
				h m s					
456		0.10			1800	4	+ 3.030	+ 0.0042	•
457	3900	5	84 Leonis 7		58.07	6	3 086	- 0.0055	- 0.001
458	3916	5	87 Leonis e		59.63	7	3.064	+ 0.0010	- 0.001
459	3921	6.7	17 Crateris, 1st Star		60.50	2	2.963	+ 0.0140	- 0.002
460	3922	5	17 Crateris, 2nd Star		60'25	4	2.963	+ 0.0140	- 0.002
1									
461	3928	4	Lacaille 4779		60.30	4	2.953	+ 0.0162	- 0.016
462	3930	6	89 Leonis		57.66	3	3.082	-0 0019	- 0.008
463	••	7	W.B. XI. 475		56.05	4	3.035	+ 0.0028	••
464	3941	4	Centauri		60'34	2	2.733	+ 0.0445	- 0.010
465	3946	5.4	91 Leonis v	11 29 46.87	28.11	5	3.025	+ 0.0005	- 0.003
466		8	Lalande 22032	11 30 6.41	60.31	2	3.073	+ 0,0001	- 0.004
467	4.0	9	Lalande 22038		60.29	10	3.073	+ 0.0001	- 0'004
468		10,11		-	56.03	5	3.043	+ 0.0060	
469	3982	4.5	3 Virginis v		56.50	4	3.088	- 0'0032	+ 0,001
470	3995	2	94 Leonis β		60.31	4	3,101	- 0'0075	- 0.036
	3773		74 =	1- 3+)-			, , , ,	1	-
471	4002	3'4	5 Virginis β	11 43 24.12	56.89	5	3.076	- 0.0004	+ 0.048
472	4006	6	Piazzi XI. 167	11 43 52.86	59.96	4	3.062	+ 0.0034	+ 0.011
473	4015	4	Lacaille 4923	11 45 50.64	60.59	7	3.018	+ 0.0199	- 0.008
474	4017	2.3	64 Ursæ Majoris γ	11 46 27			3.183	- 0'0437	+ 0,011
475	4048	5	Chamæleontis &	11 52 43.73	60.30	5	2.882	+ 0.1100	- 0.018
476		6	*** ,						
477	4049		7 Virginis b		56.89	4	3.075	-0.0008	- 0'002
477	4061	4°5	8 Virginisπ		56.44	I	3.077	- 0 0023	0.000
479	4067	56	Crucis 01			9	3'027	+ 0.0574	- 0'025
480	4085	6	Crucis θ² Lacaille 5029		60.32	I	3'040	+ 0.0222	+.0°002 - 0°011
1	4005		Lacame 5029	12 0 30 90	60.31	1	3.028	+ 0.0373	- 0011
481	4087	3	Centauri δ	12 1 7.17	40.58	5	3.080	+ 0.0373	••
482	4090	4	1 Corvi a	12 1 11.74	60.58	2	3.075	+ 0.0123	+ 0.010
483	4094	6	10 Virginis	12 2 30'90	57.56	9	3.071	+ 0.0006	+ 0.001
484	4097	3	2 Corvi ε	12 2 55.78	59.39	13	3.079	+ 0.0141	- 0.005
485	4120	3	Crucis ð	12 7 43.88	60.34	2	3'144	+ 0.0222	- 0.010
486	4131	5	Chamæleontis β		56.39	12	3.366	+ 0.1778	- 0.014
487	4137	6	13 Virginis		60'26	2	3.025	+ 0.005	0.000
488	4145	3.4	15 Virginis η		57.88	5	3.025	+ 0.0056	- 0.004
489	4187	1	Crucis a		60'26	1	3 281	+ 0.0673	- 0.022
490	4189	6	Centauri	12 18 59.16	57'46	1	+ 3 207	+ 0.0445	- 0'002
-		-	1					1	

481. The R.A. has been brought up with Precession alone.

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		Mean Year and Fraction of Year.	o .	Annual	Secular	Ar	nual		No.	for reference.	
	Mean N.P.D.	rof of	Obs.	Precess.	Variation	Pr	oper				-5 -6
No.	1860, Jan. 1.	n Y	S Z	in N.P.D.	of Precess.in		otion in	lle.	Brisbane,	son.	Greenwich or Henderson.
	J	Mea	No.	for 1860.	N.P.D.		P.D.	Lacaille.	risb	Fallows or Johnson	or
			-					1	<u>m</u>		D H
	0,,										
456	99 58 39.97	1800 56.03	4	+ 19.74	+ 0.070						
457	86 22 23.51	57.79	16	19.76	+ 0.068	+	0'02				897
458	92 13 53'17	59.21	7	19.80	+ 0.063	+	0.03			J 262	903
459	118 29 46.94	60.29	2	19.83	+ 0.024	_	0.11				905
460	118 29 39.24	60.25	4	19.83	+ 0.022	_	0'11	4770	3628		906
461	121 4 59.54	60.32	3	19.84	+ 0.022	+	0.03	4779	3641	1 263	907
462	86 9 45.47	57.66	3	19.85	+ 0.026	+	0.13	+///	3042	208	908
463	101 18 53.94	56.02	4	19.86	+ 0.023						,,
464	152 14 43'97	60.34	2	19.88	+ 0.044	+	0.06	4804	3669	209.] 264	
465	90 3 3.23	58.48	22	19.88	+ 0.020	-	0.03			210	915
											,,,
466	89 48 13.66	60.71	2	19.89	+ 0.020	+	0.03	••	••	••	
467	89 46 17.98	60.59	10	19.89	+ 0.049	+	0.13		**	••	
468	102 21 19.20	56.03	5	19.95	+ 0.036		• •	••		••	
469	82 41 10.37	56.17	5	19.97	+ 0.033	+	0.51	•••		••	927
470	74 38 43'56	58.23	14	19.99	+ 0.022	+	0.10	••	3780	211	931
471	87 26 47'04	57'01	19	20.00	+ 0'024	+	0.58		3791	212	932
472	94 33 17:23	59.96	4	20.01	+.0.023	+	0.10		3//-		933
473	123 7 45'34	60.50	7	20.02	+ 0.010	+	0.02	4923	3811	213.] 267	935
474	35 31 13.73	56.48	1	20.05	+ 0.010		0.00				937
475	167 26 31'72	60.30	5	20.02	+ 0.004	+	0.03	4974	3865	J 268	
476	85 33 54.56	56.89	4	20.02	+ 0.000	+	0.03	••	••		945
477	82 36 17.31	56.44	2	20.05	+ 0.004	+	0.04	••	**	••	947
478	152 32 0.19	60.58	9	20.02	- 0.001	+	0.06	4990	3892	••	••
479	152 23 10.30	60.35	1	20.03	- 0.003	+	0.02	4999	3901		••
480	139 52 52.85	60.31	1	20.06	- 0.011	+	0.03	5029	3930	216	••
481	139 56 33.98	60.32	1	20.06	- 0.011	+	0.02	5033	3934	217.] 270	H 48
482	113 56 53.41	60.58	2	20.06	- 0.011	+	0.04	5035		J 271	955
483	87 18 56.82	57.56	9	20.02	- 0.014	+	0'21				956
484	111 50 27.76	59.16	19	20.02	- 0.014	-	0.01			J 272	957
485	147 58 11.81	60'34	2	20.04	- 0.022	+	0.06	5075	3975	218.J 274	H 37
	60										
486	168 32 4.68	56.40	10	20.04	- 0.031	-	0.05	5085	3986	220.J 276	H 13
487	90 0 31.60	60.56	2	20.03	- 0.031	+	0'04		••	221	969
488	89 53 18.32	57'94	22	20.03	- 0.034	+	0.03				972
489	152 19 24.27	60.26	I	19'99	0.048	-	0.02	5148	4050	223.J 279	H 26
490	140 40 28.23	57.46	1	+ 19.99	- 0.044	+	0.10	5150	4052		

	No.	No. in B.A.C.	Magnitude.	Star's Name.	Mean R.A. 1860, Jan. 1.	Mean Year and Fraction of Year.	No. of Obs. of R.A.	Annual Precess, in R.A. for 1860.	Secular Variation of Precess. in R.A.	Annual Proper Motion in R.A.
					h m ·	1800				
ı	491	••	7.8	Lalande 23305		56.09	5	+ 3,111	+ 0.0158	+ 0.003
ı	492	4230	6	21 Virginis q		59.05	6	3.096	+ 0.0080	- 0.009
1	493	4234	2.3	9 Corviβ	12 27 2.35	59.12	35	3.138	+ 0.0163	- 0.008
۱	494	4237	7	Virg. Piazzi XII. 125	/ -	*6:20	**	3'074	+ 0.0038	- 0.000
ł	495	••	10		12 28 37.11	56.12	4	3.129	+ 0.0139	- 0'020
ł	496	4247	6	25 Virginis f	12 29 34'84	28.02	6	3.082	+ 0.0065	0,000
ı	497	••	7	Brisbane 4091		58.48	57	13.329	+13.4285	- 0'020
ı	498	4257	5	26 Virginis χ		59.33	2	3.096	+ 0.0022	0.000
ı	499	4268	3,5	29 Virginis γ ¹	12 34 34.00	59'23	11	3.074	+ 0.0042	- o'o37
ı	500	••	3'2	29 Virginis γ ²		• •	••	3'074	+ 0.0042	- 0.037
ı	501	4269	6	28 Virginis	12 34 43'47	58.63	6	3.096	+ 0'0074	+ 0.002
ı	502	4275	6	Crucis	12 35 12.72	57'46	1	3.369	+ 0.0242	- 0'004
ı	503		1112		12 35 15.03	56.11	5	3.146	+ 0.0148	
ı	504	4277	6	W.B. XII. 603	12 36 (26.70)	••	••	3'075	+ 0.0043	
١	505	4280	4	Muscæ β	12 37 44.19	60.33	1	3'597	+ 0.0086	- 0.014
ı		4289	2	Crucis β	12 20 24:10	60.40	3	3'453	+ 0.0649	- 0.000
ı	506	4293	5	Octantis		56.41	5	5'463	+ 0'7644	- 0 009
١	507 508	4313	5.6	Centauri		57'46	1	3'279	+ 0,0310	- 0.007
1	509	+3-3	12			56.13	4	3.140	+ 0.0160	
1	510	4321	5	Lacaille 5312		60.35	5	3'290	+ 0'0318	- 0'002
1	3									
ı	511	4323	6	38 Virginis		56.60	4	3.082	+ 0.0020	- 0.019
ı	512	4325	_5	Centauri		57.48	1	3.477	+ 0.0296	+ 0,001
1	513	4330	5	40 Virginis 4		58.84	4	3,114	+ 0.0001	- 0'002
1	514	4340	3	43 Virginis d	1	56.44	1 2	3.025 2.840	+ 0°0025 - 0°0154	- 0.030
1	515	4346	3	12 Candin v chatic, u	12 49 20 20	30 43		2 040	- 0 0154	- 0.053
1	516	4352	6	44 Virginis	12 52 26.78	57'19	2	3.088	+ 0.0063	+ 0.003
	517	4353	4	Muscæ à	12 52 42.15	60.31	7	3'947	+ 0'1354	+ 0'042
	518	••	10,11	1		56.13	5	3.193	+ 0.0141	•••
	519	4358	6	46 Virginis		••	••	3.086	+ 0.0065	+ 0,001
	520	4368	5.6	Centauri ξ	12 55 28:39	57'48	1	3.438	+ 0'0455	- 0'002
	521	4373	6	48 Virginis	12 56 41			3.081	+ 0.0062	- 0'002
	522	4379	5	Centauri ξ		60'30	3	3'464	+ 0.0460	- 0.016
	523	4391	6	49 Virginis		59.29	I	3'134	+ 0.0104	+ 0.001
	524	4395	5.6	45 Hydræ		26.11	4	3,518	+ 0.0185	+ 0.004
	525	4401	4.2	51 Virginis 6	13 2 42.21	56.41	6	+ 3.102	+ 0.0074	- 0.004
		1	1	1	1	1	-	1	J	1

		nd ear.	Jo				1	No.	for reference.	
	Mean N.P.D.	Mean Year and Fraction of Year	Obs.	Annual Precess.	Secular Variation	Annual Proper		1	1	
No.	1860. Jan. 1.	ion Y	P Z	in N.P.D.	of Precess,in	Motion	lle.	ane.	Fallows or Johnson	Greenwich or Henderson
	3	Mea	No.	for 1860.	N.P.D.	N.P.D.	Lacaille.	Brisbane.	Fallows or Johnson	reen
_			_					<u>m</u>		O =
	0 / /	1800								
491	107 50 4.78	26.00	5	+ 19.97	- 0.049	0.00		••	••	• •
492	98 40 45.16	59.05	6	19.92	- 0.061	0.00			••	986
493	112 37 19:22	28.61	98	19.92	- 0.065	+ 0.02		••	227.J 285	987
494	90 38 7.97	56.32	7	19'92	- 0°062	+ 0.04		••		989
495	108 47 26.11	56.12	4	19.90	- o·o65	••			••	•••
496	95 3 34-26	58.05	6	19.89	- 0.064	+ 0.00			••	994
497	179 1 48.30	58.35	59	19.89	- 0.561	- 0.04		4091	••	••
498	97 13 27 44	59.50	7	19.86	- 0.041	+ 0.04		••		995
499	90 40 50.66	58.52	11	19.83	- 0.076	+ 0.02	••	4159	230.J 289	997
500	90 40 53.84	56.31	2	19.83	- 0.076	+ 0.02			••	999
501	96 43 47 17	58.63	6	19.83	- 0.077	+ 0.03				1000
502	145 24 26.96	57.46	1	19.82	- 0.083	+ 0.02	5251	4163		
503	109 45 48.29	56.11	5	19.82	- 0.048				••	
504	90 48 21.92	56.29	3	19.80	- 0.080					1003
505	157 20 26.32	60.33	1	19.78	- 0.095	+ 0'04	5267	4179	J 290	
									70	
506	148 55 21'34	60.40	3	19.76	- 0.095	+ 0.03	5277	4189	231.J.291	H 34
507	174 21 41.78	56.41	5	19'74	- 0.149	+ 0.04	5268	4187		/ ••
508	128 55 0'90	57.46	I	19.68	- 0,099	- 0.03	5300	4217		••
509	110 40 12.19	56.13	4	19.67	- 0.008	+ 0.08			J 292	••
510	129 25 0'24	60.32	5	19*66	- 0,103	+ 000	5312	4232	1 292	•••
511	92 47 29.58	56.41	10	19.65	- 0.098	+ 0.03				1014
512	146 25 2'49	57.48	1	19.65	- 0.109	+ 0.19	5317	4237	J 293	
513	98 46 39.81	58.39	11	19.63	- 0.101	+ 0.04			••	1016
514	85 50 27.96	56.44	1	19.61	- 0.105	+ 0.00		••		1017
515	50 55 28.39	56.44	3	19.59	- o.c32	- 0.06	••		••	1019
516	93 3 20.98	56.53	7	10:53	- 0.111	- 0.03			233	1024
517	160 47 33.09	60°31	7	10.23	- 0.130	0.00	5349	4280	J 294	
518	111 35 41.13	56.15	5	19.52	- 0.112	1	3343		J -54	
519	92 36 53'57	56.25	2	19.21	- 0.115	- 0.07				1025
520	138 46 24.93	57.48	1	19'47	-0'127	+ 0.06	5370	4299		
	, , , , , ,	37.4.		3 47						
521	92 54 32'15	56.53	3	19.45	- 0.110	+ 0.03				1030
522	139 9 18.62	60.30	3	19.40	- 0.136	+ 0.05	5396	4321	J 295	••
523	99 59 26.53	59'29	2	19.36	- 0.158	+ 0.05		4334		1035
524	112 22 6.02	26.11	4	19'34	- o.133	+ 0.06		•••	234. J 296	1037
525	94 47 25 73	57.12	26	+ 10.31	- 0,131	+ 0'04		•••	J 297	1039
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No.	No. in B.A.C.	Magnitude.	Star's Name.	Mean R.A. 1860, Jan. 1.	Mean Year and Fraction of Year,	No. of Obs. of R.A.	Annual Precess, in R.A. for 1860.	Secular Variation of Precess, in R,A,	Annnal Proper Motion in R.A.
				h m s	1800				8
526	4409	5		3 3 23.88	60.38	3	+ 3.408	+ 0.0313	- 0'020
527	4418	5	-	13 4 36.75	60.33	1	3.172	+ 0.0138	+ 0.003
528	4426	5		13 5 48.21	60.32	2	3.971	+ 0'1128	- 0.018
529		10		13 9 54.68	26,11	5	3°244	+ 0.0100	••
530	4442	6	58 Virginis 1	13 10 7'29	59.15	5	3.145	+ 0.0108	- 0.003
531	4460	7	Octantis	13 14 10'59	56.47	8	8.029	+ 1.3984	
532	4473	7	Piazzi XIII. 67	13 15 14'99	56.12	2	3.115	+ 0.0086	+ 0.003
533	4477	6	65 Virginis 1	13 16 (3.80)	. •		3.104	+ 0.0080	0,000
534	4478	6	66 Virginis	13 17 (16-17)		••	3,106	+ 0.0082	+0'012
535	4480	1	67 Virginis a 1	13 17 49'27	58.67	23	3°154	+ 0.0114	- 0.002
536	4483	5	Octantis R	13 19 1.07	56.64	28	8:305	+ 1.4182	
537	4494	5.6	69 Virginis		59'29	1	3.106	+ '0142	
538	4507	4.2		3 22 56.51	60.50	1	3'451	+ 0.0338	- 0,011
	4508	7		13 23 (7.69)	••		3,150	+ 0.0001	+ 0.004
539	4516	5	74 Virginis 12 1		•		3,130	+ 0.0000	- 0.006
540	4510)	/4 v ii gimio	3 24 (41 30)	••	••	3 199	+ 0 0090	- 0.000
541	4517	6	Lacaille 5578	3 24 45 45	60.41	2	3,338	+ 0'0242	- 0.002
542	4520	6	75 Virginis 1	13 25 23.12	59.23	4	3,199	+ 0.0141	- 0.001
543	4521	5	76 Virginis 1	13 25 35.82	58.45	9	3,123	+ 0'0112	0'004
544	4531	6	Piazzi XIII. 126 1	13 27 14.25	57.42	2	3,185	+ 0.0129	+ 0.005
545	4532	3'4	79 Virginis ζ 1	3 27 33.65	58.02	3	3.021	+ 0.0063	- 0.019
	4546		81 Virginis, 1st Star		56.13		212.6		
546		7	Centauri ε 1		60.49	1	3.136	+ 0.0101	+ 0.003
547	4549	6	82 Virginis m 1		56.32	1	3.752	+ 0.0286	- 0.018
548		6	83 Virginis		58.24	1	3*147	+ 0.0102	- 0,010
549	4574	4.2	1 Centauri i		60.34		3'224	+ 0.0120	+ 0.004
550	4579	43	1 Centauri	3 3/ 44 30	00 3/	3	3'422	+ 0 0278	- 0.038
551	4582	6	85 Virginis 1	3 38 3.00	58.28	4	3.551	+0.0148	0.000
552	4585	6	86 Virginis 1	3 38 28.82	56.12	1	3.188	+ 0.0178	- 0.004
553		10'11		13 41 10.61	56.15	5	3.320	+ 0.0222	
554	4602	3.4	Centauri µ 1	13 41 11.96	60'47	I	3.285	+ 0.0388	+ 0,001
555	4603	5	2 Centauri g	3 41 20.73	60.33	2	3'454	+ 0.0293	- 0.002
556	4607	2	85 Ursæ Majoris n	3 42 1'03	56.43	1	2.386	- 0,0102	- 0'012
557	4608	5		3 42 16'21	59*29	10	3'253	+ 0.0163	- 0,000
558	4638	3	Centauri 3	-	60.38	2	3.707	+ 0.0468	- 0.013
559	4648	3	8 Boötis η 1		••		2.862	- 0.0002	- 0.004
560	4660	5	Apodis θ 1		56.46	4	+ 5.608	+ 0.5893	- 0 004
300	1	'		3 7 7 1	7- 47	T	, , , , ,	. 0 2093	

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Ī			Mean Year and Fraction of Year.	of	Annual	Secular	Δ.	nnual		No.	for reference.	
ı		Mean N P.D.	ar of Y	D.	Precess.	Variation	P	roper			-	
ı	No.	1860,	Z c	of Obs. N.P.D.	in	of	M	roper		ų,	ws n.	ich
ı		Jan. 1.	ctic	02	N.P.D. for 1860.	Precess.in N.P.D.	%T	in P.D.	aille	рап	Fallows or Johnson.	or
ı			Me	No.	for 1800.	N.P.D.	N.	P.D.	Lacaille.	Brisbane.	Joh	Greenwich or Henderson.
ŀ												- H
ı		0,0				,						
ı	526	132 37 16.73	1800 1800	3	+ 19.29	- 0'144	_	0.04	5422	4353		
ı	527	105 26 31.70	60.33	1	19'26	- 0.132	+	0.30	3	4362	J 298	1042
ı	528	157 9 3'47	60.32	2	19.53	- 0'172	+	0.04		4369	1 290	
ı	529	113 8 28.38	26.11		19.13	- 0.120	T		5433			
ı		99 48 26.75		5			,	••	••	**	••	
ı	530		59'17		19,13	- 0°146	+	0.04	•••	•••	••	1052
I	531	175 5 48.76	56.47	8	19.02	- 0.380	-	0°02	5452	4410	••	••
ı	532	95 27 45'59	56.15	2	18.98	- 0.122	+	0.35	••	••	••	1060
ı	533	94 11 26.64	56.51	2	18.96	- 0.126	+	0°02	••	••	••	1061
ı	534	94 25 51.51	56.18	6	18.93	- 0.128	+	0.05	•••			1062
ı	535	100 25 45'48	58.27	118	18.91	- 0.191	+	0.04	•••	4457	237. 302	1063
ı	536	175 3 52'49	56.64	28	18.88	- 0.411	+	0.04	5482			
ı	1	105 14 47.18		1	18.85	- 0,166	T	0 04	5402	4445		**
Ì	537		59°29	1	18.76	- 0.182	+	0'04		6] 304	••
ł		128 40 57.71	-		18.75	-	+		5569	4496		***
ı	539	95 44 46.29	56.17	11		-0.140	_	0.02		••	••	1073
ı	540	95 31 53.27	56.17	5	18.70	- 0'172	+	0.04		••	••	1076
1	541	118 50 36.27	60'41	2	18.70	- o'184	+	0.03	5578	4519	1	1077
ı	542	104 38 29.37	59.53	4	18.68	- 0.178	+	0.10				1078
ı	543	99 26 31.75	58.45	9	18.67	- 0.176	+	0.03				1079
١	544	102 29 41'70	57.42	2	18.62	- 0.180	+	0.06		4542		1082
ı	545	89 52 43'01	57'19	11	18.61	0'175	-	0.06				1083
۱			3. 3									
I	546	97 9 22.92	56.15	2	18.25	- 0.184	+	0'14		• •		1087
	547	142 45 8.97	60.49	I	18.49	- 0'220	+	0'02	5618	4570	239.J 305	H 45
1	548	97 59 42.14	56.37	1	18.38	- 0.101		0.00			••	1096
1	549	105 28 23.14	58.24	1	18.29	- 0'201	+	0.06		4616		1099
I	550	122 20 2.67	60.37	3	18.26	- 0.514	+	0.55	5668	4619	J 306	1102
1		TOT 0 44.0	40.00		-0.0	010.5		0.11		4623		1102
	551	105 3 44.80	58.28	4	18.22	- 0'203	+	0.01		1		1103
1	552	101 43 24'05	56.12	1	18.53	- 0.505	F					
1	553	115 57 24.80	56.13	5	18.13	- 0'216		0.03	5684	4645	1.208	
	554	131 46 26:39	60'47	I	18.13	- 0.531			5688	4647	J 308	1108
1	555	123 45 0'90	60.31	1	18.13	- 0.553	+	0.12	5000	404/	J 309	1108
1	556	39 59 8.77	56.44	2	18.10	- 0.128	+	0.03				1109
	557	107 26 6.61	59.04	12	18.09	-0.513	+	0.03		4653		1112
1	558	136 35 49.21	60.38	2	17.91	- 0.251	+	0.02	5737	4683	240. 5 312	H 57
	559	70 53 55.96		I	17.87	- 0.197	+	0.36				1121
	560	166 7 4.13	1	4	+ 17.72	- 0.391	-	0,01	5757	4712		
		1		1	1		1		f.		1	
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No.	No. in B.A.C.	Magnitude.	Star's Name.	Mean R.A. 1860, Jan. 1.	Mean Year and Fraction of Year.	No. of Obs. of R.A.	Annual Precess. in R.A. for 1860.	Secular Variation of Precess. in R.A.	Annual Proper Motion in R.A.
				b m s	1800			,	
561	4668	5	Centauri v2		60.33	1	+ 3.703	+ 0.0440	- 0.010
562	4469	x	Centauri β	13 53 58.60	60.33	10	4.163	+ 0.0837	- 0.010
563	4672	4.2	93 Virginis τ	13 54 31.48	60.39	4	3.047	+ 0.0064	+ 0.001
564	4681	5	Centauri x	13 57 30.76	60.48	2	3.632	+ 0.0372	- 0,011
565	4686	. 3	5 Centauriθ	13 58 27			3.246	+ 0.0314	- 0.021
566	4700	5.6	Piazzi XIII. 317	14 3 12'00	58.48	15	3.264	+ 0.0126	- 0.002
567	4705	5	Octantis δ		56.44	5	8.734	+ 0.0831	- 0.063
568	4716	4.2	98 Virginis K	14 5 25			3,100	+ 0.0153	+ 0.001
569	4712	5	Apodis ε	14 5 40'19	56.43	4	6.817	+ 0.4771	- 0.002
570	4722	6	Piazzi XIV. 22		.58.73	10	3.296	+ 0.0168	+ 0,008
57.X	4729	1	16 Boötis a	14 9 16.60	58.45	14	2.813	+ 0.0003	- 0.079
572	4730	6	Centauri		57.46	1	4'345	+ 0.0889	
573	4743	5.4	100 Virginis λ		60.33	1	3*236	+ 0.0140	- 0.003
574	4768	5	Lupi τ ¹	14 17 10:11	60.57	I	3.815	+ 0.0437	-0'004
575	4784	6.2	52 Hydræ	14 19 58.92	60'42	2	3'495	+ 0.0250	+ 0.003
576	4790	6.2	Octantis Z	14 22 42.65	58.79	81	21.23	+ 7'4007	-0.168
577	4808	4.3	25 Boötis p		30/9		2.595	- 0.0016	-0.008
578	4811	. 3	Centauri η	1	60'48	1	3'779	+ 0.0388	- 0.000
579	4831	4	Centauri a1		60'45	3	4.497	+ 0.0872	- 0'470
580	4832	1	Centauri a2	1	58.85	2	4.497	+ 0.0872	- 0.470
1							1	, , ,	.,
581	4852	5	Lacaille 6063		60.21	2	3.649	+ 0.0301	- 0.008
582	4868	6	5 Libræ		57.73	10	3.508	+ 0.012	- 0.003
583	4876	2.3	36 Boötis 62		••	••	2.624	- 0.0001	- 0.002
584	4872	6	Centauri		57.46	I	4.342	+ 0.0200	- 0.053
585	4880	5	56 Hydræ	14 39 34.87	60.51	3	3.481	+ 0'0220	0,000
586	4882	5	57 Hydræ	14 20 46.30	60'46	1	3'492	+ 0'0224	- 0.002
587	4883	6	Octantis		56.22	6	9.600	+ 0.0112	
588	4895	2.3	9 Libræ a	1	58.21	18	3.314	+ 0.0122	- 0'007
589	4896	6	Bradley 1895		57'27	2	3'343	+ 0.0164	- 0.002
590	4913	6	12 Libræ		58.47	x	3.468	+ 0.0207	+ 0.002
		5.6	Lacaille 6146						
591	4916	6	Piazzi XIV. 212		60.48	I	3.657	+ 0.0283	- 0.004
592	4923	3	Lupi		58.24 60.41	2	3.414	+ 0.0305	+ 0.008
593	4924	3	Centauri		60.41	2	3.873	+ 0.0348	- 0.003
594		7	Lacaille 6198		60.47		+ 3.621	+ 0.0348	- 0.003
595	••	/	Macanie Orgo	*4 54 25 03	00 47	3	7 3 051	7. 0.0207	

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	W WDD	car and of Year,		Annual	Secular		nnual		No.	for reference.	
No.	Mean N.P.D. 1860,	Year n of Y		Precess.	Variation of	M	roper	ej.	je.	8 t	ich on.
	Jan. I.	ction	of N.	N.P.D.	Precess.in N.P.D.		in .P.D.	Lacaille.	Brisbane,	Fallows or Johnson	Greenwich or Henderson
		Mean Ye Fraction o	No.		N.P.D.	IN	.P.D.	, Z	Bri	Fa	Greenwich or Henderson,
_			_			-				3	
561	134 55 21.85	1800	1	+ 17.67			•	0.			
562	149 41 42'38	57.2	11	17.63	- 0°264 - 0°297	+	0.00	5782 5784	4729 4733	243.J 315	H 31
563	87 46 35.37	59.08	6	17.60	- 0.551	+	0.04	3/04	4/33	243.7 3.3	1124
564	130 30 22.65	60.48	2	17:48	- 0'267	_	0'02	5810	4757	J 316	
565	125 40 43.82	60.20	1	17'44	- 0.263	+	0.64	5820	4766	245.J 317	1126
566	102 38 19.11	58.52	16	17'23	- 0'251	+	0.06		4797		1131
567	173 1 14.70	56.44	5	17.12	- o.668	+	10,0	5802	4790	J 319	H 11
568	99 37 12'94	56.32	4	17.13	- 0.250	_	0'02			J 321	1136
569	169 27 29.67	56.94	5	17'12	- 0.526	+	0'02	5828	4799		
570	107 32 43.29	58.73	10	17'02	- 0.262	+	0.01			••	1139
	mo / 1212 /	.0.0	0.7	16.95	0100		*104		.0.5		****
571	70 5 13.25	58.80	37 z	16.93	- 0'227	+	1.93	5875	4840		1141
573	102 43 28.60	57.09	11	16.84	- 0°345	_	0'02	5075		246.J 324	1143
574	134 35 8.62	90.21	1	16.57	- 0'320	+	0,00	5928	4902	J 328	
575	118 51 35'73	60'42	2	16.43	- 0.500	+	0.04	5949	4925	,,,,,,,	1149
						Ċ					
576	177 33 54.65	58.68	78	16.54	- 1.849	+	0.02	5823	4886	J 327	H 6
577	59 0 45.41	60.37	I	16.13	- 0'232	-	0'14	••	•••	••	1153
578	131 32 24'23	60.48	1	16.09	- 0.336	-	0.01	5993	4968	248.J 332	H 66
579 580	120 12 18.22	60°45 58°56	160	15.01	- 0.406	_	0.83	6014	4990	J 335	H 29
300	150 15 19 55	30.30	100	15.91	— o ⁴ 06		0 03	0017	4991	249.] 330	11 30
581	124 34 4'34	60.21	2	15.64	- 0'340	+	0.56	6063	5029	J 339	1163
582	104 52 0.22	57.73	10	15'46	- 0.313	+	0.01		5055	••	1167
583	62 20 0.22	56.22	1	15.43	- 0.251	-	0,01	••	••	••	1170
584	146 4 29.26	57.46	I	15'43	- 0'412	+	0'20	6082	5057	••	••
585	115 29 53.47	60.71	3	15.39	- 0.333	+	0.03	6102	5060	••	1172
586	116 3 24.60	60.46	1	15.38	- 0'334	+	0'02	6104	5061		1173
587	172 28 8.84	58.58	8	15.32	- 0.010	+	0.02		5046		
588	105 27 26.90	58.17	92	15.19	- 0.322	+	0.06			251.J 343	1177
589	107 12 18.50	57.89	3	15.12	- 0.326	+	0.14		٠.		1178
590	114 4 0	••		15.01	- 0.342	+	0.03	6143			1181
591	123 17 2.99	60.48	1	14.95	- 0'362	+	0.04	6146	5115		1183
592	110 46 51.76	58.24	I	14.83	- 0'342	+	1.68				1186
593	132 33 59.60	60.41	2	14.82	- 0.389	+	0.03	6160	5129	J 344	H 64
594	131 32 20.49	60.47	2	14.78	- 0.388	+	0.01	6170	5133	IJ 346	H 65
595	122 5 16.96	60.47	3	+ 14.52	- o·373			6198			
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	No.	No. in B.A.C.	Magnitude.	Star's Name.	Mean R.A. 1860, Jan. 1.	Mean Year and Fraction of Year.	No. of Obs. of R.A.	Annual Precess. in R.A. for 1860.	Secular Variation of Precess. in R.A.	Annual Proper Motion in R.A.
ı						1800				
ı	596	4947	7	Piazzi XIV. 246	14 55 14.66	58.42	5	+ 3.356	+ 0.0191	+ 0.011
ı	597	4948	5	Lupi π	. 55	60.45	2	4.049	+ 0.0421	- 0.000
ı	598	4950	3.4	20 Libræ		58.62	3	3.200	+ 0.0200	- 0.002
П	599	4969	4.2	43 Boötis ψ		58.44	4	2.283	+ 0.0011	- 0.013
ı	600	47.7	7	Lacaille 6229	14 58 37.60	60.46	1	3.668	+ 0.0268	
ı	601	4970	6	21 Libræν¹	14 58 49.32	57.00	3	3°337	+ 0.0123	- 0.001
		4973	5	Lupi λ		60.37	I	4.007	+ 0.0418	- 0.050
	603	4986	5	Lupi ĸ	15 2 13.09	60'47	2	4'140	+ 0.0475	- 0'002
	604	4995	5.4	24 Libræ (1	15 4 14.82	59.23	13	3.408	+ 0.0121	
	605	4997	7	B.F. 2065	15 4 15	••		3.396	+ 0.0164	••
0	606	5005	3	Trianguli Australis y	15 5 53'72	60.48	1	5.491	+ 0.1392	- 0.018
I	607	5028	5	Lupi μ	15 8 48.55	60'36	1	4.137	+ 0.042	- 0.012
ı	608	5029	7	Lupi	15 8 50			4'138	+ 0'0452	
	609	5032	4.5	2 Lupi	15 9 19'16	60.46	I	3.631	+ 0.0238	- 0.004
ı	610	5034	2	27 Libræ β	15 9 28.64	59'24	13	3'225	+ 0.0118	- 0,000
П										
	611	5037	6	Octantis p		58.77	36	12.488	+ 1.3640	+ 0.048
	612	5046	4	Lupi δ		60.47	1	3,911	+ 0.0340	+ 0.001
	613	5055	6	28 Libræ	1	58.42	5	3.389	+ 0.0120	0.000
	614	5060	5	Lupi φ ²		60.41	I	3.810	+ 0.0296	- 0.004
	615	5089	4	32 Libræ ζ ¹	15 20 21	••	••	3,341	+ 0.0148	+ 0.005
	616	5087	7	Normæ	15 20 23'70	57.57	1	4.428	+ 0.0224	
	617		8		15 20 34.75	59*25	5	3.074	+ 0.0083	
	618	5100	6	34 Libræ ζ				3.372	+ 0.0142	+ 0.004
	619	5104	7	Piazzi XV. 91	15 23 40'52	58-36	2	3'443	+ 0.0162	0,000
	620	5103	5	Trianguli Australis	15 23 57'29	60'46	9	5.388	+ 0'1124	- 0'002
	621	5107	6	Apodis		37.69	6	7.135	+ 0°2725	••
	622	5112	6	35 Libræ ζ				3.328	+ 0.0142	- 0.001
	623	5118	3	Lupi γ		60.48	3	3.971	+ 0.0335	- 0.002
	624	5121	6	36 Libræ		60.15	1	3.619	+ 0.0311	- 0.004
	625	5138	4.2	39 Libræ	15 28 31.80	59.2	2	3.625	+ 0'0210	- 0'002
	626	5139	5	Laupi	15 28 37.75	60.48	1	4.026	+ 0.0346	- 0.039
	627	5143	2	5 Coronæ Borealis a		57.44	4	2.259	+ 0'0024	+ 0.000
	628	5144	7	Normæ	1	57.56	1	4.667	+ 0.0637	
	629	5151	4.2	40 Libræ		60.26	2	3.668	+ 0.0221	- 0.001
	630	5159	6.7	Normæ		57.57	1	+ 4.481	+ 0.0234	
		1	1		1				1	

^{621.} The R.A. has been brought up with Precession alone.

		ear and of Year.	bs. of	Annual	Secular		nnual		No.	for reference	
No.	Mean N.P.D. 1860, Jan. 1.	Mean Year Fraction of Y	of Obs. N.P.D.	Precess. in N.P.D.	Variation of Precess.in N.P.D.	M	roper lotion in .P.D.	Lacaille.	Brisbane,	Fallows or Johnson.	Greenwich or Henderson
_		Frac	No.	for 1860.	N.P.D.		.r.D.	Lac	Bris	Fal	Gre
596	0 , ,	1800	5	+ 14.47	- 0.345	+	0'09				1191
597	136 29 59'63	60.45	2	14.45	- 0.416	+	0'04	6201	5166	J 348	
598	114 43 44'04	58.66	15	14.43	- 0.361	+	0.03	6212	5169	252.J 349	1194
599	62 30 15.21	58.44	4	14.58	-0'271		0,00				1196
600	122 21 55.19	60.26	1	14.26	- 0.385		••	6229			••
601	105 42 40.46	57.00	3	14.25	- 0.348	+	0.03				1197
602	134 44 14.90	60'37	I	14.22	- 0.418	-	0.03	6232	5185	J 350	
603	138 12 6.45	60.47	2	14'04	- 0.437	+	0.06	6246	5205	J 352	
604	109 15 32.49	59.53	13	13.92	- 0.364	+	0.04	٠.		••	1205
605	108 34 27.58	58.45	1	13.92	- 0.363		••				1206
606	158 9 27.77	60.48	1	13.81	- o·587	+	0.03	6255	5227	253.J 353	H 18
607	137 21 23.23	58.44	2	13.63	- 0'449	+	0.08	6296	5260	J 355	
608	137 21 37.99	56.2	1	13.62	- 0.449	+	0.06		5261		
609	119 37 48.78	60.46	ı	13.59	- o 394	+	0.08	6304	5266	J 356	
610	98 51 49.32	58.65	42	13.28	- o.325	+	0,01		5270	254-J 357	1215
611	173 59 11.71	58.80	37	13.45	- 1.357	-	0.03	6216	5240	••	
612	130 8 12.47	60.47	1	13.41	- 0.430	-	0,03	6326	5285	J 358	••
613	107 38 50.02	58.42	5	13.36	- o'375	+	0.08				1221
614	126 21 12.08	60.41	1	13°28	- 0.422	+	0.02	6349	5299	••	1223
615	106 13 30'34	56.12	1	12.87	- o.383	+	0.02	••	••	••	1226
616	142 53 13.49	57'57	1	12.87	- 0.499	+	0.01	6383	5345		
617	90 7 24.23	59.35	5	12.86	- 0.320		••		••		••
618	106 7 34.04	56.21	1	12.21	- o.382	+	0.03		••	••	1744*
619	109 40 58.40	58-36	2	12.64	- o.395	+	0.09	••	••	••	1229
620	155 50 27.73	60.46	9	12.62	- 0.616	+	0.10	6398	5372	J 362	••
621	165 36 53.96	56.52	. 1	12.57	- 0.816	+	0.02	6381	5368	••	••
622	106 22 30.13	56.20	1	12.55	- o.388	+	0'02			••	
623	130 41 32.46	60.48	3	12.20	- 0°458	+	0.02	6422	5380	255.J 363	H 68
624	117 34 19.60	60.13	I	12.48	- 0.418	+	0.09	6430	5385	••	••
625	117 40 4.60	59*39	3	12.31	- 0'423		0.00	6445	5400	Ј 366	1237
626	132 6 14.77	60.48	1	12.30	- 0.469	_	0.09	6443	5399		
627	62 48 42.72	57*37	9	12'30	- 0.297	+	0.02				1238
628	146 27 6.38	57'56	1	12'26	- 0.243	+	0.03	6440	5401		١.,
629	119 18 49.99	60.56	2	12'21	- 0.430	+	0.08	6455	5406	J 367	1239
630	142 55 57.44	57.57	1-	+ 12.14	- 0°525	-	0.04	6451	5408	••	••

			-							
ı						ear,	of	Annual	Secular	Annual
١	-	No. in	Je,		Mean R.A.	f Y	A. A.	Precess.	Variation	Proper
1	No	B.A.C.	ituc	Star's Name.	1860,	N O	of O R.A.	in R.A. for	of Precess, in	Motion
ı			Magnitude.	8	Jan. 1.	Mean Year and Fraction of Year	No.	1860.	R,A,	in R.A.
1			2		_	Fra	Z			
ľ										
1	631	5165		T !!! - 6 - 6 -	h m •	1800				8
1	632	5166	5°6	Lacaille 6464		60.49	2	+ 4.100	+ 0.0180	- 0.003 - 0.018
١	633	5176	5	43 Libræ κ	15 32 0'78	28.19	5	3°533 3°447	+ 0'0157	- 0.003
١	634	31/0	11	43 11012	15 33 55'26	59.29	4	3.138	+ 0.00d1	- 0 003
1	635		8			60.47	5	3.725	+ 0.0530	
١										
1	636	5190	6	44 Libræη		56.58	3	3.367	+ 0.0136	+ 0,001
ı	637	5196	2.3	24 Serpentis a		59.26	7	2'941	+ 0.0065	+ 0.000
1	638	5197	6	Lalande 28670		57*35	I	3.262	+ 0.0185	••
1	639	5200	7	Normæ		57.57	I	4.268	+ 0.0246	
1	640	5209	6	Normæ	15 39 31.48	57.56	1	4.211	+ 0.0213	+ 0.013
١	641	5217	6	Trianguli Australis.	15 40 11	• •		5.393	+ 0.0982	
١	642	5224	5	Trianguli Australis &	15 41 42.63	60.57	2	5.822	+0'1249	- 0.008
ı	643	5227	5	5 Lupi X	15 42 4'21	60.20	4	3.793	+ 0.0239	- 0,001
ı	644	5232	5	1 Scorpii b	15 42 33.89	60.16	5	3'594	+ 0.0184	- 0.002
ı	645	5233	3	Trianguli Australis 3	15 42 50.62	59'12	3	5'239	+ 0.0866	- 0'027
ı										
1	646	5251	6	45 Libræ λ	0 .0	57'99	5	3'478	+ 0'0152	- 0,001
١	647	5250	5	2 Scorpii		57.28	2	3,289	+ 0.0180	- 0.003
1	648	5268		Normæ ξ:		57.52	2	4.303	+ 0.0399	
ı	649	5269	4.2	Lupi ξ ²	1	60'41	5	3.816	+ 0'0204	+ 0.002
١	050	5209		C Lupi	15 47 57'50	60.40	3	3.910	+ 0'0204	- 0.03
١	651	5272	5'4	5 Scorpii ρ	15 48 14.84	59.28	12	3.689	+ 0.0501	- 0'004
	652	5277	6	Normæ	15 49 6.04	57.56	1	4.598	+ 0.0208	+ 0.010
١	653	5289	3	6 Scorpii π	15 50 23.41	57.73	6	3.616	+ 0.0180	- 0.003
	654	5292	4.5	Lupi η	15 50 51.08	60.45	2	3.955	+ 0.0270	- 0.011
	655	5303	2.3	7 Scorpii δ	15 52 3.55	56.68	1	3.232	+0.0160	- 0,001
			6	Des dies ann						
	656	5309	10	Bradley 2031		***		2.976	+ 0.0064	- 0.003
	657		6	Normæ		59.27	7	3.5248	+ 0.0108	
	659	5320	5	Normæ	15 56 36.63	57'57 36'23	8	4.760	+ 0.0336	•••
	660	5323	2	3 Scorpiiβ		60.00	26		+ 0.0145	0'003
	000	5329		о эсограния р	13 3/ 1010	0000	20	3'477	7 00142	- 0'002
	661	533I	4.2	Lupi 6	15 57 24.44	60'42	I	3,921	+ 0'0247	+ 0'004
	662	5337	4	9 Scorpii ω	15 58 37	••		3'499	+ 0'0145	+ 0.001
	663	5339	5.6	Apodis δ	15 59 34'34	36.61	7	8.674	+ 0'3424	
	664	5347	5	Lacaille 6702	15 59 35.82	60'43	2	3.635	+ 0.0173	+ 0.010
	665	5340	6	Apodis 6	15 59 41	1		+ 8.662	+ 0.3408	
		1	1	1	1	1	1	1	5	1

659. The R.A. has been brought up with Precession alone. 663. The R.A. has been brought up with Precession alone.

		and ear.	of.	Annual	Secular	Δ.	nual		No. i	for reference.	
	Mean N.P.D.	Mean Year and Fraction of Year	Obs. P.D.	Precess.	Variation	Pr	oper				<u></u>
No.	1860, Jan. 1.	Y to	of N.P	in N.P.D.	of Precess.in		otion in	11c.	Brisbanc.	Fallows or Johnson.	Greenwich or Henderson.
	Jan. 1.	Aear	No.	for 1860.	N.P.D.		P.D.	Lacaille.	risb	Fallows or ohnson	or
		FF	_					1	, m	m in	5 H
	0,,										
631	134 11 36.75	1800 60'49	2	+ 12.10	- 0.483	+	0'24	6464	5416		
632	113 21 35.15	28.01	6	12.07	-0.417	+	0'02	6479	5423		1241
633	109 13 17'77	59.33	2	11.04	- 0'409	+	0'12			J 368	1243
634	93 32 23.66	59'29	3	11.94	- o'373						
635	121 9 7.18	60.47	5	11.83	- 0'444					••	
636	105 13 24.39	57.36	4	11.77	- c°403	+	0.06			J 369	1249
637	83 7 52.06	58.24	17	11.69	- 0°354	_	0'05		5473		1251
638	114 16 19'07	56.93	2	11.68	-0.427	_	0°14		5464	••	1252
639	143 57 28.08	57*57	1	11.64	- 0°547	-	0.07		5465		
640	142 46 29.13	57.56	1	11.24	- 0.543	+	0.06	6520	5484	••	
					-16.0						
641	154 43 26'94	56.22	I	11.49	- 0'648	,	••	6507	•••	••	••
643	123 11 49.23	60.20	2	11,38	- 0.404	++	0.04	6518	5491	T and	***
644	112 10 10.28	_	6	11.35	- 0'461 - 0'438	+	0.00	6557	5499	J 370	1256
645	152 59 37'32	59.60 59.89	6	11,30	- 0.636	+	0.43	6533	5497	256.J 371	H 23
-43	132 39 37 32	3900	"	11 30	0030		- 43	2333	347/	230.3 3/1	11 23
646	109 44 42.45	57.99	5	11.13	-0.426	+	0.01		••	J 375	1263
647	114 54 20 13	57.28	2	11.13	- 0.440	+	0.01	6574	5521	J 374	1264
648	137 44 42.46	57.52	2	11.00	- 0.230	+	0,01	6580	5529		••
649	123 33 9.00	60.41	5	10.93	- 0.471	+	0.01	6592	5535	••	1271
650	123 33 2.00	60.40	3	10.93	- 0.471	-	0°02		•••	••	1272
651	118 48 5'74	59.28	12	10.01	- 0.456	+	0.03	6601	5538	J 377	1273
652	143 36 52.36	57.56	1	10.84	- o°569	+	0.06	6589	5542		
653	115 42 27 79	57*73	6	10.75	- 0.450	+	0'04	6622		J 378	1279
654	127 59 33.32	60'45	2	10.21	- 0'493	+	0.02	6619	5554	J 380	
655	112 13 11.22	59'22	12	10.62	- 0'442	+	0.01		5560	258.J 381	1281
616	85 10 1000	=60ma			- 0'051						
656	85 10 41.14	56.20	1	10.40	- 0°374		••				•
658	145 48 22.82		5	10.31	-0.299	+	0.07	6650	5577		••
659	134 47 20'04	60'37	1	10.58	- 0.235	_	0.05	6664	5581	J 382	
660	109 25 8:04		77	10'23	-0'441	+	0'02		3302	260.J 385	1285
			"								
661	126 25 0'15	1	1	10'22	- 0.496	+	0.08	6678	5591	J 384	1287
662	110 17 11'52		I	10.13	- 0'445	+	0.01			J 386	1289
663	168 20 3.15		2	10.06	- 1.099		0.00	6623	5584	••	••
664	115 56 52.23		2	10.09	- 0.463	+	0.07	6702	5605	••	1291
665	168 18 23.65	56.22	2	+ 10.02	- 1.097	+	0:03	6528.	5586		**
1									-		

No.	No. in B.A.C.	Magnitude.	Star's Name,	Mean R.A. 1860, Jan. 1.	Mean Year and Fraction of Year.	No. of Obs. of R.A.	Annual Precess. in R.A. for 1860.	Secular Variation of Precess. in R.A.	Annual Proper Motion in R.A.
				h m s					
666	5374	6	Lacaille 6725	16 2 20'57	1800 60.47	2	+ 3.219	+ 0.0188	- 0.013
667	5382	. 4	14 Scorpii v2	16 3 51.75	60.10	1	3.477	+ 0.0136	- 0'002
668	5384	6	Normæ	16 4 16.97	38.02	5	4.912	+ 0.0568	
669	5395	6	Piazzi XVI. 10	16 5 27.04	58-31	I	3.23	+ 0.0143	- 0.003
670		9		16 6 18.83	59.24	6	3.357	+ 0.0114	
671	5414	3	r Ophiuchi δ	16 7 0'72	60.09	9	3.141	+ 0.0082	- o.ooe
672	5423	7	Piazzi XVI. 28	16 8 48.48	58.27	4	3'497	+ 0.0132	- 0.000
673	5425	5	Normæ γ ²	16 9 22.77	60.34	8	4.474	+ 0.0380	- 0.018
674	5412	6.7	Brisbane 5607	16 9 40.31	58.44	22	20.372	+ 2.4765	+ 0.018
675	5435	6	Lacaille 6788	16 10 41.71	60.43	I	3.774	+ 0.0182	+ 0.002
	1		1						
676	5436	7	Piazzi XVI. 39	16 10 56.06	58.30	1	3.205	+ 0.0133	+ 0.004
677	5439	5	Apodis γ		56.23	3	8.970	+ 0'3291	- o [.] 045
678	••	7	Lacaille 6796		60.22	I	3.844	+ 0.0100	••
679 680	5447	3.4	20 Scorpii σ		59.08	6	3.635	+ 0.0126	- 0.003
080	••	7.8	Lacaille 6815	10 14 50.30	60.29	I	3.847	+ 0.0199	
68 r	5467	5	4 Ophiuchiψ	16 15 54.99	58.26	3	3.202	+ 0.0158	- 0.004
682	••	10	•••••	16 16 6.16	59.25	6	3*425	+ 0.0119	1.
683	5485	6.7	Aræ	16 18 5			4.962	+ 0.0210	
684	5498	1'2	21 Scorpii α	16 20 49.69	59.63	41	3.667	+ 0.0121	- 0.001
685	5508	-4	Normæ a	16 22 14.33	60.29	5	3.905	+ 0.0182	- 0.003
686	5516	5	8 Ophiuchi φ	16 23 7.78	59'25	7	3'429	+ 0.0110	- 0.001
687	5510	5	Apodis β		56.66	3	8.446	+ 0'2471	- 0.081
688	5536	5	Trian. Australis nº	16 26 58.72	60.48	2	6.112	+ 0.0922	1 111
689	5538	5	Lacaille 6890	16 27 10.04	60.32	6	3.931	+ 0.0131	- 0.003
690	5539	3.4	23 Scorpii τ	16 27 10.35	28.10	18	3.423	+ 0.012	- 0.001
691	5565	.6	Trian. Australis η ²	16 32 30'58	40.22	2	6.118	+ 0.0862	
692	5579	5	Bradley 2114	16 33 28.95	56.45	1	3.463	+ 0.0102	- 0.004
693	5578	2	Trian. Australis a		59 77	11	6.272	+ 0.0920	0,000
694	5588	6.7	Lacaille 6950		60',7	5	3.845	+ 0.0161	
695	•••	9.10	•••••		59.28	8	3.262	+ 0.0118	0
			1			-			
696	5604	3.5	40 Herculis ζ		••		2.296	+ 0.0033	- 0.034
697	5609	4.2	Aræ η		59.60	3	2.138	+ 0.0459	0,000
698	5616	6.7	41 Herculis		••	••	2.932	+ 0.002	- 0.012
699	5614	. 6	25 Scorpii		**		3.663	+ 0'0127	+ 0.001
700	••	-9	••••••	10 40 15'16	59*25	5	+ 3.22	+ 0.0115	- ••

668. The R.A. has been brought up with Precession alone. 691. The R.A. has been brought up with Precession alone.

F		and ear.	Jo .	Annual	Secular	I A	nnual		No	o. for reference	e.
No	Mean N P.D.	ear of Y	of Obs.	Precess.	Variation	ı F	roper	-	1	1	1-8 -1
No	1860, Jan. 1.	n Y		N.P.D.	of Precess, in	1	Iotion in	lle,	ane.	ws son.	wic
		Mean Year and Fraction of Year	No.	for 1860.	N.P.D.	N	I.P.D.	Lacaille.	Brisbane.	Fallows or ohnson.	Greenwich or Henderson,
-			-			-		-			<u> Б</u>
	011	1800									7
666	119 2 34.79		2	+ 9.85	- 0.477	+	0.10	6725	5629		
667	109 5 36.46	1	1	9.73	- 0.448	+	0.03			262.J 391	1295
668	147 33 3'34		1	9.40	- 0.630	+	0.12	6722	5634		
669	111 2 20.86		I	9.61	- 0.455	+	0.02	••			1300
670	103 38 1.81	59*24	6	9.55	- 0.435		••				••
671	93 19 50.78	59'45	24	9*49	- 0.408	+	0.13			263.J 393	1304
672	109 45 10.45	58.27	6	9.32	- 0.455	+	0.19	••			1306
673	139 48 26.47	60°34	8	9.31	- 0°582	+	0.06	6764	5675	J 396	
674	176 4 52.81	58.44	22	9'29	- 2.637		0.00		5607	J 388	••
675	120 33 46.49	60.43	1	9.51	- 0'493	+	0.09	6788	5685		1309
676	109 52 21'02	58'30	2	9,19	- 0'458	+	0.17				1310
677	168 34 23.78	58.26	8	9,10	- 1.170	+	0.02	6727	5678	J 397	
678	122 54 0'30	60.22	1	9.06	- 0.204			6796			
679	115 15 11.58	59.38	14	9.05	- 0.477	_	0.01	6799	5703	J 399	1311
680	122 52 1.63	60.29	1	8.87	- o·507			6815			
681											-
682	109 42 21.71	58.26	4	8.80	- o.463	+	0.06	• • •		265.J 400	1318
683	106 22 31.64	59.26	1	8.79	-0.453	1 .	••		••	••	
684	147 26 21.21	56.2	139	8.41	- 0.657 - 0.489		0.12	6827 6853	5728	06= T	
685	124 23 42'76	60.52	4	8.30	- 0.222		0.08	6859	5743 5747	267.J 404 J 405	1330
	124 23 42 /0	00 23	-	. 30	322	6.	000	0039	3/4/) 405	1330
686	106 18 14.25	59*25	7	8-23	- 0'460	+	0.03			268.J 406	1337
687	167 12 55'37	58.22	7	8.22	- 1.127	+	0,31	6817	5742		
688	158 0 37.63	60.48	2	7.91	-0.823		0.00	6865	5756	••	
689	124 57 45.75	60.32	6	7.90	- 0.230	-	0.03	6890	5767	J 408	••
690	117 55 17.66	28.08	20	7'90	- 0.203	+	0'02	6897	5768	269.J 409	1343
691	157 50 8.85	56.52	2	7.48	- 0.831	_	0.01	6900	5797		
692	107 28 2.89	56.45	1	7'39	- 0'473		10'0		3/9/	271. [413	
693	158 45 49.57	59.44	21	7.36	- 0.824			6911	5804	270. 412	H 17
694	121 50 8.64	60.47	5	7:30	- 0.26			6950			1352
695	111 29 58.16	59.28	5	7.30	-0.487						
696	58 8 29.25	59'33	I	7.19	- 0.316		0.45				1355
697	148 47 7.45	60.01	5	7.05		•			5828	J 414	••
698	83 38 23.78	56.52	I	7'01		+ (0.16	6981			1356
700	111 41 17.76	56.50	I	7'00	- 0'504 - 0'493		- 11	0901			
/00	11. 41 1/70	59.26	4 -	+ 6.84	- 5 493				••	••	

No.	No. in B.A.C.	Magnitude.	Star's Name,	Mean R.A. 1860, Jan. 1.	Mean Year and Fraction of Year.	No, of Obs. of R.A.	Annual Precess. in R.A. for 1860.	Secular Variation of Precess, in R.A.	Annual Proper Motion in R.A.
			1	h m .	1800				8
7.01	5632	3	26 Scorpii ε		60.24	4	+ 3.922	+ 0.0165	- 0.021
702		6			59*27	6	3.240	+ 0,0111	••
703	5638	3	Scorpii		60.48	3	4.020	+ 0.0185	- 0.007
704	5651	4.2	Scorpii		60'36	1	4.516	+ 0.0207	+ 0,003
705	5661	3	Scorpii ζ²		60.25	3	4.516	+ 0.0206	- 0'020
706	5683	3°4	Aræ ζ		60.25	5	4.938	+ 0.0324	- 0.013
707	5697	4	Aræ, ε ¹		60.49	3	4.757	+ 0.0304	- 0,008
708	5708	3.4	27 Ophiuchi K		59.08	6	2.856	+ 0.0044	- 0.053
709	5711	6	26 Ophiuchi	16 51 35		••	3.665	+ 0.0100	+ 0.001
710	5713	5	Aræ ε²	16 51 58.23	60.15	5	4.770	+ 0.0292	- 0.006
711		8	*	16 53 10.88	59*25	3	3°745	+ 0'0117	
712	5723	6	29 Ophiuchi		••		3.202	+ 0,0080	- 0.001
713	5724	6	30 Ophiuchi	16 53 (40'35)			3.165	+ 0.0000	+ 0.001
714		7.8		16 55 12.14	59.26	4	3.756	+ 0'0115	
715	5735	5	Lacaille 7109	16 55 36.98	60.41	I	3.936	+ 0.0132	- 0'007
									1
716	••	8.9	**************	16 57 52.22	59*27	3	3.759	+ 0,0111	
717	5760	6	Piazzi XVI. 289	16 58 19	• •	••	3,088	+ 0.0024	
718	••	10	••••••	16 58 46.57	59.36	4	3.426	+ 0.0100	
719	••	8		16 59 32.34	59.20	4	3.756	+ 0.0108	••
720	5778	3.4	Scorpii η	17 2 7.86	60'47	16	4.581	+ 0.0140	- 0.003
721	5781	2.3	35 Ophiuchi n	17 2 21			3.432	+ 0.0074	+ 0,001
722	5789	7.8	Ophiuchi				3.729	+ 0,0100	
723		10		17 5 18.09	59'27	5	3.818	+ 0,0100	
724	5794	6	Lacaille 7088	17 5 22.52	56.67	2	11,010	+ 0'2678	+ 0.011
725		9		17 5 45'14	59.31	4	3.813	+0.0102	
726	5803	5.6	Apodis		56.66	2	6.640	+ 0.0961	+ 0.002
727	5808	5	36 Ophiuchi A	17 6 44.60	56.86	8	3.418	+ 0.0094	- 0.032
728	5806	6	Aræ	17 6 50 16	57.26	1	5.584	+0.0322	+0.012
729	5809	6.7	Lacaille 7191	. 55 6	59.36	4	3.824	+ 0.0104	••
730	5817	5.6	Lacaille 7202	17 7 57 44	60.40	5	3.905	+ 0,0110	- 0.002
731	5821	Var.	64 Herculis α ¹	17 8 15.91	58.44	2	2.734	+ 0.0032	- 0.003
732	5820	7	Lacaille 7212		59.44	4	3.824	+ 0.0105	
733	5826	7	Lacaille 7222		59.43	4	3.817	+ 0.0000	1 9.1
734	5836	6	Aræ	17 10 51.89	57'57	I	5.12	+ 0.0275	
735		7		17 12 22.63	59°37	4	+ 3.871	+ 0.0100	
	1			1					1

		and Year.	Jo .	Annual	Secular	Annual		No.	for reference.	
	Mean N.P.D.	of	Obs.	Precess.	Variation	Proper		(£ 5
No.	1860. Jan. 1.	Mean Year : Fraction of Y	P Z	in N.P.D.	of Precess.in	Motion	le.	me,	Fallows or Johnson	Greenwich or Henderson
1.4	Jan. 1.	fear ract	No.	for 1860.	N.P.D.	N.P.D.	Lacaille.	Brisbane,	Fallows or Johnson	olende
		~ F4	z				Ľ.	ğ		E G
	0,,									
701	124 2 6.25	1800	4	+ 6.77	- 0.241	+ 0.33	6996	5851	272.] 415	1359
702	111 36 8.30	59.28	7	6.76	- 0.493					••
703	127 48 9.19	60.48	3	6.66	- 0.260	0,00	7006	5860	J 416	H 73
704	132 7 26.31	60.36	I	6.2	- 0.286	- 0.04	7016	5873		
705	132 7 0.45	60.25	3	6.47	- 0.282	+ 0'20	7025	5881		••
706	145 45 48.75	59.74	5	6.58	- 0.687	+ 0.08	7034	5892	J 419	
707	142 56 21.99	60.49	3	6.16	- 0.663	0,00	7050	5900	J 421	
708	80 24 15.10	59.07	16	5'94	- 0'400	- 0.03	,			1371
709	114 46 15.11	57.20	1	5.90	- 0.213	+ 0'14	7085			1373
710	143 1 17.41	59.67	7	5.87	- 0.668	+ 0.16	7073	5921		••
1	-43/ 1-	33 -7	1	3 - 7				37		
711	117 43 42.99	59.25	4	5.77	- 0.256	••		••	••	••
712	108 40 33.00	56.20	1	5.72	- 0.493	- 0,01	••	••		1917*
713	94 0 31.54	60.62	1	5.45	- 0.443	+ 0.08	••		••	••
714	118 3 9.25	59.26	4	5.60	- 0.228		•••	•••	••	••
715	123 55 17.27	60.41	1	5.26	- 0.224	+ 0.02	7109	5950	J 422	1379
716	118 4 5'37	59*27	4	5*38	- 0.230					
717	90 41 47.67	58.26	2	2.33	- 0.436					
718	117 56 4.93	59°34	5	2.30	- o.230					
719	117 54 49.89	59.50	4	5.53	- o'53I					
720	133 2 58.80	60.24	17	2.01	- 0.607	+ 0'26	7155	5987	J 424	H 61
			1		,					
721	105 32 49.86	60.62	2	4.99	- 0.484	- 0.13		•••	276.J 425	1384
722	116 51 47.80	56.2	I	4.90	- 0.253	••	7165	••	••	••
723	119 52 44.65	59.27	5	4.75	- 0.243		••			••
724	170 43 0.18	58.26	6	4.74	- 1.263	+ 0.10	7088	5982		••
725	119 41 24.77	59.31	4	4.41	- 0.243		•••	••		••
726	159 58 6.04	57.61	5	4.64	- 0°944	+ 0.06	7156	5999		
727	116 23 33.58	56.90	9	4.62	- 0.230	+ 1.15	7192		J 426	1390
728	149 32 8.63	57.56	I	4.61	- 0.752	+ 0.11	7170	6006		
729	120 2 41.08	59.36	4	4.61	- 0.242		7191			••
730	122 30 1.56	60.40	5	4.21	- 0.556	- 0.10	7202		••	1394
										100
731	75 26 49.41	59.21	5	4*49	- 0.391	-, 0.04		6026	•••	1395
732	120 0 17.71	59'44	4	4.48	- o.246	9	7212	**	7 1	
733	119 43 3.05	59'43	4	4*39	- 0.242		7222	600.5		
734	147 51 49'91	57'57	I	4.52	- 0.436	- 0.02	7213	6035		
735	121 26 5.25	59.38	4	+ 4'14	- 0.224				1 1 1	111
									-	

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No.	No. in B.A.C.	Magnitude,	Mean R.A. 1860, Jan. 1.	Mean year and Fraction of year,	No. of Obs. of R.A.	Annual Precess. in R.A. for 1860.	Secular Variation of Precess. in R.A.	Annual Proper Motion in R.A.
-		_			_	~		
			h m s	1800	10			
736		7.8	17 13 12.77	59.21	4	+ 3.872	+ 0.0099	0.40
737	5851	3.4	42 Ophiuchi θ 17 13 24.84	59.64	23	3.679	+ 0.0081	- 0.003
738	5850	3	Aræ γ 17 13 37.09	60.57	3	5.031	+ 0.0241	- 0.004
739	5852	3	Aræ β 17 13 40'30	60.38	1	4.970	+ 0.0531	+ 0.005
740	5855	. 6	Scorpii	11		4.338	+ 0.0146	11
741	5857	6	43 Ophiuchi 17 14 33'10	57.36	1	3.769	+ 0.0087	+ 0.003
742	5859	5	Aræ 17 15 5'47	60'14	3	4.663	+ 0.0185	
743	١.	7.8		59'29	5	3.920	+ 0.0003	
744	5876	5	44 Ophiuchi b 17 17 49'42	59.2	3	3.658	+ 0.0074	- 0.002
745	5881	5	45 Ophiuchi d 17 18 25'04	59.60	16	3.823	+ 0.0082	- 0.005
	.0		A 20 -0.11	24244			+ 0.0273	
746	5877	4	Aræ	34°54	5	5°402	+ 0.002/3	****
747	5889	. 7	Serpentis	57'54		5.084	+ 0.0210	
749	3009	7.8		59*29	6	3'923	+ 0.0000	-
750	5899	3	Aræ a 17 21 1'50	60.53	4	4.629	+ 0.0124	- 0.002
/30	3099	3	Ma	0023	1	4 029	1.00.34	- 0 003
751	5901	3.4	34 Scorpii v 17 21 14.90	60.52	5	4.072	+ 0.0100	- 0.007
752	••	6.7	Lacaille 7330 17 23 8.41	59'32	4	3.968	+ 0.0084	
753	١.	9		59.26	4	3.972	+ 0.0082	
754	5915	3	35 Scorpii λ 17 24 6·20	60*35	7	4.067	+ 0.0003	-0.010
755	5925	5.6	Scorpii 17 25 33'91	58.25	2	3.014	+ 0'0079	01 100
756	****	6	Aræπ 17 26 36 58	57°54	1	4.920	+ 0.0163	0110
757	5930	3	Scorpii 9 17 27 15 81	59.61	2	4'302	+ 0.0103	+ 0.001
758	5937	3,5	23 Draconis \(\beta \) 17 27 16.31	56.49	1	1.323	+ 0.0021	- 0.003
759	5934	6/	Apodis 17 27 31	30 49		7.181	+ 0.0200	
760	5941	. 2	55 Ophiuchi a 17 28 26 22	60'17	11	2'774	+ 0.0031	+ 0.004
1	334		33 -1	· ·		1		
761		9,10	17 29 24 52	59*46	5	4.012	+ 0.0028	1, 254
762	5949	4*3	55 Serpentis \$ 17 29 34			3°435	+ 0.0048	- 0.004
763	5960	7	Lacaille 7382 17 30 53.86	60'49	2	3,002	+ 0.0068	+ 0.000
764	••	7	17 31 13'04	59'26	4	4.020	+ 0.0074	••
765	5964	7	Piazzi XVII. 167 17 31 51'31	60.36	I	3*906	+ 0.0062	- 0.053
766	5936	6	Brisbane 6058 17 32 22.69	57.06	16	35*379	+ 1.9126	-0'107
767	5970	3	Scorpii 17 32 48.37	60.31	3	4.142	+ 0.0048	0,000
768	5974	6	Lacaille 7397 17 33 20 86	59'34	4	4.068	+ 0.0072	- 0.002
769	5976	5.4	56 Serpentis 0 17 33 32		1.6	3'374	+ 0.0042	- 0.008
770		8	17 34 34 83	59.28	4	+ 4.062	+ 0.0040	
	1	1				1	1	

746. The R.A. has been brought up with Precession alone.

1		and /ear.	Jo	Annual	Secular	Annual	1	No.	for reference	
	Mean N.P.D.	Mean Year and Fraction of Year	Obs.	Precess.	Variation	Proper		1	1	14 4
No.	1860. Jan. 1.	Mean Year raction of Y	of Obe	in N.P.D.	of Precess,in	Motion .	le ,	ne,	Fallows or Johnson,	Greenwich or Henderson.
100	J 10	Aear	No.	for 1860.	N.P.D	N.P.D.	Lacaille,	Brisbane,	Fallows or Johnson	o
		~ E					H	Bi		S H
		1800			#c -				, , , , ,	
736	121 26 30.08	59.40	16	+ 4.07	- 0.222			••	3	3.
737	114 51 20.39	58.95	53	4.02	- 0.227	- 0'02	7254	••	J 432	1405
738	146 14 24 34	60.55	4	4.03	- 0.720	0.00	7233	6048	278.J 429	H 39
739	145 23 30.16	56.2	1	4'03	- 0'712	+ 0.03	7237	6050	J 430	H 42
740	134 1 23.42	56.20	2	3,99	- 0.621	+ 0.10	7247	6051	••	••
741	118 0 9.33	57.36	I	3.95	- 0.241	0,00	7260	6059		1406
742	140 30 0.34	60.14	3	3,01	- 0.669	0.00	7253	6060		
743	122 50 10.81	59.29	5	3.41	- o.263	9= ()		••	••	
744	114 2 33.40	59.2	3	3.67	- 0.226	+ 0'12	7289	••	•• 1	1407
745	119 44 9.44	58-87	29	3.62	- 0.220	+ 0.18	7293	0 19-0	J 435 ·	1409
746	150 33 39.13	59.64	1	3.62	- o'777	+ 0.13	7271	6081	J 434-	-••
747	102 23 5.26	56.23	1.	. 3.22	- 0.484	1: 013	/2/2		J +3+	
748	146 48 12.97	57.24	1	3°53	- 0.431		7281			
749	155 23 1.50	59*29	6	3,20	- 0°565					
750	139 45 35.07	60'23	4	3,39	- o.667	+ 0.10	7301	6094	279. [436	H 49
, ,	33 13 33 7						, ,	1	773 13	
751	127 10 45.78	60.2	5	3.38	- 0.284	+ 0.04	7313	6098	J 437 ·	• 4
752	124 10 7.81	59:30	3	3.55	- 0.223	•••	•••	•••	••	• •
753	124 16 27.18	59.26	4	3.14	- o 573		••	••		••
754	126 59 49'01	60.32	7	3.13	-0.284	+ 0'02	7336	6116	280.] 439	H 75
755	122 28 48.95	58.25	2	3.00	- o 566		• •	6125		1414
756	144 24 3.18	56.85	3	2.01	- 0'711	+ 0'22	7342	6127		:
757	132 54 13.53	59'62	I	2.86	- 0'622	+ 0.03	7351	6134	281.J 440.	H 62
758	37 35 27 27	56.49	ī	- 2.85	- 0'197	0,00	/33-	•••		1415
759	162 8 36.82	56.21	1	2.83	- 1.038	10	7317		\$	-4-5
760	77 20 5.96	59.76	20	2.75	- 0'402	+ 0'20		6145	4.170	1416
	,,									
761	125 21 53.84	59'46	5	2.67	- 0'579	51.00	••	••	≥ • • = t	
762	105 18 23.97	60.68	I	2.66	-0'498	+ 0.04	• • •	•••	282.J 441	1420
763	122 7 3.03	60.49	2	2*54	- 0°566	+ 0.06	7382	6156		1422
764	125 33 52.00	59.26	4.	-2.22	- 0.281	• • • •	••		12.0	1.81
765	122 8 3.41	60.36	I	2.46	0'566	+ 0.04	-••	6163	- • • · ·	1424
766	177 38 51.45	57.77	25	2.41	- 5'124	+ 0.11		6058	J 433	: • •
767	128 57 10.48	59.36	4	2°37	- 0.601	+ 0.01	7393	6169	J 444	H.71
768	126 52 11'37	59.34	4	2*33	0.590	+ 0.10	7397	6174	04 121	-
769	102 47 47.85	60.43	E.	-2.31	- 0.490	+ 0.04	••		J 445	1426
770	126 42 6.70	59.28	4	+ 2'23	- 0.590	£				200
							-	1		
										1000

	No.	No. in B.A.C.	Magnitude.	Star's Name.	Mean R.A. 1860, Jan. 1.	Mean Year and Fraction of Year	No. of Obs. of R.A.	Annual Precess. in R.A. for 1860.	Secular Variation of Precess. in R.A.	Annual Proper Motion in R.A.
1					h m s	1800				
ı	771	5998	- 6	Aræ	17 36 58-33	57.54	1	+4.996	+ 0.0123	+ 0.016
ı	772	6004	3.4	Scorpii 61	17 37 47.67	60.19	3	4.191	+ 0.0068	- 0.003
ı	773	6008	5	3 Sagittarii	17 38 44.97	59.34	8	3'773	+ 0.0049	- 0,010
ı	774	6010	6	Pavonis	17 39 19.46	40.49	ı	5.986	+ 0.0188	
ı	775	6016	. 5.6	Lacaille 7451	17 40 4.95	59.65	1	3.893	+ 0.002	- 0.001
ı	776	6018	- 4	Lacaille 7449	17 40 19.63	59.28	1	4.076	+ 0.0024	- 0.003
ı	777	••	9.10	• • • • • • • • • • • • • • • • • • • •	17 40 23'42	59.32	5	4.093	+ 0.0029	
ı	778	6019	5.6	Scorpii t2	17 40 23.87	35.62	2	4.191	+ 0.0062	
ı	779	6021	3.4	86 Herculis μ	17 40 58.77	60.27	6	2,369	+ 0.0026	- 0.026
ı	780	••	7	••••	17 41 40.49	59*27	5	4.104	+ 0.0026	11.
ı	781		7	***********	17 44 44.88	59'40	5	4.136	+ 0'0049	
ı	782	6049	6	Piazzi XVII. 265.	17 45 16	32 11		3,358	+ 0.0031	- 0.003
ı	783		7.8	***************************************	17 46 5.42	59'46	5	4.139	+ 0'0047	
ı	784	5959	6	Octantis σ		58.05	27	109.007	+ 8.5420	+ 0.104
ı	785	6074	5	Lacaille 7521	17 50 5.88	59.23	11	3.821	+ 0.0033	+ 0.003
ı				* **						12 / Th
ı	786	••	7	Lacaille 7520	17 50 35.92	59°27	4	4.163	+ 0.0032	**
ı	787		8	. C	17 50 47.51	59.26	4	4.179	+ 0.0032	••
ı	788	6077	- 5	4 Sagittarii		59.60	2	3.661	+ 0.0028	0.000
ı	789	6091	2.3	33 Draconis y Lacaille 7534	17 54 46 75	56.49	I	1,391	+ 0.0031	0 7
ı	790	••	7	Dacame /534	-/ 34 40 /3	39 34	4	4 219	1 0 002/	••
	791	6100	-5	Pavonis π	17 55 5'99	60.39	2	5'773	+ 0.0048	- 0.009
ı	792		8	• • • • • • • • • • • • • • • • • • • •	17 55 19.63	59'32	4	4.511	+ 0.0056	
ı	793	6104	-5	69 Ophiuchi τ	17 55 27			3*264	+ 0.0055	+ 0.000
ı	794	6105	4	Aræ θ	17 55 43.92	60.63	2	4.671	+ 0.0058	- 0.002
ı	795	6107	4	Sagittarii 71	17 56 4.64	58.48	4	3.831	+ 0.0022	+ 0.011
ı	796	6112	6	Coronæ Australis	17 56 42.60	37'92	6	4.337	+ 0.0023	
ı	797	6115	3.4	το Sagittarii γ ²		59.57	4	3.857	+ 0'0021	- 0.004
ı	798	6127	.5	Piazzi XVII. 359		58.63	1	3.797	+0.0014	- 0,001
ı	799	6148	5	Lacaille 7577	18 2 20			5.706	- 0,0010	••
1	800		.8		18 2 32.44	59.30	4	4.265	+ 0.0002	- ;•
	0.	6-1	,	Ostoralia	*8	46:		T 0100	otenas	
	801 802	6156	6	Octantis Telescopii	18 4 3.82	56.11	5	5.028	- 0°0203	+ 0.014
	802	6167	-	13 Sagittarii μ		59.06	29	3.288	+ 0.0010	- 0'004
	804	6179	4	13 Sagittarii µ				3'579	+ 0.0008	- 0.004
	805	6180	6	16 Sagittarii		1 1	••	+ 3.24	+ 0.0008	+ 0.006
	305	3100			0 33	20		1 3 3/0		

^{774.} The R.A. has been brought up with Precession alone. 778. The R.A. has been brought up with Precession alone. 796. The R.A. has been brought up with Precession alone.

		ear and of Year.	s. of	Annual	Secular		nnual		No.	for reference.	
No.	Mean N.P.D. 1860,	Year on of J	Obs. P.D.	Precess.	Variation of		otion	-	1 0	s d	는 다
1.0.	Jan. 1.	an	o Z	N.P.D.	Precess.in		in	ille	ban	Fallows or Johnson	or derse
		Mean Ye Fraction o	No.	for 1860.	N.P.D.	N.	.P.D.	Lacaille,	Brisbane,	Fal Joh	Greenwich or Henderson.
						_					
- 3	0 , .	1800		•			•				
771	145 20 41.03	57°54	1	+ 2.01	- 0.726	+	0.06	7413	6193	••	
772	130 4 4.21	60,19	3	1.94	- 0.910	-	0.03	7425	6198	284.J 447	H 69
773	117 46 23'35	59.02	9	1.86	- o.24a	+	0.03	7440		J 448	1431
774	155 26 22.09	56.20	1	1.80	- 0.870	+	0.02	7416	6201	••	•••
775	121 39 2,42	59.65	1	1.4	- o·567	+	0.02.	7451			••
776	126 59 36.80	59.28	1	1.45	- o.233	-	0.02	7449	6214	J 449	••
777	127 28 52.83	59.32	5	1.45	- 0.296		• •		••	••	••
778	130 2 24.96	56.20	I	1.41	- 0.611	+	0.02	7447	6213	••	••
779	62 11 41'96	60°23	8	1.66	- 0'345	+	0.4			••	1433
780	127 45 47.54	59.27	5	1,61	- o.298		• •			••	••
781	128 35 12.00	59'40	3	1.34	- 0.603						
782	100 51 40 91	56.2	1	1'29	- 0.485	+	0.18				1437
783	128 38 47.87	59.46	5	1.55	- 0.603						
784	179 16 40.89	57.52	86	1.04	-15.880		0.00		5912	275.J 423	H 3
785	120 14 3.07	59.53	11	0.84	- o'561	+	0.08	7521		J 450	1439
786				0.							
787	129 13 47.66	59.27	4	0.83	- 0.607		••			••	
788	129 39 5'42	59.26	4	0.81	- 0.609		0.04	7526	•••	Lace	
789	38 29 26.04 38 29 26.04	58.57	3	0.28	- 0°534 - 0°203	++	0.04		6204	J 451	1440
790	130 38 9.40	59.34	5	0'46	- 0.615	T			6294	200	1445
/30	130 30 940	37 34	3	040	- 0015		••				••
79I	153 40 2.02	60.39	2	0.43	- 0.842	+	0.19	7527	6291	••	
792	130 26 52.04	59.32	4	0.41	- 0.614		••	••		••	
793	98 10 34.29	56.2	1	0.40	- 0.476	-	0.03			J 455	1451
794	140 5 42'44	60.24	3	0°37	- o.e81	+	0.04	7535	6296	287.J 454	••
795	119 34 54.93	58.48	4	0.34	- o.22a	+	0.08	7552	•••	J 456	1453
796	133 25 37.39	56.21	1	0°29	- o°633	+	0.13	7550	6302		
797	120 25 16.24	59.48	5	0.58	- 0.263	+	0.53	7557	•••	J 457	1455
798	118 28 5.85	58.63	1	+ 0.02	- o'554	+	0.11	7579		J 458	1458
799	153 5 6.85	60.43	1	- 0'20	- 0.832	+	0.02	7577	6329		•••
800	131 44 28.41	59.30	4	0'22	- 0.622						
801	170 17 13:29	26.11	5	0.36	- 1.287	-	0.01	7525	6324		••
802	146 3 39.91	57.56	1	0.42	- 0.738	+	0.08	7608	6347	.007.6	
803	111 5 29.02	58.79	72	0.47	- 0.23	+	0.01			288.J 460	1464
804	110 45 57.18	56.52	I	0.60	- 0.221	+	0.02			••	1466
805	110 25 32.21	56.2	1	- 0.60	- 0'520	+	0.03		••	••	2013*

Ņo.	No. is B.A.C	Magnitude.	Star's Name.	Mean R.A. 1860, Jan. 1.	Mean Year and Fraction of Year.	No. of Obs. of R.A.	Annual Precess, in R.A. for 1860.	Secular Variation of Precess. in R.A.	Annual Proper Motion in R,A.
				h m s	1800				
806		101		18 7 10'06	59.20	5	+ 4'297	- 0.0002	••
807		8.9		18 7 14'21	59.50	5	4'286	- 0.0002	
808	6186	4	Sagittarii η	18 8 9.18	60.20	4	4.072	0'0003	- 0.016
809		. 6	Lacaille 7644	18 8 39.87	59'29	4	4.289	- 0.0009	••
810	••	10	•••••	18 11 1.60	59.45	4	4.319	- 0'0017	••
811	6209	3.4	19 Sagittarii δ	18 12 1.86	59.15	8	3.839	- 0'0005	- 0,001
812		8		18 12 17.84	59.29	4	4.317	- 0.0050	
813	6205	- 6	Lacaille 7562	18 13 25.60	56.13	5	12.452	- 0.0900	
814	6228	6	Lacaille 7680	18 14 7.00	59.05	7	4.369	- 0.0026	- 0.007
815	6233	3.5	20 Sagittarii ε	18 14 52.70	57.51	19	3.982	- 0.0012	- 0.004
816	6240	4	Telesasii	-0 -60	6-16-		******	01000	- 0'0"4
817	6248	. 6	Telescopii a		60.62	1	4*455	- 0.0038	- 0.014
818	6250	4.2	Telescopii ζ		57.26	- 3	5.123	- 0.002	+ 0.012
819		9	••••••••	18 18 21.40	29,30	6	4.340	- 0.0035	••
820		6	Lacaille 7711	18 19 3.67	59.58	4	4.356	- 0.0041	
1				, 5 .,	39.20	7	+ 33-		
821	6263	- 3	22 Sagittarii \	18 19 19.83	59.96	10	3.404	0'0012	0.002
822	6275	7	Piazzi XVIII. 72	18 20 49.83	59.62	2	3'941	- 0'0024	••
823	6278	5	Telescopii δ1	18 21 23.11	60.40	1	4.421	- 0.0024	- 0°002
824	1	8		18 21 48.08	59.38	5	4°388	- 0.0020	••
825	6285	. 5.6	Lacaille 7746	18 21 53.67	60.28	1	3,939	- 0.0026	- 0'002
826	6290	. 6	60 Serpentis c	18 22 24			3'120	+ 0.0002	0.000
827	6291	6	Telescopii		57'70	I	4.836	- 0.0082	
828	6296	5	Coronæ Australis 0		60'41	1	4.287	- 0.0049	- 0.010
829	6307	6	61 Serpentis e				3.097		+ 0'002
830	6305	5.6	Lacaille 7761	18 24 46.65	60'20	4	3'939	- 0.0032	0.000
831	6312	6	24 Sagittarii	- 1	57.28	I	3.667		+ 0.002
832	6315	4	Pavonis ζ		60.22	2	7.050	- o.o386	- 0.004
833	6008	7		18 27 59.68	59°27	4	5.886	- 0'0072	
834	6328	6	Pavonis	18 28 41.28	57.26	1	3.652	- 0'0231	- 0°002
835	343		Dagittaili	18 30 0	••		3 052	3 0025	3 002
836	6352	-5	Lacaille 7785	18 31 41.56	60'32	5	5.911	- 0.0263	- 0.011
837	6355	1	3 Lyræ a	18 32 11.85	57.51	13	2.013	+ 0.0016	+ 0.014
838	••	10,11		18 32 44'57	60.60	2	3.877	- 0'0042	-1
839	••	10		18 33 20.67	59.36	4	4.457	- 0.0003	1
840	6361	5	2 Aquilæ	18 34 36	••		+ 3.586	- 0,0010	+ 0'004
							•		

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L			and ear.	Jo	Annual	Secular	Λ	nual		No.	for reference.	
ı		Mean N P.D.	Mean Year and Fraction of Year.	of Obs. N.P.D.	Precess.	Variation	Pro	oper				C
l	No-	1860, Jan. 1.	ion Y	of N.P	in N.P.D.	of Precess.in	Mo	tion n	lle.	ıne,	Fallows or ohnson.	Greenwich or Henderson.
ı		Jan. I.	fear ract	No.	for 1860.	N.P.D.		P.D.	Lacaille.	Brisbane,	Fallows or Johnson	or
L			~ H						Ä	- B		5 H
ı		0 / #			,							
ı	806	132 30 47 97	1800	4	- 0.62	- 0.627						
ı	807	132 15 27.86	59.21	4	0.63	- 0.625						
ı	808	126 47 56.62	60.20	4	0'71	- o·594	+ (0.18	7643	6360] 461	
ı	809	132 20 4.60	59*29	4	0.75	- 0.625				••	••	
١	810	133 1 57.99	59.46	3	0.96	- 0.629						
ı	811	119 52 59'22	58.72	29	1,02	- o.223	+ (0.04	7670	6377	J 462	1473
ı	812	132 59 35.86	59'29	4	1.02	- 0.629						
ı	813	171 54 7.07	56.13	5	1.18	- 1.813	- (0.03	7562	6362		
	814	134 10 28.59	59.05	7	1.53	- 0.635		0.02	7680	6386		
	815	124 26 45.87	57°40	19	1.30	- 0.280	+	0'14	7689	6391	290.J 464	1480
ı	0-6										7.6	
	816	136 2 25.41	60.62	I	1.45	- 0.647		0°07	7694	6397	J 465	•••
	817	147 36 11.37	57.56	I	1.26	- 0.421 - 0.621		0.04	7696	6399	••	••
ı	819	139 8 27'24	59*98	6	1.28	- 0.634	+	0.53	7702	6403		••
ı	820	134 14 40°52 133 55 43°94	59.30	4	1.66	-0.632		••				•
1	020	133 33 43 94	39 20	-	100	-0032		••				•••
ı	821	115 29 41.63	59*39	20	1.69	- o.238	+	0°24	7725	••	J 467	1487
ı	822	123 8 1.90	59.63	2	1.85	- 0.572		• •	7735	••		1489
ı	823	136 0 13.60	60.70	I	1.87	- o.642	11	0.00	7729	6419	293.J 468	٠
١	824	134 41 5.2	59.38	5	1.90	- 0.636		••		••		••
ı	825	123 4 38.01	60.28	I	1,91	- 0.21	+	0.15	7746		••	1493
1	826	92 4 20 11	56.21	2	1'96	- 0'451	+	0.03	l			
1	827	142 59 16.55	57.70	I	2.03	- 0°70I	1	0.09	7743	6424		
١	828	132 24 30.47	60,42	2	2.02	-0.621		0'02	7756	6427	J 471	
١	829	91 2 2 2 6 1 8	58.59	2	2.16	- 0.448	1	0.03				
ı	830	123 6 56.76	60'20	4	2.17	-0.571			7761		••	
l												
-	831	114 7 56.45	57.58	I	2.51	- 0.231		0.00	7769		••	1497
1	832	161 32 23.72	60°57	2	2,33	- 1.051	+	0.13	7736	6436	295. 5 472	••
1	833	135 34 39 42	59.27	4	2.44	- 0.640		• •				
	834	154 45 45 70	57.56	I	2.20	- 0.821	+	0.08	7766	6446	••	•••
	835	113 37 13.07	56.22	I	2.62	- 0.22	+	0.03	/800		- :	• •
	836	154 59 44.84	60.32	5	2.77	- o·853	+	0.10	7785	6458	J 473	
	837	51 20 40.95	57.74	16	2.81	- 0.290	-	0.58		6466		1501
1	838	121 17 42.54	60.60	2	2.86	- o·559		••				••
-	839	136 18 19.11	59.36	4	2.90	- 0.642				••		
-	840	99 10 57.81	60.66	3	- 3.02	- 0.472	1	0.00			297.J 474	1502
		1	1	1			1					
1												

No.	No. in B.A.C.	Magnitude.	Star's Name.	Mean R.A. 1860, Jan. 1.	Mean Year and Fraction of Year.	No. of Obs. of R.A.	Annual Precess. in R.A. for 1860.	Secular Variation of Precess. in R.A.	Annual Proper Motion in R.A.
				h m s	1800		8		
841	6360	. 5	Pavonis 0	18 34: 51'14	60.39	6	+ 5.935	- 0.0294	- 0°007
842		9		18 35 54*17	59.28	5	4.475	- 0.0105	
843	6371	4.3	27 Sagittarii φ	18 36 54.52	59'24	15	3.748	- 0.0040	+ 0'004
844	6379	5.6	4 Aquilæ	18 37 46	••		3.028	0,0000	+ 0.002
845	6383	5	Pavonis \	18 39 13.88	60.39	3	5.286	- 0.0269	- 0.008
846	6385	6	Coronæ Australis nº	18 39 30.38	57°70	1	4.326	- o*0095	- 0.002
847		. 6	Lacaille 7872	18 42 2.37	59.30	5	4.470	- 0.0121	
848	6405	5	Pavonis κ	18 42 29.59	60.27	3	6.530	- 0'0423	- 0,011
849	••	6.7	Lacaille 7889	18 43 32.86	59.31	4	4.202	- 0.0130	
850	6414	6.7	Lacaille 7898	18 43 42.35	60.66	2	3.858	- 0.0060	
851		9		18 44 37.67	10104		4.518	- 0.0136	
852	6429	Var.	10 Lyræ β ¹		59'34	4	2.514	+ 0.0012	- 0.002
853	6440	2.3	34 Sagittarii o		59'55	26	3.724	- 0.002	0,000
854		7.8	34 048.00.000	18 46 35 96	59*34	5	4.214	- 0.0141	
855	6442	6	Coronæ Australis		57.70	I	4.340	- 0,0110	
1	1	1		47	3//-	-	1 7 37-		
856	6443	6	Telescopii λ	18 47 15.32	40.61	1	4.816	- 0.0184	
857	••	9		18 48 22.67	59.44	5	4*532	- 0.0120	
858	6451	6	62 Serpentis	18 48 37		••	2.924	- 0.0001	+ 0.002
859	6461	4	37 Sagittarii §		60.20	1	3.281	- 0.0044	- 0,001
860		7	Lacaille 7930	18 50 3.74	59°27	4	4.246	- 0.0124	
861	6489	3.4	38 Sagittarii 2	18 53 42.11	58.75	23	3.825	- 0.0074	- 0.002
862		7	Lacaille 7959	18 54 4.77	59'36	5	4.547	- 0'0172	
863		9		18 54 19'23	59.41	5	4.559	- 0.0174	
864	6506	6	Sagittarii	18 56 21.94	57.70	1	4.538	-0.0176	
865		11		18 56 50.60	59.48	4	4.576	- 0.0184	
866	6511	5	Coronæ Australis	18 56 56.96	60°38	2	4.028	- 0.0108	+ 0'004
867	6521	4.3	40 Sagittarii 7	1	59.33	16	3.756	- 0.0023	- 0.008
868	6523	. 5	Coronæ Australis d	-	59.63	10	4.182	- 0.0130	+ 0.005
869	6528	. 3	17 Aquilæ 2	1 000	29.00	19	2.758	+ 0.0003	- 0.006
870		8.9	-,1		59.40	4	4.287	- 0,0188	
1					37.	1			
871	6535	4.2	Coronæ Australis a		60°24	3	4.082	-0.0118	+ 0.002
872	6541	5	Coronæ Australis	, ,	60.22	3	4.138	- 0.0178	- 0.002
873	6548	4.5	41 Sagittarii π		60.45	1	3.573	- 0.0024	- 0'004
874	6	10	- Carles !	, ,	59'31	5	4.291	-0.0212	
875	6575	6	42 Sagittarii 4	19 6 57.22	60.46	13	+ 3.683	- 0.0072	0,000
1-									-

856. The R.A. has been brought up with Precession alone.

İ			nd ar,	Jo Of	-				1	N.		
ı	10-1	Mean N.P.D.	Mean Year and Fraction of Year,	Obs.	Annual Precess.	Secular Variation		nnual		140.	for reference	
ı	No.	1860, Jan. 1.	T Ye	of ON.P.	in N.P.D.	of Precess.in	M	otion in	lle.	ane,	ws son,	wich
ı		Jan. 1.	Aear	No.	for 1860.	N.P.D.	N	P.D.	Lacaille.	Brisbane,	Fallows or Johnson	Greenwich or Henderson.
ı			- H						-			D H
I		0 1 1	1800			b		,,				
ı	841	155 12 56.78	60.39	6	- 3.04	- 0.855	+	0.04	7813	6467		
ı	842	136 43 36.40	59.38	5	3.15	- 0.644			14.0		• •	
ı	843	117 7 49.52	59.05	24	3.55	- o.238	-	0,01	7844	6482	298.J 475	1503
ı	844	88 4 44.60	56.21	I	3*29	- c.434	-	0.03				2054*
ı	845	152 20 29:37	60.20	4	3'42	- 0.801	+	0.04	7841	6489	J 476	
ı	846	133 35 0.65	57.70	1	3'41	- 0.620		0.03	7859	6493	••	
ı	847	136 45 15.66	59.30	5	3.62	- 0.639		••		• ••	••	
l	848	157 24 7.03	60.27	3	3.40	- 0.891	-	0.10	7856	6503	••	
ı	849 850	137 26 15.54	59°31	4	3.48	- 0.643		• •	7889 7898	••	••	1515
ı	050	120 53 44 97	00.00	2	3.80	- o.221		••	7090	•••	••	1515
I	851	137 47 9.72	59°34	4	3.88	— o [.] 644		• •		••	••	
l	852	56 47 51.01	57°03	11	3.91	- 0.312	+	0.03		••	••-	1518
ı	853	116 27 59.31	59.26	40	4.05	- 0.230	+	0.08	7918	6527	300.J 478	1521
l	854	137 45 10.85	59'34	5	4.04	- 0.643		•	••		•• • •	••
I	855	134 5 30.62	57.70	1	4.10	- 0.918	+	0.01	7914	6530	••	••
ı	856	143 7 0.89	56.21	1	4.11	- o.686		0.00	7910	6528	111	
l	857	138 9 15.66	59.44	5	4.20	- 0.644						
İ	8.58	83 33 24.55	56.21	1	4.22	- 0.412	+	0.06				2080*
ı	859	111 17 12.10	60.20	I	4.59	- 0.208	+	0.03			J 480	1533
I	860	138 28 12.90	59.28	4	4.34	- 0.645		••	1	••	• •	••
ı	861	120 4 33.71	58.75	23	4.66	- 0.241	+	0.03	7966		301.J 481	1540
I	862	138 36 8.78	59.36	5	4.68	- 0.643	•	•••				
I	863	138 52 4'31	59.41	5	4.70	- 0.644						
I	864	138 30 22.49	57.70	1	4.88	- 0.641	+	0.02	7973	6569	••	
	865	139 14 11.59	59.48	4	4.92	— o·645				••	••	••
I	866	128 15 25°71	6010		440-	01444	,	0120	7988	6574	J 483	
	867	117 52 15.02	60°38	18	4·93 5·04	- 0.258 - 0.258	++	0.50	7994	05/4	302.J 484	1544
	868	130 42 32.08	59.63	I	5.07	-0.589	+	0.07	7994	6578	J 485	
	869	76 20 30.35	- 59.08	37	5.10	- 0.384	+	0.02		••		1545
	870	139 31 50.35	59.40	4	5.12	- 0.645					4	
	0.	0							0	6.0-	T . 9-	
	871	128 7 3.99	60.24	3	5.19	- 0'574	+	0.11	8002	6585	J 487 J 488	,
	872 873	111 14 32.46	60.22	3	5.55	- 0.200	++	0.03	8007	6594	304.J 489	1548
	874	139 46 13.32	59.31	5	5'53	- 0.642	-	0.03		0394	3-7-3 7-9	
	875	115 29 38.67	60.48	14	→ 5·78	- 0.212	+	0.01	8052			1550
		3- 7 3 - 7	+*	1	3,7				1			
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1						and ear.	jo .	Annual	Secular	Annual
ı	No.	No. in	Magnitude.		Mean R.A.	Mean Year & Fraction of Ye	Obs.	Precess.	Variation	Proper
	140.	B,A,C.	gnit	Star's Name.	1860, Jan. 1.	ion Y	P &	in R.A. for	of Precess. in	Motion in
ı			Ma			Mea	No.	1860.	R.A.	R.A.
ı										
ı					h m s	1800			8	8
1	876	6595	6.2	25 Aquilæ ω	19 11 14.69	58.34	16	+ 2.817	- 0.0003	- 0.003
ı	877	••	9		19 12 20.91	59.33	4	4.614	- 0.0252	
1	878	6608	3.4	Sagittarii β^1	19 12 33.91	60.18	5	4.330	-0.0192	- 0.003
ı	879	6610	4	Sagittarii β^2	19 13 5.68	60.2	2	4.344	- 0.0192	+ 0.004
ı	880	6619	4	44 Sagittarii ρ¹	19 13 32.85	60.65	1	3.487	- 0.0061	- 0.003
1	881	6622	4	Sagittarii a	19 14 10.65	60.02	2	4.169	- 0.0164	- 0.011
ı	882		11		19 14 42.87	59.40	4	4.624	-0.0263	
ı	883	6636	6	49 Sagittarii χ ³	19 17 1.09	58.69	2	3.640	- 0.0082	+ 0.002
1	884	6639	6	Lacaille 8107	19 18 5.41	60.26	6	3.800	- 0.0110	+ 0.004
	885	6646	3'4	30 Aquilæ δ	19 18 26.34	60.02	21	3.010	- 0.0014	+ 0.014
	886	6649		m 1	** ** *****	60.03		0.		
ı	887	0049	4	Telescopii μ	19 19 12.12		2	4.895	- 0.0325 - 0.0325	- 0,009
ı	888	6666	6	Piazzi XIX. 126	19 21 12'26	59'33 57'74	4	3.718	- 0.0105	- 0.006
ı	889	••		1 1azzi XIX. 120.6.	19 22 1'97	60.72	3	3.785	- 0°0115	- 0 000
ı	890				19 22 17'43	60.26	1	3.788	- 0.0112	
ı					-77 13	5-		3 /00		
ı	891		11		19 23 43'93	59.40	5	4.646	- 0.0303	
ı	892	6682	7	Lacaille 8139	19 23 56.55	60.61	11	3.744	- 0.0110	••
ı	893	••	10		19 27 2.62	59.26	6	4.647	- 0.0314	••
ı	894	6706	5*4	52 Sagittarii h2	19 28 11.04	59.95	25	3.655	- 0.0101	+ 0°002
ı	895	••	7		19 29 53.29	59°44	5	4.646	- 0.0358	••
١	896	6708	6	Octantis	19 29 59.84	56.11	5	11.528	- 0.2149	
١	897		9		19 30 44'94	59.50	5	4.656	- 0.0332	
١	898		10,11		19 33 10.09	59.46	5	4.652	- 0.0343	
ı	899		11		19 33 25.35	59.47	4	4.659	- 0.0346	
	900	6753	6.7	Lacaille 8208	19 36 32.06	60,01	9	3.812	- 0.0145	- 0.002
						C				
	901	6760	9	#6 Societanii	19 37 41.32	60.40	4	3.708	- 0.0154	••
1	902	1	2	56 Sagittariif	19 38 11.22	59.85	7	3.217	- 0.0001	- 0.013
1	903	6770	7	Lacaille 8225	19 39 5.86	59°35 60°62	10	4.652	- 0.0133	••
	904	6772	3	50 Aquilæγ	19 39 39.12	59.46	9	3.240 5.82	-0.0010	+ 0.001
	373	5//2	3	3 - 2 - 4 /	-7 37 3- 43	3940	4	4052	0 0010	1.0001
	906	6786	7	Lacaille 8241	19 41 46.76	60.24	1	3.689	- 0.0126	
	907	••	10.11		19 42 11.30	59.38	5	4.654	- 0.0385	••
	908	6792	7	Lacaille 8243	19 42 32.27	60.28	3	3.408	- 0.0131	••
	909	6802	1.5	53 Aquilæ a		29.19	42	2.892	- 0.0014	+ 0.036
	910	6801	4	Pavonis &	19 44 20'15	57.13	7	+ 7.068	-0.1653	+ 0.036
			, , ,			7.11				

7												
ı			and ear.	Jo						No	for reference.	
ı		Mean N.P.D.	K	Obs.	Annual Precess.	Secular Variation	Ai	nnual			101 1010101100	
I	No.	1860,	Yes		in	of	M	roper	ů,	1e.	n.	ich on.
ı		Jan. 1.	Mean Year and Fraction of Year,	P.Z.	N.P.D.	Precess.in		in	Lacaille,	Brisbane.	Fallows or Johnson,	Greenwich or Henderson.
ı			Mea	No.	for 1860.	N.P.D.	N	.P.D.	Lac	Bri	Fal Joh	rec
l	_		- 14									O H
ı		0 1 0	0									
ı	876	78 39 15.12	1800 58.69	24	- 6.14	- 0.389	_	0.05				1558
ı	877	140 30 8.06	59.33	4	6.55	- 0.637					11 342	-550
ı	878	134 43 1.29	90.18	5	6.24	-0.297	+	0'02	8075		306.J 492	
ı	879	135 3 29'89	60.2	2	6.29	- 0.298	+	0.02	8079	••	300.5 492	
ı	880	108 6 25.04		1			_	•		••	200 T 400	7760
ı		100 0 25 04	60.65	1	6.33	- 0.480	_	0.03	•••	••	308.J 493	1563
ı	881	130 52 29.25	60°02	2	6.38	- o·573	+	0.02	8087	6650	310. 5 494	••
1	882	140 46 45.03	59.41	5	6.42	- 0.636		••		••		••
1	883	114 13 58.77	58.69	2	6.61	- 0'498	-	0.04	8103		••	1567
	884	120 0 57.91	60°26	6	6.40	- 0.219	+	0.08	8107		••	•••
	885	87 9 40 74	59.91	36	6.43	- 0'411	-	0.10			311	1570
ı												
ı	886	145 23 30.07	60*24	3	6.80	- 0.669		0,00	8101	6666	••	••
ı	887	141 2 51.86	59'33	4	6.80	-0.632		••	••	••	••	••
I	888	117 16 5.66	57.74	3	6.96	- 0.206	+	0.13	8123		••	1573
ı	889	119 40 7.84	60.42	1	7.03	-0.214		••		••	••	••
ı	890	119 46 51.64	60.26	1	7.05	-0.214		••	•••		••	••
ı	0									-		
ı	891	141 34 32.69	59.41	4	7.16	- 0.630		••	•••		••	
ı	892	118 17 2.71	60.61	11	7.18	~ 0.202		••	8139		••	1575
۱	893	141 44 52.69	59.26	6	7.43	- 0.627		••		•••	••	**
ı	894	115 11 19.70	59'45	46	7.23	- 0.491	-	0'02	8166	•••	J 497	1582
ı	895	141 51 45.72	59.46	6	7.66	- 0.623		• •		•••	••	••
l	896	171 41 20.49	56.11	١.	7.67	71552		0.04	8094	6694		
1	897	142 5 28.07	-	5		- 0.624		0.04			••	
I	898		59*50	5	7.73	- 0.620		••		••	••	••
1	-		59.46	5	7'93	- 0.621		••		**	••	••
I	899		59.47	4	7.95		,	••	0000		••	7.504
	900	121 14 5'91	60.01	9	8.30	- 0.204	+	0.15	8208	•••	••	1594
1	901	117 36 10.80	60'70	4	8:30	- o*488						
I	902	110 5 38.87	59.85	7	8.33	- 0°463	+	0.07		6734		1598
	903	142 25 4.84	29.32	4	8.34	- 0.613		••		-734		-37-
1	904	118 49 25.93	60.65	9	8.41	-0.491			8225			
	905	79 43 30'23	59.48	12	8.44	- 0°374		0.00		6742	318	1600
I	7-5	77 73 33 23	39 /0	12	- 44	3/4		3 0 3		773	3.0	
I	906	117 3 49.66	60.24	2	8.62	-0.482			8241			1605
١	907	142 40 2.30	59.38	5	8.64	-0.609						
1	908	117 49 19'71	60.28	3	8.68	-0.484		• •	8243			1607
-	909	81 29 54.71	58.74	108	8.79	- 0.376	_	0.38		6758	320	1610
1	910	163 16 22.34	57.02	7	- 8.82	-0'922	+	0.13	8219	6752	J 501	
1				1.	1		1		11	1	1	
1												

No.	No. in B.A.C.	Magnitude.	Star's Name.	Mean R.A. 1860, Jan. 1.	Mean Year and Fraction of Year.	No. of Obs. of R.A.	Annual Precess, in R.A. for 1860.	Secular Variation of Precess. in R.A.	Annual Proper Motion in R.A.
911	6812	4.2	Sagittarii	h m s	1800	6	+ 4.129	s 0°0242	- o.oo3
912		10		19 45 46.04	59.23	5	4.665	- 0.0400	•••
913	6823	5	58 Sagittarii ω		60.67	5	3.671	- 0.0130	+ 0,013
914	6832	. 5	59 Sagittarii b		58*93	13	3.693	- 0.0136	- 0,003
915	6833	4	60 Aquilæβ		59.69	9	2.946	- 0.0050	+ 0.005
916	6842	5	60 Sagittarii A	19 50 25.17	60.01	6	3.662	- 0.0133	- o'004
917		9	· · · · · · · · · · · · · · · · · · ·	19 50 42.62	59'37	5	4.664	- 0'0421	-0 004
918		8.9	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	19 20 23.12	59*35	5	4.655	- 0.0418	
919		9		19 52 9.24	58.38	4	3,231	- 0.0108	
920		8		19 53 4.57	56.18	1	9'739	- 0'4341	
921	6870	. 5	62 Sagittarii c		59.99	10	3.699	- 0.0146	0,000
922	••	••		19 54 30.35	60.63	7	3.655	- 0.0134	••
923	6859	6	Octantis	19 54 31.71	56.14	5	13.751	- 1.0427	••
924	6873	.4	Payonisδ		59.63	5	5.772	- 0.0928	+ 0,130
925	6877	5	Lacaille 8322	19 55 26.74	60.44	2	3.819	-0.0172	+ 0.053
926		7	Lacaille 8334	19 56 39.25	60.63	5	3.672	- 0'0143	
927	6900	6	Octantis	19 59 56.37	56.50	5	9.652	- 0.4545	
928		10,11		20 0 21.98	58.38	4	3.222	- 0.0112	
929		9		20 0 24.87	59.38	4	4.650	- 0.0457	
930	6906	7	Lacaille 8359	20 0 34.99	60.62	4	3.652	- 0.0144	
			- " 0 6						
931	6920	7	Lacaille 8364	20 1 40'17	60.69	4	3.627	- 0,0139	••
932	6922	. 6	Lacaille 8362	20 1 59.63	60.02	4	3.923	-0.0719	••
933	1	10		20 2 42'98	59.33	5	4.656	- 0'0471	••
934	3	10		20 4 5.44	58.35	3 5	3.212	- 0°0117	••
935	••			20 5 2/05	59*44	3	4 054	0 0403	• • •
936		9,10	.,,,	20 6 58.11	59.21	4	4.651	- 0.0488	
937.	6948	7	Lacaille 8386	20 7 8.46	60.55	2	3.240	- 0.0172	
938	••	,II		20 9 9.72	58.39	3	3.215	-0.0155	••
939	•• .	12		20 9 25.29	59.35	4	4.655	- 0.0497	••
940	• • •	••	•••••	20 9 44.59	60.63	6	3 '593	- 0'0141	
941	6971	6	4 Capricorni	20 9 47.69	59.88	,	3*533	- 0'0127	+ 0.006
941	6974	3.4	6 Capricorni q ²		59.34	26	3 533	- 0.0084	+ 0.001
943	6981	6.2	7 Capricorni σ		59:48	3	3'471	-0.0114	0,000
944	6982	7	Lacaille 8407	,	60:52	2	3.611	- 0.0148	•••
945					60.65	5	+ 3.600	- 0.0146	
-		•	. 1				-	1	-

		and Year.	Jo	A1	C		1		No.	for reference	
	Mean N.P.D.	Mean Year and Fraction of Year	Obs.	Annual Precess.	Secular Variation		nnual roper		6		1 -
No.	1860,	Mean Year Traction of J	of N.P.	in	of	M	lotion	ů	je.	ws.	Greenwich or Henderson
1	Jan. 1.	ean	No.	N.P.D. for 1860.	Precess.in N.P.D.	N	in .P.D.	Lacaille,	Brisbane	Fallows or Johnson.	or
		Fra	Z					Lac	Bri	F. C	H G
						_					
911	132 13 54.16	1800	7	- 8·92			0.08	8255		Lros	
911	143 4 35.90	59°57 59°53	5	8.93	- 0.602	_		8255		J 502	
913	116 40 2.08	60.67	5	9.02	-0.474	_	0.08	8268			1616
914	117 32 14.12	58.93	13	9.13	- o-476	+	0.01	8277		321.] 503	1619
915	83 56 24.19	59.95	8	9'14	- 0.379	+	0.47		6774	322	1620
916	116 34 15.09	60.04	6	9.29	- 0.470	_	0.01	8294	•••	••	1623
917 918	143 21 32*48	59.37	5 2	9.31	- 0.299		••			••	••
919	111 14 7.38	59°35	5	9*32	- 0.202		••			••	••
919	169 58 58.83	20.18	1	9°43	- 0'45I		• •				•
920	109 30 30 03	30 10		950	- 1 251		••				•••
921	118 5 43.78	58.56	2 I	9.57	- 0.470	-	0'02	8315	••	323.J 505	1627
922	116 25 40.30	60.63	7	9.61	- 0°464		••	••			
923	173 43 46.36	56.14	5	9.61	- 1.757	+	0.03	8202	6771		
924	156 31 57.56	59.63	5	9.64	 0°735	+	1.12	8295	6787	J 504	
925	122 26 43.01	60.44	2	9.68	- 0.483	+	0.09	8322	•••	J 506	1629
926	117 12 20'11	60.63	_	0.44	- 0.463			8334			1631
927	170 1 7'34	56.50	5	9'77	- 1.516		0.03	8281	6796	••	1031
928	111 14 1'97	58.37	4	10.09	- 0'441	_				-	
929	143 44 43.20	20.38	4	10.09	- 0.283						
930	116 37 31.30	60.62	4	10.02	- 0.456			8359			1636
,,,	37 32 30		т	100,	430		••	-339			5-
931	115 41 28.14	60.69	4	10'15	- 0.452		0,00	8364	•		1637
932	126 26 56.85	60.02	4	10,18	- 0.489		••	8362	••		•••
933	144 1 11.35	59.33	5	10.53	— o⁺58o		••				••
934	111 8 33.62	58.32	3	10.34	- 0.435		••			••	••
935	144 10 39.87	59°44	5	10.43	— °·575		••			••	••
936	144 14 32.73	59.21	4	10.22	- 0°572						
937	120 25 44.56	60.22	2	10.22	- 0°459			8386			1645
937	111 15 43.66	28.39	3	10.45	- 0.428			••			••
939	144 29 28.08	59.35	4	10'73	- o.269						• •
940	114 48 0.88	60.63	6	10.76	- 0.437					••	••
		,			137						
941	112 14 20.30	59.88	3	10.46	- 0.430	+	0.02		••	••	1656
942	102 58 32.43	59.46	86	10.80	- 0.402		0.00	••		326.J 509	1660
943	109 33 8.58	59.48	3	10.87	- 0°42 [-	0.02	••	••	327	1663
944	115 39 28.42	60.2	2	10.88	- o.438		••	8407	•••	** -	1664
945	115 14 8.50	60.65	5	- 10.96	- o.432		••		••	••	••
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No.	No. in B.A.C.	Magnitude.	Star's Name.	Mean R.A. 1860, Jan. 1.	Mean Year and Fraction of Year.	No. of Obs. of R.A.	Annual Precess. in R.A. for 1860.	Secular Variation of Precess, in R,A.	Annual Proper Motion in R.A.
				h m s	1800		8	S	8
946	6995	3	9 Capricorniβ		59.83	1	+ 3.376	- 0.0092	- 0,001
947	7004	9	Pavonis a	20 13 22.62	58.34	3	3.202	- 0.015	••
948	' '			20 14 32.84	59.59	13	4.798 3.601	- 0.0149	- 0.003
949	7011	7	Lacaille 8427	20 16 6.38	60'46	5	3,400	- 0.0144	
									••
951	7012	7	Lacaille 8430	20 16 11.57	60.22	2	3.619	- 0.0126	••
952	••	10,11		20 16 35.08	59.36	4	4.632	- 0.0524	• •
953	7022	3	37 Cygni γ	20 17 12'29	60.68	2	2'151	+ 0.0010	0,000
954	7021	7	Lacaille 8440	20 17 21'24	60.23	1	3.635	- 0.0162	••
955	••	9		20 17 22'77	59.48	5	4.635	- 0.0230	
956		II		20 19 16.36	59'35	4	4.462	- 0.0540	
957	7039	7	Lacaille 8458	20 20 9.93	60.48	6	3.574	- 0.0149	••
958	7040	7	Lacaille 8459	20 20 26.09	60.46	2	3.269	-0.0148	
959	7042	5	11 Capricorni ρ	20 20 52.30	60.10	20	3*433	- 0.0114	0'006
960		8		20 22 6.45	59'35	5	4.625	- 0 0548	
961	7057	6.7	Lacaille 8466	20 22 21.93	60.23	I	3.689	- 0.0184	
962	7062	5.6	43 Cygniω ¹	20 22 45.38	60.68	2	1.826	+ 0.0001	+ 0.002
963	•••	10,11	T 211 - O - O-	20 23 8.26	59.40	4	4.617	- 0.0249	••
964	7077	5.6	Lacaille 8480	20 24 31.86	59.63	7	3.282	-0.0122	- 0,011
965	7008	30	Octantis μ^1	20 24 37 42	56.31	5	7 020	- 0.3009	+ 0'072
966		10		20 25 31'04	59.45	4	4.613	- 0.0528	
967	7091	6.2	46 Cygni ω ³	20 26 59.44	60.68	2	1.850	+ 0'0004	+ 0.002
968	7096	3	Indi α	20 27 42.21	60.13	9	4.250	- 0.0398	0,000
969	7106	5	Pavonis v	20 29 3.36	60.03	4	5.610	- 0,1166	+ 0'002
970	7119	6	Cygni	20 30 18:49	60.40	1	5.138	+ 0.0053	
		0.10		20 20 22112	#8.a#		2:477	otores.	
971	7127	5	14 Capricorni τ ²	20 30 32,49	58.35	4	3°475 3°364	- 0.0106	0,000
972		.5	14 Capricorm T	20 31 28 52	59.41	4	4.614	- 0.0180	- 0°002
973	7124	6.2	15 Capricorni v		58.60	5	3.427	- 0.0155	0,000
974	7134	3	Pavonis		59.70	2	5.216	- 0.1165	- 0.000
975	/129	3	2 2. O	22 32 2/03	3970	-	3 320	0 1102	. 0 009
976		11'12		20 33 45.60	59.41	5	4.602	- 0,0291	1
977		1112		20 34 39.65	59°48	5	4.602	- 0.0298	
978		6.2	Lacaille 8537	20 34 44.27	60.47	4	3.672	- 0°0196	
979		8.9		20 35 1.50	58*34	3	3.467	- 0.0136	
980	7165	4.2	Pavonis σ	20 35 59.31	57.91	9	+ 5.819	- o'1443	
978 979		8·9		20 34 44.52	60°47 58°34	4 3	3.672 3.462	- 0.0136 - 0.0136	

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		Mean N.P.D.	Mean Year and raction of Year.	f Obs. of P.D.	Annual Precess.	Secular Variation		nnual Proper		No.	for reference	
	No.	1860,	Ye	of ON.P.	in	of .	N	Iotion	0:	ي و	, ii	ich son.
		Jan. 1.	Mean Y Fraction	No.	N.P.D. for 1860.	Precess.in N.P.D.	N	in I.P.D.	Lacaille.	Brisbane.	Fallows or Johnson	Greenwich or Henderson.
ı		0.	NH	Z					Lac	Bri	Fa Job	Gre Her
ı		0 / "	1800		,			,				
ı	946	105 13 13.45	60.43	3	- 11.01	- 0.407	-	0.03			328.J 511	1667
ı	947	111 10 30.07	58.34	3	11.03	- 0.422						
ı	948	147 10 45.52	59.20	16	11.11	- 0.578	+	0.08	8416	6846	329.J 512	H 38
I	949	115 25 55.55	60.63	5	11.15	- 0'432		••				
I	950	119 31 26.43	60.46	3	11.55	- 0.442		• •	8427		••	1671
I	951	116 16 52.98	60.2	2	11'23	- 0.433			8430			1672
ı	952	144 38 39.98	59.36	4	11'25	- o*554		• •				
I	953	50 11 22	••	••	11.31	- 0.254	-	0.03		•••		R 1972
i	954	117 0 28.69	60.23	1	11.31	- 0.433		• •	8440		**	••
-	955	144 45 23.70	59.48	5	11,31	- o.223		••		- ••	••	
I	956	145 1 40'50	59'35	4	11.45	- 0·551						
ı	957	114 37 6.04	60.48	6	11.22	-0.422		••	8458			1678
ı	958	114 26 30.68	60.46	2	11.24	- 0.421			8459		••	1679
ı	959	108 16 24.51	59.43	46	11.22	- 0.404	+	0.01			331.] 514	1680
İ	960	144 59 3.13	59.35	5	11.62	÷ 0.244		••			••	
l	961	119 34 40'58	60.23	ı	11'67	- 0.433			8466			1683
l	962	41 4 46	••		11'70	- 0.511	_	0.04	3400		••	1684
I	963	144 55 38.99	59.40	4	11.72	- 0.241		••			1	
ı	964	115 24 47.57	59.63	7	11.83	- 0.417	+	0'12	8480			1687
ı	965	166 39 50.44	26.31	5	11.83	- 0.893	+	0.14	8435	6870		
ı								Ţ,	133			
ı	966	145 3 9.26	59*45	4	11.89	- o.232		••	••		••	••
۱	967	41 15 3	· ·	••	12.00	- 0'210	+	0,03		•••		1691
I	968	137 46 32.54	60.18	11	12.02	- 0.491	-	0.00	8494	6885	335.J 516	H 52
I	969	48 35 35	60.03	4	12'14	- 0.646 - 0.242	+	0.03	8488	6889	J 517	••
	9/0	40 33 33	••		14 23	- 0 242		• •	••	- • •	••	/
	971	110 49 0'94	58.34	3	12'25	- o.396					••	
I	972	105 26 34.85	60.10	4	12.31	- 0.385	+	0.03	••	••	••	1700
	973	145 36 12.08	59.41	4	12.31	- 0.226			••	••	• •	••
I	974	108 37 42.44	58.60	4	12.35	- o.388	-	0'02	••	••	J 520	1701
	975	156 42 4.40	60.04	3	12.37	- 0.628	+.	0.06	8500	6897	338.J 518	H 19
	976	145 35 49 97	59.41	5	12.46	- 0.21				٠.		
	977	145 41 35.33	59.48	5	12.23	0.219				••		
	978	119 54 51.89	60.47	4	12.24	- 0.413			8537			
	979	110 43 23.07	58.34	3	12.56	- 0.389						
	980	159 16 56.49	57.65	4	- 12.62	- 0.655	-	0.03	8521	6908		
1							_					
1												

No.	No. in B.A.C.	Magnitude.	Star's Name.	Mean R.A. 1860, Jan. 1.	Mean Year and Fraction of Year.	No. of Obs. of R.A.	Annual Precess, in R.A. for 1860.	Secular Variation of Precess. in R.A.	Annual Proper Motion in R.A.
				h m s	1800			8	
981	7171	2°I	50 Cygni α	20 36 39.44	59.48	6	+ 2.043	+ 0.0022	- 0.002
982	7020	6.7	Octantis B		59.36	50	117.266	-157.5812	- 0.146
983	7177	4.5	16 Capricorni ψ		58.44	9	3.240	- 0.0168	- 0.007
984	7207	4.2	Microscopii a		59.90	4	3.767	- 0.0240	+ 0.051
985	7208	5.6	Indi &	20 41 21.24	60.12	3	4*382	- 0.0211	- 0.001
986	7227	4.5	18 Capricorni ω	20 43 27.58	56.78	5	3*597	- 0.0184	- 0.003
987	7228	4	Indi β	20 43 50'14	60.51	6	4.751	- 0.0734	- 0.008
988	7233	5.6	55 Cygni	20 44 10.00	60.68	2	2'042	+ 0.0022	
989		9	•	20 44 34.54	59.43	5	4.264	- 0.0626	
990	7249	6	19 Capricorni	20 46 52.96	59.38	2	3'405	- 0.0178	0.000
				0					4
991	••	10.11	***************************************	20 47 5.84	59.2	3	4.264	- 0.0638	••
992	••	9	Cum:	20 48 0.08	59.37	4	4.264	- 0.0643	••
993	7254		Cygni		60.68	2	2.092	+ 0.0029	
994	7256	5.6	32 Vulpeculæ	20 48 35.67	58.90	4	2.255	+ 0.0026	- 0°002
995	••	11'12	• • • • • • • • • • • • • • • • • • • •	20 48 49*15	58.26	4	3.441	- 0'0140	••
996		9.10		20 49 2.21	58.37	4	3°436	- 0.0138	
997	7270	6	20 Capricorni	20 51 38.44	58.34	2	3'420	- 0.0136	+ 0.006
998	7277	4	58 Cygniν	20 51 57'09	60.68	2	2*233	+ 0.0037	+ 0.001
999	7282	6	21 Capricorni	20 52 58-84	58.56	2	3*390	- 0.0128	0.000
1000	7292	5.6	Microscopii ζ	20 54 0.20	60.27	8	3.862	- 0.0303	0.008
1001	7301	5.6	59 Cygni f ¹		60.68	2	2.037	+ 0.0031	- 0.002
1002	7305	5.6	22 Capricorni η		58.09	3	3.429	- 0.0143	- 0.006
1003	7309	5.6	12 Aquarii		• •	**	3.123	- 0.0021	+ 0.006
1004	7314	5.6	Microscopii η		60'21	3	3.931	- 0.0342	- 0'002
1005	••	8.9		20 57 50.43	28.35	3	3.420	- 0.0141	••
1006	7322	4	23 Capricorni θ	20 58 4.35	59.71	6	3.378	- 0'0128	+ 0.004
1007	7328	5	24 Capricorni A				3.226	- 0.0148	+ 0.002
1008	7333	4	62 Cygni ξ		60.68	2	2.178	+ 0.0041	+ 0,001
1009	7331	5.6		21 0 8.48	56.17	5	5.769	-0.1721	+ 0.010
1010	7335	6	25 Capricorni x	21 0 32'18	57'59	2	3*448	- 0'0153	- 0.001
1011	7336	5.6	/	21 0 37'33	60.02	2	2*334		+ 0.339
1012	••	10		21 1 22'24	58.40	3	3*412	- 0'0141	••
1013	••	7		21 1 41'15	60.46	2	3.620	- 0'0217	
1014	7344	4.2		21 1 57.86	60.43	5	3.540	- 1	+ 0.001
1015	• • .	9		21 2 19.09	59.42	4	+ 4.218	- 0'0692	- 1

		r and Year.	s. of	Annual	Secular		nnual		No.	for reference	
No.	Mean N.P.D.	Mean Year Fraction of Y	P.D.	Precess.	Variation of	P	roper lotion		0	9 6	15 g
	Jan. 1.	ean	OZ	N.P.D. for 1860.	Precess.in N.P.D.		in .P.D.	Lacaille,	Brisbane,	Fallows or Johnson	Greenwich or Henderson.
		FM	No.	101 1800.	N.I.D.	14	.1 ,D.	Lac	Bri	F. Jol	Gre
	0 , ,	1800									
981	45 13 4.85	20.19	6	_ 12.67	- 0'226		0.00		6913		1706
982	179 28 51.96	28.99	64	12.71	-13.254	+	0.01		6644	J 496	Н 1
983	115 46 15.71	57.91	15	12.74	- 0.397	+	0.12	8553		340.J 521	1708
984	124 17 39.63	59.90	4	12.97	-0.413	+	0.12	8579	6922	342.J 524	1711
985	142 7 31.46	60.12	3	12.98	- 0.481	+	0.03	8567	6921	••	
986	117 26 23.59	56.48	5	13.12	- 0.391	+	0.03	8601			1716
987	148 58 41.67	60'29	8	13.12	- 0.217	-	0.01	8584	6929	344-J 525	
988	44 24 14	• •	••	13.12	- 0'220		••	••	••	••	
989	145 59 14.01	59.43	5	13.19	- 0.495		••				
990	108 27 4.09	59'39	2	13.35	- 0.362	-	0.04	•••	••	•••	1719
991	146 14 34.23	59.52	3	13.36	- 0.491						
992	146 19 56.47	59.38	4	13.42	- 0.489		••		••		
993	45 20 51	••	٠.	13.44	- 0'221		• •			••	
994	62 28 23.19	29.31	6	13.46	- 0.521		0.00				1723
995	110 26 26.56	58.48	4	13.48	o-366		••		••		
996	110 11 11.97	58.36	4	13'49	- o'365						
997	109 34 30'74	58.34	2	13.66	- o.360	+	0.02				1727
998	49 22(12,34)	••		13.68	- 0'232	_	0.01				1728
999	108 4 28.28	58.56	2	13.74	- 0.354	_	0'03			346	1731
1000	129 10 29.56	60'27	8	13.81	- 0.403	+	0.06	8653	6962		
1001	43 1(27'12)		••	13.87	- 0'209	+	0,01	••	••	0.7	1733
1002	110 24 21'16	58.09	3	13.96	- 0.353	+	0.02	•••	••	348.J 527	1735
1003	96 22 29.37	60.21	1	13.97	- 0'326 - 0'404	+	0.03	8675	6970	•	2383*
1004	110 2 9'42	58.36	3 4	14.01	- 0.320	1	••	00/5			•
1	, +*	J. J.	Т	-7-3	- 350		•				
1006	107 47 11.26	59.21	12	14.06	- °345	+	0.02	••	6976	••	1737
1007	115 33 44.58	57.36	1	14.15	- 0.359	+	0.03	8689	••		1739
1008	46 37(44.92)	••	••	14.17	-0.510	-	0.05		••	••	1740
1009	160 41 31.36	56.17	5	14'19	- o.289	-	0.02	8668	6977	••	••
1010	111 45 12.65	57.59	2	14.51	- 0.349	+	0.03	••	••	••	1741
1011	51 56 13.28	59.05	2	14.22	- 0.234	_	3.55				1742
1012	109 53 48.62	58.40	3	14.27	- 0'344					••	••
1013	120 17 9.94	60.46	2	14.29	- o·365		••	8707		••	
1014	101 56 9.49	60:43	5	14.30	- o.358	+	0.01	••	••	349.J 528	1745
1015	147 4 52.35	59.42	6	- 14.32	- 0.455		••-	••		••	••

	No.	No. in B.A.C.	Magnitude.	Star's Name,	Mean R.A. 1860, Jan. 1.	Mean Year and Fraction of Year.	No. of Obs. of R.A.	Annual Precess. in R.A. for 1860.	Secular Variation of Precess, in R,A,	Annual Proper Motion in R.A.
	1016		8		h m s	1800	5	* + 4°5°4	e 0°0695	8
ı	1017	7358	6	Lacaille 8718	21 5 9.07	59.98	8	4.263	- 0.0736	••
ı	1018		11'12		21 6 1'21	58.40	3	3.402	- 0.0141	
ı	1019	7368	3	64 Cygni ζ	21 6 58.67	58.63	3	2.220	+ 0.0038	- 0.003
ı	1020	7371	5.6	28 Capricorni φ	21 7 40	••	••	3*427	- 0.0125	+ 0,001
ı	1021	7374	6	29 Capricorni	21 7 59			3.329	- 0,0110	- 0,001
ı	1022	7386	5	4 Piscis Australis		60'20	6	3.655	- 0'0244	+ 0,001
ı	1023	7384	-6	Octantis	21 10 37'04	56.17	5	10'722	- 1'1295	
I	1024	••	10		21 11 11'24	59.45	5	4.479	-0.0712	
ı	1025		10		21 12 44.50	59'47	4	4'466	- 0.0216	
1				T 11 0.0		60		0		
1	1026	••	-7	Lacaille 8787		60.48	3	3.280	- 0'0140	••
ı	1027	7407	7	32 Capricorni t	21 13 52'17	58.35	3	3,320	- 0.0130	0,000
ı	1029	7409	-3	Pavonisγ	21 14 49.07	59.98	· ·	5.024	0,1508	+ 0.010
ı	1030	7423	5	Indi y	21 16 14.72	59.96	3	4.336	- 0'0643	- 0,002
ı	30	74-3.		,	/-	399-	3	733-		
ı	1031		8.9	•••••	21 18 23.84	59'41	5	4.446	- 0.0734	
ı	1032	••		•••••	21 18 26.24	60.38	1	3.260	- 0'0217	.0 7
ı	1033	7445	4.	34 Capricorni Z	21 18 40.03	57'14	2	3'440	- 0.0164	- 0.005
ı	1034	••	10		21 20 53'41	59'45	4	4.429	- 0.0434	••
ı	1035	••	10.11	••••••••••	21 23 4.90	59'57	5	4.426	- o*o748	••
ı	1036	7471	5.6	Lacaille 8833	21 23 13'24	60'39	ı	3.827	- o°o357	. 5
ı	1037	7478	3	22 Aquarii β		59.63	38	3.163	- 0.0072	- 0.001
ı	1038		9		21 25 6.74	59.24	5	4'411	- 0.048	
ı	1039		10,11		21 28 39 86	59.59	4	4*402	- 0.0764	
ı	1040	7498	5.6	Octantis \	21 28 59.60	56.34	4	10,101	- 1.1348	••
				0		.0.				
ı	1041	7506	5*4	39 Capricorni E		58.42	2	3*371	- 0'0149	- 0'002
ı	1042	7514	5'4	23 Aquarii ξ		60.76	3	3,193	- 0°0082	+ 0,004
ı	1044	7525	7	40 Capricorni γ	21 30 56.22	59°53 58°46	3	4.384	- 0.0131	+ 0.013
	1045	/525	8	40 Capricorni y	21 32 19 78	59'49	15	3'322	- 0.0131	- 0 013
	-043				33 ~~ 07	37 TY	3	4 3//	1 1//3	
	1046	7538	6	Lacaille 8886	21 34 5.25	59'90	8	3.843	- 0.0396	1, 4.
	1047	••	11		21 35 12.79	59'44	4	4*371	- 0.0480	••)
	1048	7557	5	9 Piscis Australis. 1	0 00 .	60.36	5	3.294	- 0.0261	0,000
	1049	7561	2.3	8 Pegasiε		29.38	10	2.942	- 0,0006	+ 0.003
	1050	7580	3	49 Capricorni δ	21 39 18.24	57.84	12	+ 3*304	-0.0178	+ 0,014

1		1	1 m ±	44	1	1	1		11			
			year.	s. of	Annual	Secular		nnual		No.	for reference.	
	No.	Mean N.P.D.	rear of	Obs. P.D.	Precess.	Variation of	F	Proper Iotion		1 .:	1 m d	14 8
	,	Jan. 1.	Mean Year s Fraction of Y	o Z	N.P.D.	Precess.in		in	Lacaille.	Brisbane.	Fallows or Johnson	Greenwich or Henderson
			Me	No.	for 1860.	N.P.D.	N	.P.D.	Lac	Bris	Fal	Greenwich or Henderson
	-			-		-	-		-			
	1016	0 / /	1800			*		"				
	1017	147 7 59.06	59°42	5	- 14.48	- 0.449	1	0'02	8718	6989		••
IJ	1018	109 41 32.97	58-39	4	14.20	- 0.424 - 0.336	1	0.02		0909		••
	1019	60 20 45.08	58.88	5	14.61	- 0'249	+	0.02				1749
١	1020	111 13 48.32	57.36	I	14.65	- 0.332	<u> </u>	0.04				1750
ı	1021	105 45 3.13	60.23	2	14.67			0.01			350.J 529	1752
1	1022	122 45 17:25	60'20	6	14.75	- 0'325 - 0'355	+	0.04	8761	7002	J 530	1757
ı	1023	173 17 9.87	56.17	5	14.82	- I.040	+	0.10	8672	6996		-/3/
	1024	147 26 19'97	59.45	5	14.85	- 0.433		•••				
	1025	147 23 40.75	59.47	4	14.95	- 0.458		••				
ı	1026	119 45 26.19	60.48	3	15.00	- 0.340		••	8787	••	••	••
ı	1027	109 19 36.35	58.35	3	15.02	- 0.351		••		••	T 440	***6*
ı	1028	107 25 41.90	59.29	16	15.02	- 0.314 - 0.480	-	0.83	8778	7014	J 532	1763 H 20
ı	1029	145 15 43'09	59.98	5	15.02	- 0'408		0.04	8792	7017	J 533	
١	10,0		00 02	3	*3 *3	- 0 400		0 04	0/92	/ 52/	3 333	
ı	1031	147 45 6.12	59.41	5	15.27	- 0.413		• •			••	••
ı	1032	119 24 40.87	60.38	I	15.58	- 0.359		••	••	••	••	••
ı	1033	113 0 55.30	57.14	2	15.59	- 0.318	-	0.03	8815	••	356.J 534	1775
ı	1034	147 46 13.24	59°45	4	15.41	— 0°406		• •		••	••	••
ı	1035	148 0 2.29	59*57	5	15.23	- 0'401		••		••	••	••
ı	1036	131 47 38-33	60'39	1	15.24	- o·346	+	0'20	8833	7036		
ı	1037	96 11 5'32	59.12	95	15.60	- 0.583		0.00		7040	357·J 535	1777
	1038	147 59 49 37	59.55	6	15.64	- o 396					••	••
I	1039	148 20 15.31	59.28	5	15.84	- o·387			••		••	
	1040	173 21 23.81	56.90	5	15.82	 0.892	+	0.10	8798	7042	••	••
	1041	110 5 27.72	58.42	2	15.87	- 0'294		0.00			J 536	1787
ı	1041	98 28 48.09	60.76	3	12.93	- 0°276	+	0'04		7055	358.J 537	1788
	1043	148 22 7'42	59.24	4	15.99	- 0.381	•	•••		0.	••	.,
I	1044	107 17 33.05	58.43	23	16.04	- 0.584	+	0.03		••	359.J 538	1790
н.	1045	148 31 59.11	59.21	4	16.09	- o·374						
ı									0000	60		
1	1046	134 7 46.24	29.90	8	16.13	- 0°326	+	0'02	8886	7068	••	**
ı.	1047	148 41 18.82	59.45	4	16.18	- 0°370			8007	7074	Tigar	
в.	1048	80 45 54:41	60.36	5 21	16.26	- 0.300	+	0.00	8901	7074	J 541	1801
н	1049	80 45 54.41	28.31	21	- 16.40	- 0°244 - 0°271	+	0.58			364.J 542	1811
1	.050	43 3/ 33	30 31		1045	02/1	-	1			3-4-7 3-4-2	1011

1	Vo.	No. in B.A.C.	Magnitude.	Star's Name.	Mean R.A. 1860, Jan. 1.	Mean Year and Fraction of Year.	No. of Obs. of R.A.	Annual Precess. in R.A. for 1860.	Secular Variation of Precess. in R.A.	Annual Proper Motion in R.A.
T					h m s	0				
1	051	7583	5.4	10 Piscis Australis $ heta$		1800	4	+ 3*544	- 0.0240	+ 0.005
1	052		8		21 40 22.46	59°47	4	4.343	- 0.0790	
1	053	7613	3	Gruis γ	21 45 26.30	60.07	.10	3.621	- 0.0311	+ 0.005
1	954	7618	5	51 Capricorni μ	21 45 39.56	57.93	4	3*259	0.0115	+ 0.051
1	055	7627	5.6	16 Pegasi	21 46 41.65	58.43	4	2.722	+ 0.0025	+ 0.001
1	056	7633	5	Indi δ	21 48 21.64	60.48	1	4.132	o°o666	- 0.002
1	057	7634	5	Indi κ ¹	21 48 34.30	59.74	I	4.315	- 0°0820	+ 0.000
1	058	7657	5.6	12 Piscis Australis η	21 52 47.07	60.18	10	3.462	- 0.0319	+ 0.003
1	059	••	7		21 56 37.80	60.46	3	3.454	-0.0518	••
1	060	7688	3	34 Aquariia	21 58 35.49	58.87	12	3.084	- 0'0042	0.003
1	061	7691	4	33 Aquarii 1	21 58 52.37	58.38	6	3*247	- 0.0113	- 0,00I
1	062	7692	2	Gruis a	21 59 23'49	59.83	17	3.808	- 0.0459	+ 0.011
1	063		9		22 0 29.46	58.42	3	3.581	- 0.0133	
1	064	7713	6	Octantis C	22 3 34.83	58.69	50	14.565	- 3.7282	- 0.030
1	065	7725	5.6	Octantis &	22 4 4.84	56.32	5	7.224	- 0.6251	+ 0.054
1	066		8		22 5 29.96	58.42	3	3.525	- 0.0129	••
1	067	7748	6	Lacaille 9061	22 6 4.71	59.65	1	3.647	- 0.0363	+ 0.021
1	068	7756	5	Gruis μ ¹	22 7 10.03	60'25	4	3.642	- 0.0362	- 0,001
1	069	7763	5.6	Gruis μ ²	22 8 0.10	57.70	I	3.644	- 0.0362	- 0.002
1	070	••	11		22 8 46.50	59.22	5	4.176	- 0.0843	••
1	071	7767	3	Tucanæ a	22 8 52.65	59.76	2	4'194	0.0865	- 0.002
1	072	7771	6	42 Aquarii	22 9 17			3,551	- 0.0102	
1	073	7773	4.2	43 Aquarii 6	22 9 26.61	59'71	15	3.162	- 0.0022	+ 0.006
1	074		10		22 9 41'01	59.21	4	4.181	- 0.0826	•••
1	975	7781	6	45 Aquarii	22 11 29.71	57.52	1	3°224	- 0.0102	+ 0.000
1	076		10	·	22 12 28.75	58.43	4	3,52	- 0.0123	• •
I	077		12		22 16 41'02	59.65	5	4.158	0.0828	
1	078	7806	6	50 Aquarii,	1	28.13	4	3*220	- 0.0102	+ 0.004
	079	7808	5	Tucanæ ð		29.38	6	4.354	- 0'1129	+ 0.009
1	080	••	12		22 18 44.62	59.56	6	4.116	- 0.0864	• •
1	081	7828	4	Gruis δ1	22 20 53'10	60.25	6	-3.617	- 0.0391	-0.007
1	082	••	11		22 21 16:43	59.21	4	4.089	- 0.0826	••
1	083	7830	5	Gruis δ		59.77	1	3.619	- 0.0394	- 0.006
	084	7832	3.4	55 Aquarii ζ	1	60.51	I	3.079	- 0.0034	+ 0.000
1	085	7840	5.4	57 Aquarii o	22 23 14.06	59.03	6	+ 3.185	- 0.0089	- 0.004
-										

1							1					
			ear and of Year,	of.	Annual	Secular	A	nnual		No.	for reference	
١		Mean N.P.D.	Mean Year a Fraction of Ye	of Obs. N.P.D.	Precess.	Variation	F	roper	-	[1	14 6
١	No.	1860, Jan. 1.	Y r	P. S.	in N.P.D.	of Precess.in	I N	Iotion in	le,	ne.	Son	Greenwich or Henderson,
1		Jan. 1.	lear acti	No.	for 1860.	N.P.D.		.P.D.	Lacaille,	Brisbane.	Fallows or Johnson	or or
ı			7 F	_					La	Br	H 1	G H
١		0 , ,										
ı	1051	121 32 38.02	1800 60:45	4	- 16.40	- 0'290		0.00	8917	7082	J 543	1812
ı	1052	148 57 0.90	59'47	4	16.45	- 0.356						
ı	1053	128 1 16.00	60.01	9	16.40	- 0.588	+	0.03	8951	7094	365.J 544	
ı	1054	104 12 31.40	58.04	5	16.21	- 0.256	_	0'02			J 545	1822
ı	1055	64 43 56.18	58-55	6	16.76	- 0'211	+	0.01			••	1824
I	1056	145 39 19.91	60°48	1	16.84	- 0'321	+	0.01	8962	7100	J 546	
ı	1057	149 40 38.58	59.74	1	16.85	- 0.334	_	0.09	8959	7101		
ı	1058	119 7 25.03	60'14	9	17.04	- 0.259	-	0.03		7112	••	1832
	1059	119 6 42.23	60.24	3	17.22	- 0'251			9012			
	1060	90 59 54.53	59.18	33	17:31	- 0'220	+	0'02		7129	367.J 550	1840
ı	1061	104 32 49'62	58.21	11	17'32	- 0*231	+	0.02			368.J 551	1842
ı	1062	137 38 11.89	59.95	18	17:34	- 0.525	+	0.12	9021	7130	369.J 552	H 53
l	1063	107 22 19.76	58.42	3	17.38	- 0.531						
I	1064	176 40 24.79	58.46	57	17.52	- 1.004	_	0.08	8924	7119	J 549	H 7
ı	1065	171 7 58.44	56.32	5	17.54	- 0.202	+	0.02	9010	7134	••	
ı												
ı	1066	107 18 42.71	58-42	3	17.60	- 0'221	,	•••	9061	7744	I cro	••
ł	1068	132 2 35.08 132 2 28.84	59.65	-	17.63	- 0'247	+	0.03	9069	7144	J 553 J 554	••
l	1069	132 2 28.84	57.70	4	17.67	- 0°243	+	0,11	9009	7148	J 554	
ı	1070	150 32 3.24	59.2	5	17.74	- 0.542	1	•••	90/3	,140		
ı		-3- 3- 33/	393~	3	-/ /+	0 2/0		••				
ı	1071	150 57 18.98	59.76	2	17°75	- 0.277	+	0.04	9074	7149	374-J 555	H 28
ı	1072	103 31 40.34	57.67	I	17.76	- 0.511		••	••	••	375	••
ı	1073	98 28 43.66	59.67	35	17.77	- 0.506	+	0.03	•••	7151	376.J 556	1860
	1074	150 48 57.05	59.21	4	17.78	- 0'274		••	••	••	••	•••
	1075	104 0 15.42	57.52	1	17.85	- 0.502	-	0.02	••		••	1863
	1076	106 35 23.78	58.43	4	17.88	- 0'207						
	1077	151 5 32.67	59.65	5	18.05	- 0.254					••	• •
	1078	104 14 15.27	58.15	4	18.06	- 0.196	-	0.04		••	••	1873
	1079	155 40 36.11	59.45	8	18.08	- 0.267	-	0.03	9114	7163	J 559	• •.
	1080	151 17 13.93	59.28	5	18.13	- 0°249		••	••	••	••	••
ı	1081	134 12 33'22	60.34	5	18.51	- 0.513	+	0,01	9138	7172	J 560	
	1082	151 13 22.93	59.21	3	18.22	- 0'241				••		
۱	1083	134 27 50.74	59.77	1	18.23	- 0.515	+	0.04	9140	7173	J 561	
	1084	90 44 6.93	60.21	1	18-24	- 0'179	_	0.03			381.J 562	1878.
I	1085	101 23 34.46	59.07	12	- 18.30	-0.185	_	0.02			J 563	1882.
1											,	
1												

	No.	No. in B.A.C	Magnitude,	Star's Name.	Mean R.A. 1860, Jan. 1.	Mean Year and Fraction of Year,	No. of Obs. of R.A.	Annual Precess. in R.A. for 1860.	Secular Variation of Precess. in R.A.	Annual Proper Motion in R.A.
1					h m s	1800				8
ı	1086	7842	4	17 Piscis Australis B	22 23 32'14	60.43	3	+ 3.428	- 0.0250	+ 0.002
ı	1087		10		22 23 38.25	58.44	4	3.558	- 0.0119	••
ı	1088		8		22 23 58.17	59.48	4	4.076	— o•o866	
ı	1089	7849	6	58 Aquarii	22 24 15.75	57.82	I	3.184	- b.0000	+ 0.006
ı	1090	••	11	•••••	22 25 45'08	59.65	7	4.064	- 0.0869	••
	1091		9.10		22 27 29.70	59.57	5	4.049	- o.o86 ²	
ı	1092	7868	4.3	62 Aquarii η	22 28 9.70	60.05	11	3.080	- 0.0032	+ 0.003
1	1093	7884	5	63 Aquarii κ	22 30 30.58	59'99	3	3.119	- 0.002	- 0.002
١	1094	•••	9		22 30 58.32	59*46	4	4.024	- 0.0872	••
1	1095	••	9	•••••	22 31 16.59	58.44	3	3.513	0.0111	••
	1096	7886	5	Octantis	22 21 20.02	56.27	6	6.708	- 0.6767	- 0.034
ı	1097	7887	6.7	Gruis	55 31 32.01	57.70	I	3.679	- 0.0494	•••
- 1	1098	7898	4	18 Piscis Australis ε	22 32 54.53	60.00	3	3,333	- 0.0198	- 0°007
-1	1099	7904	3	Gruis β		60'21	7	3.607	- 0.0439	+ 0.015
-	1100	7908	3'4	42 Pegasi ζ		58.98	3	2.985	+ 0.0022	+ 0.001
ı										
	IOI	7909	6	19 Piscis Australis	22 34 34'33	60.16	7	3'354	-0.0212	+ 0.003
	1102	7921	6	67 Aquarii,	22 35 55.49	58.72	I	3.137	— o-oo64	0,000
	1103	••	7		22 36 49.98	58.42	4	3.505	- 0.0108	••
	1104	7925	3	Gruis η	22 37 0.80	59.89	4	3.730	- 0 0581	- 0.004
ľ	1105	7946	4	Gruisε	22 40 4.22	59.84	12	3.658	- 0.0223	+ 0.003
	106	7952	6	70 Aquarii	22 41 8.02	58.30	3	3'162	- 0°0082	+ 0.006
1	1107	7954	4	71 Aquarii 72	22 42 10*59	56.85	1	3.186	- 0.0100	- 0.004
ŀ	8011		7		22 42 58.70	58.42	4	3.189	- 0.0101	
ŀ	109	7966	5.4	22 Piscis Australis y	22 44 44.03	59.94	10	3*359	- 0.0245	- 0°004
ŀ	1110	7970	4	73 Aquarii λ	22 45 18.50	56.42	3	3.132	- 0.0064	— o.ooe
1.	1111	7980	3	76 Aquarii δ	22 47 12:08	56.78	2	3,196	- 0,0111	- 0°007
1	111	7980	7.8		22 47 59'37	58.41	3	3.140	- 0.0000	-000/
	113	7992	1.5	24 Piscis Australis a		59.26	40	3.308		+ 0.022
	114	7992	1.1		22 51 19'21	58.45	4	3'172	- 0.0002	
1	115	8008	5		22 52 35.21	59.87	6	3.296	- 0.0232	- 0,011
L									30.	
1	116	8016	6	-	22 54 7.03	57.2	1	3.154	٠, ١	+ 0.005
	117		9.10		22 54 18.04	58.45	3	3.162	- 0.0001	
	118	8020	6	82 Aquarii		58.65	1	3.150		+ 0,001
1	119	8031	5'4	4 Pisciumβ		60.74	2	3.023		+ 0,001
I	120	8034	2.	54 Pegasi	42 57 47.30	58.77	4	+ 2.980	+ 0.0026	+ 0.003
-										

	Mean N.P.D.	Mean Year and Fraction of Year,	f Obs. of .P.D.	Annual	Secular Variation		Annual Proper		No	for reference	
No.	1860,	Yea n of	P. I.	Precess.	of		1otion		e e	n, n	ch ch
	Jan. 1.	an	OZ	N.P.D.	Precess.in N.P.D.		in J.P.D.	Lacaille.	Brisbane,	Fallows or Johnson.	or
		Me	No.	for 1860.	N.P.D.	I N	1.P.D.	Lac	Bris	Fa Joh	Greenwich or Henderson,
-			-			-					-
	0 1 0	1800									
1086	123 3 44'91	60.42	2	- 18.31	- 0.196	+	0°07	9162	7176] 564	1883
1087	105 56 57.26	58.44	4	18.30	- 0.182		••		•••	••	
1088	151 32 8.91	59'41	4	18.35	- 0.534		• •		••		
1089	101 37 16:52	57.82	1	18.33	- 0.181	-	0.01				1887
1090	151 40 14.45	59.65	7	18.38	- 0.556		• •			• •	••
1091	151 43 35'07	59'57	5	18.44	-0'224						
1092	90 50 16.57	59.82	22	18.47	- 0.168	+	0.06			382.J 566	1892
1093	94 56 56.37	59'97	3	18.55	- 0.165	+	0.11			383	1894
1094	151 57 40'79	59.46	4	18.26	- 0'214						
1095	105 32 22'26	58.44	4	18.57	- 0.169		••				
1096	172 6 46.82	56.27	6	18.28	- o.361		0.00	9165	7186	J 567	H 12
1097	140 19 24.75	57.70	I	18.28	- 0,194	+	0.53	9200	7188		••
1098	117 46 21.41	60,00	3	18.62	- 0°172	+	0.09	9206	7193	J 568	••
1099	137 36 54.71	60.51	7	18.67	- 0.184	+	0.04	9211	7194	384.J 569	H 54
1100	79 53 54'03	29.31	9	18.68	- o.121		0.00	••	••	••	1900
1101	120 5 28.85	60.16	7	18.68	- 0'170	+	0,00		7707		1001
1102	97 41(39.71)			18.72	- 0.126	T	0.02		7197	385	1901
1103	105 20 41.45	58'42		18.72	- 0.128			••	••	303	
1104	144 14 6.11	59.86	4 5	18.75	- 0.182		0.00	9223	7203	J 570	• •
1105	142 3 6.35	59.84	13	18.82	- 0'174	+	0.11	9249	7212	386. 571	• •
1103	142 3 0 32	59 04	13	10 05	- 01/4	1	011	9249	1212	300.3 3/1	• •
1106	101 17 36.77	58.30	3	18.88	- o·148	_	0'04	••-			1907
1107	104 19 48.63	56.85	1	18.91	- 0'147	+	0'02				1908
1108	104 47 55.29	58.42	4	18.93	-0.146					••	
1109	123 37 0.89	59'94	10	18.98	- 0.120	+	0'04	9287	7218	J 572	1912
1110	98 19 24.22	28.11	11	19'00	- 0.138	_	0.03		••	388.J 573	1913
1											
IIII	106 33 51.09	56.48	2	19.05	- 0.137		0.00	••	••	389.J 574	1917
1112	104 29 8.08	58.41	3	19'07	- o.136		••	••	••	- **	••
1113	120 21 47'28		123	19.13	- o.132	+	0.18	9314	7225	391.J 575	1920
1114	104 12 53.28	58.45	3	19.19	- 0.159		••	••	••		•••
1115	143 30 13.91	59.87	6	19.19	- 0.144	_	0.02	9322	7229	J 576	
1116	97 48 42*47	57'52	1	19.23	- 0°121	_	0.06			393	1923
1117	103 49 6.36	58.45	3	19.24	- 0'123						
1118	97 19 29 38	58.65	I	19'26	- 0.113	_	0.01				1925
1119	86 55 58.62	60.74	2	19'30	- 0.113	+	0.05				1927
1120	75 32 49'52	59.44	7 -	- 19'32		+	0'02		7239		1929
]	1				1	1		1	

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	No.	No. in B.A.C.	Magnitude.	Star's Name.	ean R.A. 1860, an. 1.	Mean Year and Fraction of Year,	No. of Obs. of R.A.	Annual Precess. in R.A. for 1860.	Secular Variation of Precess. in R.A.	Annual Proper Motion in R.A.
1		-		b	m s	1800	_	8	8	s
Į	1121	8035	6.2	83 Aquarii h ¹ 22		58.83	2	+ 3.152	- 0.0029	+ 0.013
1	1122	8043	5	Gruisθ 22	-1	60.01	9	3.412	- 0.0328	- 0.003
١	1123	8060	6	5 Piscium A 23	1 30.60	60.81	2	3.064	- 0,0006	+ 0,001
١	1124	8067	5	Gruis 23	2 25.06	59.91	6	3.416	- 0.0380	+ 0.002
1	1125	8072	6	Octantis 7 23	5 3.30	58.22	104	13.456	- 7.3697	+ 0.034
1	1126	8085	4.2	90 Aquarii φ 23	7 4.27	59.17	2	3.109	- o.oo4e	+ 0,001
	1127	8093	5	Lacaille 9412 23	8 30.29	59.91	5	3.621	- 0.0291	+ 0.014
1	1128	8098	4	Tucanæ γ 23	9 13,85	60.04	3	3.261	- 0.0620	- 0'012
	1129	8105	4	6 Piscium γ 23	9 54'47	29.81	II	3.029	+ 0.0004	+ 0.044
ı	1130	8109	5.4	93 Aquarii ψ ² 23	10 37.20	57.60	4	3.155	0.0061	0,000
	1131	8116	5	95 Aquarii ψ ³ 23	11 40'59	56.97	3	3,153	- 0.0063	- 0'002
1	1132	8119	6.2		12 8.36	59.52	3	3,101	- 0.0038	+ 0.011
1	1133	8157	5.6	Lacaille 9463 23	17 18.75	60.03	5	3*462	- 0°0586	+ 0.002
ı	1134	8169	5.4	8 Piscium K 23	19 45'34	59.63	7	3.040	- 0,0001	+ 0.002
ı	1135	8186	6	Lacaille 9495 23	22 59.86	60'49	1	3.521	- 0.0310	
1										
1	1136	8201	5	Sculptoris \$ 23		60.56	3	3,535	- 0.0265	+ 0.004
i	1137	8210	5		27 31.98	60.09	5	3.50	- 0.0312	- 0.001
1	1138	8218	6		29 14.65	60.13	3	3.068	+ 0.0000	- 0.006
	1139	8230	5.6		31 56.03	59'92	5	3.50	- 0.0357	- 0.014
1	1140	8233	4.2	17 Piscium 1 23	32 45.09	57*97	4	3.029	+ 0.0050	+ 0.022
1	1141	8243	5	18 Piscium λ 23	34 54.18	58.66	8	3.069	+ 0.0010	-0.011
	1142	8254	6	Lacaille 9574 23	36 30.29	59.88	5	3.513	- 0.0329	
1	1143	8262	6	19 Piscium 23	39 14:30	57.75	2	3.066	+ 0.0021	+ 0.002
	1144	8271	6	20 Piscium 23	40 44.66	56.40	2	3.079	- 0.0010	+ 0.003
	1145	8275	4.2	Sculptoris δ 23	41 37.62	59.76	11	3.131	- 0'0162	+ 0.000
	** , ¢	8281	6	21 Piscium 23	12 77100	57*83	1	3.072	+ 0.0011	+ 0.003
	1146	8290	5		42 17'32	56.40	6	3.821	- 0°3500	- 0.038
	1147	8295	6		43 45 29	58.58	ı	3.069	+ 0'0022	+ 0.004
	1140	0295	8.9		47 28.22	59.68	I	3.075	- 0.0002	
	1150		6		47 58-06	60.02	5	3.064	+ 0.0042	+ 0.002
	1230	1			17 3- 7-			3 .4	13	
	1151	8319	5	-	49 44.96	56.44	6	3.222	- 0.3160	-0.018
	1152	8323	5		50 12.41	59.85	2	3.195	- 0.0680	+ 0.012
	1153	8328	5.6		21 30.30	57.64	2	3.076	- 0.0008	- 0.008
	1154		4		52 7.40	59.48	12	3.062	+ 0.0046	+ 0.010
	1155	8334	5	Tucanæ ε 23	52 36.66	59.93	6	+ 3.111	- 0.0711	- 0,001
1							-	-		

1139. The companion was observed in 1860. The Right Ascension was 0.06 greater than that of the principal Star.

	-	Mean N.P.D. by Sea and Precess.		Secular Annual		No. for reference.					
No.	Mean N.P.D. 1860, Jan. 1.	n Year	of Ol	Precess. in N.P.D.	Variation of Precess.in	M	oper otion in	le,	ne.	ws son.	wich
	Jun. 1.	Mean Y	No.	for 1860.	N.P.D.		P.D.	Lacaille,	Brisbane,	Fallows or Johnson	Greenwich or Henderson
	011	1800		,			,				
1121	98 26 55.18	58.83	2	- 19.32	-0'114	-	0.06		• • •	395	1930
1122	134 16 31.47	60.01	9	19.35	- 0.153	+	0.11	9366	7244	J 577	
1123	88 38 1.27	60.81	2,	19.41	-0.102	-	0.12	••	••	• •	1935
1124	136 0 15.02	60.00	7	19'43	- 0.119	+	0.05	9382	7252	397.J 580	
1125	178 14 55.73	58.25	126	19.48	- 0.428	-	0.05	9225	7241	J 578	H 4
1126	96 48 10.93	59.30	10	19.22	- 0.092	+	0.19	• • •		399.J 582	1942
1127	152 45 47'77	59.92	4	19.22	- 0.110	+	0.03	9412	7266	••	
1128	149 0 9.14	60.04	3	19.57	-0.106	-	0°04	9420	7267	400.J 583	••
1129	87 28 55.42	59.61	26	19.28	- 0.088	+	0.01		7269	••	1947
1130	99 56 45.33	57.60	4	19.59	- 0.089	+	0.05	**	••	401.J 584	1948
1131	100 22 31.41	56.97	3	19.61	- o·o87	-	0.01			J 586	1952
1132	95 53 18.98	59.22	3	19.62	- 0.082	+	0.01			402	1953
1133	147 37 0.60	59.90	4	19.71	- 0.082	-	0.19	9463	7285	••	
1134	89 30 37.55	59.21	36	19.75	- 0.040	+	0.13			407	1962
1135	132 45 26.56	60.12	2	19:79	o.0e8	+	0'14	9495	7296		••
1136	128 35 30.48	60.13	4	19.83	- 0.062	-	0.03	9513	7300	411.J 589	
1137	133 23 18.96	60.02	6	19.85	- 0.028	-	0.03	9523	7304	J 591	
1138	88 40 27.83	60.15	3	19.88	- 0.021	-	0.06			••	1973
1139	137 24 52.28	59.98	8	19.91	- 0.049		0.00	9543	7315	J 592	••
1140	85 7 55.69	59.07	23	19.91	- 0.044	+	0.42			••	1978
1141	88 59 24.50	58.45	10	19.94	- 0.040	+	0.12				1985
1142	135 51 36.27	59.72		19.95	- 0.039		••	9574			
1143	87 17 23.04	57.75	2	19.97	- 0.035	-	0.05				1990
1144	93 32 22.09	56.40	2	19.99	- 0.029	+	0.01			416	1992
1145	118 54 15.16	59°33	16	19.99	- 0.058	+	0.10	9603	7330	417.J 597	1994
1146	89 42 3'42	58.79	7	20'00	- 0.026	+	0.08			••	1995
1147	172 47 48:32	56.40	6	20'01	- 0.031	+	0.05	9607	7334	J 598	H 10
1148	87 50 50.03	58.28	1	20'01	- 0°02 I	-	6.05	••		••	1996
1149	92 44 28.40	59.68	1	20'02	- 0.019		• •			••	••
1150	83 42 26.60	60.02	5	20.03	- 0.012	-	0.05			••	1999
1151	172 56 53.22	56.43	6	20'04	- 0.012	+	0.01	9651	7350	418.J 599	H 9
1152	155 4 31.33	59.85	2	20'04	- 0.011	+	0.03	9661	7352	J 600	••
1153	94 19 56.70	57.64	2	20.04	0.008	+	0.15			419.J 601	2003
1154	83 54 42.21	59.28	27	20'04	- 0.002	+	0.13		••	••	2004
1155	156 21 21.09	59.95	5	- 20.02	- 0.006	-	0.03	9678	7360	420.] 602	••
								-			

No.	No. in B.A.C.	Magnitude,	Star's Name.	Mean R.A. 1860, Jan. 1.	Mean Year and Fraction of Year, No. of Obs. of	Annual Precess. in R.A. for 1860.	Secular Variation of Precess. in R.A.	Annual Proper Motion in R.A.
1156 1157 1158 1159	8346 8349 8368	5:6	30 Piscium	h m a 23 54 38.76 23 54 46.74 23 58 10.13 23 59 10.65	1800 58.02 2 56.73 3 56.70 2 60.48 1	3.076	- 0'0011 - 0'0016 - 0'0016	- 0°002 - 0°002

		Yea	Obs. of .D.	Annual	Secular	Annual	No. for reference.			
No.	Mean N.P.D. 1860, Jan. 1.	Mean Year Fraction of	P N	Precess. in N.P.D. for 1860.	Variation of Precess in N.P.D.	Proper Motion in N.P.D.	Lacaille.	Brisbane.	Fallows or Johnson,	Greenwich or Henderson.
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1156		1800	2	,	- 0'002	+ 0.01	l		10. T 600	2008
1150	93 48 23.40	58.03	2	- 20.02	- 0 002	+ 001		•••	421.J 603	2000
1157	96 47 31.31	56.43	3	20.02	- 0.005	+ 0.04	••	••	J 604	2009
1158	96 29 26.41	56.73	3	20'06	+ 0.002	- o°o3		••	424.J 606	2019
1159	91 27 7.63	60.48	1	- 20'06	+ 0.004	••				

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