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REPORT OF THE SUPERINTENDENT

OF THE

UNITED STATES COAST SURVEY

SHOWING

THE PROGRESS OF THE WORK

FOR THE

FISCAL YEAR ENDING WITH

JUNE, 1876.

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APPENDIX No. 7.

A CATALOGUE OF STARS FOR OBSERVATIONS OF LATITUDE.

The following catalogue supersedes the "*List of Stars for Observations of Latitude*," printed as an Appendix to the Coast Survey Report for 1873, by giving declinations as accurate as obtainable, and right ascensions to the nearest second. It thus furnishes the means of computing at once the results of observations for latitude without waiting for the collating of various astronomical catalogues in order to deduce the best obtainable declinations for the stars observed. For the purpose of a finished reduction it will always be advisable to make such collation, as more recent observations, or the discussions now in progress of systematic errors in existing Star Catalogues, may serve to correct the places contained in the present catalogue, from which, however, very satisfactory results will be obtained.

It has been the custom heretofore in the Coast Survey to select from the British Association's Catalogue the pairs of stars suitable for the determination of latitude, by the method of observing equal meridian zenith-distances with the zenith-telescope. The numbers of the stars so selected for observation at any station were sent to the office, where the mean declinations for the year of observation were obtained by reference to all recent catalogues of precision, comprising the several Greenwich Catalogues, the Washington Observations, the Radcliffe and Armagh, and, where these failed, the Rumker Catalogue. For stars not found in at least two of these catalogues, and those which exhibited large discrepancies in position, express observations were made, by request, at the observatories at Washington and Cambridge.

This practice of deducing the declinations of stars from observations made with different circles and under varied circumstances has led to a great degree of precision in the assumed declinations. The stars used in the method of equal zenith-distances comprise those down to the sixth magnitude, most of which have not been the object of precise determination as standard stars. Still we find that the probable error of the declination of a star derived in the manner above mentioned does not exceed $\pm 0''.3$. And the probable error of one observation with the instruments used being between $0''.3$ and $0''.5$, the observation of sixteen pairs of stars on four nights never fails to reduce the probable error of the latitude below $0''.1$.

The British Association's Catalogue is now very difficult to obtain, and its constants have become obsolete by lapse of time. The continued demand on the office for copies which could not be procured led to the preparation of the catalogue given below, which is intended to replace it as a list of stars available for the observation of latitude by the zenith-telescope in the limits of the United States.

This catalogue comprises all the stars found in the "Bonner Verzeichniss" or "Nördliche Durchmusterung" of Argelander, included in his northern zones and his zone of 1° south declination, and to his sixth magnitude, inclusive.

The list was selected under the direction of Assistant C. S. Peirce, and the names of the stars were assigned by him on the following principles:

1. If the star has a letter assigned by Bayer, it is so designated. If the latitude and longitude correspond with a star of Tycho's Catalogue, this star is considered to be Bayer's. If there was any difficulty in identifying Tycho's star, the identification was guided in several cases by remarks in Argelander's "*De fide Uranometriae Bayeri*." If the star is not in Tycho it was sought in Ptolemy's Catalogue. In such case the identification with Ptolemy has generally been made through the edition of George of Trebizond, which seems to agree very closely in its readings with the one used by Bayer.

Argelander states that Bayer used the edition of Schreckenfuchs. But the identification of Ptolemy with the heavens is based on Mr. Peirce's transcript of the Paris manuscript, an account of which he has presented to the American Academy of Arts and Sciences. If Bayer's star is neither in Tycho nor Ptolemy, it is then identified by its configuration. The letters thus assigned nearly always agree with those given by Argelander and Baily, except where these authorities differ. In regard to the index numbers attached to a few of the letters, Bayer has been followed as to the number of stars having one letter, and they have been numbered in the order of their right ascension at the epoch of Flamsteed's Catalogue. In cases where Bayer indicates only one star, and his star comprehends two, these have been distinguished as preceding (pr.), and following (sq.), or north (bor.), and south (aust.). The Roman letters are always in Roman type.

In the six constellations where Bayer has a Roman α , this letter and the Greek α are preceded by Flamsteed's numbers.

2. If the star is a variable, it has the letter given it by Schönfeld.

3. If the star has no letter assigned by Bayer or Schönfeld, it is designated by Flamsteed's number, when put by him in the same constellation as by Heis. In identifying Flamsteed's stars the authority of Baily has been followed.

4. If the star is in none of these lists, the Durchmusterung zone and number are given. D. M. is the abbreviation used for Durchmusterung. The *magnitudes* have been reduced to a scale of "equable distribution" according to the method explained in Mr. Peirce's Photometric Researches, in the Annals of the Harvard College Observatory.

The places of stars given in this catalogue have been prepared, under the immediate direction of Assistant Hilgard, by Assistant O. H. Tittmann, aided by C. Ferguson, H. W. Blair, J. B. Baylor, A. Braid, and A. H. Scott.

The *right ascensions* are given to nearest seconds of time only, as that is amply sufficient for the special purpose of the catalogue. The right ascensions of a great number of stars are found in other catalogues expressly prepared for observations of time, such as the Coast Survey Standard Mean Places of Fundamental Stars, prepared by Dr. B. A. Gould in 1862, and the Field Catalogue of 983 Transit Stars, prepared by Assistant G. Davidson, and published in 1874. Moreover, the American Ephemeris and Nautical Almanac will be generally used for the determination of time, as it gives ready to hand the apparent places of quite a sufficient number of convenient stars.

It is unnecessary to state in detail the process by which the right ascensions and their annual variations have been deduced, as only the nearest second of time is given; the computations, however, were carried to tenths of seconds.

The *declinations* have been deduced by a comparison of all modern catalogues of precision, notably the following, viz:

Greenwich New Seven-Year Catalogue of 2760 Stars, 1864.

Greenwich Seven-Year Catalogue of 2022 Stars, 1860.

Greenwich Six-Year Catalogue of 1576 Stars, 1850.

Greenwich Twelve-Year Catalogue of 2156 Stars, 1836-1847.

Washington Catalogue of Stars, 1845-1871.

Astronomische Gesellschaft (mean and apparent places of 539 Stars for 1878).

Radcliffe Catalogue of 6317 Stars, for the epoch 1845.

Second Radcliffe Catalogue of 2356 Stars, for the epoch 1860.

Armagh Observatory Catalogue. Places of 5345 Stars, observed from 1828 to 1854.

British Association Catalogue of Stars, reduced to the epoch 1850.

Runkler's Catalogue. Mean places of 12000 Stars for the epoch 1836.

This examination has revealed the fact that there are in the northern heavens numerous stars as bright and brighter than the sixth magnitude, whose places have never been determined with precision, and that there are as many as 250 stars in this list that have either never been observed at all with precision, or that are not found in any catalogue more recent than that of the British Association or Radcliffe (1). Such stars are marked with an asterisk (*) in the present catalogue, and a list of them has been furnished to the principal observatories, with the request that their positions be determined with accuracy.

All other stars have been found in one or more of the recent catalogues of precision, and generally with not less than four observations. Nearly two-thirds of their number had been heretofore used for latitude observations in the Coast Survey, and their positions deduced by a comparison of the catalogues above mentioned. This work had been performed in the Computing Division of the office, under the direction of Assistant C. A. Schott, by Mr. James Main, whose methods were followed in deducing the places of the remaining stars. The large number of results for latitude obtained with the use of declinations so deduced justify the statement made above that the average probable error of the declination of a star as here given will not exceed $\pm 0''.3$.

The *annual precession* in declination was computed for every minute of time by the expression

$$\Delta \delta = 20''.054 \cos \alpha$$

and that belonging to any particular star was obtained by interpolation.

The *proper motions* given in the last column were taken from the Coast Survey Catalogue of Fundamental Stars, from the Seven-Year New Greenwich, the Radcliffe (2), and the British Association Catalogues in that order of preference.

The introduction of thirteen stars omitted from the former list, and the transposition of some in order to preserve the order of right ascension, occasions a difference in the serial numbers of the present list as compared with the former, which must now be considered as entirely superseded.

J. E. HILGARD,

Assistant U. S. Coast Survey, in charge of Office.

REPORT OF THE SUPERINTENDENT OF
CATALOGUE OF STARS FOR OBSERVATIONS OF LATITUDE.

No.	B. A. C.	Constellation.	Mag.	A. R. 1880.	Annual Variation.	Declination 1880.	Annual Precession.	Proper Motion.
				h. m. s.	s.	" "	" "	" "
1	8373	10 Cassiopeæ	5.5	0 00 13	+ 3.08	63 31 41.5	+ 20.05	+ .01
2	4	α Andromedæ	2.0	2 11	3.09	28 25 41.3	20.05	— .15
3	7	β Cassiopeæ	2.3	2 47	3.17	58 29 16.8	20.05	— .17
4	8	87 Pegasi	5.5	2 51	3.09	17 32 42.5	20.05	+ .02
5	14	34 Piscium	5.7	3 52	3.07	10 28 39.8	20.05	— .05
6	16	22 Andromedæ	5.2	4 05	3.10	45 24 15.5	20.05	...
7	.	Andromedæ	5.6	5 42	3.10	47 29 02.8	20.05	...
8*	.	D. M. 22°, 14. . . .	5.8	5 ..	3.09	22 49	20.05	...
9	26	γ Pegasi	2.8	7 03	3.08	14 30 58.9	20.04	+ .00
10	28	23 Andromedæ	6.0	7 17	3.10	40 22 22.5	20.04	— .08
11	32	χ Pegasi	4.9	0 8 24	+ 3.10	19 32 21.6	+ 20.04	+ .02
12*	.	Pegasi	6.0	8 ..	3.09	21 37	20.04	...
13	36	35 Piscium	5.8	8 48	3.08	8 09 15.0	20.04	— .05
14	.	Andromedæ	5.8	10 03	3.11	42 55 44.6	20.04	...
15	46	Cassiopeæ	5.8	10 32	3.20	60 51 58.4	20.03	— .01
16	51	D. M. 47°, 50. . . .	6.0	10 49	3.14	47 16 49.3	20.03	...
17	52	ϑ Andromedæ	4.8	10 49	3.11	38 00 55.7	20.03	— .01
18	58	σ Andromedæ	4.4	12 04	3.12	36 07 11.5	20.02	— .04
19	.	Andromedæ	5.8	12 21	3.12	30 51 04.0	20.02	...
20	60	26 Andromedæ	6.0	12 23	3.14	43 07 29.3	20.02	+ .02
21*	.	Andromedæ	5.8	0 14.5	+ 3.13	32 15	+ 20.01	...
22	67	ρ Andromedæ	5.4	14 48	3.15	37 18 16.2	20.01	— .02
23	79	Cassiopeæ	5.8	17 48	3.20	51 21 17.5	19.99	...
24	83	Cassiopeæ	5.8	18 37	3.21	52 22 53.9	19.99	— .03
25	100	Andromedæ	5.4	21 47	3.19	43 43 51.0	19.96	— .01
26	101	47 Piscium	5.3	21 48	3.12	17 13 43.2	19.96	+ .11
27	102	48 Piscium	5.8	21 59	3.11	15 46 54.5	19.96	+ .01
28*	.	Cassiopeæ	5.8	23.7	3.30	59 18	19.95	...
29	109	28 Andromedæ	5.5	23 48	3.15	29 05 23.8	19.95	— .07
30	120	Andromedæ	5.8	25 03	3.17	32 55 09.2	19.93	...
31	121	λ Cassiopeæ	5.1	0 25 10	+ 3.28	53 51 34.7	+ 19.93	+ .02
32	126	κ Cassiopeæ	4.5	26 11	3.36	62 16 10.3	19.92	+ .02
33	130	52 Piscium	5.4	26 18	3.14	19 38 00.5	19.92	— .03
34	142	D. M. 12°, 57. . . .	5.8	28 42	3.11	12 42 43.0	19.90	+ .03
35	147	14 Ceti	5.9	29 23	3.08	— 1 09 56.2	19.89	— .14
36	146	Cassiopeæ	5.7	29 28	3.31	53 30 26.1	19.89	+ .04
37	148	Cassiopeæ	5.8	29 39	3.36	59 39 54.5	19.89	.00
38	152	Andromedæ	5.3	30 15	3.24	43 49 34.8	19.88	+ .01
39	153	ζ Cassiopeæ	3.8	30 17	3.31	53 14 11.2	19.88	+ .01
40	155	π Andromedæ	4.2	30 28	3.19	33 03 31.3	19.88	+ .02
41*	.	Andromedæ	6.0	0 30.8	+ 3.15	23 21	+ 19.87	...
42	158	Andromedæ	5.7	30 56	3.20	34 44 20.1	19.87	— .04
43	164	ϵ Andromedæ	4.4	32 13	3.15	28 39 37.2	19.85	— .24
44	165	Cassiopeæ	5.6	32 32	3.29	48 41 40.4	19.85	...
45	166	δ Andromedæ	3.5	32 55	3.19	30 12 14.0	19.84	— .11
46	170	55 Piscium	5.4	33 37	3.15	20 46 48.0	19.84	— .01
47	169	α Cassiopeæ	var. 2.5-2.8	33 42	3.37	55 52 44.1	19.84	— .03
48	173	32 Andromedæ	5.1	34 37	3.25	38 48 00.3	19.82	+ .02
49	175	Cassiopeæ	6.0	34 55	3.52	65 29 21.1	19.82	...
50	178	Andromedæ	6.0	35 15	3.20	23 58 16.3	19.82	+ .02

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				h. m. s.	s.	" "	" "	" "
51	180	ξ Cassiopeæ	5.1	0 35 23	+ 3.32	49 51 13.7	+ 19.82	— .05
52	189	π Cassiopeæ	5.3	36 50	3.30	46 22 05.6	19.79	— .01
53	194	21 Cassiopeæ	5.5	37 45	3.84	74 19 54.0	19.78	— .06
54	197	Cassiopeæ	6.0	37 46	3.30	47 12 22.3	19.78	...
55	198	θ Cassiopeæ	5.0	38 03	3.32	47 37 39.1	19.78	— .03
56	201	Cassiopeæ	5.7	38 28	3.40	54 33 49.3	19.78	— .08
57	206	23 Cassiopeæ	5.5	39 47	3.89	74 11 29.3	19.75	— .04
58	211	57 Piscium	5.1	40 16	3.13	14 49 14.3	19.74	— .04
59	213	58 Piscium	5.0	40 46	3.12	11 19 11.6	19.74	+ .06
60	215	ζ Andromedæ	4.3	40 59	3.17	23 36 51.0	19.73	— .07
61	218	η Cassiopeæ	3.5	0 41 51	+ 3.58	57 10 43.8	+ 19.72	— .49
62	219	ν Cassiopeæ	5.1	42 02	3.37	50 18 46.5	19.72	— .07
63	221	Piscium	5.8	42 05	3.13	4 39 47.4	19.72	— 1.18
64	222	δ Piscium	4.4	42 27	3.11	6 55 54.6	19.71	— .05
65	223	δ Piscium	5.5	42 40	3.14	16 17 33.4	19.71	— .16
66	227	ν Andromedæ	4.9	43 12	3.28	40 25 30.7	19.70	— .01
67	229	i Piscium, (1st *) . .	5.3	43 26	3.21	27 03 24.4	19.69	+ .03
68	228	Cassiopeæ	5.7	43 27	3.58	63 35 36.9	19.69	— .03
69	239	Cassiopeæ	5.1	45 55	3.53	60 27 52.5	19.63	+ .05
70	242	20 Ceti	5.0	46 52	3.06	— 1 47 45.7	19.63	— .01
71	244	ν Cassiopeæ	5.0	0 47 53	+ 3.51	58 19 20.1	+ 19.62	— .09
72	247	66 Piscium	5.8	48 14	3.16	18 32 17.3	19.61	+ .04
73	250	36 Andromedæ	5.9	48 33	3.20	22 58 42.9	19.61	.00
74	253	γ Cassiopeæ	2.1	49 29	3.57	60 03 59.0	19.59	+ .02
75*	256	k Piscium	5.8	49 32	3.22	26 33 30.0	19.59	+ .08
76	254	ν Cassiopeæ	5.0	49 32	3.53	58 31 58.0	19.59	...
77	259	μ Andromedæ	4.1	50 06	3.30	37 50 54.3	19.58	+ .05
78	264	η Andromedæ	4.5	50 48	3.19	22 46 09.7	19.56	+ .01
79*	261	Cassiopeæ	5.8	50 56	3.72	65 42 11.3	19.56	.00
80	267	h Piscium	5.8	51 21	3.23	28 20 35.7	19.55	— .01
81	269	Piscium	5.8	0 51 37	+ 3.14	13 02 48.0	+ 19.55	— .05
82	262	Cephei	4.7	52 36	7.10	85 36 44.1	19.53	.00
83	283	39 Andromedæ	6.3	56 10	3.35	40 41 59.2	19.45	...
84*	285	σ Piscium	5.3	56 15	3.27	31 09 37.0	19.44	...
85	288	ϵ Piscium	4.2	56 43	3.11	7 14 37.3	19.44	+ .03
86*	.	Cassiopeæ	6.0	56 56	3.66	60 56	19.44	...
87*	.	D. M. 51°, 220. . . .	5.8	57 ..	3.49	51 51	19.44	...
88	295	26 Ceti (N. star). . .	6.0	57 38	3.08	0 43 22.2	19.42	— .07
89	303	73 Piscium	6.0	58 40	3.11	5 00 46.4	19.40	— .02
90	305	72 Piscium	5.6	58 45	3.16	14 18 01.4	19.40	+ .05
91	307	ψ Piscium (pr.) . . .	4.9	0 59 15	+ 3.21	20 49 48.9	+ 19.39	— .02
92	308	ψ Piscium (sq.) . . .	5.8	59 16	3.21	20 49 20.9	19.39	— .03
93	314	μ Cassiopeæ	5.3	1 00 18	3.93	54 19 51.0	19.36	— 1.55
94	318	41 Andromedæ	5.3	01 08	3.42	43 18 08.9	19.35	— .04
95	322	ψ Piscium	5.5	01 31	3.21	20 06 01.4	19.34	— .10
96	320	Cephei	5.4	1 01 57	4.91	79 02 03.3	19.32	...
97	328	ϵ Piscium	5.5	02 11	3.08	5 00 52.3	19.32	— .19
98	330	ϕ Andromedæ	4.5	02 32	3.45	46 36 05.8	19.31	+ .02
99	327	31 Cassiopeæ	5.8	02 33	3.97	68 08 23.0	19.31	— .01
100	334	β Andromedæ	2.4	03 01	3.34	34 59 02.9	19.30	— .09

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No.	B.A.C.	Constellation.	Mag.	A. R. 1880.	Annual Variation.	Declination 1880.	Annual Precession.	Proper Motion.
				h. m. s.	s.	"	"	"
101	336	ψ Piscium	5.5	1 03 25	+ 3.21	19 01 14.2	+ 19.29	.00
102*	335	Cassiopeæ	5.8	03.7	3.81	63 34	19.28	...
103	339	ϑ Cassiopeæ	4.6	03 48	3.61	51 30 40.4	19.28	...
104*	...	Piscium	5.8	03.8	3.24	24 50	19.28	...
105	338	32 Cassiopeæ	5.8	03 53	3.78	64 22 48.8	19.28	-.01
106	344	33 Ceti	6.0	04 23	3.08	1 48 23.6	19.27	-.02
107	343	45 Andromedæ	5.8	04 25	3.31	37 05 08.5	19.27	+ .06
108	345	g Piscium	5.3	04 30	3.30	30 47 08.2	19.26	-.03
109	348	χ Piscium	4.6	05 00	3.21	20 23 45.9	19.25	-.01
110	349	τ Piscium	4.2	05 03	3.29	29 27 07.6	19.25	-.03
111	365	ϕ Piscium	4.5	1 07 14	+ 3.25	23 56 54.0	+ 19.20	+ .03
112	368	ζ Piscium (1st *)	4.9	07 28	3.13	6 56 24.8	19.19	-.06
113	363	Cassiopeæ	6.0	07 36	4.20	71 06 29.9	19.19	+ .02
114	374	38 Ceti	5.7	08 41	3.05	- 1 36 58.0	19.16	+ .21
115	388	f Piscium	5.2	11 36	3.09	2 58 56.5	19.08	-.02
116	395	v Piscium	4.5	12 52	3.28	26 37 58.9	19.06	+ .05
117	393	Cephei	5.8	13 16	5.08	78 05 48.6	19.04	...
118	400	42 Ceti	5.8	13 40	3.07	- 1 08 22.5	19.02	-.01
119	401	l Piscium	4.9	14 29	3.30	28 06 39.7	19.00	-.05
120	360	σ Ursæ Minoris	2.1	14 46	21.64	88 40 08.9	18.99	.00
121	404	ξ Andromedæ	4.9	1 15 17	+ 3.50	44 53 57.7	+ 18.98	-.01
122	409	47 Andromedæ	5.8	16 49	3.42	37 05 17.9	18.94	+ .02
123	412	ψ Cassiopeæ	5.0	17 28	4.15	67 30 10.3	18.92	+ .02
124	416	δ Cassiopeæ	2.7	17 59	3.87	59 36 39.4	18.90	-.04
125	425	Andromedæ	6.2	19 16	3.50	42 50 05.4	18.86	-.04
126	427	ρ Piscium	5.1	19 47	3.22	18 32 49.3	18.85	+ .02
127	431	94 Piscium	5.8	20 13	3.23	18 37 06.2	18.84	-.01
128	432	ω Andromedæ	5.1	20 29	3.56	44 47 11.8	18.83	-.10
129*	...	D. M. 40°, 289	5.8	20.5	3.47	40 29	18.83	...
130*	...	Cassiopeæ	6.0	22.5	4.11	65 29	18.77	...
131	441	Andromedæ	5.5	1 22 54	+ 3.56	46 23 15.9	+ 18.75	-.03
132	448	μ Piscium	4.9	23 54	3.14	5 31 26.7	18.72	-.18
133	453	η Piscium	3.9	25 04	3.20	14 43 37.0	18.69	+ .02
134	456	χ Cassiopeæ	5.6	26 06	3.87	58 36 55.6	18.65	-.03
135	468	40 Cassiopeæ	5.2	28 57	4.66	72 25 39.5	18.56	+ .02
136	480	v Andromedæ	4.3	29 46	3.49	40 48 17.3	18.54	-.37
137	482	Cassiopeæ	5.8	30 17	3.87	57 21 55.7	18.52	...
138	487	v Persei	3.8	30 38	3.65	48 01 10.5	18.51	-.14
139	488	π Piscium	5.6	30 44	3.17	11 31 38.6	18.50	+ .03
140	492	χ Andromedæ	5.2	32 09	3.57	43 46 30.3	18.45	...
141	501	Andromedæ	5.9	1 33 28	+ 3.56	42 41 25.8	+ 18.41	...
142	502	τ Andromedæ	5.6	33 30	3.52	39 58 05.5	18.41	-.09
143	499	42 Cassiopeæ	5.6	33 39	4.55	70 00 54.5	18.40	-.02
144	510	Andromedæ	5.2	34 29	3.63	42 00 40.2	18.37	-.06
145*	...	D. M. 25°, 276	5.8	34.6	3.32	25 08	18.37	...
146	514	Trianguli	5.8	34 53	3.37	29 26 24.2	18.36	+ .14
147	516	Trianguli	5.8	35 08	3.45	34 38 22.6	18.35	...
148	518	v Piscium	4.7	35 11	3.12	4 52 47.0	18.35	-.04
149	515	44 Cassiopeæ	5.7	35 13	4.02	59 56 42.2	18.35	-.03
150	523	107 Piscium	5.3	35 59	3.25	19 41 05.1	18.32	-.66

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No.	B. A. C.	Constellation.	Mag.	A. R. 1880.	Annual Variation.	Declination 1880.	Annual Precession.	Proper Motion.
				h. m. s.	s.	"	"	"
151	522	ϕ Persei	4.5	1 36 09	+ 3.73	50 05 00.1	+ 18.31	-.03
152	537	σ Piscium	4.3	39 04	3.16	8 33 11.4	18.21	+ .04
153	544	D. M. 37°, 372	5.8	41 34	3.51	37 21 17.5	18.12	+ .01
154	546	4 Arietis	5.8	41 40	3.25	16 21 28.2	18.11	+ .04
155	556	1 Arietis	5.8	43 31	3.31	21 40 44.4	18.04	+ .09
156	558	1 Persei	5.6	44 07	3.90	54 33 07.1	18.02	-.05
157	561	Arietis	5.6	44 30	3.17	10 26 54.0	18.00	-.07
158	564	ϵ Cassiopeæ	3.4	45 47	4.25	63 04 41.7	17.96	...
159	566	55 Andromedæ	5.6	46 05	3.57	40 08 11.5	17.94	-.05
160	569	α Trianguli	3.5	46 15	3.40	28 59 37.3	17.94	-.21
161	568	ω Cassiopeæ	5.1	1 46 42	+ 4.56	68 05 40.3	+ 17.92	-.03
162	572	γ Arietis (North Star) . .	3.8	46 57	3.28	18 42 17.5	17.91	-.11
163	574	ξ Piscium	4.3	47 21	3.10	2 35 39.1	17.89	-.08
164	577	β Arietis	2.6	48 01	3.30	20 13 15.2	17.87	-.09
165	579	56 Andromedæ (pr.) . . .	5.8	48 49	3.54	36 41 19.4	17.84	+ .01
166	580	56 Andromedæ (sq.) . . .	5.8	49 02	3.54	36 39 45.5	17.83	+ .04
167	592	ϵ Arietis	5.5	50 48	3.26	17 13 52.7	17.76	-.04
168	588	Cassiopeæ	5.8	50 48	4.35	64 02 12.3	17.76	...
169	593	λ Arietis	4.9	51 13	3.33	23 00 36.1	17.74	...
170	595	A Cassiopeæ	4.6	52 08	4.83	70 19 26.0	17.70	-.01
171	597	47 Cassiopeæ	5.1	1 53 09	+ 5.78	76 42 12.1	+ 17.66	-.02
172	600	50 Cassiopeæ	4.1	53 13	4.99	71 50 22.1	17.66	.00
173	610	52 Cassiopeæ	5.8	53 57	4.40	64 19 15.5	17.62	-.02
174	608	49 Cassiopeæ	5.1	54 06	5.54	75 32 13.2	17.62	+ .02
175	611	53 Cassiopeæ	5.9	54 08	4.37	63 48 35.0	17.62	+ .02
176	614	4 Persei	4.9	54 19	3.95	53 54 23.7	17.61	+ .01
177	625	α Piscium (sq.)	3.6	55 50	3.09	2 11 00.3	17.55	-.02
178	624	ϵ Trianguli	5.5	55 58	3.49	32 42 18.4	17.54	...
179	628	γ Andromedæ	2.2	56 32	3.65	41 45 10.8	17.52	-.06
180	630	10 Arietis	5.7	56 51	3.39	25 21 22.2	17.50	-.03
181	633	60 Ceti	5.7	1 57 02	+ 3.08	- 0 27 02.5	+ 17.50	-.02
182	644	κ Arietis	5.5	59 51	3.35	22 04 32.9	17.38	+ .04
183	648	α Arietis	2.2	2 00 25	3.37	22 53 39.7	17.35	-.13
184	649	58 Andromedæ	5.0	01 15	3.60	37 17 21.2	17.31	-.03
185	653	Persei	5.8	02 05	3.95	53 16 31.1	17.28	-.02
186	656	β Trianguli	3.1	02 24	3.55	34 25 08.3	17.26	-.05
187	657	14 Arietis	4.9	02 36	3.40	25 22 15.3	17.25	-.08
188	665	15 Arietis	5.7	03 59	3.31	18 56 00.8	17.19	-.05
189	668	55 Cassiopeæ	6.1	05 05	4.62	65 57 38.8	17.14	.00
190	675	6 Trianguli (1st star) . . .	5.0	05 25	3.47	29 44 23.9	17.13	-.05
191	676	b Andromedæ	4.9	2 05 42	+ 3.74	43 40 04.0	+ 17.11	-.04
192	682	η Arietis	5.4	06 05	3.34	20 38 47.0	17.09	+ .01
193	683	19 Arietis	5.7	06 31	3.26	14 43 00.8	17.07	-.02
194	684	ξ Ceti	4.5	06 38	3.17	8 16 58.7	17.07	-.01
195	691	7 Trianguli	5.2	08 51	3.53	32 48 01.6	16.97	-.01
196	693	21 Arietis	5.7	08 54	3.39	24 29 09.5	16.96	-.07
197	697	δ Trianguli	5.0	09 44	3.64	33 40 27.7	16.93	-.25
198	698	γ Trianguli	4.2	10 11	3.55	33 17 30.4	16.90	-.02
199	707	θ Arietis	5.7	11 27	3.33	19 20 42.9	16.84	-.01
200	706	c Andromedæ	5.6	11 33	3.84	46 49 31.2	16.84	-.02

REPORT OF THE SUPERINTENDENT OF
CATALOGUE OF STARS FOR OBSERVATIONS OF LATITUDE.

No.	B. A. C.	Constellation.	Mag.	A. R. 1880.	Annual Variation.	Declination 1880.	Annual Precession.	Proper Motion.
				h. m. s.	s.	" "	" "	" "
201	708	Ceti	5.7	2 11 47	+ 3.10	1 11 22.6	+ 16.83	+ .36
202	710	10 Trianguli	5.4	12 00	3.47	28 05 17.1	16.82	...
203*	...	Arietis	6.0	12.2	3.77	22 37	16.81	...
204	721	i Persei	5.4	14 00	4.13	55 17 44.1	16.82	...
205	729	69 Ceti	5.5	15 48	3.07	- 0 09 12.7	16.63	- .05
206	733	70 Ceti	5.5	16 06	3.05	- 1 25 54.7	16.62	- .03
207	731	64 Andromedæ	5.4	16 27	3.95	49 27 39.9	16.60	- .05
208	735	65 Andromedæ	4.9	17 38	3.97	49 44 02.7	16.55	- .06
209	745	5 Arietis	5.3	18 23	3.20	10 03 57.3	16.51	- .05
210†	744	4 Cassiopeæ	4.4	19 12	4.85	66 51 40.8	16.47	- .02
211	752	11 Trianguli	5.5	2 20 21	+ 3.53	31 15 42.8	+ 16.41	- .02
212	757	12 Trianguli	5.3	21 08	3.50	29 07 57.8	16.37	- .09
213	760	5 Ceti	4.3	21 47	3.18	7 55 16.7	16.33	- .02
214*	...	Arietis	5.8	22.4	3.40	22 56	16.30	...
215	772	14 Trianguli	5.4	24 47	3.64	35 36 49.7	16.18	- .01
216	776	Ceti	5.6	25 18	3.09	1 44 05.8	16.16	...
217	778	75 Ceti	5.5	26 03	3.05	- 1 33 56.4	16.12	- .06
218	777	115 Cassiopeæ	5.1	26 39	5.57	72 17 30.1	16.09	+ .01
219	...	Persei	5.8	28 15	3.67	36 47 10.2	16.00	...
220	786	15 Trianguli	5.4	28 30	3.62	34 09 47.0	15.99	- .04
221	794	v Ceti	5.0	2 29 35	+ 3.14	5 04 07.5	+ 15.93	- .03
222	798	31 Arietis	5.1	30 05	3.26	11 55 35.2	15.91	- .09
223	784	Cephei	5.7	30 35	8.21	80 56 16.6	15.88	...
224	808	v Arietis	5.5	32 00	3.39	21 26 29.8	15.80	- .02
225	811	δ Ceti	3.9	33 20	3.07	- 0 11 24.7	15.73	- .03
226	813	33 Arietis	5.3	33 40	3.49	26 32 43.3	15.71	+ .01
227	816	11 Persei	5.8	34 28	4.25	54 35 33.1	15.67	- .03
228	819	Persei	6.0	34 32	4.18	53 00 47.6	15.66	...
229	821	12 Persei	5.1	34 41	3.76	39 41 08.3	15.66	- .18
230	825	μ Arietis	5.6	35 36	3.37	19 29 57.4	15.61	- .01
231	827	θ Persei	4.3	2 36 00	+ 4.06	48 43 09.8	+ 15.58	- .10
232	829	14 Persei	5.7	36 17	3.89	43 47 08.6	15.57	- .01
233	831	35 Arietis	4.9	36 25	3.50	27 11 44.1	15.56	+ .02
234	837	γ Ceti	3.4	37 05	3.10	2 43 45.3	15.52	- .15
235	842	o Arietis	5.8	37 56	3.30	14 48 08.9	15.43	- .07
236	844	38 Arietis	4.9	38 25	3.26	11 56 23.1	15.45	- .10
237	845	μ Ceti	4.1	38 27	3.23	9 36 22.8	15.45	- .05
238	861	39 Arietis	4.9	40 46	3.55	28 44 52.9	15.32	- .11
239	866	Arietis	5.7	41 47	3.48	24 41 11.3	15.26	- .01
240	867	40 Arietis	6.0	41 49	3.35	17 46 57.3	15.26	- .02
241	863	η Persei	4.3	2 41 57	+ 4.33	55 23 46.4	+ 15.25	...
242	870	π Arietis	5.4	42 36	3.34	16 57 52.6	15.21	+ .02
243	872	41 Arietis	3.7	42 55	3.51	26 45 53.4	15.20	- .13
244	871	16 Persei	4.6	43 01	3.76	37 49 26.1	15.19	- .07
245*	...	Persei	6.0	43.7	3.99	46 21	15.15	...
246	877	17 Persei	4.7	44 07	3.68	34 33 51.8	15.13	- .11
247	881	σ Arietis	5.6	44 52	3.30	14 35 11.4	15.08	- .05
248	885	τ Persei	4.1	45 45	4.21	52 16 12.1	15.04	- .01
249	888	20 Persei	5.6	46 08	3.77	37 50 51.3	15.01	- .07
250*	...	D. M. 60°, 591	5.8	46.4	4.68	61 02	14.99	...

†Triple.

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				h. m. s.	s.	" "	" "	" "
251	897	D. M. 46°, 658	5.8	2 43 27	+ 4.02	46 40 34.5	+ 14.87	...
252	901	ρ Arietis (pr.)	6.0	49 04	3.36	17 50 40.3	14.84	+ .01
253	904	21 Persei	4.9	50 01	3.62	31 26 59.8	14.78	+ .02
254	896	Cephei	5.6	50 12	7.68	78 56 31.0	14.77	+ .01
255	912	π Persei	4.9	51 05	3.82	39 10 53.3	14.72	- .03
256	913	47 Arietis	5.6	51 13	3.42	20 11 11.2	14.71	- .03
257	915	24 Persei	5.2	51 38	3.70	34 42 01.5	14.69	- .07
258	914	Persei	5.7	51 41	4.04	46 44 18.5	14.68	...
259	918	Persei	5.3	52 20	4.25	51 52 25.9	14.65	+ .05
260	921	ε Arietis	4.4	52 21	3.42	20 51 34.1	14.65	- .02
261	908	Cephei	5.6	2 53 12	+ 8.82	81 00 11.9	+ 14.59	+ .02
262	929	λ Ceti	4.7	53 17	3.22	8 25 42.5	14.59	- .03
263	941	49 Arietis	5.6	54 50	3.52	25 59 11.2	14.50	- .01
264	949	α Ceti	2.6	56 00	3.13	3 37 04.6	14.43	- .09
265	947	γ Persei	3.1	56 07	4.30	53 02 06.7	14.42	...
266	948	k Persei	4.9	56 32	4.46	56 13 59.2	14.39	+ .08
267*	...	Cassiopeæ	6.0	57.3	4.95	63 36	14.34	...
268	953	ρ Persei	var. 3.5-4.0	57 29	3.82	38 22 28.3	14.33	- .08
269	957	52 Arietis	5.6	58 25	3.51	24 47 12.6	14.28	- .03
270	955	Cassiopeæ	5.4	58 56	6.34	73 56 08.4	14.25	- .07
271*	...	Arietis	5.4	59.8	+ 3.29	12 44	+ 14.19	...
272	963	β Persei	var. 2.3-4.0	3 00 22	3.87	40 29 32.1	14.16	+ .01
273	962	ι Persei	4.4	00 25	4.30	49 09 13.5	14.16	...
274	967	κ Persei	4.0	01 21	4.02	44 24 05.7	14.09	- .15
275	974	55 Arietis	5.8	02 24	3.60	28 37 03.5	14.03	+ .02
276	980	Arietis	6.0	03 20	3.55	26 26 07.9	13.97	...
277	981	ω Persei	4.8	03 33	3.85	39 09 16.6	13.96	+ .02
278	960	Cephei	5.8	04 08	13.03	84 28 53.5	13.92	- .12
279	986	δ Arietis	4.3	04 46	3.42	19 16 18.4	13.88	...
280	994	94 Ceti	5.3	06 39	3.06	- 1 38 46.4	13.76	- .08
281*	...	Persei	5.8	3 06.6	+ 4.55	56 41	+ 13.77	...
282	995	Persei	5.3	07 38	4.26	50 29 28.0	13.70	...
283	999	ζ Arietis	4.6	08 00	3.44	20 35 55.7	13.68	- .07
284*	...	Persei	5.7	08 02	3.64	30 06 31.9	13.68	...
285	1001	Camelopardalis	4.6	09 27	5.19	65 12 41.0	13.58	- .03
286	1006	30 Persei	5.8	09 43	4.01	43 34 57.3	13.57	- .04
287	1007	29 Persei	5.5	10 05	4.25	49 46 51.4	13.54	- .06
288	1011	31 Persei	5.5	10 36	4.24	49 39 17.3	13.51	- .04
289	1017	Persei	4.9	11 14	3.74	33 46 52.3	13.47	- .07
290	1023	59 Arietis	5.8	12 46	3.57	26 38 10.2	13.37	- .02
291	1028	κ Ceti	5.1	3 13 04	+ 3.14	2 55 39.9	+ 13.35	- .02
292	1025	Arietis	5.0	13 06	3.64	28 36 43.5	13.35	- .06
293	1026	l Persei	5.2	13 24	4.00	42 53 40.3	13.33	- .01
294	1030	Camelopardalis	5.8	14 16	5.15	64 09 15.3	13.27	- .09
295	1034	τ Arietis	4.9	14 18	3.45	20 42 48.0	13.27	- .03
296	1040	62 Arietis	5.5	15 00	3.59	27 10 34.1	13.22	...
297	1043	α Persei	2.0	15 46	4.25	49 25 56.5	13.17	- .05
298	1045	63 Arietis	5.0	15 51	3.44	20 18 41.6	13.17	- .02
299*	...	Persei	5.6	17 ..	3.73	33 06	13.09	...
300	1052	64 Arietis	5.6	17 13	3.53	24 17 51.3	13.08	- .07

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301	1053	65 Arietis	5.6	3 17 31	+ 3.45	20 22 35.5	+ 13.06	-.02
302*		Tauri	6.0	17.6	3.29	12 12	13.05	...
303	1057	10 Tauri	3.8	18 21	3.22	8 36 19.9	13.00	-.10
304	1058	Camelopardalis	4.5	19 22	4.81	59 31 14.5	12.93	+ .04
305	1059	Persei	5.4	19 32	4.24	48 38 32.6	12.92	-.06
306	1062	Camelopardalis	4.9	20 20	4.75	58 27 40.2	12.87	+ .03
307	1068	5 Tauri	3.9	20 40	3.24	9 18 46.8	12.84	-.04
308	1066	34 Persei	5.1	20 47	4.26	49 05 29.5	12.84	-.06
309*		Persei	5.8	20.8	3.75	33 23	12.84	...
310	1065	Camelopardalis	4.8	20 52	4.54	55 02 03.9	12.83	-.12
311	1069	66 Arietis	5.9	3 21 26	+ 3.50	22 23 20.2	+ 12.80	-.14
312	1071	σ Persei	4.6	22 07	4.20	47 34 45.4	12.75	.00
313	1084	s Tauri	5.2	23 51	3.27	10 55 23.9	12.63	-.05
314*		Tauri	5.6	24.1	3.60	27 09	12.62	...
315	1083	36 Persei	5.5	24 08	4.13	45 38 54.6	12.61	-.08
316	1087	f Tauri	4.2	24 15	3.31	12 31 27.6	12.60	-.03
317*		Camelopardalis	6.0	24.5	4.53	54 33	12.58	...
318*		Persei	5.8	25.0	3.80	35 03	12.55	...
319		Persei	5.8	25 41	3.93	39 39 38.8	12.50	...
320	1061	Cephei	5.6	27 38	21.67	86 15 56.3	12.37	...
321	1099	ψ Persei	4.6	3 27 58	+ 4.24	47 47 29.9	+ 12.35	-.04
322	1112	10 Tauri	4.3	30 45	3.06	0 01 10.4	12.16	-.52
323	1111	Camelopardalis	5.3	31 45	5.15	62 49 33.3	12.09	+ .08
324*		Tauri	6.0	32.0	3.47	20 31	12.07	...
325	1119	Tauri	5.8	32 39	3.39	16 08 40.6	12.04	-.06
326*	1117	Camelopardalis	6.0	32 49	4.89	59 35	12.01	...
327	1123	Persei	5.6	33 20	3.91	37 11 30.7	11.98	+ .07
328	1128	12 Tauri	5.8	33 36	3.12	2 39 56.0	11.96	+ .01
329	1129	d Persei	3.2	34 23	4.24	47 24 08.2	11.97	-.05
330	1132	40 Persei	4.9	34 46	3.79	33 34 43.5	11.87	.00
331	1135	13 Tauri	5.5	3 35 24	+ 3.45	19 18 53.0	+ 11.83	-.01
332	1133	Camelopardalis	5.3	35 33	5.19	62 57 47.1	11.82	-.07
333*		Camelopardalis	5.2	36.8	6.14	70 30	11.73	...
334		Persei	5.6	36 46	3.86	36 04 48.1	11.73	...
335	1138	380 Perse	3.9	36 48	3.74	31 54 25.2	11.73	+ .03
336	1140	14 Tauri	6.0	36 51	3.46	19 17 03.8	11.73	-.05
337	1139	ν Persei	4.0	37 03	4.05	42 11 52.3	11.71	-.03
338	1137	Camelopardalis	4.3	37 43	6.22	70 57 36.8	11.67	-.03
339	1147	17 Tauri	4.5	37 45	3.55	23 44 04.9	11.66	-.04
340	1151	q Tauri	4.9	38 04	3.56	24 05 22.2	11.64	-.06
341	1153	24 Eridani	5.4	3 38 25	+ 3.04	- 1 32 33.4	+ 11.62	-.01
342	1144	Camelopardalis	4.6	38 33	5.42	65 09 11.0	11.61	-.01
343	1154	20 Tauri	4.8	38 41	3.56	23 59 28.9	11.60	-.04
344	1161	23 Tauri	4.6	39 12	3.55	23 34 23.9	11.56	-.03
345	1162	u Tauri	5.4	39 18	3.18	5 40 22.6	11.56	-.04
346*		Persei	6.0	39 28	4.39	50 21 46.0	11.54	...
347	1166	7 Tauri	2.8	40 21	3.55	23 43 58.0	11.48	-.06
348	1174	e Tauri	5.0	41 41	3.28	10 46 21.1	11.38	-.05
349	1172	Persei	6.0	41 43	4.16	44 35 59.7	11.38	.00
350	1175	n Persei	5.5	41 58	3.78	32 43 19.5	11.36	-.01

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				h. m. s.	s.	" "	" "	" "
351	1176	27 Tauri	4.2	3 42 02	+ 3.55	23 41 05.8	+ 11.36	-.07
352	1192	Tauri	5.8	43 06	3.60	25 12 54.1	11.28	-.25
353*		Camelopardalis	6.0	44 ..	4.82	57 36	11.21	...
354	1207	ζ Persei	2.9	46 35	3.78	31 31 33.4	11.02	-.02
355	1203	Camelopardalis	5.4	46 51	5.22	62 43 07.4	11.01	+ .05
356	1204	Camelopardalis	5.7	46 55	5.07	60 45 21.2	11.00	+ .06
357	1210	Persei	5.7	47 20	4.29	47 31 02.1	10.97	.00
358	1214	A Persei	5.6	47 41	4.43	50 20 45.5	10.94	-.16
359	1221	32 Tauri	5.8	49 47	3.54	22 07 50.4	10.79	-.14
360	1219	ε Persei	3.1	49 48	4.00	39 39 41.5	10.79	-.03
361	1211	Cephei	4.9	3 50 01	+ 9.72	80 21 53.9	+ 10.77	+ .05
362	1228	ξ Persei	4.1	51 11	3.88	35 26 40.3	10.69	-.04
363	1240	Tauri	5.8	53 54	3.44	17 51 14.9	10.49	-.03
364*		Camelopardalis	5.8	54.0	5.94	68 20	10.48	...
365	1241	λ Tauri	var. 3.5-4.0	54 02	3.32	12 09 00.3	10.48	-.02
366	1237	Camelopardalis	5.1	54 28	4.95	58 49 11.8	10.44	-.01
367*	1244	Tauri	5.7	55 13	3.27	9 39 35.0	10.39	...
368	1245	35 Eridani	5.4	55 27	3.03	- 1 53 15.1	10.37	-.05
369	1251	ν Tauri	4.1	56 46	3.19	5 39 18.7	10.27	-.01
370	1253	36 Tauri	5.9	57 11	3.58	23 46 27.5	10.24	+ .01
371		D. M. 53°, 732	5.8	3 57 16	+ 4.63	53 41 01.4	+ 10.23	...
372		Tauri	5.7	57 26	3.22	7 51 50.7	10.22	...
373	1257	A Tauri	4.8	57 37	3.53	21 45 08.6	10.20	-.09
374	1254	λ Persei	4.7	57 38	4.44	50 01 25.0	10.20	-.06
375*		Tauri	5.7	57.9	3.12	2 30	10.19	...
376	1262	41 Tauri	5.1	59 15	3.67	27 16 31.0	10.08	-.02
377	1265	ψ Tauri	5.3	59 36	3.70	28 40 31.9	10.06	+ .02
378*		D. M. 54, 740	5.8	59.9	4.70	54 30	10.04	...
379	1266	c Persei	4.5	49 57	4.33	47 23 24.9	10.03	-.05
380	1268	49 Persei	5.7	4 00 20	3.95	37 24 40.2	10.00	-.14
381	1247	Cephei	5.1	4 00 32	+ 13.26	83 30 36.0	+ 9.98	...
382	1269	50 Persei	5.5	00 37	3.99	37 43 26.8	9.98	-.20
383	1272	Tauri	5.6	01 07	3.43	17 01 04.2	9.94	-.01
384	1279	p Tauri	5.7	03 32	3.64	26 09 59.3	9.76	.00
385*	1263	Cephei	5.1	03 46	12.65	83 03	9.74	...
386	1285	45 Tauri	5.8	04 57	3.19	5 12 33.3	9.65	-.05
387		Tauri	6.0	05.6	3.43	16 58	9.60	...
388	1289	D. M. 22°, 649	5.8	05 44	3.55	22 06 13.0	9.59	+ .05
389	1287	μ Persei	4.4	06 05	4.37	48 06 08.1	9.56	-.06
390*		Persei	6.0	06.1	3.98	37 39	9.56	...
391	1276	Cephei	5.6	4 06 14	+ 10.12	80 32 10.7	+ 9.55	...
392	1286	Camelopardalis	5.4	06 20	5.24	61 32 46.6	9.54	-.01
393	1291	f Persei	4.9	06 44	4.07	40 10 40.3	9.51	-.07
394	1296	6 Tauri	5.4	07 05	3.22	7 24 30.0	9.48	+ .01
395		D. M. 12°, 564	5.8	07 09	3.33	12 26 49.9	9.48	...
396	1293	Camelopardalis	4.9	07 21	4.65	53 18 28.8	9.46	-.06
397	1298	47 Tauri	4.9	07 25	3.26	8 57 28.3	9.46	-.08
398		Tauri	5.5	08 03	3.27	9 42 26.4	9.41	...
399	1304	μ Tauri	4.4	09 01	3.25	8 35 25.9	9.34	-.02
400	1301	b Persei	5.0	09 14	4.49	49 59 54.4	9.32	-.05

REPORT OF THE SUPERINTENDENT OF
CATALOGUE OF STARS FOR OBSERVATIONS OF LATITUDE.

No.	B. A. C.	Constellation.	Mag.	A. R. 1880.	Annual Variation.	Declination 1880.	Annual Precession.	Proper Motion.
401	1300	Camelopardalis . . .	5.8	h. m. s. 4 09 24	s. + 5.58	" " " 64 50 41.2	" " + 9.31	" " - .03
402	1307	D. M. 49°, 1155 . . .	5.8	10 13	4.47	49 45 17.7	9.25	...
403	1311	ω Tauri	5.3	10 14	3.51	20 16 53.6	9.25	- .06
404	1316	51 Tauri	5.8	11 17	3.54	21 17 04.9	9.24	- .05
405	1313	Camelopardalis . . .	5.5	11 23	5.18	60 26 53.6	9.23	- .07
406	1324	56 Tauri	5.7	12 30	3.55	21 28 58.0	9.06	- .01
407	1322	54 Persei	5.2	12 37	3.88	34 16 31.1	9.06	- .04
408	1323	d Persei	5.3	12 52	4.32	46 12 36.9	9.03	- .05
409	1328	γ Tauri	4.0	12 58	3.41	15 20 11.6	9.03	- .00
410	1326	φ Tauri	5.3	12 58	3.67	27 03 44.2	9.03	- .07
411	1330	h Tauri	5.6	4 13 12	+ 3.38	13 44 38.8	+ 9.01	- .01
412	...	Tauri	6.0	13 27	3.47	18 27 14.8	8.99	...
413	1332	58 Tauri	5.8	13 48	3.40	14 48 21.6	8.96	- .05
414†	1341	χ Tauri	5.5	15 17	3.64	25 20 40.3	8.85	- .01
415	1343	60 Tauri	5.6	15 18	3.37	13 47 31.0	8.85	- .01
416	1346	δ Tauri	4.1	16 01	3.46	17 15 35.0	8.79	- .03
417	1350	63 Tauri	5.9	16 32	3.44	16 29 44.7	8.75	+ .01
418	1349	55 Persei	5.8	16 42	3.88	33 51 03.4	8.73	- .05
419	1352	56 Persei	5.9	16 51	3.88	33 40 53.7	8.72	- .08
420	1356	64 Tauri	5.1	17 11	3.45	17 09 53.5	8.70	.00
421	1357	τ Tauri	5.1	4 17 19	+ 3.27	9 10 48.3	+ 8.69	- .05
422	1362	κ Tauri	4.5	18 13	3.57	22 01 04.0	8.62	- .05
423	1363	67 Tauri	5.9	18 16	3.57	21 55 26.1	8.61	- .02
424	1364	Persei	5.2	18 28	3.81	31 09 59.7	8.59	- .12
425	1365	68 Tauri	4.8	18 33	3.46	17 39 07.7	8.59	+ .01
426	1367	ν Tauri	4.6	19 08	3.58	22 32 23.6	8.54	- .05
427	1369	71 Tauri	5.3	19 31	3.41	15 20 38.2	8.51	- .04
428	...	Camelopardalis . . .	5.8	19 37	6.85	72 16 03.0	8.51	...
429	1370	π Tauri	4.9	19 50	3.38	14 26 27.7	8.49	- .03
430*	...	Tauri	6.0	21.3	3.78	30 07	8.37	...
431	1377	75 Tauri	5.5†	4 21 35	+ 3.42	16 05 24.5	+ 8.35	+ .04
432	1376	ε Tauri	3.8	21 37	3.50	18 54 47.4	8.35	- .01
433	1380	θ Tauri	4.0	21 43	3.41	15 41 40.5	8.34	- .02
434	1381	θ² Tauri	4.0	21 48	3.42	15 36 12.5	8.33	- .02
435	1384	b Tauri	5.0	22 07	3.36	12 46 49.6	8.31	- .01
436	1386	44 Eridani	5.6	22 20	3.10	1 06 47.8	8.29	+ .01
437	1382	ι Camelopardalis . . .	5.8	22 32	4.73	53 38 52.0	8.28	- .01
438	1390	80 Tauri	6.3	23 18	3.41	15 22 26.0	8.21	- .03
439	1391	Tauri	4.9	23 42	3.43	15 55 54.0	8.18	- .01
440	1392	81 Tauri	6.0	23 48	3.42	15 25 45.6	8.17	- .01
441	1393	83 Tauri	5.6	4 23 52	+ 3.37	13 27 43.1	+ 8.17	- .02
442	1403	45 Eridani	5.1	25 44	3.06	0 18 11.0	8.02	- .07
443	1409	ρ Tauri	5.1	27 02	3.40	14 35 26.2	7.92	- .03
444	1408	Tauri	5.6	27 08	3.75	28 42 29.6	7.91	- .09
445*	...	Tauri	5.8	27.8	3.19	5 19	7.85	...
446	1414	e Persei	4.4	28 23	4.14	41 01 00.3	7.80	- .01
447	1420	α Tauri	1.1	29 02	3.44	16 16 00.3	7.75	- .17
448	1421	d Tauri	4.4	29 04	3.29	9 54 46.3	7.75	- .05
449	1424	2 Camelopardalis . . .	5.5	30 28	4.73	53 14 04.8	7.63	- .09
450	1425	3 Camelopardalis . . .	5.5	30 28	4.70	52 50 18.1	7.63	- .03

† Double.

†† Suspected variable, ♂ 5.3, D. M. 4.9, ♀ 6.3.

CATALOGUE OF STARS FOR OBSERVATIONS OF LATITUDE.

No.	B. A. C.	Constellation.	Mag.	A. R. 1880.	Annual Variation.	Declination 1880.	Annual Precession.	Proper Motion.
				h. m. s.	s.	" " "	" "	" "
451	1431	49 Eridani	5.4	4 31 03	+ 3.09	0 45 13.5	+ 7.59	- .02
452*	...	Tauri	5.8	31.2	3.53	20 27	7.58	...
453	1434	c Tauri	4.2	31 27	3.35	12 16 07.2	7.56	- .01
454	1436	σ Tauri (pr.)	5.4	32 18	3.42	15 33 43.5	7.49	- .08
455	1437	σ Tauri (sq.)	5.4	32 25	3.43	15 40 44.0	7.48	- .01
456	...	Persei	5.9	32 27	4.45	48 03 57.6	7.47	...
457*	...	Tauri	5.7	32 36	3.24	7 37 53.2	7.46	...
458	1428	Camelopardalis	6.0	32 45	7.98	75 43 10.2	7.45	- .10
459	1442	93 Tauri	5.5	33 23	3.34	11 57 38.3	7.40	+ .03
460	1444	Tauri	5.2	33 49	3.75	28 22 51.8	7.37	- .04
461*	...	Persei	6.1	4 34 15	+ 4.54	49 44 32.8	+ 7.33	...
462	1445	59 Persei	5.6	34 24	4.24	43 08 05.3	7.32	- .07
463	1449	τ Tauri	4.6	35 03	3.59	22 43 31.1	7.27	- .02
464	1460	Orionis	5.6	37 47	3.33	10 55 16.8	7.06	.00
465	1448	Cephei	5.2	37 57	10.97	80 59 22.2	7.02	.00
466	1456	4 Camelopardalis . . .	5.4	38 01	4.97	56 32 29.8	7.02	- .17
467*	...	Orionis	5.6	39.4	3.33	11 29	6.91	...
468	1470	Camelopardalis	5.7	40 51	5.57	63 17 54.3	6.79	- .07
469	1475	Aurigæ	5.8	41 33	3.87	32 22 34.2	6.72	.00
470*	...	Aurigæ	5.5	41.5	3.83	31 13	6.73	...
471	1476	ι Aurigæ	5.4	4 41 50	+ 4.03	37 16 30.4	+ 6.72	+ .06
472	1474	9 Camelopardalis . . .	4.7	42 08	5.91	66 08 10.8	6.69	+ .01
473	1477	Aurigæ	5.9	42 08	4.50	48 31 53.4	6.69	.00
474	1486	π¹ Orionis	3.5	43 20	3.26	6 45 00.5	6.58	- .01
475	1491	π² Orionis	4.8	44 05	3.27	8 41 34.0	6.52	- .04
476	1493	ι Tauri	4.9	44 21	3.50	18 38 02.4	6.50	- .07
477	1492	2 Aurigæ	5.0	44 36	4.01	36 29 56.0	6.48	+ .01
478	1495	π³ Orionis	4.0	44 49	3.19	5 23 53.4	6.46	- .03
479	1494	5 Camelopardalis . . .	5.7	45 15	4.88	55 03 29.2	6.42	- .09
480	1497	D. M. 27°, 701	5.8	45 18	3.75	27 41 42.3	6.42	- .06
481	1500	40¹ Orionis	5.2	4 45 45	+ 3.39	14 02 56.9	+ 6.38	- .08
482	1508	5 Orionis	5.5	47 07	3.13	2 18 31.4	6.27	- .03
483	1504	7 Camelopardalis . . .	4.9	47 40	4.79	53 33 27.7	6.22	.00
484	1514	π⁵ Orionis	3.9	48 00	3.12	2 14 33.5	6.20	.00
485	1516	π⁴ Orionis	5.1	48 18	3.30	9 57 30.1	6.17	- .18
486	...	Orionis	5.6	48 19	3.24	7 35 01.6	6.17	...
487	1520	ι Aurigæ	3.1	49 11	3.90	32 58 28.1	6.10	- .02
488	...	Cephei	6.0	49 26	20.42	85 47 53.8	6.08	...
489	1525	90² Orionis	4.8	49 37	3.37	13 19 24.2	6.06	- .05
490	1526	Tauri	5.3	50 27	3.47	16 57 51.7	6.00	- .01
491	1528	k Tauri	5.8	4 50 49	+ 3.66	24 51 48.7	+ 5.97	- .06
492	1530	4 Aurigæ	5.7	51 07	4.07	37 42 24.7	5.94	- .09
493	1538	π⁶ Orionis	4.7	52 20	3.11	1 31 43.1	5.83	+ .01
494	1536	10 Camelopardalis . . .	4.3	52 45	5.31	60 15 51.0	5.80	- .02
495	1540	ε Aurigæ	var. 3.5-4.4	53 21	4.29	43 38 38.3	5.75	.00
496	1541	ζ Aurigæ	3.8	54 05	4.18	40 53 56.9	5.69	.00
497	1546	11 Camelopardalis . . .	5.4	55 43	5.20	58 48 08.8	5.55	- .01
498	1551	ι Tauri	4.8	55 55	3.58	21 25 01.5	5.53	- .06
499	1549	Camelopardalis	5.4	57 14	7.48	73 47 17.9	5.43	- .03
500	1554	9 Aurigæ	5.4	57 17	4.68	51 26 11.2	5.42	- .15

REPORT OF THE SUPERINTENDENT OF
CATALOGUE OF STARS FOR OBSERVATIONS OF LATITUDE.

No.	B. A. C.	Constellation.	Mag.	A. R. 1880.	Annual Variation.	Declination 1880.	Annual Precession.	Proper Motion.
501	1557	11 Orionis	4.9	h. m. s.	s.	" " "	" "	" "
502	1558	7 Aurigæ	3.4	4 57 43	+ 3.42	15 14 07.5	+ 5.39	— .01
503*		D. M. + 0°, 339	5.8	58 06	4.19	41 04 13.0	5.35	— .09
504	1568	m Tauri	5.1	59.2	3.10	1 01	5.26	...
505	1570	l Tauri	5.4	5 00 22	3.54	18 28 56.8	5.16	+ .02
506	1572	103 Tauri	5.7	00 42	3.55	20 15 30.4	5.13	— .04
507	1584	i Orionis	5.8	00 48	3.65	24 06 19.7	5.12	+ .05
508	1582	Aurigæ	5.7	01 21	3.26	8 20 25.9	5.08	— .06
509*		Tauri	5.6	01 47	4.46	46 48 43.7	5.04	— .10
510	1590	h Orionis	5.9	02.2	3.75	27 53	5.00	...
511	1565	Camelopardalis	5.0	02 44	3.29	9 40 24.7	4.96	— .11
512	1591	15 Orionis	5.0	5 02 48	+ 9.74	79 05 18.4	+ 4.95	+ .05
513*	1585	Camelopardalis	5.7	02 50	3.43	15 26 33.7	4.95	+ .02
514	1601	Orionis	5.6	03 26	7.35	73 07 37.6	4.88	...
515	1602	μ Aurigæ	5.2	04 48	3.45	15 53 42.9	4.78	— .10
516	1611	ρ Orionis	4.9	05 13	4.10	38 20 26.5	4.75	— .06
517	1614	14 Aurigæ	5.4	07 01	3.14	2 43 00.7	4.60	— .01
518	1613	α Aurigæ	0.3	07 36	3.90	32 32 49.0	4.54	+ .02
519		Orionis	5.8	07 50	4.42	45 52 26.1	4.53	— .43
520		Camelopardalis	5.8	08.4	3.19	5 01	4.48	...
521	1624	18 Orionis	5.9	09.2	5.58	62 31	4.41	...
522		Aurigæ	6.0	5 09 24	+ 3.33	11 18 17.9	+ 4.39	+ .02
523	1627	16 Aurigæ	5.1	09 42	4.27	42 39 36.0	4.37	— .00
524	1631	λ Aurigæ	4.9	10 18	3.93	33 14 41.1	4.31	— .15
525*		Aurigæ	5.8	10 42	4.20	39 59 24.5	4.28	— .70
526	1637	n Tauri	5.5	11.8	4.21	40 58	4.19	...
527	1636	19 Aurigæ	5.6	12 04	3.60	21 58 16.5	4.16	+ .03
528	1632	16 Camelopardalis	5.3	12 06	3.95	33 49 50.1	4.16	— .01
529	1645	ρ Aurigæ	5.6	13 11	5.12	57 25 30.5	4.06	— .05
530	1649	D. M. 29°, 869	5.8	13 19	4.25	41 40 58.8	4.06	— .03
531		Aurigæ	5.9	13 35	3.81	29 26 41.5	4.03	— .12
532	1660	22 Orionis	4.9	5 14 25	+ 4.21	40 54 33.8	+ 3.96	— .00
533	1663	σ Aurigæ	5.5	15 38	3.06	— 0 30 09.3	3.86	— .02
534	1665	m Orionis	5.3	16 30	4.07	37 16 17.8	3.78	— .00
535	1671	111 Tauri	5.4	16 32	3.15	3 25 38.8	3.78	— .01
536	1682	p Orionis	5.7	17 25	3.50	17 16 13.9	3.71	— .00
537	1685	25 Orionis	5.0	18 23	3.05	— 1 00 29.4	3.62	+ .10
538	1687	γ Orionis	1.5	18 31	3.12	1 44 04.4	3.61	— .00
539	1681	β Tauri	1.6	18 42	3.22	6 14 21.9	3.59	— .04
540	1676	17 Camelopardalis	5.8	18 42	3.79	28 30 15.5	3.59	— .17
541	1690	φ Aurigæ	5.6	18 50	5.65	62 57 51.1	3.58	— .01
542	1692	115 Tauri	5.8	5 19 42	+ 3.98	34 22 17.8	+ 3.51	— .05
543	1695	o Tauri	5.6	20 10	3.49	17 51 26.5	3.47	— .02
544	1700	ψ Orionis	5.1	20 26	3.60	21 49 58.6	3.45	— .01
545	1701	116 Tauri	5.8	20 33	3.14	2 59 24.8	3.44	— .01
546	1707	118 Tauri	5.5	20 52	3.45	15 46 16.4	3.40	— .02
547	1717	31 Orionis	5.3	21 53	3.69	25 03 05.0	3.32	— .05
548	1662	Cephei	6.0	23 38	3.05	— 1 11 17.6	3.17	— .00
549	1722	A Orionis	5.2	23 41	18.58	85 07 53.3	3.16	...
550	1723	χ Aurigæ	4.9	24 22	3.21	5 51 19.3	3.11	— .02
				24 55	3.91	32 06 07.2	3.06	+ .04

THE UNITED STATES COAST SURVEY.

CATALOGUE OF STARS FOR OBSERVATIONS OF LATITUDE.

No.	B. A. C.	Constellation.	Mag.	A. R. 1880.	Annual Variation.	Declination 1880.	Annual Precession.	Proper Motion.
551	1726	119 Tauri	4.7	h. m. s.	s.	" " "	" "	" "
552	1730	δ Orionis	var. 2.2-2.8	5 25 11	+ 3.52	18 30 11.7	+ 3.03	— .01
553		Aurigæ	5.8	25 53	3.06	— 0 23 22.8	2.97	— .01
554*		Orionis	5.8	26 44	4.91	54 20 47.2	2.90	— .00
555	1737	35 Orionis	5.6	26.7	3.03	— 1 41	2.90	...
556	1736	Aurigæ	5.8	27 05	3.41	14 13 09.8	2.87	— .03
557	1742	121 Tauri	5.6	27 12	4.52	47 38 02.5	2.86	— .00
558	1748	φ ¹ Orionis	4.9	28 08	3.66	23 57 28.5	2.78	— .02
559	1749	λ Orionis	3.8	28 14	3.29	9 24 24.0	2.77	— .02
560	1765	ε Orionis	1.8	28 32	3.30	9 51 08.0	2.75	— .02
561	1766	φ ² Orionis	4.5	30 07	3.04	— 1 16 48.3	2.61	— .01
562	1751	Camelopardalis	5.8	5 30 19	+ 3.30	9 13 26.3	+ 2.59	— .31
563	1767	ζ Tauri	2.9	30 25	6.00	65 37 47.7	2.58	...
564*		D. M. 4°, 989	5.8	30 28	3.58	21 04 03.1	2.57	— .05
565	1768	26 Aurigæ	5.8	30.8	3.18	4 41	2.55	...
566	1778	125 Tauri	5.7	30 56	3.85	30 25 09.5	2.54	— .00
567	1782	ω Orionis	4.9	32 18	3.72	25 49 41.8	2.42	— .01
568	1792	126 Tauri	5.4	32 51	3.17	4 03 06.6	2.37	+ .01
569	1806	b Orionis	5.4	32 51	3.17	4 03 06.6	2.37	+ .01
570	1804	o Aurigæ	5.8	34 22	3.46	16 28 13.6	2.24	+ .02
571*	1826	Orionis	5.8	36 16	3.10	1 24 54.3	2.07	— .01
572	1827	131 Tauri	5.7	36 36	4.65	49 46 16.2	2.04	— .08
573	1830	τ Aurigæ	4.7	5 40.3	+ 3.30	9 29	+ 1.72	...
574	1834	133 Tauri	5.2	40 23	3.42	14 26 32.2	1.71	— .09
575	1839	52 Orionis	5.5	40 52	4.16	39 08 16.0	1.67	— .06
576	1837	132 Tauri	5.3	40 55	3.41	13 51 16.0	1.67	— .01
577	1846	134 Tauri	5.1	41 33	3.23	6 24 37.2	1.61	— .06
578	1844	ν Aurigæ	5.0	41 39	3.68	24 31 32.2	1.61	— .01
579	1845	ν Aurigæ	4.2	42 49	3.37	12 36 42.7	1.50	+ .02
580	1851	Orionis	5.8	42 51	4.09	37 16 08.9	1.49	— .03
581	1852	135 Tauri	5.6	43 10	4.16	39 06 42.3	1.47	+ .03
582*		Orionis	5.8	43 26	3.31	9 49 53.5	1.45	— .19
583	1849	31 Camelopardalis	5.4	43 39	+ 3.41	14 16 08.3	+ 1.43	— .02
584	1854	ξ Aurigæ	4.9	43.9	3.17	4 23	1.41	...
585*		D. M. 19°, 1110	5.8	44 13	5.37	59 51 30.9	1.38	— .02
586	1862	137 Tauri	5.8	44 47	5.02	55 40 34.0	1.33	— .03
587	1863	136 Tauri	5.3	45.3	3.55	19 50	1.29	...
588	1869	56 Orionis	5.4	45 34	3.41	14 08 23.0	1.26	— .02
589	1876	χ ¹ Orionis	4.8	45 47	3.77	27 34 54.7	1.24	— .07
590	1883	α Orionis	var. 0.4-1.4	46 13	3.12	1 49 27.0	1.21	+ .01
591		D. M. 24°, 1033	5.8	47 17	3.55	20 15 07.7	1.11	— .10
592	1885	δ Aurigæ	3.9	48 41	3.24	7 22 59.7	0.98	+ .02
593		Aurigæ	6.0	5 49 35	+ 3.67	24 13 48.2	+ 0.91	...
594	1896	139 Tauri	5.2	49 39	4.94	54 16 23.2	0.91	— .11
595	1895	β Aurigæ	2.0	50 02	4.66	49 54 33.8	0.87	...
596	1897	π Aurigæ	4.6	50 33	3.73	25 56 14.0	0.83	— .00
597	1900	θ Aurigæ	2.5	50 44	4.40	44 55 58.8	0.81	— .03
598	1902	36 Aurigæ	5.9	51 02	4.45	45 55 25.6	0.79	— .02
599	1913	60 Orionis	5.5	51 32	4.09	37 12 08.4	0.74	— .11
600	1914	Aurigæ	6.2	51 52	4.55	47 53 30.3	0.71	— .05
				52 39	3.09	0 32 25.1	0.65	— .04
				53 29	4.66	49 54 11.0	0.57	+ .10

REPORT OF THE SUPERINTENDENT OF
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No.	B. A. C.	Constellation.	Mag.	A. R. 1880.	Annual Variation.	Declination 1880.	Annual Precession.	Proper Motion.
				h. m. s.	s.	° ' "	"	"
601	1928	μ Orionis	4.8	5 55 47	+ 3.30	9 38 44.7	+ 0.37	— .01
602	1934	64 Orionis	5.7	56 21	3.56	19 41 27.5	0.32	— .03
603	1939	χ^2 Orionis	5.1	56 47	3.56	20 08 21.3	0.28	— .04
604	1938	1 Geminorum	4.9	56 50	3.64	23 16 05.6	0.28	— .11
605	1942	40 Aurigæ	5.7	58 19	4.13	38 29 30.3	0.15	.00
606*	..	D. M. 29°, 1112	5.8	58.7	3.83	29 31	0.11	...
607	1945	66 Orionis	5.8	58 38	3.17	4 09 50.8	0.12	— .03
608	1943	37 Camelopardalis	5.8	59 24	5.30	58 56 54.6	0.05	+ .01
609	1958	ν Orionis	4.6	6 00 43	3.43	14 46 52.5	— 0.06	— .02
610	1952	36 Camelopardalis	5.6	00 46	6.03	65 44 21.2	0.06	— .02
611	1963	41 Aurigæ	6.2	6 02 25	+ 4.60	48 43 58.0	— 0.21	— .12
612	..	Aurigæ	6.0	04 17	4.73	51 12 06.2	0.38	...
613	..	Aurigæ	6.0	04.5	3.03	32 43	0.39	...
614	1979	40 Camelopardalis	5.7	04 54	5.39	60 01 46.4	0.43	— .03
615	1986	68 Orionis	5.8	04 55	3.56	19 48 54.2	0.43	— .06
616	1990	ξ Orionis	4.7	05 07	3.42	14 14 03.4	0.45	— .04
617	1989	η^1 Orionis	5.7	05 08	3.46	16 09 22.2	0.45	+ .02
618	1980	Camelopardalis	4.6	05 37	6.62	69 21 32.7	0.49	— .11
619	1992	1 Lyncis	5.6	06 51	5.54	61 33 05.2	0.60	— .01
620	2002	η Geminorum	3.6	07 38	3.62	22 32 24.0	0.67	— .02
621	2001	κ Aurigæ	4.4	6 07 44	+ 3.83	29 32 25.3	— 0.68	— .29
622	2009	η^2 Orionis	5.5	08 30	3.45	16 10 42.7	0.74	+ .05
623	2012	73 Orionis	5.8	09 01	3.38	12 35 13.4	0.79	.00
624	2007	2 Lyncis	4.8	09 02	5.30	59 03 06.5	0.79	+ .03
625*	..	D. M. 14°, 1235	5.8	11.3	3.42	14 26	0.99	...
626	2024	45 Aurigæ	5.6	12 01	4.88	53 30 15.3	1.05	— .10
627*	..	Orionis	5.7	13.2	3.42	14 43	1.15	...
628	..	Camelopardalis	5.8	14 33	6.86	70 35 49.7	1.26	...
629	2044	ψ^1 Aurigæ	4.9	15 39	4.62	49 20 47.1	1.37	— .06
630	2047	μ Geminorum	3.3	15 42	3.63	22 34 25.0	1.38	— .11
631*	2045	5 Lyncis	5.8	6 16 20	+ 5.25	58 28 49.7	— 1.40	— .03
632	2059	8 Monocerotis	4.7	17 25	3.18	4 39 08.0	1.52	— .02
633	2082	48 Aurigæ	5.5	20 51	3.86	30 33 53.8	1.82	— .04
634	2086	77 Orionis	5.7	21 04	3.08	0 22 11.2	1.84	— .05
635	2081	47 Aurigæ	6.1	21 05	5.49	46 45 33.2	1.84	— .03
636*	2069	Camelopardalis	5.6	21 49	9.38	78 05 11.0	1.93	...
637	2090	ν Geminorum	4.4	21 50	3.56	20 17 10.9	1.90	— .01
638	2083	Camelopardalis	6.0	22 46	7.65	73 47 06.3	1.99	...
639	2110	Aurigæ	5.7	24 37	3.93	32 32 21.4	2.15	+ .02
640*	..	Monocerotis	5.2	25.1	3.35	11 38	2.19	...
641	2095	Camelopardalis	5.3	6 25 45	+10.35	79 41 22.7	— 2.24	— .61
642	2126	13 Monocerotis	4.8	26 25	3.25	7 25 10.3	2.30	— .02
643*	..	Camelopardalis	5.8	26.4	7.12	71 51	2.30	...
644*	2129	Geminorum	6.0	26.8	3.41	14 15	2.34	...
645*	..	Monocerotis	5.5	27.5	3.05	— 1 07	2.40	...
646	2133	41 Aurigæ	5.1	27 39	3.78	28 06 50.3	2.41	— .02
647	2159	ψ^2 Aurigæ	5.0	30 46	4.29	42 35 32.1	2.69	— .05
648	2163	γ Geminorum	1.9	30 47	3.47	16 30 00.5	2.69	— .03
649	2176	54 Aurigæ	5.9	31 59	3.79	28 22 01.8	2.79	— .04
650	2182	ψ Aurigæ	5.1	34 21	4.37	44 38 16.1	2.99	+ .06

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				h. m. s.	s.	° ' "	"	"
651	2185	S Monocerotis	var. 4.7-5.5	6 34 22	+ 3.31	10 00 16.1	— 3.00	— .09
652	2191	26 Geminorum	5.5	35 25	3.49	17 45 41.4	3.09	— .08
653	2187	12 Lyncis	4.9	35 37	5.30	59 33 37.1	3.10	— .03
654	2194	ϵ Geminorum	3.3	36 33	3.69	25 14 54.1	3.18	— .02
655	2197	28 Geminorum	5.8	37 09	3.81	29 05 25.9	3.23	— .03
656	2199	30 Geminorum	4.9	37 13	3.38	13 20 51.3	3.24	— .02
657	2200	ψ^3 Aurigæ	5.3	38 05	4.33	43 41 40.9	3.32	+ .14
658	..	Lyncis	5.8	38 12	5.01	55 50 02.5	3.33	...
659	2198	42 Camelopardalis	5.0	38 26	6.29	67 42 04.6	3.34	+ .01
660	2201	ψ^4 Aurigæ	5.4	38 31	4.59	48 54 50.1	3.35	— .04
661	2206	ξ Geminorum	3.8	6 38 33	+ 3.37	13 01 24.2	— 3.36	— .22
662	2211	16 Monocerotis	5.8	40 00	3.27	8 42 45.2	3.48	— .02
663	2209	43 Camelopardalis	5.1	40 45	6.51	69 01 28.6	3.55	.00
664	2216	17 Monocerotis	5.1	40 49	3.27	8 09 57.0	3.55	.00
665	2222	18 Monocerotis	4.8	41 36	3.13	2 32 30.8	3.62	— .03
666*	..	Geminorum	5.7	41.9	3.92	32 44	3.65	...
667	2223	ψ^5 Aurigæ	5.1	42 17	4.25	41 55 15.1	3.68	— .11
668	2220	14 Lyncis	5.8	42 30	5.31	59 35 18.3	3.70	— .04
669	2210	Camelopardalis	4.6	42 32	8.85	77 07 33.9	3.70	— .03
670	2157	Cephei	5.0	43 45	30.12	87 13 45.6	3.81	— .05
671	2233	d Geminorum	5.8	6 44 22	+ 3.61	21 54 04.2	— 3.86	— .02
672	2237	θ Geminorum	3.6	44 52	3.96	34 06 15.1	3.89	— .05
673	2248	15 Lyncis	4.9	46 53	5.22	58 34 38.3	4.07	— .18
674	2247	Camelopardalis	6.0	47 42	6.86	70 57 58.5	4.14	...
675	2255	e Geminorum	5.0	47 52	3.38	13 19 43.9	4.16	— .06
676	2261	ψ^6 Aurigæ	5.2	48 52	4.39	45 14 51.8	4.24	— .02
677	2285	41 Geminorum	5.8	53 22	3.45	16 14 38.3	4.62	+ .04
678	2299	ω Geminorum	5.6	55 06	3.66	24 23 05.2	4.77	— .01
679*	..	Geminorum	6.0	55.4	3.49	17 55	4.80	...
680*	..	Geminorum	6.0	55.4	3.43	15 30	4.80	...
681	2295	ζ Geminorum	var. 3.8-4.4	6 56 59	+ 3.56	20 44 40.8	— 4.94	— .01
682	2300	Geminorum	5.1	56 59	3.33	11 07 35.5	4.94	.00
683	2314	Aurigæ	6.0	58 16	3.98	34 39 14.7	5.05	— .17
684*	..	Aurigæ	5.8	59.5	3.95	34 11	5.14	...
685*	..	Monocerotis	5.7	7 01.3	3.25	7 40	5.30	...
686	2330	45 Geminorum	5.4	01 29	3.44	16 07 15.6	5.32	— .07
687	2338	63 Aurigæ	5.1	03 24	4.13	39 50 52.3	5.47	.00
688	2340	τ Geminorum	4.6	03 30	3.83	30 26 24.3	5.50	— .06
689	2343	47 Geminorum	5.7	03 56	3.72	27 03 08.3	5.52	— .03
690	2341	D. M. 51°, 1295	5.8	04 02	4.70	51 37 31.7	5.53	.00
691	2350	48 Geminorum	5.8	7 05 09	+ 3.65	24 19 40.9	— 5.62	— .01
692	2349	18 Lyncis	5.1	05 25	5.27	59 50 54.1	5.64	— .33
693	2356	Canis Minoris	5.8	05 27	3.21	5 51 07.4	5.64	.00
694	2358	22 Monocerotis	4.4	05 44	3.07	— 0 17 43.0	5.67	— .01
695	2326	Camelopardalis	5.3	05 45	12.99	82 38 14.6	5.67	— .02
696	2362	51 Geminorum	5.3	06 29	3.44	16 21 40.2	5.74	— .03
697	2361	Lyncis	5.7	06 55	4.47	47 27 06.2	5.77	— .02
698	2373	Monocerotis	5.6	08 02	3.15	3 18 57.0	5.87	+ .01
699	2379	Lyncis	5.2	09 25	4.57	49 40 35.1	5.98	.00
700	2381	64 Aurigæ	6.0	09 42	4.18	41 05 40.9	6.01	+ .01

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701	2398	λ Geminorum	4.0	7 11 12	+ 3.45	16 45 19.9	- 6.13	- .04
702	...	Lyncis	6.0	12 36	4.36	45 26 53.5	6.25	...
703	2410	δ Geminorum	3.5	12 57	3.59	22 12 06.5	6.28	+ .01
704	2407	19 Lyncis	5.4	13 04	4.92	55 30 19.2	6.27	- .05
705	2416	65 Aurigæ	5.3	14 02	4.03	36 59 05.5	6.36	.00
706	2423	56 Geminorum	5.6	14 52	3.55	20 40 06.9	6.44	.00
707	2429	66 Aurigæ	5.4	15 50	4.17	40 54 07.1	6.51	- .01
708	2431	A Geminorum	5.1	16 10	3.67	25 16 46.6	6.54	- .02
709	2441	21 Lyncis	4.8	17 40	4.55	49 26 50.7	6.67	- .09
710	2442	ϵ Geminorum	4.0	18 16	3.74	28 02 06.2	6.72	- .09
711	2444	1 Canis Minoris	5.7	7 18 18	+ 3.34	11 54 13.6	- 6.72	+ .02
712	2439	Camelopardalis	5.0	18 23	6.29	68 42 28.3	6.73	- .07
713	2451	ϵ Canis Minoris	5.3	19 05	3.28	9 30 39.8	6.79	- .07
714	...	Lyncis	5.9	19 55	4.36	48 25 35.3	6.85	...
715	2460	63 Geminorum	5.5	20 37	3.57	21 41 20.6	6.90	- .10
716	2462	β Canis Minoris	2.8	20 39	3.26	8 31 47.4	6.91	- .05
717	2459	22 Lyncis	5.5	20 49	4.56	49 55 04.8	6.93	- .11
718	2464	ρ Geminorum	4.5	21 23	3.87	32 01 17.3	6.97	+ .19
719	2465	η Canis Minoris	5.8	21 35	3.23	7 11 06.8	6.99	- .04
720	2468	γ Canis Minoris	4.9	21 38	3.27	9 10 01.5	6.97	- .02
721	2467	64 Geminorum	5.5	7 21 52	+ 3.75	28 21 50.5	- 7.01	- .04
722	2469	b Geminorum	5.0	22 21	3.74	28 09 43.7	7.05	- .01
723	2473	6 Canis Minoris	4.9	23 07	3.34	12 15 12.4	7.11	.00
724*	...	D. M. 23°, 1744	5.8	25.7	3.60	23 09	7.33	...
725	2480	d Canis Minoris	5.4	25 52	3.12	2 10 04.2	7.34	+ .05
726	2486	68 Geminorum	5.4	26 46	3.43	16 05 00.5	7.41	.00
727	2485	a Geminorum	1.5	26 56	3.85	32 09 00.1	7.42	- .08
728	...	Lyncis	6.0	27 01	4.91	56 01 03.2	7.43	...
729	2488	Lyncis	5.7	27 49	4.37	46 26 35.3	7.50	...
730	2493	v Geminorum	4.3	28 32	3.71	27 09 39.9	7.55	- .11
731	2504	70 Geminorum	5.7	7 30 40	+ 3.95	35 18 55.3	- 7.73	- .03
732	2509	u Geminorum	5.0	31 20	3.93	34 51 20.1	7.78	- .30
733	...	Lyncis	6.0	32 10	4.05	38 37 02.9	7.85	.00
734	...	Lyncis	5.8	32 20	4.46	48 24 40.0	7.86	.00
735	2519	f Geminorum	5.6	32 33	3.47	17 56 46.9	7.88	+ .01
736	2516	24 Lyncis	5.0	32 51	5.11	58 59 19.6	7.90	- .07
737	2522	a Canis Minoris	0.5	33 01	3.14	5 31 51.7	7.92	- 1.08
738*	...	Geminorum	6.0	33.8	3.60	23 19	7.98	...
739	2532	Lyncis	5.3	34 59	4.57	50 42 57.2	8.08	- .04
740*	...	Geminorum	6.0	35.3	3.39	14 29	8.10	...
741	2540	σ Geminorum	4.9	7 35 49	+ 3.76	29 10 20.4	- 8.14	- .24
742	2551	κ Geminorum	3.7	37 12	3.63	24 41 03.1	8.25	- .05
743	2555	β Geminorum	1.3	37 58	3.68	28 18 53.0	8.32	- .04
744*	...	Lyncis	5.5	38.6	4.02	37 48	8.36	...
745	2558	81g Geminorum	5.1	39 11	3.48	18 48 05.1	8.41	- .05
746	2564	11 Canis Minoris	5.2	39 40	3.31	11 03 35.0	8.45	+ .01
747	2563	π Geminorum	5.4	39 46	3.88	33 42 32.5	8.46	- .02
748	2612	ζ Canis Minoris	5.3	45 29	3.12	2 04 19.4	8.91	- .01
749	2596	Camelopardalis	5.1	45 48	7.31	74 14 08.0	8.93	...
750	2590	Camelopardalis	5.4	45 51	9.70	79 48 12.2	8.93	- 0.10

THE UNITED STATES COAST SURVEY.

CATALOGUE OF STARS FOR OBSERVATIONS OF LATITUDE.

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				h. m. s.	s.	" "	" "	" "
751	2609	26 Lyncis	5.6	7 45 58	+ 4.39	47 52 25.2	- 8.95	- .04
752	2617	ϕ Geminorum	5.1	46 09	3.68	27 04 29.9	8.96	- .01
753	2585	Camelopardalis	5.8	48 01	15.23	84 23 56.3	9.10	...
754	2632	85 Geminorum	8.9	48 40	3.51	20 11 58.2	9.16	- .04
755	2639	1 Cancri	6.1	50 11	3.41	16 06 34.3	9.28	- .04
756	2647	Canis Minoris	6.0	50 45	3.26	8 57 37.4	9.31	- .06
757	...	Camelopardalis	5.8	51 16	5.07	59 22 15.1	9.36	...
758*	2649	Cancri	6.0	51 41	3.43	16 50	9.38	...
759	...	Camelopardalis	5.8	51 45	5.43	63 25 03.8	9.40	.00
760	2653	14 Canis Minoris	5.3	52 07	3.12	2 32 33.9	9.42	+ .01
761	2659	3 Cancri	5.8	7 53 55	+ 3.44	17 38 09.4	- 9.56	- .04
762	2668	28 Monocerotis	5.1	55 07	3.06	- 1 03 38.4	9.65	- .10
763	2673	Canis Minoris	4.9	56 02	3.12	2 39 47.0	9.72	+ .12
764	2672	χ Geminorum	5.1	56 09	3.69	28 07 45.1	9.74	- .07
765	2690	8 Cancri	5.7	58 23	3.35	13 27 31.6	9.91	- .05
766	2700	9 Cancri	6.0	59 12	3.56	22 58 35.6	9.97	- .02
767	2697	27 Lyncis	4.9	59 25	4.54	51 51 03.0	9.98	- .01
768	2714	μ Cancri	5.3	8 00 42	3.54	21 55 43.8	10.08	- .07
769	2707	Ursæ Majoris	4.9	00 51	6.06	68 49 29.6	10.09	- .01
770	2732	Lyncis	5.6	04 16	4.82	56 48 37.5	10.35	+ .02
771	2722	Camelopardalis	5.5	8 04 25	+ 7.72	76 07 13.1	- 10.36	...
772	2744	ζ Cancri	4.7	05 20	3.45	18 00 30.7	10.43	- .11
773	2747	ψ Geminorum	5.5	05 43	3.73	30 00 51.0	10.45	- .06
774	2757	29 Lyncis	5.8	07 52	5.03	59 56 10.1	10.62	- .06
775	2765	Ursæ Majoris	6.0	08 50	5.28	62 52 32.8	10.69	.00
776	2778	β Cancri	3.9	10 00	3.26	9 33 14.7	10.77	- .05
777	2786	χ Cancri	5.5	12 46	3.66	27 36 18.0	10.98	- .38
778	2788	Cancri	5.8	13 23	3.52	21 07 31.7	11.02	+ .02
779	2789	λ Cancri	5.5	13 24	3.57	24 23 55.2	11.02	- .04
780	2793	31 Lyncis	4.4	14 37	4.13	43 34 18.4	11.11	- .10
781	2792	Lyncis	5.8	8 14 43	+ 4.58	53 36 17.8	- 11.12	- .04
782*	...	Lyncis	5.8	17.4	3.86	35 24	11.31	...
783	2803	Ursæ Majoris	5.8	18 26	5.76	67 41 25.1	11.38	+ .04
784	2815	ϕ Cancri	5.9	19 10	3.66	28 17 14.9	11.44	- .10
785	...	Lyncis	6.0	19 14	4.21	46 03 34.5	11.44	.00
786	2822	Cancri	5.2	19 29	3.22	7 57 15.7	11.47	- .04
787	2817	ϕ^2 Cancri	5.6	19 32	3.64	27 19 32.1	11.47	- .01
788	2826	27 Cancri	6.0	20 06	3.33	13 02 57.8	11.51	- .12
789	2819	o Ursæ Majoris	3.5	20 17	5.04	61 07 02.2	11.52	- .13
790	2833	28 Cancri	5.7	21 30	3.57	24 32 30.0	11.61	- .08
791	2842	A Ursæ Majoris	5.4	8 23 51	+ 5.45	65 33 07.6	- 11.77	- .08
792	2850	ϵ Cancri	5.7	24 25	3.56	24 29 04.1	11.82	- .07
793	2853	θ Cancri	5.6	24 45	3.43	18 29 55.9	11.84	- .06
794	2862	η Cancri	5.5	25 46	3.48	20 50 51.5	11.91	- .06
795	2871	33 Lyncis	6.0	27 01	3.87	36 49 48.7	12.00	- .01
796	2876	3 Ursæ Majoris	5.5	28 31	5.40	65 25 59.6	12.10	+ .05
797	2889	Hydræ	6.0	29 28	3.20	7 02 15.1	12.17	- .09
798	2884	π Ursæ Majoris	4.6	29 43	5.32	64 44 42.0	12.19	+ .02
799	2897	c Cancri	5.9	30 35	3.26	10 04 16.7	12.25	- .03
800	2901	δ Hydræ	4.4	31 18	3.18	6 07 17.0	12.30	+ .02

REPORT OF THE SUPERINTENDENT OF
CATALOGUE OF STARS FOR OBSERVATIONS OF LATITUDE.

No.	B. A. C.	Constellation.	Mag.	A. R. 1880.	Annual Variation.	Declination 1880.	Annual Precession.	Proper Motion.
				h. m. s.	s.	" "	" "	" "
801	2911	σ Hydræ	4.8	8 32 29	+ 3.15	3 45 42.3	- 12.38	- .02
802	2909	34 Lyncis	5.4	32 43	4.17	46 15 12.3	12.40	+ .06
803	2937	γ Cancræ	4.5	36 20	3.48	21 53 56.9	12.64	+ .01
804	2942	Δ^1 Cancræ	5.8	36 35	3.31	13 06 36.1	12.66	+ .01
805	2945	η Hydræ	4.8	36 57	3.14	3 49 41.9	12.69	- .01
806	2953	δ Cancræ	4.3	37 52	3.42	18 35 39.5	12.75	- .24
807*	2943	Ursæ Majoris	6.0	37 56	5.52	67 08 50.0	12.75	+ .02
808	2958	b Cancræ	5.6	38 14	3.26	10 30 54.0	12.77	- .03
809	2965	c Cancræ	4.7	39 26	3.64	29 11 50.7	12.85	- .05
810	2971	e Hydræ	3.5	40 25	3.18	6 51 29.8	12.92	- .02
811	2976	Hydræ	5.5	8 41 10	+ 3.04	- 1 27 28.2	- 12.97	+ .03
812	2978	ρ Hydræ	4.8	42 05	3.19	6 16 48.0	13.02	- .03
813	2982	b Ursæ Majoris	5.5	43 29	5.01	62 24 37.1	13.12	+ .17
814	2989	35 Lyncis	5.8	43 53	4.05	44 10 18.2	13.15	+ .03
815	2999	σ^1 Cancræ	5.8	45 10	3.73	32 55 21.7	13.23	+ .02
816	3002	ρ Cancræ	5.8	45 27	3.58	28 47 17.3	13.25	- .25
817	3003	6 Ursæ Majoris	5.8	46 09	5.22	65 03 39.3	13.30	- .13
818	3016	57 Cancræ	5.3	46 55	3.67	31 01 57.9	13.35	.00
819	3026	ρ^2 Cancræ	5.4	48 28	3.60	28 23 03.6	13.45	- .04
820	3027	Ursæ Majoris	6.0	48 43	3.92	40 39 38.6	13.46	.00
821	3032	ζ Hydræ	3.3	8 49 03	+ 3.18	6 24 04.4	- 13.48	.00
822	3035	60 Cancræ	5.7	49 22	3.28	12 05 00.8	13.51	- .02
823	3033	σ^2 Cancræ	5.6	49 32	3.72	33 22 14.7	13.51	- .07
824	.	Camelopardalis	5.8	50 03	13.61	84 39 31.0	13.55	.00
825	3047	σ Cancræ	5.5	50 33	3.36	15 46 55.4	13.58	+ .04
826	3048	f Ursæ Majoris	3.2	50 59	4.14	48 30 40.6	13.61	- .28
827*	3053	Cancræ	6.0	51.2	3.24	9 51	13.62	. . .
828	3049	ρ Ursæ Majoris	4.9	51 42	5.52	68 05 43.7	13.66	- .01
829	3055	a Cancræ	4.2	51 55	3.28	12 19 16.2	13.67	- .04
830	3056	σ^3 Cancræ	5.4	52 10	3.70	32 53 01.5	13.69	- .06
831	3059	10 Ursæ Majoris	4.1	8 52 51	+ 3.92	42 15 24.0	- 13.73	- .27
832	3072	Ursæ Majoris	5.7	55 12	4.44	54 45 19.4	13.88	.00
833	3075	κ Ursæ Majoris	3.5	55 25	4.12	47 37 46.2	13.89	- .11
834	3079	ν Cancræ	5.2	55 43	3.52	24 55 24.6	13.91	- .07
835	3087	11 Ursæ Majoris	5.1	57 50	5.36	67 21 11.5	14.04	- .06
836	3097	Ursæ Majoris	4.7	58 54	3.85	38 55 49.7	14.11	- .06
837	3105	ω Hydræ	5.6	59 39	3.17	5 34 13.3	14.15	- .06
838	3099	σ Ursæ Majoris	5.0	59 49	5.37	67 37 11.6	14.17	- .10
839	3106	f Ursæ Majoris	4.9	9 00 24	4.27	52 05 15.6	14.20	- .05
840	3109	τ Cancræ	5.8	00 48	3.62	30 08 07.3	14.23	- .05
841	3108	τ Ursæ Majoris	4.9	9 01 00	+ 5.02	63 59 59.9	- 14.24	- .08
842	3111	κ Cancræ	5.2	01 15	3.26	11 09 01.3	14.26	+ .02
843	3113	75 Cancræ	5.7	01 44	3.55	27 07 28.4	14.28	- .08
844	3117	ϵ Cancræ	4.9	02 28	3.46	22 31 48.0	14.33	+ .02
845*	3116	Ursæ Majoris	6.0	03 48	6.20	73 26 27.8	14.41	.00
846	3125	16 Ursæ Majoris (c)	5.1	04 51	4.82	61 54 57.3	14.47	- .09
847	3131	36 Lyncis	5.5	05 57	3.95	43 42 40.2	14.54	- .05
848	3135	17 Ursæ Majoris	5.1	06 56	4.50	57 14 14.2	14.60	+ .07
849	3140	e Ursæ Majoris	5.2	07 33	4.36	54 30 56.6	14.64	+ .02
850	3146	ϑ Hydræ	4.2	08 07	3.13	2 49 11.1	14.67	- .32

CATALOGUE OF STARS FOR OBSERVATIONS OF LATITUDE.

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				h. m. s.	s.	" "	" "	" "
851	3147	π Cancræ	5.8	9 08 36	+ 3.32	15 26 18.8	- 14.70	+ .02
852	3162	38 Lyncis	3.9	11 22	3.75	37 18 36.3	14.87	- .04
853	3172	Ursæ Majoris	5.7	12 54	4.45	57 12 23.6	14.96	.00
854	3178	40 Lyncis	3.3	13 44	3.67	34 53 55.2	15.01	- .02
855	3204	κ Leonis	4.4	17 40	3.51	26 41 52.0	15.23	- .03
856	3199	Draconis	4.3	19 51	9.14	81 51 16.6	15.35	+ .00
857	3218	Ursæ Majoris	5.4	20 48	3.96	46 07 34.5	15.41	- .13
858	3227	ω Leonis	5.4	22 02	3.22	9 34 41.9	15.48	- .02
859	3221	h Ursæ Majoris	3.6	22 03	4.80	63 35 07.8	15.48	+ .11
860	3228	3 Leonis	5.9	22 06	3.20	8 42 39.7	15.48	- .04
861	3231	22 Ursæ Majoris	5.8	9 23 32	+ 5.79	72 44 12.9	- 15.56	.00
862	3232	d Ursæ Majoris	4.9	23 51	5.42	70 21 22.4	15.57	+ .05
863	3241	8 Leonis Minoris	5.6	24 14	3.67	35 37 59.0	15.60	- .10
864	3242	ϑ Ursæ Majoris	3.3	24 49	4.04	52 13 22.6	15.63	- .57
865	3246	2 Leonis	4.4	24 52	3.43	23 29 45.9	15.63	- .04
866	3250	5 Leonis	5.1	25 29	3.24	11 49 49.3	15.65	- .08
867	3251	n Leonis	5.5	25 32	3.22	10 14 38.2	15.65	- .02
868	3253	τ^2 Hydræ	4.9	25 52	3.07	- 0 39 22.8	15.69	- .06
869	3256	26 Ursæ Majoris	4.8	26 36	4.15	52 35 03.0	15.73	- .04
870	3261	10 Leonis Minoris	4.5	26 52	3.70	36 55 46.0	15.74	+ .00
871	3265	Lyncis	4.9	9 27 34	+ 3.76	40 09 09.6	- 15.78	- .05
872	3268	11 Leonis Minoris	5.6	28 28	3.61	36 21 07.4	15.83	- .27
873	3273	Leonis	5.3	29 35	3.57	31 41 55.3	15.89	- .02
874	3286	1 Sextantis	5.5	30 52	3.17	7 22 23.2	15.96	.00
875	3281	42 Lyncis	5.4	30 52	3.77	40 46 39.5	15.96	.00
876	3283	27 Ursæ Majoris	5.2	31 52	5.67	72 47 46.3	16.01	- .05
877	3295	2 Sextantis	5.0	32 12	3.14	5 11 24.6	16.03	- .07
878	3284	D. M. 79. 319	5.8	33 00	7.47	79 41 07.0	16.07	.00
879	3303	e Hydræ	4.2	33 44	3.07	- 0 35 57.4	16.10	- .11
880	3307	43 Lyncis	5.6	34 34	3.74	40 18 13.9	16.15	- .06
881	3312	14 Leonis (o)	3.6	9 34 45	+ 3.21	10 26 14.6	- 16.16	- .04
882	3317	Leonis	5.3	36 31	3.53	30 31 32.1	16.25	- .11
883	3321	ψ Leonis	5.8	37 12	3.28	14 34 09.8	16.28	- .04
884	3324	63 Ursæ Majoris	5.4	38 01	4.30	57 40 39.8	16.33	.00
885	3331	e Leonis	3.2	39 02	3.42	24 19 33.2	16.38	- .02
886	3336	Sextantis	5.7	39 50	3.17	7 15 44.2	16.42	.00
887	3339	Sextantis	5.6	40 12	3.10	2 20 23.3	16.44	- .04
888	3341	Ursæ Majoris	5.0	40 51	3.91	46 34 45.2	16.47	- .10
889	3345	R Leonis	var. 5.2-1.0	41 06	3.23	11 59 01.5	16.48	- .17
890	3346	ν Ursæ Majoris	3.9	42 27	4.33	59 36 06.6	16.55	- .18
891	3358	ϕ Ursæ Majoris	4.8	9 43 56	+ 4.13	54 37 24.4	- 16.62	- .05
892	3366	g Leonis	5.5	45 04	3.42	24 57 44.2	16.68	- .20
893	3371	μ Leonis	3.9	45 56	3.42	26 34 16.9	16.72	- .06
894	3374	7 Sextantis	5.8	46 01	3.10	3 00 47.8	16.72	+ .11
895	3381	31 Ursæ Majoris	5.4	47 52	3.95	50 28 07.5	16.81	.00
896	3399	19 Leonis Minoris	5.2	50 20	3.70	41 37 35.4	16.93	.00
897	3402	Ursæ Majoris	5.1	51 35	4.18	57 23 07.3	16.99	.00
898	3406	ν Leonis	5.5	51 46	3.23	13 00 59.9	17.00	- .01
899	3409	Leonis	5.6	52 41	3.50	30 13 06.7	17.04	- .13
900	3415	π Leonis	4.9	53 52	3.18	8 37 09.5	17.09	- .03

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				h. m. s.	s.	" "	" "	" "
901	3416	20 Leonis Minoris . . .	5.4	9 54 05	+ 3.47	32 30 47.2	- 17.09	- .45
902	3423	Leonis	5.3	56 07	3.36	22 31 38.6	17.19	- .01
903	3446	21 Leonis Minoris . . .	4.3	10 00 21	3.56	35 49 43.9	17.38	+ .01
904	3453	7 Leonis	3.5	00 47	3.28	17 20 50.0	17.40	+ .01
905	3457	A Leonis	4.8	01 32	3.19	10 35 06.5	17.43	- .05
906	3458	15 Sextantis	4.4	01 48	3.08	0 12 52.0	17.44	- .01
907	3459	a Leonis	1.2	01 59	3.20	12 33 11.3	17.45	+ .01
908	3468	Leonis Minoris	6.0	04 06	3.58	37 59 34.1	17.53	.00
909	3496	32 Ursæ Majoris	5.7	09 18	4.43	65 42 20.9	17.76	- .04
910	3500	23 Leonis Minoris . . .	5.8	09 25	3.43	29 54 26.1	17.76	- .11
911	3505	2 Ursæ Majoris	3.4	10 09 51	+ 3.64	43 30 46.3	- 17.78	- .06
912	3508	ζ Leonis	3.4	10 01	3.35	24 00 54.0	17.79	+ .02
913	3510	37 Leonis	5.5	10 14	3.23	14 19 33.4	17.79	- .02
914	3514	Ursæ Majoris	5.8	11 53	4.67	69 20 59.0	17.86	- .06
915	3495	Camelopardalis	5.0	11 58	9.73	84 51 35.7	17.87	- .05
916*		Ursæ Majoris	6.1	12 ..	3.77	49 00	17.87	...
917	3522	40 Leonis	5.8	13 12	3.28	20 04 45.1	17.92	- .23
918	3523	γ Leonis (1st star) . . .	2.2	13 21	3.31	20 26 52.6	17.92	- .12
919	3533	μ Ursæ Majoris	3.2	15 11	3.60	42 06 09.2	17.99	+ .03
920	3531	Ursæ Majoris	4.9	15 28	4.40	66 10 19.6	18.00	- .06
921	3542	27 Leonis Minoris . . .	5.8	10 16 12	+ 3.48	34 30 46.5	- 18.03	- .09
922	3528	Camelopardalis	5.0	16 18	7.92	83 10 03.3	18.04	- .07
923	3548	28 Leonis Minoris . . .	5.6	17 15	3.47	34 19 28.9	18.07	- .07
924	3561	44 Leonis	5.9	18 56	3.16	9 23 38.0	18.14	- .12
925	3560	30 Leonis Minoris . . .	4.5	19 02	3.46	34 24 23.2	18.14	- .08
926	3572	31 Leonis Minoris . . .	4.3	20 56	3.49	37 19 17.4	18.21	- .10
927	3580	36 Ursæ Majoris	4.7	22 57	3.89	56 35 44.1	18.23	+ .01
928	3590	29 Sextantis	5.0	23 23	3.05	- 2 07 33.1	18.30	- .04
929	3597	30 Sextantis	5.0	24 09	3.07	- 0 01 21.0	18.32	- .03
930	3593	Draconis	4.8	24 51	5.29	76 19 48.4	18.34	- .03
931	3606	i Leonis	5.7	10 25 48	+ 3.21	14 45 08.1	- 18.38	- .04
932	3607	Ursæ Majoris	4.9	26 14	3.53	41 02 33.2	18.40	.00
933	3609	ρ Leonis	4.1	26 30	3.16	9 55 24.9	18.40	+ .00
934	3610	34 Leonis Minoris . . .	5.8	26 39	3.45	35 36 22.5	18.41	- .02
935	3612	37 Ursæ Majoris	5.0	27 25	3.91	57 41 53.4	18.44	- .03
936	3639	Ursæ Majoris	5.8	31 39	3.78	54 17 40.3	18.58	.00
937	3640	37 Leonis Minoris . . .	4.7	31 58	3.40	32 35 56.9	18.59	.00
938	3641	38 Leonis Minoris . . .	6.0	32 16	3.45	38 32 06.1	18.60	- .03
939	3645	Ursæ Majoris	5.6	33 15	4.37	69 04 10.2	18.63	...
940	3647	38 Ursæ Majoris	5.0	33 45	4.18	66 20 39.0	18.65	- .10
941	3652	Ursæ Majoris	4.9	10 34 28	+ 4.40	69 42 10.6	- 18.67	- .05
942	3664	39 Ursæ Majoris	5.5	36 08	3.84	57 49 43.1	18.72	- .07
943	3666	40 Leonis Minoris . . .	5.3	36 27	3.31	26 57 19.6	18.74	- .06
944	3665	Ursæ Majoris	5.3	36 29	3.55	46 50 03.3	18.74	+ .03
945	3671	41 Leonis Minoris . . .	5.2	36 53	3.28	23 48 58.1	18.75	- .01
946	3685	42 Leonis Minoris . . .	5.0	39 11	3.35	31 18 50.3	18.82	- .03
947*	3691	m Leonis	5.5	39 57	3.24	19 31 24.6	18.84	- .08
948	3693	k Leonis	5.5	40 04	3.18	14 49 38.8	18.84	- .10
949	3708	l Leonis	5.2	42 57	3.16	11 10 48.1	18.93	- .00
950	3714	42 Ursæ Majoris	5.7	43 51	3.83	59 57 23.5	18.96	- .09

THE UNITED STATES COAST SURVEY.

CATALOGUE OF STARS FOR OBSERVATIONS OF LATITUDE.

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				h. m. s.	s.	" "	" "	" "
951		Ursæ Majoris	5.8	10 45 19	+ 4.27	70 29 35.7	- 19.00	...
952		Ursæ Majoris (sq.) . . .	5.9	45 20	3.65	53 08 31.7	19.00	...
953	3725	44 Ursæ Majoris	5.4	46 18	3.68	55 13 20.0	19.02	- .04
954	3728	46 Leonis Minoris . . .	4.0	46 36	3.37	34 51 41.8	19.03	- .25
955	3729	ω Ursæ Majoris	4.9	47 04	3.48	43 49 41.7	19.04	- .06
956	3732	p ¹ Leonis	5.4	47 37	3.06	- 1 29 32.1	- 19.06	.00
957	3741	46 Ursæ Majoris	5.3	49 05	3.34	34 08 50.0	19.10	- .06
958	3742	54 Leonis	4.3	49 07	3.27	25 23 22.6	19.10	- .01
959*		Ursæ Majoris	5.8	52.2	3.58	52 32	19.18	...
960	3757	47 Ursæ Majoris	5.1	52 45	3.38	41 04 14.5	19.19	+ .06
961*		Ursæ Majoris	5.8	10 52 51	+ 3.36	36 44 16.8	- 19.19	...
962	3758	Ursæ Majoris	5.5	53 21	3.47	46 10 09.0	19.21	.00
963	3765	49 Ursæ Majoris	5.1	54 07	3.39	39 51 23.0	19.23	- .02
964	3768	d Leonis	4.6	54 22	3.10	4 15 41.2	19.24	- .03
965	3769	c Leonis	5.2	54 32	3.11	6 44 44.5	19.24	- .06
966	3767	β Ursæ Majoris	2.3	54 35	3.66	57 01 30.9	19.24	+ .03
967	3775	p ² Leonis	5.0	55 42	3.06	- 1 50 20.4	19.27	- .04
968	3776	b Leonis	4.4	55 55	3.21	20 49 23.3	19.27	+ .03
969	3777	a Ursæ Majoris	1.9	56 19	3.76	62 23 53.8	19.28	- .09
970	3788	χ Leonis	4.8	58 50	3.10	7 59 02.6	19.34	- .08
971	3798	p ⁴ Leonis	5.7	11 00 47	+ 3.06	2 36 24.5	- 19.39	- .08
972	3809	67 Leonis	5.6	02 23	3.23	25 18 27.2	19.42	- .01
973	3811	Ursæ Majoris	5.7	02 43	3.33	36 57 37.2	19.43	- .02
974	3812	ψ Ursæ Majoris	3.1	02 55	3.40	45 08 55.5	19.43	- .08
975	3832	p ⁵ Leonis	5.2	07 37	3.08	0 34 59.0	19.53	.00
976	3834	δ Leonis	2.5	07 43	3.20	21 10 51.4	19.53	- .14
977	3838	θ Leonis	3.3	07 57	3.16	16 05 07.4	19.54	- .03
978	3842	72 Leonis	4.9	08 49	3.20	23 44 57.6	19.55	- .01
979	3843	n Leonis	5.3	09 35	3.15	13 57 41.5	19.57	- .04
980	3846	Ursæ Majoris	5.5	09 56	3.42	50 07 51.0	19.58	- .01
981	3850	75 Leonis	5.4	11 11 07	+ 3.09	2 40 11.4	- 19.59	- .18
982	3851	ξ Ursæ Majoris (1st *) . .	3.9	11 47	3.21	32 12 16.4	19.61	- .57
983	3852	ν Ursæ Majoris	3.5	12 00	3.26	33 44 56.7	19.61	+ .04
984	3856	55 Ursæ Majoris	4.8	12 35	3.29	38 50 37.1	19.62	- .08
985	3862	σ Leonis	4.3	14 57	3.11	6 41 11.9	19.67	- .03
986	3864	Ursæ Majoris	6.0	15 43	3.62	64 59 10.3	19.68	- .06
987	3868	56 Ursæ Majoris	5.0	16 14	3.32	44 08 24.4	19.69	- .07
988	3877	ι Leonis	4.0	17 40	3.13	11 11 24.5	19.71	- .06
989	3879	79 Leonis	5.6	17 53	3.08	2 03 57.7	19.72	- .02
990	3886	81 Leonis	5.8	19 21	3.14	17 06 57.8	19.74	.00
991	3900	τ Leonis	4.9	11 21 46	+ 3.09	3 31 00.9	- 19.77	- .02
992	3905	57 Ursæ Majoris	5.3	22 36	3.25	39 59 49.4	19.79	- .01
993	3915	86 Leonis	5.5	24 13	3.14	19 04 13.5	19.81	+ .01
994	3914	λ Draconis	3.8	24 16	3.63	69 59 34.6	19.81	- .06
995	3918	Ursæ Majoris	5.8	25 32	3.45	61 44 54.1	19.82	.00
996	3932	90 Leonis	5.7	28 28	3.13	17 27 35.0	19.87	+ .01
997	3931	Ursæ Majoris	5.8	28 28	3.35	55 26 53.3	19.87	.00
998	3933	2 Draconis	5.2	29 00	3.58	69 59 26.3	19.87	- .10
999	3937	Leonis	5.6	29 59	3.16	28 26 38.2	19.88	- .05
1000	3946	υ Leonis	4.7	30 48	3.07	- 0 09 41.2	19.89	+ .05

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No.	B. A. C.	Constellation.	Mag.	A. R. 1880.	Annual Variation.	Declination 1880.	Annual Precession.	Proper Motion.
1001	3949	Ursæ Majoris	6.3	h. m. s. 11 31 23	+ 3.28	s. " " " " " " " "	" " " " " " " "	" " " " " " " "
1002	2952	59 Ursæ Majoris	5.5	31 57	3.22	51 17 00.0	- 19.90	.00
1003	3964	92 Leonis	5.2	34 33	3.13	44 17 25.5	19.90	-.08
1004	3965	61 Ursæ Majoris	5.1	34 44	3.17	22 01 08.8	19.93	+.01
1005	3966	62 Ursæ Majoris	5.8	35 19	3.14	34 52 46.0	19.93	-.41
1006	3968	3 Draconis	5.1	35 46	3.41	32 24 37.8	19.94	+.03
1007	3979	ξ Virginis	4.8	39 06	3.09	67 24 32.5	19.94	+.06
1008	3982	η Virginis	4.3	39 41	3.09	8 55 30.7	19.97	-.02
1009	3981	χ Ursæ Majoris	3.8	39 43	3.20	7 12 06.0	19.97	-.21
1010	3985	Ursæ Majoris	5.5	40 30	3.24	48 26 41.1	19.97	+.02
1011	3989	A ¹ Virginis	5.8	41 45	+ 3.09	56 17 46.1	19.98	.00
1012	3990	93 Leonis	4.2	41 48	3.12	8 54 43.6	- 19.99	-.02
1013	3995	β Leonis	2.1	42 56	3.06	20 53 09.0	19.99	.00
1014	3998	Ursæ Majoris	5.5	43 28	3.14	15 14 34.5	20.00	-.10
1015	4002	β Virginis	3.7	44 27	3.12	35 35 54.1	20.00	-.03
1016	4017	γ Ursæ Majoris	2.4	47 31	3.18	2 26 27.0	20.01	-.28
1017	4027	A ² Virginis	5.6	48 54	3.08	54 21 42.3	20.02	.00
1018	4031	o Leonis	5.5	49 30	3.09	9 06 39.5	20.03	-.02
1019	4033	66 Ursæ Majoris	5.8	49 42	3.17	16 18 53.0	20.03	+.06
1020*	..	Ursæ Majoris	6.0	52 ..	3.11	57 15 58.6	20.03	-.02
1021	4049	b Virginis	5.5	53 48	+ 3.07	33 49	20.04	.00
1022	4052	π Virginis	4.4	54 43	3.08	4 19 24.8	- 20.04	-.02
1023	..	184 Ursæ Majoris	5.6	55 31	3.10	7 16 59.9	20.05	-.04
1024	4057	67 Ursæ Majoris	5.1	56 01	3.07	20 53 09.0	20.05	.00
1025	4066	2 Comæ	5.8	58 08	3.08	36 42 48.8	20.05	+.02
1026	4070	Camelopardalis	5.9	58 42	3.19	43 42 39.4	20.05	+.01
1027	4072	9 Virginis (o)	4.2	59 06	3.06	22 07 39.5	20.05	+.04
1028	..	Draconis	5.5	59 08	3.14	86 15 07.8	20.05	+.05
1029	4074	Ursæ Majoris	5.8	59 36	3.03	9 23 59.0	20.05	+.05
1030	4099	3 Comæ	6.0	12 04 25	3.06	77 34 36.7	20.05	..
1031	4100	Comæ	6.0	12 04 40	+ 3.07	63 36 15.0	20.05	.00
1032	4107	Comæ	5.6	05 46	3.06	17 28 38.6	20.05	+.01
1033	..	..	5.8	06 03	3.06	27 56 57.7	- 20.05	-.02
1034	..	..	4.8	06 34	2.89	26 32 21.0	20.05	+.01
1035	..	..	5.6	09 25	2.91	21 12 35.8	20.05	+.02
1036	..	..	3.3	09 29	3.00	78 16 58.7	20.04	-.01
1037	..	..	5.0	09 55	3.06	70 52 05.8	20.04	.00
1038	..	Canum Venaticorum	5.3	10 07	3.02	57 41 56.1	20.04	-.06
1039	..	Comæ	5.2	10 16	3.04	15 34 02.3	20.04	-.01
1040	4128	Canum Venaticorum	5.0	10 28	3.04	41 19 42.8	20.03	-.03
1041*	..	Comæ	5.7	12 11.5	+ 3.03	24 36 44.8	20.03	.00
1042	4143	Draconis	5.5	13 27	2.79	33 43 55.7	20.03	-.18
1043	4145	η Virginis	3.5	13 46	3.06	29 37	- 20.03	..
1044	4148	3 Canum Venaticorum	5.5	13 54	2.98	75 49 36.8	20.02	+.02
1045	4151	c Virginis	5.0	14 15	3.05	0 00 00.0	20.02	-.01
1046	4153	D. M. 27°, 2114	4.9	14 18	3.03	49 39 00.1	20.02	-.06
1047*	..	D. M. 27°, 2115	5.8	14.6	3.03	3 58 52.0	20.02	-.07
1048	4156	11 Comæ	4.6	14 39	3.04	27 17 23.4	20.02	.00
1049	4159	70 Ursæ Majoris	5.8	15 02	2.94	27 44	20.02	..
1050	4169	12 Comæ	5.0	16 28	3.02	18 27 21.9	20.01	+.07

THE UNITED STATES COAST SURVEY.

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No.	B. A. C.	Constellation.	Mag.	A. R. 1880.	Annual Variation.	Declination 1880.	Annual Precession.	Proper Motion.
1051	4180	5 Canum Venaticorum	5.1	h. m. s. 12 18 11	+ 2.94	s. " " " " " " " "	" " " " " " " "	" " " " " " " "
1052	4181	13 Comæ	5.3	18 17	3.02	52 13 37.1	- 19.99	-.02
1053	4184	Comæ	6.0	19 13	3.04	26 45 50.9	19.99	-.02
1054	..	D. M. 64°, 896	5.8	19 30	2.83	24 35 31.4	19.98	-.14
1055	4188	6 Canum Venaticorum	4.9	19 56	2.97	64 28 03.7	19.98	...
1056	4191	14 Comæ	5.0	20 24	3.01	39 41 02.8	19.98	-.09
1057	4195	15 Comæ	4.5	20 57	3.00	27 55 59.4	19.97	-.02
1058	4196	16 Comæ	5.1	20 59	3.01	28 56 08.3	19.97	-.10
1059	4203	73 Ursæ Majoris	5.6	21 52	2.88	27 29 25.7	19.97	.00
1060	4207	17 Comæ	5.6	22 55	3.01	56 22 36.8	19.96	-.05
1061	4209	18 Comæ	5.6	22 23 27	+ 3.01	26 34 39.4	19.95	-.01
1062	4212	20 Comæ	5.7	23 42	3.03	24 46 17.8	- 19.95	-.08
1063	4216	74 Ursæ Majoris	5.5	24 21	2.83	21 33 40.0	19.94	.00
1064	4222	4 Draconis	4.8	24 51	2.68	59 03 57.3	19.94	+.06
1065	4223	21 Comæ	5.3	25 01	3.01	69 51 57.0	19.93	-.09
1066	4233	Canum Venaticorum	5.4	27 44	3.02	25 13 50.0	19.93	-.05
1067	4235	8 Canum Venaticorum	4.4	28 02	2.86	33 54 39.0	19.91	-.07
1068	4239	κ Draconis	3.8	28 21	2.60	42 00 35.4	19.90	+.30
1069	4240	23 Comæ	5.1	28 52	3.01	70 26 57.8	19.90	-.03
1070	4242	24 Comæ	4.6	29 07	3.02	23 17 25.1	19.99	.00
1071	4246	6 Draconis	5.0	12 29 39	+ 2.60	19 02 16.0	19.89	.00
1072	4248	25 Comæ	5.7	30 57	3.02	70 40 59.5	- 19.89	-.02
1073	4254	Virginis	5.8	32 15	3.06	17 45 03.1	19.87	-.04
1074	..	R Virginis	var. 6.4-II.	32 25	3.05	2 30 54.2	19.85	-.09
1075	4260	26 Comæ	5.6	33 09	2.99	7 38 55.4	19.85	...
1076	..	Canum Venaticorum	5.8	33 26	2.93	21 43 22.7	19.84	+.01
1077†	4268	γ Virginis	2.8	35 35	3.03	36 36 42.4	19.84	.00
1078	4271	ρ Virginis	5.0	35 49	3.03	0 47 30.2	19.81	-.05
1079	4274	31 Virginis (d)	5.8	35 52	3.04	10 53 50.2	19.81	-.10
1080	4287	Canum Venaticorum	5.0	39 29	2.83	7 27 55.5	19.81	-.04
1081	4286	d ² Virginis	5.8	12 39 33	+ 3.04	46 05 46.9	19.76	.00
1082	4290	27 Comæ	5.0	40 39	3.00	8 19 46.4	- 19.75	-.04
1083	4300	Ursæ Majoris	5.8	42 11	2.58	17 13 59.3	19.74	+.01
1084	4302	7 Draconis	5.3	42 40	2.52	63 26 11.4	19.71	.00
1085	4301	29 Comæ	5.6	42 53	3.01	67 26 44.7	19.71	+.01
1086*	..	Comæ	6.0	43 ..	2.95	14 46 40.0	19.70	-.06
1087	4303	11 Canum Venaticorum	6.1	43 11	2.80	25 30	19.70	...
1088	4305	Ursæ Majoris	6.0	43 25	2.62	49 07 14.9	19.70	-.05
1089	4311	Canum Venaticorum	5.8	44 29	2.87	60 58 28.4	19.60	.00
1090	4315	31 Comæ	5.0	45 51	2.93	38 10 12.5	19.68	.00
1091	4328	35 Comæ	5.0	12 47 23	+ 2.96	28 11 39.7	19.65	.00
1092	4329	41 Virginis	5.8	47 49	3.01	21 53 50.9	- 19.63	-.04
1093	4342	Camelopardalis (sq.)	5.2	48 15	0.37	13 04 15.4	19.62	-.05
1094	4335	e Ursæ Majoris	1.7	48 45	2.66	84 03 53.6	19.61	-.02
1095	4341	Canum Venaticorum	5.7	49 28	2.75	56 36 39.4	19.60	-.06
1096	4340	δ Virginis	3.6	49 34	3.02	47 50 52.4	19.59	.00
1097	4346	12 Canum Venaticorum	2.8	50 25	2.81	4 02 58.9	19.59	-.09
1098	4347	8 Draconis	4.9	50 42	2.42	38 58 00.4	19.57	+.06
1099	4351	36 Comæ	4.9	52 59	2.97	66 05 22.4	19.56	-.06
1100	4360	37 Comæ	5.0	54 32	2.88	18 03 24.9	19.52	+.06

† Double. South star.

REPORT OF THE SUPERINTENDENT OF

CATALOGUE OF STARS FOR OBSERVATIONS OF LATITUDE.

No.	B. A. C.	Constellation.	Mag.	A. R. 1880.	Annual Variation.	Declination 1880.	Annual Precession.	Proper Motion.
1101	..	Draconis	6.0	h. m. s.	s.	" "	" "	" "
1102	4365	9 Draconis	5.4	12 55 15	+ 1.78	76 07 09.5	- 19.47	.00
1103	4366	78 Ursæ Majoris	5.6	55 23	2.29	67 14 41.0	19.47	-.02
1104	4367	e Virginis	3.0	56 12	2.99	11 36 16.2	19.45	+.03
1105	4371	Draconis	5.8	57 06	2.38	64 15 18.3	19.43	+.02
1106	..	Canum Venaticorum	5.8	58 25	2.75	43 39 08.6	19.41	.00
1107	4384	14 Canum Venaticorum	5.3	13 00 08	2.82	36 26 28.9	19.37	.00
1108	4389	Canum Venaticorum	5.4	00 28	2.71	45 54 37.0	19.36	.00
1109	4387	39 Comæ	5.8	00 30	2.93	21 47 51.2	19.36	-.03
1110	4388	40 Comæ	5.7	00 32	2.93	23 15 38.5	19.36	+.02
1111	..	Ursæ Minoris	6.0	13 01 07	+ 1.87	73 40 03.0	- 19.35	.00
1112	4390	41 Comæ	4.9	01 25	2.85	28 16 07.7	19.34	-.09
1113	4392	Ursæ Majoris	6.0	01 39	2.39	62 41 08.4	19.33	-.03
1114	4407	Canum Venaticorum	6.0	04 07	2.78	38 03 46.5	19.27	.00
1115	4406	42 Comæ	4.8	04 09	2.92	18 09 52.0	19.27	+.13
1116	4421	43 Comæ	4.7	06 16	2.81	28 29 13.2	19.22	+.91
1117	4423	Virginis	6.0	06 35	2.99	12 11 41.4	19.21	-.04
1118	4433	Canum Venaticorum	4.9	08 16	2.73	40 47 17.2	19.17	-.06
1119	4438	19 Canum Venaticorum	5.8	10 08	2.72	41 29 22.0	19.12	+.02
1120	4440	e Virginis	5.6	10 49	2.98	10 03 05.7	19.10	+.19
1121	4444	Virginis	5.4	13 11 20	+ 2.97	14 18 25.8	- 19.09	-0.11
1122	4446	σ Virginis	5.0	11 33	3.03	6 06 10.4	19.08	+.06
1123	4451	20 Canum Venaticorum	4.8	12 14	2.70	41 12 18.5	19.07	+.03
1124*	..	Draconis	6.0	12 5	1.99	69 02	19.06	...
1125	4456	21 Canum Venaticorum	5.1	13 08	2.57	50 18 47.3	19.04	-.03
1126	4467	23 Canum Venaticorum	5.6	14 56	2.70	40 46 51.5	18.99	-.01
1127*	4470	Virginis	5.5	15 6	3.05	2 43	18.97	...
1128	4479	D. M. 37°, 2404	5.8	18 27	2.72	37 39 40.2	18.89	.00
1129	4484	5 Ursæ Majoris	2.0	19 06	2.43	55 33 08.2	18.87	-.04
1130	..	Comæ	5.6	19 23	2.86	24 28 49.8	18.86	...
1131	4493	80 Ursæ Majoris (g)	4.9	13 20 25	+ 2.42	55 36 48.3	- 18.83	-.03
1132	..	Canum Venaticorum	5.8	21 07	2.58	46 39 11.8	18.81	.00
1133	4499	70 Virginis	5.3	22 34	2.93	14 25 11.9	18.76	-.57
1134	4506	Ursæ Minoris	5.5	23 04	1.52	73 00 52.8	18.75	-.03
1135	4510	Ursæ Majoris	5.2	24 03	2.21	60 33 54.5	18.72	-.02
1136	4527	Camelopardalis	5.8	25 57	0.45	79 15 49.9	18.66	+.02
1137	4526	Comæ	6.0	27 07	2.84	24 58 15.1	18.62	.00
1138	4529	78 Virginis (o)	4.9	28 03	3.03	4 16 32.3	18.59	-.04
1139	4532	5 Virginis	3.4	28 35	3.05	0 01 05.8	18.57	+.06
1140	4536	Canum Venaticorum	5.3	29 26	2.68	37 47 48.5	18.54	-.09
1141	4540	81 Ursæ Majoris	5.8	13 29 31	+ 2.32	55 57 49.5	- 18.54	-.02
1142	4538	24 Canum Venaticorum	4.7	29 33	2.46	49 37 46.7	18.54	-.02
1143*	..	Comæ	5.8	31 3	2.83	25 13	18.48	...
1144	4552	25 Canum Venaticorum	5.1	32 08	2.68	36 54 20.2	18.45	.00
1145	..	Camelopardalis	6.0	32 20	0.81	77 09 33.8	18.45	...
1146	4559	Bootis	5.2	33 40	2.97	11 21 22.5	18.40	.00
1147	..	Ursæ Minoris	5.7	34 18	1.44	71 51 10.7	18.38	.00
1148*	..	Canum Venaticorum	5.8	34 8	2.74	31 37	18.36	...
1149	4564	82 Ursæ Majoris	5.5	34 52	2.33	53 31 39.9	18.36	-.01
1150	4562	1 Bootis	5.4	34 57	2.87	20 33 47.1	18.36	+.02

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No.	B. A. C.	Constellation.	Mag.	A. R. 1880.	Annual Variation.	Declination 1880.	Annual Precession.	Proper Motion.
1151	4566	2 Bootis	5.5	h. m. s.	s.	" "	" "	" "
1152	4568	83 Ursæ Majoris	5.3	13 35 22	+ 2.84	23 06 15.6	- 18.34	+.01
1153	4570	84 Virginis	5.5	36 11	2.28	55 17 19.7	18.31	-.05
1154	..	Canum Venaticorum	6.2	37 02	3.01	4 08 44.9	18.28	-.08
1155	4577	Draconis	5.8	37 22	2.57	42 16 46.0	18.27	...
1156	4595	D. M. 39°, 2678	5.9	37 45	1.86	65 25 35.1	18.25	-.27
1157	4596	Canum Venaticorum	6.0	41 07	2.61	39 06 18.8	18.13	.00
1158	4594	3 Bootis	5.8	41 08	2.56	41 41 30.6	18.13	.00
1159	4597	7 Bootis	4.5	41 09	2.79	26 18 18.7	18.13	-.01
1160	4600	Canum Venaticorum	5.6	41 34	2.85	18 03 20.3	18.12	+.05
1161	4614	D. M. 78°, 466	5.6	41 50	2.60	39 08 37.6	18.11	...
1162	4607	7 Ursæ Majoris	1.8	13 42 10	+ 0.18	78 39 55.5	- 18.09	+.07
1163	4610	Canum Venaticorum	5.6	42 49	2.37	49 54 45.2	18.07	-.03
1164	4615	v Bootis	4.3	43 14	2.71	31 47 10.6	18.05	.00
1165	4618	e Bootis	4.9	43 41	2.89	16 23 38.3	18.04	+.05
1166*	4628	Canum Venat. (sq.)	5.4	44 02	2.84	21 51 38.2	18.02	+.16
1167	..	Draconis	5.8	45 51	2.65	35 15 41.2	17.95	...
1168	4632	Canum Venaticorum	5.2	45 51	1.95	62 05 20.7	17.95	.00
1169	4640	Canum Venaticorum	5.8	46 30	2.65	35 02 21.6	17.92	.00
1170	4646	i Draconis	4.8	47 44	2.74	29 14 19.2	17.88	-.12
1171	..	Ursæ Minoris	6.0	47 56	2.76	65 18 58.2	17.87	-.04
1172	4648	7 Bootis	2.9	13 48 04	+ 1.50	68 54 39.0	- 17.87	...
1173	4649	86 Ursæ Majoris	5.8	48 58	2.86	18 59 59.9	17.83	-.33
1174	4651	92 Virginis	5.7	49 26	2.22	54 19 05.7	17.81	-.11
1175	4656	9 Bootis	5.0	50 21	3.05	1 38 17.5	17.78	+.03
1176	4664	10 Bootis	5.6	51 05	2.74	28 04 51.6	17.75	-.95
1177*	..	Bootis	5.8	53 01	2.81	22 16 56.5	17.66	-.02
1178	4672	r Virginis	4.2	55 4	2.96	9 29	17.56	...
1179*	..	Canum Venaticorum	6.4	55 32	3.05	2 07 32.3	17.56	-.07
1180	4684	Bootis	6.2	57 4	2.39	46 20	17.48	...
1181	4666	a Draconis	3.8	58 32	2.25	51 32 54.6	17.43	-.09
1182	4699	Bootis	5.2	14 01 08	+ 1.62	64 56 57.6	- 17.32	-.03
1183	4701	13 Bootis	5.2	03 08	2.41	44 25 30.5	17.23	-.12
1184	4706	d Bootis	4.8	03 48	2.24	50 01 29.8	17.20	-.03
1185	..	D. M. 60°, 1516	5.8	04 56	2.74	25 39 39.2	17.15	-.05
1186	4713	Virginis	4.7	05 03	1.87	59 54 23.7	17.14	...
1187	4724	15 Bootis	4.7	06 11	3.04	2 58 29.5	17.08	-.04
1188	4726	k Bootis	5.5	08 58	2.94	10 39 59.5	16.96	-.17
1189	4733	4 Ursæ Minoris	4.5	09 11	2.16	52 21 04.5	16.95	-.02
1190	4732	Ursæ Minoris	5.0	09 21	- 0.33	78 06 39.2	16.94	-.01
1191	4729	a Bootis	5.3	09 49	+ 1.02	69 59 44.9	16.92	-.06
1192	4741	λ Bootis	0.2	14 10 11	+ 2.73	19 48 29.7	- 16.90	-1.93
1193	4742	i Bootis	4.2	11 49	2.29	46 38 22.9	16.83	+.13
1194	4747	A Bootis	4.8	11 55	2.13	51 55 16.0	16.82	+.07
1195	4748	v Virginis	4.8	12 55	2.53	36 03 49.5	16.77	.00
1196	4751	18 Bootis	4.9	13 22	3.09	- 1 42 36.0	16.75	-.09
1197	4753	20 Bootis	5.5	13 28	2.90	13 33 34.0	16.75	+.07
1198	4758	Bootis	5.2	14 05	2.84	16 51 26.9	16.72	+.10
1199	4766	Bootis	5.9	14 52	2.46	39 20 46.3	16.68	.00
1200	4773	Bootis	4.9	17 29	2.96	8 59 34.8	16.55	-.06
			5.2	18 13	2.98	6 21 55.0	16.52	+.03

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				h. m. s.	s.	" " "	"	"
1201	4789	♄ Bootis.	4.2	14 21 07	+ 2.04	52 24 21.1	- 16.37	- .41
1202	4792	♍ Virginis.	4.9	22 01	3.09	1 41 21.2	16.32	- .02
1203	4804	24 Bootis (g).	5.7	24 27	2.09	50 22 55.9	16.20	- .09
1204	4808	♌ Bootis.	3.8	26 39	2.59	30 53 56.7	16.09	+ .14
1205	4810	26 Bootis.	5.4	27 05	2.72	22 47 19.8	16.06	+ .05
1206	4812	γ Bootis.	3.1	27 15	2.42	38 50 01.1	16.05	+ .14
1207	4822	5 Ursæ Minoris.	4.6	27 48	- 0.20	76 13 44.3	16.02	- .02
1208*		Draconis.	5.7	28.8	+ 1.88	55 56	15.97	...
1209	4823	♌ Bootis.	4.9	29 27	2.61	30 16 01.5	15.94	+ .12
1210	4830	Bootis.	5.9	30 28	2.10	49 53 29.9	15.88	.00
1211	4841	Bootis.	5.8	14 33 42	+ 2.26	44 09 36.1	- 15.71	.00
1212	4843	33 Bootis.	5.4	34 22	2.23	44 55 21.8	15.68	- .10
1213	4845	Bootis.	5.7	34 28	1.90	54 32 31.6	15.67	- .06
1214*		Bootis.	6.0	34.9	2.73	22 30	15.65	...
1215	4847	π Bootis, (1st *)	4.1	35 05	2.82	16 56 01.8	15.64	+ .02
1216	4849	ζ Bootis.	3.7	35 25	2.86	14 14 38.7	15.62	.00
1217	4850	31 Bootis.	5.1	35 45	2.99	8 40 32.7	15.60	- .02
1218	4853	32 Bootis.	5.4	35 58	2.89	12 10 44.7	15.58	- .07
1219	4864	34 Bootis.	5.4	38 09	2.64	27 02 20.9	15.47	+ .01
1220	4874	Draconis.	5.8	39 04	1.48	61 46 26.9	15.42	.00
1221*		Virginis.	6.0	14 39 00	+ 3.09	- 0 54	- 15.42	...
1222	4870	Bootis.	5.4	39 05	2.33	40 58 03.3	15.41	.00
1223	4873	♌ Bootis.	4.5	39 38	2.80	17 28 24.2	15.38	- .04
1224	4876	ε Bootis.	2.6	39 45	2.62	27 34 51.6	15.38	- .03
1225	4878	109 Virginis.	3.9	40 11	3.03	2 23 57.8	15.35	- .02
1226*		Bootis.	5.6	40.5	2.83	15 38	15.33	...
1227	4898	11 Libræ.	5.1*	44 48	3.10	- 1 47 53.5	15.09	- .14
1228*		Bootis.	5.7	44.9	2.67	24 25	15.09	...
1229	4903	38 Bootis (h)	5.8	45 02	2.14	46 37 01.0	15.08	- .09
1230	4907	39 Bootis.	5.7	45 37	2.04	49 12 52.1	15.04	+ .02
1231	4906	Bootis.	5.6	14 45 46	+ 2.38	37 45 52.0	- 15.03	.00
1232	4905	ξ Bootis, (2d *)	4.7	45 51	2.77	19 35 57.8	15.02	- .14
1233	4918	Draconis.	5.5	48 24	1.52	59 46 54.3	14.88	+ .07
1234	4936	β Ursæ Minoris.	2.2	51 04	- 0.25	74 38 44.2	14.72	- .03
1235	4931	Libræ.	6.0	51 24	+ 3.07	0 18 59.8	14.70	- .04
1236	4937	Bootis.	5.8	52 25	2.01	50 07 09.7	14.64	- .27
1237	4943	40 Bootis.	5.4	55 01	2.30	39 44 30.8	14.49	+ .03
1238	4949	Ursæ Minoris.	4.6	55 41	0.04	66 24 38.2	14.44	+ .05
1239	4951	40 Virginis.	4.7	56 50	3.03	2 33 49.3	14.38	+ .01
1240	4953	ω Bootis.	4.7	56 51	2.63	25 28 59.6	14.38	- .06
1241	4958	β Bootis.	3.6	14 57 26	+ 2.26	40 51 52.2	- 14.34	- .04
1242	4961	Bootis.	5.7	58 19	2.41	35 40 35.7	14.29	.00
1243	4982	Camelopardalis.	5.8	58 31	- 4.58	83 00 16.5	14.27	.00
1244*	4967	Draconis.	5.8	58 39	+ 1.38	60 40 33.5	14.27	...
1245	4969	ψ Bootis.	4.6	59 18	2.57	27 24 59.1	14.22	- .01
1246	4974	i Bootis.	4.8	59 50	1.98	48 07 18.1	14.19	+ .03
1247	4980	k Bootis.	5.8	15 01 27	1.98	48 36 54.2	14.08	.00
1248	4981	c Bootis.	5.0	02 02	2.63	25 20 14.8	14.06	- .16
1249	4989	Ursæ Minoris.	5.7	02 08	0.89	66 23 09.3	14.05	.00
1250	4992	Draconis.	5.2	02 51	1.70	55 01 07.4	14.01	.00

* Suspected variable, D. M. 4.4, § 5.8.

CATALOGUE OF STARS FOR OBSERVATIONS OF LATITUDE.

No.	B. A. C.	Constellation.	Mag.	A. R. 1880.	Annual Variation.	Declination 1880.	Annual Precession.	Proper Motion.
				h. m. s.	s.	" " "	"	"
1251		Bootis.	5.7	15 06 37	+ 2.73	19 25 42.7	- 13.76	...
1252	5026	Bootis.	6.0	09 01	2.28	38 42 54.7	13.61	.00
1253	5024	3 Serpenteis.	5.3	09 13	2.98	5 23 08.4	13.60	- .03
1254	5031	χ Bootis.	5.2	09 28	2.51	29 36 37.0	13.58	+ .01
1255	5030	4 Serpenteis.	5.6	09 42	3.06	0 49 03.2	13.57	+ .01
1256	5036	δ Bootis.	3.6	10 40	2.42	33 45 48.5	13.51	- .09
1257	5047	5 Serpenteis.	4.9	13 11	3.05	2 13 13.3	13.34	- .52
1258	5058	Ursæ Minoris.	5.1	13 15	0.66	67 48 10.3	13.34	- .39
1259*		D. M. 46°, 2052.	5.8	14.2	2.03	46 03	13.27	...
1260	5061	♌ Coronæ Borealis.	5.7	15 11	2.48	30 03 07.6	13.21	- .06
1261		D. M. 25°, 2902.	5.8	15 15 56	+ 2.59	25 23 32.0	- 13.16	...
1262	5071	Draconis.	5.6	16 34	1.76	52 23 28.5	13.12	.00
1263	5072	50 Bootis.	5.3	17 00	2.40	33 21 51.8	13.09	+ .02
1264	5079	11 Ursæ Minoris.	5.2	17 12	- 0.06	72 15 34.3	13.08	+ .03
1265	5076	Bootis.	5.4	18 11	+ 2.22	40 00 38.5	13.01	.00
1266	5075	η Coronæ Borealis.	5.0	18 15	2.48	30 43 19.9	13.01	- .18
1267	5084	μ Bootis.	4.3	19 57	2.26	37 47 56.0	12.89	+ .09
1268*		D. M. 45°, 2284.	5.7	20.1	2.02	45 42	12.88	...
1269	5085	τ Serpenteis.	4.8	20 14	2.78	15 51 04.5	12.88	+ .08
1270		Draconis.	6.0	20 23	1.10	62 28 28.6	12.86	...
1271	5091	Draconis.	5.8	15 20 38	+ 0.99	63 46 16.2	- 12.85	.00
1272	5094	γ Ursæ Minoris.	3.0	20 56	- 0.12	72 15 40.8	12.82	+ .03
1273		Bootis.	5.8	21 35	+ 2.36	34 45 15.2	12.78	...
1274	5097	ι Draconis.	3.2	22 16	1.33	59 23 13.6	12.74	+ .04
1275*		Coronæ Borealis.	5.8	22.5	2.58	25 31	12.72	...
1276	5098	β Coronæ Borealis.	3.7	22 53	2.48	29 31 12.8	12.70	+ .07
1277*		D. M. 47°, 2227.	5.4	24.9	1.93	47 38	12.56	...
1278	5122	ν Bootis (pr.)	4.8	26 37	2.15	41 14 35.8	12.44	+ .01
1279	5119	Α Serpenteis.	5.8	26 47	3.09	- 0 46 41.2	12.43	- .09
1280	5130	ν Bootis (sq.)	4.9	27 29	2.14	41 18 27.7	12.38	+ .01
1281	5131	θ Coronæ Borealis.	4.2	15 28 05	+ 2.41	31 45 54.8	- 12.34	- .02
1282†	5135	δ Serpenteis.	3.8	29 04	2.86	10 56 27.8	12.27	+ .05
1283	5147	Draconis.	5.7	29 16	0.86	64 36 42.7	12.25	+ .01
1284	5143	α Coronæ Borealis.	2.1	29 36	2.54	27 07 10.8	12.23	- .07
1285	5146	τ Serpenteis.	5.8	30 06	2.72	18 03 25.3	12.20	+ .04
1286	5155	μ Coronæ Borealis.	6.0	30 51	2.20	39 24 34.1	12.15	.00
1287	5153	τ Serpenteis.	5.8	30 58	2.76	16 31 01.8	12.14	- .01
1288		Draconis.	6.0	32 06	1.58	54 19 11.6	12.06	...
1289*		D. M. 52°, 1886.	5.8	32.7	1.68	52 28	12.02	...
1290		D. M. 55°, 1766.	5.8	32 52	1.54	55 01 39.1	12.01	...
1291	5168	φ Bootis.	5.1	15 33 31	+ 2.15	40 44 42.7	- 11.96	+ .07
1292	5177	Herculis.	5.7	34 26	1.92	47 11 37.3	11.90	- .13
1293		Draconis.	5.8	34 27	1.54	54 54 08.6	11.90	...
1294	5178	ζ Coronæ Borealis.	4.4	34 52	2.26	37 01 32.3	11.87	- .10
1295	5191	θ Ursæ Minoris.	5.0	35 00	- 1.92	77 44 53.8	11.86	+ .01
1296	5181	Dræconis.	5.6	35 04	+ 1.75	50 48 56.7	11.85	.00
1297	5180	τ Serpenteis.	5.8	35 28	2.76	16 24 46.6	11.82	+ .06
1298	5185	χ Serpenteis.	5.4	36 09	2.82	13 13 59.9	11.77	.00
1299	5187	ι Serpenteis.	4.5	36 12	2.67	20 03 29.4	11.77	- .02
1300	5189	τ Serpenteis.	5.8	36 31	2.70	18 50 51.7	11.75	+ .09

† Double.

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No.	B. A. C.	Constellation.	Mag.	A. R. 1880.	Annual Variation.	Declination 1880.	Annual Precession.	Proper Motion.
1301*		Ursæ Minoris	5.8	h. m. s. 15 37.4	s. + 0.14	° ' " . . . 69 40 . . .	" - 11.69	" ...
1302	5192	γ Coronæ Borealis	3.8	37 42	2.52	26 40 36.7	11.67	+ .08
1303	5196	α Serpentis	2.8	38 21	2.95	6 38 15.0	11.62	+ .05
1304	5210	β Draconis	5.1	39 35	1.63	52 44 23.3	11.53	.00
1305	5206	α ² Serpentis	5.6	39 53	3.10	- 1 25 36.8	11.51	- .05
1306	5214	λ Serpentis	4.7	40 37	2.91	7 43 49.5	11.46	- .04
1307	5216	β Serpentis	3.6	40 39	2.77	15 47 55.2	11.46	- .01
1308	5223	ν Serpentis	5.8	41 43	2.79	14 29 06.8	11.38	- .10
1309	5234	κ Serpentis	4.0	43 20	2.70	18 30 48.7	11.26	- .06
1310	5236	R Coronæ Borealis	var. 6-13.	43 38	2.49	28 31 34.1	11.24	.00
1311	5238	ω Serpentis	5.5	15 44 14	+ 3.02	2 33 49.4	- 11.20	- .07
1312	5244	δ Coronæ Borealis	4.6	44 34	2.51	26 26 12.0	11.17	- .06
1313	5248	β Draconis	5.4	44 44	1.44	55 44 40.0	11.16	...
1314	5245	ε Serpentis	3.7	44 50	2.99	4 50 24.2	11.16	+ .07
1315	5249	β Draconis	5.5	44 50	0.90	62 58 14.8	11.16	- .05
1316		β Draconis	6.0	45 13	1.15	59 56 14.0	11.13	...
1317	5252	ρ Serpentis	4.9	46 00	2.63	21 20 24.5	11.07	+ .03
1318	5259	κ Coronæ Borealis	4.8	46 42	2.25	36 01 39.0	11.02	- .33
1319	5285	ζ Ursæ Minoris	4.5	48 23	- 2.25	78 09 46.3	10.89	- .00
1320	5271	χ Herculis	4.5	48 32	+ 2.07	42 47 16.0	10.88	+ .58
1321	5287	z Herculis	5.2	15 50 38	+ 2.01	43 29 19.5	- 10.73	+ .06
1322	5284	γ Serpentis	3.6	50 55	2.77	16 03 16.0	10.71	- 1.27
1323	5295	λ Coronæ Borealis	5.6	51 26	2.18	38 17 40.2	10.67	+ .09
1324	5298	4 Herculis	5.7	51 28	2.02	42 54 37.7	10.66	.00
1325	5293	o Serpentis	5.6	51 43	2.78	14 45 32.8	10.65	- .05
1326	5302	ε Coronæ Borealis	4.1	52 37	2.48	27 13 35.1	10.58	- .03
1327	5310	Coronæ Borealis	5.9	54 32	2.22	36 59 06.2	10.44	+ .02
1328	5313	β Draconis	5.0	54 56	1.41	55 05 20.5	10.41	.00
1329*	5316	Herculis	5.8	55 40	1.70	50 13 26.8	10.35	.00
1330	5315	r Herculis	5.2	55 51	2.69	18 09 04.5	10.34	+ .17
1331	5319	ρ Coronæ Borealis	5.5	15 56 27	+ 2.29	33 40 00.1	- 10.29	- .75
1332	5321	ι Coronæ Borealis	4.7	56 38	2.41	30 11 14.7	10.28	- .07
1333	5322	π Serpentis	4.5	57 08	2.58	23 08 20.8	10.25	+ .08
1334	5341	β Draconis	6.0	59 02	1.52	53 15 00.4	10.10	.00
1335	5338	ν Herculis	4.6	59 04	1.86	46 22 13.8	10.10	- .07
1336	5348	θ Draconis	4.1	59 38	1.11	58 53 09.5	10.06	+ .32
1337	5367	κ Herculis	5.1	16 02 40	2.70	17 22 04.2	9.82	.00
1338	5385	τ Coronæ Borealis	4.8	04 35	2.20	36 47 48.5	9.68	+ .35
1339	5388	φ Herculis	4.1	04 59	1.87	45 15 00.4	9.65	+ .04
1340	5406	β Draconis	5.6	06 00	0.14	68 07 35.3	9.57	+ .07
1341	5399	10 Herculis	5.9	16 06 31	+ 2.55	23 48 21.5	- 9.53	- .02
1342	5405	9 Herculis	5.8	07 19	2.97	5 19 45.3	9.47	- .03
1343		Ursæ Minoris	5.8	07 31	- 2.08	77 06 45.8	9.45	...
1344		D. M. 39°, 2961	5.8	07 54	+ 2.10	39 21 54.1	9.42	...
1345	5426	16 Herculis	6.0	10 10	2.66	19 06 43.5	9.25	- .09
1346	5432	σ Coronæ Borealis	5.4	10 11	2.24	34 09 49.8	9.25	- .04
1347	5440	ν Coronæ Borealis	5.5	11 56	2.40	29 26 53.3	9.12	- .05
1348	5462	19 Ursæ Minoris	5.6	14 15	- 1.79	76 10 43.2	8.93	.00
1349	5459	β Draconis	5.6	15 15	+ 0.99	60 03 46.5	8.85	.00
1350	5460	Herculis	5.4	15 49	2.06	39 59 48.2	8.81	.00

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No.	B. A. C.	Constellation.	Mag.	A. R. 1880.	Annual Variation.	Declination 1880.	Annual Precession.	Proper Motion.
1351	5461	Herculis	6.0	h. m. s. 16 15 50	s. + 1.67	° ' " . . . 49 19 32.6	" - 8.81	" ...
1352	5456	σ Serpentis	4.9	16 00	3.04	1 18 44.5	8.79	+ .07
1353	5463	τ Herculis	3.8	16 08	1.80	46 35 59.0	8.78	+ .03
1354	5466	γ Herculis	3.8	16 38	2.64	19 26 10.0	8.74	+ .06
1355	5473	ξ Coronæ Borealis	4.9	17 25	2.34	31 10 17.1	8.68	+ .12
1356	5479	η Coronæ Borealis (pr.)	5.4	17 51	2.26	34 04 55.5	8.65	- .08
1357	5480	ν Coronæ Borealis (sq.)	5.8	17 58	2.27	33 58 58.8	8.65	- .02
1358	5481	21 Herculis (q)	5.8	18 20	2.92	7 13 37.0	8.60	+ .04
1359	5490	ω Herculis	4.9	19 53	2.76	14 18 40.2	8.48	- .02
1360	5511	η Ursæ Minoris	4.9	21 02	- 1.80	76 01 51.6	8.40	+ .26
1361	5496	25 Herculis	5.5	16 21 08	+ 2.13	37 40 05.8	- 8.39	.00
1362	5502	β Draconis	5.4	21 48	1.30	55 28 41.6	8.33	.00
1363	5514	β Draconis	5.4	22 06	- 0.16	69 23 12.3	8.31	.00
1364	5512	η Draconis	2.8	22 22	+ 0.82	61 47 10.1	8.29	+ .07
1365*		φ Ophiuchi	5.8	22 5	3.05	0 55 . . .	8.27	...
1366	5523	g Herculis	var. 4.7-6.1	24 42	1.97	42 08 50.5	8.10	+ .09
1367	5520	λ Ophiuchi	3.9	24 52	3.02	2 14 53.2	8.09	- .05
1368	5525	β Herculis	3.0	25 04	2.58	21 45 00.5	8.07	+ .01
1369	5527	s Herculis	5.8	25 21	2.61	20 44 35.2	8.05	.00
1370	5531	n Herculis	5.6	26 42	2.95	5 46 40.0	7.94	- .04
1371	5535	34 Herculis	5.7	16 26 48	+ 1.64	49 13 21.3	- 7.93	- .07
1372	5532	h Herculis	5.1	27 00	2.81	11 44 49.2	7.92	- .05
1373	5545	A Draconis	5.0	28 13	- 0.14	69 01 39.3	7.82	+ .03
1374*		Herculis	5.7	28.3	+ 1.80	45 53 . . .	7.81	...
1375	5547	12 Ophiuchi	5.5	30 03	3.09	- 2 04 00.8	7.67	- .32
1376	5552	σ Herculis	4.2	30 15	1.93	42 41 07.5	7.65	+ .04
1377	5560	β Draconis	5.8	30 45	0.85	61 04 30.9	7.62	+ .04
1378	5563	D. M. 13° 3177	5.8	32 16	2.76	13 55 50.1	7.49	- .13
1379	5592	Ursæ Minoris	5.6	32 27	- 3.42	79 13 03.7	7.47	.00
1380	5568	Herculis	5.7	32 41	+ 1.75	46 51 26.0	7.45	...
1381	5574	16 Draconis	5.2	16 33 21	+ 1.41	53 08 30.3	- 7.40	+ .02
1382	5575	17 Draconis	4.9	33 24	1.41	53 09 56.8	7.40	.00
1383	5587	Herculis	6.0	35 16	2.79	12 37 43.6	7.24	- .06
1384	5596	42 Herculis	4.6	35 30	1.63	49 09 48.2	7.22	- .01
1385	5599	β Draconis	5.3	35 35	1.21	56 14 59.9	7.22	.00
1386	5597	Herculis	5.8	36 02	2.49	25 05 27.4	7.19	.00
1387	5602	39 Herculis	5.9	36 45	2.43	27 08 56.1	7.12	- .02
1388	5604	ζ Herculis	3.0	36 46	2.26	31 49 16.4	7.12	+ .45
1389	5617	η Herculis	3.5	38 47	2.05	39 09 05.7	6.96	- .07
1390	5619	Herculis	5.6	39 26	2.22	34 15 35.2	6.91	- .01
1391	5621	i Herculis	5.5	16 40 04	+ 2.88	8 48 10.2	- 6.85	+ .04
1392	5628	g Draconis	5.2	40 05	0.40	64 48 59.8	6.85	- .02
1393*		Herculis	6.0	41.4	1.88	43 26 . . .	6.75	...
1394	5631	1 Herculis	5.4	41 52	2.95	5 27 59.6	6.70	- .06
1395		D. M. 13°, 3225	5.7	42 37	2.76	13 48 13.4	6.64	...
1396	5643	Herculis	4.9	43 01	1.13	56 59 46.6	6.61	.00
1397	5647	Herculis	5.6	44 02	2.77	13 28 20.6	6.53	.00
1398	5648	k Herculis	5.7	44 30	2.91	7 27 23.2	6.49	+ .02
1399	5659	21 Ophiuchi	5.8	45 20	3.04	1 25 19.2	6.42	+ .01
1400	5667	52 Herculis	4.9	45 43	1.75	46 11 34.9	6.39	- .07

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No.	B. A. C.	Constellation.	Mag.	A. R. 1880.	Annual Variation.	Declination 1880.	Annual Precession.	Proper Motion.
1401	5677	51 Herculis	5.2	h. m. s. 16 46 47	s. + 2.48	" " " 24 51 32.5	" - 6.30	" + .01
1402	5692	" Ophiuchi	4.4	48 20	2.84	10 21 50.6	6.17	- .04
1403	5705	" Ursæ Minoris	6.0	48 27	- 2.76	77 43 08.8	6.15	.00
1404*	..	" Herculis	5.6	49.7	+ 2.58	21 11	6.05	...
1405	5702	54 Herculis	5.0	50 06	2.63	18 37 36.3	6.02	+ .05
1406	5708	" Ophiuchi	3.2	51 59	2.83	9 33 47.0	5.86	+ .02
1407	5740	" Draconis	5.0	55 22	0.31	65 19 04.5	5.58	+ .01
1408	5731	" Herculis	3.9	55 42	2.29	31 06 15.5	5.55	+ .04
1409*	..	" Herculis	5.7	55.9	2.53	22 49	5.54	...
1410	5752	" Draconis	6.0	57 10	1.10	56 51 57.1	5.43	+ .37
1411	5747	" d Herculis	5.0	16 57 11	+ 2.21	33 44 35.8	- 5.43	+ .03
1412	..	" Herculis	5.8	57 23	2.45	25 40 32.2	5.41	...
1413	5749	" Herculis	4.9	57 38	2.75	14 15 57.6	5.39	- .05
1414	5780	" e Ursæ Minoris	4.3	58 19	- 6.37	82 13 56.2	5.33	+ .00
1415	5769	" Ursæ Minoris	6.0	58 40	- 1.23	73 18 31.7	5.30	.00
1416	5760	" Ophiuchi	5.7	59 21	+ 3.09	- 0 43 40.0	5.25	- .14
1417*	..	" Herculis	5.8	59.3	2.61	19 46	5.25	...
1418	5765	60 Herculis	4.7	59 49	2.78	12 54 26.0	5.21	+ .02
1419*	..	" Herculis	5.8	17 01.2	2.54	22 15	5.01	...
1420	5776	" Herculis	6.0	01 38	1.58	48 58 07.5	5.06	- .19
1421	5785	" μ Draconis	4.8	17 02 51	+ 1.25	54 37 42.1	- 4.95	+ .03
1422	5788	" c Herculis	5.3	03 47	2.12	36 05 30.6	4.88	- .02
1423	5811	" Ursæ Minoris	5.7	05 27	- 1.94	75 27 46.5	4.72	.00
1424*	..	" Herculis	4.9	05.7	+ 1.95	40 56	4.71	...
1425	5802	37 Ophiuchi	5.5	06 48	2.83	10 43 55.8	4.63	- .01
1426*	..	" Draconis	5.8	07.9	1.37	52 33	4.52	...
1427	5823	" ζ Draconis	3.1	08 27	0.17	65 51 45.1	4.47	+ .07
1428	5821	" α Herculis	var. 3.3-3.9	09 11	2.73	14 31 41.8	4.41	+ .04
1429	5828	" δ Herculis	3.1	10 06	2.46	24 58 54.0	4.33	- .15
1430*	..	" Ophiuchi	5.6	10.5	3.04	1 21	4.30	...
1431	5830	41 Ophiuchi	4.6	17 10 27	+ 3.08	- 0 18 30.4	- 4.30	- .06
1432	5834	" π Herculis	3.3	10 52	2.09	36 56 43.8	4.26	+ .04
1433	5840	" Draconis	5.5	11 31	0.51	63 00 39.8	4.21	- .03
1434*	..	" Herculis	5.8	12.8	2.66	17 27	4.10	...
1435	5842	" u Herculis	4.9	12 54	2.21	33 13 50.3	4.09	+ .02
1436	5841	" Ophiuchi	4.9	12 59	2.82	10 59 44.6	4.08	- .09
1437	5847	" e Herculis	4.7	13 32	2.07	37 25 05.1	4.04	+ .08
1438*	..	" Herculis	5.5	14.1	2.35	28 57	3.99	...
1439	..	" Herculis	5.8	14 22	2.01	38 56 04.0	3.97	...
1440	5856	" Herculis	5.4	15 02	2.64	18 10 53.1	3.91	- .05
1441*	..	" Herculis	5.8	17 15.3	+ 2.44	25 39	- 3.89	...
1442	5860	70 Herculis	5.5	15 58	2.47	24 37 11.1	3.83	.00
1443	5863	" w Herculis	5.3	16 10	2.24	32 37 25.6	3.82	- 1.00
1444	5871	74 Herculis	5.3	16 58	1.69	46 21 32.4	3.74	+ .02
1445	5874	" Herculis	5.5	17 47	1.97	40 05 37.4	3.67	.00
1446	5883	73 Herculis	5.6	19 06	2.52	23 04 22.5	3.56	- .03
1447*	..	" Ophiuchi	5.4	19.1	2.69	16 25	3.56	...
1448*	..	" Draconis	5.8	19.2	1.29	53 32	3.55	...
1449	5886	" ρ Herculis	4.1	19 32	2.07	37 15 28.7	3.52	+ .02
1450	5893	" σ Ophiuchi	4.2	20 34	2.98	4 14 45.9	3.43	+ .02

CATALOGUE OF STARS FOR OBSERVATIONS OF LATITUDE.

No.	B. A. C.	Constellation.	Mag.	A. R. 1880.	Annual Variation.	Declination 1880.	Annual Precession.	Proper Motion.
1451	5900	Herculis	5.6	h. m. s. 17 21 38	s. + 2.59	" " " 20 10 59.3	" - 3.34	" - .13
1452	5903	" Ophiuchi	5.3	22 43	3.06	0 25 41.4	3.25	- .12
1453	5911	" x Herculis	5.7	23 33	1.59	48 21 41.0	3.17	- .03
1454	5917	" Draconis	5.2	24 08	0.77	60 08 58.0	3.13	...
1455*	5910	" Ophiuchi	5.3	24.2	3.09	- 0 57	3.12	...
1456	5918	" Draconis	6.0	24 17	0.89	58 45 10.2	3.11	+ .04
1457	5919	" Ophiuchi	5.6	25 20	3.00	2 48 58.0	3.02	- .06
1458	5922	" λ Herculis	4.6	25 53	2.42	26 12 09.6	2.97	+ .07
1459	5927	" Herculis	5.7	26 23	2.28	31 14 55.3	2.93	+ .03
1460	5931	78 Herculis	5.6	27 07	2.36	28 29 44.4	2.87	+ .06
1461	5937	" β Draconis	2.9	17 27 43	+ 1.35	52 23 26.9	- 2.82	.00
1462*	..	" Herculis	5.3	28.1	2.61	19 21	2.78	...
1463*	..	" Ophiuchi	5.1	28.3	2.68	16 26	2.77	...
1464	5944	" Herculis	5.6	29 19	1.91	41 19 46.3	2.68	.00
1465	5941	" α Ophiuchi	2.0	29 22	2.78	12 38 56.1	2.68	- .20
1466	5950	" ν Draconis (pr.)	5.0	29 49	1.18	55 15 59.1	2.64	+ .03
1467	5951	" ν Draconis (sq.)	5.0	29 54	1.18	55 15 17.1	2.63	+ .01
1468*	..	" Herculis	5.8	30.9	2.56	21 05	2.54	...
1469	5962	" Herculis	5.8	32 03	2.28	30 51 37.9	2.44	+ .01
1470	5972	" f Draconis	5.4	32 27	- 0.25	68 12 39.7	2.40	+ .11
1471	5967	79 Herculis	5.8	17 32 35	+ 2.47	24 22 57.1	- 2.38	+ .01
1472	5975	" y Herculis	5.3	33 29	1.56	48 39 21.2	2.31	+ .03
1473	5978	26 Draconis	5.6	33 45	0.61	61 58 03.4	2.29	- .36
1474	..	" Ophiuchi	6.0	35.7	2.71	15 14 30.4	2.12	...
1475	5990	" ι Herculis	3.8	36 05	1.70	46 04 15.1	2.09	+ .01
1476	5991	" Ophiuchi	5.4	36 36	2.69	16 00 31.5	2.04	+ .07
1477	5999	83 Herculis	6.0	37 33	2.46	24 37 34.3	1.96	+ .05
1478	5996	" β Ophiuchi	3.1	37 33	2.96	4 37 08.0	1.96	+ .17
1479	6006	" ω Draconis	4.8	37 39	- 0.36	68 48 46.2	1.95	+ .29
1480*	..	" D. M. 14°, 3321	5.8	37.9	+ 2.73	14 21	1.93	...
1481*	..	" Draconis	5.8	17 38.6	+ 1.38	51 53	- 1.87	...
1482*	..	" Ophiuchi	5.8	38.8	2.73	14 28	1.85	...
1483*	..	" D. M. 72°, 800	5.8	39.4	- 1.16	72 31	1.80	...
1484*	..	" Draconis	5.5	41.6	+ 1.25	53 50	1.61	...
1485	6021	" μ Herculis	3.6	41 46	2.34	27 47 31.4	1.59	- .74
1486*	..	" Herculis	5.4	41.8	2.65	17 47	1.59	...
1487*	..	" Herculis	6.2	41.9	2.00	38 56	1.58	...
1488	6020	" γ Ophiuchi	3.7	41 52	3.00	2 45 13.7	1.58	- .07
1489*	..	" Herculis	6.1	42.0	1.98	39 22	1.57	...
1490*	..	" Herculis	5.6	43.3	2.57	20 36	1.46	...
1491	6030	" Herculis	6.0	17 43 36	+ 2.60	19 17 40.3	- 1.43	- .01
1492	6033	87 Herculis	5.4	43 57	2.43	25 39 54.9	1.40	+ .21
1493	6047	" ψ Draconis (pr.)	4.5	44 04	- 1.08	72 12 26.1	1.40	- .26
1494*	..	" Herculis	6.0	45.7	+ 2.32	29 22	1.25	...
1495	6052	30 Draconis	4.9	46 12	1.43	50 48 36.0	1.21	+ .19
1496*	..	" Ophiuchi	5.8	46.5	3.04	1 21	1.16	...
1497*	..	" Ophiuchi	6.0	47.4	2.93	6 07	1.10	...
1498	6068	" f Herculis	5.0	49 24	1.95	40 01 51.7	0.93	+ .04
1499	6069	" Ophiuchi	5.7	50 12	3.06	0 41 23.7	0.86	- .03
1500	6073	89 Herculis	5.6	50 35	2.42	26 04 13.3	0.82	+ .02

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No.	B.A.C.	Constellation.	Mag.	A.R. 1880.	Annual Variation.	Declination 1880.	Annual Precession.	Proper Motion.
1501*		Herculis	5.3	h. m. s. 17 50.8	s. + 2.52	° ' " . . . 22 28 . . .	" - 0.81	" ...
1502	6079	ξ Draconis	3.8	51 27	1.04	56 53 30.6	0.74	+ .06
1503	6082	θ Herculis	3.8	52 08	2.06	37 16 03.7	0.69	+ .05
1504	6084	ξ Herculis	4.0	53 06	2.33	29 15 41.7	0.60	- .02
1505	6091	γ Draconis	2.3	53 49	1.39	51 30 12.4	0.54	- .04
1506	6087	ν Herculis	4.6	53 55	2.30	30 12 00.4	0.53	.00
1507	6089	66 Ophiuchi	5.1	54 19	2.97	4 22 38.9	0.50	+ .01
1508*		Herculis	5.8	54.5	2.09	36 17 2... 2 56 18.9	0.48	...
1509	6092	67 Ophiuchi	4.0	54 38	3.00	2 56 18.9	0.47	- .03
1510	6094	93 Herculis	5.0	54 43	2.67	16 45 33.0	0.46	+ .03
1511	6114	35 Draconis	5.1	17 54 49	- 2.69	76 58 38.7	- 0.45	+ .24
1512	6101	68 Ophiuchi	4.5	55 40	+ 3.04	1 18 35.2	0.38	+ .02
1513*		Herculis	5.4	56.2	2.20	33 13 . . .	0.33	...
1514	6106	95 Herculis	4.5	56 25	2.54	21 35 52.5	0.32	+ .06
1515	6109	Herculis	5.5	56 31	1.72	45 30 27.2	0.31	- .06
1516*		D. M. 33°, 3009	5.8	57.2	2.19	33 30 . . .	0.25	...
1517	6110	96 Herculis	5.0	57 15	2.56	20 50 04.3	0.24	+ .01
1518	6122	34 Draconis	5.8	57 16	- 1.05	72 00 54.4	0.24	- .28
1519	6123	70 Ophiuchi	4.2	59 23	+ 3.03	2 31 45.7	- 0.05	- 1.09
1520	6134	98 Herculis	5.3	18 00 59	2.53	22 12 32.8	+ 0.09	+ .04
1521*		Herculis	5.8	18 01.4	+ 2.23	32 14 . . .	+ 0.12	...
1522	6142	71 Ophiuchi	4.9	01 34	2.87	8 43 10.9	0.14	+ .04
1523	6143	72 Ophiuchi	3.7	01 40	2.84	9 32 52.5	0.15	+ .06
1524	6147	b Herculis	4.9	02 28	2.28	30 32 44.5	0.21	+ .08
1525	6150	o Herculis	3.8	02 52	2.34	28 44 50.9	0.25	+ .02
1526	6151	100 Herculis	5.5	02 59	2.42	26 04 52.0	0.26	+ .07
1527	6157	102 Herculis	4.3	03 38	2.56	20 47 49.1	0.32	- .01
1528	6159	101 Herculis	5.1	03 42	2.58	20 01 38.9	0.32	- .04
1529*		Herculis	5.7	03.9	2.09	36 23 . . .	0.34	...
1530	6162	Herculis	4.8	03 52	1.80	43 26 53.0	0.34	.00
1531*		D. M. 3°, 3620	5.8	18 04.7	+ 3.00	3 18 . . .	+ 0.41	...
1532*		Herculis	6.0	04.8	2.68	16 27 . . .	0.42	...
1533*		Herculis	5.8	5.8	2.08	36 26 . . .	0.51	...
1534	6178	104 Herculis (A)	5.0	07 23	2.26	31 22 36.6	0.65	+ .09
1535	6185	Draconis	5.8	08 03	1.21	54 15 03.2	0.70	+ .25
1536		Lyræ	5.9	08 54	1.90	41 07 03.5	0.77	...
1537	6193	Lyræ	5.8	09 05	2.00	38 44 26.8	0.80	+ 0.79
1538	6281	δ Ursæ Minoris	4.4	11 03	- 19.43	86 36 32.8	0.97	+ .04
1539	6203	Lyræ	5.5	11 55	+ 1.86	42 07 05.7	1.04	.00
1540	6224	36 Draconis	5.0	13 12	0.34	64 21 23.2	1.16	+ .01
1541	6218	Lyræ	5.9	18 13 19	+ 1.92	40 53 22.7	+ 1.16	.00
1542	6213	Ophiuchi	5.7	13 22	2.90	7 12 43.0	1.17	.00
1543	6223	105 Herculis	5.5	14 14	2.47	24 23 50.0	1.24	.00
1544	6227	74 Ophiuchi	5.2	14 53	3.00	3 19 28.0	1.30	+ .01
1545	6231	106 Herculis	5.4	15 13	2.54	21 54 42.4	1.33	- .01
1546	6320	24 Ursæ Minoris	5.8	15 15	- 22.25	86 59 17.8	1.33	+ .01
1547	6235	κ Lyræ	4.6	15 40	+ 2.10	36 00 40.5	1.37	+ .03
1548	6243	37 Draconis	6.1	15 59	- 0.35	68 44 43.5	1.40	- .06
1549	6237	108 Herculis	5.4	16 20	+ 2.30	29 48 10.1	1.43	+ .04
1550	6238	t Herculis	4.7	16 20	2.34	28 48 50.6	1.43	+ .06

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No.	B.A.C.	Constellation.	Mag.	A. R. 1880.	Annual Variation.	Declination 1880.	Annual Precession.	Proper Motion.
1551*		Ophiuchi	5.8	h. m. s. 18 17 ..	s. + 2.79	° ' " . . . 11 59 . . .	" + 1.49	" ...
1552	6245	Herculis	5.4	17 31	2.64	17 46 01.8	1.53	...
1553	6255	Draconis	4.8	18 28	1.53	49 03 40.3	1.62	.00
1554	6251	109 Herculis	4.2	18 35	2.56	21 42 59.7	1.63	- .24
1555*		Ophiuchi	5.7	19.9	2.89	7 58 . . .	1.74	...
1556	6268	μ Lyræ	4.9	20 17	1.97	39 26 34.0	1.78	.00
1557	6269	d Serpentis	5.6	21 04	3.07	0 07 34.5	1.84	.00
1558	6289	b Draconis	4.9	22 09	0.87	58 43 53.8	1.93	+ .04
1559	6297	φ Draconis	4.3	22 29	- 0.85	71 16 24.7	1.96	+ .01
1560	6302	χ Draconis	3.7	23 13	- 1.07	72 40 48.7	2.02	- .38
1561	6300	Herculis	5.8	18 24 37	+ 2.50	23 47 15.6	+ 2.15	.00
1562	6316	42 Draconis	5.1	25 38	0.17	65 29 19.8	2.24	- .06
1563*		Herculis	5.4	25.7	2.67	16 51 . . .	2.24	...
1564	6322	Herculis	5.8	27 47	2.50	23 31 42.5	2.43	.00
1565*		Lyræ	5.4	28.3	2.29	30 28 . . .	2.47	...
1566	6348	d Draconis	4.9	30 30	1.04	56 57 14.9	2.66	- .02
1567	6341	Herculis	5.8	30 31	2.50	23 30 32.4	2.66	- .05
1568*		Ophiuchi	5.2	30.7	2.86	9 02 . . .	2.68	...
1569*		Ophiuchi	5.5	30.8	2.92	6 34 . . .	2.69	...
1570	6350	Draconis	5.3	31 13	1.36	52 15 31.5	2.72	.00
1571*		c Serpentis	5.6	18 31.4	+ 3.08	0 25 . . .	+ 2.74	...
1572*		Lyræ	5.7	32.2	2.20	33 22 . . .	2.81	...
1573	6355	a Lyræ	0.1	32 53	2.03	38 40 22.3	2.87	+ .28
1574		Lyræ	6.0 ²	33 05	1.83	43 07 15.2	2.87	...
1575		Draconis	5.8	35 51	0.19	65 22 50.5	3.12	...
1576		Draconis	5.6	36 29	0.54	62 25 01.0	3.18	...
1577	6372	Draconis	5.6	37 08	1.39	52 05 01.6	3.23	+ .03
1578	6379	4 Aquilæ	5.0	38 47	3.03	1 56 22.5	3.38	+ .02
1579*		Lyræ	5.6	39.4	2.25	31 49 . . .	3.43	...
1580	6395	c Draconis	5.1	40 18	1.16	55 25 05.0	3.51	.00
1581	6390	e Lyræ (bor.)	4.6	18 40 22	+ 1.99	39 32 43.7	+ 3.51	+ .07
1582	6391	e Lyræ (aus.)	4.6	40 22	1.99	39 29 17.8	3.51	+ .08
1583	6387	110 Herculis	4.2	40 30	2.59	20 25 56.9	3.52	- .35
1584	6392	ζ Lyræ (pr.)	4.5	40 38	2.06	37 28 50.2	3.53	+ .02
1585	6394	ζ Lyræ (sq.)	5.5	40 40	2.06	37 28 11.6	3.54	+ .02
1586		D. M. 53°, 2126	5.8	40 56	1.28	53 44 59.2	3.56	...
1587*		Lyræ	4.8	41.2	2.42	26 32 . . .	3.58	...
1588	6397	111 Herculis	4.1	41 43	2.65	18 02 56.9	3.63	- .12
1589	6404	Lyræ	5.9	42 23	1.92	41 18 48.6	3.69	.00
1590*		Draconis	6.0	42.5	1.21	54 46 . . .	3.70	...
1591	6410	Draconis	6.0	18 42 52	+ 0.71	60 55 15.2	+ 3.73	- .03
1592*		Lyræ	5.8	43.5	2.26	31 38 . . .	3.78	...
1593*		D. M. 24°, 3545	5.8	44.3	2.46	24 54 . . .	3.85	...
1594	6428	Draconis	5.9	45 06	1.58	48 37 49.4	3.92	.00
1595	6427	ν Lyræ	5.4	45 24	2.24	32 24 49.3	3.95	+ .01
1596	6429	β Lyræ	var. 3.6-4.4	45 39	2.21	33 13 27.4	3.96	- .01
1597*		Aquilæ	5.7	46.5	2.75	13 50 . . .	4.04	...
1598	6438	112 Herculis	5.2	47 09	2.56	21 16 55.5	4.10	+ .07
1599	6469	Draconis	5.5	48 45	1.46	73 56 46.0	4.23	+ .13
1600	6452	Draconis	5.6	48 54	+ 1.35	52 49 11.8	4.25	.00

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No.	B. A. C.	Constellation.	Mag.	A. R. 1880.	Annual Variation.	Declination 1880.	Annual Precession.	Proper Motion.
				h. m. s.	s	" ' "	"	"
1601	6463	o Draconis	4.5	18 49 26	+ 0.89	59 14 30.6	+ 4.29	+ .01
1602	6451	62 Serpentis	5.7	49 36	2.93	6 27 59.8	4.31	— .06
1603	6453	113 Herculis	4.6	49 41	2.54	22 29 38.6	4.31	+ .01
1604	6478	50 Draconis	5.6	50 14	— 1.91	75 17 28.6	4.36	+ .06
1605	6470	Draconis	5.1	50 15	+ 1.48	50 33 34.5	4.36	.00
1606	6460	♄ Serpentis (pr.)	4.4	50 15	2.98	4 02 56.2	4.36	+ .08
1607	6462	♄ Serpentis (sq.)	4.7	50 16	2.98	4 02 52.4	4.37	+ .12
1608	6466	♄ Lyrae	4.4	50 19	2.10	36 44 50.1	4.37	+ .04
1609*		Herculis	5.7	50.8	2.65	17 58	4.41	...
1610	6473	Lyrae	5.4	51 01	1.92	41 26 58.2	4.43	.00
1611	6471	64 Serpentis	5.7	51 15	+ 3.02	2 22 46.4	+ 4.45	+ .01
1612	6476	Draconis	5.6	51 37	1.59	48 42 35.9	4.48	— .12
1613	6475	R Lyrae	var. 4.3-4.6	51 41	1.82	43 47 17.4	4.49	.00
1614*		Aquilae	5.5	52.9	2.67	17 12	4.59	...
1615*		D. M. 19°, 3858	5.6	53.5	2.61	19 38	4.64	...
1616	6483	11 Aquilae	5.1	53 34	2.76	13 27 51.0	4.65	— .05
1617	6487	♄ Aquilae	4.1	54 10	2.72	14 54 22.6	4.69	— .10
1618	6491	γ Lyrae	3.2	54 27	2.25	32 31 34.0	4.72	+ .02
1619	6496	48 Draconis	5.7	54 43	1.02	57 39 21.9	4.74	— .07
1620*		Lyrae	5.7	54.9	2.44	26 04	4.76	...
1621	6497	λ Lyrae	5.6	55 29	+ 2.26	31 58 42.9	+ 4.81	+ .01
1622	6510	ν Draconis	5.1	55 52	— 0.71	71 08 11.6	4.84	+ .05
1623*		Draconis	5.6	56.0	+ 0.28	65 07	4.85	...
1624*		D. M. 20°, 4022	5.8	56.2	2.58	20 40	4.87	...
1625*		Draconis	4.9	57.2	1.51	50 22	4.95	...
1626*		Aquilae	5.8	57.5	3.04	1 38	4.98	...
1627*		D. M. 19°, 3888	5.8	57.7	2.61	19 29	5.00	...
1628	6520	16 Lyrae	4.9	58 03	1.71	46 45 56.3	5.02	— .06
1629	6522	49 Draconis	5.6	58 21	1.19	55 29 10.3	5.05	— .06
1630	6528	ζ Aquilae	3.0	59 54	2.75	13 41 11.5	5.18	— .09
1631	6534	Lyrae	5.8	19 00 23	+ 2.28	31 33 58.4	+ 5.22	.00
1632	6543	18 Aquilae	5.0	01 20	2.83	10 53 15.9	5.30	— .02
1633	6542	Vulpeculae	5.5	01 38	2.50	24 03 59.4	5.33	+ .22
1634*		Aquilae	5.3	01.6	2.69	16 41	5.33	...
1635	6547	Lyrae	5.5	01 52	2.39	28 26 25.1	5.35	— .05
1636	6551	51 Draconis	5.6	02 13	1.35	53 12 44.7	5.37	.00
1637	6553	17 Lyrae	5.5	02 53	2.27	32 18 48.2	5.43	+ .06
1638	6556	♄ Lyrae	5.1	03 01	2.14	35 54 46.8	5.44	+ .04
1639	6552	19 Aquilae	5.2	03 07	+ 2.94	5 53 09.3	5.45	— .04
1640*		D. M. 82°, 572	5.8	06.6	— 0.28	82 12	5.74	...
1641	6571	19 Lyrae	5.8	19 07 10	+ 2.30	31 05 03.4	+ 5.79	+ .06
1642	6574	Vulpeculae	5.8	07 28	2.57	21 21 12.2	5.82	.00
1643	6572	21 Aquilae	5.3	07 40	3.02	2 05 29.7	5.84	+ .06
1644*		Aquilae	5.8	07.8	2.95	5 18	5.85	...
1645	6583	53 Draconis	5.4	09 24	1.13	56 39 18.9	5.98	+ .05
1646	6581	η Lyrae	4.2	09 40	2.04	38 56 26.8	6.00	+ .05
1647*		D. M. 19°, 3956	5.8	09.8	2.61	20 01	6.01	...
1648	6582	1 Sagittae	5.8	10 07	2.58	21 01 24.4	6.04	+ .04
1649	6585	22 Aquilae	5.6	10 35	2.97	4 37 28.2	6.08	— .02
1650*		Lyrae	6.0	10.8	2.33	30 19	6.10	...

CATALOGUE OF STARS FOR OBSERVATIONS OF LATITUDE.

No.	B. A. C.	Constellation.	Mag.	A. R. 1880.	Annual Variation.	Declination 1880.	Annual Precession.	Proper Motion.
				h. m. s.	s	" ' "	"	"
1651*		Aquilae	5.6	19 11 ...	+ 2.75	14 20	+ 6.11	...
1652	6589	1 Vulpeculae	4.7	11 04	2.58	21 10 47.8	6.12	+ .06
1653	6601	54 Draconis	5.2	11 47	1.08	57 29 53.9	6.18	— .07
1654	6595	ω Aquilae	5.3	12 11	2.81	11 22 49.1	6.21	+ .02
1655	6599	♄ Lyrae	4.0	12 12	2.08	37 55 14.9	6.21	.00
1656	6597	23 Aquilae	5.1	12 26	3.05	0 52 04.8	6.23	— .04
1657	6612	♄ Draconis	3.0	12 31	0.03	67 27 01.0	6.24	+ .07
1658		D. M. 9°, 4057	5.8	13 09	2.86	9 24 07.8	6.30	...
1659	6625	59 Draconis	5.5	13 33	— 2.15	76 21 34.1	6.33	— .12
1660	6615	A Aquilae	5.5	14 03	+ 2.80	12 09 16.8	6.37	+ .07
1661	6623	κ Cygni	4.2	19 14 20	+ 1.38	53 08 51.2	+ 6.39	+ .09
1662	6618	d Aquilae	5.3	14 24	3.10	— 1 06 50.7	6.40	— .01
1663*		Aquilae	5.1	16.2	3.08	— 0 30	6.55	...
1664	6650	τ Draconis	4.5	17 51	— 1.11	73 07 55.8	6.68	+ .10
1665	6637	3 Vulpeculae	5.4	17 56	+ 2.46	26 02 00.1	6.69	+ .01
1666	6640	Draconis (pr.)	5.9	18 04	1.10	57 25 05.3	6.70	.00
1667	6642	2 Sagittae	5.8	18 59	2.69	16 42 19.8	6.78	+ .04
1668	6644	b Aquilae	5.2	19 15	2.86	11 41 20.7	6.79	+ .69
1669	6648	2 Cygni	5.2	19 24	2.37	29 23 16.3	6.81	+ .05
1670	6646	δ Aquilae	3.3	19 27	3.02	2 52 36.6	6.82	+ .10
1671	6662	π Draconis	4.8	19 20 03	+ 0.32	65 29 00.2	+ 6.86	+ .03
1672	6656	Lyrae	5.6	20 09	1.89	43 09 18.7	6.86	.00
1673	6654	4 Vulpeculae	4.9	20 13	2.63	19 33 53.9	6.87	— .03
1674	6653	ν Aquilae	4.9	20 23	3.07	0 06 01.2	6.89	— .02
1675*		Aquilae	5.8	20.8	2.79	12 48	6.91	...
1676	6667	4 Cygni	5.0	21 50	2.16	36 04 40.9	7.01	+ .05
1677*		Aquilae	5.8	22 ..	2.76	14 02	7.02	...
1678	6674	6 Vulpeculae	4.3	23 43	2.49	24 25 22.9	7.16	— .09
1679*		Aquilae	5.8	23.9	2.75	14 21	7.18	...
1680	6690	β Cygni	3.1	25 53	2.42	27 42 31.6	7.34	.00
1681	6697	ι Cygni	4.2	19 26 41	+ 1.51	51 28 28.0	+ 7.41	+ .13
1682	6698	8 Cygni	4.6	27 19	2.23	34 11 55.0	7.45	+ .04
1683		Cygni	5.8	28 09	1.59	50 03 00.0	7.53	...
1684	6701	μ Aquilae	4.7	28 14	2.93	7 07 32.1	7.53	— .14
1685	6709	9 Vulpeculae	5.3	29 19	2.63	19 30 45.6	7.54	+ .03
1686*		D. M. 15°, 3872	5.8	30 ..	2.73	15 21	7.67	...
1687	6714	9 Cygni	5.6	30 05	2.39	29 11 57.7	7.68	— .05
1688*		Cephei	5.8	30.2	— 7.34	83 14	7.69	...
1689	6715	ι Aquilae	4.3	30 31	+ 3.11	— 1 33 04.5	7.71	+ .01
1690	6718	Cygni	5.2	30 46	1.95	42 09 01.8	7.74	.00
1691*	6723	Cygni	5.8	19 31 14	+ 1.57	50 58 50.2	+ 7.77	— .10
1692	6722	11 Cygni	5.8	31 30	2.16	36 40 47.0	7.80	+ .04
1693	6724	ε Sagittae	5.5	31 51	2.72	16 11 40.8	7.83	+ .06
1694	6735	σ Draconis	4.9	32 35	— 0.11	69 27 23.9	7.88	— 1.79
1695	6731	Cygni	5.0	32 55	+ 1.87	44 25 51.9	7.91	.00
1696	6734	♄ Cygni	4.5	33 13	1.61	49 56 35.7	7.93	+ .15
1697	6729	σ Aquilae	4.9	33 16	2.96	5 07 32.3	7.94	+ .01
1698	6736	45 Aquilae	5.8	34 32	3.10	— 0 53 53.2	8.03	+ .02
1699	6740	φ Cygni	5.1	34 38	2.37	29 52 40.0	8.04	+ .06
1700	6739	α Sagittae	4.4	34 44	2.68	17 44 22.1	8.05	+ .03

REPORT OF THE SUPERINTENDENT OF
CATALOGUE OF STARS FOR OBSERVATIONS OF LATITUDE.

No.	B. A. C.	Constellation.	Mag.	A. R. 1880.	Annual Variation.	Declination 1880.	Annual Precession.	Proper Motion.
1701*		Aquilæ	5.7	h. m. s.	s.	° ' "	"	"
1702	6745	14 Cygni	5.2	19 35.5	+ 2.78	13 33	+ 8.12	...
1703	6744	β Sagittæ	4.4	35 32	1.95	42 32 31.4	8.12	+ .07
1704	6748	α Cygni	5.5	35 40	2.70	17 11 56.8	8.13	+ .02
1705	6749	α Aquilæ	5.5	35 59	1.35	54 41 30.3	8.16	.00
1706	6754	Cygni	5.0	36 55	2.82	11 32 44.2	8.23	+ .07
1707*		Cygni	5.8	37 07	1.84	45 14 26.9	8.23	.00
1708	6758	10 Vulpeculæ	5.7	38.1	2.31	32 09	8.32	...
1709	6759	ψ Aquilæ	6.0	38 44	2.50	25 29 07.9	8.37	- .01
1710	6769	D. M. 41°, 3469	5.4	38 59	2.80	13 00 57.3	8.40	- .01
1711	6767	ν Aquilæ	5.9	39 45	2.00	41 29 08.5	8.46	.01
1712	6771	15 Cygni	5.2	19 39 50	+ 2.92	7 19 24.5	+ 8.46	+ .03
1713	6772	γ Aquilæ	3.1	39 57	2.16	37 03 55.3	8.47	+ .08
1714	6779	δ Cygni	2.9	40 33	2.85	10 19 19.1	8.52	+ .00
1715	6784	17 Cygni	5.2	41 13	1.88	44 50 17.9	8.57	.00
1716	6783	δ Sagittæ	4.0	41 52	2.27	33 26 57.5	8.62	- .44
1717	6789	π Aquilæ	5.7	42 02	2.65	18 14 22.4	8.63	+ .05
1718	6794	ζ Sagittæ	5.1	43 03	2.83	11 31 06.5	8.71	+ .02
1719	6799	Cygni	5.9	43 39	2.67	18 50 32.7	8.76	+ .07
1720	6807	α Aquilæ	0.9	43 56	1.75	47 36 42.1	8.78	.00
1721		Aquilæ	5.4	44 56	2.93	8 33 09.0	8.86	+ .38
1722	6810	12 Vulpeculæ	5.3	19 45 17	+ 2.88	10 06 58.1	+ 8.89	- .16
1723*		χ Cygni	var. 4-13.	45 54	2.59	22 18 22.9	8.94	+ .05
1724	6813	19 Cygni	5.6	46 ..	2.31	32 37	8.95	...
1725	6811	η Aquilæ	var. 3.6-4.6	46 19	2.12	38 24 52.1	8.97	+ .12
1726	6817	Cygni	5.6	46 22	3.06	0 41 54.8	8.97	- .04
1727*		Vulpeculæ	5.4	46 30	2.06	40 17 42.9	8.99	.00
1728	6824	20 Cygni (d)	5.2	47 ..	2.53	24 41	9.03	...
1729*		Cygni	5.6	47 37	1.50	52 41 02.6	9.07	- .05
1730	6827	13 Vulpeculæ	4.7	48.4*	1.81	46 43	9.14	...
1731	6825	ξ Aquilæ	5.1	48 22	2.55	23 46 03.3	9.14	+ .08
1732	6836	ε Draconis	3.8	19 48 26	+ 2.91	8 09 07.7	+ 9.14	- .09
1733*	6830	Cygni	5.8	48 34	- 0.18	69 57 43.0	9.15	- .00
1734	6826	58 Aquilæ	5.6	48 35	+ 1.77	47 37 21.2	9.15	+ .00
1735	6833	β Aquilæ	4.0	48 36	3.07	0 02 21.2	9.15	- .10
1736	6835	Vulpeculæ	5.7	49 25	2.95	6 06 29.2	9.21	- .47
1737*		Cygni	5.8	49 26	2.55	24 00 21.2	9.21	- .01
1738	6838	φ Aquilæ	5.3	49 26	2.19	36 41	9.29	...
1739	6839	10 Sagittæ	5.3	50.4	2.19	36 41	9.29	...
1740	6	23 Cygni	5.3	50 33	2.85	11 06 23.0	9.31	+ .05
1741	685-	Cygni	5.7	50 34	2.73	16 19 06.5	9.31	+ .07
1742	6849	22 Cygni	5.3	50 50	1.93	57 12 33.4	9.32	.00
1743	6851	η Cygni	4.4	19 51 26	+ 1.07	59 23 28.4	+ 9.37	.00
1744	6853	11 Sagittæ	5.6	51 34	2.14	38 10 07.2	9.38	.00
1745	6856	ψ Cygni	5.3	51 48	2.25	34 45 54.6	9.40	- .04
1746	6857	Cygni	5.4	52 19	2.72	16 28 02.4	9.44	+ .11
1747	6858	γ Sagittæ	3.8	52 32	1.56	52 07 17.1	9.45	+ .02
1748	6867	Cygni	5.2	53 04	2.08	40 02 46.3	9.50	.00
1749*		Cygni	5.7	53 25	2.67	19 10 02.8	9.52	+ .08
1750	6866	14 Vulpeculæ	5.7	53 39	1.16	58 31 32.8	9.54	- .02
				53.9	2.38	30 39	9.56	...
				54 02	2.58	22 46 31.0	9.57	- .02

THE UNITED STATES COAST SURVEY.

CATALOGUE OF STARS FOR OBSERVATIONS OF LATITUDE.

No.	B. A. C.	Constellation.	Mag.	A. R. 1880.	Annual Variation.	Declination 1880.	Annual Precession.	Proper Motion.
1751	6868	13 Sagittæ	5.6	h. m. s.	s.	° ' "	"	"
1752	6875	25 Cygni	5.5	19 54 38	+ 2.71	17 11 23.0	+ 9.61	+ .06
1753	6876	Cygni	5.7	55 31	2.16	36 42 52.9	9.68	+ .08
1754	6879	15 Vulpeculæ	4.9	55 34	1.88	45 26 44.3	9.69	.00
1755	6883	16 Vulpeculæ	5.4	56 09	2.47	27 25 24.3	9.73	+ .08
1756	6895	e Cygni	5.0	56 56	2.55	24 36 10.9	9.79	+ .09
1757	6890	14 Sagittæ	5.1	57 58	1.70	49 46 16.9	9.87	- .01
1758	6893	τ Aquilæ	5.8	58 01	2.75	15 41 43.8	9.87	+ .04
1759*		Cygni	5.8	58 17	2.93	6 56 25.3	9.90	+ .01
1760	6897	15 Sagittæ	5.5	58.7	2.41	29 35	9.93	...
1761	6901	η Sagittæ	5.3	58 43	2.69	16 44 46.7	9.93	- .36
1762*		Cygni	5.8	19 59 50	+ 2.66	19 38 53.7	+ 10.01	+ .10
1763*		D. M. 15°, 4040	5.8	59.9	2.35	31 53	10.02	...
1764	6905	e Draconis	5.1	59.9	2.76	15 10	10.02	...
1765	6912	17 Vulpeculæ	5.1	20 00 12	0.65	64 29 05.8	10.04	- .02
1766	6915	b Cygni	5.6	01 44	2.58	23 16 10.4	10.16	.00
1767	6926	ρ Draconis	4.8	01 54	2.23	35 38 34.0	10.17	- .41
1768*		Aquilæ	5.8	02 16	0.29	67 31 52.4	10.20	+ .04
1769	6936	69 Draconis	6.1	02.9	2.86	10 22	10.24	...
1770	6928	Cygni	5.7	02 57	- 1.59	76 08 45.1	10.25	- .08
1771*		Cygni	6.0	03 03	+ 1.56	52 48 37.8	10.25	.00
1772	6932	66 Draconis	5.3	20 03.1	+ 2.30	34 04	+ 10.25	...
1773	6937	b² Cygni	5.3	03 38	0.96	61 38 50.0	10.30	+ .05
1774	6934	θ Aquilæ	3.2	04 58	2.22	36 29 16.0	10.40	+ .11
1775	6940	18 Vulpeculæ	5.5	05 07	3.10	1 10 35.0	10.41	.00
1776*		D. M. 21°, 4088	5.8	05 33	2.50	26 32 57.5	10.44	+ .04
1777	6943	19 Vulpeculæ	5.7	06.1	2.62	21 31	10 47	...
1778	6952	ρ Aquilæ	4.9	06 47	2.51	26 27 09.3	10.54	+ .05
1779	6957	21 Vulpeculæ	5.8	08 43	2.78	14 50 00.3	10.67	+ .08
1780	6962	α Cygni (pr.)	5.0	09 19	2.47	28 19 54.3	10.72	- .08
1781	6970	68 Draconis	5.6	09 32	1.89	46 27 11.7	10.74	+ .01
1782	6965	α¹ Cygni (sq.)	3.8	20 09 37	+ 0.99	61 42 54.7	+ 10.74	+ .06
1783	6967	b³ Cygni	5.1	09 51	1.89	46 22 42.0	10.76	+ .04
1784	6966	Vulpeculæ	5.0	10 02	2.45	36 26 22.3	10.78	+ .12
1785	6968	22 Vulpeculæ	5.4	10 11	2.54	25 13 35.0	10.79	...
1786	6976	33 Cygni	4.5	10 19	2.59	23 08 35.9	10.80	+ .03
1787	6973	23 Vulpeculæ	4.8	10 36	1.40	56 12 01.8	10.82	+ .04
1788	6975	18 Sagittæ	5.9	10 48	2.48	27 26 49.4	10.83	+ .01
1789	6980	D. M. 60°, 2099	5.8	11 03	2.64	21 13 54.6	10.85	.00
1790	6979	24 Vulpeculæ	5.6	11 16	1.13	60 16 24.2	10.87	+ .01
1791	6983	α² Cygni	3.9	11 39	2.57	24 18 08.2	10.89	+ .02
1792	6986	Cygni	5.1	20 11 46	+ 1.85	47 20 46.8	+ 10.90	+ .03
1793	7005	κ Cephei (1st *)	4.6	12 39	2.15	39 59 40.0	10.96	.00
1794	6990	P Cygni	var. 3-6	12 54	- 1.89	77 20 56.1	10.99	- .00
1795*		Delphini	5.6	13 22	+ 2.21	37 39 38.5	11.02	+ .03
1796	6998	35 Cygni	5.3	13.9	2.82	12 52	11.06	...
1797		Cygni	5.6	14 03	2.31	34 36 30.6	11.06	+ .02
1798	7014	115 Aquilæ	5.4	15 27	1.49	55 01 20.0	11.18	...
1799*		Delphini	5.7	17 14	2.98	4 57 39.9	11.30	...
1800	7024	71 Draconis	5.6	17.3	2.79	14 09	11.31	...
				17 36	1.01	61 52 35.3	11.33	+ .02

CATALOGUE OF STARS FOR OBSERVATIONS OF LATITUDE.

No.	B. A. C.	Constellation.	Mag.	A. R. 1880.	Annual Variation.	Declination 1880.	Annual Precession.	Proper Motion.
1801	7022	γ Cygni	2.4	h. m. s. 20 17 55	s. + 2.15	° ' " 39 52 24.6	" + 11.35	" + .02
1802*	...	Cygni	5.5	18 10	1.95	45 24 35.6	11.37	...
1803	7027	Cygni	5.6	18 30	2.13	40 38 36.1	11.39	.00
1804	7029	39 Cygni	4.9	19 04	2.40	31 48 13.7	11.43	+ .05
1805*	...	Cygni	5.6	19.3	2.24	37 05	11.45	...
1806*	...	D. M. 63°, 1618	5.7	19.5	0.96	63 37	11.47	...
1807	7037	Draconis	5.8	19 33	0.29	68 29 45.4	11.43	- .03
1808*	...	Vulpeculæ	5.6	20.4	2.65	21 01	11.53	...
1809	7061	40 Cygni	5.8	23 07	2.22	38 02 48.8	11.72	- .04
1810	7062	α Cygni	5.7	23 22	1.83	48 59 08.8	11.74	+ .04
1811	7067	41 Cygni	4.3	20 24 29	+ 2.45	29 58 08.5	+ 11.82	+ .01
1812	7065	ι Delphini	5.7	24 33	2.88	10 29 42.6	11.83	.00
1813	7085	ω Cygni (pr.)	5.1	26 21	1.56	48 32 56.4	11.95	+ .02
1814	7086	Cygni	5.8	26 27	1.50	55 39 57.0	11.96	...
1815*	...	Vulpeculæ	6.0	26.8	2.56	25 24	11.98	...
1816	7088	ϵ Delphini	4.1	27 29	2.87	10 53 47.1	12.03	- .03
1817	7098	θ Cephei	3.8	27 34	1.02	62 35 27.7	12.04	- .05
1818	7091	ω Cygni (sq.)	5.4	27 36	1.85	48 48 57.5	12.04	- .03
1819	...	D. M. 51°, 2882	5.8	27 55	1.71	51 54 02.3	12.06	.00
1820	7094	η Delphini	5.5	28 16	2.84	12 37 02.7	12.09	+ .08
1821	7103	47 Cygni	5.1	20 29 14	+ 2.34	34 50 25.2	+ 12.15	- .05
1822	7107	ζ Delphini	4.6	29 42	2.81	14 15 41.3	12.18	+ .04
1823	7112	Cygni	5.8	29 59	1.96	46 16 56.8	12.21	.00
1824	7121	β Delphini	3.8	31 55	2.81	14 10 44.0	12.34	- .01
1825	7126	27 Vulpeculæ	5.8	31 58	2.56	26 02 44.0	12.34	+ .02
1826	7125	ι Delphini	5.1	32 05	2.87	10 57 34.9	12.35	- .01
1827	7122	71 Aquilæ	4.6	32 08	3.10	- 1 31 21.4	12.35	+ .02
1828	...	Cygni	5.8	32 53	2.25	37 54 44.5	12.41	...
1829	7137	θ Delphini	5.5	33 04	2.83	12 53 40.9	12.42	- .01
1830	7156	73 Draconis	5.3	33 04	- 0.73	74 32 34.5	12.42	- .03
1831	7140	29 Vulpeculæ	4.7	20 33 10	+ 2.68	20 46 51.7	+ 12.43	+ .01
1832	7138	ι Aquarii	5.2	33 16	3.08	0 03 56.4	12.44	- .03
1833	7143	28 Vulpeculæ	5.2	33 18	2.61	23 41 45.5	12.43	+ .01
1834	7141	κ Delphini	5.2	33 18	2.92	9 39 52.9	12.44	+ .02
1835	7146	D. M. 15°, 4220	5.8	33 31	2.78	15 25 04.3	12.45	+ .02
1836*	...	Vulpeculæ	5.8	33.8	2.66	21 24	12.47	...
1837	7149	α Delphini	3.8	34 04	2.79	15 29 23.2	12.49	+ .03
1838	7158	Cygni	5.9	35 10	2.19	40 09 20.9	12.56	.00
1839	7160	10 Delphini	5.8	35 39	2.81	14 09 26.5	12.59	+ .03
1840	7178	75 Draconis	5.6	35 42	- 3.50	81 00 37.9	12.60	.00
1841*	...	Cygni	5.7	20 35.8	+ 2.10	43 02	+ 12.61	...
1842	7164	49 Cygni	5.6	36 11	2.43	31 52 53.2	12.63	+ .03
1843	7171	α Cygni	1.5	37 20	2.04	44 51 07.6	12.71	.00
1844	7174	Cygni	5.5	37 36	2.16	41 17 15.9	12.73	.00
1845	7173	δ Delphini	4.2	37 51	2.80	14 38 41.8	12.75	- .02
1846	7182	51 Cygni	5.6	38 31	1.86	49 54 33.5	12.79	- .04
1847	7188	30 Vulpeculæ	5.4	39 41	2.60	24 50 31.8	12.87	- .17
1848	7194	52 Cygni	4.4	40 43	2.48	30 16 56.2	12.93	+ .01
1849	7200	γ Delphini	4.2	41 05	2.78	15 41 34.6	12.90	- .15
1850*	...	Cephei	6.0	41.1	1.56	56 03	12.96	...

CATALOGUE OF STARS FOR OBSERVATIONS OF LATITUDE.

No.	B. A. C.	Constellation.	Mag.	A. R. 1880.	Annual Variation.	Declination 1880.	Annual Precession.	Proper Motion.
1851	7204	ϵ Cygni	2.8	h. m. s. 20 41 22	s. + 2.42	° ' " 33 31 17.3	" + 12.98	" + .32
1852	7211	4 Cephei	5.4	41 40	0.76	66 13 15.3	13.00	- .01
1853	7206	13 Delphini	5.5	41 52	2.98	5 34 07.1	13.02	...
1854	7215	Cephei	4.7	42 22	1.49	57 08 58.7	13.05	- .19
1855	...	T Cygni	var. 5-6	42 23	2.39	33 56 01.8	13.05	...
1856	7213	λ Cygni	4.6	42 44	2.33	36 03 01.8	13.07	+ .02
1857	7220	η Cephei	3.6	42 51	1.23	61 22 23.7	13.08	+ .87
1858*	...	Cygni	5.5	43.9	1.98	47 23	13.15	...
1859	7223	15 Delphini	5.6	43 55	2.86	12 05 52.5	13.15	+ .30
1860	7222	14 Delphini	5.7	43 55	2.94	7 25 12.8	13.15	+ .05
1861	...	Cygni	6.0	20 44 17	+ 1.78	51 58 16.2	+ 13.18	...
1862	7233	55 Cygni	4.9	44 51	2.04	45 40 10.8	13.21	+ .01
1863*	...	Cygni	6.0	45.1	1.81	51 28	13.23	...
1864	7241	56 Cygni	5.0	45 49	2.13	43 36 28.3	13.27	+ .13
1865*	...	Delphini	6.0	47.0	2.76	17 34	13.35	...
1866	7246	31 Vulpeculæ	4.9	47 00	2.57	26 38 55.8	13.35	- .01
1867	7253	57 Cygni	4.9	49 00	2.12	43 56 00.8	13.48	.00
1868*	...	Cygni	6.0	49.0	2.43	32 59	13.48	...
1869	7256	32 Vulpeculæ	5.2	49 27	2.55	27 36 07.0	13.51	.00
1870	7255	Equulei	5.5	49 40	3.01	4 04 31.4	13.53	- .06
1871	7257	16 Delphini	5.4	20 49 55	+ 2.87	12 06 40.5	+ 13.54	+ .05
1872	7258	17 Delphini	5.3	49 56	2.84	13 15 52.9	13.54	+ .04
1873	7291	76 Draconis	5.8	51 11	- 3.99	82 05 08.3	13.62	- .03
1874	7268	Cygni	5.7	51 47	+ 2.02	46 57 29.9	13.66	+ .04
1875	7278	Cygni	5.6	52 36	1.90	50 16 05.2	13.71	.00
1876	7271	18 Delphini	5.3	52 39	2.89	10 22 36.2	13.71	- .10
1877	7277	ν Cygni	4.1	52 42	2.24	40 42 21.9	13.72	+ .01
1878	7275	33 Vulpeculæ	5.2	52 54	2.69	21 51 47.2	13.73	+ .08
1879	7299	Draconis	5.5	52 59	2.52	80 06 05.8	13.74	.00
1880	7281	D. M. 56°, 2515	5.8	53 04	1.60	56 25 32.8	13.74	- .04
1881	7276	ι Equulei (1st *)	5.2	20 53 05	+ 3.00	3 50 03.5	+ 13.75	- .14
1882	7290	Cygni	5.4	54 02	2.15	44 00 15.7	13.80	.00
1883	7294	Cygni	5.5	54 39	1.92	49 59 45.7	13.84	- .10
1884*	...	Delphini	5.7	55.0	2.74	18 52	13.87	...
1885	7301	ϵ Cygni	5.3	55 45	2.03	47 03 10.8	13.91	- .01
1886	7311	Cephei	5.8	56 08	- 0.63	75 27 39.8	13.94	+ .05
1887	7310	Cephei	5.6	56 28	+ 1.47	58 58 11.0	13.96	- .05
1888	7306	60 Cygni	5.4	57 00	2.09	45 41 05.2	13.99	- .03
1889	7320	Cygni	6.0	58 26	2.32	38 11 00.9	14.08	- .02
1890	7318	3 Equulei	5.6	58 36	2.99	5 01 36.3	14.09	- .05
1891	...	Cephei	5.7	20 58 51	+ 1.65	56 11 45.7	+ 14.11	...
1892	7332	Cygni	5.6	21 00 08	1.83	52 48 29.4	14.19	.00
1893	7333	ξ Cygni	4.0	00 34	2.18	43 26 59.6	14.22	+ .02
1894	7336	61 Cygni (pr.)	5.3	01 31	2.67	38 09 36.2	14.27	+ 3.22
1895	7337	61 Cygni (sq.)	5.6	01 33	2.68	38 09 26.0	14.27	+ 3.00
1896*	...	149 Cygni	5.6	01.5	2.51	30 42	14.27	...
1897	7345	ϵ^2 Cygni	4.4	02 28	2.06	47 10 01.0	14.33	+ .01
1898	7350	γ Equulei	4.4	04 30	2.92	9 38 56.2	14.46	- .18
1899	7363	Cephei	5.8	05 40	0.40	70 57 06.4	14.53	.00
1900	7365	Cygni	5.6	06 33	1.86	53 04 22.9	14.58	- .06

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				h. m. s.	s.	" "	" "	" "
1901	7368	γ Cygni	3.4	21 07 50	+ 2.55	29 44 07.5	+ 14.65	— .07
1902	7372	δ Equulei	4.6	08 38	2.93	9 31 17.9	14.70	— .28
1903	7377	23 Cephei	5.8	08 45	1.52	59 29 35.6	14.71	— .04
1904	7380	α Equulei	4.2	09 49	3.00	4 45 10.0	14.77	— .09
1905	7385	τ Cygni	3.9	10 00	2.39	37 32 03.2	14.78	+ .47
1906	7398	σ Cygni	4.3	12 42	2.35	38 53 32.4	14.94	— .01
1907	7399	ν Cygni	4.4	12 59	2.46	34 23 38.3	14.96	+ .02
1908*		D. M. 53°, 2588	5.6	13.3	1.88	53 30	14.98	...
1909	7401	D. M. 55°, 2519	5.8	13 39	1.80	55 17 37.2	15.00	— .11
1910	7402	Α Cygni	5.2	13 59	2.23	43 26 29.7	15.02	.00
1911*		Pegasi	5.8	21 14.8	+ 2.72	21 32	+ 15.07	...
1912	7405	9 Equulei	5.7	15 09	2.97	6 50 49.0	15.07	+ .01
1913	7411	Cygni	5.7	15 21	2.06	49 00 11.0	15.06	.00
1914	7410	Pegasi	5.7	15 38	2.69	23 21 05.8	15.11	.00
1915	7416	α Cephei	2.5	15 43	1.43	62 04 37.7	15.12	+ .01
1916	7417	Cephei	5.6	15 56	1.66	58 06 58.4	15.13	...
1917*		Cygni	5.8	16.3	2.52	32 06	15.15	...
1918	7418	ι Pegasi	4.3	16 32	2.78	19 17 31.6	15.16	+ .09
1919	7428	6 Cephei	5.2	16 53	1.25	64 21 48.2	15.18	.00
1920	7421	β Equulei	5.0	16 56	2.98	6 18 00.0	15.18	+ .05
1921	7438	Cephei	5.8	21 17 01	— 0.50	76 30 22.6	+ 15.19	+ .02
1922	7431	Cygni	5.8	17 50	+ 2.08	48 52 29.3	15.24	.00
1923	7437	Pegasi	5.7	18 34	2.70	23 45 35.7	15.28	+ .06
1924		Cygni (sq.)	6.5	18 57	2.42	36 50 14.7	15.30	...
1925	7444	Vulpeculæ	5.3	19 14	2.65	25 39 29.7	15.32	— .11
1926	7455	Cygni	5.8	20 53	2.18	46 11 42.6	15.41	+ .05
1927	7453	69 Cygni	5.8	20 53	2.45	36 08 58.7	15.41	+ .01
1928	7461	35 Vulpeculæ	5.3	22 23	2.65	27 05 13.7	15.50	+ .07
1929	7462	70 Cygni	5.0	22 28	2.45	36 35 44.7	15.50	— .02
1930*		Cygni	5.4	22.6	2.12	48 19	15.51	...
1931	7468	Cygni	5.7	21 22 48	+ 1.97	52 22 39.8	+ 15.52	— .01
1932	7465	Cygni	5.7	23 01	2.56	31 42 03.4	15.53	+ .09
1933*		Pegasi	5.6	23.5	2.74	21 40	15.56	...
1934	7474	2 Pegasi	4.6	24 31	2.72	23 06 49.8	15.61	+ .02
1935	7480	g Cygni	5.3	25 01	2.20	46 00 42.7	15 64	+ .11
1936*		Pegasi	5.8	25.3	2.90	11 37	15.66	...
1937	7482	7 Cephei	5.4	25 27	1.17	66 17 08.5	15.66	— .04
1938	7493	β Cephei	3.2	27 06	0.80	70 02 01.1	15.75	— .04
1939	7495	Cephei	5.5	27 42	1.65	59 55 50.0	15.79	.00
1940	7510	Cephei	6.0	28 20	— 1.57	80 00 04.7	15.82	— .02
1941*		Cygni	6.0	21 28.7	+ 2.11	49 25	+ 15.84	...
1942	7503	ρ Cygni	4.1	29 28	2.25	45 03 43.5	15.88	— .05
1943	7505	72 Cygni	5.1	29 53	2.45	37 59 48.8	15.90	+ .12
1944	7521	74 Cygni	5.1	32 08	2.40	39 52 30.1	16.02	+ .01
1945	7520	5 Pegasi	5.5	32 09	2.81	18 46 47.0	16.02	+ .09
1946	7528	Pegasi	5.8	33 25	2.78	19 43 28.3	16.09	.00
1947	7527	d Aquarii	5.2	33 28	3.05	1 42 17.7	16.09	— .02
1948	7542	9 Cephei	5.1	34 42	1.61	61 32 28.0	16.16	+ .02
1949	7544	75 Cygni	5.1	35 29	2.35	42 43 46.2	16.20	+ .03
1950	7546	26 Aquarii	5.7	36 03	3.07	0 44 21.2	16.23	— .02

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				h. m. s.	s.	" "	" "	" "
1951	7547	7 Pegasi	5.4	21 36 15	+ 3.01	5 08 02.5	+ 16.24	— .05
1952	7555	D. M. 54°, 2595	5.8	36 45	1.98	54 19 36.0	16.26	.00
1953	7559	77 Cygni	5.8	37 33	2.41	40 31 46.6	16.30	— .02
1954	7560	π Cygni	4.9	37 50	2.12	50 38 32.3	16.31	— .01
1955	7565	Cygni	5.4	38 17	2.40	49 36 25.5	16.34	+ .02
1956	7561	ε Pegasi	2.7	38 18	2.95	9 19 32.5	16.34	.00
1957	7566	79 Cygni	5.6	38 28	2.47	37 44 05.8	16.35	.00
1958	7568	μ Cygni (1st *)	4.6	38 47	2.67	28 12 04.5	16.37	— .26
1959	7567	9 Pegasi	4.1	38 50	2.85	16 48 02.6	16.37	+ .06
1960	7571	κ Pegasi	4.2	39 13	2.72	25 05 38.8	16.39	+ .03
1961	7582	μ Cephei	var. 4.5-6.4	21 39 50	+ 1.83	58 13 48.2	+ 16.42	+ .01
1962	7588	11 Cephei	4.9	40 10	0.90	70 45 31.6	16.43	+ .07
1963	7585	12 Pegasi	5.1	40 33	2.76	22 23 47.3	16.45	+ .05
1964	7587	11 Pegasi	5.4	41 09	3.05	2 07 55.7	16.49	+ .08
1965	7590	D. M. 16°, 4598	5.8	41 22	2.86	16 38 24.4	16.49	...
1966	7597	Cephei	5.4	41 36	0.75	71 46 12.8	16.51	— .02
1967	7595	ν Cephei	4.6	41 59	1.73	60 34 01.9	16.53	— .03
1968	7598	π Cygni	4.4	42 22	2.21	48 45 16.4	16.54	— .01
1969	7605	12 Cephei	5.8	43 53	1.77	60 08 09 0	16.62	— .03
1970	7606	13 Pegasi	5.3	44 26	2.86	16 43 42.7	16.64	— .01
1971	7607	14 Pegasi	5.1	21 44 32	+ 2.65	29 36 58.3	+ 16.65	— .01
1972		Pegasi	5.6	45 56	2.81	19 15 52.4	...	...
1973	7623	15 Pegasi	5.9	47 09	2.67	28 13 57.9	16.78	— .04
1974	7627	16 Pegasi	5.4	47 36	2.73	25 21 39.6	16.79	— .01
1975	7631	Cygni	5.8	47 57	2.02	55 13 58.3	16.82	— .06
1976*		Pegasi	5.5	48.0	2.82	19 06	16.82	...
1977*		D. M. 20°, 5046	5.6	50.8	2.80	20 42	16.95	...
1978	7641	17 Pegasi	5.5	51 06	2.93	11 30 27.6	16.96	+ .04
1979	7658	Cephei	5.5	53 17	1.70	63 03 15.2	17.06	— .02
1980	7659	18 Pegasi	5.6	54 08	3.00	6 08 34.6	17.11	+ .04
1981	7660	28 Aquarii	5.6	21 54 57	+ 3.07	0 01 45.0	+ 17.14	— .05
1982	7662	19 Pegasi	5.6	55 12	2.68	7 40 52.7	17.15	+ .01
1983	7664	20 Pegasi	5.8	55 14	2.92	12 32 46.0	17.15	.00
1984	7676	Cygni	5.5	57 27	2.19	52 18 14.5	17.26	.00
1985	7686	16 Cephei	5.1	57 32	0.88	72 36 30.9	17.27	— .19
1986	7681	Lacertæ	5.8	58 06	2.41	44 04 19.0	17.29	.00
1987	7685	32 Aquarii	5.6	58 37	3.09	— 1 29 09.2	17.30	— .03
1988	7688	α Aquarii	3.7	59 37	3.03	— 0 54 08.2	17.35	— .00
1989	7689	ν Pegasi	4.9	59 38	3.03	4 28 22.1	17.35	+ .09
1990	7693	23 Pegasi	5.6	22 00 09	2.71	28 22 54.4	17.37	+ .04
1991	7699	18 Cephei	5.7	22 00 17	+ 1.78	62 32 08.6	+ 17.38	...
1992	7700	5 Cephei (2d *)	4.5	00 19	1.74	64 02 36.6	17.38	+ .08
1993	7705	Lacertæ	5.3	01 10	2.40	44 25 49.8	17.42	— .10
1994	7707	20 Cephei	5.7	01 22	1.82	62 12 00.8	17.42	+ .04
1995	7706	ι Pegasi	4.0	01 25	2.79	24 45 34.5	17.43	+ .02
1996	7708	19 Cephei	5.6	01 28	1.87	61 41 46.3	17.43	— .02
1997	7712	25 Pegasi	5.6	02 12	2.82	21 07 09.7	17.46	— .01
1998	7721	π Pegasi (pr.)	5.5	03 55	2.65	32 35 13.3	17.53	— .03
1999	7723	θ Pegasi	3.7	04 09	3.03	5 36 29.6	17.55	+ .05
2000	7731	π Pegasi (sq.)	4.1	04 39	2.66	32 35 24.5	17.56	+ .03

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2001*		Pegasi	6.0	h. m. s. 22 04.8	s. + 2.95	" " " 11 02	" + 17.57	" ...
2002	7733	28 Pegasi	5.8	04 50	2.83	20 23 19.8	17.57	.00
2003	7746	Lacertæ	5.5	06 30	2.31	50 13 50.3	17.64	.00
2004	7749	ζ Cephei	3.6	06 41	2.07	57 36 35.5	17.65	-.01
2005	7755	2 Cephei	5.4	07 26	2.03	58 49 21.3	17.68	-.04
2006	7754	Cephei	5.8	07 29	2.15	56 14 35.1	17.69	+ .16
2007	7753	Pegasi	5.5	07 29	2.66	34 00 47.6	17.69	-.10
2008	7758	24 Cephei	5.0	07 30	1.16	71 44 59.8	17.69	-.03
2009	7760	Cephei	5.7	07 54	1.39	69 32 24.4	17.70	+ .08
2010	7759	Cephei	5.5	08 04	1.98	60 09 56.0	17.71	...
2011	7765	Lacertæ	4.8	22 08 44	+ 2.58	39 07 07.8	+ 17.74	-.16
2012		Lacertæ	5.8	08 53	2.45	44 50 44.5	17.74	...
2013	7770	Lacertæ	5.8	09 41	2.51	42 21 33.8	17.77	.00
2014	7778	ε Cephei	4.7	10 37	2.20	56 26 29.8	17.81	+ .02
2015	7777	1 Lacertæ	4.6	10 44	2.61	37 09 06.4	17.81	+ .02
2016	7789	25 Cephei	6.1	14 17	1.94	62 12 10.5	17.96	.00
2017	7796	31 Pegasi	5.1	15 37	2.95	11 36 04.2	18.01	+ .04
2018	7798	32 Pegasi	4.8	15 47	2.76	27 43 36.2	18.02	+ .01
2019	7800	2 Lacertæ	4.8	16 04	2.47	45 55 57.9	18.03	+ .02
2020	7807	33 Pegasi	6.1	17 53	2.89	20 14 32.2	18.10	-.02
2021	7815	3 Lacertæ	4.7	22 18 51	+ 2.35	51 37 41.0	+ 18.13	-.21
2022	7814	π Aquarii	4.5	19 09	3.06	0 46 08.3	18.14	-.01
2023	7820	4 Lacertæ	4.9	19 39	2.42	48 52 05.6	18.16	-.02
2024	7823	34 Pegasi	5.8	20 31	3.06	3 46 54.6	18.19	+ .05
2025	7827	35 Pegasi	5.1	21 47	3.04	4 05 41.4	18.24	-.29
2026*		Lacertæ	5.8	22.2	2.62	39 12	18.25	...
2027	7851	Cephei	5.0	22 33	- 2.90	85 30 10.9	18.27	+ .04
2028*		Cephei	5.6	22.7	+ 1.55	70 09	18.27	...
2029	7832	ζ Aquarii	3.9	22 39	3.09	0 38 00.2	18.27	+ .03
2030	7833	36 Pegasi	5.7	23 09	3.00	8 31 00.8	18.29	-.01
2031	7837	26 Cephei	5.7	22 23 14	+ 1.92	64 31 12.8	+ 18.29	-.04
2032*		Pegasi	5.5	23.5	2.80	26 09	18.30	...
2033	7845	5 Lacertæ	4.5	24 32	2.50	47 05 35.3	18.34	+ .01
2034	7843	38 Pegasi	5.4	24 33	2.74	31 57 33.5	18.34	+ .11
2035	7848	δ Cephei	var. 3.8-4.7	24 43	2.21	57 48 04.1	18.34	-.02
2036	7850	6 Lacertæ	4.9	25 18	2.57	42 30 31.5	18.37	.00
2037	7857	28 Cephei	5.9	25 47	0.52	78 10 26.4	18.38	-.06
2038	7855	7 Lacertæ	4.0	26 21	2.46	49 39 56.1	18.40	-.01
2039	7874	ρ Cephei	5.9	28 48	0.59	78 12 30.1	18.48	-.03
2040	7868	η Aquarii	4.0	29 11	3.08	0 41 07.8	18.50	-.06
2041	7876	Cephei	6.0	22 29 34	+ 1.73	69 17 34.6	+ 18.51	+ .23
2042	7881	Cephei	5.4	30 10	1.11	75 36 28.5	18.53	-.01
2043	7880	8 Lacertæ (2d *)	5.3	30 32	2.66	39 00 48.9	18.54	-.02
2044	7888	9 Lacertæ	5.3	32 27	2.44	59 55 34.7	18.61	-.08
2045	7896	31 Cephei	5.3	32 49	1.49	73 01 13.5	18.62	+ .04
2046	7893	40 Pegasi	5.8	33 04	2.90	18 54 07.0	18.63	-.07
2047	7901	10 Lacertæ	4.6	33 53	2.68	38 25 34.2	18.65	+ .02
2048		Cephei	5.8	33 55	2.34	56 10 21.8	18.65	...
2049*		Lacertæ	5.8	34.2	2.70	36 58	18.66	...
2050	7902	30 Cephei	5.3	34 24	2.11	62 57 38.9	18.67	-.02

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2051		Pegasi	5.7	h. m. s. 22 34 55	s. + 2.95	" " " 13 55 02.7	" + 18.69	" ...
2052	7906	11 Lacertæ	4.6	35 15	2.62	43 39 01.0	18.70	.00
2053		Lacertæ	5.8	35 26	2.42	53 13 14.7	18.70	...
2054	7908	ζ Pegasi	3.5	35 29	2.99	10 12 19.8	18.71	.00
2055	7915	12 Lacertæ	5.4	36 06	2.68	39 35 55.9	18.72	-.01
2056	7914	o Pegasi	4.6	36 08	2.81	28 40 54.4	18.72	-.01
2057	7923	η Pegasi	3.1	37 22	2.81	29 35 39.2	18.76	-.01
2058		D. M. 53°, 2960	5.8	37 26	2.44	53 16 51.7	18.76	...
2059	7932	13 Lacertæ	5.3	38 45	2.67	41 11 24.0	18.80	+ .02
2060	7943	ξ Pegasi	4.6	40 42	2.99	11 33 28.9	18.86	-.49
2061	7945	2 Pegasi	3.9	22 40 45	+ 2.88	22 56 04.9	+ 18.87	+ .02
2062	7948	Lacertæ	6.0	40 50	2.63	43 54 49.1	18.87	.00
2063		D. M. 36°, 4934	5.8	42 41	2.74	36 47 09.7	18.92	...
2064		Lacertæ	6.0	43 49	2.47	53 46 51.0	18.95	...
2065		Cephei	6.0	44 13	2.24	62 18 21.4	18.97	.00
2066	7958	μ Pegasi	3.8	44 13	2.88	23 58 06.3	18.97	-.04
2067	7961	D. M. 55°, 2820	5.7	44 49	2.45	55 15 58.3	18.98	.00
2068	7967	ι Cephei	3.6	45 25	2.12	65 34 09.6	19.00	-.14
2069	7971	σ Pegasi	4.9	46 19	3.05	9 11 51.8	19.02	+ .06
2070	7972	15 Lacertæ	5.1	46 37	2.69	42 40 29.4	19.03	.00
2071	7973	Cephei	5.8	22 46 41	+ 2.31	61 03 32.8	+ 19.04	+ .07
2072	7975	Pegasi	5.4	47 08	2.95	16 12 18.2	19.05	-.01
2073	7990	Cephei	4.9	47 54	- 0.07	82 31 01.7	19.07	+ .07
2074	7983	Lacertæ	6.0	48 18	+ 2.67	44 06 41.5	19.08	.00
2075	7984	Lacertæ	5.7	48 36	2.73	39 44 14.4	19.09	.00
2076	7988	ρ Pegasi	4.8	49 11	3.02	8 10 35.9	19.10	+ .05
2077*		Lacertæ	5.7	49.5	2.77	36 27	19.11	...
2078*		Lacertæ	5.8	50.09	2.78	35 42 39.8	19.13	...
2079	7995	Lacertæ	5.1	51 10	2.61	49 05 35.3	19.13	.00
2080	7997	51 Pegasi	5.3	51 34	2.95	20 07 33.2	19.14	+ .07
2081	7999	Lacertæ	5.4	22 51 46	+ 2.63	48 02 36.1	+ 19.17	.00
2082	8005	2 Piscium	5.8	53 18	3.08	0 19 20.3	19.21	-.12
2083*		D. M. 51°, 3514	5.8	53 59	2.59	52 00 37.3	19.23	.00
2084*		D. M. 30°, 4859	5.8	55.0	2.85	30 27	19.25	...
2085*		D. M. 56°, 2923	5.8	55.1	2.51	56 18	19.25	...
2086	8026	Cephei	5.0	55 19	- 0.23	83 42 14.7	19.26	+ .05
2087	8023	o Andromedæ	3.8	56 24	+ 2.75	41 40 54.4	19.28	+ .03
2088*		D. M. 22°, 4762	5.8	56.5	2.92	22 40	19.29	...
2089	8031	β Piscium	4.6	57 46	3.05	3 10 26.9	19.32	-.02
2090	8032	β Pegasi	var. 2.5-2.8	57 57	2.90	27 25 56.3	19.32	+ .15
2091	8034	α Pegasi	2.4	22 58 47	+ 2.99	14 33 36.5	+ 19.34	-.02
2092	8036	3 Andromedæ	4.7	58 48	2.68	49 23 59.1	19.34	+ .12
2093	8039	Cephei	5.3	58 59	2.26	66 33 45.0	19.35	+ .04
2094	8051	55 Pegasi	5.0	23 00 58	3.03	8 45 42.9	19.39	+ .01
2095	8052	56 Pegasi	5.1	01 16	2.92	24 49 15.5	19.40	-.03
2096	8054	1 Cassiopeæ	5.0	01 33	2.52	58 46 17.0	19.40	-.01
2097		D. M. 52°, 3371	5.4	01 51	2.63	52 10 02.4	19.41	...
2098	8058	4 Andromedæ	5.4	02 10	2.73	45 44 22.0	19.42	-.03
2099	8059	5 Andromedæ	5.7	02 19	2.71	48 38 32.2	19.42	+ .13
2100	8060	A Piscium	5.6	02 32	3.07	1 28 29.6	19.42	+ .10

REPORT OF THE SUPERINTENDENT OF
CATALOGUE OF STARS FOR OBSERVATIONS OF LATITUDE.

No.	B. A. C.	Constellation.	Mag.	A. R. 1880.	Annual Variation.	Declination 1880.	Annual Precession.	Proper Motion.
				h. m. s.	s.	" ' "	"	"
2101	8070	57 Pegasi	5.3	23 03 28	+ 3.03	8 01 37.3	+ 19.45	+ .01
2102	8071	58 Pegasi	5.3	03 59	3.02	9 10 19.4	19.46	+ .04
2103	8074	π Cephei	4.6	04 05	1.89	74 44 19.2	19.46	- .04
2104	..	Pegasi	5.7	04 45	2.97	16 56 42.1	19.47	...
2105	8076	6 Andromedæ	6.0	04 55	2.76	42 54 00.7	19.48	- .14
2106	8078	59 Pegasi	5.4	05 41	3.03	8 04 08.0	19.49	+ .01
2107	8082	7 Andromedæ	4.8	07 03	2.73	48 45 02.9	19.52	+ .08
2108	8083	Cassiopeæ	5.8	07 30	2.86	56 30 20.8	19.53	+ .28
2109	8105	γ Piscium	3.9	10 57	3.11	2 37 35.8	19.60	- .01
2110	8106	Cephei	5.6	11 00	2.28	70 14 01.0	19.60	- .01
2111	8107	Andromedæ	5.5	23 11 14	+ 2.70	52 33 58.6	+ 19.60	- .28
2112	8114	8 Andromedæ	4.9	12 14	2.76	48 21 35.4	19.62	.00
2113	8124	α Cephei	5.1	13 42	2.44	67 27 17.5	19.64	- .02
2114	8125	11 Andromedæ	5.5	13 55	2.78	47 58 01.1	19.65	+ .03
2115	8128	10 Andromedæ	5.9	14 10	2.85	41 25 18.4	19.65	+ .05
2116	8127	β Piscium	5.4	14 14	3.06	4 43 35.6	19.65	- .04
2117	8131	τ Pegasi	4.8	14 42	2.96	23 05 01.5	19.66	- .01
2118	8136	12 Andromedæ	5.8	15 06	2.89	37 31 39.5	19.67	- .05
2119	8138	Cassiopeæ	5.8	15 20	2.59	61 33 24.2	19.67	+ .04
2120	8141	64 Pegasi	5.7	16 04	2.92	31 09 18.7	19.68	+ .02
2121	8149	66 Pegasi	5.3	23 17 01	+ 3.02	11 39 24.6	+ 19.70	+ .03
2122	8153	Cassiopeæ (sq.)	6.1	17 12	2.65	59 28 32.6	19.70	+ .01
2123	8159	67 Pegasi	5.8	18 58	2.93	31 43 33.9	19.73	.00
2124	8160	ν Pegasi	4.5	19 23	2.99	22 44 37.9	19.74	+ .07
2125	8162	4 Cassiopeæ	5.3	19 31	2.64	61 37 27.4	19.74	+ .02
2126	8169	κ Piscium	5.3	20 47	3.08	0 35 55.0	19.76	- .12
2127	8177	θ Piscium	4.6	21 53	3.04	5 43 13.0	19.78	- .03
2128	8182	70 Pegasi	4.8	23 05	3.03	12 05 55.6	19.79	+ .06
2129	8188	Cassiopeæ	5.5	24 30	2.76	57 53 15.5	19.81	+ .02
2130	8195	14 Andromedæ	5.6	25 23	2.94	38 34 38.2	19.82	- .05
2131*	..	Pegasi	6.0	23 25.5	+ 2.96	28 00	+ 19.82	...
2132	8203	71 Pegasi	5.6	27 28	3.00	21 50 13.0	19.85	- .02
2133*	..	Pegasi	5.8	27.9	3.00	20 11	19.85	...
2134	8213	• Cephei	6.0	27 50	- 0.04	86 38 43.4	19.85	.00
2135	8206	72 Pegasi	5.1	28 00	+ 2.96	30 37 46.8	19.86	- .02
2136	8211	73 Pegasi	5.9	28 42	2.96	32 50 02.3	19.86	+ .06
2137	8212	15 Andromedæ	5.8	28 45	2.92	39 34 30.5	19.86	- .03
2138	8217	Cephei	6.0	29 46	2.56	70 58 44.0	19.88	+ .01
2139	8224	λ Andromedæ	3.9	31 42	2.92	45 48 29.3	19.90	- .39
2140	8227	75 Pegasi	5.5	31 53	3.02	17 44 10.2	19.90	+ .07
2141	8229	ι Andromedæ	4.4	23 32 15	+ 2.92	42 36 14.1	+ 19.91	+ .02
2142	8231	18 Andromedæ	5.5	33 20	2.89	49 48 25.4	19.92	- .02
2143	8234	Pegasi	5.8	33 49	3.06	9 00 46.2	19.92	- .03
2144	8233	ι Piscium	4.3	33 47	3.08	4 58 32.7	19.92	- .45
2145	..	Cephei	5.8	34 08	2.56	73 20 15.2	19.93	.00
2146	8238	γ Cephei	3.5	34 26	2.40	76 57 45.5	19.93	+ .15
2147	8237	κ Andromedæ	4.4	34 30	2.93	43 40 12.0	19.93	+ .02
2148*	..	Andromedæ	6.0	34.7	2.96	36 03	19.93	...
2149	8243	λ Piscium	4.7	35 55	3.06	1 07 10.0	19.94	- .17
2150	..	D. M. 63°, 2038	5.8	36 41	2.78	63 51 00.2	19.95	...

THE UNITED STATES COAST SURVEY.

CATALOGUE OF STARS FOR OBSERVATIONS OF LATITUDE.

No.	B. A. C.	Constellation.	Mag.	A. R. 1880.	Annual Variation.	Declination 1880.	Annual Precession.	Proper Motion.
				h. m. s.	s.	" ' "	"	"
2151	8250	77 Pegasi	5.1	23 37 16	+ 3.05	9 39 55.8	+ 19.95	.00
2152	8256	78 Pegasi	5.0	37 57	3.01	28 41 50.1	19.96	+ .01
2153	8261	ψ Andromedæ	5.1	40 05	2.95	45 45 14.8	19.98	- .01
2154*	..	Cassiopeæ	6.0	41.2	2.90	56 47	19.98	...
2155	8268	τ Cassiopeæ	5.1	41 12	2.90	57 59 01.2	19.98	+ .06
2156	8273	Cephei	5.3	42 11	2.83	67 08 24.5	19.99	- .01
2157	8279	6 Cassiopeæ	5.8	43 00	2.88	61 32 53.0	20.00	+ .04
2158*	..	Andromedæ	5.7	43.6	3.00	35 46	20.00	...
2159	8296	Pegasi	5.5	46 18	3.04	21 00 14.1	20.02	+ .02
2160	8299	φ Pegasi	5.2	46 23	3.04	18 27 14.9	20.02	+ .01
2161	8300	82 Pegasi	5.7	23 46 30	+ 3.06	10 16 46.4	+ 20.02	- .04
2162	8310	ρ Cassiopeæ	4.7	48 24	2.96	56 49 55.6	20.03	- .01
2163*	..	D. M. 46°, 4214	5.7	49 30	3.00	46 41 17.5	20.03	...
2164*	..	Pegasi	5.8	50.6	3.05	21 59	20.04	...
2165	8321	Cephei	6.0	50 51	2.68	82 31 21.3	20.04	- .04
2166	..	Andromedæ	5.8	50 59	3.02	41 59 25.6	20.04	...
2167	8322	Cassiopeæ	5.8	51 06	3.00	55 02 16.9	20.04	- .05
2168	8324	ψ Pegasi	4.4	51 39	3.05	24 28 28.9	20.04	- .01
2169	8330	σ Cassiopeæ	4.8	52 55	3.01	55 05 13.5	20.04	- .02
2170	8331	ω Piscium	4.2	53 09	3.08	6 11 55.9	20.04	- .13
2171*	..	Andromedæ	5.7	23 53.4	+ 3.05	33 04	+ 20.04	...
2172*	..	D. M. 44°, 4538	5.8	54.6	3.03	44 35	20.05	...
2173	8344	Cassiopeæ	6.0	55 30	3.02	60 33 16.2	20.05	- .01
2174*	..	D. M. 16°, 5034	5.8	57.1	3.07	16 52	20.05	...
2175	8359	9 Cassiopeæ	5.5	58 03	3.05	61 37 10.8	20.05	+ .02
2176	..	D. M. 41°, 4923	6.4	58 27	3.06	41 25 31.0	20.05	...
2177	..	Cephei	5.8	58 28	3.04	66 29 49.8	20.05	...
2178	8366	Cassiopeæ	5.8	58 54	3.06	60 38 43.7	20.05	...
2179	8370	86 Pegasi	5.5	59 32	3.07	12 43 43.2	20.05	+ .04

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