CANADA
DEPARTMENT OF MINES AND TECHNICAL SURVEYS
DOMINION OBSERVATORIES

PUBLICATIONS

OF THE

Dominion Observatory

OTTAWA

VOL. XV No. 3

Results of Observations made with the Reversible Meridian Circle 1935-1950

Catalogue of 1525 Stars

Corrections to G.C. and FK3

BY

W. S. McClenahan, E. G. Woolsey and R. W. Tanner

EDMOND CLOUTIER, C.M.G., O.A., D.S.P.
QUEEN'S PRINTER AND CONTROLLER OF STATIONERY
OTTAWA, 1954

PUBLICATIONS OF THE DOMINION OBSERVATORY
VOL. XV No. 3

Results of Observations made with the Reversible Meridian Circle 1935-1950

Catalogue of 1525 Stars

Corrections to G.C. and FK3

BY

W. S. McClenahan, E. G. Woolsey and R. W. Tanner

ABSTRACT

This catalogue contains the results of observations made at Ottawa with the Reversible Meridian Circle during the period May 1935 to June 1950 inclusive. The program consists of 1525 stars selected from the Backlund-Hough list, given in the supplement to the Connaissance des Temps of 1914; the right ascensions are based on the Third Fundamental Catalogue (FK3) of the Berliner Jahrbuch as defined by 180 selected clock stars, and declinations in a fundamental system based only on polars at upper and lower culmination. Corrections for Variation in Latitude were computed from values given by the International Latitude Service and refraction is based on Bessel's Tabulæ Regiomontanæ. Screens were used to reduce star magnitudes, and a reversing prism was used with the eye-piece throughout the work. The observing clock was the slave of a Shortt Free Pendulum, and transits were recorded on a printing chronograph.

Comparisons with G.C. and FK3 are given for 3-hour intervals, as well as the observed corrections to G.C. and FK3 for each star at the epoch of observation.

INTRODUCTION

This part of the volume contains results of observations made at Ottawa during the period from May 1935 to June 1950, and was originally to have been included in the catalogue of 1589 stars, Publications of the Dominion Observatory, Volume XV, No. 2, but owing to retirements and assignments of observers to other duties this half of the computations was not completed in the same manner as the first.

A description of the Meridian Circle is referred to in the introduction to Volume XV, No. 1. For this program the object glass and eye end were interchanged from the position used in the two previous catalogues, Volume XV, No. 1 and No. 2. The instrument has a travelling wire micrometer, 4 microscopes were used to read circle divisions and a reversing prism was used on all observations. The same screens were used to reduce magnitudes of all stars to the sixth magnitude. Transits were recorded on a printing chronograph with the slave of a Shortt Free Pendulum being used as the observing clock.

Up to the time of the first issue of "Apparent Places of Fundamental Stars", 1941, containing the 1535 stars in the Third Fundamental Catalogue (FK3), the right ascensions were based on Eichelberger positions of the 180 clock stars and the Ottawa positions of the pole stars using proper motions as given by Eichelberger. The new FK3 Catalogue did not contain all the 180 clock stars nor all the 21 circumpolar stars. Six clock stars and 10 azimuth stars were replaced. Since that time the right ascensions have been based on the FK3 positions of the clock stars and circumpolars.

92726—1½

The work was carried out under the supervision of C. C. Smith until his retirement in December 1937; under D. B. Nugent until his retirement in January 1945; and finally under W. S. McClenahan. The following is a list of the observers who took part in this program;

C. C. Smith.....from May 1935 to October 1936.
W. S. McClenahan.....from May 1935 to December 1937.
R. J. McDiarmid.....from May 1935 to August 1945.
A. H. Swinburn.....from May 1935 to October 1947.
E. G. Woolsey.....from January 1946 to June 1950.
R. W. Tanner.....from June 1948 to June 1950.
R. A. Jenkins.....from May 1949 to June 1950.

E. C. Arbogast took a major part in the declination computations, and besides the observers Miss K. C. Nevins and D. B. Nugent took part in the computing.

The observations were carried out in the same manner as that described in the first part of this program except that observations of the sun and planets were discontinued in 1937. It was felt that these observations were insufficient in number to justify their inclusion so they have been omitted.

Methods for the determination of constants in this program are the same as that described in the previous catalogues, Publications of the Dominion Observatory, Volume XV, No. 1 and No. 2.

A complete check was carried out as the computing of the observations progressed, and in order to avoid serious errors the results, reduced to 1950 epoch, were then tabulated for each star. This enabled a further check to be made and large differences were re-examined. Any observation that differed from the mean position determined for that star by more than $0^s.1$ sec δ in right ascension or by 2″ of arc in declination has been discarded.

An examination of the residuals of the first star in each half hour of right ascension taken in two bands of declination, −5° to +5°, and +40° to +50°, gave the following probable errors:—

−5° to +5°	R.A. $\pm^s.022$ or ± 0″.33;	Dec. ± 0″.46
40° to 50°	R.A. $\pm^s.028$ or ± 0″.29;	Dec. ± 0″.38

The writers wish to thank Professor Gino Cecchini of the International Latitude Service for his kindness in supplying the Variation in Latitude prior to publication.

Right Ascensions.

The apparent places of the clock and azimuth stars were computed from the "Apparent Places of Fundamental Stars" (FK3). Prior to 1941 the positions were calculated from the American Ephemeris, the Connaissance des Temps and other ephemerides. In order to have a uniform system, corrections were applied to each night's work from 1935 to 1941. By investigation it was found that no correction in azimuth was needed and the corrections applied were the mean differences between Eichelberger and the FK3 positions of the clock stars observed on any one night.

Observations of the right ascensions were retained:

(a) For clock stars, if at least 6 clock stars and 2 azimuth stars, 1 at upper and 1 at lower culmination, were distributed over a period of at least 3 hours.

(b) For azimuth stars if at least 6 clock stars and 4 azimuth stars, 2 at upper and 2 at lower culmination, or 2 azimuth stars, 1 at upper and 1 at lower culmination were observed and readings on both azimuth marks.

(c) For program stars, if at least 6 clock stars and 1 azimuth star were observed.

TABLE I—CLOCK STARS

Clock Star	BD Number	Mag.	Decl.	Right Ascension 1950 Ottawa Ledgers	0-FK3	Clock Star	BD Number	Mag.	Decl.	Right Ascension 1950 Ottawa Ledgers	0-FK3
	°		° ′	h m s	s		°		° ′	h m s	s
F 1	+14 14	2·87	+14 54	0 10 39·437	−0·010	F 49	− 4 1526	4·98	− 4 44	6 25 29·355	+ ·007
F 2	− 9 48	3·75	− 9 6	16 52·778	− ·005	F 50	+16 1223	1·93	+16 27	34 49·406	+ ·004
F 3	− 4 54	6·05	− 4 14	27 29·156	− ·009	F 51	+13 1396	3·40	+12 57	42 28·963	− ·002
F *3	− 4 62	5·24	− 3 52	32 40·380	—	F 52	−11 1681	4·25	−11 58	51 51·949	− ·008
F 4	+ 6 107	4·55	+ 7 19	46 5·105	− ·005	F 53	+20 1687	3·7-4·1	+20 39	7 1 8·595	− ·031
F 5	− 1 114	4·92	− 1 25	50 27·031	− ·011	F 54	−15 1625	4·07	−15 33	1 29·745	+ ·014
F 6	+ 7 153	4·45	+ 7 37	1 0 20·686	− ·013	F 55	− 0 1636	4·09	− 0 25	9 18·605	− ·015
F 7	−10 240	3·60	−10 27	6 4·418	− ·007	F 56	+16 1443	3·65	+16 38	15 13·216	+ ·022
F 8	+ 2 185	5·28	+ 3 21	15 13·010	·000	F 57	+ 8 1774	3·09	+ 8 23	24 26·345	− ·009
F 9	− 8 244	3·83	− 8 26	21 31·366	− ·001	F 58	+12 1567	4·85	+12 7	27 0·841	+ ·022
F 10	+14 231	3·72	+15 5	28 48·219	+ ·026	F 59	− 3 1979	5·17	− 4 0	34 47·504	+ ·017
F 11	+ 4 293	4·68	+ 5 14	38 49·574	+ ·021	F 60	+ 5 1739	0·48	+ 5 21	— ———	—
F 12	+ 8 273	4·50	+ 8 54	42 44·932	− ·039	F 61	+ 2 1808	5·11	+ 1 54	49 6·376	− ·015
F 13	−11 359	3·92	−10 35	48 59·454	+ ·008	F *61	−13 2267	5·34	−13 46	— ———	—
F 14	+ 2 290	4·84	+ 2 56	50 57·832	− ·006	F 62	− 5 2339	6·30	− 6 12	59 58·548	− ·012
F 15	+20 306	2·72	+20 34	51 52·323	− ·016	F *62	+13 1831	5·11	+13 16	8 2 17·542	—
F 16	+ 8 345	4·54	+ 8 37	2 10 20·762	+ ·015	F 63	+ 9 1917	3·76	+ 9 20	13 48·298	+ ·026
F 17	+19 340	5·69	+19 40	15 20·327	+ ·002	F 64	− 3 2339	3·95	− 3 45	23 9·725	+ ·005
F 18	+ 7 388	4·34	+ 8 14	25 29·803	+ ·014	F 65	+ 6 2001	4·18	+ 5 53	35 0·588	− ·001
F 19	− 0 406	4·04	+ 0 7	36 54·999	+ ·014	F 66	+18 2027	4·17	+18 20	41 50·730	− ·010
F 20	+ 9 359	4·36	+ 9 54	42 14·107	+ ·008	F 67	+ 6 2060	3·30	+ 6 8	52 45·107	+ ·019
F 21	− 9 553	4·05	− 9 6	53 58·987	+ ·027	F 68	+12 1948	4·27	+12 3	55 45·234	− ·011
F 22	+ 3 419	2·82	+ 3 54	59 39·761	+ ·010	F 69	+11 1984	5·14	+10 52	9 5 2·428	+ ·023
F 23	+19 477	4·53	+19 32	3 8 45·897	+ ·013	F 70	+ 2 2167	3·84	+ 2 32	11 45·806	− ·014
F 24	+ 8 511	3·80	+ 8 51	22 7·140	+ ·015	F 71	− 8 2680	2·16	− 8 26	25 7·802	+ ·007
F 25	+12 486	4·28	+12 46	28 6·486	− ·026	F 72	− 0 2231	4·10	− 0 55	37 18·148	− ·004
F 26	− 9 697	3·81	− 9 38	30 34·388	+ ·030	F 73	+10 2044	3·76	+10 7	38 29·016	+ ·010
F 27	−10 728	3·72	− 9 56	40 51·025	− ·024	F 74	+ 8 2301	4·89	+ 8 17	57 34·346	+ ·015
F 28	−13 781	3·19	−13 39	55 41·635	− ·051	F 75	+17 2171	3·58	+17 0	10 4 36·547	+ ·025
F 29	+12 539	3·8-4·1	+12 21	57 54·405	+ ·021	F 76	+12 2149	1·34	+12 13	— ———	—
F 30	+ 5 581	3·94	+ 5 51	4 0 29·584	·000	F 77	+11 2820	3·83	−12 6	8 8·949	− ·006
F 31	− 7 764	4·14	− 6 58	9 25·338	− ·009	F 78	− 7 3001	5·40	− 7 49	15 8·683	+ ·023
F 32	+15 612	3·86	+15 31	16 56·670	+ ·013	F 79	−16 3052	4·06	−16 35	23 40·225	+ ·007
F 33	+17 712	3·93	+17 26	— ———	—	F 80	+10 2166	3·85	+ 9 34	30 10·773	+ ·010
F 34	+18 640	3·63	+19 4	25 41·610	+ ·022	F 81	+11 2283	5·27	+10 49	46 37·806	+ ·011
F 35	+16 629	1·06	+16 25	33 2·885	− ·019	F 82	+ 4 2407	5·05	+ 3 53	57 58·704	+ ·006
F 36	− 3 876	4·18	− 3 21	43 0·012	+ ·015	F 83	+ 8 2455	4·66	+ 7 36	11 2 26·294	·000
F 37	+ 2 810	3·87	+ 2 22	51 38·666	+ ·007	F 84	+16 2234	3·41	+15 42	11 37·073	+ ·011
F 38	− 5 1162	2·92	− 5 9	5 5 23·365	− ·010	F 85	−13 3345	3·82	−14 30	16 50·308	+ ·010
F 39	− 8 1063	0·34	− 8 15	12 7·992	− ·010	F 86	+ 6 2437	4·13	+ 6 18	18 33·491	+ ·004
F 40	− 7 1028	3·68	− 6 54	15 10·598	− ·009	F 87	− 0 2458	4·47	− 0 33	34 23·263	+ ·008
F 41	+ 6 919	1·70	+ 6 18	22 26·810	− ·028	F 88	+15 2383	2·23	+14 51	46 36·609	+ ·001
F 42	− 0 983	2·48	− 0 20	29 27·039	+ ·016	F 89	+ 2 2489	3·80	+ 2 3	48 5·379	− ·006
F 43	− 1 969	1·75	− 1 14	33 40·466	− ·014	F 90	+ 7 2502	4·57	+ 6 54	58 18·619	+ ·006
F 44	− 9 1235	2·20	− 9 41	— ———	—	F 91	+ 9 2583	4·24	+ 9 1	12 2 39·708	·000
F 45	+ 7 1055	0·1-1·2	+ 7 24	52 27·815	− ·007	F 92	+ 0 2926	4·00	− 0 23	17 20·734	− ·028
F 46	+14 1152	4·40	+14 47	6 4 42·954	+ ·001	F 93	−15 3482	3·11	−16 14	27 16·386	+ ·001
F*47	− 6 1469	4·09	− 6 15	12	—	F 94	+19 2584	5·18	+18 39	32 37·298	− ·012
F 47	+12 1084	5·11	+12 17	13 38·066	− ·029	F 95	− 7 3452	4·78	− 7 43	36 39·744	− ·006
F 48	+ 4 1236	4·48	+ 4 37	21 7·050	− ·010	F 96	+ 4 2669	3·66	+ 3 40	53 4·970	− ·015

TABLE I—CLOCK STARS—*Concluded*

Clock Star	BD Number	Mag.	Decl.	Right Ascension 1950 Ottawa Ledgers	0-FK3	Clock Star	BD Number	Mag.	Decl.	Right Ascension 1950 Ottawa Ledgers	0-FK3
	°		° ′	h m s	s		°		° ′	h m s	s
F 97	+11 2529	2·95	+11 14	12 59 41·192	−0·021	F 141	− 5 4876	3·55	− 4 58	19 3 35·680	+ ·001
F 98	− 4 3430	4·46	− 5 16	13 7 21·471	− ·002	F 142	+11 3790	5·14	+11 30	15 28·117	+ ·023
F 99	+ 6 2722	5·01	+ 5 44	15 4·685	·000	F 143	+ 2 3879	3·44	+ 3 01	22 58·612	+ ·020
F 100	−10 3672	1·21	−10 54	22 33·292	− ·018	F 144	− 7 5006	5·04	− 7 8	34 12·065	− ·006
F 101	+ 0 3076	3·44	− 0 20	32 8·570	+ ·009	F 145	+10 4043	2·80	+10 29	43 52·893	− ·010
F 102	+18 2782	4·51	+17 42	44 53·110	+ ·002	F 146	+18 4240	3·78	+18 25	19 45 9·416	− ·005
F 103	+19 2725	2·80	+18 39	52 18·190	+ ·014	F 147	+ 8 4236	0·89	+ 8 44	48 20·584	+ ·001
F 104	+ 2 2761	4·34	+ 1 47	59 5·930	− ·013	F 148	+ 6 4357	3·90	+ 6 17	52 51·382	+ ·006
F 105	− 9 3878	4·31	−10 3	14 10 13·459	+ ·006	F 149	+19 4229	3·71	+19 21	56 31·924	·000
F 106	+19 2777	0·24	+19 27	13 22·752	− ·010	F 150	− 1 3911	3·37	− 0 58	20 8 43·496	+ ·007
F 107	−12 4018	4·60	−13 9	16 23·966	− ·003	F 151	−12 5685	3·77	−12 42	15 16·867	− ·008
F 108	− 1 2957	4·99	− 2 0	25 37·355	− ·015	F 152	−15 5629	3·25	−14 56	18 12·172	− ·023
F 109	− 5 3936	3·95	− 5 27	40 25·287	+ ·002	F 153	+10 4321	3·98	+11 8	30 49·398	+ ·006
F 110	+ 2 2862	3·76	+ 2 6	43 43·068	− ·024	F* 154	+14 4369	3·72	+14 25	35 12·171	—
F 111	−15 3966	2·90	−15 50	48 6·452	+ ·004	F 154	+20 4658	4·78	+21 1	36 17·247	+ ·019
F 112	− 7 3938	4·8-5·9	− 8 19	58 17·818	+ ·010	F 155	+15 4222	3·86	+15 44	37 18·822	− ·044
F 113	− 8 3935	2·74	− 9 12	15 14 18·736	+ ·006	F 156	−10 5506	3·83	− 9 41	44 58·225	+ ·014
F 114	−14 4237	4·02	−14 37	32 43·482	+ ·009	F 157	− 9 5598	4·80	− 9 10	49 57·455	− ·015
F 115	+ 6 3088	2·75	+ 6 35	41 48·162	+ ·004	F 158	−11 5538	4·52	−11 35	21 6 52·301	·000
F 116	+15 2911	3·74	+15 35	43 52·665	− ·012	F 159	+ 4 4635	4·14	+ 5 2	13 19·437	+ ·001
F 117	− 2 4052	3·63	− 3 17	47 0·442	− ·013	F 160	+19 4691	4·27	+19 35	19 46·341	− ·006
F 118	+ 4 3069	3·75	+ 4 38	48 19·293	+ ·044	F 161	− 6 5770	3·07	− 5 48	28 55·643	− ·004
F 119	+16 2849	3·86	+15 49	54 8·446	− ·022	F 162	− 8 5701	4·78	− 8 5	35 5·449	− ·002
F 120	− 3 3903	3·03	− 3 34	16 11 43·321	− ·008	F 163	+ 9 4891	2·54	+ 9 39	41 43·758	+ ·005
F 121	− 4 4086	3·34	− 4 34	15 40·368	+ ·019	F 164	−16 5943	2·98	−16 21	44 16·966	− ·023
F 122	+19 3086	3·79	+19 16	19 42·727	− ·006	F 165	−14 6149	5·18	−13 47	50 34·282	− ·018
F 123	+21 2934	2·81	+21 36	28 4·106	+ ·002	F 166	− 1 4246	3·19	− 0 34	22 3 12·929	− ·016
F 124	−10 4350	2·70	−10 28	34 24·128	− ·010	F 167	+ 5 4961	3·70	+ 5 57	7 40·601	+ ·007
F 125	+ 9 3298	3·42	+ 9 27	55 17·971	+ ·009	F 168	− 8 5845	4·32	− 8 2	14 11·790	+ ·026
F 126	−10 4445	5·58	−10 28	17 7 1·890	− ·038	F 169	− 2 5741	3·97	− 1 38	19 4·430	+ ·009
F* 126	−15 4467	2·63	−15 40	7 30·437	—	F 170	−11 5850	4·89	−10 56	28 0·118	− ·005
F 127	+ 4 3422	4·44	+ 4 11	24 1·902	+ ·013	F 171	− 0 4384	4·13	− 0 23	32 47·190	− ·020
F 128	+12 3252	2·14	+12 36	32 36·688	− ·012	F 172	+10 4797	3·61	+10 34	38 57·994	− ·006
F 129	+ 4 3489	2·94	+ 4 35	41 0·050	+ ·008	F 173	− 8 5968	3·84	− 7 51	50 0·384	+ ·005
F 130	+ 2 3403	3·74	+ 2 43	45 23·037	+ ·012	F 174	+14 4926	2·57	+14 56	23 2 16·067	+ ·004
F 131	− 9 4632	3·50	− 9 46	56 16·352	+ ·021	F 175	− 6 6170	4·40	− 6 19	11 43·984	+ ·012
F 132	+ 2 3458	3·95	+ 2 56	58 8·398	+ ·060	F 176	+ 2 4648	3·85	+ 3 1	14 34·323	− ·008
F 133	+ 9 3564	3·73	+ 9 33	18 4 58·647	− ·012	F 177	+ 0 4998	4·94	+ 0 59	24 22·085	+ ·003
F 134	− 2 4599	3·42	− 2 55	18 43·262	+ ·003	F 178	+ 4 5035	4·28	+ 5 21	37 22·604	+ ·005
F 135	−14 5071	4·73	−14 36	26 20·793	− ·006	F 179	+18 5231	5·23	+18 51	49 56·423	− ·004
F 136	− 8 4638	4·06	− 8 17	32 29·113	+ ·010	F 180	+ 6 5227	4·03	+ 6 35	56 44·489	− ·006
F 137	− 9 4796	4·74	− 9 6	39 32·100	− ·003						
F 138	− 4 4582	4·47	− 4 48	44 31·250	+ ·022						
F 139	+ 4 3916	4·50	+ 4 08	53 43·982	+ ·007						
F 140	+14 3736	4·21	+15 0	57 21·111	·000						

Table I gives a list of the clock stars used. Those marked * are the clock stars that were replaced in 1941. Table II gives a comparison by hours of Right Ascension between the Ottawa observed positions and the FK3 positions. No corrections for clock star positions have been applied so this publication is affected by the periodic errors in right ascension introduced through the mean places of the FK3.

TABLE II—CLOCK STARS $\Delta\alpha$ (OTTAWA −FK3)

	s		s		s
0^h to 1^h	$-\cdot008_5$	8^h to 9^h	$+\cdot005_6$	16^h to 17^h	$+\cdot001_6$
1^h to 2^h	$-\cdot002_9$	9^h to 10^h	$+\cdot006_6$	17^h to 18^h	$+\cdot009_7$
2^h to 3^h	$+\cdot013_7$	10^h to 11^h	$+\cdot011_7$	18^h to 19^h	$+\cdot003_8$
3^h to 4^h	$-\cdot003_7$	11^h to 12^h	$+\cdot004_8$	19^h to 20^h	$+\cdot003_9$
4^h to 5^h	$+\cdot004_7$	12^h to 13^h	$-\cdot012_7$	20^h to 21^h	$-\cdot005_8$
5^h to 6^h	$-\cdot009_7$	13^h to 14^h	$-\cdot001_7$	21^h to 22^h	$-\cdot006_8$
6^h to 7^h	$-\cdot005_7$	14^h to 15^h	$-\cdot004_8$	22^h to 23^h	000_8
7^h to 8^h	$-\cdot001_9$	15^h to 16^h	$+\cdot002_7$	23^h to 24^h	$+\cdot001_7$

TABLE III—POLAR STARS AS ADOPTED FOR DETERMINATIONS OF AZIMUTH

BD Number		R.A. 1950			Decl. 1950			Observed −Adopted
		h	m	s	°	′	″	s
+85°	19	1	1	30·817	85	59	24·26	− ·112
+88°	8		48	48·609	89	1	43·72	−1·005
+82°	51	2	8	52·017	83	19	44·63	− ·305
+84°	59**	3	20	6·364	84	44	23·51	− ·183
+86°	51*		51	16·364	86	29	19·20	+ ·013
+85°	63	4	19	53·711	85	25	3·31	− ·036
+85°	74**	5	13	50·080	85	53	40·38	− ·076
+85°	80		45	34·322	85	10	27·38	− ·001
+87°	51	7	17	50·671	87	7	34·52	− ·322
+82°	201*		20	40·973	82	30	50·46	+ ·004
+84°	169**	8	5	13·720	84	12	30·89	− ·021
+89°	13*		45	54·169	88	46	15·09	− ·323
+84°	196**	9	5	16·340	84	23	10·47	+ ·066
+81°	302		30	7·447	81	33	0·28	− ·043
+84°	234*	10	22	41·756	84	30	28·87	− ·105
+83°	297		25	9·898	82	48	52·02	− ·009
+86°	161**	11	8	48·671	85	54	43·59	+ ·060
+86°	176**	12	2	9·928	85	51	50·84	− ·033
+88°	71*		14	44·554	87	58	37·53	+ ·279
+84°	289*		48	45·945	83	41	4·50	+ ·042
+83°	397**	13	43	40·850	83	0	12·93	− ·151
+83°	431**	14	53	33·631	82	43	7·05	− ·083
+87°	143*		53	34·866	87	25	20·22	− ·170
+83°	453**	15	48	28·262	83	6	3·39	− ·159
+82°	498	16	51	0·888	82	7	21·57	+ ·003
+86°	269	17	48	18·292	86	39	34·85	− ·149
+88°	112	18	21	21·379	89	3	3·50	.....
+83°	536**		30	47·796	83	8	32·48	− ·063
+84°	541**	20	6	53·181	84	31	36·35	+ ·036
+81°	718		46	19·839	82	20	52·38	− ·038
+86°	319*	21	9	16·096	86	49	57·40	+ ·080
+85°	383	22	17	33·718	85	51	27·05	− ·220
+83°	640**		54	53·121	84	4	43·87	+ ·136
+86°	344*	23	27	33·983	87	1	54·30	+ ·107
+82°	743**		54	3·915	82	54	46·37	+ ·003

The azimuth stars are listed in Table III. The stars that were discontinued in 1941 are marked * and those that were substituted are marked as **. This table gives the 1950 adopted positions.

The right ascensions of the stars were computed using Bessel's formula:—

$$\alpha = T + c' \sec \delta + n \tan \delta + M$$

where T is the time of transit.

c′ included corrections for collimation, diurnal aberration, pivot error and one-half the contact strip width.

The collimation line was determined before and after each observing period by means of horizontal collimators and generally the mean of these 2 readings was adopted to determine the collimation error. The mean of the 20 contacts and the half-strip width were determined usually once a month. Denoting the mean of contacts as M and the reading of the collimation line by C, the formula gives the collimation correction:—

$$\text{CL E} \quad c = (C\text{-}M)R$$
$$\text{CL W} \quad c = (M\text{-}C)R$$

R = 3ˢ.220 is the value of one revolution of the right ascension micrometer screw and the correction for the irregularity of the pivots is zero for this particular combination of circle settings.

The pivot errors determined in 1912 (See Publications of Dominion Observatory, Volume XV, No. 1, page 7) were re-measured in 1930 and again in 1950, the Cape method being used in each instance and the same form of the pivots was revealed in each case. Pivot irregularities measured

TABLE IV—PIVOT ERRORS

W Pointer	Δ c Clamp E		W Pointer	Δ c Clamp E		W Pointer	Δ c Clamp E	
	Read	Adopted		Read	Adopted		Read	Adopted
	s	s		s	s		s	s
0	·000	·000	120	−·023	−·025	240	−·024	−·025
5	·000	·000	125	−·024	−·025	245	−·024	−·023
10	+·001	+·002	130	−·024	−·025	250	−·020	−·020
15	+·005	+·004	135	−·023	−·023	255	−·018	−·016
20	+·008	+·007	140	−·020	−·021	260	−·013	−·011
25	+·012	+·011	145	−·016	−·018	265	−·008	−·006
30	+·014	+·014	150	−·012	−·014	270	−·001	·000
35	+·018	+·018	155	−·010	−·011	275	+·005	+·006
40	+·020	+·021	160	−·006	−·007	280	+·011	+·011
45	+·023	+·023	165	−·004	−·004	285	+·018	+·016
50	+·024	+·025	170	−·002	−·002	290	+·019	+·020
55	+·025	+·025	175	·000	·000	295	+·022	+·023
60	+·025	+·025	180	·000	·000	300	+·024	+·025
65	+·023	+·023	185	·000	·000	305	+·025	+·025
70	+·019	+·020	190	+·002	−·002	310	+·024	+·025
75	+·014	+·016	195	−·004	−·004	315	+·022	+·023
80	+·010	+·011	200	−·004	−·007	320	+·022	+·021
85	+·004	+·006	205	−·011	−·011	325	+·018	+·018
90	·000	·000	210	−·014	−·014	330	+·016	+·014
95	−·009	−·006	215	−·018	−·018	335	+·012	+·011
100	−·013	−·011	220	−·022	−·021	340	+·008	+·007
105	−·016	−·016	225	−·023	−·023	345	+·003	+·004
110	−·017	−·020	230	−·024	−·025	350	·000	+·002
115	−·020	−·023	235	−·025	−·025	355	·000	·000

as corrections to the level and azimuth were converted to a correction applicable to the collimation. Solutions were then made to find a function to best represent the observed values. The expression adopted was:—

$$\text{Pivot error} = 0^{s}.066 \sin^2\theta \cos\theta$$

where θ is the west pointer setting. Table IV gives the observed and adopted values as applied to this catalogue.

The clamp differences for all zones were investigated by using all the stars in the program that were common to the FK3. These were brought to the epoch 1950 using FK3 proper motions, and were compared by declinations, weighting them with the probability formula $\frac{m\,n}{m+n}$ where m and n are the number of observations in each clamp.

Table V gives the observed and adopted values of the clamp difference. The adopted corrections were obtained from the observations by smoothing them twice by the formula 1:2:1.

TABLE V— $\Delta\,\alpha$ (CLAMP WEST-CLAMP EAST) Cos δ

Decl.	Observed	Weight	Adopted
	s		s
60° L	+·041	5·8	+·017
65 L	−·009	8·8	+·011
70 L	+·031	5·4	+·006
75 L	000	3·7	−·001
80 L	−·003	36·6	−·003
85 L	−·003	206·3	−·002
90	+·019	3·3	000
85	+·003	177·8	+·001
80	−·003	57·6	+·001
75	+·015	2·7	+·001
70	+·009	10·0	+·007
65	+·009	9·0	+·015
60	+·023	16·5	+·019
55	+·021	16·5	+·019
50	+·022	32·8	+·016
45	+·007	43·8	+·011
40	+·008	43·4	+·007
35	+·002	29·8	+·006
30	+·005	41·6	+·007
25	+·013	22·9	+·008
20	+·008	66·9	+·006
15	+·001	59·3	+·003
10	+·003	83·2	+·001
5	−·001	87·6	−·001
0	−·002	73·2	−·003
−5	−·006	79·0	−·008
−10	−·018	90·9	−·011
−15	−·006	54·1	−·010
−20	−·005	45·8	−·009
−25	−·013	51·6	−·010
−30	−·008	9·2	−·011

After the clamp differences were applied the circumpolar stars were compared above and below the pole. Table VI gives this comparison and no correction was applied.

TABLE VI—COMPARISON OF STARS AT UPPER AND LOWER CULMINATION

Stars	$\Delta\alpha$ (Upper – Lower) Cos δ	Wt.
	s	
80° to 90°.....	– ·001	457
70° to 80°.....	+ ·003	18
60° to 70°.....	– ·004	39
	s	
TOTAL.....	– ·001	514

In order to determine the weighting required to combine observations made at upper and lower culmination, the ratios of the probable error of a single observation were compared. The results are given in Table VII.

TABLE VII—COMPARISON FOR COMBINING OBSERVATIONS AT UPPER AND LOWER CULMINATION.

Declination	$\left(\frac{p.e.\ \text{Lower}}{p.e.\ \text{Upper}}\right)^2$
60° to 65°	2·0
65° to 70°	1·2
70° to 75°	1·0

As a result observations at upper and lower culmination were combined with equal weights except for those stars which lie between 60° and 65° where the lower culminations were brought in with ½ weight. In the catalogue list of stars the number of observations is the equivalent number of transits at upper culmination.

DECLINATIONS

The declinations for this program were observed and compared in the same manner as those published in Volume XV, No. 2. Four bisections were taken on each star and 4 microscopes were used. The corrections for division error, and progressive error of the micrometer screw were the same as those given in these Publications, Volume XV, No. 1 and the refraction tables used are given in Volume XV, No. 2. No corrections for flexure were applied.

Corrections for the variation of latitude were computed from the values given by the International Latitude Service. The published values were used for the years 1935 to 1948. For 1949 and 1950 the corrections +″.004 for X and –″.022 for Y (Bulletin Geodesique No. 17, September 1950) were applied to bring them to the same system. The corrections applied are given in Table VIII.

TABLE VIII—VARIATION IN LATITUDE

Year	0·0	0·1	0·2	0·3	0·4	0·5	0·6	0·7	0·8	0·9	Year
	″	″	″	″	″	″	″	″	″	″	
1935	+0·02	−0·01	0·00	+0·03	+0·05	+0·06	+0·05	+0·06	+0·03	+0·02	1935
1936	+ ·04	+ ·06	+ ·08	+ ·09	+ ·09	+ ·08	+ ·05	·00	− ·03	− ·04	1936
1937	·00	+ ·02	+ ·09	+ ·13	+ ·16	+ ·15	+ ·08	+ ·03	− ·03	− ·05	1937
1938	− ·05	− ·03	+ ·05	+ ·11	+ ·14	+ ·15	+ ·16	+ ·12	+ ·01	− ·05	1938
1939	− ·06	− ·04	+ ·04	+ ·11	+ ·15	+ ·17	+ ·17	+ ·15	+ ·10	+ ·05	1939
1940	− ·01	− ·06	− ·04	+ ·03	+ ·11	+ ·15	+ ·14	+ ·13	+ ·10	+ ·06	1940
1941	+ ·03	·00	− ·01	·00	+ ·07	+ ·10	+ ·13	+ ·13	+ ·10	+ ·06	1941
1942	+ ·02	·00	·00	+ ·02	+ ·03	+ ·03	+ ·03	+ ·07	+ ·10	+ ·12	1942
1943	+ ·15	+ ·12	+ ·09	+ ·08	+ ·07	+ ·03	− ·01	− ·04	− ·03	·00	1943
1944	+ ·04	+ ·12	+ ·15	+ ·16	+ ·16	+ ·15	+ ·01	− ·10	− ·18	− ·15	1944
1945	− ·10	− ·03	+ ·09	+ ·19	+ ·25	+ ·27	+ ·13	+ ·04	− ·01	− ·18	1945
1946	− ·17	− ·14	− ·05	+ ·10	+ ·19	+ ·27	+ ·30	+ ·25	+ ·16	+ ·02	1946
1947	− ·07	− ·12	− ·08	− ·03	+ ·08	+ ·17	+ ·23	+ ·26	+ ·24	+ ·20	1947
1948	+ ·14	+ ·04	− ·02	− ·09	− ·10	− ·07	− ·03	+ ·03	+ ·14	+ ·27	1948
1949	+ ·27	+ ·27	+ ·22	+ ·11	+ ·01	− ·06	− ·13	− ·17	− ·09	+ ·05	1949
1950	+ ·16	+ ·27	+ ·32	+ ·29	+ ·23	+ ·14	− ·01	− ·15	− ·25	− ·26	1950

The clamp differences for all zones were investigated by using all the stars in the program which were common to the FK3. These were brought to the epoch 1950 using FK3 proper motions, and were compared by declination weighting them with the probability formula $\frac{m\,n}{m+n}$ where m and n are the number of observations in each clamp.

Table IX gives a comparison of declinations of the clock stars, clamp west minus clamp east in groups by declination and right ascension. This table shows there is no correction for clamp difference with change of right ascension. Table X gives the comparison for the FK3 azimuth stars dividing them into upper and lower culmination, and Table XI gives the same for the other FK3 stars. As there appeared to be no variation of clamp difference with declinations, these were combined in Table XII. The numbers in subscripts indicate the weights used.

TABLE IX—COMPARISONS OF DECLINATIONS CLAMP WEST AND CLAMP EAST
CLOCK STARS Δ δ (CL. W. – CL. E.)

Dec.	R.A.	h h 0 to 6	h h 6 to 12	h h 12 to 18	h h 18 to 24	Mean
°	°	″	″	″	″	″
−20 to	−15	.....	$+0{\cdot}54_{3}$	$+1{\cdot}01_{23}$	$+{\cdot}080_{6}$	$+0{\cdot}93_{32}$
−15 to	−10	$+0{\cdot}37_{13}$	$+{\cdot}53_{24}$	$+{\cdot}72_{67}$	$+{\cdot}57_{60}$	$+{\cdot}61_{164}$
−10 to	− 5	$+{\cdot}79_{45}$	$+{\cdot}78_{14}$	$+{\cdot}54_{71}$	$+{\cdot}61_{102}$	$+{\cdot}63_{232}$
− 5 to	0	$+{\cdot}62_{38}$	$+{\cdot}67_{32}$	$+{\cdot}69_{59}$	$+{\cdot}52_{114}$	$+{\cdot}60_{243}$
0 to	5	$+{\cdot}67_{26}$	$+{\cdot}52_{46}$	$+{\cdot}44_{86}$	$+{\cdot}35_{81}$	$+{\cdot}45_{239}$
5 to	10	$+{\cdot}67_{58}$	$+{\cdot}65_{110}$	$+{\cdot}67_{40}$	$+{\cdot}71_{107}$	$+{\cdot}68_{315}$
10 to	15	$+{\cdot}76_{29}$	$+{\cdot}75_{83}$	$+{\cdot}90_{29}$	$+{\cdot}74_{84}$	$+{\cdot}77_{225}$
15 to	20	$+{\cdot}58_{43}$	$+{\cdot}79_{49}$	$+{\cdot}67_{63}$	$+{\cdot}59_{65}$	$+{\cdot}66_{220}$
20 to	25	$+{\cdot}24_{4}$	$+{\cdot}66_{7}$	$+{\cdot}66_{18}$	$-{\cdot}15_{8}$	$+{\cdot}53_{32}$
		″	″	″	″	″
Mean.....		$+{\cdot}66_{258}$	$+{\cdot}67_{368}$	$+{\cdot}65_{456}$	$+{\cdot}59_{622}$	$+{\cdot}63_{1702}$

TABLE X—FK3 AZIMUTH STARS

Δ δ (Cl. W. - Cl. E.)

BD NO.		Upper	Lower
°		″	″
+81	302	$+1\cdot05_{10}$	$-0\cdot77_{14}$
+82	498	$+\cdot62_{25}$	$-\cdot02_{9}$
+81	718	$+\cdot56_{21}$	$-\cdot64_{11}$
+83	431	$-\cdot52_{6}$	$+\cdot92_{2}$
+83	297	$+\cdot98_{8}$	$-\cdot22_{10}$
+82	743	$+\cdot35_{7}$	$+\cdot05_{8}$
+83	397	$+\cdot03_{7}$	$-\cdot39_{5}$
+83	453	$+\cdot11_{2}$	$+1\cdot61_{2}$
+83	536	$+\cdot68_{7}$	$-\cdot12_{4}$
+82	51	$-\cdot71_{3}$	$+\cdot23_{4}$
+83	640	$+\cdot35_{9}$	$-\cdot60_{8}$
+84	169	$+\cdot34_{7}$	$-\cdot21_{11}$
+84	196	$+\cdot42_{6}$	$-\cdot57_{10}$
+84	451	$+\cdot82_{11}$	$-\cdot19_{5}$
+84	59	$+\cdot24_{8}$	$+\cdot27_{10}$
+85	80	$+\cdot68_{17}$	$-\cdot70_{26}$
+85	63	$+\cdot49_{13}$	$-\cdot30_{13}$
+85	383	$+\cdot32_{10}$	$-\cdot99_{7}$
+86	176	$+\cdot10_{4}$	$+\cdot13_{5}$
+85	74	$+\cdot37_{2}$	$+\cdot18_{6}$
+86	161	$-\cdot10_{3}$	$-\cdot45_{6}$
+85	19	$+\cdot68_{6}$	$-\cdot09_{15}$
+86	269	$+\cdot69_{29}$	$-\cdot58_{15}$
+87	51	$+\cdot73_{12}$	$-\cdot59_{29}$
+88	8	$+\cdot20_{4}$	$-\cdot29_{4}$
		″	″
Weighted Mean.....		$+\cdot52$	$-\cdot35$

TABLE XI—OTHER FK3 STARS

Δ δ (Cl. W. - Cl. E.)

Zone	Δδ (Cl. W.–Cl. E.)
	″
−30° to −20°	$+0\cdot56_{85}$
−20° to −10°	$+\cdot64_{79}$
−10° to 0°	$+\cdot44_{67}$
0° to 10°	$+\cdot53_{51}$
10° to 20°	$+\cdot65_{49}$
20° to 30°	$+\cdot68_{82}$
30° to 40°	$+\cdot66_{74}$
40° to 50°	$+\cdot54_{90}$
50° to 60°	$+\cdot38_{49}$
60° to 70°	$+\cdot55_{24}$
70° to 80°	$+\cdot55_{13}$
80L to 70L	$-\cdot60_{9}$
70L to 60L	$-\cdot46_{23}$
	″
Weighted Mean	$+\cdot57_{694}$

TABLE XII—SUMMARY

Δ δ (Cl. W. - Cl. E.)

Star Group	Δδ (Cl. W–Cl. E)
	″
Clock Stars.....	$+0\cdot63_{1702}$
Other FK3 Stars.....	$+\cdot44_{481}$
FK3 Polars.....	$+\cdot57_{694}$
	″
Weighted Mean.....	$+0\cdot58_{2878}$

Adopted value Δδ (Cl. W.–Cl. E.) = + 0″58

$\delta = \delta_E + 0''29$; $\delta = \delta_W - 0''29$

TABLE XIII—DIFFERENCES IN DECLINATION ABOVE AND BELOW POLE

BD Number		Z		Z′		Tan Z + Tan Z′	δ − δ′	n	n′	ρ	ν
°		°	′	°	′		″				″
+88	8	43	38	45	35	1·973	+0·20	16	17	8	−0·45
+87	51	42	44	46	29	1·976	+0·76	50	118	35	+0·11
+86	269	41	13	48	0	1·986	+0·62	121	62	41	−0·03
+85	19	40	36	48	37	1·991	+0·77	32	59	21	+0·12
+86	161	40	31	48	42	1·992	+0·61	13	22	8	−0·04
+85	74	40	30	48	43	1·992	+0·84	8	26	6	+0·19
+86	176	40	28	48	45	1·993	+0·04	19	26	11	−0·61
+85	383	40	28	48	45	1·993	+0·43	42	29	17	−0·22
+85	63	40	1	49	12	1·998	+0·68	50	72	30	+0·03
+85	80	39	47	49	26	2·000	+0·43	70	103	42	−0·22
+84	59	39	21	49	52	2·006	+0·35	28	47	18	−0·30
+84	451	39	8	50	5	2·009	+0·90	45	18	13	+0·25
+84	196	39	0	50	13	2·011	+1·00	29	42	17	+0·35
+83	640	38	49	50	24	2·013	+1·04	29	48	18	+0·39
+84	169	38	41	50	32	2·015	+0·99	37	32	17	+0·34
+82	51	37	56	51	17	2·027	+0·87	11	17	7	+0·22
+83	536	37	45	51	28	2·030	+0·98	36	17	12	+0·33
+83	453	37	43	51	30	2·031	+0·79	12	13	6	+0·14
+83	397	37	37	51	36	2·032	+0·58	34	19	12	−0·07
+82	743	37	31	51	42	2·034	+0·47	33	32	16	−0·18
+83	287	37	25	51	48	2·036	+0·71	32	41	18	+0·06
+83	431	37	20	51	53	2·037	+0·35	38	15	11	−0·30
+81	718	36	57	52	16	2·044	+0·62	85	46	30	−0·03
+82	498	36	44	52	29	2·049	+0·76	100	37	27	+0·11
+81	302	36	9	53	4	2·061	+0·58	39	55	23	−0·07

TABLE XIV—DIFFERENCES IN DECLINATION ABOVE AND BELOW POLE

BD Number		Z		Z′		Tan Z + Tan Z′	δ − δ′	n	n′	ρ	ν
°		°	′	°	′		″				″
+78	527	32	35	56	38	2·158	+0·99	8	4	3	+0·34
+76	928	31	58	57	15	2·179	+1·74	6	7	3	+1·09
+74	595	28	58	60	15	2·303	+0·91	10	8	4	+0·26
+72	957	26	58	62	15	2·409	+1·16	11	6	4	+0·51
+72	679	26	37	62	36	2·430	+0·89	8	6	3	+0·24
+79	1173	24	57	64	16	2·540	+0·77	7	3	2	+0·12
+70	665	24	13	65	0	2·594	+0·57	7	7	4	−0·08
+69	258	23	52	65	21	2·622	+0·36	5	3	3	−0·29
+67	1129	22	11	67	2	2·768	−0·73	8	3	2	−1·38
+65	1814	20	33	68	40	2·935	+1·03	10	7	4	+0·38
+65	517	20	20	68	52	2·958	−0·05	7	10	4	−0·70
+65	978	19	13	70	0	3·096	−0·13	7	6	4	−0·78
+64	391	19	1	70	12	3·122	+0·74	9	8	4	+0·09
+62	320	18	2	71	11	3·260	+1·14	7	11	4	+0·49
+61	2111	16	59	72	14	3·426	+0·55	8	7	4	−0·10
+62	1161	16	38	72	35	3·486	+0·71	3	3	2	+0·06
+62	1198	16	17	72	56	3·549	+0·72	6	7	3	+0·07
+61	1598	15	32	73	41	3·694	−0·09	16	8	5	−0·74

After the clamp differences had been applied the circumpolar stars were examined to determine the correction to the adopted latitude and refraction by use of the equations of the form:—

$$2\Delta\varphi + \Delta R(\text{Tan } Z + \text{Tan } Z') = \delta' - \delta$$

The values given in Tables XIII and XIV are for the individual stars; Z, n and δ apply to upper culmination, Z′, n′ and δ' to lower culmination, and the weight ρ was obtained using the formula $\frac{n\,n'}{n + n'}$, and ν is the residual after $\Delta\varphi = -0''.32$ has been removed. This led to the normal equations:

$$526(2\Delta\varphi) + 1107(\Delta R) = -341\cdot4$$
$$1107(2\Delta\varphi) + 2384(\Delta R) = -708\cdot5$$

ΔR and $\Delta\varphi$ are not separable from these equations since there were too few observations in the zone 60° to 70°. The solution is therefore given as: $\Delta\varphi = -0''.324 - 1\cdot052\Delta R$; for the reduction of these observations Δ R has been put equal to zero and $\Delta\varphi = -0''.32$.

Table XV gives the solution for 2 $\Delta\varphi$ without refraction correction; for this table the stars are grouped in 10° zones.

Latitude of Ottawa Meridian Circle as obtained by this catalogue is: 45° 23′ 38″.68.

In order to determine the weighting required to combine observations made at upper and lower culmination, the ratios of the probable error of a single observation were compared. The results are given in Table XVI.

As a result observations at upper and lower culmination were combined with equal weight.

TABLE XV—$\Delta\delta$ (UPPER-LOWER)

Star Group	Weight	$\Delta\delta$ (U-L)
		″
60° to 70°	36	+0·41
70° to 80°	26	+0·92
80° to 90°	464	+0·65
		″
Total	526	+0·65

TABLE XVI—COMPARISON FOR COMBINING OBSERVATIONS AT UPPER AND LOWER CULMINATION.

Declination	$\left(\frac{p.e.\ \text{Lower}}{p.e.\ \text{Upper}}\right)^2$
60° to 65°	1·4
65° to 70°	1·0
70° to 75°	1·0

COMPARISON WITH CATALOGUES

The observed position of each star, common to the FK3 and G.C. was reduced to the epoch 1950 using FK3 and G.C. proper motions. Differences were then formed giving for each star O – FK3 and O – G.C. The differences represent the corrections to FK3 and G.C. at the epoch of observation.

The individual differences of O – FK3 and O – G. C. were collected into groups covering 3 hours of right ascension and 5 degrees of declination. In Tables XVII to XXII the quantities $\Delta\alpha_\delta$ and $\Delta\delta_\delta$ represent weighted means taken over the 24 hours of right ascension and have been subtracted from the means of the groups so as to permit the remainder of the tables to exhibit variation with right ascension.

The individual differences in right ascensions for the zone 60° to 90° were multiplied by cos δ and collected into groups as described above and the results are shown in Tables XVIII and XXI.

Comparisons were made at all times with our previous catalogue, Volume XV, No. 2, which contained the same stars.

The clamp difference in right ascension for these 2 programs is the same although the object glass and eye end have been interchanged, but the micrometer head retained the same relative position for each clamp. It would appear therefore that the clamp difference was related to the micrometer head.

The clamp difference was examined and could be fairly well explained if there was a correction that could be expressed in the form $\Delta c = {}^{s}.015$. The instrument was examined for a frame correction (MN Volume 104, 1944, page 151) by setting the right ascension moving wires on the fixed wires in the telescope at various positions of the circle.

TABLE XVII—DIFFERENCES IN RIGHT ASCENSION (O–FK3)

Decl.	$\Delta\alpha_\delta$	$\Delta\alpha_\alpha$							
		0^h to 3^h	3^h to 6^h	6^h to 9^h	9^h to 12^h	12^h to 15^h	15^h to 18^h	18^h to 21^h	21^h to 24^h
° °	s	s	s	s	s	s	s	s	s
+90 to +85	$-\cdot 189_{10}$	$-\cdot 369_{2}$	$+\cdot 151_{3}$	$-\cdot 133_{1}$	$+\cdot 249_{1}$	$+\cdot 156_{1}$	$+\cdot 040_{1}$	.....	$-\cdot 031_{1}$
+85 to +80	$-\cdot 054_{15}$	$-\cdot 251_{1}$	$-\cdot 129_{1}$	$+\cdot 033_{1}$	$+\cdot 059_{3}$	$-\cdot 063_{2}$	$-\cdot 024_{2}$	$+\cdot 032_{3}$	$+\cdot 124_{2}$
+80 to +75	$+\cdot 050_{2}$	.....	.....	.....	.....	.....	$-\cdot 094_{1}$	.....	$+\cdot 095_{1}$
+75 to +70	$+\cdot 012_{4}$	.....	.....	.....	.....	$+\cdot 026_{1}$	$+\cdot 065_{1}$	$-\cdot 040_{1}$	$-\cdot 051_{1}$
+70 to +65	$-\cdot 001_{5}$	.....	$+\cdot 024_{1}$	$-\cdot 012_{1}$	$+\cdot 032_{1}$	.....	.....	$-\cdot 037_{1}$	$+\cdot 005_{1}$
+65 to +60	$+\cdot 015_{8}$	$-\cdot 019_{2}$	$+\cdot 041_{1}$	.....	$+\cdot 027_{2}$	$-\cdot 009_{1}$	$-\cdot 006_{1}$	.....	$-\cdot 042_{1}$
+60 to +55	$-\cdot 002_{10}$	$+\cdot 007_{3}$	$+\cdot 005_{1}$	$-\cdot 020_{1}$	$+\cdot 020_{2}$	$-\cdot 032_{2}$	.....	.....	$+\cdot 016_{1}$
+55 to +50	$-\cdot 012_{13}$	$-\cdot 027_{1}$	$-\cdot 001_{1}$	.....	$+\cdot 016_{2}$	$+\cdot 013_{1}$	$-\cdot 016_{2}$	$-\cdot 002_{4}$	$+\cdot 009_{2}$
+50 to +45	$-\cdot 022_{23}$	$+\cdot 009_{2}$	$+\cdot 023_{5}$	$+\cdot 006_{4}$	$+\cdot 002_{2}$	$-\cdot 011_{3}$	$-\cdot 013_{4}$	$-\cdot 025_{3}$	.....
+45 to +40	$-\cdot 022_{18}$	$-\cdot 011_{2}$	$+\cdot 011_{3}$	$+\cdot 008_{3}$	$\cdot 000_{3}$	$-\cdot 002_{2}$	$+\cdot 005_{2}$	$-\cdot 005_{3}$	$-\cdot 014_{1}$
+40 to +35	$-\cdot 014_{16}$	$+\cdot 007_{3}$	$-\cdot 020_{2}$	$+\cdot 042_{2}$	$+\cdot 002_{1}$	$\cdot 000_{3}$	$+\cdot 006_{1}$	$-\cdot 032_{1}$	$-\cdot 016_{3}$
+35 to +30	$-\cdot 016_{18}$	$-\cdot 006_{2}$	$+\cdot 010_{2}$	.....	$-\cdot 009_{3}$	$+\cdot 010_{4}$	$+\cdot 001_{1}$	$-\cdot 005_{3}$	$-\cdot 004_{1}$
+30 to +25	$-\cdot 001_{21}$	$+\cdot 011_{2}$	$+\cdot 006_{3}$	$+\cdot 006_{3}$	$+\cdot 025_{2}$	$-\cdot 009_{3}$	$+\cdot 004_{2}$	$+\cdot 017_{3}$	$-\cdot 016_{3}$
+25 to +20	$-\cdot 004_{24}$	$-\cdot 002_{4}$	$-\cdot 010_{4}$	$-\cdot 006_{4}$	$-\cdot 011_{2}$	$-\cdot 020_{1}$	$+\cdot 007_{3}$	$+\cdot 004_{3}$	$+\cdot 023_{3}$
+20 to +15	$+\cdot 003_{40}$	$+\cdot 011_{6}$	$+\cdot 004_{6}$	$+\cdot 001_{4}$	$+\cdot 014_{4}$	$-\cdot 001_{6}$	$-\cdot 012_{4}$	$-\cdot 009_{5}$	$-\cdot 011_{5}$
+15 to +10	$+\cdot 001_{27}$	$-\cdot 011_{1}$	$-\cdot 003_{2}$	$-\cdot 005_{5}$	$+\cdot 010_{5}$	$-\cdot 002_{3}$	$+\cdot 007_{3}$	$-\cdot 004_{6}$	$-\cdot 002_{2}$
+10 to + 5	$+\cdot 002_{44}$	$-\cdot 002_{7}$	$-\cdot 005_{5}$	$+\cdot 003_{6}$	$+\cdot 005_{5}$	$\cdot 000_{4}$	$\cdot 000_{6}$	$-\cdot 002_{4}$	$\cdot 000_{7}$
+ 5 to 0	$+\cdot 005_{33}$	$-\cdot 002_{5}$	$+\cdot 010_{2}$	$-\cdot 023_{3}$	$-\cdot 012_{5}$	$-\cdot 017_{4}$	$+\cdot 021_{3}$	$+\cdot 005_{4}$	$-\cdot 007_{2}$
0 to − 5	$+\cdot 001_{41}$	$-\cdot 018_{3}$	$+\cdot 005_{4}$	$+\cdot 004_{6}$	$-\cdot 002_{4}$	$-\cdot 004_{5}$	$-\cdot 002_{5}$	$+\cdot 004_{7}$	$+\cdot 001_{7}$
− 5 to −10	$+\cdot 007_{40}$	$+\cdot 002_{5}$	$-\cdot 001_{8}$	$-\cdot 015_{3}$	$+\cdot 013_{4}$	$-\cdot 002_{6}$	$+\cdot 004_{3}$	$-\cdot 003_{6}$	$\cdot 000_{5}$
−10 to −15	$+\cdot 001_{36}$	$-\cdot 019_{4}$	$-\cdot 023_{2}$	$+\cdot 009_{4}$	$+\cdot 020_{5}$	$+\cdot 009_{7}$	$-\cdot 010_{5}$	$\cdot 000_{5}$	$-\cdot 001_{4}$
−15 to −20	$-\cdot 011_{33}$	$-\cdot 009_{7}$	$-\cdot 028_{3}$	$-\cdot 002_{5}$	$-\cdot 009_{2}$	$+\cdot 024_{5}$	$-\cdot 001_{3}$	$+\cdot 026_{3}$	$-\cdot 004_{5}$
−20 to −25	$-\cdot 009_{25}$	$-\cdot 007_{4}$	$+\cdot 017_{3}$	$-\cdot 023_{4}$	$+\cdot 017_{2}$	$+\cdot 018_{4}$	$+\cdot 003_{3}$	$+\cdot 006_{3}$	$+\cdot 005_{2}$
−25 to −30	$-\cdot 001_{26}$	$+\cdot 005_{1}$	$+\cdot 005_{1}$	$-\cdot 020_{2}$	$+\cdot 005_{2}$	$+\cdot 001_{4}$	$+\cdot 014_{6}$	$-\cdot 001_{8}$	$-\cdot 031_{2}$
Below −30	$-\cdot 008_{2}$	.....	.....	$+\cdot 002_{1}$	.....	.....	.....	$-\cdot 003_{1}$	.....

TABLE XVIII

$\Delta\alpha$ Cos δ (O–FK3)

Decl.	$\Delta\alpha_\delta$	$\Delta\alpha_\alpha$								
		0^h to 3^h	3^h to 6^h	6^h to 9^h	9^h to 12^h	12^h to 15^h	15^h to 18^h	18^h to 21^h	21^h to 24^h
° °	s	s	s	s	s	s	s	s	s
90 to 85	$-\cdot 007_{10}$	$-\cdot 005_2$	$+\cdot 004_3$	$-\cdot 009_1$	$+\cdot 011_1$	$+\cdot 005_1$	$-\cdot 002_1$	.....	$-\cdot 009_1$
85 to 80	$-\cdot 005_{15}$	$-\cdot 030_1$	$-\cdot 012_1$	$+\cdot 003_1$	$+\cdot 005_3$	$-\cdot 010_2$	$-\cdot 005_2$	$+\cdot 002_3$	$+\cdot 012_3$
80 to 75	$+\cdot 012_2$	.....	.....	.....	.....	.....	$-\cdot 021_1$	.....	$+\cdot 020_1$
75 to 70	$+\cdot 003_4$	.....	.....	.....	.....	$+\cdot 007_1$	$+\cdot 021_1$	$-\cdot 011_1$	$-\cdot 016_1$
70 to 65	$\cdot 000_5$	.....	$+\cdot 008_1$	$-\cdot 005_1$	$+\cdot 011_1$	.....	.....	$-\cdot 015_1$	$+\cdot 002_1$
65 to 60	$+\cdot 006_3$	$-\cdot 009_2$	$+\cdot 018_1$	.....	$+\cdot 014_2$	$-\cdot 003_1$	$-\cdot 002_1$	.....	$-\cdot 019_1$

TABLE XIX—DIFFERENCES IN DECLINATION (O–FK3)

Decl.	$\Delta\delta_\delta$	$\Delta\delta_\alpha$							
		0^h to 3^h	3^h to 6^h	6^h to 9^h	9^h to 12^h	12^h to 15^h	15^h to 18^h	18^h to 21^h	21^h to 24^h
° °	″	″	″	″	″	″	″	″	″
+90 to +85	$+\cdot 04_{10}$	$+\cdot 02_2$	$-\cdot 15_3$	$-\cdot 12_1$	$+\cdot 19_1$	$+\cdot 59_1$	$\cdot 00_1$	.....	$-\cdot 25_1$
+85 to +80	$+\cdot 04_{15}$	$+\cdot 18_1$	$-\cdot 13_1$	$-\cdot 22_1$	$+\cdot 12_3$	$+\cdot 06_2$	$+\cdot 04_2$	$+\cdot 05_3$	$-\cdot 24_3$
+80 to +75	$\cdot 00_2$	.....	.....	.....	.....	.....	$+\cdot 28_1$	.....	$-\cdot 28_1$
+75 to +70	$-\cdot 06_4$	.....	.....	.....	.....	$+\cdot 26_1$	$+\cdot 10_1$	$-\cdot 42_1$	$+\cdot 06_1$
+70 to +65	$-\cdot 02_5$	.....	$-\cdot 53_1$	$-\cdot 28_1$	$+\cdot 26_1$	.....	.....	$+\cdot 41_1$	$+\cdot 14_1$
+65 to +60	$+\cdot 09_3$	$-\cdot 02_2$	$-\cdot 02_1$	.....	$-\cdot 11_2$	$+\cdot 09_1$	$+\cdot 53_1$	.....	$-\cdot 34_1$
+60 to +55	$+\cdot 09_{10}$	$\cdot 00_3$	$+\cdot 15_1$	$-\cdot 37_1$	$+\cdot 07_2$	$-\cdot 09_2$	.....	.....	$+\cdot 24_1$
+55 to +50	$+\cdot 08_{13}$	$+\cdot 14_1$	$+\cdot 37_1$	.....	$-\cdot 12_2$	$-\cdot 20_1$	$+\cdot 12_2$	$+\cdot 14_4$	$-\cdot 06_2$
+50 to +45	$-\cdot 01_{23}$	$+\cdot 10_3$	$-\cdot 03_5$	$+\cdot 03_4$	$-\cdot 09_2$	$-\cdot 04_3$	$+\cdot 01_4$	$+\cdot 04_3$	.....
+45 to +40	$-\cdot 26_{18}$	$+\cdot 02_2$	$-\cdot 10_3$	$+\cdot 02_2$	$+\cdot 20_3$	$-\cdot 06_2$	$+\cdot 16_2$	$-\cdot 08_3$	$-\cdot 37_1$
+40 to +35	$-\cdot 20_{16}$	$+\cdot 18_3$	$+\cdot 18_2$	$-\cdot 46_2$	$+\cdot 45_1$	$-\cdot 03_2$	$-\cdot 08_1$	$+\cdot 03_1$	$-\cdot 07_3$
+35 to +30	$-\cdot 26_{16}$	$-\cdot 02_2$	$-\cdot 17_2$	.....	$+\cdot 21_3$	$+\cdot 04_4$	$+\cdot 07_1$	$-\cdot 14_3$	$+\cdot 01_1$
+30 to +25	$-\cdot 12_{21}$	$-\cdot 18_3$	$+\cdot 03_3$	$-\cdot 16_3$	$+\cdot 08_2$	$+\cdot 04_3$	$-\cdot 10_2$	$-\cdot 04_3$	$+\cdot 27_3$
+25 to +20	$-\cdot 28_{24}$	$-\cdot 19_4$	$+\cdot 15_4$	$-\cdot 13_4$	$+\cdot 43_2$	$-\cdot 38_1$	$+\cdot 22_3$	$-\cdot 21_3$	$+\cdot 06_3$
+20 to +15	$-\cdot 18_{41}$	$+\cdot 12_6$	$\cdot 00_7$	$+\cdot 15_4$	$-\cdot 03_4$	$-\cdot 10_6$	$+\cdot 11_4$	$-\cdot 13_5$	$-\cdot 09_5$
+15 to +10	$-\cdot 21_{23}$	$-\cdot 04_1$	$+\cdot 19_2$	$+\cdot 14_5$	$-\cdot 06_3$	$-\cdot 16_3$	$+\cdot 20_2$	$-\cdot 07_6$	$-\cdot 13_3$
+10 to + 5	$-\cdot 28_{45}$	$-\cdot 05_7$	$-\cdot 06_5$	$-\cdot 01_7$	$-\cdot 03_5$	$-\cdot 05_4$	$+\cdot 10_3$	$+\cdot 12_4$	$+\cdot 03_7$
+ 5 to 0	$-\cdot 23_{33}$	$-\cdot 19_5$	$-\cdot 17_2$	$+\cdot 29_3$	$-\cdot 12_5$	$+\cdot 01_4$	$+\cdot 21_3$	$-\cdot 08_4$	$-\cdot 27_2$
0 to − 5	$-\cdot 24_{41}$	$-\cdot 17_3$	$-\cdot 09_4$	$-\cdot 10_3$	$+\cdot 07_4$	$+\cdot 02_5$	$+\cdot 02_5$	$+\cdot 13_7$	$\cdot 00_7$
− 5 to −10	$-\cdot 20_{41}$	$-\cdot 17_5$	$-\cdot 10_9$	$+\cdot 17_3$	$-\cdot 01_4$	$-\cdot 08_6$	$+\cdot 17_3$	$+\cdot 19_6$	$+\cdot 04_5$
−10 to −15	$-\cdot 07_{37}$	$-\cdot 09_4$	$-\cdot 61_2$	$-\cdot 15_5$	$+\cdot 27_5$	$-\cdot 05_7$	$+\cdot 02_5$	$+\cdot 05_5$	$+\cdot 23_4$
−15 to −20	$+\cdot 06_{32}$	$-\cdot 21_7$	$-\cdot 11_3$	$+\cdot 26_3$	$+\cdot 00_5$	$-\cdot 11_2$	$+\cdot 06_3$	$+\cdot 17_3$	$+\cdot 03_5$
−20 to −25	$+\cdot 18_{25}$	$+\cdot 35_4$	$-\cdot 33_3$	$-\cdot 28_4$	$-\cdot 18_2$	$+\cdot 08_4$	$+\cdot 22_3$	$+\cdot 12_3$	$-\cdot 20_2$
−25 to −30	$+\cdot 32_{26}$	$-1\cdot 00_1$	$-\cdot 21_1$	$-\cdot 35_2$	$-\cdot 18_2$	$+\cdot 35_4$	$+\cdot 24_6$	$-\cdot 05_3$	$-\cdot 10_2$
Below −30	$+1\cdot 12_2$	.....	.....	$-\cdot 13_1$	.....	.....	.....	$+\cdot 13_1$	.....

TABLE XX—DIFFERENCES IN RIGHT ASCENSION (O–G.C.)

Decl.	$\Delta\alpha_\delta$	$\Delta\alpha_\alpha$							
		0^h to 3^h	3^h to 6	6^{hh} to 9^h	9^h to 12^h	12^h to 15^h	15^h to 18^h	18^h to 21^h	21^h to 24^h
° °	s	s	s	s	s	s	s	s	s
+90 to +85	$-\cdot 191_{18}$	$-\cdot 295_{2}$	$+\cdot 051_{5}$	$+\cdot 074_{3}$	$+\cdot 015_{1}$	$+\cdot 116_{3}$	$-\cdot 127_{1}$	.....	$-\cdot 039_{3}$
+85 to +80	$-\cdot 074_{40}$	$-\cdot 064_{4}$	$+\cdot 101_{3}$	$+\cdot 022_{5}$	$+\cdot 039_{8}$	$+\cdot 002_{6}$	$-\cdot 008_{5}$	$-\cdot 068_{6}$	$-\cdot 010_{3}$
+80 to +75	$-\cdot 020_{20}$	$-\cdot 031_{2}$	$+\cdot 078_{2}$	$+\cdot 066_{2}$	$-\cdot 010_{2}$	$+\cdot 011_{1}$	$-\cdot 035_{5}$	$-\cdot 021_{3}$	$+\cdot 010_{3}$
+75 to +70	$-\cdot 041_{20}$	$-\cdot 063_{1}$	$+\cdot 018_{3}$	$+\cdot 027_{3}$	$+\cdot 015_{3}$	$-\cdot 014_{3}$	$-\cdot 006_{3}$	$-\cdot 021_{2}$	$-\cdot 011_{2}$
+70 to +65	$-\cdot 051_{28}$	$-\cdot 011_{4}$	$+\cdot 036_{3}$	$+\cdot 004_{3}$	$+\cdot 007_{4}$	$-\cdot 016_{3}$	$-\cdot 028_{2}$	$-\cdot 023_{4}$	$+\cdot 017_{5}$
+65 to +60	$-\cdot 038_{26}$	$+\cdot 009_{6}$	$+\cdot 011_{4}$	$-\cdot 040_{3}$	$+\cdot 037_{5}$	$-\cdot 006_{4}$	$-\cdot 014_{5}$	$+\cdot 007_{4}$	$-\cdot 022_{5}$
+60 to +55	$-\cdot 022_{47}$	$-\cdot 007_{8}$	$-\cdot 009_{6}$	$-\cdot 022_{5}$	$+\cdot 010_{7}$	$+\cdot 007_{5}$	$-\cdot 007_{5}$	$+\cdot 009_{4}$	$+\cdot 017_{7}$
+55 to +50	$-\cdot 016_{61}$	$+\cdot 011_{5}$	$-\cdot 007_{4}$	$-\cdot 011_{6}$	$+\cdot 002_{6}$	$+\cdot 020_{7}$	$-\cdot 012_{8}$	$-\cdot 010_{7}$	$+\cdot 008_{8}$
+50 to +45	$-\cdot 036_{59}$	$+\cdot 022_{7}$	$+\cdot 013_{9}$	$-\cdot 001_{8}$	$-\cdot 010_{6}$	$-\cdot 001_{8}$	$+\cdot 002_{8}$	$-\cdot 010_{9}$	$-\cdot 031_{4}$
+45 to +40	$-\cdot 028_{56}$	$+\cdot 009_{9}$	$+\cdot 009_{10}$	$-\cdot 009_{4}$	$-\cdot 008_{7}$	$-\cdot 008_{6}$	$-\cdot 022_{5}$	$-\cdot 004_{9}$	$+\cdot 020_{6}$
+40 to +35	$-\cdot 028_{65}$	$+\cdot 013_{8}$	$-\cdot 007_{8}$	$+\cdot 008_{8}$	$+\cdot 012_{8}$	$-\cdot 003_{10}$	$-\cdot 015_{7}$	$-\cdot 012_{7}$	$+\cdot 002_{9}$
+35 to +30	$-\cdot 021_{60}$	$+\cdot 004_{8}$	$+\cdot 020_{7}$	$+\cdot 001_{5}$	$-\cdot 007_{7}$	$-\cdot 001_{8}$	$-\cdot 004_{10}$	$-\cdot 016_{9}$	$+\cdot 011_{6}$
+30 to +25	$-\cdot 018_{77}$	$+\cdot 021_{8}$	$-\cdot 015_{8}$	$-\cdot 012_{18}$	$-\cdot 014_{8}$	$-\cdot 007_{10}$	$+\cdot 006_{11}$	$+\cdot 009_{9}$	$+\cdot 016_{10}$
+25 to +20	$-\cdot 019_{83}$	$+\cdot 003_{10}$	$-\cdot 014_{13}$	$-\cdot 011_{11}$	$-\cdot 007_{11}$	$+\cdot 004_{9}$	$+\cdot 006_{9}$	$+\cdot 007_{11}$	$+\cdot 024_{9}$
+20 to +15	$-\cdot 011_{84}$	$+\cdot 020_{9}$	$\cdot 000_{10}$	$-\cdot 020_{11}$	$-\cdot 002_{13}$	$-\cdot 007_{11}$	$+\cdot 006_{11}$	$-\cdot 002_{10}$	$+\cdot 014_{9}$
+15 to +10	$-\cdot 003_{91}$	$+\cdot 008_{11}$	$-\cdot 001_{11}$	$-\cdot 018_{15}$	$-\cdot 009_{11}$	$+\cdot 002_{9}$	$+\cdot 010_{11}$	$+\cdot 001_{14}$	$+\cdot 013_{9}$
+10 to + 5	$-\cdot 005_{105}$	$+\cdot 011_{14}$	$-\cdot 017_{14}$	$-\cdot 017_{14}$	$-\cdot 007_{13}$	$+\cdot 005_{11}$	$-\cdot 001_{11}$	$+\cdot 005_{12}$	$+\cdot 019_{16}$
+ 5 to 0	$-\cdot 002_{84}$	$+\cdot 004_{10}$	$+\cdot 003_{10}$	$-\cdot 027_{10}$	$-\cdot 017_{11}$	$-\cdot 016_{10}$	$+\cdot 023_{12}$	$+\cdot 018_{11}$	$+\cdot 012_{10}$
0 to − 5	$\cdot 000_{91}$	$+\cdot 005_{12}$	$-\cdot 006_{10}$	$-\cdot 019_{13}$	$-\cdot 018_{9}$	$-\cdot 004_{11}$	$+\cdot 001_{11}$	$+\cdot 011_{11}$	$+\cdot 021_{14}$
− 5 to −10	$-\cdot 002_{88}$	$+\cdot 019_{10}$	$-\cdot 015_{14}$	$-\cdot 022_{8}$	$+\cdot 002_{8}$	$+\cdot 002_{14}$	$\cdot 000_{12}$	$+\cdot 002_{11}$	$+\cdot 014_{11}$
−10 to −15	$-\cdot 009_{82}$	$-\cdot 002_{10}$	$-\cdot 005_{9}$	$-\cdot 013_{9}$	$-\cdot 002_{12}$	$+\cdot 006_{11}$	$-\cdot 003_{11}$	$+\cdot 005_{11}$	$+\cdot 016_{9}$
−15 to −20	$-\cdot 012_{83}$	$+\cdot 006_{12}$	$-\cdot 018_{9}$	$-\cdot 026_{12}$	$-\cdot 008_{9}$	$+\cdot 002_{11}$	$+\cdot 016_{9}$	$+\cdot 019_{8}$	$+\cdot 013_{13}$
−20 to −25	$-\cdot 011_{75}$	$+\cdot 005_{8}$	$-\cdot 018_{11}$	$-\cdot 017_{11}$	$-\cdot 010_{7}$	$+\cdot 009_{9}$	$+\cdot 005_{10}$	$+\cdot 008_{12}$	$+\cdot 028_{7}$
−25 to −30	$-\cdot 004_{58}$	$+\cdot 011_{5}$	$-\cdot 024_{3}$	$-\cdot 016_{5}$	$-\cdot 012_{6}$	$+\cdot 004_{6}$	$+\cdot 009_{10}$	$+\cdot 001_{16}$	$+\cdot 002_{7}$
Below −30	$-\cdot 012_{3}$	.....	.....	$-\cdot 005_{1}$	.....	$+\cdot 019_{1}$	.....	$-\cdot 015_{1}$	.....

TABLE XXI

$\Delta\alpha$ Cos δ (O–G.C.)

Decl.	$\Delta\alpha_\delta$ Cos δ	$\Delta\alpha_\alpha$ Cos δ							
		0^h to 3^h	3^h to 6^h	6^h to 9^h	9^h to 12^h	12^h to 15^h	15^h to 18^h	18^h to 21^h	21^h to 24^h
° °	s	s	s	s	s	s	s	s	s
90 to 85	$-\cdot 010_{18}$	$-\cdot 002_{2}$	$+\cdot 000_{5}$	$+\cdot 005_{3}$	$-\cdot 003_{1}$	$+\cdot 007_{3}$	$-\cdot 009_{1}$	.....	$-\cdot 004_{3}$
85 to 80	$-\cdot 009_{40}$	$-\cdot 010_{4}$	$+\cdot 013_{3}$	$+\cdot 003_{5}$	$+\cdot 005_{8}$	$-\cdot 001_{6}$	$-\cdot 002_{5}$	$-\cdot 008_{6}$	$-\cdot 001_{3}$
80 to 75	$-\cdot 004_{20}$	$-\cdot 007_{2}$	$+\cdot 018_{2}$	$+\cdot 013_{2}$	$-\cdot 003_{2}$	$+\cdot 002_{1}$	$-\cdot 008_{5}$	$-\cdot 006_{2}$	$+\cdot 002_{3}$
75 to 70	$-\cdot 013_{20}$	$-\cdot 018_{1}$	$+\cdot 005_{3}$	$+\cdot 009_{3}$	$+\cdot 005_{3}$	$-\cdot 003_{3}$	$-\cdot 001_{3}$	$-\cdot 007_{2}$	$-\cdot 003_{3}$
70 to 65	$-\cdot 020_{28}$	$-\cdot 004_{4}$	$+\cdot 014_{3}$	$+\cdot 001_{3}$	$+\cdot 002_{4}$	$-\cdot 006_{3}$	$-\cdot 008_{2}$	$-\cdot 009_{4}$	$+\cdot 006_{5}$
65 to 60	$-\cdot 018_{36}$	$+\cdot 004_{6}$	$+\cdot 006_{4}$	$-\cdot 019_{3}$	$+\cdot 017_{5}$	$-\cdot 002_{4}$	$-\cdot 006_{5}$	$+\cdot 004_{4}$	$-\cdot 009_{5}$

TABLE XXII—DIFFERENCES IN DECLINATION (O–G.C.)

Decl.	$\Delta\delta_\delta$	$\Delta\delta_\alpha$							
		0^h to 3^h	3^h to 6^h	6^h to 9^h	9^h to 12^h	12^h to 15^h	15^h to 18^h	18^h to 21^h	21^h to 24^h
° °	″	″	″	″	″	″	″	″	″
+90 to +85	$-\cdot01_{13}$	$-\cdot03_{2}$	$-\cdot16_{5}$	$-\cdot01_{3}$	$+\cdot32_{1}$	$+\cdot33_{3}$	$+\cdot28_{1}$	.....	$-\cdot14_{3}$
+85 to +80	$-\cdot01_{40}$	$-\cdot14_{4}$	$-\cdot31_{3}$	$-\cdot13_{5}$	$+\cdot09_{8}$	$-\cdot13_{6}$	$+\cdot23_{5}$	$+\cdot30_{6}$	$-\cdot21_{3}$
+80 to +75	$-\cdot01_{20}$	$+\cdot03_{2}$	$-\cdot34_{2}$	$-\cdot35_{2}$	$-\cdot15_{2}$	$+\cdot17_{1}$	$+\cdot33_{5}$	$+\cdot08_{3}$	$-\cdot17_{3}$
+75 to +70	$-\cdot01_{20}$	$-\cdot59_{1}$	$+\cdot02_{3}$	$-\cdot15_{3}$	$-\cdot11_{3}$	$+\cdot34_{3}$	$+\cdot19_{3}$	$-\cdot35_{2}$	$+\cdot21_{2}$
+70 to +65	$+\cdot09_{28}$	$-\cdot11_{4}$	$-\cdot37_{3}$	$-\cdot01_{3}$	$+\cdot14_{4}$	$-\cdot32_{3}$	$+\cdot61_{2}$	$+\cdot29_{4}$	$-\cdot07_{5}$
+65 to +60	$+\cdot13_{36}$	$-\cdot13_{6}$	$-\cdot21_{4}$	$-\cdot14_{2}$	$-\cdot08_{5}$	$+\cdot11_{4}$	$+\cdot44_{5}$	$+\cdot32_{4}$	$-\cdot30_{5}$
+60 to +55	$+\cdot20_{47}$	$+\cdot11_{3}$	$-\cdot33_{6}$	$-\cdot32_{5}$	$+\cdot11_{7}$	$+\cdot13_{5}$	$+\cdot30_{5}$	$-\cdot11_{4}$	$+\cdot02_{7}$
+55 to +50	$+\cdot18_{51}$	$-\cdot26_{5}$	$-\cdot46_{4}$	$-\cdot35_{6}$	$+\cdot11_{6}$	$-\cdot04_{7}$	$+\cdot43_{6}$	$+\cdot10_{7}$	$+\cdot09_{8}$
+50 to +45	$+\cdot12_{60}$	$-\cdot06_{7}$	$-\cdot07_{9}$	$-\cdot16_{8}$	$+\cdot11_{6}$	$+\cdot16_{8}$	$+\cdot21_{8}$	$-\cdot11_{9}$	$-\cdot10_{4}$
+45 to +40	$-\cdot08_{56}$	$+\cdot10_{9}$	$-\cdot21_{10}$	$-\cdot08_{4}$	$+\cdot29_{7}$	$+\cdot17_{6}$	$+\cdot04_{5}$	$-\cdot03_{9}$	$-\cdot24_{8}$
+40 to +35	$+\cdot05_{65}$	$-\cdot09_{8}$	$-\cdot20_{8}$	$-\cdot11_{8}$	$-\cdot02_{8}$	$+\cdot15_{10}$	$+\cdot18_{7}$	$+\cdot10_{7}$	$\cdot00_{9}$
+35 to +30	$+\cdot05_{60}$	$-\cdot09_{8}$	$-\cdot12_{7}$	$+\cdot19_{5}$	$+\cdot03_{7}$	$-\cdot10_{8}$	$+\cdot22_{10}$	$\cdot00_{9}$	$-\cdot16_{6}$
+30 to +25	$+\cdot03_{77}$	$-\cdot27_{8}$	$-\cdot12_{8}$	$-\cdot16_{13}$	$+\cdot28_{6}$	$-\cdot03_{10}$	$+\cdot21_{11}$	$+\cdot10_{9}$	$\cdot00_{10}$
+25 to +20	$-\cdot09_{83}$	$-\cdot21_{10}$	$-\cdot13_{12}$	$-\cdot18_{11}$	$+\cdot17_{11}$	$+\cdot04_{9}$	$+\cdot34_{9}$	$+\cdot01_{11}$	$-\cdot01_{9}$
+20 to +15	$\cdot00_{85}$	$+\cdot01_{9}$	$-\cdot04_{11}$	$-\cdot13_{11}$	$-\cdot20_{12}$	$+\cdot10_{11}$	$+\cdot33_{11}$	$+\cdot01_{10}$	$-\cdot06_{8}$
+15 to +10	$+\cdot02_{92}$	$-\cdot17_{11}$	$-\cdot28_{11}$	$-\cdot03_{15}$	$-\cdot01_{12}$	$+\cdot16_{9}$	$+\cdot29_{11}$	$+\cdot11_{14}$	$-\cdot02_{9}$
+10 to + 5	$-\cdot06_{106}$	$-\cdot19_{14}$	$-\cdot13_{14}$	$-\cdot02_{15}$	$\cdot00_{13}$	$-\cdot07_{11}$	$+\cdot29_{11}$	$+\cdot16_{12}$	$+\cdot02_{16}$
+ 5 to − 0	$-\cdot07_{84}$	$-\cdot12_{10}$	$-\cdot35_{10}$	$+\cdot01_{10}$	$-\cdot07_{11}$	$+\cdot14_{10}$	$+\cdot26_{12}$	$+\cdot08_{11}$	$-\cdot02_{10}$
0 to − 5	$-\cdot01_{91}$	$-\cdot16_{12}$	$-\cdot03_{10}$	$-\cdot07_{13}$	$-\cdot06_{9}$	$+\cdot05_{11}$	$+\cdot25_{11}$	$+\cdot09_{11}$	$-\cdot06_{14}$
− 5 to −10	$-\cdot04_{90}$	$-\cdot33_{10}$	$-\cdot14_{15}$	$+\cdot24_{9}$	$-\cdot18_{8}$	$+\cdot08_{14}$	$+\cdot18_{12}$	$+\cdot11_{11}$	$+\cdot03_{11}$
−10 to −15	$\cdot00_{82}$	$-\cdot23_{10}$	$-\cdot48_{9}$	$-\cdot16_{10}$	$+\cdot23_{12}$	$+\cdot08_{11}$	$+\cdot32_{11}$	$+\cdot08_{11}$	$+\cdot04_{9}$
−15 to −20	$+\cdot08_{82}$	$-\cdot23_{12}$	$-\cdot24_{9}$	$-\cdot01_{12}$	$+\cdot15_{9}$	$+\cdot15_{11}$	$+\cdot12_{9}$	$-\cdot04_{8}$	$+\cdot07_{13}$
−20 to −25	$+\cdot23_{75}$	$-\cdot03_{8}$	$-\cdot51_{11}$	$+\cdot31_{11}$	$-\cdot08_{7}$	$+\cdot21_{9}$	$+\cdot32_{10}$	$-\cdot07_{12}$	$-\cdot15_{7}$
−25 to −30	$+\cdot40_{88}$	$-\cdot40_{5}$	$-\cdot46_{3}$	$-\cdot25_{6}$	$-\cdot08_{6}$	$+\cdot12_{6}$	$+\cdot30_{10}$	$+\cdot11_{16}$	$-\cdot06_{7}$
Below −30	$+\cdot88_{3}$	.....	.....	$+\cdot35_{1}$	.....	$-1\cdot05_{1}$	.....	$+\cdot70_{1}$	.....

TABLE XXIII—FRAME CORRECTION

SETTING	CORRECTION	DECLINATION	
		CL. E.	CL. W.
0°	+0″.0057	Nadir	
90°	− ·0053	N	S
135°	− ·0020	90°	0°
180°	− ·0010	45°	45°
225°	·0000	0°	90°
270°	− ·0027	S	N

This correction would give a correction at the zenith of only ˢ.000 to clamp east and −ˢ.001 to clamp west.

The micrometer was examined with the personal equation machine to determine if there was a change of collimation with the speed of the micrometer drive in following a star. No shift was determined.

The clamp differences in declination were also compared. $\Delta\delta$ (CL.W. – CL.E.) for this program was +0″.58 as compared with the previous program of +0″.42. No frame correction was determined in this co-ordinate.

CATALOGUE OF 1,525 STARS
OBSERVED IN THE YEARS 1935 TO 1950
REDUCED WITHOUT PROPER MOTION
TO THE
EQUINOX 1950·0

92726—24

EXPLANATION OF THE SEPARATE COLUMNS

Column 1. The number of the star in this catalogue, the stars being arranged in order of right ascension.

Column 2. The B.D. or C.D. zone and number.

Column 3. The visual magnitude and spectral type as obtained from G.C. and Henry Draper. The magnitudes for variable stars and composite spectral types are given in footnotes.

Columns 4 and 8. The mean right ascension and declination as determined at Ottawa, reduced to the equinox 1950·0 without proper motion.

Columns 5 and 6, 9 and 10. The precession and secular variation for the stars are given on the basis of 100 years. The values were obtained from other catalogues and are based on Newcomb's precession tables.

Columns 7 and 8. Proper motion in right ascension and declination per 100 years. The proper motions were taken from the FK3, G.C. and the First Greenwich Catalogue of Stars 1925·0.

Column 12. The numbers indicate the number of observations in right ascension and declination respectively.

Columns 13 and 14. Mean epoch of observations in right ascension and declination respectively. Where only one figure is given it applies to both.

No.	BD or CD No.		M + Sp.	R.A. 1950	Precession 1st Term	Precession 2nd Term	P.M.	Dec. 1950	Precession 1st Term	Precession 2nd Term	P.M.	No. Obs.		Epoch 1900+	
	°			h m s	s	s	s	° ′ ″	″	″	″				
1	−18	6417	4·62 A 0	0 1 10·756	+307·11	−0·38	+0·16	−17 36 51·59	+2004·2	−0·6	−0·2	8		41·75	
2	+13	5201	7·26 F 0	0 1 21·824	+307·52	+0·48	+0·71	+14 6 2·74	+2004·3	−0·6	−1·1	7		38·87	
3	+26	4744	6·57 G 5	0 2 26·517	+308·07	+0·88	+0·50	+27 23 47·62	+2004·1	−0·6	−0·5	6	7	39·86	39·30
4	+44	4550	6·51 A 0	0 2 35·038	+308·83	+1·60	−0·15	+44 57 3·77	+2004·1	−0·7	−1·7	7	6	40·30	40·37
5	+39	5219	6·71 G 5	0 3 29·313	+309·04	+1·38	+0·10	+40 8 24·73	+2004·0	−0·8	−0·5	6	8	42·52	41·37
6	−23	4	6·06 F 0	0 4 16·639	+306·25	−0·54	+0·73	−23 23 6·42	+2003·9	−0·8	−4·0	8	7	46·65	46·64
7	− 3	2	6·33 B 8	0 5 10·431	+307·18	+0·04	+0·14	− 2 49 37·58	+2003·7	−1·0	+0·3	7	7	42·13	41·69
8	+28	4	2·15 A 0p	0 5 47·766	+309·19	+0·94	+1·03	+28 48 53·46	+2003·6	−1·0	−15·9	6		41·35	
9	+58	3	2·42 F 5	0 6 29·200	+313·60	+2·68	+6·75	+58 52 27·98	+2003·4	−1·1	−17·8	6	7	42·18	42·14
10	+16	3	7·17 G 0	0 6 44·910	+308·55	+0·58	−0·05	+17 15 27·71	+2003·4	−1·1	−13·5	6		43·18	
11	+56	11	6·54 B 8	0 7 51·672	+314·36	+2·51	+0·27	+56 53 15·02	+2003·1	−1·2	+ 0·9	6	7	42·83	42·43
12	−13	13	5·94 K 0	0 8 9·142	+306·24	−0·22	+1·04	−12 51 28·31	+2003·0	−1·2	− 3·2	6		43·81	
13	+65	13	7·15 A 0	0 9 9·623	+319·24	+3·70	+0·21	+65 50 54·37	+2002·7	−1·4	+ 0·7	11	12	47·03	47·14
14	+14	14	2·87 B 2	0 10 39·437	+308·98	+0·52	+0·01	+14 54 20·36	+2002·2	−1·5	− 0·6	19	47	46·94	43·19
15	+ 3	26	7·02 A 0	0 13 23·126	+307·87	+0·24	+0·06	+ 3 58 24·86	+2000·8	−1·8	− 1·3	8		46·74	
16	+22	34	7·18 K 0	0 14 19·108	+310·86	+0·78	+0·26	+22 58 43·13	+2000·3	−1·8	− 1·2	6		42·18	
17	+11	34	6·63 G 5	0 15 21·489	+309·31	+0·47	−0·13	+12 29 38·84	+1999·8	−2·0	− 1·2	5		43·45	
18	+30	35	5·80 A 0	0 16 1·166	+312·99	+1·08	+0·47	+31 14 23·20	+1999·4	−2·0	+ 0·4	6		43·87	
19	+42	48	6·04 B 9	0 16 3·462	+316·21	+1·64	+0·14	+43 30 48·98	+1999·4	−2·0	− 0·2	6	5	41·88	42·48
20	− 8	38	6·50 G 0	0 16 7·290	+305·95	−0·08	+2·75	− 8 19 42·50	+1999·3	−2·0	−13·4	3		45·15	
21	− 9	48	3·75 K 0	0 16 52·781	+305·75	−0·10	−0·12	− 9 06 3·14	+1998·9	−2·0	− 2·7	7	15	47·82	45·59
22	−18	41	6·88 K 0	0 17 30·842	+304·02	−0·33	+0·50	−17 58 39·81	+1998·4	−2·1	+ 0·9	4	5	42·79	43·58
23	+52	61	5·72 B 9	0 22 23·361	+324·48	+2·33	+0·23	+52 46 11·89	+1994·8	−2·8	− 0·4	8	7	40·88	40·89
24	−12	72	7·54 M b	0 25 28·237	+304·20	−0·14	+0·30	−11 56 6·24	+1991·9	−2·9	− 1·5	7	7	46·35	45·66
25	+15	63	6·46 K 2	0 25 36·569	+311·65	+0·60	+0·11	+16 10 7·76	+1991·7	−3·0	− 1·1	6	7	38·56	38·16
26	+ 9	47	6·02 F 2	0 25 44·742	+309·95	+0·43	+0·19	+ 9 55 0·28	+1991·6	−3·0	−20·5	6		40·57	
27	−21	57	6·41 G 0	0 25 50·738	+301·67	−0·37	−0·83	−20 36 35·12	+1991·5	−2·9	−10·5	4	6	44·33	43·84
28	+63	53	7·16 A 0	0 27 24·722	+340·71	+3·94	+0·25	+64 28 22·54	+1990·0	−3·4	+ 0·8	8	11	44·16	44·38
29	+28	75	5·26 F 0	0 27 28·642	+316·35	+1·06	+0·28	+29 28 34·46	+1989·9	−3·2	− 5·3	6	7	38·57	38·76
30	− 4	54	6·05 K 5	0 27 29·155	+306·14	+0·06	+0·06	− 4 14 0·37	+1989·9	−3·1	− 0·3	14	26	48·65	47·40
31	+38	68	7·05 F 0	0 30 2·208	+321·25	+1·46	−0·04	+38 34 6·22	+1987·0	−3·5	− 1·8	7		42·28	
32	−26	160	6·87 K 0	0 30 10·007	+298·91	−0·49	−0·03	−25 38 4·41	+1987·0	−3·3	− 4·4	6		47·42	
33	− 4	62	5·24 G 0	0 32 40·047	+306·04	+0·08	+2·74	− 3 52 4·27	+1983·9	−3·6	− 2·0	2	19	37·85	37·88
34	+14	76	5·86 B 3	0 34 10·758	+312·63	+0·60	+0·01	+14 57 24·66	+1982·0	−3·8	− 1·6	8	9	42·28	42·25
35	+ 2	80	6·58 K 0	0 34 55·814	+308·34	+0·26	+0·60	+ 2 51 40·94	+1981·0	−3·8	− 5·5	7		40·18	
36	+81	13	6·40 F 8	0 35 54·488	+459·90	+21·68	−5·46	+82 13 5·30	+1979·7	−5·6	+ 9·1	11	12	46·93	46·96
37	+48	192	5·72 K 2	0 36 23·380	+331·70	+2·16	+0·04	+49 4 47·94	+1979·1	−4·2	− 1·0	5	5	38·71	40·11
38	+20	85	6·08 K 0	0 36 45·810	+315·51	+0·79	−3·33	+20 58 56·24	+1978·6	−4·1	−36·9	6	9	38·07	37·55
39	+55	139	* K 0	0 37 39·276	+340·05	+2·86	+0·60	+56 15 48·88	+1977·3	−4·5	− 2·8	10	8	45·93	46·08
40	−17	109	6·46 G 5	0 37 58·062	+300·68	−0·22	+0·23	−16 47 25·73	+1976·8	−4·0	− 3·4	6		46·49	
41	− 5	101	6·12 G 5	0 38 9·612	+305·54	+0·08	−0·12	− 4 37 33·86	+1976·6	−4·1	− 1·4	7		40·61	
42	−18	115	2·24 K 0	0 41 4·657	+299·46	−0·26	+1·65	+18 15 39·17	+1972·2	−4·4	+ 4·0	8		41·39	
43	+32	122	7·02 A 5	0 41 10·432	+322·85	+1·26	+0·03	+33 2 12·75	+1972·0	−4·6	+ 1·4	7	9	37·33	37·91
44	+58	101	6·49 G 5	0 43 46·553	+350·06	+3·36	−0·11	+59 18 6·01	+1967·8	−5·3	+ 0·3	6		41·20	
45	+ 5	104	6·20 G 5	0 44 48·300	+310·27	+0·39	+0·06	+ 6 28 6·38	+1966·1	−4·8	− 1·1	6		47·13	
46	+25	118	7·06 K 0	0 45 4·255	+320·07	+0·99	+0·77	+26 1 7·23	+1965·6	−5·0	+ 1·0	6		45·15	
47	−22	134	5·45 B 9	0 45 32·604	+296·68	−0·33	+0·17	−21 59 41·26	+1964·9	−4·7	− 0·9	5	4	46·00	45·56
48	+ 6	107	4·55 K 5	0 46 5·090	+310·76	+0·41	+0·55	+ 7 18 47·53	+1963·9	−5·0	− 4·5	8	23	47·29	44·44
49	+16	76	5·23 F 5	0 46 20·802	+315·37	+0·68	−0·02	+16 40 15·89	+1963·4	−5·0	−19·7	6		48·14	
50	−14	145	5·84 K 2	0 46 54·881	+300·64	−0·12	+0·70	−13 49 56·10	+1962·4	−4·9	− 9·2	3		47·84	

Position 1950 + T = Position 1950 + T (1st Term) + T^2 (2nd Term) + T′ (P.M.). T in centuries from 1950·0, T′ in centuries from epoch.

*39 2^m 1 to 2^m 6

No.	BD or CD No.		M + Sp.		R.A. 1950			Precession 1st Term	Precession 2nd Term	P.M.	Dec. 1950			Precession 1st Term	Precession 2nd Term	P.M.	No. Obs.		Epoch 1900+	
	°				h	m	s	s	s	s	°	′	″	″	″	″				
51	− 1	104	6·80	K 0	0	47	21·173	+307·09	+ 0·21	+0·21	− 0	29	46·39	+1961·6	−5·0	+ 1·4	4		48·04	
52	+44	176	6·12	A 0	0	47	30·082	+334·56	+ 1·92	+0·64	+44	43	48·63	+1961·3	−5·4	+ 0·5	6		47·17	
53	− 1	114	4·92	K 0	0	50	27·030	+306·61	+ 0·20	+0·03	− 1	24	55·53	+1955·8	−5·3	− 1·3	10	24	48·22	45·74
54	+36	148	6·13	K 0	0	50	42·924	+329·54	+ 1·49	+0·08	+37	8	51·78	+1955·4	−5·7	− 4·5	7	6	44·84	44·51
55	+13	127	6·83	G 5	0	53	31·457	+314·85	+ 0·61	0·00	+13	40	53·60	+1949·9	−5·7	− 0·6	5	6	44·00	43·98
56	+59	144	*	B 0p	0	53	40·218	+362·01	+ 3·70	+0·28	+60	26	47·70	+1949·6	−6·6	− 0·2	6		41·77	
57	+37	175	3·94	A 2	0	53	58·093	+331·88	+ 1·56	+1·27	+38	13	42·63	+1948·9	−6·1	+ 3·7	6	7	45·31	44·56
58	+ 0	149	7·29	G 5	0	55	5·397	+308·16	+ 0·28	+0·07	+ 1	30	55·19	+1946·6	−5·8	+ 1·3	6		45·79	
59	+20	131	6·41	A 0	0	55	38·772	+319·74	+ 0·84	−0·06	+21	8	4·62	+1945·5	−6·0	− 0·1	6	7	44·03	44·01
60	− 6	176	6·70	K 0	0	56	13·724	+303·84	+ 0·10	+0·03	− 6	9	5·61	+1944·2	−5·8	− 7·3	6		46·68	
61	+68	64	6·67	B 9	0	58	11·010	+395·16	+ 6·18	−0·04	+69	5	23·22	+1940·0	−7·6	− 0·1	8	8	47·97	47·05
62	−17	180	6·58	G 5	0	59	9·756	+297·20	− 0·15	+0·55	−16	31	59·66	+1937·8	−6·0	− 7·1	5		47·61	
63	+ 7	153	4·45	K 0	1	0	20·696	+311·98	+ 0·46	−0·54	+ 7	37	16·87	+1935·1	−6·3	+ 3·0	7	12	48·10	45·78
64	+51	220	6·27	K 2	1	1	5·248	+352·76	+ 2·66	+0·10	+52	14	5·66	+1933·4	−7·2	− 5·6	6		48·34	
65	+85	19	4·52	K 0	1	1	29·904	+812·81	+88·24	+7·79	+85	59	24·30	+1932·6	−16·2	− 0·6	93	91	39·64	39·98
66	+28	174	6·08	F 5	1	1	43·236	+327·36	+ 1·18	+0·62	+29	23	32·97	+1932·0	− 6·8	−11·3	5		48·02	
67	−24	484	6·29	G 5	1	3	42·453	+290·80	− 0·31	−0·19	−24	15	32·84	+1927·3	− 6·2	− 4·2	7	6	47·61	47·58
68	+31	185	6·29	F 2	1	5	14·840	+330·55	+ 1·28	+1·56	+31	44	45·32	+1923·6	− 7·2	− 3·4	6		47·42	
69	−10	238	5·87	F 2	1	5	15·233	+300·67	+ 0·02	+1·00	−10	3	9·91	+1923·5	− 6·6	+ 2·3	4	5	47·76	47·97
70	+19	185	5·63	A 2	1	5	15·910	+321·34	+ 0·85	+0·60	+20	28	25·36	+1923·5	− 7·0	− 9·2	6		47·53	
71	+ 9	132	6·90	M a	1	5	44·785	+313·75	+ 0·52	−0·05	+ 9	38	29·46	+1922·4	− 6·9	+ 0·7	6		45·21	
72	−10	240	3·60	K 0	1	6	4·357	+300·32	+ 0·02	+1·47	−10	26	47·53	+1921·5	− 6·6	−12·8	4	21	45·84	40·77
73	+34	198	2·37	M a	1	6	55·348	+334·62	+ 1·46	+1·46	+35	21	22·80	+1919·4	− 7·4	−11·2	6		43·74	
74	+45	291	6·86	K 5	1	8	16·054	+347·82	+ 2·13	+0·02	+45	55	7·53	+1916·0	− 7·8	− 2·5	5	6	40·90	40·58
75	+64	127	5·49	B 8	1	8	24·549	+390·65	+ 4·92	+0·38	+64	45	12·59	+1915·6	− 8·8	− 1·1	5	9	48·13	47·36
76	− 7	196	6·93	G 5	1	10	16·663	+302·34	+ 0·11	−0·40	− 7	2	53·27	+1910·8	− 7·0	− 1·1	6	6	43·96	42·32
77	− 1	162	5·82	F 5	1	12	15·894	+306·43	+ 0·26	−0·11	− 1	14	28·78	+1905·5	− 7·3	+21·0	8		41·92	
78	+38	229	6·55	B 9	1	12	25·108	+342·12	+ 1·70	−0·14	+39	13	1·96	+1899·5	− 8·4	+ 0·5	8	6	41·99	42·05
79	+43	262	7·25	K 5	1	14	46·543	+349·22	+ 2·04	+0·05	+44	22	7·57	+1898·5	− 8·6	− 0·5	6		46·16	
80	+ 2	185	5·28	A 2	1	15	13·016	+309·85	+ 0·37	−0·35	+ 3	21	6·08	+1897·3	− 7·6	− 1·9	9	30	48·19	42·95
81	+57	260	5·25	F5p	1	16	55·113	+377·67	+ 3·56	0·00	+51	58	10·45	+1892·4	− 9·4	+ 0·1		45	6·52	
82	−16	223	6·75	G 0	1	17	30·190	+294·56	− 0·08	+0·38	−16	4	29·25	+1890·8	− 7·6	− 9·4	6		42·35	
83	+21	178	7·24	K 5	1	18	31·861	+325·57	+ 9·4	+0·08	+22	6	45·94	+1887·7	− 8·4	+ 0·6	6		43·26	
84	+10	168	6·89	F 0	1	18	40·666	+316·30	+ 0·60	+0·36	+11	16	29·95	+1887·3	− 8·2	+ 1·5	7	7	40·63	41·23
85	− 8	244	3·83	K 0	1	21	31·386	+300·42	+ 0·10	−0·54	− 8	26	28·42	+1878·8	− 8·0	−21·5	18	32	46·24	44·18
86	− 3	195	6·38	G 5	1	22	16·135	+304·78	+ 0·23	+0·11	− 3	6	29·36	+1876·5	− 8·2	− 2·9	6		44·16	
87	+59	248	2·80	A 5	1	22	31·317	+388·80	+ 3·99	+3·96	+59	58	34·82	+1875·7	−10·4	− 4·6	6	5	45·64	45·23
88	+26	239	6·87	K 0	1	23	57·585	+331·71	+ 1·12	−0·06	+26	59	17·49	+1871·3	− 9·0	− 4·9	7		40·60	
89	+18	189	5·63	K 0	1	23	59·296	+323·80	+ 8·4	+0·31	+18	58	55·31	+1871·2	− 8·8	− 5·7	6	7	43·23	42·77
90	−13	262	5·68	F 0	1	24	23·451	+295·94	+ 0·01	+0·12	−13	18	57·43	+1869·9	− 8·2	+ 1·2	9		44·93	
91	−26	491	6·55	K 0	1	27	21·035	+283·22	− 0·24	+0·25	−25	52	32·72	+1860·4	− 8·1	+ 2·0	6	7	45·97	46·38
92	+14	231	3·72	G 5	1	28	48·212	+320·94	+ 7·20	+0·18	+15	5	19·15	+1855·7	− 9·2	− 0·3	13	37	46·25	43·02
93	+34	265	6·28	B 8	1	29	16·037	+342·25	+ 1·48	−0·10	+34	32	35·72	+1854·1	− 9·8	− 0·1	7	8	45·79	46·03
94	+54	315	7·17	K 5	1	30	15·635	+379·72	+ 3·17	−0·06	+54	41	19·23	+1850·9	−11·0	+ 1·9	6		45·98	
95	− 7	256	5·88	G 0	1	31	11·733	+300·71	+ 0·16	+1·20	− 7	16	48·76	+1847·7	− 8·8	− 7·5	6	7	44·65	44·01
96	+13	240	6·20	B 9	1	33	5·737	+320·89	+ 7·10	+0·02	+14	24	23·14	+1841·1	− 9·6	− 0·9	6	7	37·39	38·18
97	+47	460	6·17	K 0	1	33	23·026	+367·11	+ 2·46	−0·15	+48	28	5·27	+1840·2	−11·0	− 1·6	5	6	41·76	42·14
98	−16	270	5·48	K 0	1	33	32·577	+292·46	− 0·02	+0·11	−15	39	19·90	+1839·6	− 8·8	+ 2·2	5	6	45·01	44·00
99	+ 2	264	6·86	K 2	1	35	52·613	+328·33	+ 0·93	+0·36	+21	8	40·48	+1831·4	−10·2	− 0·3	5	6	44·90	45·36
100	+77	58	6·62	B 9	1	36	9·805	+557·33	+16·74	+0·54	+77	42	58·36	+1830·4	−17·0	− 0·7	10	12	42·17	42·24

Position 1950 + T = Position 1950 + T (1st Term) + T² (2nd Term) + T′ (P.M.). T in centuries from 1950·0, T′ in centuries from epoch.

*56 1 m 6 to 2 m 3.

No.	BD or CD No.		M + Sp.	R.A. 1950	Precession 1st Term	Precession 2nd Term	P.M.	Dec. 1950	Precession 1st Term	Precession 2nd Term	P.M.	No. Obs.	Epoch 1900+
	°			h m s	s	s	s	° ′ ″	″	″	″		
101	+39	378	4·90 B 8	1 37 37·072	+354·19	+ 1·84	+ 0·11	+40 19 29·34	+1825·2	−11·0	− 2·3	6	44·97
102	+ 4	293	4·68 K 0	1 38 49·587	+312·44	+ 0·46	− 0·17	+ 5 14 6·49	+1820·8	− 9·9	+ 0·7	8 24	42·38 40·48
103	− 4	260	5·27 G 5	1 40 11·682	+303·43	+ 0·25	− 0·01	− 3 56 29·46	+1815·8	− 9·8	− 3·2	6 5	48·14 47·99
104	+44	354	6·46 K 0	1 40 13·175	+364·05	+ 2·19	+ 1·35	+45 4 16·18	+1815·7	−11·7	− 1·5	4 5	48·33 48·04
105	−16	295	3·65 K 0	1 41 44·945	+290·65	0·00	−11·92	−16 12 2·35	+1810·0	− 9·5	+85·9	3	47·37
106	+ 8	273	4·50 K 0	1 42 44·867	+316·41	+ 0·57	+ 0·48	+ 8 54 23·39	+1806·2	−10·4	+ 5·4	3 6	36·59 37·46
107	+63	238	5·74 K 0	1 44 6·029	+425·47	+ 5·10	+ 8·76	+63 36 25·08	+1801·0	−14·0	−24·6	8 11	46·49 46·88
108	−14	335	6·76 B 9	1 44 31·955	+292·51	+ 0·05	+ 0·25	−14 8 17·22	+1799·4	− 9·8	+ 0·8	4	45·08
109	−21	300	6·69 K 0	1 45 16·462	+284·47	− 0·08	+ 0·22	−21 5 36·75	+1796·5	− 9·6	− 4·0	6 5	47·57 47·53
110	+16	203	5·73 A 0	1 45 27·891	+325·13	+ 0·80	+ 0·34	+16 42 27·00	+1795·7	−11·0	− 3·0	3 4	41·21 40·92
111	+25	305	6·73 B 8	1 46 38·404	+336·86	+ 1·13	− 0·03	+26 13 29·20	+1791·2	−11·4	− 0·2	5	44·28
112	+74	84	6·92 F 5	1 47 14·869	+537·75	+13·04	+ 1·94	+75 20 34·75	+1788·8	−18·1	− 3·3	6	48·31
113	+88	8	2·12 F 8	1 48 45·465	+3910·65	+1914·97	+17·78	+89 1 43·90	+1782·6	−130·7	− 0·5	14 33	37·61 37·50
114	−11	359	3·92 K 0	1 48 59·429	+295·90	+ 0·13	+ 0·25	−10 34 53·00	+1781·9	−10·2	− 3·3	5 16	39·75 41·43
115	+80	58	7·60 K 0	1 50 11·508	+683·26	+28·04	+ 4·84	+80 39 52·41	+1777·0	−23·4	− 8·3	13 13	46·66 46·25
116	+62	320	3·44 B 3	1 50 46·373	+431·47	+ 5·11	+ 0·40	+63 25 29·69	+1774·6	−15·0	− 1·7	12 18	46·93 47·39
117	+ 2	290	4·84 K 0	1 50 57·820	+310·52	+ 0·43	+ 0·14	+ 2 56 28·73	+1773·9	−10·9	+ 2·8	5 13	41·47 42·56
118	+ 8	292	7·05 M a	1 51 43·554	+316·72	+ 0·57	+ 0·08	+ 8 32 9·09	+1770·8	−11·2	+ 0·4	4	48·35
119	+20	306	2·72 A 5	1 51 52·311	+330·83	+ 0·92	+ 0·68	+20 33 52·70	+1770·2	−11·8	−10·8	5 15	48·29 42·40
120	+67	169	5·03 B 8	1 52 4·836	+466·20	+ 7·12	+ 0·22	+68 26 26·50	+1769·3	−16·4	− 0·8	10 11	45·96 46·08
121	+30	310	7·21 M b	1 55 10·663	+345·83	+ 1·34	− 0·25	+30 53 31·14	+1756·4	−12·5	− 3·6	6	38·53
122	+11	261	6·14 A 2	1 56 44·977	+321·24	+ 0·67	+ 0·02	+12 3 10·99	+1749·8	−11·8	− 3·4	7	42·47
123	+59	376	6·74 A 0	1 57 17·331	+419·38	+ 4·20	+ 0·72	+59 43 5·56	+1747·4	−15·3	− 3·1	4 7	46·80 44·29
124	+ 2	311	5·84 G 0	1 57 32·830	+310·60	+ 0·44	+ 1·54	+ 2 51 32·42	+1746·3	−11·5	−24·5	6	44·66
125	−21	358	4·18 M a	1 57 38·847	+281·72	− 0·05	+ 0·93	−21 19 9·49	+1745·9	−10·4	− 1·6	7	46·59
126	− 9	380	5·72 M b	1 57 57·786	+297·18	+ 0·18	+ 0·63	− 8 45 54·75	+1744·6	−11·1	− 0·5	5 6	45·12 43·92
127	+53	439	4·99 B 8	1 58 57·268	+399·39	+ 3·23	+ 0·37	+54 14 49·24	+1740·3	−14·8	+ 0·3	6	46·65
128	−24	872	6·51 K 0	2 0 33·245	+277·28	− 0·08	− 0·20	−24 7 34·05	+1733·3	−10·5	− 3·4	5 6	44·11 42·78
129	− 0	307	5·56 A 5	2 0 37·556	+307·19	+ 0·38	+ 0·51	− 0 6 43·11	+1733·0	−11·6	+ 2·2	4 5	38·45 39·57
130	+41	395	2·28 K 0	2 0 49·071	+368·05	+ 1·99	+ 0·44	+42 5 27·45	+1732·1	−13·9	− 4·7	5 6	41·93 41·62
131	−18	356	7·30 K 5	2 1 30·991	+285·70	+ 0·02	+ 0·04	−17 45 11·22	+1729·1	−10·9	− 1·3	7	44·71
132	+22	306	2·23 K 2	2 4 20·772	+336·93	+ 1·03	+ 1·38	+23 13 38·02	+1716·4	−13·0	−14·4	5 7	40·96 40·13
133	+37	486	4·77 A 2	2 5 27·507	+360·93	+ 1·69	+ 1·33	+37 37 22·82	+1711·3	−14·0	− 3·8	8 9	40·02 40·77
134	−28	675	7·22 A 5	2 5 53·085	+270·54	− 0·12	+ 0·52	−27 48 30·10	+1709·4	−10·7	− 1·3	2	37·43
135	+34	381	3·08 A 5	2 6 33·478	+355·95	+ 1·54	+ 1·19	+34 45 6·29	+1706·4	−14·0	− 3·8	7	43·96
136	−13	400	7·30 A 0	2 8 20·125	+290·73	+ 0·12	+ 0·03	−13 9 41·47	+1698·2	−11·6	− 1·0	6	42·92
137	+ 7	347	5·74 G 0	2 8 42·526	+317·76	+ 0·58	− 0·95	+ 8 20 12·11	+1696·4	−12·7	−10·9	5 6	42·51 42·10
138	+82	51	6·86 K 0	2 8 51·600	+916·39	+52·2	+ 3·93	+83 19 44·90	+1695·6	+36·0	− 4·1	27 28	47·06 46·86
139	+29	371	5·43 G 0	2 9 27·772	+348·74	+ 1·30	− 0·49	+30 4 11·50	+1692·9	−14·0	− 6·1	6	42·59
140	+43	447	5·08 K 0	2 10 4·459	+376·69	+ 2·14	− 0·21	+43 59 53·19	+1690·0	−15·1	− 1·0	7 8	43·83 44·20
141	+ 8	345	4·54 G 5	2 10 20·771	+318·23	+ 0·59	− 0·16	+ 8 36 47·22	+1688·8	−12·8	− 0·2	9 19	44·45 42·42
142	+24	329	5·64 F 5	2 12 52·212	+341·17	+ 1·10	− 0·66	+24 48 44·53	+1676·8	−14·0	− 7·8	4 5	42·14 41·11
143	+33	395	5·07 G 0	2 13 58·949	+357·06	+ 1·49	+ 9·29	+33 59 48·71	+1671·3	−14·7	−24·0	7	43·04
144	+19	340	5·69 A 0	2 15 20·332	+333·92	+ 0·91	− 0·09	+19 40 14·91	+1664·9	−13·9	+ 0·3	15 27	44·43 43·29
145	+12	315	7·76 A 5	2 15 23·396	+324·78	+ 0·71	− 0·02	+13 11 58·95	+1664·6	−13·6	− 2·6	6	45·64
146	+ 1	410	5·82 F 8	2 15 25·230	+309·30	+ 0·42	+ 2·43	+ 1 31 17·67	+1664·4	−12·9	+38·1	5	43·85
147	+46	552	5·12 A 0	2 16 2·447	+387·90	+ 2·40	− 0·58	+47 9 1·87	+1661·4	−16·1	− 0·2	8 9	47·46 47·49
148	− 1	322	5·62 A 5	2 19 39·392	+305·85	+ 0·37	− 0·16	− 1 6 41·29	+1643·5	−13·1	− 4·9	10	38·22
149	−18	409	5·99 K 0	2 19 43·520	+282·63	+ 0·07	+ 0·12	−17 53 19·57	+1643·2	−12·2	− 5·1	9 9	42·05 41·70
150	−26	857	6·58 K 0	2 22 5·289	+269·34	− 0·04	+ 0·19	−26 4 24·68	+1631·2	−11·8	+ 3·0	5 6	45·63 44·19

Position 1950 + T = Position 1950 + T (1st Term) + T^2 (2nd Term) + T′ (P.M.). T in centuries from 1950·0, T′ in centuries from epoch.

No.	BD or CD No.		M + Sp.		R.A. 1950			Precession 1st Term	Precession 2nd Term	P.M.	Dec. 1950			Precession 1st Term	Precession 2nd Term	P.M.	No. Obs.		Epoch 1900+	
	°				h	m	s	s	s	s	°	′	″	″	″	″				
151	−20	455	6·05	K 0	2	24	15·675	+278·28	+ 0·05	+ 0·54	−20	16	6·57	+1620·2	−12·4	+10·4	6		44·07	
152	+29	417	5·38	F 0	2	25	13·662	+351·99	+ 1·26	− 0·15	+29	26	50·44	+1615·2	−15·5	− 8·3	6	7	40·46	40·26
153	+ 7	388	4·34	A 0	2	25	29·791	+318·80	+ 0·59	+ 0·25	+ 8	14	12·89	+1613·8	−14·2	− 0·3	16	32	45·34	42·99
154	+ 8	385	6·30	K 0	2	26	54·903	+320·48	+ 0·62	− 0·10	+ 9	20	36·10	+1606·4	−14·3	+ 1·5	6		42·07	
155	+19	365	6·14	F 0	2	27	49·813	+335·98	+ 0·90	+ 0·57	+19	38	3·59	+1601·5	−15·1	− 3·6	7		42·66	
156	+35	497	5·35	K 0	2	29	2·498	+365·95	+ 1·58	+ 0·37	+35	55	35·69	+1595·2	−16·5	+ 1·8	7		37·85	
157	+10	340	7·00	A 0	2	31	43·643	+323·87	+ 0·66	+ 0·17	+11	23	11·96	+1580·8	−14·8	− 4·5	8	9	41·89	42·24
158	+51	599	7·34	*	2	33	21·263	+412·45	+ 2·89	+ 0·04	+51	44	39·14	+1572·1	−19·0	− 0·7	6	7	39·33	39·01
159	− 8	489	5·71	K 5	2	33	32·266	+295·60	+ 0·26	− 0·25	− 8	2	53·36	+1571·1	−13·7	− 5·5	6	7	43·50	43·00
160	+61	448	7·28	A 0	2	36	5·466	+468·16	+ 4·92	+ 0·30	+62	23	15·37	+1557·1	−21·8	− 1·5	6	9	45·87	45·85
161	− 0	406	4·04	B 2	2	36	54·996	+307·49	+ 0·42	+ 0·07	+ 0	6	49·90	+1552·6	−14·5	+ 0·3	14	27	45·11	42·44
162	−16	484	7·30	A 2	2	37	39·463	+282·16	+ 0·13	+ 0·15	−16	31	21·28	+1548·4	−13·4	+ 0·2	6		44·34	
163	+58	504	7·18	F 5	2	37	55·838	+447·42	+ 4·02	+ 0·52	+58	45	51·18	+1546·9	−21·1	− 0·9	4	5	47·62	45·50
164	+47	683	6·56	G 5	2	39	39·806	+402·73	+ 2·46	+ 0·07	+48	3	11·04	+1537·3	−19·2	+ 0·3	5	6	40·63	41·20
165	+80	86	5·92	K 0	2	40	25·579	+865·91	+34·64	+ 0·70	+81	14	22·60	+1533·0	−41·0	− 6·8	13	13	43·49	43·26
166	+48	746	4·22	F 8	2	40	46·066	+406·59	+ 2·56	+ 3·44	+49	1	7·09	+1531·0	−19·5	− 8·4	6		43·65	
167	+43	566	5·58	G 5	2	40	49·123	+390·87	+ 2·10	+ 0·03	+44	5	8·55	+1530·7	−18·7	− 0·6	5		38·60	
168	− 3	426	6·64	K 0	2	40	57·043	+303·19	+ 0·36	+ 0·14	− 2	44	35·28	+1530·0	−14·6	+ 0·7	5		43·65	
169	−26	996	6·87	G 0	2	42	1·181	+265·54	+ 0·02	+ 1·23	−25	42	25·20	+1524·0	−12·9	+ 6·1	3		47·43	
170	+ 9	359	4·36	F 0	2	42	14·038	+322·50	+ 0·63	+ 1·90	+ 9	54	15·33	+1522·7	−15·6	− 3·0	9	14	46·35	43·59
171	+35	553	6·38	G 5	2	43	52·378	+370·45	+ 1·55	+ 0·42	+35	46	28·66	+1513·3	−18·0	− 0·4	6	7	44·76	43·94
172	+69	179	*	A 0	2	44	22·762	+541·31	+ 7·92	+ 0·08	+69	25	32·52	+1510·4	−26·2	+ 3·7	12		46·62	
173	−22	479	6·49	F 5	2	44	28·650	+272·10	+ 0·08	+ 0·66	−21	50	55·03	+1509·9	−13·3	+ 1·4	5		41·29	
174	−13	530	*	M b	2	45	32·087	+287·47	+ 0·20	+ 0·05	−12	40	4·27	+1503·7	−14·2	− 3·4	5	6	41·70	40·92
175	+17	442	6·04	K 0	2	45	43·539	+336·18	+ 0·84	+ 0·32	+18	4	36·06	+1502·7	−16·6	− 3·5	8		42·28	
176	− 5	541	7·30	K 0	2	52	9·320	+298·50	+ 0·32	+ 0·13	− 5	31	59·18	+1464·9	−15·2	− 1·6	7		39·12	
177	+14	492	7·70	A 0	2	52	54·599	+331·00	+ 0·74	− 0·17	+14	30	18·62	+1460·4	−16·8	− 2·4	5	6	43·51	42·43
178	+72	153	7·92	G 5	2	53	21·208	+597·70	+10·29	+ 0·76	+72	28	21·97	+1457·7	−30·2	− 1·7	12		44·23	
179	+ 7	450	6·08	F 8	2	53	33·063	+320·53	+ 0·58	+ 0·45	+ 8	10	53·64	+1456·6	−16·4	− 8·4	6	7	46·00	45·01
180	− 9	553	4·05	K 0	2	53	58·936	+292·60	+ 0·26	+ 0·53	− 9	5	43·82	+1453·9	−15·0	−21·4	4	7	40·41	40·66
181	+ 3	410	6·31	M a	2	54	27·190	+314·26	+ 0·50	+ 0·05	+ 4	18	0·80	+1451·1	−16·1	+ 2·5	4	5	45·10	45·68
182	+20	480	5·85	F 0	2	55	13·132	+341·85	+ 0·90	+ 1·65	+20	28	9·64	+1446·5	−17·5	− 2·8	4		46·63	
183	+ 3	419	2·82	M a	2	59	39·762	+313·74	+ 0·49	− 0·06	+ 3	53	41·06	+1419·3	−16·4	− 7·3	8	11	48·78	45·78
184	−18	516	7·40	F 0	2	59	44·581	+275·93	+ 0·14	− 0·17	−18	24	11·36	+1418·8	−14·5	− 2·2	6		47·48	
185	+52	654	3·08	*	3	1	9·579	+434·78	+ 2·97	+ 0·01	+53	18	43·99	+1410·1	−22·8	− 0·2	6		46·41	
186	− 2	554	7·10	G 5	3	4	40·766	+303·97	+ 0·38	− 0·15	− 1	59	38·45	+1388·0	−16·2	− 2·8	7		41·33	
187	+40	673	*	B 8	3	4	54·332	+390·50	+ 1·77	+ 0·06	+40	45	52·07	+1386·6	−20·8	+ 0·3	9	11	43·30	42·34
188	−14	604	7·16	G 0	3	4	56·851	+283·36	+ 0·20	+ 0·06	−13	56	59·12	+1386·3	−15·2	−25·3	5	4	47·50	47·61
189	+49	857	4·17	G 0	3	5	26·055	+420·24	+ 2·48	+12·97	+49	25	27·06	+1383·1	−22·4	− 7·7	7		45·00	
190	+18	414	6·48	K 5	3	5	30·746	+339·89	+ 0·83	+ 0·34	+18	36	16·16	+1382·7	−18·2	− 1·5	5	5	43·33	42·58
191	+28	499	5·60	B 9	3	6	35·794	+360·93	+ 1·17	+ 0·15	+28	53	14·49	+1375·8	−19·4	− 1·0	2	3	43·38	41·27
192	+52	663	7·50	A 5	3	7	21·173	+436·45	+ 2·88	− 0·06	+52	57	17·01	+1371·0	−23·5	− 0·6	3	4	48·52	47·66
193	+31	553	7·38	K 0	3	7	47·508	+368·44	+ 1·30	+ 0·35	+32	2	16·77	+1368·3	−20·0	− 1·9	3		44·36	
194	+19	477	4·53	K 0	3	8	45·842	+342·11	+ 0·86	+ 1·07	+19	32	20·14	+1362·0	−18·6	− 0·5	7	22	44·89	41·53
195	+41	631	6·00	B 8	3	8	50·834	+396·21	+ 1·85	+ 0·27	+42	11	18·88	+1361·4	−21·5	− 1·2	4	6	48·06	44·88
196	+47	779	6·42	K 0	3	8	58·064	+414·54	+ 2·28	+ 0·73	+47	32	23·30	+1360·7	−22·4	− 7·7	5	5	44·70	42·51
197	+ 6	496	5·84	*	3	9	46·917	+318·49	+ 0·54	− 0·05	+ 6	28	25·70	+1355·4	−17·4	0·0	6		45·54	
198	+56	798	5·92	A 0p	3	11	57·088	+459·95	+ 3·44	− 0·01	+56	57	21·91	+1341·5	−25·2	+ 0·6	7	8	41·39	40·85
199	+38	690	5·97	A 0	3	14	30·721	+388·82	+ 1·62	+ 0·23	+39	6	4·45	+1324·7	−21·6	− 1·4	7		41·34	
200	+12	460	7·64	B 8	3	15	29·962	+329·90	+ 0·66	+ 0·01	+12	38	31·97	+1318·2	−18·4	+ 0·3	6	7	38·62	39·41

Position 1950 + T = Position 1950 + T (1st Term) + T^2 (2nd Term) + T′ (P.M.). T in centuries from 1950·0, T′ in centuries from epoch.

*158 G5 + A5 *172 6m3 to 7m8 *174 6m3 to 7m7 *185 F5 + A3 *197 G5 + A5

No.	BD or CD No.		M + Sp.		R.A. 1950			Precession 1st Term	Precession 2nd Term	P.M.	Dec. 1950			Precession 1st Term	Precession 2nd Term	P.M.	No. Obs.		Epoch 1900+	
	°				h	m	s	s	s	s	°	′	″	″	″	″				
201	−19	651	5·83	F 0	3	16	23·998	+273·06	+ 0·16	+ 0·96	−18	44	24·49	+1312·3	−15·4	− 4·9	7		40·53	
202	+84	59	5·78	K 0	3	20	5·899	+1419·53	+86·02	+ 5·64	+84	44	24·01	+1287·6	−79·6	−13·0	77	75	45·04	44·84
203	−26	1257	6·26	A 0	3	20	7·213	+257·90	+ 0·11	+ 0·14	−25	45	56·63	+1287·5	−14·7	+ 0·8	6		42·90	
204	+64	391	5·55	K 2	3	20	18·609	+521·29	+ 5·16	− 0·13	+64	24	34·06	+1286·2	−29·4	+ 0·4	12	17	41·07	41·88
205	+49	917	1·90	F 5	3	20	44·454	+428·29	+ 2·40	+ 0·30	+49	41	6·64	+1283·3	−24·3	− 2·2	5	6	45·69	44·76
206	+ 8	511	3·80	G 5	3	22	7·177	+323·39	+ 0·57	− 0·45	+ 8	51	15·63	+1274·1	−18·4	− 7·1	5	15	41·75	38·94
207	− 4	586	7·41	G 5	3	22	39·870	+298·91	+ 0·34	+ 0·30	− 4	39	16·56	+1270·4	−17·2	+ 6·1	6		42·39	
208	+19	537	7·0	A 3	3	25	8·195	+345·87	+ 0·84	+ 0·07	+20	17	29·47	+1253·6	−20·0	− 0·3	6	8	44·06	44·20
209	−11	667	5·85	K 0	3	25	37·767	+286·16	+ 0·25	+ 0·01	−11	27	30·48	+1250·2	−16·6	− 4·6	5	6	43·92	43·12
210	+29	566	7·06	B 3	3	25	42·228	+368·13	+ 1·15	− 0·13	+30	12	12·99	+1249·7	−21·2	− 0·5	5	6	42·39	41·50
211	−23	1412	6·84	F 5	3	27	23·995	+261·32	+ 0·14	+ 0·64	−23	38	49·33	+1238·1	−15·2	+ 3·5	6	6	45·95	45·83
212	+12	486	4·28	K 0	3	28	6·478	+331·20	+ 0·64	+ 0·15	+12	46	0·15	+1233·2	−19·3	+ 0·3	15	37	44·72	41·65
213	+34	674	5·80	B 3	3	29	28·526	+382·23	+ 1·35	− 0·07	+35	17	35·78	+1223·7	−22·3	+ 0·4	5		44·55	
214	+ 8	528	5·64	B 8	3	29	53·383	+324·50	+ 0·56	+ 0·22	+ 9	12	21·01	+1220·9	−19·0	− 4·2	6		43·81	
215	− 9	697	3·81	K 0	3	30	35·031	+289·31	+ 0·27	− 6·60	− 9	37	35·16	+1216·2	−17·0	+ 2·1	4	15	40·26	39·44
216	−22	628	4·32	B 8	3	31	34·663	+264·71	+ 0·15	+ 0·30	−21	47	58·23	+1209·1	−15·7	− 2·5	5		43·86	
217	−17	699	5·32	A 0p	3	34	0·566	+273·18	+ 0·19	+ 0·17	−17	37	52·86	+1192·2	−16·3	− 0·5	7	9	44·23	43·54
218	+22	518	6·69	A 0p	3	34	1·298	+353·03	+ 0·88	− 0·08	+23	2	49·65	+1192·0	−20·9	− 2·2	6		39·69	
219	+ 0	616	6·12	G 0	3	34	13·204	+308·13	+ 0·41	− 0·17	+ 0	25	34·54	+1190·6	−18·3	−16·0	6		38·55	
220	+13	579	6·89	G 5	3	36	29·887	+333·78	+ 0·64	+ 0·09	+13	43	52·48	+1174·5	−20·0	− 9·0	6	8	40·31	41·38
221	− 6	713	6·00	G 5	3	36	32·868	+296·35	+ 0·32	− 0·09	− 5	47	5·48	+1174·2	−17·8	−20·1	6	7	41·69	41·32
222	+40	813	7·08	F 2	3	37	34·870	+401·86	+ 1·61	− 0·30	+41	1	36·49	+1166·8	−24·0	+ 8·1	6		39·82	
223	+47	876	3·10	B 5	3	39	21·247	+427·08	+ 2·05	+ 0·31	+47	37	46·02	+1154·2	−25·8	− 3·2	7	7	43·38	41·40
224	−10	728	3·72	K 0	3	40	51·049	+288·11	+ 0·28	− 0·63	− 9	55	58·08	+1143·4	−17·5	+74·6	6	22	46·18	43·46
225	+45	804	6·09	A 5	3	41	9·945	+420·85	+ 1·90	− 0·04	+45	56	36·17	+1141·2	−25·4	− 3·7	6		44·58	
226	−10	729	5·70	A 0	3	41	10·400	+286·69	+ 0·26	− 0·10	−10	38	34·06	+1141·2	−17·4	− 1·4	5		47·80	
227	+66	284	5·84	F 2	3	41	15·331	+566·76	+ 5·74	+ 1·68	+67	2	50·52	+1140·6	−34·2	−10·9	10	9	45·65	45·33
228	+36	742	5·57	A 2	3	41	16·750	+388·05	+ 1·33	+ 0·40	+36	18	14·17	+1140·4	−23·6	− 3·5	3		41·10	
229	+27	556	6·71	F 0	3	41	34·478	+365·17	+ 1·00	− 0·22	+27	44	31·41	+1138·3	−22·1	− 7·3	3		43·98	
230	+23	541	2·96	B5p	3	44	30·406	+356·61	+ 0·87	+ 0·15	+23	57	7·26	+1117·0	−21·8	− 4·4	6	7	45·50	45·30
231	−23	1565	4·33	F 8	3	44	41·760	+259·30	+ 0·16	− 1·16	−23	23	43·94	+1115·7	−15·9	−52·4	3		46·05	
232	− 0	602	6·10	K 0	3	46	4·851	+307·48	+ 0·40	+ 0·39	+ 0	4	31·86	+1105·6	−19·0	− 0·4	6	5	45·79	46·32
233	−21	703	6·06	K 0	3	46	33·536	+264·38	+ 0·17	− 0·10	−21	3	18·31	+1103·3	−16·3	− 2·1	5		46·65	
234	+ 6	594	5·62	B 9	3	49	20·088	+319·91	+ 0·48	+ 0·07	+ 6	23	9·55	+1081·8	−19·8	− 0·4	3		45·72	
235	+57	752	5·79	A 0	3	49	38·763	+486·31	+ 3·12	+ 1·06	+57	49	43·48	+1079·4	−30·1	− 9·8	2	4	48·40	46·48
236	+16	523	5·96	F 0	3	50	18·159	+342·19	+ 0·68	+ 1·00	+17	10	45·88	+1074·7	−21·4	− 2·7	5		44·06	
237	− 7	695	6·55	B 9	3	50	41·304	+293·90	+ 0·30	− 0·05	− 6	46	53·45	+1071·8	−18·4	+ 0·1	4		47·81	
238	+31	666	2·91	B 1	3	50	58·971	+377·21	+ 1·09	+ 0·07	+31	44	12·52	+1069·6	−23·5	− 1·0	3		44·76	
239	+86	51	5·84	F 5	3	51	14·342	+2150·39	+168·41	+16·77	+86	29	20·37	+1067·5	−132·8	− 7·5	90	85	37·82	37·88
240	+30	591	*	B0p	3	52	15·197	+375·19	+ 1·05	− 0·07	+30	54	0·32	+1060·2	−23·4	− 0·7	6	5	44·28	45·89
241	+ 2	628	7·40	K 0	3	54	0·872	+313·12	+ 0·42	+ 0·22	+ 2	54	49·14	+1047·1	−19·7	0·0	6		43·27	
242	+24	599	6·38	K 0	3	54	26·677	+358·87	+ 0·84	+ 0·03	+24	19	7·22	+1043·9	−22·6	− 1·1	8	7	43·59	43·59
243	+39	895	2·96	B 1	3	54	29·373	+402·60	+ 1·41	+ 0·18	+39	52	2·79	+1043·6	−25·3	− 2·6	5	7	40·02	39·75
244	−13	781	3·19	K 5	3	55	41·598	+279·53	+ 0·24	+ 0·43	−13	38	57·58	+1034·5	−17·6	−10·8	5	18	41·57	41·59
245	+13	621	7·33	G 5	3	56	31·763	+335·57	+ 0·60	− 0·02	+13	50	3·66	+1028·3	−21·2	− 6·2	5	6	42·15	41·98
246	+12	539	*	B 3	3	57	54·409	+332·53	+ 0·56	− 0·04	+12	21	2·17	+1017·9	−21·1	− 1·1	6	19	40·48	40·36
247	+ 5	581	3·94	A 0	4	0	29·583	+319·20	+ 0·46	+ 0·01	+ 5	51	7·14	+ 998·4	−20·4	+ 0·1	13	36	41·52	41·01
248	+73	210	6·72	K 0	4	1	13·701	+708·59	+ 9·52	+ 0·65	+73	52	0·15	+ 992·8	−45·1	− 6·6	16	15	43·37	43·17
249	+61	669	6·75	B 2	4	1	44·297	+525·59	+ 3·68	− 0·06	+61	58	0·67	+ 988·9	−33·5	+ 0·2	11	14	46·23	46·08
250	−13	806	5·67	G 5	4	2	2·236	+280·63	+ 0·24	+ 0·06	−12	55	43·06	+ 986·7	−18·0	+ 1·6	4	5	38·31	38·07

Position 1950 + T = Position 1950 + T (1st Term) + T^2 (2nd Term) + T′ (P.M.). T in centuries from 1950·0, T′ in centuries from epoch.

*240 6^m0 to 6^m6 *246 3^m8 to 4^m1

No.	BD or CD No.		M + Sp.		R.A. 1950			Precession 1st Term	Precession 2nd Term	P.M.	Dec. 1950			Precession 1st Term	Precession 2nd Term	P.M.	No. Obs.		Epoch 1900+	
	°				h	m	s	s	s	s	°	′	″	″	″	″				
251	+42	897	6·67	B 8	4	4	44·284	+416·72	+ 1·50	+ 0·07	+43	3	32·05	+ 966·1	−26·8	− 2·0	5	8	39·06	38·81
252	−22	754	6·58	A 3	4	4	48·125	+259·72	+ 0·18	+ 0·05	−22	7	37·24	+ 965·5	−16·8	− 1·2	8	7	39·51	39·86
253	+37	882	5·59	F 8	4	5	16·065	+398·62	+ 1·24	+ 1·42	+37	54	40·26	+ 961·9	−25·6	−20·0	9		39·47	
254	− 3	696	6·80	A 0	4	7	19·132	+299·70	+ 0·32	+ 0·04	− 3	42	12·86	+ 946·2	−19·4	+ 0·1	7		38·03	
255	+ 5	601	5·71	F 0	4	8	40·277	+318·49	+ 0·43	+ 1·00	+ 5	23	38·99	+ 935·7	−20·8	+ 1·1	8		38·93	
256	− 7	764	4·14	F 2	4	9	25·335	+292·86	+ 0·29	+ 0·06	− 6	58	0·67	+ 929·9	−19·1	+ 8·6	7	27	45·11	42·21
257	−17	816	6·58	K 0	4	9	44·953	+270·20	+ 0·20	+ 0·02	−17	24	5·34	+ 927·4	−17·6	− 4·0	6		45·98	
258	+48	1059	7·28	G 5	4	9	58·757	+443·50	+ 1·82	+ 0·15	+48	58	2·85	+ 925·7	−28·9	− 0·1	10		44·15	
259	+53	750	5·12	A 2	4	12	48·419	+468·44	+ 2·18	− 0·10	+53	29	18·12	+ 903·6	−30·6	− 0·1	6	5	39·23	39·67
260	+21	618	5·56	A 5	4	15	25·317	+354·48	+ 0·68	+ 0·70	+21	27	31·30	+ 883·1	−23·4	− 3·5	5	6	43·87	44·41
261	+83	104	5·39	B 3	4	16	24·213	+1394·78	+47·78	− 0·55	+83	41	32·93	+ 875·5	−91·6	+ 1·3	9		46·08	
262	+15	612	3·86	K 0	4	16	56·660	+340·72	+ 0·56	+ 0·81	+15	30	30·63	+ 871·1	−22·6	− 2·3	4	7	48·71	48·00
263	+14	682	5·27	F 0	4	17	45·957	+339·58	+ 0·55	+ 0·76	+14	58	37·00	+ 864·7	−22·5	− 2·3	4		46·45	
264	−16	838	6·65	B 9	4	17	53·090	+271·49	+ 0·20	+ 0·16	−16	33	21·27	+ 863·8	−18·0	− 0·4	2		47·00	
265	− 7	798	5·72	B 8	4	18	17·245	+290·99	+ 0·27	+ 0·02	− 7	42	38·28	+ 860·6	−19·4	− 0·4	2	3	47·72	44·14
266	+85	63	6·70	F 8	4	19	53·486	+1817·91	+85·38	+ 1·78	+85	25	2·80	+ 847·9	−120·2	+ 2·8	123	122	39·40	39·78
267	+17	712	3·93	K 0	4	20	3·	+345·34	+ 0·58	+ 0·76	+17	25	37·25	+ 846·7	−23·0	− 2·7	0	4		43·58
268	− 4	818	5·23	A 2	4	21	11·348	+299·13	+ 0·30	− 0·36	− 3	51	34·69	+ 837·6	−20·0	− 5·5	5	6	40·97	41·98
269	+57	800	6·23	A 0	4	22	50·983	+498·31	+ 2·46	+ 0·18	+57	28	23·61	+ 824·4	−33·3	− 1·8	7	8	40·88	40·41
270	+ 8	687	5·99	B 5	4	23	38·189	+325·51	+ 0·43	+ 0·02	+ 8	28	41·54	+ 818·0	−21·8	− 1·4	8		41·39	
271	+ 1	753	6·37	K 0	4	24	24·518	+311·53	+ 0·35	+ 0·44	+ 1	58	7·57	+ 811·9	−20·9	− 4·4	4	5	43·29	42·85
272	+69	258	7·02	K 0	4	24	35·313	+630·21	+ 5·22	+ 0·16	+69	16	8·92	+ 810·5	−42·2	− 3·0	10	13	41·66	42·61
273	+18	640	3·63	K 0	4	25	41·548	+349·66	+ 0·58	+ 0·77	+19	4	16·74	+ 801·7	−23·6	− 3·4	9	41	41·95	40·10
274	−21	878	6·73	F 5	4	25	45·892	+258·80	+ 0·18	− 0·09	−21	36	48·71	+ 801·1	−17·4	− 3·5	2	3	45·08	45·74
275	+27	661	6·61	A 0	4	26	14·269	+370·59	+ 0·75	+ 0·14	+27	17	43·89	+ 797·2	−25·0	− 2·2	3		43·36	
276	+15	639	5·49	A 5	4	27	47·482	+341·62	+ 0·52	+ 0·73	+15	35	5·66	+ 784·8	−23·1	− 2·4	7	8	42·61	42·80
277	+36	907	6·82	F 5	4	28	56·817	+399·96	+ 1·00	+ 0·23	+36	56	14·61	+ 775·5	−27·1	− 1·4	7		39·59	
278	+16	629	1·06	K 5	4	33	2·855	+343·88	+ 0·51	+ 0·47	+16	24	39·58	+ 742·3	−23·4	−18·8	2	33	43·51	40·50
279	+ 0	798	5·32	B 5	4	34	38·906	+309·28	+ 0·32	− 0·03	+ 0	53	54·38	+ 729·3	−21·2	− 0·3	5	6	37·26	38·40
280	− 2	963	5·31	A 5	4	35	4·986	+301·74	+ 0·28	+ 0·28	− 2	34	19·35	+ 725·8	−20·7	− 5·8	7		43·72	
281	+20	785	5·73	B 9	4	35	18·631	+354·12	+ 0·56	− 0·10	+20	35	9·29	+ 723·9	−24·2	− 0·7	7	8	43·28	42·39
282	−18	883	7·73	K 0	4	35	50·614	+267·01	+ 0·19	− 0·90	−17	54	52·42	+ 719·4	−18·3	− 4·4	4		44·93	
283	+11	639	5·37	B 9	4	37	16·212	+334·13	+ 0·44	0·00	+12	6	3·62	+ 707·9	−23·0	− 0·9	10		38·85	
284	+76	174	6·51	F 5	4	39	1·784	+830·34	+ 9·69	+ 2·10	+76	31	15·08	+ 693·5	−56·7	−13·2	16	17	41·85	41·78
285	+22	739	4·33	B 5	4	39	14·383	+360·20	+ 0·58	− 0·01	+22	51	45·98	+ 691·7	−24·8	− 1·5	7		40·65	
286	+43	1043	5·25	A 0	4	39	21·056	+425·41	+ 1·13	+ 0·39	+43	16	19·14	+ 690·8	−29·2	− 5·1	8		39·20	
287	+49	1230	5·77	B 8	4	39	33·082	+456·23	+ 1·47	− 0·02	+49	52	49·58	+ 689·2	−31·4	− 1·9	6		42·39	
288	+32	827	6·45	A 3	4	40	34·088	+388·23	+ 0·78	− 0·24	+32	46	24·48	+ 680·8	−26·7	− 4·4	7	6	39·10	39·44
289	− 8	929	5·87	B 5	4	41	41·065	+288·30	+ 0·24	− 0·03	− 8	35	43·65	+ 671·6	−20·0	0·0	6		42·44	
290	−21	966	6·03	K 2	4	42	55·007	+257·96	+ 0·18	+ 0·13	−21	22	25·63	+ 661·4	−17·9	− 2·2	5		45·41	
291	− 3	876	4·18	B 5	4	43	0·004	+299·95	+ 0·27	+ 0·09	− 3	20	41·25	+ 660·8	−20·8	− 1·0	10	33	41·21	40·38
292	+55	928	6·34	F 0	4	44	0·347	+491·26	+ 1·82	+ 0·94	+55	30	57·09	+ 652·5	−34·0	−10·2	6		44·94	
293	+29	741	7·36	B 9	4	45	12·742	+379·48	+ 0·68	+ 0·09	+29	49	9·72	+ 642·4	−26·4	− 3·5	6	9	36·87	37·95
294	−14	970	6·30	F 2	4	47	24·628	+276·01	+ 0·20	− 0·79	−13	51	8·15	+ 624·3	−19·2	−16·3	7	11	40·09	38·82
295	+61	739	6·63	A 2	4	49	8·542	+540·78	+ 2·33	+ 0·34	+61	24	1·41	+ 609·8	−37·7	− 3·9	10	13	41·76	41·77
296	+80	155	5·32	K 0	4	50	54·548	+1123·65	+18·00	0·00	+81	6	58·89	+ 595·1	−78·4	+ 2·9	14	15	42·21	42·57
297	+ 2	810	3·87	B 3	4	51	38·668	+312·59	+ 0·30	− 0·03	+ 2	21	37·04	+ 589·0	−21·9	+ 0·3	3	22	41·42	40·97
298	+ 7	755	5·54	K 0	4	52	5·408	+324·60	+ 0·34	− 0·13	+ 7	41	59·27	+ 585·3	−22·8	− 3·2	6		44·16	
299	−16	992	5·82	K 0	4	53	3·797	+269·43	+ 0·19	+ 0·05	−16	29	50·63	+ 577·0	−19·0	+ 4·8	4	3	45·13	47·82
300	− 5	1091	5·46	B 9	4	53	56·312	+295·56	+ 0·24	− 0·05	− 5	14	56·98	+ 569·8	−20·8	− 0·5	1	3	37·03	40·43

Position 1950 + T = Position 1950 + T (1st Term) + T^2 (2nd Term) + T′ (P.M.). T in centuries from 1950·0, T′ in centuries from epoch.

No.	BD or CD No.	M + Sp.	R.A. 1950	Precession 1st Term	Precession 2nd Term	P.M.	Dec. 1950	Precession 1st Term	Precession 2nd Term	P.M.	No. Obs.	Epoch 1900+
	°		h m s	s	s	s	° ′ ″	″	″	″		
301	+23 777	5·99 K 0	4 54 46·398	+364·09	+ 0·51	+ 0·09	+23 52 19·24	+ 562·7	−25·6	− 0·8	4 5	42·12 42·72
302	+37 1005	4·99 A 0	4 55 51·441	+407·00	+ 0·78	+ 0·38	+37 49 0·40	+ 553·6	−28·6	−10·2	5	41·83
303	+ 1 872	4·73 K 0	4 55 57·287	+311·00	+ 0·28	− 0·01	+ 1 38 19·49	+ 552·8	−21·9	− 0·2	7	42·10
304	+14 796	5·98 B 8	4 56 9·002	+340·47	+ 0·38	+ 0·05	+14 28 6·51	+ 551·2	−24·0	− 1·9	7 7	41·79 40·21
305	+43 1166	* F5p	4 58 22·530	+430·65	+ 0·92	+ 0·04	+43 45 5·46	+ 532·5	−30·4	− 0·6	10	39·32
306	+41 1044	6·20 A 0	4 59 47·905	+420·97	+ 0·82	+ 0·05	+41 22 17·26	+ 520·5	−29·8	− 0·5	6 8	39·93 39·36
307	+21 751	4·70 A 5	5 0 6·164	+358·22	+ 0·44	+ 0·47	+21 31 13·67	+ 517·9	−25·3	− 4·0	8 9	40·97 41·44
308	+58 804	5·31 B3p	5 1 47·128	+521·76	+ 1·70	0·00	+58 54 18·46	+ 503·6	−36·9	− 0·7	6	38·26
309	−24 2795	5·55 A 2	5 1 48·817	+248·51	+ 0·16	+ 0·17	−24 27 22·68	+ 503·4	−17·6	− 2·8	5 6	44·39 43·52
310	− 3 998	5·98 B 5	5 2 24·253	+300·30	+ 0·23	0·00	− 3 6 26·77	+ 498·4	−21·3	+ 0·2	6	42·89
311	+33 953	6·94 B 8	5 2 51·003	+394·18	+ 0·62	+ 0·04	+33 51 7·98	+ 494·6	−28·0	− 0·6	6 7	42·27 41·40
312	−22 1000	3·29 K 5	5 3 20·567	+253·83	+ 0·16	+ 0·18	−22 26 12·85	+ 490·4	−18·0	− 6·9	5	42·60
313	−12 1076	6·14 F 8	5 5 5·157	+278·42	+ 0·18	+ 0·95	−12 33 15·69	+ 475·6	−19·8	− 7·8	4	43·18
314	− 5 1162	2·92 A 3	5 5 23·390	+295·63	+ 0·21	− 0·64	− 5 8 58·35	+ 473·1	−21·0	− 7·7	9 30	46·02 42·75
315	+19 853	6·55 G 5	5 5 53·261	+354·09	+ 0·40	+ 0·06	+19 47 48·33	+ 468·8	−25·2	− 1·5	4	37·88
316	+73 274	5·38 A0p	5 6 2·705	+757·07	+ 4·88	+ 0·21	+73 53 9·31	+ 467·5	−54·0	− 3·3	11 13	41·38 42·18
317	+ 9 743	5·42 A 2	5 6 34·416	+329·71	+ 0·30	+ 0·41	+ 9 46 1·08	+ 463·0	−23·4	− 0·3	6 7	42·20 41·62
318	+27 732	5·97 A 3	5 6 36·499	+376·36	+ 0·50	+ 0·43	+27 58 8·96	+ 462·7	−26·8	− 6·6	5	40·34
319	+46 970	5·59 F 5	5 6 59·125	+446·33	+ 0·90	+ 0·59	+46 54 10·61	+ 459·5	−31·8	−15·0	6	42·45
320	+67 371	7·12 A 0	5 8 56·568	+620·76	+ 2·58	+ 0·08	+67 25 27·47	+ 442·8	−44·2	− 6·6	15	42·47
321	− 8 1059	6·16 A 0	5 11 8·941	+288·49	+ 0·19	+ 0·01	− 8 12 18·40	+ 424·0	−20·6	+ 0·2	9 8	40·44 40·86
322	− 8 1063	0·34 B8p	5 12 7·991	+288·36	+ 0·19	+ 0·02	− 8 15 29·04	+ 415·6	−20·6	− 0·1	9 25	45·68 41·50
323	+45 1077	0·21 G 0	5 12 59·362	+442·55	+ 0·78	+ 0·81	+45 57 2·85	+ 408·3	−31·7	−42·3	7 8	38·85 38·89
324	+85 74	6·54 A 5	5 13 49·893	+2131·29	+53·40	+ 2·34	+85 53 40·90	+ 401·1	−152·2	− 8·2	35 34	45·18 45·21
325	− 7 1028	3·68 B 5	5 15 10·606	+291·47	+ 0·19	− 0·11	− 6 53 49·44	+ 389·5	−20·9	− 0·8	5 27	43·19 41·14
326	+21 816	5·14 K 0	5 16 16·181	+360·46	+ 0·36	+ 0·10	+22 2 48·60	+ 380·1	−25·9	− 8·3	5 6	38·51 38·44
327	+ 2 916	5·45 F 5	5 16 34·607	+313·16	+ 0·22	− 0·11	+ 2 32 44·37	+ 373·5	−22·5	− 4·6	6	38·96
328	−18 1051	5·93 G 0	5 16 36·812	+264·22	+ 0·16	+ 2·68	−18 10 55·04	+ 377·2	−19·0	+ 6·2	4 5	45·75 44·82
329	+54 882	6·75 G 5	5 17 12·410	+489·39	+ 1·01	− 0·01	+54 12 10·09	+ 372·0	−35·2	+ 3·0	6	45·32
330	+10 758	7·44 A 0	5 17 38·143	+332·48	+ 0·26	− 0·08	+10 50 28·39	+ 368·4	−23·9	− 2·7	6	38·97
331	+ 8 933	5·71 B 2	5 19 0·091	+326·70	+ 0·24	+ 0·01	+ 8 22 49·66	+ 356·6	−23·5	+ 0·2	8 10	38·98 39·41
332	+70 351	7·04 B 9	5 21 9·862	+672·85	+ 2·48	+ 0·38	+70 11 6·35	+ 338·0	−48·4	− 2·5	14 15	44·50 44·58
333	+37 1175	5·22 K 5	5 21 15·039	+407·82	+ 0·50	+ 0·03	+37 20 26·56	+ 337·2	−29·4	− 1·0	7	40·53
334	+ 6 919	1·70 B 2	5 22 26·813	+321·89	+ 0·22	− 0·06	+ 6 18 21·76	+ 327·0	−23·2	− 1·5	6 54	45·27 40·42
335	+28 795	1·78 B 8	5 23 7·742	+379·13	+ 0·37	+ 0·20	+28 34 2·38	+ 321·1	−27·4	−17·6	4 3	46·27 44·65
336	+17 928	5·31 B 3	5 24 14·945	+350·01	+ 0·28	+ 0·04	+17 55 15·17	+ 311·4	−25·3	− 2·4	6	43·02
337	−12 1169	6·37 F 5	5 24 45·904	+279·41	+ 0·16	+ 0·08	−11 56 29·63	+ 307·0	−20·2	− 4·8	4 6	38·35 39·94
338	−21 1174	6·14 K 0	5 25 28·597	+255·51	+ 0·14	+ 0·09	−21 25 1·00	+ 300·8	−18·5	+ 3·8	4 5	46·30 44·87
339	− 0 960	6·58 B 9	5 25 52·066	+307·28	+ 0·19	− 0·09	− 0 1 10·07	+ 297·4	−22·2	− 1·6	7 8	38·24 38·60
340	+29 909	6·24 F 5	5 26 29·876	+381·05	+ 0·34	+ 0·20	+29 8 55·07	+ 291·9	−27·6	− 5·6	5 7	38·92 39·12
341	+85 78	6·55 A 0	5 26 41·420	+2040·62	+34·62	− 0·82	+85 38 17·05	+ 290·2	−147·2	+ 0·4	7 8	44·39 43·92
342	+41 1206	6·09 K 0	5 27 16·452	+424·03	+ 0·48	− 0·14	+41 25 30·18	+ 285·2	−30·6	− 4·2	6	39·14
343	− 0 983	2·48 B 0	5 29 27·039	+306·55	+ 0·18	0·00	− 0 20 04·69	+ 266·4	−22·2	+ 0·1	8 48	44·30 41·15
344	−17 1166	2·69 F 0	5 30 31·379	+264·64	+ 0·14	+ 0·02	−17 51 24·12	+ 257·1	−19·2	+ 0·4	6 7	44·33 43·16
345	+ 3 964	5·32 A 2	5 31 38·823	+315·99	+ 0·18	− 0·21	+ 3 44 3·09	+ 247·4	−22·8	− 1·8	8	39·38
346	+64 536	6·03 B 9	5 32 24·302	+581·05	+ 1·14	+ 0·12	+64 7 30·67	+ 240·7	−42·1	− 6·8	10 16	44·48 44·05
347	− 1 969	1·75 B 0	5 33 40·466	+304·47	+ 0·16	0·00	− 1 13 56·70	+ 229·7	−20·6	+ 0·1	11 44	45·98 42·04
348	− 6 1255	5·62 B 3	5 34 9·042	+293·15	+ 0·15	− 0·04	− 6 5 40·64	+ 225·6	−21·2	− 1·1	8	44·25
349	+10 828	6·10 K 0	5 34 17·495	+333·15	+ 0·20	+ 0·32	+11 0 20·24	+ 224·3	−24·2	− 1·3	5	38·12
350	+21 908	3·00 B3p	5 34 39·260	+358·61	+ 0·24	+ 0·01	+21 6 50·23	+ 221·2	−26·0	− 2·2	8	38·63

Position 1950 + T = Position 1950 + T (1st Term) + T^2 (2nd Term) + T′ ((P.M.). T in centuries from 1950·0, T′ in centuries from epoch.

* 305 3^m1 to 3^m8

No.	BD or CD No.		M + Sp.	R.A. 1950	Precession 1st Term	Precession 2nd Term	P.M.	Dec. 1950	Precession 1st Term	Precession 2nd Term	P.M.	No. Obs.		Epoch 1900+	
	°			h m s	s	s	s	° ′ ″	″	″	″				
351	−27	2395	6·75 K 2	5 36 7·427	+238·92	+ 0·13	+ 0·08	−27 14 18·78	+ 208·5	−17·4	− 1·0	3	3	43·81	42·47
352	+24	909	7·04 F 2	5 36 47·843	+367·06	+ 0·24	+ 0·04	+24 11 53·72	+ 202·5	−26·6	+ 3·7	9	10	38·91	39·63
353	−17	1199	6·22 B 9	5 37 3·965	+264·45	+ 0·13	+ 0·01	−17 52 34·25	+ 200·2	−19·2	+ 0·4	8		44·69	
354	+56	1050	6·19 K 0	5 38 46·958	+508·78	+ 0·59	+ 0·21	+56 33 27·86	+ 185·3	−37·0	+ 3·0	6		43·52	
355	−20	1171	6·44 G 0	5 42 19·121	+258·45	+ 0·13	− 0·11	−20 8 51·04	+ 154·5	−18·8	+ 4·6	3		47·87	
356	+15	926	5·91 B 8	5 43 52·868	+345·06	+ 0·17	+ 0·06	+15 48 16·53	+ 140·8	−25·1	− 0·7	5		44·97	
357	+ 9	954	5·89 G 5	5 44 7·380	+329·65	+ 0·15	− 0·23	+ 9 30 21·08	+ 138·7	−24·0	− 6·5	4		44·91	
358	+29	997	7·21 F 8	5 44 13·163	+383·18	+ 0·21	− 0·02	+29 38 31·71	+ 137·8	−27·9	−11·4	3		43·01	
359	− 9	1235	2·20 B 0	5 45 23·	+284·57	+ 0·12	+ 0·02	− 9 41 09·51	+ 127·7	−20·7	− 0·4	0	7		39·99
360	+85	80	6·41 K 0	5 45 34·204	+1886·88	+12·33	+ 1·18	+85 10 27·11	+ 126·1	−137·3	+ 0·3	165	173	40·40	40·34
361	−14	1251	5·57 G 5	5 47 20·135	+272·83	+ 0·12	− 0·18	−14 29 48·64	+ 110·7	−19·8	− 4·5	7	8	38·12	38·24
362	+ 7	1055	* M a	5 52 27·813	+324·67	+ 0·12	+ 0·19	+ 7 23 57·32	+ 65·9	−23·7	+ 1·1	3	14	49·13	42·07
363	+11	975	6·08 G 5	5 54 1·696	+334·54	+ 0·11	+ 0·68	+11 30 58·94	+ 52·2	−24·4	− 5·4	5	6	43·59	42·35
364	−18	1247	6·92 F 5	5 55 21·390	+263·77	+ 0·11	− 0·02	−18 3 34·37	+ 40·6	−19·2	− 0·5	3		43·93	
365	+44	1328	2·07 A0p	5 55 51·623	+440·66	+ 0·12	− 0·50	+44 56 39·79	+ 36·2	−32·2	− 0·3	6	6	44·86	45·87
366	+ 0	1239	5·25 A 0	5 56 15·262	+308·61	+ 0·10	− 0·10	+ 0 32 59·17	+ 32·8	−22·5	+ 0·1	4		44·08	
367	− 9	1285	5·10 A 5	5 56 41·740	+284·82	+ 0·10	+ 0·11	− 9 33 36·98	+ 28·9	−20·8	− 5·2	4		41·65	
368	+33	1209	6·80 A 2	5 56 57·062	+394·54	+ 0·10	− 0·09	+33 8 6·22	+ 26·6	−28·8	+ 0·6	3	4	43·13	43·14
369	+75	247	6·52 K 5	5 58 15·622	+827·26	+ 0·18	+ 0·55	+75 35 16·69	+ 15·2	−60·4	− 1·6	11	12	46·71	46·92
370	+22	1140	6·28 B 8	5 58 40·401	+362·41	+ 0·09	− 0·05	+22 24 5·34	+ 11·6	−26·4	− 2·2	3	5	39·47	39·74
371	−25	2865	5·90 A 0	5 59 11·166	+243·84	+ 0·10	− 0·04	−25 25 2·13	+ 7·1	−17·8	− 1·6	4	5	45·76	44·85
372	+ 9	1064	4·19 A 2	5 59 37·846	+330·05	+ 0·09	+ 0·11	+ 9 38 56·72	+ 3·2	−24·0	− 2·9	7	8	38·98	38·75
373	+42	1473	6·13 G 5	5 59 41·469	+431·56	+ 0·08	+ 1·08	+42 54 56·42	+ 2·7	−31·4	−14·6	7	8	40·29	40·64
374	+51	1146	6·30 A 5	6 0 31·068	+475·77	+ 0·05	+ 0·06	+51 34 37·41	− 4·6	−34·7	− 4·6	6		43·91	
375	−14	1331	4·67 A 0	6 3 53·488	+271·71	+ 0·10	− 0·10	−14 55 46·38	− 34·0	−19·8	+ 1·8	4	5	43·71	42·38
376	+26	1082	7·01 B 9	6 4 12·752	+374·49	+ 0·05	− 0·06	+26 41 20·60	− 36·8	−27·2	− 0·4	4	5	42·34	41·70
377	− 3	1297	6·75 B 5	6 4 26·464	+299·54	+ 0·08	− 0·08	− 3 20 3·62	− 38·8	−21·8	− 0·3	5	4	44·51	43·60
378	+14	1152	4·40 B 2	6 4 42·953	+342·56	+ 0·06	+ 0·03	+14 46 34·54	− 41·2	−25·0	− 2·3	8	54	46·68	41·27
379	−21	1353	6·12 M b	6 4 50·534	+253·88	+ 0·10	+ 0·04	−21 48 17·88	− 42·4	−18·5	− 1·7	4		44·82	
380	+48	1352	6·09 A 0	6 7 46·708	+459·46	− 0·08	+ 0·22	+48 43 24·55	− 68·1	−33·5	− 5·4	8	11	40·66	40·98
381	+65	517	5·39 K 0	6 7 49·268	+603·52	− 0·32	+ 0·12	+65 43 53·32	− 68·4	−44·0	− 2·9	18	17	45·53	44·29
382	+19	1253	5·70 B 9	6 9 3·543	+355·40	+ 0·03	+ 0·04	+19 48 12·63	− 79·2	−25·8	− 1·2	9		38·92	
383	+22	1241	* M 2	6 11 51·545	+362·66	0·00	− 0·48	+22 31 22·59	− 103·7	−26·4	− 1·3	10	8	40·61	41·24
384	.....		7·48 F 5	6 12 16·284	+404·85	− 0·06	− 0·53	+36 9 46·99	− 107·2	−29·4	+ 0·3	4	5	42·81	42·08
385	+36	1388	6·42 F 0	6 12 16·884	+404·86	− 0·06	− 0·53	+36 9 55·62	− 107·4	−29·4	+ 0·8	4	6	43·21	42·19
386	− 6	1469	4·09 K 0	6 12 25·	+292·69	+ 0·07	− 0·03	− 6 15 28·22	− 108·5	−21·2	− 1·8	0	5		36·34
387	+61	869	5·30 M a	6 13 18·221	+553·36	− 0·42	+ 0·01	+61 32 3·21	− 116·3	−40·2	− 0·4	11	16	39·72	39·45
388	+ 1	1275	6·34 F 5	6 13 18·884	+310·09	+ 0·06	− 0·04	+ 1 11 10·40	− 116·4	−22·6	+ 3·4	6		39·81	
389	+12	1084	5·11 F 5	6 13 38·057	+336·38	+ 0·03	+ 0·55	+12 17 15·17	− 119·1	−24·4	+18·6	10	30	48·36	45·31
390	+23	1275	6·26 B 2	6 13 55·629	+366·04	− 0·02	+ 0·04	+23 45 34·95	− 121·7	−26·6	− 0·4	7		37·99	
391	+59	959	4·42 A 0	6 15 12·712	+529·49	− 0·40	− 0·12	+59 1 53·55	− 132·9	−38·4	+ 2·0	4	5	40·42	40·17
392	+14	1235	5·98 A 0	6 15 14·778	+341·56	+ 0·01	− 0·12	+14 24 10·97	− 133·3	−24·8	− 0·1	7	6	38·99	39·46
393	−16	1426	5·28 K 0	6 15 28·146	+267·09	+ 0·08	− 0·06	−16 47 45·29	− 135·2	−19·4	+ 0·8	7	8	39·58	39·90
394	− 7	1373	5·13 B 3	6 17 18·216	+289·07	+ 0·06	− 0·04	− 7 48 2·28	− 151·2	−21·0	+ 0·1	6	8	38·12	38·01
395	+30	1211	7·06 A 0	6 18 51·699	+384·18	− 0·08	+ 0·02	+29 59 20·79	− 164·8	−27·8	− 1·5	11	12	40·14	40·23
396	+22	1304	3·19 M a	6 19 56·069	+362·58	− 0·05	+ 0·40	+22 32 28·61	− 174·1	−26·2	−11·3	7		41·77	
397	−17	1467	1·99 B 1	6 20 29·799	+264·27	+ 0·08	− 0·04	−17 55 46·27	− 179·0	−19·2	− 0·4	7	4	46·50	44·86
398	+ 4	1236	4·48 A 5	6 21 7·054	+318·08	+ 0·02	− 0·12	+ 4 37 11·34	− 184·4	−23·0	+ 1·1	10	57	46·90	41·86
399	+ 8	1316	6·11 A 0	6 21 18·201	+328·19	0·00	− 0·03	+ 8 54 45·65	− 186·1	−23·8	− 2·0	4	5	40·38	41·75
400	−11	1478	5·39 K 0	6 21 50·373	+280·26	+ 0·06	− 0·35	−11 30 6·14	− 190·7	−20·4	− 4·0	2	3	40·68	41·51

Position 1950 + T = Position 1950 + T (1st Term) + T^2 (2nd Term) + T′ (P.M.). T in centuries from 1950·0, T′ in centuries from epoch.

*362 0m1 to 1m2 *383 3m2 to 4m2

No.	BD or CD No.	M + Sp.	R.A. 1950	Precession 1st Term	Precession 2nd Term	P.M.	Dec. 1950	Precession 1st Term	Precession 2nd Term	P.M.	No. Obs.	Epoch 1900+
	°		h m s	s	s	s	° ′ ″	″	″	″		
401	+70 401	5·99 A 2	6 22 32·758	+684·21	− 1·48	+ 0·09	+70 33 57·60	− 196·9	−49·6	+ 2·3	11 14	41·50 41·84
402	+42 1552	7·14 G 5	6 22 48·122	+427·00	− 0·24	0·00	+41 59 21·35	− 199·1	−30·9	− 1·1	5 6	42·44 42·90
403	− 1 1242	5·73 A 0	6 24 7·607	+303·90	+ 0·03	− 0·02	− 1 28 34·40	− 210·6	−22·0	− 3·5	6 8	40·99 40·66
404	− 4 1526	4·98 B 3	6 25 29·356	+296·34	+ 0·04	− 0·06	− 4 43 47·11	− 222·5	−21·4	+ 0·4	8 31	48·68 42·35
405	+16 1159	6·33 G 5	6 25 35·353	+346·09	− 0·05	− 0·68	+16 16 18·78	− 223·3	−25·0	− 5·3	7 8	39·27 39·01
406	+28 1138	6·85 A 2	6 27 12·681	+378·60	− 0·14	− 0·01	+28 14 49·62	− 237·4	−27·4	− 1·5	7	38·43
407	−22 1429	6·69 A 2	6 27 19·391	+252·22	+ 0·08	+ 0·11	−22 33 23·39	− 238·4	−18·2	+ 0·8	5 3	44·73 41·80
408	+47 1310	7·14 K 5	6 29 4·804	+449·27	− 0·41	+ 0·28	+46 57 38·01	− 253·7	−32·4	− 1·4	8 9	38·65 39·15
409	+52 1097	7·2 A 3	6 29 57·692	+479·98	− 0·57	+ 0·12	+52 30 4·51	− 261·2	−34·6	− 8·0	8 7	39·01 39·41
410	+86 79	6·57 G 5	6 30 9·287	+2629·57	−55·83	+ 1·57	+86 44 8·15	− 263·0	−190·0	−10·6	13 12	41·61 41·09
411	+82 177	6·39 A 2	6 33 59·286	+1267·50	−11·82	+ 0·33	+82 9 49·18	− 296·1	−91·2	− 5·4	10 12	40·94 41·93
412	− 5 1710	5·48 B 9	6 34 7·562	+295·37	+ 0·02	0·00	− 5 10 5·30	− 297·4	−21·2	− 1·4	4	42·06
413	−18 1480	5·81 G 5	6 34 11·465	+262·81	+ 0·06	− 0·07	−18 37 2·96	− 297·9	−18·8	+ 1·6	2	40·68
414	+16 1223	1·93 A 0	6 34 49·379	+346·31	− 0·10	+ 0·30	+16 26 37·68	− 303·4	−25·0	− 4·4	6 35	40·94 40·70
415	+ 2 1315	6·42 K 0	6 35 3·598	+313·67	− 0·02	− 0·21	+ 2 44 56·04	− 305·5	−22·5	− 4·8	4	39·91
416	+22 1416	6·28 K 0	6 36 4·802	+360·85	− 0·15	+ 0·06	+22 4 35·77	− 314·2	−25·9	− 2·9	4 5	39·63 40·15
417	+11 1273	6·43 M a	6 38 30·608	+333·05	− 0·08	− 0·01	+11 3 3·86	− 335·2	−23·8	+ 0·7	9	39·16
418	+32 1378	6·87 G 5	6 39 29·296	+391·54	− 0·29	+ 0·07	+32 36 30·45	− 343·6	−28·0	− 1·7	8	38·66
419	+25 1406	3·18 G 5	6 40 51·367	+369·16	− 0·21	− 0·05	+25 10 56·53	− 355·4	−26·4	− 1·5	8 7	42·51 42·27
420	−25 3546	6·78 G 5	6 41 51·362	+244·70	+ 0·07	− 0·26	−25 28 59·65	− 364·0	−17·4	− 0·4	3 4	47·64 46·31
421	+13 1396	3·40 F 5	6 42 29·018	+337·53	− 0·11	− 0·81	+12 57 05·96	− 369·4	−24·1	−19·5	6 49	43·11 40·99
422	+57 1004	5·47 G 5	6 42 33·954	+511·28	− 1·06	+ 0·28	+57 13 25·28	− 370·1	−36·6	− 4·1	5	44·48
423	+ 8 1486	5·84 B 3	6 43 48·751	+327·27	− 0·08	− 0·07	+ 8 38 29·95	− 380·9	−23·4	− 0·8	5 4	43·15 41·66
424	+48 1436	5·28 K 0	6 43 50·981	+457·41	− 0·70	− 0·04	+48 50 40·66	− 381·1	−32·6	+ 0·5	7	46·15
425	−20 1576	6·00 B 8	6 44 52·930	+257·13	+ 0·06	− 0·09	−20 57 36·36	− 390·0	−18·3	+ 0·3	6	39·16
426	−14 1599	5·29 B 5	6 46 41·632	+272·05	+ 0·04	+ 0·02	−15 5 12·95	− 405·5	−19·4	− 0·5	6	41·61
427	− 2 1776	5·65 A 0	6 46 45·274	+302·27	− 0·02	− 0·11	− 2 12 51·14	− 406·1	−21·5	+ 0·5	12 13	42·00 41·70
428	+16 1298	5·69 B 8	6 46 57·123	+345·49	− 0·16	− 0·11	+16 15 40·95	− 407·8	−24·6	− 1·4	9	39·28
429	+25 1469	6·62 A 2	6 48 53·130	+370·24	− 0·27	− 0·13	+25 43 24·58	− 424·3	−26·2	+ 2·0	6	37·32
430	+44 1551	6·04 F 0	6 51 38·250	+432·99	− 0·66	+ 0·13	+43 58 28·30	− 447·8	−30·7	− 1·2	8 9	38·30 38·28
431	−11 1681	4·25 K 2	6 51 51·965	+279·71	+ 0·02	− 0·95	−11 58 28·86	− 449·7	−19·8	− 1·4	15 37	48·27 44·56
432	+10 1335	5·88 B 8	6 53 40·718	+330·30	− 0·13	− 0·18	+10 1 22·35	− 465·2	−23·3	− 2·1	7 8	38·46 39·05
433	−16 1661	4·39 B 5	6 53 54·348	+267·63	+ 0·04	− 0·02	−16 59 17·34	− 467·1	−18·8	+ 1·0	7 9	39·60 39·72
434	+38 1656	6·15 K 2	6 55 38·612	+409·11	− 0·55	− 0·32	+38 7 24·15	− 481·9	−28·8	−12·5	8 7	39·03 38·72
435	+ 3 1488	6·02 K 0	6 56 19·175	+315·64	− 0·08	− 0·08	+ 3 40 17·48	− 487·6	−22·2	− 0·7	8	38·78
436	−28 3666	1·63 B 1	6 56 39·578	+235·80	+ 0·06	+ 0·04	−28 54 10·45	− 490·5	−16·6	+ 0·2	5	42·38
437	− 8 1662	5·84 A 0	6 57 59·528	+288·37	− 0·01	− 0·15	− 8 20 8·87	− 501·7	−20·2	− 1·0	6 8	39·99 39·42
438	−25 3911	5·80 B 3	6 59 2·582	+246·68	+ 0·06	− 0·07	−25 8 36·64	− 510·6	−17·2	+ 1·9	6 6	43·30 43·32
439	+24 1502	5·21 K 0	6 59 22·028	+365·61	− 0·32	− 0·07	+24 17 18·34	− 513·4	−25·6	− 0·3	7	41·76
440	+20 1687	* G0p	7 1 8·599	+355·89	− 0·28	− 0·07	+20 38 43·23	− 528·3	−24·9	− 0·3	5 30	43·54 40·41
441	−15 1625	4·07 B 5	7 1 29·745	+271·46	+ 0·02	+ 0·01	−15 33 28·85	− 531·3	−19·0	− 0·9	1 4	50·11 39·92
442	+60 1026	6·54 K 0	7 1 36·828	+529·36	− 1·80	+ 0·38	+59 52 42·10	− 532·4	−37·0	− 0·1	5 6	45·77 45·34
443	−21 1732	6·19 K 0	7 2 39·205	+255·47	+ 0·04	+ 0·15	−21 57 16·99	− 541·1	−17·8	− 6·0	8 7	46·06 45·76
444	−11 1790	5·28 B 3	7 4 19·748	+281·87	0·00	− 0·09	−11 12 56·85	− 555·2	−19·6	− 0·6	4 6	39·93 40·00
445	+34 1533	6·47 K 0	7 4 56·604	+393·58	− 0·54	− 0·10	+33 54 45·24	− 560·4	−27·4	− 3·8	7 8	38·44 38·16
446	+ 7 1607	5·92 K 0	7 5 7·279	+324·32	− 0·15	− 0·03	+ 7 33 4·77	− 561·8	−22·6	− 3·6	10	44·15
447	+16 1397	5·58 K 0	7 5 30·003	+344·11	− 0·24	− 0·03	+16 0 44·78	− 565·1	−24·0	−10·4	7	39·91
448	−26 3916	1·98 F8p	7 6 21·417	+244·00	+ 0·06	− 0·03	−26 18 45·17	− 572·3	−16·9	+ 0·5	5 6	43·58 43·69
449	+72 352	6·45 K 0	7 8 9·855	+698·21	− 4·92	+ 0·42	+71 54 4·11	− 587·4	−48·5	+ 2·0	16 17	42·18 42·01
450	+27 1327	5·60 A 2	7 8 17·067	+372·25	− 0·42	− 0·14	+26 56 26·24	− 588·4	−25·8	− 4·1	5 6	43·77 43·01

Position 1950 + T = Position 1950 + T (1st Term) + T^2 (2nd Term) + T′ (P.M.). T in centuries from 1950·0, T′ in centuries from epoch.

*440 3^m7 to 4^m1

No.	BD or CD No.	M + Sp.	R.A. 1950	Precession 1st Term	Precession 2nd Term	P.M.	Dec. 1950	Precession 1st Term	Precession 2nd Term	P.M.	No. Obs.	Epoch 1900+
	°		h m s	s	s	s	° ′ ″	″	″	″		
451	− 0 1634	5·40 F 0	7 8 50·285	+306·85	− 0·09	− 0·21	− 0 13 4·17	− 593·0	−21·2	− 1·2	6	46·34
452	− 0 1636	4·09 A 0	7 9 18·605	+306·41	− 0·09	− 0·03	− 0 24 30·69	− 597·0	−21·2	+ 0·6	3 19	48·80 43·44
453	+47 1411	6·62 A 5	7 9 29·482	+447·44	− 1·06	− 0·33	+47 41 35·74	− 598·5	−31·0	− 8·3	4	46·66
454	+51 1295	5·69 M a	7 9 29·798	+467·72	− 2·27	+ 0·08	+51 30 50·31	− 598·5	−32·4	+ 0·9	4 3	45·67 44·52
455	+12 1469	5·84 K 0	7 11 45·413	+334·82	− 0·22	− 0·37	+12 12 12·90	− 617·4	−23·0	− 2·0	6	44·64
456	− 6 2032	6·36 K 2	7 15 5·343	+292·72	− 0·05	− 0·10	− 6 35 20·80	− 645·0	−20·0	+ 1·0	6	46·28
457	+16 1443	3·65 A 2	7 15 13·226	+345·11	− 0·30	− 0·36	+16 37 56·16	− 646·1	−23·6	− 3·9	2 3	47·22 47·54
458	+ 2 1640	6·06 G 5	7 16 45·570	+313·57	− 0·14	− 0·03	+ 2 50 2·14	− 658·9	−21·4	− 1·8	5	45·53
459	−16 1898	* F 0	7 17 12·259	+270·46	+ 0·01	+ 1·10	−16 17 58·64	− 662·4	−18·4	−13·2	5 4	46·77 46·18
460	+87 51	5·26 M a	7 17 50·809	+2817·06	−172·41	− 4·80	+87 7 34·76	− 667·7	−193·4	− 3·4	169 168	40·41 40·60
461	+37 1707	5·21 K 0	7 18 42·388	+401·64	− 0·74	− 0·72	+36 51 23·77	− 674·9	−27·4	− 2·8	5	42·57
462	+20 1775	5·16 K 2	7 18 59·944	+354·45	− 0·37	− 0·44	+20 32 22·90	− 677·3	−24·2	− 3·1	6 6	40·68 41·68
463	+82 201	5·11 M b	7 20 40·979	+1261·80	−28·57	− 0·02	+82 30 50·61	− 691·1	−86·2	− 4·1	72 68	37·56 38·07
464	+28 1385	3·89 K 0	7 22 37·459	+373·53	− 0·54	− 0·92	+27 53 57·65	− 707·0	−25·3	− 8·9	6 7	40·87 40·93
465	−13 2001	5·82 F 0	7 22 50·557	+276·98	− 0·02	− 1·42	−13 39 8·34	− 708·8	−18·7	− 1·1	6	44·82
466	+ 8 1774	3·09 B 8	7 24 26·360	+325·72	− 0·22	− 0·38	+ 8 23 29·95	− 721·8	−22·0	− 4·0	4 33	46·16 40·37
467	−22 1874	5·48 B2p	7 24 52·209	+254·50	+ 0·04	− 0·08	−22 59 1·89	− 725·4	−17·1	+ 0·1	3 4	47·48 46·41
468	+78 254	7·40 G 0	7 25 21·691	+935·52	−14·22	− 1·22	+78 47 38·55	− 729·3	−63·2	−10·6	6 9	43·01 42·35
469	+ 9 1660	4·60 K 0	7 25 26·476	+327·10	− 0·23	− 0·42	+ 9 1 41·70	− 730·0	−22·0	+ 1·4	3 4	39·87 40·22
470	+28 1400	5·09 K 0	7 26 42·260	+373·41	− 0·56	− 0·23	+28 1 16·39	− 740·3	−25·1	− 2·7	3	39·49
471	+12 1567	4·85 K 0	7 27 0·841	+333·96	− 0·28	− 0·02	+12 6 41·86	− 742·8	−22·4	− 1·7	5 30	48·37 41·72
472	− 4 1979	6·38 K 0	7 28 23·016	+296·24	− 0·08	− 0·07	− 5 7 12·51	− 753·9	−19·8	− 0·8	7	47·16
473	+17 1596	5·64 K 0	7 28 55·446	+345·60	− 0·36	+ 0·34	+17 11 38·82	− 758·4	−23·2	− 8·4	7	40·33
474	+46 1286	5·80 K 5	7 32 54·113	+435·78	− 1·30	− 0·29	+46 17 33·38	− 790·4	−29·0	− 3·9	9 10	41·85 41·59
475	− 7 2065	6·43 K 2	7 33 51·640	+289·67	− 0·06	+ 0·23	− 8 11 56·77	− 798·1	−19·2	+ 0·1	7 8	42·49 43·19
476	−19 1967	5·66 B 3	7 34 29·116	+263·76	+ 0·02	− 0·04	−19 35 23·28	− 803·1	−17·4	+ 0·3	7	44·89
477	− 3 1979	5·17 F 5	7 34 47·524	+298·77	− 0·10	− 0·51	− 3 59 52·76	− 805·5	−19·8	+ 1·6	4 12	46·14 43·28
478	+14 1713	6·66 B 9	7 35 1·739	+338·18	− 0·33	+ 0·13	+14 9 26·13	− 807·4	−22·4	− 9·8	5	43·59
479	+33 1560	6·91 G 5	7 35 7·031	+387·64	− 0·77	− 0·08	+33 18 4·36	− 808·1	−25·6	− 4·3	4	43·71
480	+54 1167	6·59 B 9	7 35 15·109	+475·68	− 1·92	− 0·14	+54 0 59·06	− 809·2	−31·5	− 7·6	2 4	45·18 46·18
481	+ 5 1739	0·48 F 5	7 36 41·	+318·75	− 0·22	− 4·74	+ 5 21 26·22	− 820·7	−21·0	−102·9	0 24	40·28
482	+23 1780	6·18 K 5	7 37 58·970	+359·28	− 0·52	− 0·08	+23 8 8·54	− 831·0	−23·6	− 0·4	7 6	43·44 44·16
483	+ 0 2054	6·36 G 5	7 40 31·396	+307·98	− 0·16	+ 0·05	+ 0 18 33·28	− 851·2	−20·2	− 1·2	8 7	42·56 41·62
484	+39 1998	6·75 F 8	7 41 32·495	+407·50	− 1·06	+ 0·40	+39 41 21·56	− 859·2	−26·6	−68·7	4 5	38·18 37·99
485	+65 593	6·00 K 0	7 41 54·313	+572·97	− 4·08	+ 0·28	+65 34 40·10	− 862·1	−37·5	+ 1·9	14 15	40·41 40·33
486	+63 733	6·35 A 5	7 41 56·726	+543·57	− 3·40	− 0·50	+62 57 13·93	− 862·4	−35·6	− 6·0	8 13	42·30 41·24
487	+28 1463	1·21 K 0	7 42 15·980	+371·82	− 0·66	− 4·74	+28 8 55·52	− 864·8	−24·2	− 5·2	9 8	40·42 40·95
488	+18 1733	5·02 K 2	7 43 13·889	+347·89	− 0·45	− 0·54	+18 38 1·68	− 872·6	−22·6	− 6·1	7 8	38·51 38·47
489	−22 2027	5·84 B 5	7 45 3·588	+257·95	+ 0·03	− 0·09	−22 23 43·36	− 886·9	−16·6	+ 0·4	8	41·72
490	+ 5 1790	6·95 K 0	7 45 23·989	+318·93	− 0·24	− 0·07	+ 5 32 6·54	− 889·6	−20·6	− 3·6	8	39·42
491	+26 1656	6·82 G 5	7 46 44·673	+366·57	− 0·64	− 0·26	+26 23 26·42	− 900·1	−23·6	− 1·8	8	38·57
492	−24 6030	3·47 G0p	7 47 11·417	+252·39	+ 0·04	− 0·03	−24 43 59·85	− 903·6	−16·2	− 0·3	5 4	43·03 41·75
493	−10 2253	6·32 K 0	7 48 33·077	+284·21	− 0·06	+ 0·02	−10 59 58·87	− 914·2	−18·2	− 4·2	5	48·11
494	+ 2 1808	5·11 B 8	7 49 6·377	+311·26	− 0·20	− 0·15	+ 1 53 45·22	− 918·5	−20·0	− 0·5	7 20	49·44 44·61
495	−13 2267	5·34 G 0	7 49 27·	+278·26	− 0·03	− 0·45	−13 45 47·36	− 921·2	−17·8	−34·4	0 7	38·47
496	− 2 2322	6·86 A 5	7 49 37·939	+301·26	− 0·14	− 0·22	− 2 55 28·33	− 922·6	−19·2	− 0·4	6	45·67
497	+20 1946	5·36 A 0	7 52 44·908	+350·23	− 0·52	− 0·12	+20 1 3·18	− 946·7	−22·3	− 4·5	10 10	39·70 39·51
498	+30 1612	6·86 K 0	7 53 8·046	+375·23	− 0·78	− 0·03	+29 59 7·99	− 949·7	−23·9	+ 1·1	8	39·22
499	+44 1693	6·47 K 0	7 54 46·152	+420·96	− 1·42	+ 0·38	+44 6 46·02	− 962·2	−26·8	+ 0·8	13	42·95
500	−29 5236	4·85 A 2	7 55 40·450	+239·26	+ 0·06	− 0·06	−30 11 55·34	− 969·2	−15·0	+ 0·6	4 3	46·69 46·51

Position 1950 + T = Position 1950 + T (1st Term) + T^2 (2nd Term) + T′ (P.M.). T in centuries from 1950·0, T′ in centuries from epoch.

*459 5m4 to 6m0

No.	BD or CD No.	M + Sp.	R.A. 1950	Precession 1st Term	Precession 2nd Term	P.M.	Dec. 1950	Precession 1st Term	Precession 2nd Term	P.M.	No. Obs.	Epoch 1900+
	°		h m s	s	s	s	° ′ ″	″	″	″		
501	+ 2 1833	5·40 K 0	7 55 45·188	+312·15	− 0·21	− 1·07	+ 2 21 32·98	− 969·8	−19·6	+ 9·7	17 16	41·62 41·39
502	+13 1811	6·20 K 5	7 56 47·644	+335·07	− 0·40	− 0·12	+13 22 45·97	− 977·8	−21·1	− 1·6	10 10	39·41 40·02
503	−18 2118	4·64 A 2	7 57 37·545	+268·92	0·00	− 0·07	−18 15 38·55	− 984·1	−16·8	− 5·0	7 10	41·93 41·82
504	+ 9 1843	6·11 F 5	7 59 7·865	+325·81	− 0·32	− 0·04	+ 9 3 11·73	− 995·5	−20·4	+ 2·5	7 8	38·35 38·96
505	− 5 2339	6·30 G 0	7 59 58·547	+294·77	− 0·11	+ 0·07	− 6 11 47·51	−1002·0	−18·4	− 2·8	7 11	49·28 46·26
506	+13 1831	5·11 A 0	8 2 17·546	+334·45	− 0·41	− 0·23	+13 15 43·92	−1019·4	−20·8	− 7·1	1 7	48·14 37·91
507	−25 5530	6·66 K 2	8 2 26·483	+252·34	+ 0·06	− 0·08	−25 33 23·39	−1020·6	−15·6	− 1·0	6 7	46·34 45·33
508	− 0 1903	6·60 K 0	8 3 16·432	+306·47	− 0·18	− 0·15	− 0 25 45·87	−1026·8	−19·0	− 1·4	6	42·03
509	−20 2395	5·25 A 3	8 5 5·599	+264·84	+ 0·02	− 0·11	−20 24 30·96	−1040·5	−16·2	− 0·9	3 4	44·87 43·72
510	+84 169	6·39 A 0	8 5 13·739	+1432·90	−64·13	− 0·77	+84 12 30·74	−1041·4	−89·1	− 2·2	80 77	45·06 45·08
511	−23 6828	2·88 F 5	8 5 24·831	+256·15	+ 0·05	− 0·60	−24 9 32·35	−1042·9	−15·8	+ 5·1	3	43·53
512	+35 1767	6·64 F 8	8 6 56·291	+388·71	− 1·07	+ 1·63	+35 36 25·44	−1054·3	−23·9	−23·7	7	39·18
513	+53 1221	6·81 F 5	8 7 20·041	+460·15	− 2·35	+ 0·28	+53 23 41·83	−1057·1	−28·3	− 7·0	4 5	46·41 44·99
514	+25 1865	5·83 G 5	8 7 26·715	+361·84	− 0·72	− 0·48	+25 39 41·68	−1058·0	−22·2	−35·2	6	40·86
515	+15 1775	6·14 A 0	8 8 10·402	+377·20	− 0·46	− 0·18	+14 46 43·92	−1063·4	−20·6	− 2·0	4 5	42·68 41·59
516	+49 1711	7·08 K 0	8 8 33·234	+437·98	− 1·92	− 0·13	+49 6 33·15	−1066·2	−26·8	− 0·5	5	41·18
517	+56 1278	5·90 K 0	8 9 51·872	+478·33	− 2·81	− 0·20	+56 36 15·08	−1075·8	−29·2	− 3·6	5	41·61
518	+ 9 1917	3·76 K 2	8 13 48·301	+325·67	− 0·36	− 0·34	+ 9 20 27·95	−1104·8	−19·5	− 5·1	13 62	49·17 42·40
519	+ 4 1945	6·68 *	8 14 40·594	+315·83	− 0·28	+ 0·01	+ 4 22 29·38	−1111·2	−18·9	+ 0·1	5	46·36
520	+82 235	6·17 A 0	8 15 3·358	+1161·49	−42·24	− 0·67	+82 35 26·26	−1113·9	−70·2	− 2·9	12 11	41·94 41·87
521	−15 2362	6·31 A 0	8 15 5·538	+275·21	− 0·01	− 0·13	−16 7 44·14	−1114·2	−16·4	− 1·0	3	45·20
522	+72 409	6·20 K 5	8 15 12·020	+660·88	− 9·01	+ 0·12	+72 33 54·68	−1115·0	−39·8	− 2·8	11	41·66
523	− 9 2471	6·32 A 5	8 16 51·289	+287·83	− 0·08	− 0·43	−10 0 31·39	−1127·0	−17·0	+ 2·9	7 9	40·78 40·88
524	+24 1909	5·87 A 0	8 17 33·931	+356·84	− 0·72	− 0·15	+24 10 52·26	−1132·1	−21·2	− 2·6	9	40·34
525	+61 1043	6·48 G 5	8 18 32·865	+503·97	− 3·72	+ 0·13	+60 47 29·48	−1139·1	−30·0	− 0·5	13 15	41·00 40·83
526	+32 1725	7·48 A 3	8 20 43·900	+376·78	− 1·02	− 0·04	+32 27 20·58	−1154·8	−22·2	0·0	6	39·22
527	+11 1830	6·29 K 5	8 21 11·185	+328·12	− 0·40	+ 0·03	+10 47 40·61	−1158·1	−19·2	− 2·7	6 8	39·73 39·73
528	−23 7277	5·55 K 5	8 22 54·154	+259·30	+ 0·06	− 0·22	−23 52 58·64	−1170·3	−15·0	+ 2·7	4	42·73
529	+17 1842	6·18 F 2	8 23 0·300	+340·92	− 0·55	− 1·32	+17 12 45·70	−1171·0	−20·0	−15·8	8	40·35
530	− 3 2339	3·95 A 0	8 23 9·733	+300·24	− 0·16	− 0·46	− 3 44 31·41	−1172·1	−17·4	− 2·6	13 29	48·25 44·79
531	+ 8 2053	5·23 K 0	8 23 13·896	+322·03	− 0·35	− 0·23	+ 7 43 43·75	−1172·7	−18·8	− 0·8	6 7	40·06 40·23
532	−14 2517	5·91 A 2	8 23 36·169	+278·80	− 0·02	− 0·09	−14 45 56·36	−1175·2	−16·2	+ 3·0	7 5	47·03 46·59
533	− 3 2345	5·41 A 5	8 23 57·327	+300·10	− 0·16	− 0·36	− 3 49 18·68	−1177·7	−17·4	− 6·2	6	45·21
534	+26 1789	6·67 A 0	8 26 49·563	+360·41	− 0·82	− 0·23	+26 21 38·85	−1198·0	−20·8	− 1·5	11	39·21
535	+36 1836	6·14 F 2	8 30 9·709	+386·03	− 1·26	− 1·17	+36 36 26·46	−1221·2	−22·0	− 0·6	8 10	39·47 40·12
536	+10 1837	5·98 A 0	8 34 23·205	+325·42	− 0·41	− 0·22	+ 9 49 50·11	−1250·4	−18·2	− 1·2	6	43·89
537	−18 2416	7·06 G 5	8 34 41·489	+272·41	+ 0·02	+ 0·03	−18 30 19·42	−1252·4	−15·2	− 2·7	4	47·22
538	+65 643	5·69 G 0	8 34 46·713	+532·97	− 5·26	− 0·38	+65 11 44·40	−1253·0	−30·0	+ 8·5	10 10	44·23 43·73
539	+ 6 2001	4·18 A 0	8 35 0·593	+318·06	− 0·33	− 0·47	+ 5 52 45·32	−1254·6	−17·8	− 1·2	10 31	48·98 43·80
540	+20 2149	6·68 F 0	8 36 50·456	+344·92	− 0·66	− 0·25	+19 57 20·49	−1267·0	−19·2	− 1·7	5 7	43·62 43·81
541	+51 1443	6·96 G 5	8 37 4·710	+437·88	− 2·46	− 0·24	+51 36 28·42	−1268·6	−24·4	+ 5·0	5 6	41·21 41·22
542	+82 253	6·69 A 0	8 37 31·841	+1083·44	−43·46	− 0·44	+82 25 13·28	−1271·7	−60·7	− 2·0	7 8	45·36 44·79
543	+46 1422	5·52 K 0	8 37 34·176	+414·30	+ 1·92	+ 0·21	+46 0 38·45	−1272·0	−23·1	+ 8·5	3 5	44·57 43·25
544	+ 3 2039	4·32 B 3	8 40 36·714	+313·71	− 0·29	− 0·12	+ 3 34 45·62	−1292·4	−17·2	− 0·5	5 6	45·22 44·06
545	+18 2027	4·17 K 0	8 41 50·734	+341·03	− 0·63	− 0·14	+18 20 23·42	−1300·6	−18·6	−23·3	13 43	47·37 42·91
546	+31 1876	6·14 K 0	8 42 17·657	+368·02	− 1·05	0·00	+30 52 49·45	−1303·7	−20·1	− 0·8	5	45·98
547	+ 6 2030	6·00 A 2	8 42 22·446	+317·75	− 0·34	− 0·02	+ 5 51 47·44	−1304·1	−17·3	− 0·8	4	46·44
548	−20 2667	6·13 A 2	8 42 40·916	+268·46	+ 0·06	+ 0·04	−20 59 6·51	−1306·2	−14·6	+ 2·5	2	45·21
549	−10 2634	6·47 K 5	8 43 42·950	+288·02	− 0·06	− 0·14	−10 49 25·76	−1313·0	−15·6	+ 2·3	6	42·57
550	+ 6 2036	3·48 F 8	8 44 7·894	+316·44	− 0·36	− 1·28	+ 6 36 12·44	−1315·8	−17·2	− 5·4	7 8	39·40 40·01

Position 1950 + T = Position 1950 + T (1st Term) + T^2 (2nd Term) + T′ (P.M.). T in centuries from 1950·0, T′ in centuries from epoch.

*519 G0 + A2

No.	BD or CD No.		M + Sp.		R.A. 1950			Precession 1st Term	Precession 2nd Term	P.M.	Dec. 1950			Precession 1st Term	Precession 2nd Term	P.M.	No. Obs.		Epoch 1900+	
	°				h	m	s	s	s	s	°	′	″	″	″	″				
551	− 1	2130	5·22	A 0	8	44	42·957	+304·32	− 0·20	− 0·22	− 1	42	46·42	−1319·6	−16·4	− 0·2	4	6	42·76	41·92
552	+89	13	7·01	A 0	8	45	53·952	+4973·00	−1446·60	− 2·79	+88	46	14·81	−1327·4	−271·3	+ 0·7	53	44	37·65	37·64
553	+44	1797	5·24	G 5	8	48	35·948	+402·71	− 1·81	− 0·10	+43	54	50·37	−1345·0	−21·4	+ 4·1	6	7	43·70	43·06
554	+59	1198	6·08	F 0	8	49	9·987	+473·43	− 3·78	+ 0·20	+59	14	42·69	−1348·7	−25·2	− 0·2	5		43·85	
555	− 8	2518	7·42	*	8	51	48·550	+292·58	− 0·09	− 0·06	− 8	34	12·32	−1365·7	−15·3	− 0·3	4		47·44	
556	+78	297	7·40	F 0	8	51	57·748	+780·87	−20·46	− 0·55	+78	20	17·54	−1366·7	−41·3	− 1·0	9		43·87	
557	+ 6	2060	3·30	K 0	8	52	45·123	+317·81	− 0·35	− 0·69	+ 6	8	12·80	−1371·7	−16·6	+ 1·0	13	41	47·68	43·42
558	−17	2691	5·90	K 0	8	52	54·461	+275·60	+ 0·04	+ 0·23	−18	2	58·66	−1372·7	−14·4	− 1·9	3		46·91	
559	+12	1941	5·70	K 0	8	53	11·816	+327·67	− 0·48	− 0·07	+11	49	6·68	−1374·6	−17·1	− 1·5	4		46·14	
560	+22	2029	7·01	G 5	8	54	12·011	+346·55	− 0·76	+ 0·02	+22	3	12·99	−1380·9	−18·0	− 0·9	5		44·38	
561	+12	1948	4·27	A 3	8	55	45·226	+327·87	− 0·49	+ 0·22	+12	3	8·99	−1390·7	−17·0	− 3·4	10	45	46·13	42·22
562	+48	1707	3·12	A 5	8	55	47·844	+415·06	− 2·23	− 4·43	+48	14	23·49	−1391·0	−21·4	−24·0	3	4	44·92	44·51
563	+38	1986	6·54	K 5	8	57	20·432	+381·46	− 1·45	− 0·04	+37	48	1·09	−1400·7	−19·6	− 0·6	6	7	42·56	43·22
564	+ 0	2449	5·80	K 0	8	59	24·731	+306·86	− 0·22	− 0·37	− 0	17	11·00	−1413·6	−15·5	+ 7·6	7	8	42·35	42·22
565	+47	1633	3·68	A 0	9	0	13·287	+409·82	− 2·17	− 0·35	+47	21	21·26	−1418·6	−20·8	− 5·8	7	9	39·37	39·91
566	− 4	2530	6·74	A 0	9	1	13·931	+299·15	− 0·14	− 0·11	− 4	58	21·75	−1424·8	−15·0	+ 0·5	4	6	40·24	41·58
567	+ 5	2116	5·41	K 0	9	3	20·499	+315·95	− 0·34	− 0·11	+ 5	17	35·34	−1437·7	−15·7	− 1·0	6		38·42	
568	+30	1817	5·38	G 5	9	5	0·218	+360·36	− 1·08	− 0·22	+29	51	23·69	−1447·9	−17·8	− 0·5	4		44·26	
569	+11	1984	5·14	B 8	9	5	2·435	+325·07	− 0·46	− 0·17	+10	52	14·08	−1448·0	−16·0	− 1·0	6	27	46·17	41·86
570	+84	196	6·26	F 0	9	5	16·315	+1246·19	−78·54	+ 1·79	+84	23	10·54	−1449·4	−62·4	+ 0·9	69	71	44·94	44·91
571	+27	1715	5·96	G 5	9	5	51·127	+353·89	− 0·96	− 0·92	+26	50	16·59	−1453·0	−17·4	−37·4	4		46·12	
572	−26	6766	6·20	A 2	9	6	32·865	+261·45	+ 0·16	− 0·27	−26	33	51·74	−1457·1	−12·8	+ 1·2	2		47·71	
573	−11	2565	5·81	K 0	9	6	47·634	+287·59	− 0·02	+ 0·08	−12	9	14·85	−1458·6	−14·1	− 1·5	7		40·12	
574	+64	723	4·74	*	9	6	49·031	+492·88	− 5·12	+ 1·50	+63	43	7·45	−1458·7	−24·3	− 6·6	6	9	42·80	43·02
575	+18	2138	6·75	A 0	9	9	8·565	+337·22	− 0·67	− 0·25	+18	15	0·21	−1472·6	−16·4	− 2·6	8	9	38·85	38·57
576	+ 2	2167	3·84	A 0	9	11	45·785	+311·27	− 0·29	+ 0·86	+ 2	31	36·46	−1488·0	−14·8	−31·4	17	56	47·59	44·00
577	+54	1285	4·89	A 5	9	12	36·180	+431·06	− 3·04	+ 0·64	+54	13	47·44	−1493·0	−20·6	+ 5·5	6		41·58	
578	+ 1	2267	6·54	F 5	9	14	5·939	+308·77	− 0·25	− 0·66	+ 0	56	19·82	−1501·7	−14·6	− 1·5	4	6	41·00	41·75
579	+47	1658	5·70	A 0	9	14	10·408	+402·28	− 2·20	+ 0·21	+47	1	36·99	−1502·1	−19·1	+ 0·8	5	7	43·23	42·25
580	− 5	2762	5·40	K 0	9	14	12·704	+297·81	− 0·12	+ 0·13	− 6	8	36·20	−1502·3	−14·0	+ 0·3	5	6	47·73	47·64
581	+74	393	6·54	G 5	9	14	49·503	+619·53	−12·34	− 0·86	+74	13	43·68	−1505·9	−29·5	− 7·2	11	10	41·34	41·60
582	+23	2072	7·13	K 0	9	14	53·370	+345·27	− 0·84	− 0·28	+23	17	21·34	−1506·2	−16·2	− 1·7	5	6	41·85	41·92
583	−16	2749	6·91	A 0	9	16	37·256	+281·29	+ 0·06	+ 0·13	−16	35	21·35	−1516·2	−13·1	− 2·3	4	5	42·75	42·86
584	+35	1979	3·30	K 5	9	18	0·970	+367·20	− 1·33	− 1·81	+34	36	18·44	−1524·1	−17·1	+ 1·3	9		41·92	
585	+57	1214	5·98	M b	9	18	3·994	+440·46	− 3·51	− 0·10	+56	54	45·42	−1524·4	−20·5	− 1·3	7		41·82	
586	+13	2074	6·58	F 5	9	18	34·850	+327·82	− 0·54	− 0·29	+13	19	33·58	−1527·3	−15·1	− 8·6	6	8	40·28	40·65
587	−25	7114	4·93	M a	9	19	16·682	+265·74	+ 0·18	− 0·07	−25	45	6·48	−1531·3	−12·2	− 1·0	6	7	44·71	45·07
588	−28	7196	4·90	K 0	9	21	2·315	+260·71	+ 0·22	− 1·06	−28	37	8·42	−1541·2	−11·8	+ 1·6	5		43·85	
589	+37	1978	6·45	A 5	9	21	17·540	+371·15	− 1·46	− 0·68	+36	48	10·29	−1542·6	−17·0	− 3·4	5	7	40·05	41·25
590	+17	2078	6·27	K 0	9	22	46·514	+332·89	− 0·64	− 0·60	+16	48	8·54	−1550·8	−15·1	− 2·2	7	8	40·84	40·27
591	−24	8060	6·91	B 9	9	23	23·132	+267·77	+ 0·18	− 0·14	−25	7	12·73	−1554·2	−12·0	+ 1·8	4	6	47·24	46·41
592	− 8	2680	2·16	K 2	9	25	7·805	+294·93	− 0·06	− 0·10	− 8	26	27·81	−1563·8	−13·1	+ 2·7	13	31	47·23	43·96
593	− 2	2901	4·78	F 5	9	26	36·623	+303·63	− 0·17	+ 0·85	− 2	32	58·16	−1571·8	−13·4	− 1·7	5		45·39	
594	+34	1999	5·98	K 0	9	27	42·258	+362·65	− 1·31	− 0·12	+33	52	36·20	−1577·8	−16·0	− 5·1	6		44·06	
595	+28	1768	6·59	A 0	9	28	22·582	+350·26	− 1·02	− 0·26	+27	36	30·43	−1581·4	−15·3	− 2·9	4		44·00	
596	+10	2014	5·28	K 0	9	29	16·855	+321·63	− 0·45	− 0·03	+ 9	56	14·72	−1586·2	−14·0	− 1·7	4	5	46·52	47·85
597	+52	1401	3·26	F8p	9	29	31·832	+411·37	− 2·78	−10·31	+51	54	25·97	−1587·6	−18·0	−54·2	3	2	46·58	45·28
598	+ 2	2217	6·15	F 5	9	30	6·344	+310·29	− 0·26	− 0·11	+ 2	5	12·00	−1590·6	−13·4	− 3·9	3		45·55	
599	+81	302	4·58	K 2	9	30	7·467	+854·48	−36·72	− 0·66	+81	33	0·51	−1590·8	−37·6	− 1·8	90	94	40·57	40·77
600	−12	2926	6·21	K 5	9	30	31·627	+288·17	+ 0·03	− 0·01	−13	17	40·41	−1592·9	−12·4	− 2·0	4		47·48	

Position 1950 + T = Position 1950 + T (1st Term) + T^2 (2nd Term) + T′ (P.M.). T in centuries from 1950·0, T′ in centuries from epoch.

*555 F0 + A2 *574 F5 + A5

No.	BD or CD No.		M + Sp.	R.A. 1950	Precession 1st Term	Precession 2nd Term	P.M.	Dec. 1950	Precession 1st Term	Precession 2nd Term	P.M.	No. Obs.		Epoch 1900+	
	°			h m s	s	s	s	° ′ ″	″	″	″				
601	+52	1402	4·65 A 0	9 31 24·630	+411·63	− 2·82	− 0·70	+52 16 30·97	−1597·6	−17·8	− 4·2	5		46·03	
602	−18	2728	6·25 A 0	9 33 14·227	+279·28	+ 0·13	− 0·28	−19 21 31·35	−1607·1	−11·8	− 4·9	6	6	44·85	44·67
603	+67	602	6·28 K 5	9 35 20·945	+497·66	− 6·77	− 0·13	+67 29 56·37	−1618·1	−21·0	− 4·5	15	13	41·69	42·06
604	+ 5	2207	4·78 K 0	9 35 50·906	+314·03	− 0·32	− 1·08	+ 4 52 33·37	−1620·7	−13·1	− 5·5	7		43·25	
605	+43	1943	6·63 K 0	9 36 0·548	+381·52	− 1·92	− 0·38	+43 22 17·31	−1621·5	−16·0	− 7·0	6	7	41·78	41·29
606	+20	2351	6·80 B 9	9 36 6·501	+336·71	− 7·60	− 0·15	+20 51 26·52	−1622·1	−14·0	− 1·5	5	6	42·28	43·11
607	− 0	2231	4·10 K 0	9 37 18·144	+306·08	− 0·20	+ 0·31	− 0 54 52·89	−1628·2	−12·7	− 6·9	7	10	48·61	46·00
608	− 9	2898	6·19 B 9	9 37 20·878	+293·11	− 0·01	− 0·19	−10 20 35·08	−1628·3	−12·1	+ 0·2	3		48·89	
609	+10	2044	3·76 *	9 38 29·045	+321·14	− 0·46	− 0·98	+10 7 14·93	−1634·1	−13·2	− 3·9	8	26	47·00	43·23
610	+40	2241	5·50 K 0	9 38 54·923	+372·03	− 1·68	− 0·45	+39 59 12·36	−1636·3	−15·2	− 4·6	5		43·82	
611	+49	1868	6·34 A 0	9 39 26·447	+394·75	− 2·41	− 0·26	+48 39 36·39	−1639·0	−16·2	− 1·9	4		46·27	
612	+35	2042	6·03 F 2	9 39 42·270	+361·74	− 1·40	− 0·12	+35 19 23·32	−1640·3	−14·8	− 5·5	4	5	45·50	44·86
613	+14	2136	5·62 M a	9 41 0·634	+326·67	− 0·56	− 0·01	+14 15 4·25	−1646·9	−13·2	− 0·4	6	6	40·12	40·29
614	−22	2705	6·78 G 5	9 42 18·549	+276·01	+ 0·20	− 0·42	−22 31 18·45	−1653·3	−11·0	+ 0·6	11	11	46·58	46·50
615	+24	2129	3·12 G0p	9 43 1·021	+340·82	− 0·88	− 0·35	+24 0 19·53	−1656·8	−13·6	− 1·6	10	11	41·96	42·44
616	+19	2254	6·92 K 0	9 43 5·433	+333·08	− 0·71	+ 0·16	+18 54 53·24	−1657·1	−13·3	− 1·9	8		40·80	
617	+ 7	2181	5·99 M a	9 43 31·845	+316·45	− 0·37	+ 0·03	+ 6 56 24·87	−1659·3	−12·6	− 3·4	10	11	42·58	42·74
618	+59	1268	3·89 F 0	9 47 27·424	+430·22	− 4·02	− 3·86	+59 16 31·71	−1678·3	−16·8	−15·7	12	13	41·53	41·44
619	+25	2169	5·33 A 2	9 49 2·925	+340·46	− 0·90	+ 0·06	+24 37 59·92	−1685·9	−13·0	−18·4	10		40·35	
620	+61	1151	6·42 K 0	9 51 25·649	+437·46	− 4·50	+ 0·09	+61 21 10·69	−1697·0	−16·6	− 0·4	12	16	43·54	43·79
621	+33	1920	6·60 F 2	9 53 35·730	+352·14	− 1·26	− 0·37	+32 37 20·06	−1707·1	−13·0	+ 0·7	12	14	40·93	41·55
622	− 6	3033	7·03 K 0	9 53 38·951	+298·23	− 0·04	− 0·20	− 7 24 26·91	−1707·3	−11·0	− 0·6	6	7	40·12	39·57
623	+57	1242	5·71 K 5	9 56 26·120	+413·17	− 3·56	− 0·37	+57 3 8·03	−1719·9	−15·0	− 3·5	4	5	45·48	44·45
624	+22	2148	6·61 A 2	9 56 41·259	+334·38	− 0·79	− 0·29	+21 33 39·62	−1721·1	−12·1	+ 2·7	5		46·02	
625	+ 8	2301	4·89 M a	9 57 34·351	+317·23	− 0·40	− 0·23	+ 8 17 5·76	−1725·0	−11·4	− 2·7	14	54	47·66	43·21
626	− 0	2285	7·02 K 0	10 0 16·010	+306·37	− 0·17	+ 0·06	− 0 49 28·42	−1736·9	−10·8	− 8·9	10	10	42·40	41·79
627	+84	225	6·48 K 0	10 0 52·269	+956·44	−66·54	− 0·30	+84 9 43·97	−1739·6	−34·2	+ 0·4	13	12	41·58	41·03
628	−23	8973	5·80 F 0	10 2 2·315	+277·98	+ 0·29	− 0·71	−24 2 34·39	−1744·6	− 9·6	+ 2·0	8	9	45·08	45·32
629	+45	1798	7·49 F 2	10 4 2·068	+372·78	− 2·08	− 0·11	+45 18 15·88	−1753·1	−12·8	− 1·7	6	8	44·55	45·97
630	+ 6	2259	6·29 G 5	10 4 10·609	+313·96	− 0·32	− 0·23	+ 5 51 21·64	−1753·7	−10·7	− 2·1	7	8	42·97	43·51
631	+17	2171	3·58 A0p	10 4 36·548	+327·04	− 0·64	− 0·04	+17 0 25·88	−1755·5	−11·2	− 0·6	7	34	48·25	42·84
632	+12	2149	1·34 B 8	10 5 43·	+321·16	− 0·49	− 1·69	+12 12 44·47	−1760·2	−10·8	+ 0·3	0	8		39·09
633	+19	2307	7·11 G 5	10 6 23·868	+328·94	− 0·70	+ 0·38	+18 46 38·19	−1763·1	−11·0	− 6·8	6	7	45·75	45·96
634	−12	3101	5·42 F 0	10 7 39·609	+293·30	+ 0·10	− 0·87	−12 34 4·40	−1768·2	− 9·8	−11·7	7		47·22	
635	+41	2063	6·51 K 0	10 7 58·523	+361·69	− 1·74	− 0·12	+40 54 29·25	−1769·6	−12·0	− 1·0	6		41·43	
636	−11	2820	3·83 K 0	10 8 8·988	+293·89	+ 0·08	− 1·38	−12 6 22·27	−1770·3	− 9·6	− 9·3	12	32	47·15	44·20
637	+38	2110	6·14 K 0	10 8 15·383	+355·62	− 1·52	− 0·24	+37 38 56·74	−1770·7	−11·8	− 3·3	5	6	42·46	41·94
638	+28	1852	6·96 G 5	10 9 52·420	+340·85	− 1·06	− 0·24	+28 29 23·52	−1777·3	−11·1	− 1·7	7	6	42·28	42·12
639	+79	328	6·72 A 0	10 11 8·501	+627·52	−21·70	+ 0·55	+79 11 44·64	−1782·4	−20·6	− 0·5	13	14	43·34	43·34
640	+24	2207	5·91 G 0	10 13 46·520	+333·62	− 0·86	− 1·48	+23 45 7·90	−1792·8	−10·5	+ 2·9	6		40·46	
641	+71	534	6·58 A 3	10 13 51·165	+483·80	− 8·69	− 0·68	+71 18 41·36	−1793·1	−15·4	− 5·2	14	13	41·49	41·28
642	+14	2228	5·74 M a	10 13 59·823	+322·17	− 0·54	− 0·15	+13 58 41·90	−1793·6	−10·1	− 2·2	6		38·64	
643	+43	2005	3·52 A 2	10 14 5·500	+363·20	− 1·89	− 1·52	+43 9 53·60	−1794·1	−11·4	− 4·5	5	7	38·91	39·74
644	−18	2855	6·57 A 2	10 14 9·460	+286·76	+ 0·24	− 0·17	−19 3 30·03	−1794·3	− 8·9	− 1·3	6	6	47·04	46·87
645	− 7	3001	5·40 F 0	10 15 8·711	+299·23	+ 0·01	− 1·09	− 7 49 7·36	−1798·1	− 9·3	+ 0·1	3	16	47·45	42·52
646	+54	1367	6·22 K 0	10 17 17·888	+388·39	− 3·05	− 0·43	+54 28 7·21	−1806·3	−11·8	− 1·0	6		45·75	
647	+ 3	2352	6·53 B 3	10 18 27·091	+309·87	− 0·22	− 0·08	+ 2 32 30·42	−1810·7	− 9·3	− 0·4	6		45·08	
648	−22	2904	6·48 A 3	10 19 7·383	+282·63	+ 0·34	− 0·36	−23 27 30·42	−1813·2	− 8·4	+ 2·0	7		47·37	
649	+42	2115	3·21 K 5	10 19 21·496	+358·03	− 1·78	− 0·74	+41 45 6·21	−1814·1	−10·6	+ 2·9	6		46·13	
650	+34	2120	5·83 A 3	10 20 13·856	+345·56	− 1·31	− 0·10	+34 9 40·37	−1817·3	−10·2	− 1·4	6		43·61	

Position 1950 + T = Position 1950 + T (1st Term) + T^2 (2nd Term) + T′ (P.M.). T in centuries from 1950·0, T′ in centuries from epoch.

*609 F5 + A3

No.	BD or CD No.		M + Sp.	R.A. 1950	Precession 1st Term	Precession 2nd Term	P.M.	Dec. 1950	Precession 1st Term	Precession 2nd Term	P.M.	No. Obs.	Epoch 1900+	
	°			h m s	s	s	s	° ′ ″	″	″	″			
651	+ 9	2351	5·92 M a	10 22 37·152	+316·09	− 0·38	+ 0·07	9 2 23·14	−1826·0	− 9·1	− 4·2	6	47·09	
652	+84	234	5·64 A 3	10 22 42·761	+879·76	−67·14	− 8·94	+84 30 28·88	−1826·4	−26·0	− 4·1	25 23	37·95	37·75
653	−16	3052	4·06 K 5	10 23 40·236	+291·09	+ 0·22	− 0·89	−16 34 48·67	−1829·8	− 8·3	− 8·3	2 8	48·72	43·17
654	+60	1263	7·01 K 0	10 24 26·854	+400·49	− 3·94	− 0·79	+59 51 10·40	−1832·6	−11·4	− 3·3	9 11	45·51	45·96
655	+83	297	5·34 F 2	10 25 10·210	+733·47	−41·16	− 4·41	+82 48 51·92	−1835·1	−21·2	+ 2·5	84 73	42·72	43·24
656	+16	2123	7·17 F 8	10 25 45·656	+322·66	− 0·58	− 0·90	+16 0 40·58	−1837·2	− 9·0	− 1·0	5 6	39·88	40·13
657	+29	2057	6·92 K 0	10 27 5·689	+336·34	− 1·05	+ 0·07	+28 50 15·85	−1841·9	− 9·3	− 0·8	6	43·96	
658	+10	2166	3·85 B0p	10 30 10·775	+315·93	− 0·38	− 0·06	+ 9 33 52·21	−1852·3	− 8·4	− 0·6	12 56	47·33	43·26
659	+41	2101	4·84 A 5	10 30 19·324	+351·13	− 1·67	− 1·20	+40 41 1·23	−1852·8	− 9·4	− 0·8	8	45·75	
660	+35	2154	5·58 A 2	10 30 39·680	+343·21	− 1·34	− 0·24	+35 14 48·86	−1853·9	− 9·1	− 1·4	5	45·27	
661	+22	2236	7·32 K 0	10 31 40·400	+327·47	− 0·76	+ 0·03	+21 51 9·07	−1857·2	− 8·6	− 0·5	3	43·96	
662	+ 2	2334	6·73 K 2	10 32 31·444	+309·46	− 0·19	− 0·18	+ 2 27 48·19	−1860·0	− 8·0	+ 0·2	5 6	41·69	41·63
663	−11	2918	5·85 F 8	10 34 2·756	+296·96	+ 0·14	+ 1·75	−11 57 45·76	−1864·9	− 7·5	−68·0	7	41·73	
664	− 8	2963	7·12 G 0	10 34 30·368	+299·98	+ 0·07	− 0·66	− 8 34 45·63	−1866·4	− 7·6	− 5·9	5 6	41·32	41·32
665	−16	3100	5·11 K 0	10 36 8·686	+293·06	+ 0·26	− 0·71	−16 36 59·78	−1871·6	− 7·2	+ 2·2	7 8	41·86	41·42
666	+47	1797	7·30 A 2	10 37 9·157	+358·19	− 2·13	− 0·39	+47 6 8·21	−1874·7	− 8·8	− 5·0	11	41·83	
667	+81	349	6·70 A 0	10 38 39·710	+590·52	−24·46	+ 0·73	+80 41 20·58	−1879·4	−14·6	+ 0·9	13 15	41·63	41·95
668	+11	2269	7·29 K 5	10 39 38·898	+315·93	− 0·40	− 0·39	+10 37 3·92	−1882·3	− 7·5	− 3·2	9	40·65	
669	+ 5	2384	6·34 K 0	10 40 45·193	+311·29	− 0·24	+ 0·14	+ 5 0 37·98	−1885·7	− 7·3	− 3·4	9 10	39·31	39·92
670	−23	9500	6·81 K 0	10 42 4·188	+287·74	+ 0·44	− 0·10	−23 43 22·24	−1889·5	− 6·6	+ 2·1	6 6	40·82	42·48
671	+19	2371	5·64 K 0	10 43 43·004	+322·49	− 0·65	+ 0·64	+19 9 20·50	−1894·3	− 7·3	− 4·5	7 8	41·03	40·70
672	−25	8237	6·86 K 0	10 44 20·039	+286·40	+ 0·48	− 1·21	−25 47 5·67	−1896·0	− 6·4	+ 4·9	5	47·85	
673	− 1	2446	6·19 M a	10 46 7·560	+306·07	− 0·06	− 0·09	− 1 41 39·86	−1901·0	− 6·6	+ 0·5	6 7	45·42	45·81
674	+11	2283	5·27 A 0	10 46 37·808	+315·36	− 0·39	− 0·04	+10 48 37·06	−1902·4	− 6·8	− 2·8	10 53	44·95	42·13
675	+28	1931	6·12 F 5	10 47 9·070	+329·75	− 0·98	− 0·04	+28 14 18·47	−1903·8	− 7·1	+ 2·7	6	45·10	
676	+53	1440	6·58 K 0	10 49 32·774	+360·54	− 2·63	− 0·78	+52 46 12·84	−1910·3	− 7·5	− 5·9	9	40·77	
677	−12	3293	5·84 G 0	10 51 48·725	+297·93	+ 0·24	0·00	−13 29 29·98	−1916·2	− 6·0	+ 0·9	6	40·63	
678	+ 1	2501	6·05 F 2	10 53 7·966	+308·00	− 0·11	+ 0·70	+ 1 0 14·25	−1919·5	− 6·1	− 0·4	8	40·44	
679	+20	2538	6·94 K 0	10 55 57·183	+320·66	− 0·64	+ 0·11	+19 53 24·82	−1926·5	− 6·0	− 1·8	6 7	40·95	41·85
680	−18	3072	6·96 K 0	10 56 29·152	+294·50	+ 0·38	+ 0·28	−19 20 7·85	−1927·8	− 5·5	− 8·4	7 6	44·82	44·27
681	+36	2139	6·22 M a	10 56 45·678	+334·13	− 1·32	+ 0·59	+36 21 43·88	−1928·4	− 6·2	− 5·6	6	41·31	
682	− 9	3182	7·06 A 0	10 56 47·424	+300·87	+ 0·17	− 0·20	−10 3 25·05	−1928·6	− 5·6	+ 2·2	4	48·26	
683	+12	2284	6·36 F 5	10 57 4·426	+315·01	− 0·40	− 1·58	+11 58 25·38	−1929·2	− 5·8	+ 3·5	3 4	48·28	47·56
684	+ 4	2407	5·05 K 0	10 57 58·702	+309·76	− 0·18	+ 0·08	+ 3 53 10·84	−1931·3	− 5·6	− 1·8	13 27	47·61	43·86
685	+57	1302	2·44 A 0	10 58 50·184	+360·87	− 3·04	+ 0·97	+56 39 3·14	−1933·3	− 6·6	+ 2·7	5 6	42·74	42·50
686	− 2	3270	7·13 G 5	11 0 4·111	+305·37	+ 0·01	− 0·14	− 3 14 35·24	−1936·1	− 5·4	− 3·0	6	41·98	
687	+62	1160	7·12 F 8	11 0 17·768	+371·85	− 3·92	− 1·70	+61 55 29·33	−1936·7	− 6·6	− 7·3	9 12	45·30	45·25
688	+62	1161	1·95 K 0	11 0 39·667	+371·72	− 3·93	− 1·74	+62 1 16·90	−1937·5	− 6·6	− 7·1	4 8	47·65	46·43
689	+32	2102	7·32 G 5	11 1 55·343	+328·03	− 1·08	− 0·21	+31 42 22·81	−1940·3	− 5·6	+ 1·6	6	41·13	
690	+ 8	2455	4·66 F 0	11 2 26·349	+311·76	− 0·26	− 2·31	+ 7 36 24·06	−1941·3	− 5·2	− 4·9	14 47	47·63	43·20
691	−10	3190	6·14 A 3	11 3 3·315	+301·04	+ 0·20	+ 0·10	−10 49 3·30	−1942·7	− 5·0	−10·5	7	46·94	
692	+18	2452	6·59 K 5	11 4 5·099	+317·82	− 0·56	+ 0·16	+18 0 29·54	−1944·9	− 5·2	− 3·7	7 6	40·19	38·51
693	−20	3347	7·22 A 0	11 4 5·347	+295·00	+ 0·45	− 0·28	−20 53 46·83	−1944·9	− 4·8	− 1·2	5	46·28	
694	+72	515	6·87 F 0	11 5 0·706	+406·40	− 7·52	− 0·78	+72 13 47·91	−1946·8	− 6·6	− 1·3	12 13	43·20	43·06
695	+25	2344	5·63 A 2	11 6 8·300	+321·79	− 0·80	+ 0·04	+24 55 45·96	−1949·2	− 5·0	− 0·1	6	39·15	
696	+82	325	7·06 G 0	11 6 40·017	+526·73	−25·22	− 4·76	+82 0 20·87	−1950·2	− 8·5	−19·0	13	46·37	
697	+45	1897	3·15 K 0	11 6 51·600	+337·79	− 1·78	− 0·62	+44 46 13·03	−1950·6	− 5·2	− 3·1	6	40·00	
698	+48	1919	7·24 F 5	11 7 37·550	+341·02	− 2·03	− 0·33	+48 4 7·30	−1952·2	− 5·4	+ 4·8	6	43·61	
699	+86	161	7·17 A 2	11 8 48·897	+721·40	−75·41	− 4·03	+85 54 43·82	−1954·5	−11·2	+ 0·1	35 35	45·83	45·70
700	+69	602	6·42 A 2	11 9 0·832	+382·33	− 5·58	+ 0·53	+68 32 36·97	−1954·8	− 5·8	+ 0·7	12 13	44·71	45·15

Position 1950 + T = Position 1950 + T (1st Term) + T^2 (2nd Term) + T′ (P.M.). T in centuries from 1950·0, T′ in centuries from epoch.

No.	BD or CD No.		M + Sp.	R.A. 1950	Precession 1st Term	Precession 2nd Term	P.M.	Dec. 1950	Precession 1st Term	Precession 2nd Term	P.M.	No. Obs.		Epoch 1900+	
	°			h m s	s	s	s	° ′ ″	″	″	″				
701	−22	3095	4·52 A 2	11 9 11·719	+295·13	+ 0·51	+ 0·03	−22 33 8·45	−1955·2	− 4·3	−10·3	7		45·28	
702	+55	1446	6·48 A 2	11 9 50·577	+349·02	− 2·72	0·00	+55 9 58·84	−1956·4	− 5·1	− 0·8	5	6	44·88	45·27
703	+21	2298	2·58 A 3	11 11 26·941	+318·00	− 0·64	+ 1·02	+20 47 54·56	−1959·5	− 4·5	−13·6	2		38·82	
704	+16	2234	3·41 A 0	11 11 37·098	+315·19	− 0·48	− 0·43	+15 42 12·01	−1959·8	− 4·4	− 8·2	6	31	44·12	41·64
705	+23	2322	4·87 M a	11 12 32·813	+319·19	− 0·72	− 0·15	+23 22 5·79	−1961·4	− 4·4	− 1·2	6		41·83	
706	−18	3141	6·78 A 0	11 12 48·772	+297·73	+ 0·44	− 0·38	−19 21 52·67	−1961·9	− 4·0	− 1·0	5		47·48	
707	+14	2367	5·48 K 0	11 13 15·025	+313·87	− 0·40	− 0·05	+13 34 49·76	−1962·7	− 4·2	− 1·5	7		40·31	
708	− 6	3344	6·03 F 0	11 14 26·028	+304·15	+ 0·14	− 0·08	− 6 51 42·54	−1964·8	− 7·9	− 1·1	7	8	42·17	42·80
709	+ 2	2409	5·44 K 5	11 14 42·954	+308·37	− 0·09	+ 0·36	+ 2 17 9·84	−1965·3	− 4·0	−14·8	8		39·57	
710	+38	2225	4·78 A 2	11 16 24·756	+327·39	− 1·34	− 0·49	+38 27 37·21	−1968·1	− 4·1	− 7·6	9	10	41·10	40·62
711	− 0	2428	7·00 F 8	11 16 50·021	+306·73	0·00	− 1·53	− 1 22 43·74	−1968·9	− 3·7	−15·9	7		44·03	
712	−13	3345	3·82 K 0	11 16 50·338	+300·86	+ 0·34	− 0·85	−14 30 29·40	−1968·8	− 3·6	+20·0	6	22	46·48	42·64
713	+ 6	2437	4·13 A 0	11 18 33·500	+309·98	− 0·18	− 0·64	+ 6 18 12·63	−1971·6	− 3·6	− 1·3	12	45	48·54	43·39
714	+17	2356	5·63 F 2	11 23 0·125	+313·78	− 0·47	− 1·01	+16 43 53·66	−1978·2	− 3·2	− 1·4	9	8	41·74	40·67
715	+27	2021	7·15 A 2	11 23 6·892	+318·25	− 0·82	− 0·23	+27 1 19·73	−1978·4	− 3·3	+ 0·3	9		41·78	
716	+52	1563	7·22 F 0	11 23 8·304	+335·12	− 2·28	+ 0·11	+52 24 25·87	−1978·4	− 3·5	− 2·5	7		40·63	
717	+ 9	2494	6·82 K 0	11 23 42·725	+310·64	− 0·24	− 0·03	+ 8 56 5·89	−1979·2	− 3·2	− 2·3	7		41·19	
718	−20	3420	6·79 A 0	11 24 4·330	+299·28	+ 0·53	− 0·32	−21 4 52·02	−1979·7	− 3·0	− 1·0	4	6	45·51	44·76
719	+30	2163	6·78 F 0	11 27 25·651	+318·36	− 0·92	− 0·77	+30 14 36·70	−1984·1	− 2·8	−20·5	8		42·34	
720	+81	373	6·13 A 0	11 28 23·948	+428·82	−17·54	− 6·49	+81 24 9·52	−1985·2	− 3·8	+ 3·1	13	14	44·38	44·27
721	+70	665	4·06 M a	11 28 27·578	+356·64	− 5·26	− 0·78	+69 36 26·42	−1985·3	− 3·1	− 2·0	14	14	47·37	47·12
722	+ 3	2521	5·81 F 5	11 31 48·432	+308·28	− 0·08	− 1·22	+ 3 20 17·24	−1989·1	− 2·3	−10·8	6	7	44·80	44·45
723	− 3	3144	6·58 K 0	11 32 25·855	+306·19	+ 0·12	− 0·28	− 4 5 2·43	−1989·8	− 2·2	− 4·9	5		46·08	
724	+21	2331	6·44 K 0	11 32 27·367	+313·39	− 0·56	− 0·42	+20 43 5·00	−1989·8	− 2·3	− 1·2	5		42·92	
725	+11	2376	6·69 K 0	11 32 56·441	+310·52	− 0·29	+ 0·40	+11 27 56·34	−1990·3	− 2·2	− 3·5	3	4	45·94	46·26
726	− 0	2458	4·47 K 0	11 34 23·263	+307·19	+ 0·04	+ 0·02	− 0 32 51·65	−1991·7	− 2·1	+ 3·9	11	40	48·13	43·41
727	+78	392	6·71 K 5	11 34 36·564	+376·06	− 9·99	+ 0·20	+77 52 20·63	−1992·0	− 2·6	+ 0·9	9	10	47·05	46·88
728	+47	1894	6·25 F 2	11 35 53·866	+322·43	− 1·73	− 0·20	+47 6 42·23	−1993·2	− 2·0	− 3·4	5		41·33	
729	−15	3323	6·48 M a	11 37 18·513	+303·45	+ 0·46	− 0·09	−16 20 33·97	−1994·4	− 1·8	− 1·4	6		42·00	
730	− 7	3271	7·42 G 0	11 38 3·814	+305·51	+ 0·24	− 0·13	− 8 7 41·84	−1995·1	− 1·7	− 1·3	8	9	42·22	41·56
731	+36	2216	7·23 M b	11 42 58·123	+314·58	− 1·10	− 0·45	+36 10 17·32	−1998·7	− 1·3	+ 1·7	9	11	40·12	39·70
732	+48	1966	3·85 K 0	11 43 25·090	+318·07	− 1·72	− 1·38	+48 3 23·87	−1999·0	− 1·2	+ 2·3	14	13	42·41	41·81
733	+56	1544	5·41 K 0	11 44 15·585	+320·87	− 2·35	+ 0·15	+55 54 23·10	−1999·6	− 1·2	− 3·8	7	7	40·78	40·21
734	+62	1198	6·64 F 0	11 44 26·685	+324·14	− 3·02	− 0·52	+61 40 49·09	−1999·7	− 1·2	− 4·4	9	13	44·75	43·39
735	+ 9	2549	5·22 A 0	11 45 20·775	+308·61	− 0·18	− 0·39	+ 8 31 25·16	−2000·2	− 1·0	+ 0·6	9	8	42·32	42·95
736	+29	2214	7·21 F 2	11 45 49·830	+311·84	− 0·78	− 0·72	+28 41 42·42	−2000·4	− 1·0	− 1·8	6		41·00	
737	+15	2383	2·23 A 2	11 46 30·726	+309·42	− 0·35	− 3·43	+14 51 6·34	−2000·8	− 0·8	−11·9	8	34	46·57	42·99
738	+ 2	2489	3·80 F 8	11 48 5·164	+307·57	0·00	+ 4·94	+ 2 2 49·65	−2001·5	− 0·8	−27·5	9	36	45·64	41·53
739	−26	8807	6·53 K 0	11 48 5·352	+303·79	+ 0·80	− 0·67	−27 0 58·72	−2001·5	− 0·7	+ 0·2	3		47·36	
740	− 4	3152	5·81 K 0	11 48 28·751	+306·74	+ 0·19	+ 0·03	− 5 3 19·05	−2001·7	− 0·7	− 0·5	4	5	45·51	45·49
741	−11	3190	6·22 F 0	11 48 49·705	+305·96	+ 0·37	− 1·48	−11 54 38·36	−2001·9	− 0·6	+ 0·5	2		43·32	
742	+50	1871	7·07 K 2	11 49 37·696	+314·58	− 1·81	− 0·20	+50 12 33·81	−2002·2	− 0·6	+ 1·9	3		45·62	
743	+16	2307	6·73 A 2	11 50 11·645	+308·94	− 0·36	+ 0·23	+15 42 55·50	−2002·5	− 0·6	− 6·8	6		41·14	
744	+54	1475	2·54 A 0	11 51 12·474	+314·37	− 2·08	+ 1·04	+53 58 21·53	−2002·8	− 0·4	+ 0·6	7		41·74	
745	−16	3358	5·16 A 0	11 53 27·812	+306·17	+ 0·52	− 0·38	−16 52 20·78	−2003·5	− 0·2	− 1·1	6	8	42·82	42·56
746	+41	2253	6·54 F 5	11 54 40·601	+309·99	− 1·22	− 1·47	+40 37 22·63	−2003·7	− 0·1	− 7·1	7		42·59	
747	+33	2174	6·30 F 0	11 55 33·355	+308·98	− 0·88	− 0·84	+32 33 11·81	−2003·9	0·0	− 6·9	6		38·36	
748	+20	2664	7·06 M b	11 57 31·250	+307·84	− 0·45	− 0·70	+19 41 53·15	−2004·2	+ 0·2	− 3·1	4	5	38·34	37·94
749	− 9	3413	5·63 G 5	11 58 10·228	+307·14	+ 0·36	+ 0·83	−10 9 37·56	−2004·1	+ 0·2	−48·3	4		44·29	
750	+ 7	2502	4·57 A 3	11 58 18·620	+307·44	− 0·09	− 0·02	+ 6 53 35·10	−2004·2	+ 0·2	− 3·3	11	33	47·09	41·78

Position 1950 + T = Position 1950 + T (1st Term) + T^2 (2nd Term) + T′ (P.M.). T in centuries from 1950·0, T′ in centuries from epoch.

No.	BD or CD No.		M + Sp.	R.A. 1950	Precession 1st Term	Precession 2nd Term	P.M.	Dec. 1950	Precession 1st Term	Precession 2nd Term	P.M.	No. Obs.	Epoch 1900+
	°			h m s	s	s	s	° ′ ″	″	″	″		
751	+13	2482	6·93 A 0	11 58 40·132	+307·50	− 0·24	− 0·27	+12 39 22·33	−2004·2	+ 0·3	− 0·7	4 5	45·33 45·35
752	+65	863	7·25 A 3	11 59 4·119	+308·50	− 3·16	− 0·63	+65 13 4·49	−2004·3	+ 0·4	− 4·8	9 11	46·70 45·82
753	+86	176	6·38 F 5	12 2 10·103	+289·88	−18·20	− 4·95	+85 51 51·10	−2004·2	+ 0·6	+ 8·8	44 45	45·80 45·77
754	+ 9	2583	4·24 G 5	12 2 39·752	+307·08	− 0·14	− 1·49	+ 9 0 37·61	−2004·1	+ 0·7	+ 4·5	8 27	47·06 42·20
755	+49	2110	7·77 F 5	12 3 34·502	+304·89	− 1·61	− 1·14	+49 26 12·05	−2004·0	+ 0·8	+ 0·9	7 6	45·60 45·64
756	−11	3238	6·70 F 0	12 4 13·582	+307·85	+ 0·42	− 0·77	−11 57 44·86	+2003·9	+ 0·8	− 0·8	7	47·97
757	+39	2496	7·27 A 2	12 6 56·096	+304·06	− 1·06	− 0·34	+38 54 39·30	−2003·3	+ 1·1	− 6·8	8 9	41·22 41·89
758	+ 6	2559	5·74 F 0	12 7 30·578	+306·86	− 0·04	− 1·07	+ 6 5 5·09	−2003·2	+ 1·2	+ 1·5	8 9	40·37 40·37
759	+17	2446	6·34 A 0	12 7 58·757	+305·90	− 0·34	− 0·14	+17 5 14·31	−2003·1	+ 1·2	− 0·6	12 12	43·84 43·35
760	− 1	2632	7·12 K 0	12 8 48·080	+307·54	+ 0·18	+ 0·12	− 2 25 11·97	−2002·8	+ 1·3	− 8·2	7 6	44·60 44·48
761	+26	2316	5·81 K 0	12 9 19·092	+304·66	− 0·60	− 0·34	+26 8 55·91	−2002·6	+ 1·3	− 3·3	7	40·93
762	−25	9091	7·40 K 2	12 9 23·762	+309·96	+ 0·84	− 0·05	−25 39 47·83	−2002·6	+ 1·2	− 3·6	4 5	48·06 47·93
763	+11	2440	5·81 A 2	12 10 53·218	+306·15	− 0·15	− 0·65	+10 32 25·61	−2002·0	+ 1·5	− 2·1	7	40·94
764	−16	3424	2·78 B 8	12 13 13·895	+309·72	+ 0·60	− 1·11	−17 15 51·99	−2000·9	+ 1·7	+ 1·6	10 8	45·16 40·00
765	+73	549	6·55 K 0	12 13 21·397	+282·14	− 3·90	− 0·33	+72 49 45·59	−2000·8	+ 1·6	− 3·9	13 14	46·01 46·10
766	+24	2443	5·06 K 0	12 13 48·834	+303·72	− 0·52	− 0·21	+24 13 23·25	−2000·6	+ 1·8	− 1·4	5 7	40·56 41·23
767	−15	3442	5·96 A 2	12 14 24·373	+309·81	+ 0·58	− 0·35	−16 24 57·77	−2000·3	+ 1·8	− 0·3	5	46·35
768	+88	71	6·28 F 0	12 14 45·548	+ 64·07	+24·74	− 5·96	+87 58 37·01	−2000·1	+ 0·8	+ 5·2	41 31	37·53 37·84
769	+31	2350	6·14 *	12 16 0·479	+301·82	− 0·71	+ 0·70	+30 31 42·24	−1999·4	+ 2·0	−13·0	7	44·03
770	+ 0	2920	5·92 A 3	12 16 6·392	+307·41	+ 0·15	+ 0·18	− 0 30 33·57	−1999·3	+ 2·0	− 2·1	6 6	46·34 46·18
771	+ 0	2926	4·00 A 0	12 17 20·740	+307·39	+ 0·15	− 0·42	− 0 23 20·87	−1998·5	+ 2·1	− 2·2	11 25	48·69 45·75
772	+58	1371	5·72 K 2	12 18 25·969	+290·05	− 1·98	+ 0·52	+58 8 33·11	−1997·8	+ 2·2	− 7·8	6 6	45·67 45·32
773	+52	1626	4·97 K 0	12 21 36·045	+291·32	− 1·54	+ 0·12	+51 50 20·54	−1995·4	+ 2·4	+ 0·7	9 11	40·04 40·19
774	−27	8670	6·34 K 0	12 22 40·993	+314·19	+ 0·96	+ 0·03	−27 28 18·89	−1994·5	+ 2·7	− 2·0	6 6	43·82 43·79
775	+64	896	6·37 G 5	12 22 47·014	+280·05	− 2·34	− 0·29	+64 4 46·12	−1994·4	+ 2·4	− 0·2	14 18	42·18 42·62
776	+18	2611	7·52 K 0	12 25 1·947	+302·56	− 0·30	− 0·10	+18 6 40·24	−1992·3	+ 2·8	− 3·7	8	39·63
777	+42	2307	6·85 *	12 25 6·202	+294·34	− 1·04	− 0·23	+41 37 53·96	−1992·3	+ 2·8	− 1·3	8	40·47
778	+26	2354	5·38 A0p	12 26 25·005	+299·77	− 0·52	− 0·19	+26 11 21·60	−1991·0	+ 3·0	− 2·5	5 8	38·19 37·90
779	−15	3482	3·11 A 0	12 27 16·434	+311·95	+ 0·61	− 1·46	−16 14 13·27	−1990·1	+ 3·1	−14·3	11 34	46·72 42·64
780	−22	3383	5·87 K 5	12 27 40·125	+314·29	+ 0·84	− 0·16	−23 25 12·64	−1989·7	+ 3·2	− 1·1	5 6	44·16 44·67
781	− 3	3309	7·06 K 0	12 28 16·203	+308·42	+ 0·27	− 0·48	− 3 47 5·65	−1989·1	+ 3·2	− 0·1	6	45·48
782	+ 8	2609	6·16 K 5	12 28 48·920	+305·01	− 0·02	− 0·20	+ 7 52 48·38	−1988·4	+ 3·2	+ 0·3	6 7	41·53 42·80
783	+11	2473	6·46 K 0	12 30 31·021	+304·01	− 0·09	− 0·38	+10 34 16·51	−1986·5	+ 3·4	− 0·3	7 6	40·94 40·21
784	−12	3659	5·76 G 5	12 30 58·467	+311·34	+ 0·52	− 0·17	−12 33 19·56	−1986·0	+ 3·5	+ 5·0	5	44·57
785	+38	2347	6·72 K 0	12 31 3·807	+293·04	− 0·88	− 0·32	+38 20 41·34	−1985·9	+ 3·3	− 1·7	5	43·95
786	−22	3401	2·84 G 5	12 31 45·345	+315·20	+ 0·84	+ 0·04	−23 7 13·70	−1985·1	+ 3·6	− 5·7	4	43·60
787	+19	2584	5·18 K 0	12 32 37·299	+300·93	− 0·29	− 0·04	+18 39 7·03	−1984·0	+ 3·6	+ 2·0	5 39	48·55 41·00
788	+46	1797	7·50 K 5	12 33 29·780	+287·14	− 1·14	− 0·12	+46 3 21·24	−1982·9	+ 3·4	+ 0·9	6 7	46·84 46·89
789	− 5	3535	5·90 A 0	12 34 12·673	+309·26	+ 0·34	− 0·22	− 5 33 23·63	−1982·0	+ 3·8	− 2·0	7	42·08
790	+ 2	2560	6·02 M a	12 35 49·361	+306·56	+ 0·14	− 0·52	+ 2 7 46·03	−1979·8	+ 3·9	− 2·6	7	40·09
791	−17	3668	6·08 F 0	12 36 7·772	+314·13	+ 0·69	− 0·82	−17 58 32·74	−1979·5	+ 4·0	+ 1·1	2	41·84
792	+21	2439	5·51 K 0	12 36 38·168	+299·02	− 0·34	− 0·60	+21 20 13·89	−1978·7	+ 3·9	− 1·7	6 8	37·89 38·02
793	− 7	3452	4·78 K 0	12 36 39·749	+310·21	+ 0·40	− 0·52	− 7 43 14·42	−1978·7	+ 4·0	− 3·3	8 30	49·10 43·47
794	+34	2344	6·62 K 0	12 39 53·004	+291·75	− 0·68	− 1·79	+33 57 50·85	−1974·0	+ 4·0	−11·6	10	40·18
795	− 2	3567	6·65 A 2	12 41 37·117	+308·41	+ 0·28	− 0·49	− 2 34 7·65	−1971·3	+ 4·4	− 1·2	7 8	38·39 38·14
796	+81	402	6·26 A 0	12 43 9·469	+151·24	+ 0·40	+ 1·14	+80 53 41·27	−1968·8	+ 2·5	− 4·6	16	42·76
797	−24	10540	6·29 B 9	12 45 13·883	+319·32	+ 0·94	− 0·31	−24 34 45·70	−1965·4	+ 5·0	+ 3·4	10	41·48
798	−26	9340	5·80 G 5	12 45 46·038	+321·03	+ 1·04	− 1·07	−27 19 25·72	−1964·5	+ 5·0	− 7·1	9 10	46·21 46·31
799	+28	2153	5·83 A 0	12 46 51·365	+293·01	− 0·47	− 0·73	+27 49 26·90	−1962·5	+ 4·8	+ 1·5	8 6	43·39 43·23
800	+84	289	5·28 A 2	12 48 46·221	+ 52·35	+ 8·98	− 1·76	+83 41 4·23	−1959·0	+ 1·2	+ 1·6	65 55	37·44 37·78

Position 1950 + T = Position 1950 + T (1st Term) + T^2 (2nd Term) + T′ (P.M.). T in centuries from 1950·0, T′ in centuries from epoch.

*769 F5 + A2 *777 F8 + A3

No.	BD or CD No.		M + Sp.		R.A. 1950			Precession 1st Term	Precession 2nd Term	P.M.	Dec. 1950			Precession 1st Term	Precession 2nd Term	P.M.	No. Obs.		Epoch 1900+	
	°				h	m	s	s	s	s	°	′	″	″	″	″				
801	+17	2551	6·53	K 5	12	49	43·041	+298·35	− 0·20	− 0·6	+17	20	43·13	−1957·3	+ 5·1	− 1·7	9		44·83	
802	+13	2602	6·34	A 3	12	51	19·155	+300·64	− 0·08	+ 0·34	+12	41	23·84	−1954·3	+ 5·3	− 3·2	6		46·83	
803	+36	2314	8·14	K 0	12	51	21·644	+285·75	− 0·67	+ 0·03	+36	0	31·67	−1954·1	+ 5·0	− 7·4	4		48·34	
804	−17	3726	6·84	A 0	12	51	21·750	+316·84	+ 0·72	− 0·26	−17	46	0·08	−1954·1	+ 5·6	− 0·2	3		47·95	
805	+56	1627	1·68	A0p	12	51	50·017	+262·52	− 1·30	+ 1·34	+56	13	51·41	−1953·3	+ 4·8	− 0·9	7	9	46·55	46·85
806	+ 0	3002	6·88	K 0	12	53	4·861	+307·15	+ 0·23	− 0·14	+ 0	19	33·94	−1950·7	+ 5·6	− 0·8	3		40·74	
807	+ 4	2669	3·66	M a	12	53	5·067	+305·36	+ 0·15	− 3·14	+ 3	40	7·74	−1950·7	+ 5·5	− 5·8	5	35	46·90	42·80
808	−14	3605	6·10	A 0	12	53	15·285	+135·61	+ 0·65	− 0·07	−15	3	23·98	−1950·4	+ 5·7	− 0·7	2		42·36	
809	+39	2580	2·90	A0p	12	53	41·658	+282·57	− 0·72	− 2·01	+38	35	16·18	−1949·5	+ 5·2	+ 5·0	5	5	40·80	40·21
810	+54	1556	6·01	A 2	12	54	6·446	+263·72	− 1·20	− 0·88	+54	22	10·73	−1948·7	+ 4·9	− 0·7	5		42·79	
811	+44	2234	6·95	A 0	12	54	20·323	+277·21	− 0·88	+ 0·03	+43	49	20·12	−1948·2	+ 5·2	− 0·3	6		40·54	
812	− 6	3705	7·70	K 0	12	56	0·266	+311·12	+ 0·42	− 0·18	− 6	40	43·64	−1944·7	+ 5·9	+ 0·7	5		39·96	
813	− 3	3384	5·88	A 0	12	57	4·821	+309·37	+ 0·34	− 0·26	− 3	32	33·87	−1942·4	+ 6·0	+ 0·5	9		40·39	
814	+76	473	6·19	K 0	12	57	18·674	+177·21	− 0·60	+ 0·15	+75	44	30·61	−1941·9	+ 3·6	+ 0·6	12		48·24	
815	+32	2311	6·72	G 5	12	58	2·478	+286·37	− 0·52	+ 0·09	+32	2	54·67	−1940·3	+ 5·6	− 1·7	6		45·98	
816	+57	1408	4·89	F 0	12	58	35·295	+256·02	− 1·20	+ 1·38	+56	38	7·86	−1939·1	+ 5·2	− 1·6	4		47·63	
817	+11	2529	2·95	K 0	12	59	41·239	+300·49	− 0·02	− 1·86	+11	13	38·29	−1936·7	+ 6·1	+ 1·9	6	11	47·47	45·42
818	+23	2530	6·87	A 0	13	0	33·308	+292·58	− 0·29	− 0·28	+22	54	22·24	−1934·7	− 6·0	− 2·7	5	6	45·94	46·15
819	−13	3651	7·23	K 5	13	3	13·392	+316·30	+ 0·64	− 0·10	−13	50	38·51	−1928·4	+ 6·7	− 1·8	6		45·50	
820	+46	1847	5·72	K 0	13	3	37·435	+270·01	− 0·84	− 0·18	+45	32	7·61	−1927·6	+ 5·8	+ 2·5	8	10	47·95	47·43
821	+28	2185	4·90	K 5	13	4	46·772	+287·60	− 0·39	+ 0·23	+27	53	33·83	−1924·7	+ 6·2	− 7·8	4	6	44·60	45·83
822	+ 6	2697	6·91	G 0	13	6	18·773	+303·66	+ 0·14	+ 0·56	+ 5	29	2·48	−1921·0	+ 6·8	−68·8	7	6	42·09	42·71
823	−22	3515	5·11	K 0	13	6	21·321	+323·40	+ 0·94	− 0·17	−22	51	3·69	−1920·8	+ 7·2	− 4·6	4		48·37	
824	+17	2595	6·18	K 0	13	7	20·408	+295·41	− 0·13	+ 0·47	+17	6	53·26	−1918·4	+ 6·6	− 1·9	5	6	38·40	38·74
825	− 4	3430	4·46	A 0	13	7	21·475	+310·90	+ 0·41	− 0·23	− 5	16	21·19	−1918·3	+ 7·0	− 3·5	9	51	48·22	41·47
826	+63	1056	6·49	A 0	13	7	54·368	+232·40	− 1·12	− 0·42	+62	7	42·38	−1916·9	+ 5·4	− 1·4	6	9	46·69	47·05
827	−25	9653	6·48	A 3	13	8	55·714	+326·88	+ 1·06	− 0·41	−26	17	9·78	−1914·2	+ 7·4	− 0·6	6	7	46·05	46·21
828	+28	2193	4·32	G 0	13	9	33·058	+285·98	− 0·36	− 6·04	+28	7	42·67	−1912·7	+ 6·6	+87·6	10	11	39·68	39·75
829	+81	416	6·32	G 5	13	11	56·840	+ 54·25	+ 5·97	− 0·36	+80	44	8·57	−1906·3	+ 1·6	+ 0·8	13		43·26	
830	+73	587	6·43	A 0	13	12	5·946	+171·55	− 0·23	+ 0·49	+73	3	48·99	−1905·9	+ 4·3	− 3·1	17	15	43·17	43·14
831	+20	2814	6·29	A 3	13	14	6·793	+291·84	− 0·17	− 0·84	+20	2	53·74	−1900·4	+ 7·1	+ 1·7	6		38·06	
832	+10	2531	5·22	G 0	13	14	17·772	+300·07	+ 0·06	− 2·27	+ 9	41	3·26	−1899·9	+ 7·4	+18·5	6	8	39·07	39·66
833	+16	2722	5·01	M a	13	15	4·685	+303·01	+ 0·16	− 0·05	+ 5	43	57·59	−1897·7	+ 7·5	+ 1·3	17	39	49·00	45·39
834	− 7	3582	7·06	F 8	13	15	6·990	+313·73	+ 0·51	+ 0·10	− 8	28	10·06	−1897·6	+ 7·8	− 5·7	6		45·52	
835	+ 4	2721	6·56	A 0	13	16	19·078	+304·31	+ 0·20	− 0·34	+ 3	57	1·18	−1894·1	+ 7·6	− 1·7	6	7	38·24	37·84
836	+35	2435	5·96	A 5	13	16	46·382	+276·12	− 0·50	− 0·24	+35	23	24·55	−1892·8	+ 7·0	+ 0·5	7		38·40	
837	+40	2647	5·69	K 0	13	18	4·622	+269·31	− 0·59	− 0·53	+40	24	44·68	−1889·1	+ 7·0	− 1·0	16	16	41·89	42·01
838	−20	3818	6·60	K 0	13	21	14·511	+324·82	+ 0·89	− 0·22	−20	39	49·62	−1879·7	+ 8·6	− 1·5	8		43·36	
839	+55	1598	2·40	A2p	13	21	54·774	+240·10	− 0·81	+ 1·40	+55	11	9·61	−1877·6	+ 6·5	− 2·5	9	10	42·40	42·10
840	−10	3672	1·21	B 2	13	22	33·303	+316·40	+ 0·59	− 0·26	−10	54	3·37	−1875·7	+ 8·5	− 3·3	14	51	45·80	42·56
841	+16	2508	7·00	K 0	13	23	13·320	+293·87	− 0·05	− 0·50	+15	49	25·57	−1873·5	+ 8·0	− 1·7	6		38·41	
842	− 0	2686	6·01	A 3	13	23	37·687	+308·11	+ 0·33	− 0·75	− 0	55	59·21	−1872·3	+ 8·4	− 0·1	5	7	40·61	40·28
843	−11	3516	5·59	K 2	13	24	4·536	+317·90	+ 0·64	− 0·93	−12	26	52·65	−1870·9	+ 8·6	− 2·4	5	7	39·81	39·28
844	+53	1622	6·16	F 0	13	25	59·282	+242·34	− 0·74	− 1·27	+53	0	15·82	−1864·8	+ 6·9	− 1·6	8	9	39·52	39·62
845	+31	2493	7·12	K 2	13	26	0·038	+277·43	− 0·36	+ 0·02	+31	24	27·63	−1864·8	+ 7·8	− 0·2	12	13	43·39	42·93
846	+ 7	2655	6·29	K 5	13	27	29·558	+300·83	+ 0·14	+ 0·05	+ 7	26	10·88	−1859·9	+ 8·6	− 0·4	10		39·10	
847	+27	2262	7·15	A 5	13	28	39·732	+282·03	− 0·26	+ 0·18	+26	38	50·42	−1856·2	+ 8·2	− 0·6	8	9	40·65	40·52
848	− 9	3711	5·43	G 5	13	30	19·845	+316·29	+ 0·58	− 0·23	− 9	54	28·71	−1850·6	+ 9·2	− 4·3	8	10	41·17	40·52
849	+ 0	3076	3·44	A 2	13	32	8·656	+307·64	+ 0·34	− 1·90	− 0	20	27·93	−1844·4	+ 9·2	+ 3·5	12	58	45·47	41·76
850	+49	2227	4·63	A 3	13	32	24·836	+246·43	− 0·62	− 1·28	+49	16	15·66	−1843·5	+ 7·4	+ 1·9	5	5	44·80	43·21

Position 1950 + T = Position 1950 + T (1st Term) + T^2 (2nd Term) + T′ (P.M.). T in centuries from 1950·0, T′ in centuries from epoch.

No.	BD or CD No.		M + Sp.	R.A. 1950			Precession		P.M.	Dec. 1950			Precession		P.M.	No. Obs.		Epoch 1900+	
							1st Term	2nd Term					1st Term	2nd Term					
	°			h	m	s	s	s	s	°	′	″	″	″	″				
851	+44	2285	6·63 A 5	13	33	6·463	+255·52	− 0·55	− 0·21	+44	27	6·80	−1841·1	+ 7·8	+ 1·2	10	12	46·88	46·88
852	+ 3	2799	6·73 K 0	13	35	11·506	+304·84	+ 0·27	− 0·10	+ 2	38	11·17	−1833·9	+ 9·4	− 3·6	7		40·26	
853	+23	2591	7·05 G 5	13	35	39·188	+284·58	− 0·16	− 1·01	+22	46	57·33	−1832·2	+ 8·8	− 9·6	7	8	40·56	40·54
854	+11	2589	5·54 F 2	13	37	6·667	+296·65	+ 0·10	− 7·8	+10	59	58·43	−1827·0	+ 9·2	− 2·0	9	9	42·07	41·30
855	−15	3715	6·86 K 2	13	37	16·623	+323·31	+ 0·77	− 0·04	−16	11	36·27	−1826·4	+10·1	− 2·4	6	7	43·73	43·98
856	−22	3645	6·42 A 0	13	38	44·958	+331·24	+ 1·00	− 0·07	−23	11	50·72	−1821·1	+10·4	+ 0·2	10	12	47·77	48·21
857	+55	1625	4·75 M a	13	38	50·626	+227·75	− 0·57	− 0·26	+54	56	2·94	−1820·7	+ 7·3	− 1·4	9	9	41·75	42·32
858	+65	953	5·70 A 0	13	39	56·417	+185·88	− 0·24	+ 0·83	+65	4	27·81	−1816·7	+ 6·0	− 1·9	14		43·78	
859	+35	2474	5·98 K 0	13	40	29·754	+267·25	− 0·36	+ 0·15	+35	14	24·69	−1814·7	+ 8·6	+ 0·4	7		40·84	
860	− 4	3540	6·47 A 0	13	41	17·958	+312·58	+ 0·47	− 0·36	− 5	14	51·92	−1811·6	+10·1	− 2·5	5	7	37·42	38·70
861	−11	3591	5·82 K 0	13	43	16·189	+319·89	+ 0·66	− 0·14	−12	10	36·18	−1804·2	+10·6	0·0	5	7	41·60	42·23
862	+83	397	6·16 G 5	13	43	40·627	−168·61	+23·40	+ 2·05	+83	0	13·25	−1802·6	− 5·0	− 4·8	43	53	46·42	46·19
863	+26	2494	5·91 F 5	13	44	23·992	+278·71	− 0·17	− 0·16	+25	57	8·84	−1799·9	+ 9·3	− 6·5	6	6	45·55	43·88
864	+18	2782	4·51 F 5	13	44	53·568	+288·48	− 0·02	− 3·38	+17	42	18·14	−1798·0	+ 9·6	+ 3·4	1	26	36·45	38·56
865	+50	2027	1·91 B 3	13	45	34·379	+237·63	− 0·48	− 1·26	+49	33	44·26	−1795·4	+ 8·1	− 1·4	3		40·46	
866	+ 9	2814	6·54 A 0	13	47	15·078	+298·15	+ 0·16	− 0·10	+ 8	39	22·43	−1788·8	+10·2	0·0	6	7	41·71	41·53
867	+19	2719	6·72 F 0	13	47	43·018	+286·63	− 0·03	− 0·36	+18	52	36·71	−1786·9	+ 9·8	− 3·3	5	6	38·40	39·58
868	+62	1318	6·05 K 0	13	48	7·778	+194·36	− 0·28	+ 0·95	+61	44	18·11	−1785·3	+ 6·8	−10·4	8	11	41·21	41·80
869	+40	2701	7·82 M b	13	49	39·135	+255·86	− 0·36	− 0·04	+39	54	58·15	−1779·2	+ 9·0	− 2·5	8		41·03	
870	+19	2725	2·80 G 0	13	52	18·203	+286·10	− 0·01	− 0·44	+18	38	54·64	−1768·4	+10·2	−36·3	6	52	47·05	40·71
871	− 8	3667	6·92 K 5	13	53	8·960	+317·71	+ 0·59	− 0·19	− 9	18	55·44	−1765·0	+11·4	− 0·8	4		46·18	
872	+14	2680	6·15 F 5	13	53	25·470	+291·15	+ 0·07	− 2·01	+14	18	1·98	−1763·8	+10·4	− 0·5	6	5	42·25	41·22
873	+32	2411	6·29 F 2	13	53	37·437	+267·07	− 0·24	− 1·06	+32	16	32·66	−1761·6	− 9·7	+ 4·5	8	10	39·41	40·61
874	+22	2650	5·42 A 0	13	56	18·307	+281·17	− 0·06	− 0·08	+21	56	21·62	−1751·6	+10·3	− 5·2	10	9	38·51	38·86
875	− 2	3768	6·30 F 5	13	57	13·657	+311·11	+ 0·45	− 0·20	− 3	18	24·83	−1747·8	+11·4	− 6·8	10	13	41·52	43·19
876	+ 2	2761	4·34 A 2	13	59	5·928	+305·26	+ 0·34	+ 0·11	+ 1	47	8·46	−1739·7	+11·4	− 2·4	10	67	48·27	41·90
877	−16	3785	6·53 K 0	14	0	20·525	+327·97	+ 0·82	− 1·29	−17	7	36·14	−1734·3	+12·4	+ 0·1	4	6	43·13	44·68
878	−21	3824	6·21 F 2	14	1	5·415	+334·79	+ 0·99	− 0·04	−22	10	55·88	−1731·0	+12·6	− 1·3	5		45·59	
879	+51	1889	6·05 A 0	14	1	8·152	+223·49	− 0·33	− 0·22	+51	12	42·21	−1730·8	+ 8·6	− 0·9	6	5	44·24	43·61
880	+ 5	2836	6·28 F 2	14	1	25·054	+301·26	+ 0·26	− 0·12	+ 5	8	25·06	−1729·5	+11·4	− 0·7	8	9	40·04	39·53
881	−13	3863	6·36 K 0	14	1	44·275	+325·12	+ 0·75	− 0·26	−14	43	56·40	−1728·1	+12·4	− 2·4	7	8	47·00	47·42
882	+65	978	3·64 A0p	14	3	2·032	+163·32	+ 0·24	− 0·89	+64	36	51·59	−1722·4	+ 6·5	+ 1·3	11	13	42·74	43·88
883	−26	10095	3·48 K 0	14	3	31·021	+341·43	+ 1·15	+ 0·34	−26	26	31·48	−1720·2	+13·2	−14·4	8	8	43·90	44·28
884	+18	2824	7·62 K 0	14	4	11·115	+284·74	+ 0·03	− 0·24	+18	8	59·07	−1717·1	+11·1	− 0·7	7		40·56	
885	+39	2720	7·90 K 0	14	4	20·706	+252·14	− 0·26	+ 0·09	+38	39	18·52	−1716·4	+ 9·8	− 0·7	11	10	41·69	40·83
886	+50	2047	5·44 M a	14	6	25·286	+224·78	− 0·29	− 0·66	+49	41	36·77	−1707·0	+ 8·9	+ 5·5	9	11	38·86	39·06
887	−26	10158	5·25 K 0	14	9	53·766	+343·92	+ 1·18	− 0·10	−27	1	35·84	−1690·8	+13·8	− 4·2	4		40·17	
888	− 9	3878	4·31 K 0	14	10	13·458	+320·06	+ 0·62	+ 0·05	−10	2	32·20	−1689·3	+12·9	+13·5	7	43	48·77	42·23
889	+70	778	5·36 M a	14	11	7·808	+112·09	+ 1·35	− 0·48	+69	40	0·57	−1685·0	+ 4·8	− 5·0	11		45·58	
890	+ 4	2841	6·62 M a	14	12	21·640	+302·77	+ 0·32	− 0·32	+ 3	34	7·52	−1679·1	+12·4	− 2·0	6	7	43·57	44·09
891	+22	2678	6·40 A 2	14	12	21·855	+277·69	− 0·02	+ 0·28	+22	6	21·54	−1679·2	+11·4	− 1·0	6		39·92	
892	+19	2777	0·24 K 0	14	13	22·872	+281·40	+ 0·02	− 7·75	+19	26	47·45	−1674·3	+11·6	−199·8	1	39	48·45	41·62
893	− 5	3843	4·16 F 5	14	13	23·368	+314·74	+ 0·52	− 0·07	− 5	45	42·35	−1674·3	+13·0	−42·8	6	5	41·26	39·82
894	+57	1498	6·60 F 8	14	14	22·925	+193·82	− 0·08	+ 0·07	+56	55	19·41	−1669·5	+ 8·2	−10·5	4		39·70	
895	+46	1949	4·26 A 0	14	14	29·081	+229·86	− 0·23	− 1·82	+46	19	1·00	−1669·0	+ 9·6	+15·8	8	8	42·66	43·78
896	− 6	3964	6·50 G 0	14	15	21·061	+316·87	+ 0·56	+ 1·68	− 7	18	30·14	−1664·7	+13·2	−24·7	5		45·00	
897	−18	3789	5·74 A0p	14	15	52·047	+332·29	+ 0·87	− 0·46	−18	29	7·52	−1662·3	+13·8	− 4·2	7	6	46·54	47·73
898	−12	4018	4·60 A 2	14	16	23·970	+324·81	+ 0·71	− 0·12	−13	8	31·17	−1659·7	+13·6	+ 2·4	6	38	46·73	42·12
899	+13	2782	5·31 F 0	14	16	50·936	+289·66	+ 0·14	+ 0·71	+13	14	2·70	−1657·5	+12·2	− 3·4	7		40·86	
900	+42	2481	7·20 K 0	14	16	57·386	+239·07	− 0·21	+ 0·32	+42	14	7·96	−1656·9	+10·2	− 7·4	6	8	42·09	41·90

Position 1950 + T = Position 1950 + T (1st Term) + T^2 (2nd Term) + T′ (P.M.). T in centuries from 1950·0, T′ in centuries from epoch.

No.	BD or CD No.	M + Sp.	R.A. 1950	Precession 1st Term	Precession 2nd Term	P.M.	Dec. 1950	Precession 1st Term	Precession 2nd Term	P.M.	No. Obs.	Epoch 1900+
	°		h m s	s	s	s	° ′ ″	″	″	″		
901	+31 2605	6·34 A 2	14 17 57·425	+262·48	− 0·11	− 0·12	+30 39 27·78	−1651·9	+11·2	− 0·7	9	38·99
902	+ 8 2857	5·74 A 0	14 21 32·869	+295·80	+ 0·24	+ 0·01	+ 8 28 12·51	−1634·0	+12·8	− 3·1	12 13	41·52 41·05
903	−24 11469	5·39 K 0	14 21 57·092	+342·81	+ 1·08	− 0·40	−24 34 49·40	−1631·9	+14·8	− 2·7	8 9	40·95 42·00
904	−12 4042	6·59 K 0	14 22 34·856	+325·49	+ 0·71	− 0·37	−13 7 40·88	−1628·8	+14·2	+ 0·4	7 8	40·44 40·45
905	+52 1804	4·06 F 8	14 23 29·787	+206·81	− 0·12	− 2·60	+52 4 54·71	−1624·1	+ 9·2	−40·1	12 14	43·49 43·63
906	− 1 2957	4·99 K 0	14 25 37·383	+310·11	+ 0·44	− 0·92	− 2 0 17·54	−1613·1	+13·8	− 0·4	13 58	46·95 42·44
907	+36 2495	6·19 K 0	14 26 12·162	+248·62	− 0·13	− 0·24	+36 25 11·58	−1610·1	+11·1	− 1·0	6 7	39·23 40·37
908	+28 2332	6·95 A 0	14 26 21·130	+264·06	− 0·06	+ 0·11	+28 30 47·98	−1609·3	+11·8	+ 0·2	6	40·44
909	+31 2628	3·78 K 0	14 29 40·512	+259·33	− 0·07	− 0·80	+30 35 22·84	−1591·8	+11·8	+11·7	11 11	40·62 41·54
910	+38 2565	3·00 F 0	14 30 3·881	+242·55	− 0·13	− 0·98	+38 31 32·98	−1589·7	+11·1	+14·9	16 17	43·61 43·13
911	+81 482	7·10 G 5	14 31 5·057	−211·28	+18·28	− 3·86	+81 1 57·01	−1584·3	− 9·2	−13·0	14 15	42·56 42·61
912	+66 855	6·63 F 5	14 32 32·070	+125·32	+ 0·93	+ 0·93	+65 36 47·17	−1576·5	+ 6·0	+ 4·1	17	42·17
913	+50 2095	5·90 K 5	14 32 54·749	+210·23	− 0·08	− 0·48	+49 35 7·89	−1574·4	+ 9·8	+ 4·4	8 10	40·82 40·14
914	+23 2710	6·48 K 0	14 33 51·210	+271·25	+ 0·03	− 0·11	+23 28 0·79	−1569·3	+12·6	+ 1·5	8 9	38·55 39·32
915	−11 3770	6·24 F 8	14 34 20·274	+325·18	+ 0·68	− 5·91	−12 5 39·92	−1566·7	+15·1	+36·0	13 14	44·14 44·59
916	+ 2 2844	6·62 F 8	14 34 56·619	+303·69	+ 0·36	− 0·25	+ 2 29 40·14	−1563·4	+14·2	− 7·2	9 11	38·76 38·80
917	+54 1693	5·52 A 0	14 36 39·997	+190·15	+ 0·06	+ 0·15	+54 14 19·84	−1554·0	+ 9·1	− 2·4	9 9	39·22 38·44
918	+12 2729	5·63 G 5	14 39 19·355	+289·33	+ 0·20	− 1·08	+11 52 30·54	−1539·2	+13·8	−11·8	10 13	41·32 43·04
919	−18 3882	7·00 K 0	14 39 56·463	+337·06	+ 0·88	− 0·35	−19 5 58·30	−1535·7	+16·1	+ 2·6	6 5	45·10 44·64
920	− 5 3936	3·95 F 5	14 40 25·261	+315·53	+ 0·53	+ 0·71	− 5 26 28·52	−1533·0	+15·1	−32·2	16 53	46·30 42·24
921	− 7 3897	6·60 F 5	14 41 34·455	+319·56	+ 0·58	− 1·38	− 8 2 31·49	−1526·5	+15·4	+ 6·4	6	44·08
922	+27 2417	2·70 K 0	14 42 48·168	+262·38	+ 0·01	− 0·38	+27 17 2·61	−1519·4	+12·8	+ 1·7	7	42·16
923	+33 2489	6·47 M a	14 43 8·100	+250·65	− 0·04	+ 0·31	+32 59 57·19	−1517·6	+12·3	− 8·2	8 10	42·80 44·32
924	−22 3844	5·91 K 0	14 43 14·213	+344·29	+ 1·00	+ 0·16	−22 56 32·49	−1517·0	+16·8	− 6·5	6	41·26
925	+ 2 2862	3·76 A 0	14 43 43·106	+304·12	+ 0·38	− 0·74	+ 2 6 9·10	−1514·3	+14·8	− 3·2	10 51	44·94 41·63
926	+15 2758	6·10 M b	14 43 44·525	+283·31	+ 0·16	− 0·58	+15 20 26·90	−1514·1	+13·9	+ 0·9	5 6	41·45 40·45
927	−25 10537	5·39 G 5	14 44 49·295	+350·02	+ 1·10	+ 0·32	−25 52 44·31	−1508·0	+17·2	− 0·1	5 5	45·64 44·44
928	− 0 2886	6·06 A 0	14 46 19·798	+308·32	+ 0·43	− 0·06	− 0 38 26·79	−1499·1	+15·2	+ 1·3	9 10	42·34 41·66
929	+29 2581	5·66 A 2	14 47 49·149	+258·18	+ 0·01	+ 0·16	+28 49 18·46	−1490·5	+12·9	− 0·5	8 10	38·69 38·85
930	−15 3966	2·90 A 3	14 48 6·484	+332·69	+ 0·78	− 0·73	−15 50 5·97	−1488·8	+16·6	− 7·1	9 18	45·57 42·46
931	+37 2580	5·50 K 0	14 48 31·344	+238·61	− 0·04	− 1·79	+37 28 33·54	−1486·4	+12·0	+ 8·7	8 9	38·07 37·78
932	−30 11780	6·43 G 0	14 49 34·095	+360·12	+ 1·28	− 2·56	−30 22 19·93	−1480·3	+18·0	− 3·4	3	44·06
933	+74 595	2·24 K 5	14 50 49·746	− 16·38	+ 4·82	− 0·84	+74 21 35·67	−1472·8	− 0·4	+ 0·9	15 18	42·72 43·37
934	+ 6 2957	6·69 K 0	14 51 11·210	+297·07	+ 0·30	− 0·19	+ 6 26 41·50	−1470·7	+15·0	+ 0·8	7 8	39·89 39·46
935	+83 431	5·73 G 0	14 53 33·138	−411·06	+31·79	+ 9·02	+82 43 7·99	−1456·5	−20·3	−23·2	49 53	45·46 45·53
936	+87 143	7·16 K 0	14 53 35·018	−1731·74	+296·52	− 1·43	+87 25 19·73	−1456·4	−86·4	+ 1·8	64 64	37·75 37·82
937	+41 2539	7·21 A 2	14 54 6·597	+226·38	− 0·02	− 0·06	+41 20 13·28	−1453·2	+11·6	+ 3·6	5 7	38·84 37·87
938	+22 2764	6·24 A 0	14 54 48·344	+270·49	+ 0·10	− 0·10	+21 45 21·57	−1449·0	+13·9	− 2·5	6	41·44
939	+ 0 3277	5·71 K 0	14 54 59·206	+307·27	+ 0·42	+ 0·42	+ 0 1 57·95	−1447·9	+15·8	− 2·7	6 7	43·30 42·61
940	+14 2812	6·77 K 2	14 55 54·285	+283·78	+ 0·19	− 0·25	+14 14 13·00	−1442·3	+14·6	+ 0·1	5 4	48·03 48·18
941	− 7 3938	* A 0	14 58 17·821	+321·04	+ 0·58	− 0·44	− 8 19 18·29	−1427·8	+16·7	− 0·8	9 18	49·32 47·24
942	− 7 3943	6·85 G 5	14 59 23·772	+320·82	+ 0·58	− 0·24	− 8 8 56·07	−1420·9	+16·8	+ 2·4	6 5	44·14 42·28
943	+40 2840	3·63 G 5	15 0 3·684	+226·37	+ 0·01	− 0·40	+40 35 12·98	−1416·9	+12·0	− 3·3	10 14	45·74 46·02
944	+72 664	6·66 G 0	15 0 22·310	+ 16·75	+ 3·36	− 8·63	+71 57 38·30	−141·50	+ 1·2	+ 8·9	12 13	45·26 45·28
945	−21 4030	6·11 K 0	15 3 33·678	+345·77	+ 0·92	+ 0·45	−21 50 19·15	−1395·0	+18·4	− 6·6	7	43·30
946	+48 2262	5·59 A 0	15 3 46·384	+199·38	+ 0·10	− 0·68	+48 20 36·17	−1393·7	+10·8	+ 2·9	19 22	45·40 46·08
947	−12 4198	7·32 A 0	15 3 49·363	+328·99	+ 0·68	+ 0·09	−12 42 51·92	−1393·4	+17·6	− 2·8	6 7	43·30 42·76
948	+19 2924	6·00 A 0	15 5 2·670	+274·78	+ 0·16	+ 0·29	+18 38 3·01	−1385·7	+14·8	− 6·3	8 10	39·34 38·86
949	+ 6 3001	6·22 G 5	15 5 11·319	+297·70	+ 0·32	− 0·06	+ 5 41 22·83	−1384·7	+16·0	− 2·5	8 10	38·96 39·27
950	+26 2656	5·73 K0p	15 6 14·162	+258·97	+ 0·08	+ 0·02	+26 29 30·42	−1378·2	+14·0	− 2·1	8 9	39·97 38·36

Position 1950 + T = Position 1950 + T (1st Term) + T^2 (2nd Term) + T′ (P.M.). T in centuries from 1950·0, T′ in centuries from epoch.

*941 4^m8 to 5^m9

No.	BD or CD No.		M + Sp.		R.A. 1950			Precession 1st Term	Precession 2nd Term	P.M.	Dec. 1950			Precession 1st Term	Precession 2nd Term	P.M.	No. Obs.		Epoch 1900+	
	°				h	m	s	s	s	s	°	′	″	″	″	″				
951	+34	2604	6·89	K 0	15	6	17·436	+242·13	+ 0·04	− 0·25	+33	53	48·04	−1377·8	+13·1	0·0	7		37·90	
952	+50	2146	6·27	K 0	15	6	44·212	+190·45	+ 0·15	− 0·06	+50	14	43·68	−1375·0	+10·4	− 2·8	7		41·04	
953	+63	1167	6·75	F 2	15	6	52·850	+113·85	+ 0·98	+ 0·02	+63	18	27·28	−1374·0	+ 6·4	− 0·2	7	10	42·92	43·54
954	− 4	3818	7·15	K 0	15	6	57·031	+316·19	+ 0·52	− 1·13	− 5	12	15·56	−1373·6	+17·0	− 6·6	6	7	39·79	40·61
955	−25	10758	5·94	K 0	15	7	20·792	+355·16	+ 1·06	− 0·24	−26	8	36·05	−1371·0	+19·2	− 1·9	6		43·62	
956	+43	2475	6·55	A 5	15	12	12·536	+213·89	+ 0·07	− 0·66	+43	13	56·61	−1339·8	+11·9	+ 4·6	10		39·87	
957	− 8	3925	2·74	B 8	15	14	18·760	+323·55	+ 0·59	− 0·66	− 9	11	59·07	−1326·0	+18·0	− 2·3	17	65	46·33	41·99
958	+37	2625	7·08	F 8	15	14	27·047	+231·09	+ 0·06	− 2·26	+37	15	8·10	−1325·1	+12·8	+ 0·4	5	6	40·02	39·26
959	+69	789	6·50	A 0	15	14	28·681	+ 44·37	+ 2·31	+ 0·41	+69	7	46·32	−1324·9	+ 2·8	− 1·3	12		46·18	
960	+21	2755	5·66	G 5	15	16	9·909	+269·09	+ 0·14	− 0·09	+20	45	16·48	−1313·8	+15·1	− 2·3	6		37·63	
961	+10	2823	6·71	F 8	15	16	17·967	+288·42	+ 0·26	− 0·63	+10	36	32·35	−1313·0	+16·2	+ 0·1	7		40·19	
962	−15	4083	6·11	F 5	15	18	13·343	+335·28	+ 0·72	+ 0·16	−15	22	10·21	−1300·2	+18·9	+ 1·8	6		39·45	
963	+ 1	3067	5·48	K 0	15	18	29·142	+305·74	+ 0·40	− 0·31	+ 0	53	46·47	−1298·4	+17·2	−11·2	6	7	38·46	38·04
964	− 6	4148	7·43	K 2	15	18	29·652	+318·81	+ 0·53	+ 0·09	− 6	26	2·04	−1298·3	+18·0	+ 0·9	5	5	40·65	38·47
965	−26	10842	6·78	K 0	15	19	57·468	+358·38	+ 1·04	+ 0·24	−26	30	39·92	−1288·6	+20·3	− 0·8	8	7	42·70	41·87
966	+72	679	3·14	A 2	15	20	47·465	− 8·83	+ 3·59	− 0·48	+72	0	42·92	−1283·0	− 0·2	+ 1·9	12	14	42·97	43·05
967	−11	3940	5·78	K 0	15	21	7·400	+329·54	+ 0·64	− 0·28	−12	11	32·43	−1280·8	+18·7	− 4·6	6		37·63	
968	− 0	2961	6·10	F 0	15	21	8·793	+308·85	+ 0·43	+ 0·50	− 0	50	43·25	−1280·6	+17·6	− 3·1	7		37·03	
969	+25	2916	6·26	K 5	15	25	29·715	+258·04	+ 0·12	− 0·04	+25	16	28·36	−1251·1	+15·0	− 2·9	11	13	40·39	39·71
970	+55	1756	6·30	A 2	15	27	39·172	+155·08	+ 0·42	− 0·13	+55	21	55·94	−1236·3	+ 9·2	+ 2·5	8	7	37·62	37·07
971	−20	4246	6·10	A 2	15	27	42·556	+346·78	+ 0·84	+ 0·10	−20	33	27·97	−1235·9	+20·2	− 2·7	8		37·97	
972	+31	2742	6·35	A 2	15	28	21·329	+242·84	+ 0·10	− 0·22	+31	27	22·58	−1231·5	+14·2	− 1·9	8		39·58	
973	+ 9	3055	6·46	F 2	15	28	29·611	+291·10	+ 0·28	+ 0·24	+ 8	44	55·76	−1230·5	+17·0	− 0·2	15		42·05	
974	+27	2512	2·31	A 0	15	32	34·047	+253·13	+ 0·12	+ 0·90	+26	52	55·72	−1202·2	+15·0	− 9·1	6	9	40·65	42·36
975	−14	4237	4·02	K 0	15	32	43·470	+335·24	+ 0·68	+ 0·43	−14	37	27·18	−1201·1	+19·8	+ 0·1	17	72	47·24	42·17
976	+81	517	6·97	K 0	15	32	50·402	−363·67	+19·42	+ 0·22	+80	56	21·11	−1200·3	−21·0	+ 1·6	13	12	45·03	44·74
977	+77	592	5·33	K 5	15	32	51·474	−176·03	+ 9·17	− 1·49	+77	30	59·92	−1200·2	−10·0	+ 0·7	10	11	45·98	45·39
978	+11	2826	6·11	G 5	15	33	30·564	+285·64	+ 0·26	− 0·29	+11	25	50·84	−1195·7	+16·9	− 1·9	7		40·90	
979	−18	4118	5·53	G 5	15	36	1·464	+344·85	+ 0·77	+ 0·59	−19	8	18·38	−1177·8	+20·6	− 8·4	6	8	38·51	38·88
980	+23	2838	7·62	K 0	15	36	13·895	+261·77	+ 0·15	− 0·47	+22	50	13·68	−1176·5	+15·6	+ 0·3	7		38·76	
981	+47	2253	5·78	F 0	15	36	39·922	+191·32	+ 0·20	+ 0·81	+46	57	42·39	−1173·4	+11·6	−12·6	16	20	44·58	44·66
982	+35	2711	6·19	K 0	15	36	52·830	+231·88	+ 0·11	0·00	+34	50	13·18	−1171·8	+14·0	− 2·4	9		40·15	
983	+37	2665	5·07	B 8	15	37	29·611	+226·09	+ 0·11	− 0·13	+36	47	49·34	−1167·5	+13·6	− 1·4	10		39·28	
984	− 5	4143	7·42	K 0	15	39	5·539	+319·35	+ 0·50	− 0·10	− 6	17	6·73	−1156·1	+19·2	− 0·2	7		39·20	
985	−14	4266	6·44	K 0	15	40	36·405	+336·47	+ 0·66	− 0·05	−14	53	2·40	−1145·3	+20·4	−10·3	8	8	42·46	42·35
986	+52	1898	5·48	A0p	15	41	29·051	+163·95	+ 0·36	− 0·70	+52	31	5·19	−1138·9	+10·1	+ 2·5	7		46·37	
987	+ 2	2989	5·80	G 5	15	41	30·770	+302·19	+ 0·36	− 0·56	+ 2	40	27·91	−1138·8	−18·4	−15·7	6		38·80	
988	+ 6	3088	2·75	K 0	15	41	48·121	+296·42	+ 0·30	+ 0·92	+ 6	34	53·40	−1136·6	+18·0	+ 4·6	16	64	45·59	41·80
989	+17	2906	5·89	A 0	15	42	25·752	+272·73	+ 0·20	− 0·20	+17	25	12·85	−1132·1	+16·6	− 0·8	5		45·28	
990	+15	2911	3·74	A 2	15	43	52·661	+276·46	+ 0·22	+ 0·48	+15	34	37·40	−1121·6	+16·9	− 4·8	5	27	49·07	44·37
991	+ 7	3023	4·42	G 0	15	44	0·976	+292·72	+ 0·30	− 1·52	+ 7	30	30·54	−1120·7	+18·0	− 7·2	5		42·70	
992	−23	12525	6·66	A 0	15	45	28·442	+356·12	+ 0·86	− 0·40	−23	40	52·22	−1110·0	+21·8	− 3·2	6		47·28	
993	+78	527	4·34	A 2	15	45	47·784	−214·31	+ 9·76	+ 0·52	+77	56	57·37	−1107·6	−12·8	− 0·4	10	12	48·13	48·52
994	− 3	3829	5·61	A 3	15	46	19·470	+314·47	+ 0·44	− 0·24	− 3	39	59·92	−1103·8	+19·4	+ 0·3	4	6	45·47	44·48
995	+28	2477	*	G0p	15	46	30·704	+247·22	+ 0·14	− 0·04	+28	18	32·28	−1102·4	+15·3	− 2·2	5		45·52	
996	− 2	4052	3·63	A 0	15	47	0·456	+313·73	+ 0·44	− 0·58	− 3	16	43·00	−1098·9	+19·4	− 2·8	7	13	47·59	46·08
997	+ 4	3069	3·75	A 2	15	48	19·278	+298·25	+ 0·32	+ 0·85	+ 4	37	36·33	−1089·3	+18·5	+ 6·3	3	10	48·21	44·22
998	+83	453	7·32	A 2	15	48	28·083	−620·06	+34·32	+ 0·43	+83	6	3·42	−1088·2	−37·6	0·0	31	25	45·60	45·57
999	+20	3166	5·76	K 5	15	52	22·343	+265·01	+ 0·18	− 0·58	+20	27	22·27	−1059·3	+16·6	+ 3·9	6	7	40·81	40·06
1000	+16	2849	3·86	F 5	15	54	8·362	+275·02	+ 0·21	+ 2·13	+15	49	35·01	−1046·2	+17·3	−128·6	24	85	46·06	41·96

Position 1950 + T = Position 1950 + T (1st Term) + T^2 (2nd Term) + T′ (P.M.). T in centuries from 1950·0, T′ in centuries from epoch.

*995 5ᵐ8 to 13ᵐ8

No.	BD or CD No.	M + Sp.	R.A. 1950	Precession 1st Term	Precession 2nd Term	P.M.	Dec. 1950	Precession 1st Term	Precession 2nd Term	P.M.	No. Obs.	Epoch 1900+
	°		h m s	s	s	s	° ′ ″	″	″	″		
1001	+14 2969	5·66 K 0	15 54 56·093	+277·67	+ 0·22	− 0·85	+14 33 22·71	−1040·3	+17·5	+ 8·0	7	41·64
1002	−25 11228	3·00 B 2	15 55 49·299	+363·09	+ 0·88	− 0·06	−25 58 17·78	−1033·6	+22·9	− 2·5	8 10	43·35 44·77
1003	− 5 4210	7·42 K 0	15 57 6·934	+319·37	+ 0·46	− 0·08	− 5 59 10·49	−1023·9	+20·2	− 1·7	6 7	40·02 39·38
1004	−22 4068	2·54 B 0	15 57 22·317	+354·89	+ 0·78	− 0·05	−22 28 50·71	−1022·0	+22·4	− 2·7	14 16	44·85 44·69
1005	+31 2805	6·68 K 0	15 58 44·048	+236·07	+ 0·14	+ 0·48	+31 42 31·10	−1011·7	+15·0	− 5·6	11 10	40·05 39·20
1006	−25 11295	5·10 K 0	16 0 19·004	+363·13	+ 0·86	− 0·53	−25 43 38·55	− 999·8	+23·2	− 4·6	7	40·21
1007	+37 2708	5·85 *	16 1 28·927	+220·54	+ 0·16	+ 0·06	+36 46 7·17	− 990·9	+14·2	− 2·5	8 9	38·12 37·84
1008	+59 1697	6·20 M a	16 2 14·506	+109·40	+ 0·77	− 0·30	+59 32 51·19	− 985·1	+ 7·1	− 2·7	8 9	38·60 39·92
1009	−19 4307	2·90 B 1	16 2 31·496	+348·95	+ 0·70	− 0·02	−19 40 12·46	− 982·9	+22·4	− 2·2	16 18	44·26 45·08
1010	−12 4425	5·64 A 0	16 4 49·582	+333·53	+ 0·55	− 0·34	−12 36 44·51	− 965·4	+21·4	− 3·6	8 9	40·11 41·26
1011	−23 12731	5·79 B 9	16 5 44·202	+358·48	+ 0·77	− 0·11	−23 33 12·36	− 958·3	+23·2	− 3·1	9	38·28
1012	+17 2964	5·34 G 5	16 5 49·003	+271·04	+ 0·20	− 0·24	+17 10 43·83	− 957·8	+17·5	− 1·2	15	43·10
1013	+45 2374	7·35 K 0	16 6 25·449	+187·67	+ 0·23	− 0·06	+45 30 41·82	− 953·1	+12·2	+ 0·2	8 9	39·61 40·72
1014	+ 6 3169	6·02 G 5	16 6 43·171	+293·88	+ 0·30	+ 1·57	+ 6 31 16·89	− 950·8	+19·0	−72·3	10 12	42·87 41·98
1015	+41 2673	6·85 F 5	16 7 36·399	+204·05	+ 0·18	− 1·89	+41 13 27·74	− 944·0	+13·2	+ 6·5	8	39·02
1016	+27 2595	6·68 K 0	16 8 0·079	+247·54	+ 0·16	− 0·18	+26 52 17·78	− 941·0	+16·1	+ 4·0	8	39·25
1017	− 1 3149	6·58 K 0	16 11 3·544	+310·12	+ 0·38	− 0·37	− 1 20 57·17	− 917·3	+20·2	− 1·6	7 6	42·33 43·13
1018	− 3 3903	3·03 M a	16 11 43·338	+314·74	+ 0·40	− 0·31	− 3 34 0·37	− 912·1	+20·6	−14·6	15 76	44·43 41·37
1019	+11 2947	7·43 F 0	16 12 29·723	+282·82	+ 0·25	+ 0·01	+11 36 56·13	− 904·7	+18·6	− 8·3	6	43·81
1020	− 7 4242	5·56 G 0	16 12 53·888	+324·60	+ 0·46	+ 1·53	− 8 14 16·14	− 902·9	+21·3	−50·8	8 7	45·14 44·66
1021	+75 586	6·51 K 2	16 13 45·952	−149·39	+ 5·48	− 1·11	+75 20 6·62	− 896·1	− 9·6	+ 3·0	10 9	46·15 46·67
1022	+23 2916	6·59 K 0	16 14 8·671	+255·95	+ 0·18	− 0·12	+23 14 44·67	− 893·1	+16·9	− 1·4	7 8	42·07 41·75
1023	+53 1856	7·04 F 0	16 14 33·851	+146·35	+ 0·43	+ 0·10	+53 21 37·97	− 889·9	+ 9·8	− 6·8	4	47·48
1024	− 4 4086	3·34 K 0	16 15 40·361	+316·92	+ 0·40	+ 0·55	− 4 34 19·92	− 881·2	+20·9	+ 3·9	7 17	48·76 46·25
1025	+32 2702	6·93 G 0	16 15 48·857	+232·55	+ 0·16	+ 1·20	+31 55 14·94	− 880·1	+15·4	+28·9	4	45·99
1026	−18 4260	6·89 A 0	16 16 40·892	+348·05	+ 0·62	− 0·07	−18 42 30·64	− 873·2	+23·0	+ 0·4	4	47·69
1027	−25 11485	3·10 B 1	16 18 8·698	+364·80	+ 0·76	− 0·07	−25 28 27·98	− 861·7	+24·2	− 2·4	7 6	45·06 45·65
1028	+46 2169	3·91 B 5	16 18 14·068	+180·49	+ 0·25	− 0·12	+46 25 53·65	− 861·0	+12·0	+ 3·7	7 8	46·80 46·03
1029	+ 1 3215	4·80 F 0	16 19 32·296	+304·91	+ 0·33	− 1·06	+ 1 8 41·91	− 850·7	+20·2	+ 5·0	6	46·82
1030	+19 3086	3·79 F 0	16 19 42·744	+265·02	+ 0·19	− 0·35	+19 16 8·90	− 849·3	+17·6	+ 4·4	7 21	45·08 41·96
1031	− 2 4179	7·00 F 2	16 22 3·210	+312·37	+ 0·36	− 0·27	− 2 22 25·77	− 830·7	+20·8	− 1·0	9	39·06
1032	+61 1591	2·89 G 5	16 23 18·457	+ 81·63	+ 0·91	− 0·32	+61 37 37·16	− 820·8	+ 5·6	+ 5·8	16 16	41·11 41·57
1033	−26 11359	1·22 *	16 26 20·204	+367·99	+ 0·73	− 0·02	−26 19 21·59	− 796·5	+24·8	− 2·3	6	43·50
1034	+29 2834	7·11 A 2	16 26 32·359	+238·82	+ 0·16	− 0·12	+29 11 5·00	− 794·9	+16·2	+ 0·5	7	42·47
1035	−14 4433	5·75 G 0	16 26 57·058	+338·94	+ 0·50	+ 0·20	−14 26 33·46	− 791·5	+22·9	+ 1·6	10	42·22
1036	−24 12695	4·87 B 3	16 27 9·921	+364·60	+ 0·70	− 0·06	−25 0 24·28	− 789·8	+24·6	− 2·9	6	45·70
1037	+ 6 3236	6·94 F 5	16 27 23·792	+294·25	+ 0·27	+ 0·03	+ 6 4 43·59	− 788·0	+19·9	+ 0·6	6	44·34
1038	+21 2934	2·81 K 0	16 28 4·147	+258·64	+ 0·18	− 0·72	+21 35 50·19	− 782·6	+17·5	− 1·6	16 76	44·26 40·75
1039	+35 2828	6·47 K 5	16 29 12·723	+219·94	+ 0·17	+ 0·05	+35 19 53·98	− 773·3	+15·0	− 3·2	7	42·36
1040	+61 1598	5·85 A 0	16 31 42·899	+ 84·61	+ 0·82	+ 0·18	+60 55 40·09	− 753·1	+ 5·9	− 1·3	16 24	44·00 44·25
1041	−27 11015	2·91 B 0	16 32 45·942	+373·61	+ 0·73	− 0·05	−28 6 50·01	− 744·6	+25·4	− 2·5	4 5	42·18 41·87
1042	+17 3053	6·27 A 0	16 33 11·704	+269·00	+ 0·20	− 0·04	+17 9 32·40	− 741·1	+18·4	− 0·7	7 6	39·40 38·39
1043	−10 4350	2·70 B 0	16 34 24·123	+330·31	+ 0·42	+ 0·08	−10 28 3·14	− 731·3	+22·6	+ 2·4	15 69	44·18 41·48
1044	+80 519	6·95 G 0	16 34 28·027	−390·76	+11·28	+ 3·21	+79 53 39·60	− 730·7	−26·3	− 8·3	9 11	46·10 45·92
1045	+46 2194	5·95 G 5	16 34 43·482	+175·17	+ 0·26	− 0·15	+46 42 49·17	− 728·6	+12·0	+ 0·4	6 7	44·50 44·80
1046	+23 2965	6·89 K 0	16 34 46·106	+254·56	+ 0·17	+ 0·73	+22 58 12·08	− 728·3	+17·4	−14·4	7	43·09
1047	− 6 4467	6·00 A 0	16 35 20·653	+321·39	+ 0·38	− 0·04	− 6 26 20·02	− 723·6	+22·0	− 1·0	9	45·51
1048	+13 3177	6·20 F 2	16 35 29·618	+276·74	+ 0·22	− 0·26	+13 47 13·50	− 722·4	+19·0	− 6·3	6	41·57
1049	+43 4624	7·15 A 2	16 35 55·832	+188·29	+ 0·22	+ 0·16	+43 39 48·42	− 718·9	+12·9	+ 3·8	5 6	40·31 40·52
1050	+56 1907	5·44 G 5	16 36 59·625	+121·30	+ 0·51	0·00	+56 6 45·10	− 710·1	+ 8·4	+ 6·5	8 10	39·15 39·63

Position 1950 + T = Position 1950 + T (1st Term) + T^2 (2nd Term) + T′ (P.M.). T in centuries from 1950·0, T′ in centuries from epoch.

*1007 F5 + A2 *1033 Ma + A3

No.	BD or CD No.	M + Sp.	R.A. 1950	Precession 1st Term	Precession 2nd Term	P.M.	Dec. 1950	Precession 1st Term	Precession 2nd Term	P.M.	No. Obs.	Epoch 1900+
	°		h m s	s	s	s	° ′ ″	″	″	″		
1051	+39 3029	3·61 K 0	16 41 10·759	+205·40	+ 0·18	+ 0·29	+39 0 59·06	− 675·8	+14·3	− 8·3	22 21	43·84 43·58
1052	−28 12358	5·96 A 2	16 41 52·325	+375·47	+ 0·68	− 0·22	−28 25 5·48	− 670·1	+25·9	− 0·6	6 7	40·28 39·74
1053	+34 2830	5·90 F 2	16 42 0·927	+221·95	+ 0·16	− 0·59	+34 7 47·02	− 668·9	+15·4	+ 4·8	11 14	42·34 42·96
1054	+ 8 3271	5·38 K 2	16 43 25·738	+288·07	+ 0·23	− 0·02	+ 8 40 20·04	− 657·2	+20·0	+ 1·0	10	38·95
1055	+ 2 3175	6·04 A 2	16 44 38·358	+302·57	+ 0·28	− 0·16	+ 2 9 11·84	− 647·2	+21·0	− 1·2	16 18	43·17 42·60
1056	− 4 4165	7·26 G 5	16 46 12·633	+317·14	+ 0·32	− 0·01	− 4 25 39·55	− 634·2	+22·0	−10·0	9 12	39·08 39·71
1057	−21 4422	7·60 M a	16 46 35·868	+357·97	+ 0·52	− 0·08	−21 45 57·41	− 631·0	+24·9	− 2·0	6 7	38·04 38·41
1058	+53 1897	7·13 K 0	16 48 14·014	+138·63	+ 0·38	− 0·28	+53 0 7·94	− 617·4	+ 9·7	− 0·3	11	39·73
1059	+30 2884	5·86 K 5	16 48 41·721	+234·21	+ 0·16	− 0·06	+29 53 26·34	− 613·6	+16·4	− 0·6	8 9	38·42 38·66
1060	+35 2878	7·70 K 5	16 50 23·145	+216·14	+ 0·17	+ 0·10	+35 34 17·83	− 599·5	+15·2	+ 1·2	6 6	41·68 43·35
1061	+18 3261	6·87 F 5	16 50 28·138	+265·54	+ 0·18	+ 0·08	+18 8 39·77	− 598·8	+18·6	− 4·0	5 7	39·52 39·83
1062	+82 498	4·40 G 5	16 51 0·837	−614·98	+16·48	+ 0·62	+82 7 21·49	− 594·1	−42·7	+ 0·4	140 137	41·30 41·21
1063	− 5 4374	5·35 K 0	16 51 55·164	+320·92	+ 0·32	− 0·26	− 6 4 25·48	− 586·6	+22·4	− 2·3	5 7	43·76 42·70
1064	+75 608	6·84 F 0	16 54 27·242	−187·36	+ 3·98	+ 0·84	+75 28 20·85	− 565·4	−13·0	− 2·0	6	46·52
1065	+14 3155	6·51 G 5	16 55 14·499	+275·43	+ 0·19	− 0·61	+13 57 33·38	− 558·9	+19·4	+ 6·5	5 7	41·49 42·23
1066	+ 9 3298	3·42 K 0	16 55 18·006	+285·97	+ 0·22	− 1·99	+ 9 27 4·85	− 558·3	+20·2	− 0·9	13 41	48·23 44·48
1067	+24 3095	6·36 K 0	16 55 37·674	+248·93	+ 0·16	+ 0·03	+24 27 26·80	− 555·6	+17·6	− 3·1	5 6	42·76 42·40
1068	+65 1157	4·82 F 5	16 55 44·562	+ 29·31	+ 1·05	+ 3·77	+65 12 39·27	− 554·5	+ 2·2	+ 4·4	8 10	42·46 43·14
1069	+31 2947	3·92 A 0	16 58 22·476	+229·93	+ 0·16	− 0·40	+30 59 55·57	− 532·4	+16·3	+ 2·8	13 15	43·38 42·27
1070	−18 4381	6·37 K 0	16 58 55·579	+351·24	+ 0·42	− 0·28	−18 48 49·06	− 527·9	+24·8	− 2·4	9 10	38·56 38·76
1071	+19 3220	6·13 A 0	17 2 30·636	+261·07	+ 0·16	+ 0·05	+19 40 0·76	− 497·5	+18·6	− 0·5	13 11	39·93 39·38
1072	−21 4512	6·29 A 0	17 3 12·478	+358·34	+ 0·42	− 0·14	−21 29 48·37	− 491·6	+25·4	− 8·2	11	38·47
1073	+49 2583	6·32 K 0	17 3 30·002	+158·93	+ 0·26	+ 0·30	+48 52 20·44	− 489·1	+11·4	− 7·7	12 11	40·40 40·02
1074	+44 2652	6·36 A 0	17 3 33·397	+182·71	+ 0·21	0·00	+43 52 44·80	− 488·6	+13·0	− 0·1	15 17	43·55 42·96
1075	−26 11896	6·20 A 0	17 3 47·169	+371·80	+ 0·49	+ 0·03	−26 26 48·42	− 486·7	+26·4	− 1·9	9 10	40·72 41·40
1076	− 0 3230	6·02 A 0	17 5 38·742	+309·63	+ 0·25	− 0·15	− 1 0 53·60	− 470·9	+22·0	− 3·8	6 7	38·56 38·28
1077	+31 2967	6·61 K 2	17 6 6·357	+228·42	+ 0·16	− 0·02	+31 16 12·71	− 467·0	+16·3	− 1·6	7 8	39·17 39·35
1078	+28 2667	6·99 F 2	17 6 22·536	+237·35	+ 0·16	− 0·16	+28 17 57·83	− 465·3	+16·9	−13·1	5 6	37·36 37·90
1079	−10 4445	5·58 F 5	17 7 1·884	+331·34	+ 0·30	+ 0·38	−10 27 34·29	− 459·1	+23·6	−10·1	20 48	48·47 45·99
1080	−15 4467	2·63 A 2	17 7 30·408	+343·82	+ 0·35	+ 0·26	−15 39 54·00	− 455·1	+24·6	+ 9·4	7 43	38·00 37·91
1081	−14 4565	7·26 G 0	17 9 7·915	+341·18	+ 0·34	− 0·11	−14 33 36·08	− 441·2	+24·4	− 5·9	8 9	41·04 41·10
1082	+ 8 3367	6·39 K 0	17 9 20·404	+289·11	+ 0·20	+ 0·18	+ 7 57 14·88	− 439·4	+20·7	+ 1·1	8	37·61
1083	+21 3070	6·93 K 0	17 11 31·147	+255·90	+ 0·16	+ 0·07	+21 29 18·31	− 420·8	+18·4	− 0·9	14 15	41·12 40·82
1084	+63 1336	5·47 A 3	17 12 6·410	+ 51·56	+ 0·68	+ 0·20	+62 55 51·78	− 415·8	+ 3·8	+ 4·8	10 15	41·37 41·83
1085	+14 3207	3·48 M b	17 12 21·945	+273·64	+ 0·17	− 0·08	+14 26 45·01	− 413·6	+19·6	0·0	9 8	38·68 38·32
1086	− 9 4525	7·06 F 5	17 12 55·965	+329·81	+ 0·28	+ 0·07	− 9 45 12·04	− 408·8	+23·6	− 2·2	6	38·04
1087	+ 1 3408	* B 8	17 13 59·358	+304·44	+ 0·22	− 0·05	+ 1 15 53·22	− 399·7	+21·8	− 1·6	13 15	42·17 42·62
1088	+39 3098	7·37 F 5	17 15 14·446	+199·20	+ 0·14	− 0·36	+39 31 8·08	− 388·9	+14·3	+13·9	8 9	38·45 39·24
1089	+11 3156	5·28 K 5	17 16 15·805	+282·03	+ 0·17	+ 0·01	+10 55 2·76	− 380·2	+20·2	− 9·6	14 15	41·44 41·39
1090	−17 4773	6·04 A 0	17 16 58·553	+349·24	+ 0·32	− 0·08	−17 42 20·81	− 374·1	+25·1	− 2·6	9 8	40·10 39·78
1091	+71 835	6·81 K 2	17 16 59·205	− 92·99	+ 1·66	− 0·07	+71 50 41·90	− 373·9	− 6·6	− 0·6	10 14	40·52 41·29
1092	−24 13292	3·37 B 3	17 18 56·132	+368·50	+ 0·37	− 0·02	−24 57 5·38	− 357·2	+26·5	− 2·1	8 9	40·10 39·27
1093	−21 4597	5·96 K 0	17 21 44·436	+358·95	+ 0·32	− 0·15	−21 23 46·89	− 333·3	+25·8	− 3·4	8	40·40
1094	+50 2400	7·87 F 2	17 23 12·254	+147·50	+ 0·24	− 0·20	+50 28 11·61	− 320·4	+10·6	− 6·6	7 8	45·69 45·06
1095	− 1 3329	6·31 F 5	17 23 22·000	+311·03	+ 0·20	+ 0·48	− 1 36 35·42	− 319·0	+22·4	+ 4·7	6 7	46·18 44·67
1096	+80 544	5·91 K 2	17 23 22·650	−455·02	+ 5·80	+ 0·64	+80 10 58·50	− 318·9	−32·6	0·0	8 11	45·36 45·12
1097	+16 3183	6·69 F 2	17 23 26·632	+268·43	+ 0·15	− 0·13	+16 25 34·40	− 318·4	+19·4	+ 2·9	5 6	41·40 41·27
1098	+ 7 3368	5·98 *	17 23 54·053	+289·63	+ 0·17	− 0·01	+ 7 38 16·65	− 314·4	+20·9	− 0·9	7	44·69
1099	+27 2809	6·36 A 5	17 24 0·556	+240·32	+ 0·14	+ 0·02	+26 55 15·23	− 313·5	+17·4	+ 1·6	8	44·58
1100	+ 4 3422	4·44 K 0	17 24 1·903	+297·68	+ 0·18	− 0·01	+ 4 10 55·93	− 313·3	+21·5	+ 0·6	20 91	43·69 40·72

Position 1950 + T = Position 1950 + T (1st Term) + T^2 (2nd Term) + T′ (P.M.). T in centuries from 1950·0, T′ in centuries from epoch.

*1087 5m7 to 6m4 *1098 A0 +-G

No.	BD or CD No.	M + Sp.	R.A. 1950	Precession 1st Term	Precession 2nd Term	P.M.	Dec. 1950	Precession 1st Term	Precession 2nd Term	P.M.	No. Obs.	Epoch 1900+
	°		h m s	s	s	s	° ′ ″	″	″	″		
1101	+58 1731	6·52 A 2	17 25 19·659	+ 90·13	+ 0·38	− 0·11	+58 41 35·32	− 302·0	+ 6·6	+ 1·2	9 13	42·23 41·88
1102	+52 2065	2·99 G 0	17 29 18·013	+135·76	+ 0·24	− 0·21	+52 20 15·70	− 267·7	+ 9·8	+ 1·3	15 15	43·08 42·67
1103	− 5 4461	5·69 A 2	17 30 49·579	+320·58	+ 0·19	− 0·32	− 5 42 34·64	− 254·4	+32·2	−10·2	14 12	41·65 40·84
1104	−11 4411	5·68 B 8	17 31 59·347	+333·62	+ 0·21	− 0·10	−11 12 35·27	− 244·3	+24·2	+ 0·6	4 7	38·81 38·44
1105	+12 3252	2·14 A 5	17 32 36·645	+277·69	+ 0·14	+ 0·80	+12 35 43·65	− 238·9	+20·2	−22·6	19 100	44·61 41·34
1106	+41 2856	7·16 A 0	17 33 5·095	+192·21	+ 0·16	− 0·02	+40 56 25·62	− 234·8	+14·0	+ 1·4	5 7	43·82 43·74
1107	+12 3256	7·04 K 5	17 33 31·241	+278·93	+ 0·14	0·00	+12 4 38·76	− 231·1	+20·2	+ 0·5	5 6	45·36 44·57
1108	+30 3033	5·76 A 2	17 34 42·404	+228·11	+ 0·14	+ 0·21	+30 48 53·38	− 220·7	+16·6	− 1·1	7 9	39·85 40·56
1109	−15 4622	5·92 A 5	17 34 43·934	+344·26	+ 0·22	− 0·08	−15 32 31·58	− 220·5	+25·0	− 0·5	9 10	39·70 39·39
1110	+48 2542	5·54 K 0	17 35 19·074	+156·57	+ 0·19	+ 0·29	+48 36 49·52	− 215·4	+11·4	+ 5·8	7 8	37·69 38·31
1111	+24 3218	5·67 A 0	17 35 27·374	+247·24	+ 0·13	− 0·11	+24 20 18·14	− 214·2	+18·0	− 0·1	11 12	43·14 42·52
1112	+36 2912	6·85 K 0	17 36 34·657	+207·99	+ 0·14	+ 0·40	+36 46 28·42	− 204·4	+15·1	+ 0·3	7 9	39·58 40·36
1113	+ 3 3465	6·56 K 0	17 36 48·006	+299·00	+ 0·15	− 1·21	+ 3 35 0·34	− 202·5	+21·8	−10·3	9 10	40·57 40·68
1114	+46 2349	3·79 B 3	17 38 3·040	+169·44	+ 0·17	− 0·09	+46 1 55·18	− 191·6	+12·3	+ 0·4	18 16	45·15 44·97
1115	+ 4 3489	2·94 K 0	17 41 0·055	+296·65	+ 0·14	− 0·28	+ 4 35 11·08	− 166·0	+21·6	+15·9	14 38	48·25 44·44
1116	+27 2888	3·48 G 5	17 44 30·171	+237·19	+ 0·12	− 2·38	+27 45 0·70	− 135·5	+17·2	−74·4	8 7	42·98 42·18
1117	−22 4423	6·24 K 0	17 44 44·189	+362·45	+ 0·18	+ 0·01	−22 27 38·80	− 133·4	+26·4	− 1·6	7	46·53
1118	−14 4770	6·07 B 9	17 44 45·549	+342·32	+ 0·16	− 0·10	−14 42 31·46	− 133·2	+24·9	− 2·6	9 8	45·18 45·19
1119	+17 3334	5·58 A 0	17 44 55·474	+264·74	+ 0·12	+ 0·05	+17 42 50·83	− 131·7	+19·3	− 1·2	7 8	43·15 42·33
1120	+ 2 3403	3·74 A 0	17 45 23·040	+300·98	+ 0·14	− 0·16	+ 2 43 29·06	− 127·7	+21·9	− 7·1	3 18	48·21 41·52
1121	+80 555	7·10 M a	17 46 7·764	−473·06	+ 2·46	− 0·70	+80 18 5·64	− 121·2	−34·4	+ 0·4	6 10	42·68 40·34
1122	+25 3353	5·34 K 0	17 46 47·383	+243·31	+ 0·12	− 0·06	+25 38 17·92	− 115·5	+17·7	− 4·3	8 9	38·57 39·58
1123	+ 9 3485	6·79 K 5	17 47 47·164	+284·13	+ 0·12	− 0·27	+ 9 51 44·40	− 106·7	+20·7	− 5·2	5 7	38·21 37·45
1124	+86 269	4·44 A 0	17 48 18·033	−1945·16	+18·16	+ 1·13	+86 36 34·34	− 102·2	−141·6	+ 5·5	175 183	40·70 40·57
1125	− 1 3412	6·45 K 0	17 49 24·260	+310·18	+ 0·12	− 0·12	− 1 13 31·77	− 92·7	+22·6	− 0·4	9	38·02
1126	− 7 4523	6·87 G 5	17 52 15·037	+325·44	+ 0·12	− 0·35	− 7 43 31·15	− 67·8	+23·8	− 5·7	9 10	41·98 41·44
1127	+22 3237	5·69 K 2	17 53 44·648	+252·08	+ 0·11	− 0·04	+22 28 13·81	− 54·7	+18·4	− 0·3	9 10	39·46 40·46
1128	+55 1995	6·10 F 0	17 54 28·533	+109·47	+ 0·16	+ 0·37	+55 58 32·27	− 48·3	+ 8·0	+11·6	6 8	44·22 42·20
1129	+51 2282	2·42 K 5	17 55 26·560	+139·42	+ 0·15	− 0·13	+51 29 38·92	− 39·8	+10·2	− 2·0	6 7	44·11 45·02
1130	+33 2995	6·78 K 0	17 55 34·518	+219·22	+ 0·12	+ 0·14	+33 24 19·30	− 38·7	+16·0	− 1·4	6	43·10
1131	+62 1586	7·22 K 0	17 55 55·638	+ 49·44	+ 0·20	− 0·72	+62 36 47·77	− 35·6	+ 3·6	+ 8·7	8 8	47·93 48·12
1132	+14 3374	7·29 A 0	17 56 3·959	+272·74	+ 0·11	+ 0·07	+14 30 51·48	− 34·4	+19·9	− 2·1	5 6	43·40 42·27
1133	− 9 4632	3·50 K 0	17 56 16·354	+330·33	+ 0·10	− 0·06	− 9 46 8·23	− 32·6	+24·0	−12·0	9 44	46·82 43·28
1134	+52 2119	7·71 A 2	17 56 57·732	+134·95	+ 0·14	+ 0·06	+52 13 18·20	− 26·5	+ 9·8	− 2·8	5 6	46·78 45·08
1135	+ 4 3570	4·81 B 3	17 57 47·100	+297·12	+ 0·10	− 0·01	+ 4 22 11·87	− 19·4	+21·6	− 1·6	6 7	38·46 40·05
1136	+ 2 3458	3·95 B5p	17 58 8·400	+300·48	+ 0·10	− 0·04	+ 2 55 56·56	− 16·3	+21·9	− 1·0	6 50	44·56 40·60
1137	−17 4987	6·31 K 2	17 58 28·688	+348·58	+ 0·10	− 0·02	−17 9 24·07	− 13·3	+25·4	− 0·7	5 6	44·41 45·10
1138	+44 2812	7·22 F 2	18 1 2·307	+177·24	+ 0·12	− 0·44	+44 13 57·97	+ 9·1	+13·0	− 6·0	11 12	39·07 39·19
1139	+39 3310	7·46 A 0	18 2 28·094	+197·28	+ 0·12	− 0·10	+39 28 37·26	+ 21·6	+14·4	− 3·0	12 13	39·61 40·37
1140	−30 15215	3·07 K 0	18 2 35·718	+385·80	+ 0·05	− 0·41	−30 25 32·13	+ 22·7	+28·2	−18·5	4	36·86
1141	+79 571	5·80 F 5	18 3 53·456	−450·33	− 0·32	+ 1·66	+79 59 59·26	+ 24·1	−32·8	+11·9	8 9	45·42 45·18
1142	−21 4855	6·22 B 1	18 4 11·305	+359·82	+ 0·06	− 0·08	−21 27 2·44	+ 36·6	+26·2	− 0·1	8 7	43·59 43·02
1143	+ 9 3564	3·73 A 3	18 4 58·659	+284·84	+ 0·08	− 0·43	+ 9 33 18·11	+ 43·5	+20·8	+ 8·2	13 117	47·28 41·02
1144	+15 3365	6·78 K 0	18 5 6·475	+269·25	+ 0·10	− 0·08	+15 54 40·71	+ 44·7	+19·6	−14·9	6	41·44
1145	+26 3178	6·00 A 3	18 5 48·466	+241·92	+ 0·10	− 0·05	+26 5 19·43	+ 50·8	+17·6	+ 3·0	9 8	43·24 44·58
1146	+49 2732	6·31 A 0	18 5 51·228	+149·81	+ 0·10	− 0·05	+49 42 8·22	+ 51·2	+10·9	+ 1·5	6 7	43·76 43·31
1147	− 2 4558	6·85 G 5	18 6 2·020	+314·13	+ 0·07	+ 0·07	− 2 54 59·10	+ 52·8	+22·9	+ 0·2	6 7	46·40 45·58
1148	−13 4863	6·50 K 0	18 6 52·957	+340·49	+ 0·06	+ 0·01	−13 56 39·87	+ 60·1	+24·8	+ 0·1	6	39·64
1149	+ 6 3639	7·13 K 0	18 7 16·750	+292·83	+ 0·08	− 0·30	+ 6 11 44·39	+ 63·7	+21·2	+ 2·8	9 11	39·38 39·95
1150	−21 4908	4·01 B8p	18 10 46·341	+358·76	+ 0·02	+ 0·01	−21 4 25·27	+ 94·2	+26·1	− 0·1	19 20	42·60 42·80

Position 1950 + T = Position 1950 + T (1st Term) + T^2 (2nd Term) + T′ (P.M.). T in centuries from 1950·0, T′ in centuries from epoch.

No.	BD or CD No.		M + Sp.		R.A. 1950			Precession 1st Term	Precession 2nd Term	P.M.	Dec. 1950			Precession 1st Term	Precession 2nd Term	P.M.	No. Obs.		Epoch 1900+	
	°				h	m	s	s	s	s	°	′	″	″	″	″				
1151	+30	3162	6·98	K 0	18	13	58·501	+229·14	+ 0·10	+ 0·23	+30	22	53·13	+ 122·2	+16·7	+ 1·2	11	12	39·89	39·95
1152	−17	5112	5·98	K 5	18	14	16·988	+349·10	+ 0·01	− 0·03	−17	23	34·08	+ 120·4	+25·4	− 2·2	8	9	39·64	39·30
1153	− 9	4678	6·30	A 5	18	14	38·885	+330·31	+ 0·03	− 0·01	− 9	46	38·21	+ 128·0	+24·0	− 6·4	16	16	42·67	43·11
1154	+13	3593	6·18	B 5	18	15	45·482	+274·69	+ 0·08	− 0·07	+13	45	23·82	+ 137·6	+20·0	− 2·6	10	9	39·71	38·84
1155	+24	3381	5·49	K 5	18	17	7·129	+246·82	+ 0·09	+ 0·06	+24	25	25·79	+ 149·6	+17·9	− 0·3	9	8	39·31	39·52
1156	−29	14834	2·84	K 0	18	17	47·512	+383·77	− 0·07	+ 0·31	−29	51	3·39	+ 155·5	+27·9	− 2·9	4	3	37·86	37·62
1157	+ 3	3680	4·92	G 5	18	18	22·213	+299·52	+ 0·05	− 0·04	+ 3	21	11·17	+ 160·5	+21·7	+ 1·0	10	11	43·53	42·91
1158	− 2	4599	3·42	K 0	18	18	43·385	+314·11	+ 0·03	− 3·72	− 2	54	42·83	+ 163·6	+22·8	−69·7	23	121	46·69	42·04
1159	+21	3411	3·92	K 0	18	21	33·805	+254·27	+ 0·08	+ 1·37	+21	44	46·46	+ 188·4	+18·4	−24·1	7	11	40·19	40·88
1160	−20	5134	4·96	*	18	22	22·300	+357·24	− 0·05	+ 0·04	−20	34	12·91	+ 195·3	+25·8	− 2·9	8	11	40·53	39·65
1161	+ 7	3682	5·69	*	18	23	14·386	+288·64	+ 0·05	− 0·06	+ 8	0	8·92	+ 202·9	+20·9	− 0·6	13	14	40·77	40·41
1162	+29	3259	5·71	A 2	18	24	2·959	+231·22	+ 0·09	+ 0·03	+29	47	55·93	+ 210·0	+16·8	− 2·2	12	15	41·62	42·42
1163	−25	13149	2·94	K 0	18	24	53·062	+370·55	− 0·10	− 0·33	−25	27	2·19	+ 217·2	+26·8	−18·3	6		38·81	
1164	−26	13192	6·28	A 3	18	24	58·910	+374·39	− 0·10	− 0·01	−26	47	19·52	+ 218·1	+27·1	− 4·1	9	9	43·03	42·92
1165	−14	5071	4·73	A 3	18	26	20·793	+341·90	− 0·04	0·00	−14	35	57·85	+ 229·9	+24·7	− 0·3	8	81	44·98	41·23
1166	−10	4713	5·80	B 3	18	28	39·263	+332·69	− 0·03	− 0·03	−10	49	55·27	+ 249·9	+24·0	− 1·9	11	10	39·72	39·32
1167	+16	3529	5·67	A 0	18	28	50·907	+267·07	+ 0·06	− 0·32	+16	53	32·97	+ 251·6	+19·2	− 2·7	10	14	40·44	40·22
1168	+41	3075	7·17	F 5	18	29	21·885	+191·84	+ 0·08	− 0·26	+41	4	9·96	+ 256·1	+13·8	+ 2·3	8	10	39·78	39·55
1169	+83	536	6·15	A 2	18	30	47·717	−793·69	−10·02	+ 0·57	+83	8	32·77	+ 268·5	−57·4	− 3·1	57	53	46·70	46·24
1170	+52	2232	6·43	B 9	18	31	2·618	+137·40	+ 0·02	− 0·16	+52	4	38·25	+ 270·7	+ 9·8	+ 0·5	6	10	40·44	42·28
1171	+38	3213	6·90	F 8	18	31	10·918	+200·91	+ 0·08	− 0·04	+38	47	44·95	+ 271·8	+14·4	− 8·8	10	11	38·53	38·73
1172	+56	2113	4·95	F8p	18	31	42·742	+103·49	− 0·06	− 0·11	+57	0	23·90	+ 276·4	+ 7·4	− 0·7	6		41·15	
1173	+20	3847	6·44	A 2	18	32	10·382	+258·06	+ 0·06	− 0·01	+20	25	34·32	+ 280·4	+18·6	− 0·6	6	7	38·15	39·22
1174	+46	2508	6·66	A 0	18	32	22·805	+169·49	+ 0·06	− 0·01	+46	10	44·17	+ 282·2	+12·2	+ 1·4	6	9	39·46	40·94
1175	+10	3573	6·38	A 0	18	32	26·350	+281·97	+ 0·04	− 0·01	+10	51	4·20	+ 282·7	+20·3	− 0·9	4	6	37·89	38·15
1176	+67	1079	6·81	K 5	18	32	26·820	− 15·81	− 0·50	− 0·28	+67	44	16·36	+ 282·8	− 1·2	− 1·0	7	7	44·27	44·11
1177	− 8	4638	4·06	K 0	18	32	29·123	+326·58	− 0·04	− 0·14	− 8	16	47·29	+ 283·1	+23·5	−31·2	5	51	43·19	39·75
1178	+ 0	3975	7·02	F 8	18	34	36·697	+305·24	0·00	+ 0·10	+ 0	54	26·26	+ 301·5	+22·0	+ 2·0	10		38·93	
1179	−17	5271	6·80	F 2	18	34	57·304	+348·39	− 0·10	0·00	−17	16	31·44	+ 304·5	+25·0	− 0·1	10	12	40·58	40·68
1180	+38	3238	0·14	A 0	18	35	14·428	+201·41	+ 0·08	+ 1·70	+38	44	6·31	+ 307·0	+14·5	+28·3	9	12	39·09	39·02
1181	+62	1637	5·60	A 0	18	37	6·384	+ 54·22	+ 0·26	− 0·14	+62	28	50·49	+ 323·1	+ 3·8	+ 4·2	14	20	42·41	42·76
1182	− 9	4796	4·74	F 0	18	39	32·099	+328·41	− 0·07	+ 0·03	− 9	6	7·15	+ 344·0	+23·5	0·0	23	108	47·46	42·12
1183	+31	3332	6·47	A 0	18	39	47·902	+226·46	+ 0·08	+ 0·01	+31	34	5·58	+ 346·3	+16·2	+ 0·4	9	11	38·86	39·19
1184	−25	13394	5·76	B 8	18	41	45·157	+368·78	− 0·21	+ 0·02	−25	3	45·74	+ 363·1	+26·4	− 2·7	7	8	41·46	40·86
1185	−27	13170	3·30	B 8	18	42	31·899	+374·37	− 0·24	+ 0·39	−27	2	38·55	+ 369·8	+26·7	+ 0·1	7	8	38·21	39·50
1186	−22	4854	5·80	K 2	18	43	19·655	+361·55	− 0·20	+ 0·21	−22	26	46·56	+ 376·6	+25·8	− 0·2	8	9	39·28	39·43
1187	+18	3817	6·27	K 5	18	44	29·634	+263·07	+ 0·05	+ 0·16	+18	39	4·24	+ 386·7	+18·8	− 2·6	9	11	39·75	39·92
1188	− 4	4582	4·47	G 0	18	44	31·253	+318·34	− 0·06	− 0·08	− 4	48	10·92	+ 386·9	+22·7	− 1·7	29	113	46·77	41·94
1189	−13	5119	6·51	K 2	18	47	41·604	+339·03	− 0·14	− 0·07	−13	37	52·74	+ 414·1	+24·1	− 0·5	9		39·08	
1190	+26	3368	6·92	A 2	18	47	58·384	+242·54	+ 0·06	− 0·01	+26	21	56·32	+ 415·9	+17·2	+ 2·9	11	11	40·40	41·13
1191	+ 7	3862	7·06	K 5	18	48	0·415	+290·36	+ 0·00	− 0·16	+ 7	23	58·51	+ 416·8	+20·6	− 3·9	9		38·20	
1192	+33	3223	*	**	18	48	13·918	+221·48	+ 0·07	− 0·02	+33	18	12·34	+ 418·7	+15·7	− 0·2	22	23	45·04	44·34
1193	− 3	4390	6·89	A 2	18	48	28·109	+314·91	− 0·06	− 0·34	− 3	19	13·05	+ 420·7	+22·3	− 5·5	4	9	39·42	39·65
1194	− 3	4392	6·04	A 3	18	48	44·533	+315·03	− 0·06	− 0·03	− 3	22	40·34	+ 423·0	+22·4	− 2·7	11	13	42·52	43·07
1195	+21	3582	5·33	B 9	18	50	8·177	+256·30	+ 0·05	− 0·08	+21	21	48·61	+ 435·0	+18·1	− 1·2	12	13	40·82	40·74
1196	+36	3307	5·51	B 3	18	51	58·648	+209·55	+ 0·06	− 0·02	+36	54	29·00	+ 450·6	+14·8	− 0·6	13		40·11	
1197	−26	13595	2·14	B 3	18	52	9·897	+371·84	− 0·30	+ 0·10	−26	21	37·97	+ 452·3	+26·3	− 5·5	11	12	40·49	40·50
1198	−16	5078	5·58	F 5	18	52	38·238	+345·72	− 0·18	− 0·24	−16	26	19·49	+ 456·3	+24·4	−18·7	8	9	40·81	40·23
1199	+ 4	3916	4·50	A 5	18	53	43·976	+297·93	− 0·03	+ 0·29	+ 4	8	12·65	+ 465·6	+21·0	+ 3·6	27	97	47·93	42·54
1200	− 6	4976	5·04	K 0	18	54	22·939	+320·77	− 0·10	+ 0·41	− 5	54	45·62	+ 471·1	+22·6	− 3·7	10		40·04	

Position 1950 + T = Position 1950 + T (1st Term) + T^2 (2nd Term) + T′ (P.M.). T in centuries from 1950·0, T′ in centuries from epoch.

*1160 K0 + A0 *1161 G0 + A3 *1192 3m4 to 4m3 **1192 B8p + B2p

No.	BD or CD No.	M + Sp	R A. 1950	Precession 1st Term	Precession 2nd Term	P.M.	Dec. 1950	Precession 1st Term	Precession 2nd Term	P.M.	No. Obs.	Epoch 1900+
	°		h m s	s	s	s	° ′ ″	″	″	″		
1201	+ 2 3738	5·65 B 8	18 54 45·682	+301·73	− 0·04	− 0·06	+ 2 28 5·04	+ 474·3	+21·2	− 1·4	8	40·41
1202	+13 3838	5·94 A3p	18 56 29·136	+275·41	+ 0·02	− 0·05	+13 50 17·24	+ 489·0	+19·4	− 5·5	7 9	38·46 39·40
1203	−32 3286	3·30 A0p	18 57 4·272	+224·45	+ 0·06	− 0·07	+32 37 10·71	+ 494·0	+15·8	+ 0·1	11	40·68
1204	+40 3544	6·12 B 5	18 57 8·302	+196·30	+ 0·05	+ 0·02	+40 36 34·29	+ 494·5	+13·8	− 0·3	7 7	39·37 39·35
1205	+14 3736	4·21 K 0	18 57 21·122	+272·65	+ 0·02	− 0·39	+14 59 56·73	+ 496·3	+19·2	− 7·4	20 100	47·22 41·82
1206	+82 572	6·83 A 0	18 59 20·858	−648·17	−14·62	+ 0·53	+82 18 6·06	+ 513·2	−45·8	+ 2·2	18 19	42·57 42·48
1207	−30 16575	2·71 A 2	18 59 25·853	+381·75	− 0·41	− 0·12	−29 57 11·54	+ 513·9	+26·8	− 0·1	4 5	37·94 38·48
1208	+19 3888	6·25 K 0	19 0 41·769	+261·44	+ 0·04	− 0·03	+19 35 12·36	+ 524·6	+18·3	− 0·8	11 12	39·81 39·46
1209	−23 15008	6·90 A 0	19 1 13·193	+361·96	− 0·31	− 0·06	−22 58 18·42	+ 529·1	+25·3	+ 0·3	10	39·97
1210	+45 2825	6·82 B 9	19 3 5·330	+174·89	+ 0·01	+ 0·30	+45 50 41·08	+ 544·8	+12·2	+ 1·2	7 9	39·40 39·23
1211	+13 3899	3·02 A 0	19 3 6·642	+275·77	0·00	− 0·08	+13 47 16·54	+ 545·0	+19·2	− 9·4	11	40·94
1212	− 5 4876	3·55 B 9	19 3 35·685	+318·48	− 0·12	− 0·17	− 4 57 32·29	+ 549·0	+22·2	− 8·8	17 76	47·10 42·05
1213	− 1 3649	6·72 B 8	19 3 59·771	+310·52	− 0·09	+ 0·10	− 1 25 27·48	+ 552·5	+21·6	− 0·9	12 13	42·41 41·97
1214	+28 3193	5·46 A 5	19 4 38·523	+237·50	+ 0·05	+ 0·55	+28 32 54·73	+ 557·9	+16·5	+ 8·7	13 13	40·02 41·03
1215	+ 5 4040	5·37 F 2	19 6 32·925	+293·89	− 0·04	− 0·10	+ 5 59 35·68	+ 573·8	+20·4	− 7·8	15	40·54
1216	−21 5275	3·02 F 2	19 6 47·418	+356·72	− 0·31	− 0·01	−21 6 17·29	+ 575·9	+24·8	− 3·7	13 11	41·99 40·69
1217	−12 5311	5·62 K 0	19 10 27·795	+335·25	− 0·22	+ 0·07	−12 22 5·16	+ 606·5	+23·2	− 2·6	13 13	42·52 42·29
1218	+56 2209	5·24 K 0	19 10 43·743	+112·99	− 0·24	+ 0·44	+56 46 24·24	+ 608·7	+ 7·7	+ 4·4	10 11	43·75 43·48
1219	−25 13866	4·93 F 5	19 12 28·487	+367·47	− 0·42	+ 0·32	−25 20 40·36	+ 623·3	+25·4	− 3·0	5 6	43·90 43·37
1220	+67 1129	3·24 K 0	19 12 32·265	− 0·35	− 1·16	+ 1·60	+67 34 25·05	+ 624·0	− 0·1	+ 9·3	14 11	46·68 46·24
1221	+20 4088	5·62 A 3	19 13 7·970	+258·26	+ 0·04	+ 0·24	+21 8 36·01	+ 628·7	+17·8	+ 0·9	7 8	40·68 40·68
1222	−19 5379	5·03 K 0	19 14 42·575	+351·02	− 0·32	− 0·09	−19 2 36·79	+ 641·9	+24·1	− 1·6	8 7	46·36 45·90
1223	+11 3790	5·14 A 5	19 15 28·119	+281·59	− 0·02	− 0·04	+11 30 13·74	+ 648·2	+19·3	+ 1·8	3 5	43·94 44·62
1224	+53 2216	3·98 K 0	19 15 56·776	+137·97	− 0·14	+ 0·61	+53 16 31·26	+ 652·1	+ 9·4	+12·3	7 6	44·88 44·26
1225	+37 3413	6·19 A 0	19 17 15·442	+211·08	+ 0·05	+ 0·08	+37 21 7·32	+ 662·9	+14·4	+ 1·5	5 6	43·23 42·81
1226	− 5 4936	5·10 G 5	19 17 52·675	+319·48	− 0·17	+ 0·74	− 5 30 39·20	+ 668·0	+21·8	+ 4·7	5 7	44·62 44·35
1227	+65 1345	4·63 A 2	19 20 24·818	+ 30·49	− 0·97	+ 0·21	+65 37 5·22	+ 688·9	+ 2·0	+ 4·1	13	42·42
1228	+83 552	6·34 A 2	19 21 38·987	−769·91	−26·82	+ 0·44	+83 22 10·28	+ 699·0	−52·6	+ 1·0	10	46·55
1229	+29 3584	4·86 B 3	19 22 9·155	+236·47	+ 0·06	+ 0·09	+29 31 20·26	+ 703·1	+16·0	+ 1·0	9 10	40·58 40·59
1230	−14 5428	5·81 K 0	19 22 32·045	+338·50	− 0·29	+ 0·49	−13 59 52·09	+ 706·3	+22·9	+ 5·2	7	41·97
1231	+ 2 3879	3·44 F 0	19 22 58·517	+300·74	− 0·10	+ 1·67	+ 3 0 47·93	+ 709·9	+20·4	+ 8·5	14 67	44·33 41·28
1232	−22 5105	5·56 K 0	19 23 20·220	+357·47	− 0·42	+ 0·23	−21 52 38·60	+ 712·8	+24·2	− 0·2	6 7	43·15 42·66
1233	+76 734	* N b	19 23 22·327	−211·27	− 5·26	− 0·29	+76 27 41·90	+ 713·1	−14·6	+ 0·2	7 8	45·60 45·48
1234	+19 4017	6·04 K 5	19 24 17·364	+262·46	+ 0·02	− 0·08	+19 47 26·85	+ 720·6	+17·7	− 4·7	7 10	40·70 40·90
1235	+44 3133	6·72 G 5	19 24 24·997	+183·41	0·00	− 0·46	+44 49 51·13	+ 721·7	+12·2	− 7·7	13 12	43·98 42·93
1236	+62 1716	6·46 K 5	19 25 51·825	+ 68·92	− 0·66	+ 0·23	+62 27 16·09	+ 733·5	+ 4·6	+ 5·0	10	40·08
1237	− 0 3760	6·52 K 2	19 26 44·409	+307·02	− 0·13	+ 0·02	+ 0 8 30·66	+ 740·5	+20·6	− 0·9	11	40·76
1238	−27 14004	5·53 K 0	19 26 46·642	+370·83	− 0·54	+ 0·23	−27 5 23·04	+ 740·9	+25·0	− 4·5	6 7	39·22 39·29
1239	+33 3480	6·64 K 0	19 28 24·694	+225·01	+ 0·06	+ 0·02	+33 37 22·84	+ 754·1	+15·0	− 2·0	9 10	38·78 39·66
1240	+51 2605	3·94 A 2	19 28 26·625	+151·01	− 0·11	+ 0·19	+51 37 20·12	+ 754·4	+10·0	+13·0	19 17	44·40 44·03
1241	+27 3410	3·24 *	19 28 42·220	+241·95	+ 0·05	− 0·03	+27 51 12·41	+ 756·5	+16·2	− 0·4	13 14	41·76 41·33
1242	+ 5 4177	7·16 F 8	19 29 15·260	+295·07	− 0·08	+ 0·68	+ 5 39 41·97	+ 761·0	+19·7	− 0·8	8 12	40·95 40·28
1243	+70 1073	6·25 K 2	19 31 24·809	− 47·87	− 2·26	− 0·21	+70 52 51·30	+ 778·4	− 3·4	+ 5·7	14 14	42·78 42·57
1244	+47 2870	6·70 A 5	19 33 14·459	+170·78	− 0·04	− 0·21	+48 3 17·30	+ 793·1	+11·2	− 7·5	9 11	41·33 41·22
1245	−25 14184	4·66 B 9	19 33 39·917	+364·50	− 0·54	+ 0·51	−24 59 43·72	+ 796·5	+24·2	− 2·0	9	42·91
1246	−18 5432	5·87 K 0	19 34 9·318	+347·95	− 0·40	+ 0·10	−18 20 37·51	+ 800·5	+23·1	− 1·3	6	39·36
1247	− 7 5006	5·04 B 0	19 34 12·065	+322·67	− 0·23	0·00	− 7 8 24·78	+ 800·8	+21·4	− 0·4	23 70	46·20 43·08
1248	+21 3849	6·80 A 3	19 34 57·324	+258·18	+ 0·03	+ 0·16	+21 53 33·61	+ 806·9	+17·0	− 0·9	7 8	38·56 38·32
1249	+49 3062	4·64 F 5	19 35 5·995	+161·07	− 0·08	− 0·30	+50 6 14·47	+ 808·0	+10·5	+25·4	12 11	42·68 42·15
1250	+ 3 0974	6·37 B 3	19 36 18·753	+300·36	− 0·12	− 0·06	+ 3 15 59·83	+ 817·7	+19·8	+ 0·4	9 10	38·58 39·81

Position 1950 + T = Position 1950 + T (1st Term) + T^2 (2nd Term) + T′ (P.M.). T in centuries from 1950·0, T′ in centuries from epoch.

*1233 5^m8 to 7^m2 *1241 K0 + A0

No.	BD or CD No		M + Sp.	R.A. 1950	Precession 1st Term	Precession 2nd Term	P.M.	Dec. 1950	Precession 1st Term	Precession 2nd Term	P.M.	No. Obs.	Epoch 1900+
	°			h m s	s	s	s	° ′ ″	″	″	″		
1251	+54	2193	5·86 F 5	19 37 33·681	+134·46	− 0·22	+ 0·43	+54 51 19·47	+ 827·6	+ 8·7	+16·6	8 14	39·31 38·75
1252	+11	3954	6·26 B 9	19 39 52·011	+281·42	− 0·04	− 0·05	+12 4 28·38	+ 846·0	+18·4	− 0·6	13	40·46
1253	+44	3234	2·97 A 0	19 43 24·556	+187·05	0·00	+ 0·44	+45 0 27·64	+ 874·0	+12·0	+ 4·8	9 10	40·04 40·11
1254	+10	4043	2·80 K 2	19 43 52·889	+285·09	− 0·06	+ 0·08	+10 29 24·18	+ 877·7	+18·5	+ 0·3	20 64	44·98 42·13
1255	+18	4240	3·78 *	19 45 9·415	+267·45	0·00	+ 0·02	+18 24 34·47	+ 887·7	+17·3	+ 1·2	11 51	45·91 41·84
1256	+25	3972	6·04 K 0	19 45 42·697	+250·87	+ 0·05	+ 0·56	+25 15 33·94	+ 892·0	+16·2	− 2·7	10 12	40·58 40·77
1257	−29	16546	6·10 F 0	19 46 4·428	+373·37	− 0·71	+ 0·89	−28 54 47·27	+ 894·9	+24·2	−10·9	4 5	38·72 38·30
1258	+ 7	4252	6·39 B 3	19 47 51·864	+291·07	− 0·08	0·00	+ 7 46 29·78	+ 908·9	+18·7	0·0	8 10	39·68 41·09
1259	+ 8	4236	0·89 A 5	19 48 20·370	+289·05	− 0·08	+ 3·60	+ 8 44 2·21	+ 912·6	+18·6	+38·7	12 17	44·06 41·37
1260	− 3	4742	5·64 *	19 50 41·593	+314·03	− 0·22	+ 0·14	− 3 14 43·28	+ 930·8	+20·1	+ 1·6	14 14	41·02 40·96
1261	−24	15668	6·28 K 0	19 51 18·305	+360·10	− 0·60	− 0·99	−24 4 56·73	+ 935·5	+23·0	−41·5	8	38·83
1262	+34	3778	6·82 A 0	19 51 53·962	+226·37	+ 0·07	+ 0·02	+34 27 8·07	+ 940·1	+14·4	− 0·7	11 13	41·14 40·78
1263	− 8	5154	5·78 B 3	19 51 55·260	+324·66	− 0·30	+ 0·02	− 8 21 32·42	+ 940·4	+20·7	− 2·4	9	38·49
1264	+40	3931	6·82 B 3	19 51 56·421	+203·94	+ 0·05	− 0·03	+41 13 27·77	+ 940·5	+12·9	− 1·5	10 11	40·12 40·18
1265	+ 6	4357	3·90 K 0	19 52 51·374	+294·37	+ 0·10	+ 0·26	+ 6 16 52·98	+ 947·5	+18·8	−47·8	14 52	47·01 42·70
1266	+58	2013	5·13 K 2	19 54 58·208	+114·55	− 0·44	− 0·15	+58 42 43·46	+ 963·8	+ 7·1	− 2·1	8 9	38·56 39·03
1267	+19	4229	3·71 K 5	19 56 31·900	+266·33	+ 0·01	+ 0·42	+19 21 17·97	+ 975·7	+16·7	+ 2·8	21 86	44·28 41·87
1268	+10	4126	6·55 K 0	19 56 49·787	+284·30	− 0·06	+ 0·07	+11 10 6·48	+ 978·0	+17·9	+ 0·6	10 11	40·90 40·88
1269	+ 0	4375	6·35 G 5	19 56 50·107	+304·81	− 0·17	+ 0·12	+ 1 14 21·75	+ 978·1	+19·2	+ 5·3	10	40·48
1270	+22	3873	5·70 F 0	19 57 1·746	+257·93	+ 0·07	− 0·55	+22 57 50·36	+ 979·5	+16·2	+ 0·5	10 11	41·20 41·16
1271	−28	16355	4·60 M b	19 59 35·173	+368·53	− 0·75	+ 0·27	−27 51 1·13	+ 999·0	+23·1	+ 2·0	8 9	39·08 38·83
1272	+29	3872	5·68 K 0	20 1 33·370	+241·42	+ 0·08	+ 5·19	+29 45 49·63	+1014·0	+15·0	−53·0	9 11	38·69 38·60
1273	−21	5609	7·11 G 5	20 2 1·549	+352·57	− 0·58	+ 0·33	−21 27 23·17	+1017·5	+22·0	− 3·2	7 9	40·02 39·18
1274	−27	14515	7·08 A 0	20 2 9·115	+365·86	− 0·74	+ 0·04	−26 57 22·05	+1018·3	+22·8	− 0·1	3	40·08
1275	+19	4277	5·26 K 0	20 2 56·327	+265·88	+ 0·02	+ 0·17	+19 50 46·37	+1024·3	+16·4	+ 7·9	8 9	39·57 39·26
1276	+47	3004	5·98 A 0	20 2 58·936	+179·40	− 0·02	+ 0·06	+48 5 11·25	+1024·7	+11·0	+ 0·1	5 7	38·90 38·72
1277	− 4	5013	6·56 K 0	20 3 34·053	+315·79	− 0·25	+ 0·27	− 4 13 19·20	+1029·1	+19·6	− 4·4	6	38·55
1278	+35	3959	5·52 K 0	20 4 30·434	+224·73	+ 0·08	− 1·91	+35 50 6·36	+1036·1	+13·8	−43·8	7 8	37·54 37·93
1279	+61	1970	5·57 K 0	20 4 44·992	+ 93·70	− 0·72	+ 1·69	+61 51 58·61	+1037·9	+ 5·6	+ 7·3	8 11	39·09 39·30
1280	+ 8	4344	6·50 F 5	20 5 25·745	+288·74	− 0·08	+ 0·28	+ 9 15 11·91	+1043·0	+17·8	+ 2·2	7	38·70
1281	+84	451	6·61 A 2	20 6 53·268	−878·83	−55·00	− 0·86	+84 31 36·69	+1053·9	−54·7	− 4·1	72 63	44·20 44·21
1282	− 1	3911	3·37 A 0	20 8 43·472	+309·25	− 0·22	+ 0·22	− 0 58 16·20	+1067·5	+18·9	+ 0·7	13 47	39·24 38·10
1283	−13	5608	5·88 F 5	20 9 38·598	+332·89	− 0·42	+ 1·31	−12 45 53·62	+1074·3	+20·2	−19·3	8	38·59
1284	+67	1235	6·79 B 3	20 10 43·715	+ 27·26	− 1·80	− 0·23	+68 7 18·47	+1082·2	+ 1·4	− 0·3	8 10	40·69 40·20
1285	+51	2796	6·35 K 2	20 11 8·197	+167·05	− 0·08	− 0·16	+51 18 44·20	+1085·2	+10·0	− 1·5	10	40·42
1286	+ 4	4395	6·57 G 5	20 13 36·780	+298·69	− 0·14	− 0·33	+ 4 25 37·35	+1103·4	+17·9	− 5·5	10	38·34
1287	−12	5685	3·77 G 5	20 15 16·855	+332·35	− 0·43	+ 0·41	−12 42 4·69	+1115·6	+20·0	+ 0·6	8 28	47·04 44·36
1288	−19	5776	5·46 K 0	20 16 30·611	+346·01	− 0·58	+ 0·03	−19 16 34·15	+1124·5	+20·6	− 0·7	7 8	39·44 39·12
1289	+34	3967	5·18 F5p	20 16 43·710	+230·43	+ 0·10	+ 0·01	+34 49 31·56	+1126·1	+13·6	− 0·9	11	38·71
1290	− 6	5451	6·66 K 5	20 17 46·476	+319·92	− 0·31	− 0·55	− 6 31 8·58	+1133·6	+18·5	− 8·3	9	38·91
1291	+14	4263	6·34 G 5	20 18 0·940	+279·04	− 0·02	− 0·08	+14 24 36·76	+1135·3	+16·5	+ 0·7	10 11	39·40 39·06
1292	−15	5629	3·25 *	20 18 12·154	+336·69	− 0·48	+ 0·26	−14 56 26·79	+1136·7	+20·0	+ 0·3	13 41	43·05 41·98
1293	+25	4215	7·10 K 2	20 20 25·595	+253·68	+ 0·07	− 0·01	+26 8 12·92	+1152·6	+14·9	− 1·1	7 9	38·93 39·34
1294	+39	4159	2·32 F8p	20 20 25·870	+215·30	+ 0·10	0·00	+40 5 44·27	+1152·6	+12·6	+ 0·1	14 16	41·79 41·09
1295	+42	3721	6·33 K 0	20 21 11·951	+206·27	+ 0·08	+ 0·44	+42 49 15·54	+1158·1	+12·0	+ 3·5	10	38·99
1296	−29	17049	5·97 K 0	20 22 23·329	+367·12	− 0·89	+ 0·08	−28 49 37·15	+1166·7	+21·5	+ 1·9	7	37·85
1297	+16	4259	6·17 K 0	20 24 6·050	+273·98	0·00	+ 0·06	+17 9 2·46	+1178·8	+15·9	− 1·6	14	39·71
1298	−18	5685	5·20 B 8	20 24 27·619	+343·19	− 0·58	+ 0·08	−18 22 37·97	+1181·3	+20·0	− 1·0	10 12	39·26 38·76
1299	−26	15036	6·56 F 8	20 25 1·569	+359·36	− 0·80	+ 0·14	−25 46 22·70	+1185·4	+20·9	+ 3·2	7 9	39·73 39·40
1300	+56	2421	6·21 A 0	20 25 10·977	+144·79	− 0·26	+ 0·13	+56 28 23·21	+1186·5	+ 8·3	+ 0·9	15 14	41·46 41·58

Positi.n 1950 + T = Position 1950 + T (1st Term) + T^2 (2nd Term) + T′ (P.M.). T in centuries from 1950·0, T′ in centuries from epoch.

*1255 Ma + A0 *1260 F0p + A *1292 G0 + A0

No.	BD or CD No.		M + Sp.		R.A. 1950			Precession 1st Term	Precession 2nd Term	P.M.	Dec. 1950			Precession 1st Term	Precession 2nd Term	P.M.	No. Obs.		Epoch 1900+	
	°				h	m	s	s	s	s	°	′	″	″	″	″				
1301	+ 7	4477	6·26	K 0	20	25	41·454	+291·70	− 0·10	+ 0·24	+ 8	16	14·02	+1190·0	+16·9	+ 1·5	12		41·06	
1302	−22	5442	6·22	K 5	20	26	35·436	+351·86	− 0·70	+ 0·08	−22	33	31·17	+1196·3	+20·4	− 2·6	12		41·42	
1303	−10	5423	5·82	G 5	20	29	39·424	+326·09	− 0·40	+ 2·02	−10	1	32·32	+1217·7	+18·6	+10·2	13		40·65	
1304	+48	3154	5·57	M a	20	29	46·103	+185·07	+ 0·02	+ 0·07	+49	3	2·90	+1218·5	+10·4	− 3·0	6	7	41·51	40·83
1305	+72	957	6·42	K 2	20	30	14·402	− 25·82	− 3·50	− 0·14	+72	21	44·59	+1221·8	− 1·8	− 1·6	16	17	46·71	46·32
1306	+10	4321	3·98	B 5	20	30	49·397	+286·53	− 0·06	+ 0·04	+11	7	55·69	+1225·8	+16·2	− 1·7	18	50	47·11	43·35
1307	+ 4	4486	6·68	K 0	20	31	30·545	+298·61	− 0·15	+ 0·06	+ 4	43	36·03	+1230·5	+16·9	− 0·6	9		39·85	
1308	+83	588	6·16	A 2	20	34	13·796	−603·31	−39·99	+ 1·43	+83	27	16·89	+1249·3	−34·7	− 1·6	15	16	43·56	43·79
1309	+14	4369	3·72	F 5	20	35	12·075	+280·55	− 0·02	+ 0·73	+14	25	12·14	+1255·9	+15·6	− 3·0	1	11	36·90	37·16
1310	+20	4658	4·78	A 0	20	36	17·241	+267·45	+ 0·05	+ 0·44	+21	1	28·00	+1263·3	+14·9	+ 0·8	11	20	48·65	46·41
1311	+23	4084	5·04	B 5	20	36	21·106	+261·28	+ 0·08	+ 0·04	+23	56	22·11	+1263·7	+14·5	− 0·2	7		41·70	
1312	+12	4411	6·06	K 5	20	36	22·333	+283·12	− 0·04	− 0·04	+13	8	18·50	+1263·9	+15·8	− 0·4	7		42·15	
1313	− 5	5335	6·62	K 0	20	36	27·550	+316·59	− 0·32	− 0·02	− 5	6	23·12	+1264·4	+17·6	+ 2·1	5	6	43·53	42·40
1314	+15	4222	3·86	B 8	20	37	18·763	+278·21	0·00	+ 0·41	+15	44	3·86	+1270·2	+15·4	+ 0·1	1	11	35·71	40·30
1315	+78	716	6·78	B 3	20	38	1·881	−235·89	−12·80	− 0·34	+79	15	14·30	+1275·0	−13·6	+ 0·8	6	10	42·38	42·49
1316	+31	4181	5·90	*	20	39	0·953	+242·82	+ 0·14	+ 0·02	+32	7	42·51	+1281·7	+13·4	− 1·5	7		40·04	
1317	+44	3541	1·33	A2p	20	39	43·485	+204·51	+ 0·12	0·00	+45	6	3·01	+1286·4	+11·2	+ 0·5	9	10	41·83	41·63
1318	+19	4501	7·07	A 5	20	42	31·813	+269·80	+ 0·06	− 0·06	+20	18	28·74	+1305·2	+14·6	− 3·9	9	10	40·52	40·84
1319	−25	15018	4·26	F 8	20	43	8·346	+355·47	− 0·84	− 0·40	−25	27	5·82	+1309·2	+19·3	−15·5	7		40·18	
1320	+33	4018	2·64	K 0	20	44	10·838	+239·91	+ 0·16	+ 2·83	+33	46	51·08	+1316·1	+12·9	+33·0	8		38·74	
1321	+52	2799	6·43	K 0	20	44	54·168	+174·87	− 0·02	− 0·97	+52	48	46·35	+1320·9	+ 9·3	−10·6	7	8	43·15	42·72
1322	−10	5506	3·83	A 0	20	44	58·202	+324·47	− 0·42	+ 0·20	− 9	40	47·81	+1321·3	+17·5	− 3·1	4	19	38·69	40·61
1323	+ 5	4613	5·59	A 0	20	45	19·688	+297·09	− 0·13	+ 0·03	+ 5	49	24·17	+1323·7	+16·0	− 0·4	7	8	41·04	40·50
1324	+27	3868	6·95	A 5	20	45	44·577	+255·38	+ 0·12	+ 0·09	+27	24	37·59	+1326·4	+13·7	− 1·6	6		45·20	
1325	−26	15282	5·78	B 8	20	46	19·668	+356·00	− 0·88	+ 0·10	−25	58	1·44	+1330·2	+19·2	− 2·3	6		47·50	
1326	+81	718	5·69	A 0	20	46	19·674	−436·55	−28·40	+ 1·40	+82	20	51·89	+1330·3	−24·1	+ 2·7	145	131	40·89	40·97
1327	− 1	4057	6·53	M b	20	46	43·006	+308·63	− 0·24	− 0·24	− 0	44	57·16	+1332·7	+16·5	− 1·2	6		43·53	
1328	−13	5773	5·99	K 0	20	47	56·438	+329·77	− 0·49	+ 0·83	−12	43	52·61	+1340·7	+17·6	− 7·0	3	6	43·45	41·28
1329	−21	5844	7·07	F 5	20	48	0·951	+346·44	− 0·73	+ 0·07	−21	29	56·83	+1341·2	+18·5	− 8·6	4	5	47·44	46·53
1330	+43	3739	5·07	A 5	20	48	18·105	+211·99	+ 0·15	+ 1·13	+43	52	10·85	+1343·0	+11·2	+13·4	7		41·17	
1331	+63	1663	6·38	B 0	20	48	24·839	+105·36	− 0·83	− 0·17	+63	51	19·46	+1343·8	+ 5·4	− 0·6	8	10	47·42	47·61
1332	− 9	5598	4·80	A 3	20	49	57·442	+323·23	− 0·41	+ 0·26	− 9	10	19·95	+1353·7	+17·1	− 2·8	4	15	44·91	44·08
1333	+36	4314	7·24	A 0	20	52	44·675	+234·22	+ 0·19	+ 0·10	+36	52	56·78	+1371·7	+12·2	− 1·0	9	10	39·40	39·54
1334	+13	4572	5·39	K 0	20	53	14·556	+283·93	− 0·02	+ 0·07	+13	31	47·09	+1374·8	+14·8	− 1·2	11	12	39·64	39·73
1335	−16	5741	5·95	A 3	20	54	52·744	+335·43	− 0·60	+ 0·31	−16	13	30·64	+1385·2	+17·4	+ 0·1	8	9	38·51	38·32
1336	+40	4364	4·04	A 0	20	55	18·416	+223·61	+ 0·20	+ 0·05	+40	58	25·58	+1387·9	+11·5	− 0·9	18	19	43·28	42·88
1337	+ 3	4466	6·88	K 2	20	55	18·512	+300·58	− 0·16	− 0·02	+ 4	0	5·31	+1387·9	+15·5	− 0·1	11		39·83	
1338	+21	4424	5·57	K 5	20	56	2·114	+268·25	− 0·09	− 0·06	+22	7	53·27	+1392·5	+13·8	+ 0·6	14	15	41·08	41·13
1339	+45	3364	5·24	B 3	20	59	26·024	+209·39	+ 0·18	+ 0·03	+45	57	30·53	+1413·7	+10·5	+ 0·7	10		37·24	
1340	+56	2523	6·70	B 8	21	0	33·481	+162·89	− 0·10	− 0·11	+56	52	26·10	+1420·7	+ 8·0	+ 0·7	8		37·20	
1341	+67	1283	7·20	B 5	21	0	59·732	+ 74·90	− 1·52	+ 0·10	+67	57	55·63	+1423·4	+ 3·6	+ 0·8	13	15	42·48	41·60
1342	− 0	4161	7·10	K 2	21	3	59·451	+307·83	− 0·24	+ 0·06	− 0	18	23·31	+1441·7	+15·3	+ 1·5	10	11	39·06	39·22
1343	+26	4073	6·23	K 2	21	4	12·848	+260·65	+ 0·16	+ 0·25	+26	43	23·82	+1443·1	+12·9	− 1·7	7	8	38·61	38·37
1344	+30	4318	*	F 5	21	4	24·207	+251·69	+ 0·19	− 0·04	+30	58	59·41	+1444·2	+12·4	− 0·3	7		37·63	
1345	+15	4340	6·52	K 0	21	5	12·445	+281·80	+ 0·02	+ 0·28	+15	27	26·40	+1449·1	+13·9	− 5·8	8		38·01	
1346	−21	5933	5·27	A 0	21	5	41·969	+343·41	− 0·76	+ 0·12	−21	23	44·67	+1452·0	+17·0	− 5·7	7		38·88	
1347	+ 6	4754	6·38	K 5	21	5	59·942	+296·39	− 0·11	− 0·11	+ 6	47	11·14	+1453·8	+14·6	0·0	6	7	38·59	39·75
1348	−11	5538	4·52	K 0	21	6	52·258	+326·09	− 0·48	+ 0·61	−11	34	31·12	+1459·0	+16·0	− 1·2	14	28	43·02	41·36
1349	+86	319	7·36	A 3	21	9	16·043	−1329·57	−191·36	+ 2·00	+86	49	57·18	+1473·4	−66·0	+ 1·7	32	29	37·77	37·78
1350	+29	4348	3·40	K 0	21	10	48·341	+255·36	+ 0·20	− 0·04	+30	1	15·82	+1482·5	+12·2	− 5·3	11	10	39·42	38·69

Position 1950 + T = Position 1950 + T (1st Term) + T^2 (2nd Term) + T′ (P.M.). T in centuries from 1950·0, T′ in centuries from epoch.

*1316 K0 + A *1344 5m7 to 5m9

No.	BD or CD No.		M + Sp.	R.A. 1950			Precession 1st Term	Precession 2nd Term	P.M.	Dec. 1950			Precession 1st Term	Precession 2nd Term	P.M.	No. Obs.		Epoch 1900+	
	°			h	m	s	s	s	s	°	′	″	″	″	″				
1351	− 6	5720	7·18 K 2	21	12	25·760	+316·33	− 0·35	− 0·11	− 5	45	34·35	+1491·9	+15·0	− 2·6	10		40·27	
1352	+ 4	4635	4·14 *	21	13	19·418	+299·49	− 0·13	+ 0·36	+ 5	2	24·81	+1497·1	+14·2	− 8·3	23	59	44·78	42·90
1353	+24	4357	7·06 G 5	21	13	44·519	+265·56	+ 0·16	− 0·49	+25	13	30·65	+1499·6	+12·5	− 3·5	7	8	40·88	41·86
1354	−18	5903	5·39 B 8	21	15	9·168	+336·26	− 0·68	+ 0·10	−18	11	44·27	+1507·8	+15·8	0·0	8		40·00	
1355	+10	4516	6·32 K 5	21	16	26·668	+290·34	− 0·03	+ 0·21	+10	59	29·90	+1515·2	+13·8	+ 1·5	9	11	39·33	39·24
1356	+43	3877	5·06 Oe5	21	16	35·146	+223·70	+ 0·28	− 0·01	+43	44	5·16	+1516·0	+10·4	− 0·9	9		39·37	
1357	+37	4271	5·83 F 2	21	17	22·374	+239·25	+ 0·28	+ 0·06	+38	1	31·98	+1520·5	+11·0	− 0·6	8	9	39·26	39·10
1358	+61	2111	2·60 A 5	21	17	22·995	+141·00	− 0·37	+ 2·12	+62	22	23·18	+1520·6	+ 6·4	+ 5·2	12	15	42·98	43·98
1359	+52	2913	6·81 K 2	21	18	4·152	+192·85	+ 0·18	+ 0·06	+52	50	44·75	+1524·5	+ 8·8	0·0	12	13	41·58	42·05
1360	+ 3	4551	6·92 K 0	21	19	31·000	+301·11	− 0·14	+ 0·21	+ 4	7	53·97	+1532·6	+13·8	− 0·7	8		38·98	
1361	+19	4691	4·27 K 0	21	19	46·314	+276·72	+ 0·10	+ 0·72	+19	35	21·99	+1534·0	+12·6	+ 6·8	18	72	46·21	41·78
1362	−13	5923	5·54 A 5	21	21	27·613	+327·15	− 0·54	+ 0·60	−13	5	36·87	+1543·5	+14·8	+ 1·1	7		40·90	
1363	− 4	5446	5·69 K 0	21	22	40·554	+312·91	− 0·30	− 0·12	− 3	46	19·28	+1550·3	+14·1	− 7·1	7	10	38·91	38·30
1364	+18	4794	6·06 A 3	21	24	7·144	+278·13	+ 0·11	+ 0·54	+19	9	28·68	+1558·3	+12·4	+ 1·4	13		40·32	
1365	+ 7	4696	6·66 M a	21	25	56·889	+295·67	− 0·07	+ 0·04	+ 7	58	37·82	+1568·2	+13·1	− 3·2	13	16	42·35	41·69
1366	−19	6107	6·54 F 2	21	27	11·343	+336·38	− 0·72	+ 0·22	−19	22	0·66	+1575·0	+14·8	− 4·3	6	7	38·95	39·50
1367	+69	1173	3·33 B 1	21	28	1·298	+ 77·08	− 1·81	+ 0·21	+70	20	27·85	+1579·5	+ 3·2	+ 1·4	9	10	46·12	46·17
1368	+34	4436	7·17 A 0	21	28	1·309	+249·19	+ 0·31	− 0·12	+35	15	8·76	+1579·5	+10·8	− 1·6	9		41·31	
1369	− 6	5770	3·07 G 0	21	28	55·642	+315·63	− 0·35	+ 0·12	− 5	47	31·84	+1584·4	+13·8	− 0·4	4	12	49·18	45·01
1370	−25	15479	6·42 A 5	21	29	40·579	+345·01	− 0·91	+ 0·49	−24	48	43·52	+1588·3	+15·0	+ 1·9	5	8	43·72	45·09
1371	+22	4431	6·37 F 8	21	32	16·782	+274·02	+ 0·18	+ 0·07	+22	31	55·25	+1602·1	+11·6	− 4·0	10	11	39·00	38·80
1372	+49	3562	7·00 B 9	21	34	23·433	+211·90	+ 0·35	+ 0·24	+50	16	37·37	+1613·2	+ 8·8	+ 2·4	7		39·93	
1373	+11	4613	7·20 A 0	21	34	40·761	+291·23	0·00	+ 0·05	+11	29	38·83	+1614·7	+12·2	+ 0·3	8		40·03	
1374	− 8	5701	4·78 A 5	21	35	5·434	+318·54	− 0·40	+ 0·74	− 8	4	45·80	+1616·8	+13·4	− 2·2	18	50	47·97	43·08
1375	+61	2169	4·87 B2p	21	36	34·644	+161·02	− 0·08	− 0·05	+61	51	21·49	+1624·4	+ 6·6	− 0·1	10	14	40·88	41·97
1376	−17	6340	3·80 F0p	21	37	19·208	+330·98	− 0·64	+ 1·31	−16	53	20·97	+1628·2	+13·8	− 2·2	7	8	39·07	39·91
1377	+59	2409	6·95 K 0	21	39	3·748	+176·34	+ 0·12	+ 0·82	+59	31	28·04	+1637·1	+ 7·0	+ 2·7	7		38·50	
1378	+ 0	4770	5·80 K 5	21	39	37·131	+305·91	− 0·19	− 0·03	+ 1	03	23·65	+1639·8	+12·4	− 0·4	7	8	38·82	39·20
1379	+45	3637	6·47 M b	21	40	13·462	+229·35	+ 0·42	+ 0·03	+45	32	13·32	+1642·9	+ 9·2	− 1·3	7	8	40·65	41·65
1380	+ 6	4889	6·74 K 0	21	41	10·980	+297·58	− 0·06	− 0·20	+ 7	17	59·23	+1647·7	+12·0	− 5·7	6	7	39·97	40·09
1381	+ 9	4891	2·54 K 0	21	41	43·752	+294·44	− 0·02	+ 0·18	+ 9	38	41·25	+1650·5	+11·8	+ 0·5	19	57	46·42	42·03
1382	+35	4626	6·60 K 0	21	43	37·034	+253·65	+ 0·38	+ 0·75	+35	37	32·94	+1659·7	+10·0	+ 1·7	9		43·09	
1383	− 2	5631	7·16 M b	21	43	56·463	+310·52	− 0·26	+ 0·13	− 2	26	41·29	+1661·4	+12·3	+ 2·4	6	7	41·93	41·48
1384	−16	5943	2·98 A 5	21	44	16·831	+329·21	− 0·63	+ 1·81	−16	21	15·68	+1662·9	+13·1	−29·3	11	27	42·58	40·86
1385	+16	4598	6·24 F 0	21	44	41·873	+284·64	+ 0·12	+ 0·62	+16	57	43·31	+1665·0	+11·2	− 1·4	6	8	38·61	39·04
1386	−27	15639	7·15 A 0	21	47	1·065	+345·69	− 1·03	+ 0·21	−27	38	14·04	+1676·2	+13·4	− 1·3	5	4	38·17	37·26
1387	+40	4648	6·49 A 0	21	47	37·830	+244·10	+ 0·45	− 0·07	+40	54	53·91	+1679·1	+ 9·4	− 0·5	9		39·91	
1388	−23	17135	6·85 F 8	21	48	33·802	+338·85	− 0·87	+ 2·53	−23	30	14·75	+1683·6	+13·0	− 8·4	8	8	38·76	39·28
1389	−14	6149	5·18 F 0	21	50	34·201	+324·87	− 0·56	+ 2·11	−13	47	17·15	+1693·1	+12·2	+ 1·4	17	43	46·16	41·44
1390	+54	2638	7·01 K 0	21	50	42·978	+207·37	+ 0·44	+ 0·29	+54	26	48·91	+1693·8	+ 7·8	+ 2·1	6	8	39·08	39·50
1391	+31	4577	7·10 K 5	21	52	42·650	+263·13	+ 0·38	− 0·11	+32	6	4·71	+1703·0	+ 9·8	+ 0·4	8	9	41·05	41·02
1392	+78	768	6·80 K 5	21	52	48·127	− 65·84	− 9·73	+ 0·30	+79	18	54·20	+1703·4	− 2·8	+ 2·2	13	14	40·96	40·80
1393	+20	5046	6·62 K 5	21	54	3·581	+280·54	+ 0·22	− 0·04	+21	0	4·88	+1709·2	+10·3	+ 1·9	9	8	41·21	40·28
1394	+11	4696	5·59 A 2	21	54	30·001	+292·74	+ 0·05	− 0·23	+11	50	17·54	+1711·2	+10·7	− 1·0	7	9	37·67	37·59
1395	+65	1691	6·28 B 3	21	55	54·322	+153·25	− 0·16	+ 0·06	+65	55	1·80	+1717·6	+ 5·4	+ 0·4	12	14	45·23	45·06
1396	+ 3	4644	7·07 F 8	21	55	57·834	+303·07	− 0·11	− 1·73	+ 3	32	23·08	+1717·8	+11·0	−13·7	8		39·18	
1397	− 5	5674	6·42 K 0	21	56	18·532	+312·87	− 0·30	− 0·04	− 4	36	31·41	+1719·4	+11·4	−25·4	11		41·78	
1398	−18	6056	6·38 G 5	21	59	26·747	+329·31	− 0·68	+ 0·80	−18	8	38·96	+1733·3	+11·6	− 5·5	9		37·37	
1399	+ 9	4975	6·98 K 0	22	2	3·290	+295·73	+ 0·03	− 0·40	+ 9	59	50·54	+1744·6	+10·2	− 1·0	8		39·05	
1400	− 1	4242	5·23 A 3	22	2	13·137	+308·64	− 0·21	− 0·14	− 1	8	56·61	+1745·4	+10·6	− 4·8	5	7	38·37	39·22

Position 1950 + T = Position 1950 + T (1st Term) + T^2 (2nd Term) + T′ (P.M.). T in centuries from 1950·0, T′ in centuries from epoch

*1352 F8 + A3

No.	BD or CD No.		M + Sp.		R.A. 1950			Precession 1st Term	Precession 2nd Term	P.M.	Dec. 1950			Precession 1st Term	Precession 2nd Term	P.M.	No. Obs.		Epoch 1900+	
	°				h	m	s	s	s	s	°	′	″	″	″	″				
1401	− 1	4246	3·19	G 0	22	3	12·926	+307·97	− 0·20	+ 0·10	− 0	33	48·93	+1749·6	+10·6	− 0·4	18	51	47·19	42·27
1402	+28	4284	5·58	A 0	22	3	18·508	+271·64	+ 0·38	+ 0·16	+28	43	13·15	+1750·1	+ 9·3	− 1·0	6		38·43	
1403	−22	5833	6·89	G 5	22	4	28·122	+334·04	− 0·82	+ 0·10	−22	29	7·75	+1755·0	+11·4	+ 2·1	7		42·33	
1404	+17	4693	6·43	M a	22	5	6·311	+286·76	+ 0·19	+ 0·14	+17	45	22·62	+1757·7	+ 9·7	− 3·9	7		39·24	
1405	+45	3813	6·52	G 5	22	6	39·435	+242·80	+ 0·60	− 0·28	+45	29	45·10	+1764·1	+ 8·0	+ 3·1	9	10	43·10	43·77
1406	+ 5	4961	3·70	A 2	22	7	40·550	+300·77	− 0·04	+ 1·81	+ 5	57	3·39	+1768·4	+10·0	+ 3·7	9	63	47·18	41·23
1407	−12	6196	5·40	B 5	22	7	57·155	+320·45	− 0·48	+ 0·19	−11	48	42·15	+1769·4	+10·6	+ 1·2	6		42·91	
1408	+57	2475	3·62	K 0	22	9	6·934	+208·03	+ 0·60	+ 0·14	+57	57	15·77	+1774·2	+ 6·7	+ 0·8	7		40·95	
1409	−26	16033	6·16	A 2	22	10	8·667	+338·15	− 0·98	− 0·17	−26	34	30·22	+1778·4	+11·0	− 3·2	7	7	43·60	43·46
1410	−16	6046	6·60	G 5	22	11	55·891	+324·80	− 0·60	− 0·08	−16	3	41·19	+1785·6	+10·4	−35·2	8	7	39·21	39·42
1411	+ 3	4687	7·06	K 0	22	12	15·323	+303·05	− 0·08	− 0·02	+ 4	1	59·82	+1786·9	+ 9·6	+ 2·1	7		38·08	
1412	+21	4719	6·69	K 0	22	12	27·104	+282·58	+ 0·30	− 0·03	+22	16	28·41	+1787·6	+ 9·0	− 0·4	7	8	39·53	39·07
1413	+42	4333	5·70	A 0	22	12	38·028	+251·65	+ 0·63	+ 0·46	+42	42	18·33	+1788·3	+ 8·0	− 2·0	7	7	38·81	39·54
1414	− 8	5845	4·32	K 0	22	14	11·750	+315·73	− 0·36	+ 0·78	− 8	1	58·72	+1794·4	+ 9·9	− 1·9	3	19	44·84	39·55
1415	− 6	5960	5·80	G 5	22	14	29·923	+313·19	− 0·30	0·00	− 5	38	15·38	+1795·6	+ 9·8	+ 2·5	7	10	38·64	41·08
1416	+12	4797	6·94	G 0	22	14	44·771	+294·03	+ 0·11	+ 5·77	+12	38	48·21	+1796·6	+ 9·1	+ 9·9	6		43·94	
1417	+62	2059	5·99	K 5	22	16	34·516	+195·13	+ 0·56	+ 0·64	+62	33	11·93	+1803·6	+ 5·8	+ 1·8	10	13	41·29	42·60
1418	+37	4537	6·11	F 0	22	16	44·335	+262·65	+ 0·58	+ 0·46	+37	31	2·35	+1804·3	+ 8·0	+ 4·5	7		40·94	
1419	+85	383	5·38	A 0	22	17	33·125	−490·08	−77·87	+ 5·07	+85	51	26·52	+1807·3	−15·8	+ 4·9	80	71	42·64	43·55
1420	+56	2755	6·54	B 8	22	18	15·770	+220·08	+ 0·74	+ 0·04	+56	39	58·08	+1810·0	+ 6·5	+ 1·0	5	6	43·09	43·10
1421	+30	4685	7·65	K 0	22	18	45·147	+272·93	+ 0·48	− 0·11	+31	3	28·58	+1811·8	+ 8·1	− 2·6	6	7	40·46	41·36
1422	− 2	5741	3·97	A 0	22	19	4·381	+308·96	− 0·20	+ 0·85	− 1	38	23·54	+1813·1	+ 9·2	+ 1·3	4	6	44·30	42·54
1423	+51	3358	4·58	K 0	22	21	35·337	+236·18	+ 0·80	− 0·19	+51	58	41·83	+1822·3	+ 6·8	−18·5	6		44·73	
1424	+50	3706	6·87	M a	22	23	3·008	+239·59	+ 0·81	+ 0·54	+51	0	5·03	+1827·6	+ 6·8	+ 3·0	6		46·11	
1425	+17	4746	6·40	K 0	22	23	15·764	+289·34	+ 0·25	+ 0·13	+18	11	21·17	+1828·3	+ 8·2	+ 3·9	4	6	43·98	44·92
1426	+ 8	4874	5·82	K 2	22	26	38·148	+299·07	+ 0·06	+ 0·36	+ 8	52	23·50	+1840·2	+ 8·2	− 1·5	8		38·15	
1427	+26	4439	5·96	K 2	22	26	49·412	+280·98	+ 0·43	+ 0·15	+26	30	25·06	+1840·9	+ 7·7	− 0·5	7	7	38·82	38·12
1428	−11	5850	4·89	A 0	22	28	0·118	+317·41	− 0·42	0·00	−10	56	3·90	+1845·0	+ 8·6	− 2·7	7	20	45·29	41·91
1429	− 3	5460	6·29	K 0	22	28	43·328	+310·20	− 0·22	− 0·15	− 3	10	5·07	+1847·4	+ 8·4	− 3·1	6		40·62	
1430	−11	5855	6·39	F 0	22	29	2·276	+317·52	− 0·43	+ 0·47	−11	9	44·94	+1848·5	+ 8·6	− 4·2	5	6	40·43	40·18
1431	+39	4871	5·80	A 3	22	30	13·469	+265·24	+ 0·70	+ 0·03	+39	31	19·27	+1852·4	+ 7·0	− 0·3	5	6	38·01	37·66
1432	− 0	4384	4·13	B 8	22	32	47·178	+307·65	− 0·14	+ 0·60	− 0	22	32·67	+1860·9	+ 8·0	− 5·0	16	57	47·97	42·83
1433	−18	6154	6·81	K 5	22	33	7·420	+323·13	− 0·62	− 0·23	−17	43	8·34	+1862·0	+ 8·3	− 3·9	4	6	40·06	39·30
1434	+49	3903	6·20	B 3	22	33	48·391	+249·23	+ 0·90	+ 0·03	+49	48	41·40	+1864·2	+ 6·3	+ 0·8	7		40·23	
1435	+23	4576	6·93	A 3	22	35	10·232	+286·07	+ 0·40	− 0·24	+23	44	29·38	+1868·5	+ 7·2	− 0·9	6	7	37·81	37·53
1436	− 8	5912	6·35	G 0	22	35	44·708	+314·21	− 0·34	+ 0·47	− 8	9	28·34	+1870·3	+ 7·8	0·0	9		38·27	
1437	+13	4971	5·81	G 5	22	38	23·685	+295·46	+ 0·22	+ 1·81	+14	17	7·81	+1878·6	+ 7·1	+14·5	6		41·12	
1438	+10	4797	3·61	B 8	22	38	57·982	+298·69	+ 0·13	+ 0·53	+10	34	11·21	+1880·2	+ 7·2	− 0·7	15	69	47·72	41·93
1439	+30	4771	6·48	K 5	22	39	10·878	+279·92	+ 0·58	+ 0·46	+30	42	15·01	+1881·0	+ 6·7	0·0	6	6	41·59	42·76
1440	+ 4	4896	7·30	K 2	22	40	21·008	+303·58	0·00	+ 0·16	+ 4	42	22·42	+1884·4	+ 7·2	+ 0·9	6		42·50	
1441	+29	4741	3·10	G 0	22	40	39·252	+281·20	+ 0·56	+ 0·09	+29	57	33·89	+1885·4	+ 6·6	− 2·2	6	7	41·00	41·26
1442	+18	5046	6·45	K 0	22	43	2·062	+292·08	+ 0·33	− 0·24	+19	6	7·89	+1892·3	+ 6·6	+ 6·3	11	12	41·00	41·16
1443	+ 6	5060	6·84	F 2	22	43	57·408	+301·74	+ 0·07	+ 0·33	+ 7	19	9·15	+1894·9	+ 6·8	+ 0·5	8		38·83	
1444	+22	4709	4·14	K 0	22	44	7·137	+288·61	+ 0·44	+ 0·39	+23	18	7·18	+1895·4	+ 6·4	− 0·6	9	10	40·26	39·82
1445	−20	6486	5·43	G 5	22	44	52·195	+322·88	− 0·68	− 0·73	−19	52	26·18	+1897·6	+ 7·2	−19·8	7		38·98	
1446	− 2	5826	7·58	K 2	22	44	55·285	+308·87	− 0·16	+ 0·03	− 2	3	10·18	+1897·6	+ 6·8	+ 0·3	9		41·27	
1447	−14	6346	5·70	B 9	22	45	3·535	+318·28	− 0·50	+ 0·19	−14	19	13·73	+1898·0	+ 7·0	− 0·6	6	8	40·36	39·63
1448	−26	16324	6·48	G 5	22	45	11·706	+328·39	− 0·90	+ 0·82	−26	10	28·70	+1898·4	+ 7·3	−10·8	8		43·30	
1449	+82	703	4·97	K 0	22	47	43·988	− 24·80	−13·24	+ 1·25	+82	53	18·40	+1905·5	− 1·0	+ 5·3	12		42·67	
1450	+65	1814	3·68	K 0	22	47	53·656	+214·74	+ 1·19	− 1·13	+65	56	14·57	+1905·9	+ 4·4	−11·8	15	17	44·52	44·89

Position 1950 + T = Position 1950 + T (1st Term) + T^2 (2nd Term) + T′ (P.M.). T in centuries from 1950·0, T′ in centuries from epoch.

No.	BD or CD No.	M + Sp.	R.A. 1950	Precession 1st Term	Precession 2nd Term	P.M.	Dec. 1950	Precession 1st Term	Precession 2nd Term	P.M.	No. Obs	Epoch 1900+
	°		h m s	s	s	s	° ′ ″	″	″	″		
1451	+25 4828	6·71 A 3	22 49 2·790	+287·36	+ 0·52	− 0·09	+26 7 31·16	+1908·9	+ 6·0	+ 0·8	8	38·56
1452	− 8 5968	3·84 M a	22 50 0·382	+312·86	− 0·30	+ 0·05	− 7 50 46·63	+1911·5	+ 6·4	+ 4·0	10 41	46·68 41·46
1453	+67 1475	6·94 F 2	22 50 55·838	+210·52	+ 1·22	+ 1·39	+67 43 23·31	+1914·0	+ 4·1	+ 7·2	12 13	43·77 44·03
1454	−16 6173	3·51 A 2	22 51 59·885	+318·59	− 0·53	− 0·29	−16 5 13·36	+1916·7	+ 6·4	− 2·0	8 9	43·44 43·81
1455	−17 6619	5·66 K 0	22 52 6·957	+318·91	− 0·55	− 1·57	−16 32 13·70	+1917·0	+ 6·4	− 8·6	4 6	40·86 40·03
1456	+36 4956	6·00 F 2	22 52 42·709	+278·39	+ 0·79	+ 0·70	+36 48 35·02	+1918·5	+ 5·5	+ 1·5	9 8	39·82 39·83
1457	+55 2850	7·06 B 9	22 54 4·915	+250·74	+ 1·28	+ 0·09	+56 10 59·12	+1921·9	+ 4·8	+ 0·5	6	39·64
1458	+11 4904	6·46 A 3	22 54 21·321	+299·59	+ 0·20	+ 0·39	+11 34 51·38	+1922·6	+ 5·8	− 0·6	8	39·78
1459	+83 640	4·96 K 5	22 54 52·972	− 53·78	−18·66	+ 5·84	+84 4 43·51	+1923·9	− 1·6	+ 3·3	67 69	45·11 44·89
1460	−30 19370	1·29 A 3	22 54 53·203	+328·85	− 1·02	+ 2·58	−29 53 13·63	+1923·9	+ 6·3	−15·9	2	39·30
1461	+ 3 4799	6·43 K 2	22 54 59·930	+305·02	0·00	+ 0·42	+ 3 32 31·50	+1924·2	+ 5·8	+ 4·3	8 7	40·30 40·37
1462	+19 5036	5·59 G 0	22 55 0·173	+293·35	+ 0·41	+ 1·42	+20 30 0·22	+1924·2	+ 5·6	+ 5·9	7	38·70
1463	+51 3514	6·41 K 2	22 57 0·012	+260·25	+ 1·23	− 0·37	+52 23 8·72	+1929·0	+ 4·7	+ 2·8	6 7	38·16 38·27
1464	− 0 4443	6·40 K 0	22 58 4·000	+307·38	− 0·08	+ 0·24	− 0 4 59·12	+1931·5	+ 5·6	+ 1·9	8 7	40·19 40·38
1465	− 7 5910	6·40 K 2	22 58 47·784	+311·86	− 0·26	− 0·14	− 7 19 47·58	+1933·2	+ 5·6	− 0·6	7	41·96
1466	+41 4664	3·63 *	22 59 36·829	+275·93	+ 0·98	+ 0·18	+42 3 24·62	+1935·1	+ 4·8	+ 0·2	8 9	40·61 40·43
1467	−21 6354	6·19 G 5	23 0 4·229	+320·69	− 0·68	− 0·43	−21 8 16·89	+1936·1	+ 5·6	−11·5	7 6	43·34 43·93
1468	+62 2160	7·00 K 0	23 0 38·531	+239·96	+ 1·54	+ 0·39	+63 4 16·98	+1937·4	+ 4·1	+ 0·9	7 9	44·42 45·23
1469	+27 4480	2·61 M a	23 1 20·667	+289·48	+ 0·62	+ 1·42	+27 48 39·89	+1938·9	+ 5·0	+14·3	6 7	43·86 44·28
1470	+14 4926	2·57 A 0	23 2 16·051	+298·44	+ 0·30	+ 0·42	+14 56 9·07	+1941·0	+ 5·0	− 3·6	6 48	46·28 40·86
1471	+34 4847	6·54 K 0	23 4 42·092	+284·67	+ 0·83	+ 0·42	+35 21 56·04	+1946·2	+ 4·6	0·0	6	39·67
1472	+19 5060	6·74 K 0	23 4 57·611	+295·56	+ 0·44	− 0·09	+20 18 40·70	+1946·7	+ 4·7	− 3·3	7	43·89
1473	+29 4862	7·25 B 9	23 5 15·372	+289·23	+ 0·68	− 0·21	+29 47 1·17	+1947·3	+ 4·6	− 0·4	8 7	44·04 44·77
1474	+45 4149	5·56 K 5	23 5 21·656	+274·52	+ 1·14	− 0·16	+46 7 0·81	+1947·6	+ 4·3	− 3·0	5 7	38·45 38·73
1475	+ 7 4981	5·41 M b	23 6 59·924	+302·80	+ 0·16	− 0·01	+ 8 24 20·66	+1950·8	+ 4·6	+ 0·6	8 9	38·59 38·64
1476	+42 4592	5·85 F 5	23 8 8·399	+279·10	+ 1·08	− 1·80	+43 16 33·08	+1953·1	+ 4·2	−18·8	7 9	38·27 38·85
1477	− 6 6170	4·40 M a	23 11 43·970	+310·42	− 0·20	+ 0·24	− 6 19 6·51	+1960·0	+ 4·3	−19·0	12 37	44·36 41·22
1478	−11 6032	6·35 K 5	23 12 3·840	+312·70	− 0·33	− 0·05	−10 57 39·54	+1960·6	+ 4·3	− 3·0	5 6	43·81 42·67
1479	+24 4737	6·74 K 0	23 12 55·590	+294·39	+ 0·60	0·00	+25 23 57·12	+1962·1	+ 4·0	+ 1·7	8	44·95
1480	− 4 5852	5·55 A 2	23 12 59·695	+309·12	− 0·14	− 0·12	− 3 46 8·87	+1962·3	+ 4·2	+ 0·2	5 7	49·32 45·63
1481	+ 2 4648	3·85 K 0	23 14 34·157	+305·95	+ 0·04	+ 5·06	+ 3 0 31·02	+1965·0	+ 3·9	+ 2·4	16 55	46·73 42·32
1482	−18 6283	6·08 K 0	23 16 46·317	+315·64	− 0·54	− 0·09	−18 20 58·12	+1968·7	+ 3·9	+ 2·2	6 7	39·34 38·84
1483	+ 4 4997	5·18 K 0	23 17 47·614	+305·14	+ 0·10	+ 0·51	+ 5 6 29·89	+1970·4	+ 3·6	− 5·8	9 10	38·43 38·36
1484	+37 4817	5·75 F 5	23 18 27·993	+288·58	+ 0·98	+ 1·03	+37 54 33·19	+1971·4	+ 3·4	− 6·6	12	41·41
1485	+59 2710	5·93 K 5	23 20 18·082	+267·67	+ 1·87	+ 0·05	+59 51 32·85	+1974·3	+ 3·0	− 0·2	16 19	41·75 41·32
1486	+11 4993	5·28 K 0	23 20 33·108	+302·44	+ 0·29	+ 0·15	+12 2 22·36	+1974·6	+ 3·4	− 1·4	9 10	38·30 38·16
1487	−21 6420	4·52 K 5	23 23 25·355	+315·44	− 0·60	− 0·39	−20 54 58·03	+1978·8	+ 3·2	− 5·6	6	40·50
1488	+ 0 4998	4·94 A2p	23 24 22·069	+306·97	+ 0·02	+ 0·56	+ 0 58 54·22	+1980·1	+ 3·0	− 9·0	17 54	47·12 43·17
1489	−12 6496	6·48 G 0	23 25 29·067	+311·49	− 0·32	+ 0·66	−11 43 29·54	+1981·6	+ 3·0	− 1·9	6	42·96
1490	−26 16654	6·89 A 3	23 25 46·993	+316·89	− 0·76	− 0·13	−25 41 44·82	+1981·9	+ 3·0	− 0·5	6	47·75
1491	+15 4830	6·98 A 2	23 26 31·084	+301·85	+ 0·40	+ 0·01	+15 44 13·29	+1982·9	+ 2·8	+ 0·9	6	44·12
1492	− 1 4443	7·10 G 0	23 26 56·442	+307·77	− 0·03	− 0·15	− 1 18 40·50	+1983·4	+ 2·8	− 2·8	7	47·19
1493	+86 344	5·62 F 0	23 27 32·901	− 56·08	−38·84	+10·19	+87 01 54·17	+1984·2	− 1·0	+ 2·0	73 61	38·01 38·07
1494	+27 4566	6·68 K 0	23 29 0·960	+297·60	+ 0·76	+ 0·10	+28 23 24·91	+1986·0	+ 2·5	− 1·5	6 7	45·32 45·54
1495	+ 6 5168	6·84 F 5	23 29 40·043	+305·22	+ 0·18	− 0·19	+ 6 48 33·78	+1986·7	+ 2·5	− 4·7	5 6	47·00 47·12
1496	+77 909	7·08 A 0	23 29 44·218	+227·69	+ 3·25	+ 1·28	+77 32 36·26	+1986·8	+ 1·8	+ 1·5	11 10	45·98 46·24
1497	+52 3469	7·02 K 0	23 30 12·449	+284·00	+ 1·70	+ 0·04	+53 24 37·36	+1987·4	+ 2·2	+ 0·4	7	47·66
1498	+21 4952	5·51 M b	23 30 57·612	+300·43	+ 0·59	+ 0·05	+22 13 21·53	+1988·1	+ 2·4	− 1·8	6	44·31
1499	+11 5026	7·70 A 3	23 32 38·862	+303·83	+ 0·34	− 0·09	+12 23 10·28	+1990·0	+ 2·2	− 5·4	6 7	45·12 43·79
1500	+66 1619	7·40 K 0	23 32 53·441	+269·80	+ 2·70	+ 0·56	+67 12 54·80	+1990·3	− 1·9	+ 0·9	10	42·54

Position 1950 + T = Position 1950 + T (1st Term) + T^2 (2nd Term) + T′ (P.M.). T in centuries from 1950·0, T′ in centuries from epoch.

*1466 B5 + A2p

No.	BD or CD No.	M + Sp.	R.A. 1950	Precession 1st Term	Precession 2nd Term	P.M.	Dec. 1950	Precession 1st Term	Precession 2nd Term	P.M.	No. Obs.	Epoch 1900+	
	°		h m s	s	s	s	° ′ ″	″	″	″			
1501	+ 1 4744	5·65 F 5	23 33 50·190	+306·84	+ 0·06	− 0·73	+ 1 49 27·49	+1991·2	+ 2·1	+ 6·2	7	40·74	
1502	+43 4508	5·86 B 9	23 35 4·922	+293·25	+ 1·34	+ 0·09	+44 9 8·51	+1992·5	+ 1·9	− 0·9	6	38·20	
1503	−15 6464	6·66 K 0	23 35 27·083	+311·26	− 0·40	+ 0·58	−15 22 13·30	+1992·8	+ 2·0	−10·5	6	45·60	
1504	+49 4180	5·32 B 9	23 36 42·413	+291·06	+ 1·62	− 0·21	+50 11 41·08	+1993·9	+ 1·7	− 0·4	6	41·36	
1505	+73 1047	6·08 G 5	23 37 9·408	+261·79	+ 3·62	− 0·17	+73 43 32·12	+1994·3	+ 1·5	+ 1·1	13 12	44·86	45·44
1506	+76 928	3·42 K 0	23 37 16·693	+248·39	+ 4·12	− 2·14	+77 21 10·76	+1994·4	+ 1·4	+15·7	13 13	45·59	44·71
1507	+ 4 5035	4·28 F 8	23 37 22·539	+306·09	+ 0·16	+ 2·50	+ 5 21 21·45	+1994·5	+ 1·8	−43·2	20 51	47·41	42·81
1508	+35 5074	6·30 F 5	23 38 10·197	+297·94	+ 1·06	+ 1·91	+36 26 35·47	+1995·2	+ 1·6	+ 2·6	7	43·95	
1509	− 8 6166	7·08 F 8	23 38 13·833	+309·15	− 0·18	+ 0·43	− 8 11 27·46	+1995·2	+ 1·7	− 4·0	6	44·60	
1510	− 3 5707	5·60 K 0	23 45 22·203	+307·78	− 0·03	+ 0·60	− 3 2 22·76	+2000·2	+ 1·0	+ 1·2	11 14	40·22	39·36
1511	−28 18353	4·64 A 0	23 46 19·405	+311·63	− 0·78	+ 0·81	−28 24 23·88	+2000·7	+ 1·0	−10·0	3 5	43·52	43·46
1512	−28 18361	7·03 F 8	23 46 44·252	+311·46	− 0·76	− 0·58	−28 7 53·26	+2000·9	+ 0·9	− 3·3	3	39·24	
1513	−22 6199	7·14 K 0	23 46 50·823	+310·41	− 0·56	− 0·03	−21 53 31·62	+2001·0	+ 0·9	+ 1·2	8	44·90	
1514	+63 2064	6·76 A 0	23 48 31·709	+293·80	+ 2·82	+ 0·04	+63 42 24·10	+2001·7	+ 0·6	+ 0·8	8 11	42·83	42·73
1515	+ 8 5127	6·11 M a	23 48 47·972	+306·29	+ 0·30	− 0·15	+ 9 2 10·88	+2001·9	+ 0·6	− 5·9	7	41·42	
1516	+ 2 4725	5·85 K 2	23 49 24·128	+307·04	+ 0·13	+ 0·06	+ 2 39 8·49	+2002·1	+ 0·6	− 1·1	6	42·83	
1517	+18 5231	5·23 M a	23 49 56·425	+305·33	+ 0·57	− 0·05	+18 50 33·52	+2002·4	+ 0·6	− 3·0	16 43	45·92	43·14
1518	+82 743	6·42 A 0	23 54 3·827	+279·51	+ 9·92	+ 2·58	+82 54 45·94	+2003·6	+ 0·1	+ 1·8	66 65	46·30	46·25
1519	+21 4999	6·30 M a	23 54 8·417	+305·93	+ 0·68	− 0·16	+22 22 11·54	+2003·7	+ 0·2	+ 0·4	8	39·86	
1520	−16 6394	6·40 K 2	23 55 46·876	+308·04	− 0·36	+ 0·54	−16 7 32·86	+2003·9	0·0	− 0·4	7 6	44·77	44·45
1521	+34 5039	6·71 A 3	23 55 47·895	+305·62	+ 1·10	+ 0·16	+34 44 4·40	+2004·0	0·0	+ 1·1	6	39·21	
1522	+54 3082	4·93 B 2	23 56 27·672	+304·33	+ 2·22	+ 0·09	+55 28 36·26	+2004·0	− 0·1	− 0·2	7 6	45·08	45·44
1523	+ 6 5227	4·03 F 5	23 56 44·422	+307·11	+ 0·26	+ 1·01	+ 6 35 12·15	+2004·1	− 0·1	−10·8	7 28	43·41	40·74
1524	− 6 6335	6·77 G 5	23 57 6·690	+307·51	− 0·08	+ 0·24	− 6 10 14·58	+2004·1	− 0·2	− 4·9	7	46·90	
1525	+ 7 5121	5·78 F 0	23 59 56·278	+307·32	+ 0·31	− 0·68	+ 8 12 27·90	+2004·3	− 0·4	− 4·6	8 9	39·14	38·88

Position 1950 + T = Position 1950 + T (1st Term) + T^2 (2nd Term) + T′ (P.M.). T in centuries from 1950·0, T′ in centuries from epoch.

CORRECTIONS TO G.C. AND FK3

EXPLANATION

The following pages give the observed corrections to the G.C. and FK3 for the epoch of observation. The number of each star as it appears in the catalogue has been added for convenience of identification.

Cat. No.	B. D. or C. D. No.		G. C. No.	FK3 No.	O – G. C. Δα	O – G. C. Δδ	O – FK3 Δα	O – FK3 Δδ
	°				s	″	s	″
1	−18	6417	23	905	+0·025	−0·15	+0·019	−0·31
2	+13	5201	26	.....	−0·015	−0·47	.....	.....
3	+26	4744	48	.....	+0·060	+0·02	.....	.....
4	+44	4550	54	.....	−0·017	+0·05	.....	.....
5	+39	5219	87	.....	−0·043	0·00	.....	.....
6	−23	4	98	1003	+0·002	+0·23	−0·003	+0·48
7	− 3	2	114	.....	+0·031	+0·24	.....	.....
8	+28	4	127	1	+0·010	+0·04	+0·010	−0·02
9	+58	3	147	2	−0·029	−0·09	+0·005	−0·15
10	+16	3	154	.....	−0·002	+0·02	.....	.....
11	+56	11	176	.....	−0·047	+0·44	.....	.....
12	−13	13	181	.....	+0·020	−1·28	.....	.....
13	+65	13	201	.....	−0·090	+0·34	.....	.....
14	+14	14	238	7	−0·006	−0·09	−0·010	−0·25
15	+ 3	26	304	.....	0·000	+0·44	.....	.....
16	+22	34	331	.....	+0·008	−0·19	.....	.....
17	+11	34	352	.....	+0·034	−0·06	.....	.....
18	+30	35	373	1006	−0·018	+0·11	−0·017	−0·13
19	+42	48	376	.....	+0·042	+0·07	.....	.....
20	− 8	38	378	.....	+0·034	−0·37	.....	.....
21	− 9	48	388	9	+0·004	+0·09	−0·005	−0·03
22	−18	41	403	1007	+0·021	+0·27	−0·021	+0·03
23	+52	61	488	.....	+0·006	0·00	.....	.....
24	−12	72	545	1011	−0·056	+0·65	−0·045	+0·51
25	+15	63	548	1012	+0·008	+0·21	−0·006	+0·10
26	+ 9	47	550	.....	+0·032	+0·14	.....	.....
27	−21	57	554	.....	−0·009	−0·30	.....	.....
28	+63	53	582	.....	+0·007	+0·15	.....	.....
29	+28	75	583	.....	+0·020	−0·46	.....	.....
30	− 4	54	584	13	+0·010	−0·34	−0·009	−0·50
31	+38	68	644	.....	−0·048	+0·14	.....	.....
32	−26	160	646	.....	+0·017	+0·47	.....	.....
33	− 4	62	696	.....	+0·018	−0·28	.....	.....
34	+14	76	728	.....	−0·004	+0·20	.....	.....
35	+ 2	80	744	.....	+0·007	−0·01	.....	.....
36	+81	13	760	.....	−0·191	−0·13	.....	.....
37	+48	192	770	.....	+0·007	−0·07	.....	.....
38	+20	85	778	.....	+0·008	−0·07	.....	.....
39	+55	139	792	21	−0·011	+0·22	+0·004	+0·14
40	−17	109	798	.....	+0·001	+0·34	.....	.....
41	− 5	101	804	.....	+0·048	−0·34	.....	.....
42	−18	115	865	22	−0·003	−0·22	−0·018	−0·23
43	+32	122	867	.....	−0·016	−0·07	.....	.....
44	+58	101	926	.....	−0·010	+0·26	.....	.....
45	+ 5	104	941	.....	+0·045	+0·28	.....	.....
46	+25	118	945	.....	−0·008	−0·19	.....	.....
47	−22	134	957	1018	−0·022	+0·74	−0·030	+0·90
48	+ 6	107	963	28	−0·006	−0·57	−0·005	−0·67
49	+16	76	968	1020	+0·028	−0·18	+0·012	−0·30
50	−14	145	984	.....	+0·015	−0·85	.....	.....

Cat. No.	B. D. or C. D. No.		G. C. No.	FK3 No.	O – G. C. Δα	O – G. C. Δδ	O – FK3 Δα	O – FK3 Δδ
	°				s	″	s	″
51	− 1	104	997	.....	−0·035	−0·69	.....	.....
52	+44	176	999	.....	−0·037	+0·37	.....	.....
53	− 1	114	1055	1022	−0·003	−0·10	−0·011	−0·09
54	+36	148	1060	.....	+0·016	+0·43	.....	.....
55	+13	127	1112	.....	−0·037	+0·17	.....	.....
56	+59	144	1117	32	−0·103	+0·35	−0·058	+0·33
57	+37	175	1122	33	−0·013	−0·13	−0·004	−0·18
58	+ 0	149	1146	.....	+0·011	−0·13	.....	.....
59	+20	131	1160	.....	−0·033	−0·07	.....	.....
60	− 6	176	1174	1024	+0·019	−0·89	+0·006	−1·01
61	68	64	1212	.....	−0·063	+0·31	.....	.....
62	−17	180	1236	1025	+0·037	−0·72	+0·001	−0·90
63	+ 7	153	1258	36	−0·011	−0·10	−0·013	−0·08
64	+51	220	1275	.....	−0·039	−0·43	.....	.....
65	+85	19	1288	Na	−0·109	−0·11	−0·112	−0·02
66	+28	174	1290	.....	−0·003	+0·01	.....	.....
67	−24	484	.....	1029	.....	.....	−0·019	+0·76
68	+31	185	1368	.....	+0·018	+0·46	.....	.....
69	−10	238	1369	.....	−0·025	−0·68	.....	.....
70	+19	185	1370	.....	−0·009	−0·51	.....	.....
71	+ 9	132	1381	.....	+0·029	−0·67	.....	.....
72	−10	240	1384	40	+0·010	−0·25	−0·007	−0·38
73	+34	198	1400	42	−0·024	+0·50	−0·025	+0·48
74	+45	291	1428	.....	−0·063	+0·20	.....	.....
75	+64	127	1434	.....	−0·033	−0·39	.....	.....
76	− 7	196	1463	.....	+0·044	−0·12	.....	.....
77	− 1	162	1501	.....	+0·032	−0·20	.....	.....
78	+38	229	1541	.....	−0·020	−0·52	.....	.....
79	+43	262	1550	.....	−0·005	−0·10	.....	.....
80	+ 2	185	1566	1034	+0·006	−0·26	0·000	−0·26
81	+57	260	1594	.....	−0·018	+0·44	.....	.....
82	−16	223	1605	.....	+0·005	−0·31	.....	.....
83	+21	178	1633	.....	−0·014	−0·68	.....	.....
84	+10	168	1634	.....	+0·032	−0·79	.....	.....
85	− 8	244	1695	47	+0·008	−0·11	−0·001	−0·12
86	− 3	195	1704	.....	0·000	+0·47	.....	.....
87	+59	248	1715	48	−0·014	+0·29	+0·005	+0·29
88	+26	239	1739	.....	−0·032	−0·15	.....	.....
89	+18	189	1740	1039	+0·024	+0·09	+0·017	−0·03
90	−13	262	1747	1041	−0·014	−0·21	−0·029	−0·19
91	−26	491	1810	.....	+0·018	+0·36	.....	.....
92	+14	231	1839	50	+0·022	+0·01	+0·026	−0·12
93	+34	265	1850	.....	+0·012	+0·30	.....	.....
94	+54	315	1873	.....	+0·017	−0·19	.....	.....
95	− 7	256	1888	.....	+0·007	−0·36	.....	.....
96	+13	240	1929	.....	+0·001	+0·05	.....	.....
97	+47	460	1938	.....	−0·030	−0·40	.....	.....
98	−16	270	1941	.....	−0·005	−0·89	.....	.....
99	+ 2	264	1980	.....	−0·077	+0·09	.....	.....
100	+77	58	1987	.....	−0·086	+0·32	.....	.....

Cat. No.	B. D. or C. D. No.		G. C. No.	FK3 No.	O – G. C. Δα	O – G. C. Δδ	O – FK3 Δα	O – FK3 Δδ
	°				s	″	s	″
101	+39	378	2025	.....	−0·023	+0·60	.....	.....
102	+ 4	293	2055	56	+0·017	−0·54	+0·021	−0·54
103	− 4	260	2093	1049	−0·031	−0·74	−0·030	−0·65
104	+44	354	2095	.....	−0·003	+0·71	.....	.....
105	−16	295	2123	59	−0·026	+0·34	−0·031	+0·38
106	+ 8	273	2139	60	−0·042	−0·54	−0·039	−0·66
107	+63	238	2161	.....	−0·027	+0·17	.....	.....
108	−14	335	2172	.....	+0·013	+0·41	.....	.....
109	−21	300	2184	.....	−0·004	−0·20	.....	.....
110	+16	203	2188	1050	+0·030	+0·26	+0·033	+0·22
111	+25	305	2207	.....	−0·022	−0·51	.....	.....
112	+74	84	2215	.....	−0·016	−0·29	.....	.....
113	+88	8	2243	Nb	−0·864	+0·02	−1·005	+0·13
114	−11	359	2249	62	+0·008	−0·46	+0·008	−0·57
115	+80	58	2270	.....	−0·183	+0·29	.....	.....
116	+62	320	2289	63	−0·019	−0·16	+0·050	−0·19
117	+ 2	290	2293	65	−0·008	−0·45	−0·006	−0·50
118	+ 8	292	2308	.....	−0·002	+0·49	.....	.....
119	+20	306	2309	66	−0·026	−0·04	−0·016	−0·15
120	+67	169	2313	.....	−0·070	−0·42	.....	.....
121	+30	310	2368	.....	−0·026	−0·50	.....	.....
122	+11	261	2395	.....	−0·004	−0·76	.....	.....
123	+59	376	2407	.....	−0·093	+0·56	.....	.....
124	+ 2	311	2416	.....	−0·002	−0·53	.....	.....
125	−21	358	2419	71	−0·004	+0 10	−0 014	−0·03
126	− 9	380	2426	.....	−0·027	−0·43	.....	.....
127	+53	439	2442	1054	−0·063	+0·29	−0·039	+0·22
128	−24	872	2470	.....	+0·001	+0·66	.....	.....
129	− 0	307	2474	.....	−0·018	−0·66	.....	.....
130	+41	395	2477	73	−0·079	+0·21	−0·083	0·00
131	−18	356	2496	.....	−0·013	−0·45	.....	.....
132	+22	306	2538	74	−0·035	−0·37	−0·020	−0·43
133	+37	486	2552	.....	−0·019	−0·29	.....	.....
134	−28	675	2561	.....	−0·017	+0·03	.....	.....
135	+34	381	2572	75	−0·048	−0·34	−0·027	−0·43
136	−13	400	2608	.....	−0·049	+0·66	.....	.....
137	+ 7	347	2619	.....	−0·015	−0·55	.....	.....
138	+82	51	2622	Nα	−0·171	−0·34	−0·305	+0·14
139	+29	371	2633	.....	−0·029	+0·21	.....	.....
140	+43	447	2645	.....	−0·021	−0·54	.....	.....
141	+ 8	345	2656	1058	+0·008	−0·17	+0·015	−0·19
142	+24	329	2706	1059	−0·005	−0·80	−0·011	−0·87
143	+33	395	2733	.....	−0·027	−0·49	.....	.....
144	+19	340	2767	81	0·000	−0·23	+0·002	−0·23
145	+12	315	2768	.....	+0·002	+0·08	.....	.....
146	+ 1	410	2770	1061	−0·017	−0·56	−0·001	−0·70
147	+46	552	2779	1063	−0·042	+0·20	−0·029	+0·03
148	− 1	322	2850	.....	+0·014	+0·10	.....	.....
149	−18	409	2853	1064	−0·040	−0·34	−0·043	−0·33
150	−26	857	2900	.....	+0·027	−0·46	.....	.....

Cat. No.	B. D. or C. D. No.		G. C. No.	FK3 No.	O – G. C. Δα	O – G. C. Δδ	O – FK3 Δα	O – FK3 Δδ
	°				s	″	s	″
151	−20	455	2941	.....	+0·033	−0·24	.....	
152	+29	417	2956	1068	0·000	−0·64	+0·010	−0·59
153	+ 7	388	2960	85	+0·003	−0·21	+0·014	−0·33
154	+ 8	385	2983	.....	+0·027	−0·60	.....	
155	+19	365	3003	.....	+0·001	−0·16	.....	
156	+35	497	3032	1070	+0·006	−0·35	+0·009	−0·37
157	+10	340	3085	.....	+0·018	+0·44	.....	
158	+51	599	3122	.....	+0·052	−0·09	.....	
159	− 8	489	3126	1074	+0·015	−0·72	+0·020	−0·63
160	+61	448	3169	.....	+0·003	−0·11	.....	
161	− 0	406	3192	91	+0·006	−0·11	+0·014	−0·20
162	−16	484	3211	.....	−0·031	−0·13	.....	
163	+58	504	3219	.....	−0·011	+0·39	.....	
164	+47	683	3258	.....	+0·032	−0·51	.....	
165	+80	86	3270	.....	−0·007	−0·42	.....	
166	+48	746	3277	93	+0·001	+0·26	+0·003	+0·15
167	+43	566	3278	1077	+0·012	−0·51	+0·017	−0·47
168	− 3	426	3283	.....	−0·010	+0·46	.....	
169	−26	996	3305	1078	−0·008	−0·40	+0·004	−0·68
170	+ 9	359	3309	98	−0·005	+0·13	+0·008	+0·17
171	+35	553	3335	.....	−0·017	−0·08	.....	
172	+69	179	3345	.....	−0·026	−0·32	.....	
173	−22	479	3348	.....	−0·048	+0·58	.....	
174	−13	530	3366	.....	−0·028	−0·31	.....	
175	+17	442	3369	.....	−0·025	+0·04	.....	
176	− 5	541	3493	.....	+0·046	−0·66	.....	
177	+14	492	3515	.....	+0·037	−0·38	.....	
178	+72	153	3527	.....	−0·104	−0·60	.....	
179	+ 7	450	3531	.....	0·000	−0·64	.....	
180	− 9	553	3539	104	+0·020	−0·13	+0·027	−0·08
181	+ 3	410	3547	.....	+0·009	+0·14	.....	
182	+20	480	3562	1081	+0·019	−0·31	+0·023	−0·43
183	+ 3	419	3643	107	+0·010	−0·43	+0·010	−0·43
184	−18	516	3645	1084	−0·045	+0·45	−0·050	+0·33
185	+52	654	3664	108	−0·038	−0·28	−0·013	−0·29
186	− 2	554	3730	.....	+0·019	+1·12	.....	
187	+40	673	3733	111	−0·044	−0·20	−0·033	−0·37
188	−14	604	3734	1087	−0·027	−0·71	+0·008	−0·98
189	+49	857	3740	112	−0·020	+0·15	−0·007	−0·04
190	+18	414	3742	.....	−0·028	+0·14	.....	
191	+28	499	3762	1088	−0·045	−0·51	−0·033	−0·70
192	+52	663	3781	.....	−0·030	−0·10	.....	
193	+31	553	3788	.....	+0·057	−0·30	.....	
194	+19	477	3805	114	+0·003	−0·13	+0·013	−0·21
195	+41	631	3810	.....	−0·054	−0·24	.....	
196	+47	779	3812	.....	−0·051	−0·08	.....	
197	+ 6	496	3827	.....	−0·054	0·00	.....	
198	+56	798	3870	.....	−0·011	−0·30	.....	
199	+38	690	3927	.....	−0·059	+0·19	.....	
200	+12	460	3941	.....	+0·021	−0·20	.....	

Cat. No.	B. D. or C. D. No.		G. C. No.	FK3 No.	O – G. C. Δα	O – G. C. Δδ	O – FK3 Δα	O – FK3 Δδ
	°				s	″	s	″
201	−19	651	3959	.....	−0·028	−0·65	.....	.....
202	+84	59	4030	Nβ	+0·045	−0·21	−0·183	−0·17
203	−26	1257	4031	.....	−0·058	−0·34	.....	.....
204	+64	391	4034	1096	−0·006	−0·01	+0·56	+0·07
205	+49	917	4041	120	+0·015	+0·53	+0·014	+0·51
206	+ 8	511	4070	121	+0·004	−0·41	+0·015	−0·60
207	− 4	586	4077	.....	−0·016	−0·37	.....	.....
208	+19	537	4117	.....	+0·009	+0·06	.....	.....
209	−11	667	4130	.....	+0·002	−0·10	.....	.....
210	+29	566	4131	.....	+0·022	+0·63	.....	.....
211	−23	1412	4167	.....	−0·060	+1·01	.....	.....
212	+12	486	4184	125	−0·031	+0·01	−0·026	−0·12
213	+34	674	4222	1098	−0·035	+0·07	−0·013	−0·12
214	+ 8	528	4231	.....	−0·022	−0·32	.....	.....
215	− 9	697	4244	127	+0·016	−0·23	+0·030	−0·19
216	−22	628	4258	1099	+0·007	−0·45	+0·028	−0·31
217	−17	699	4305	1100	−0·026	+0·28	−0·021	+0·20
218	+22	518	4307	.....	−0·013	−0·22	.....	.....
219	+ 0	616	4311	.....	−0·004	−0·46	.....	.....
220	+13	579	4346	.....	−0·017	−0·46	.....	.....
221	− 6	713	4347	.....	+0·005	−0·66	.....	.....
222	+40	813	4375	.....	+0·016	−0·21	.....	.....
223	+47	876	4427	131	+0·006	−0·51	+0·017	−0·59
224	−10	728	4450	135	−0·038	+0·03	−0·024	−0·10
225	+45	804	4459	.....	−0·028	+0·36	.....	.....
226	−10	729	4460	.....	+0·015	−0·23	.....	.....
227	+66	284	4463	.....	−0·101	0·00	.....	.....
228	+36	742	4464	.....	−0·040	−0·25	.....	.....
229	+27	556	4468	.....	−0·064	−0·15	.....	.....
230	+23	541	4541	139	−0·030	−0·46	−0·013	−0·46
231	−23	1565	4547	140	−0·021	+0·46	−0·005	+0·46
232	− 0	602	4584	.....	+0·019	−0·38	.....	.....
233	−21	703	4593	.....	−0·057	−0·42	.....	.....
234	+ 6	594	4662	.....	+0·016	−0·14	.....	.....
235	+57	752	4668	1105	−0·015	+0·19	+0·003	+0·24
236	+16	523	4677	1106	−0·020	−1·16	+0·001	−1·14
237	− 7	695	4683	1107	+0·010	−0·75	+0·046	−0·74
238	+31	666	4688	144	−0·014	−0·01	+0·005	−0·04
239	+86	51	4693	.....	−0·159	−0·01	.....	.....
240	+30	591	4720	.....	+0·034	−0·39	.....	.....
241	+ 2	628	4745	.....	+0·061	−0·42	.....	.....
242	+24	599	4757	.....	−0·053	+0·31	.....	.....
243	+39	895	4759	147	−0·075	+0·03	−0·054	+0·08
244	−13	781	4778	149	−0·066	−0·33	−0·051	−0·37
245	+13	621	4786	.....	−0·019	−0·82	.....	.....
246	+12	539	4805	150	+0·008	−0·02	+0·021	+0·09
247	+ 5	581	4862	151	−0·025	−0·30	0·000	−0·35
248	+73	210	4882	.....	+0·017	+0·17	.....	.....
249	+61	669	4898	.....	−0·008	−0·13	.....	.....
250	−13	806	4907	.....	+0·020	−0·70	.....	.....

Cat. No.	B. D. or C. D. No.		G. C. No.	FK3 No.	O – G. C. Δα	O – G. C. Δδ	O – FK3 Δα	O – FK3 Δδ
	°				s	″	s	″
251	+42	897	4958	.....	+0·012	−0·94	.....	.....
252	−22	754	4961	.....	+0·006	−0·31	.....	.....
253	+37	882	4973	.....	−0·034	−0·47	.....	.....
254	− 3	696	5013	.....	−0·001	+0·89	.....	.....
255	+ 5	601	5042	.....	−0·013	−0·82	.....	.....
256	− 7	764	5056	154	−0·023	0·00	−0·009	−0·38
257	−17	816	5062	.....	−0·012	−0·14	.....	.....
258	+48	1059	5067	.....	−0·018	−0·39	.....	.....
259	+53	750	5132	.....	−0·001	−0·24	.....	.....
260	+21	618	5189	.....	−0·050	−0·34	.....	.....
261	+83	104	5208	.....	−0·046	−0·28	.....	.....
262	+15	612	5226	159	0·000	+0·06	+0·013	−0·02
263	+14	682	5252	.....	+0·004	−0·85	.....	.....
264	−16	838	5255	1119	−0·051	−0·29	−0·067	−0·32
265	− 7	798	5267	.....	+0·017	+0·20	.....	.....
266	+85	63	5301	Nc	+0·042	−0·25	−0·036	−0·22
267	+17	712	5304	162		+0·38		+0·28
268	− 4	818	5327	1120	−0·004	−0·16	+0·008	−0·28
269	+57	800	5358	.....	−0·030	−0·22	.....	.....
270	+ 8	687	5378	.....	−0·010	+0·18	.....	.....
271	+ 1	753	5399	.....	+0·005	−0·65	.....	.....
272	+69	258	5401	1122	−0·023	−0·75	+0·023	−0·55
273	+18	640	5430	164	−0·004	+0·08	+0·022	−0·02
274	−21	878	5435	.....	−0·042	−0·64	.....	.....
275	+27	661	5447	.....	−0·020	−0·57	.....	.....
276	+15	639	5482	.....	−0·022	+0·27	.....	.....
277	+36	907	5515	.....	+0·012	−0·33	.....	.....
278	+16	629	5605	168	−0·043	+0·32	−0·019	+0·29
279	+ 0	798	5627	.....	−0·020	−0·29	.....	.....
280	− 2	963	5635	.....	+0·005	−0·54	.....	.....
281	+20	785	5644	.....	−0.005	−0·09	.....	.....
283	+11	639	5684	.....	+0·011	−0·33	.....	.....
284	+76	174	5711	.....	+0·119	−0·31	.....	.....
285	+22	739	5716	174	−0·052	−0·16	−0·024	−0·17
286	+43	1043	5719	.....	−0·038	−0·35	.....	.....
287	+49	1230	5726	1128	−0·026	−0·03	+0·003	−0·14
288	+32	827	5749	.....	−0·005	+0·35	.....	.....
289	− 8	929	5768	1131	+0·011	+0·25	+0·038	+0·23
290	−21	966	5794	.....	−0·037	+0·36	.....	.....
291	− 3	876	5796	176	−0·003	−0·04	+0·015	−0·08
292	+55	928	5817	.....	−0·035	+0·24	.....	.....
293	+29	741	5841	.....	−0·031	+0·19	.....	.....
294	−14	970	5882	.....	−0·049	−0·65	.....	.....
295	+61	739	5927	.....	+0·004	−0·10	.....	.....
296	+80	155	5962	.....	+0·083	−0·46	.....	.....
297	+ 2	810	5978	180	−0·020	−0·21	+0·007	−0·29
298	+ 7	755	5986	.....	−0·030	+0·19	.....	.....
299	−16	992	6012	.....	−0·015	−0·47	.....	.....
300	− 5	1091	6032	.....	−0·017	−0·36	.....	.....
301	+23	777	6044	.....	−0·057	−1·40	.....	.....

Cat. No.	B. D. or C. D. No.		G. C. No.	FK3 No.	O – G. C. Δα	O – G. C. Δδ	O – FK3 Δα	O – FK3 Δδ
	°				s	″	s	″
302	+37	1005	6064	.....	−0·002	−0·34	.....	.....
303	+ 1	872	6068	.....	−0·002	−0·55	.....	.....
304	+14	796	6072	.....	−0·016	+0·87	.....	.....
305	+43	1166	6123	183	−0·028	+0·17	−0·008	+0·12
306	+41	1044	6153	.....	−0·012	−0·07	.....	.....
307	+21	751	6158	184	−0·043	+0·10	−0·017	+0·04
308	+58	804	6193	.....	−0·055	−0·01	.....	.....
309	−24	2795	6195	.....	−0·037	−0·48	.....	.....
310	− 3	998	6206	.....	−0·044	−0·15	.....	.....
311	+33	953	6222	.....	−0·026	−0·30	.....	.....
312	−22	1000	6231	186	−0·012	−0·38	+0·002	−0·61
313	−12	1076	6268	.....	−0·002	−1·20	.....	.....
314	− 5	1162	6274	188	−0·040	−0·46	−0·010	−0·54
315	+19	853	6279	.....	+0·040	+0·16	.....	.....
316	+73	274	6288	.....	−0·013	−0·05	.....	.....
317	+ 9	743	6300	1142	−0·032	−0·13	+0·004	−0·20
318	+27	732	6301	1141	−0·007	+0·89	+0·015	+0·70
319	+46	970	6311	.....	−0·045	+0·26	.....	.....
320	+67	371	6356	.....	+0·079	−0·08	.....	.....
321	− 8	1059	6392	.....	−0·026	+0·37	.....	.....
322	− 8	1063	6410	194	−0·032	−0·47	−0·010	−0·44
323	+45	1077	6427	193	−0·042	+0·18	−0·024	+0·06
324	+85	74	6447	Nγ	+0·036	−0·05	−0·076	+0·13
325	− 7	1028	6480	195	−0·036	−0·58	−0·009	−0·45
326	+21	816	6506	.....	−0·008	−0·10	.....	.....
327	+ 2	916	6509	.....	−0·043	−0·32	.....	.....
328	−18	1051	6511	.....	−0·004	+0·52	.....	.....
329	+54	882	6527	.....	−0·024	−0·52	.....	.....
330	+10	758	6537	.....	+0·004	−0·37	.....	.....
331	+ 8	933	6574	.....	−0·030	−0·94	.....	.....
332	+70	351	6633	.....	−0·074	−0·09	.....	.....
333	+37	1175	6636	.....	−0·049	−0·10	.....	.....
334	+ 6	919	6668	201	−0·055	−0·03	−0·028	+0·03
335	+28	795	6681	202	0·000	−0·32	+0·032	−0·27
336	+17	928	6714	1148	−0·020	−0·29	+0·012	−0·46
337	−12	1169	6726	.....	−0·013	−0·48	.....	.....
338	−21	1174	6747	.....	−0·004	−1·00	.....	.....
339	− 0	960	6756	.....	+0·034	−0·44	.....	.....
340	+29	909	6772	.....	+0·003	+0·32	.....	.....
341	+85	78	6778	.....	−0·500	−0·25	.....	.....
342	+41	1206	6797	.....	+0·045	−0·06	.....	.....
343	− 0	983	6847	206	−0·009	−0·24	+0·016	−0·40
344	−17	1166	6875	207	−0·048	−0·09	−0·029	−0·02
345	+ 3	964	6896	.....	+0·015	−0·56	.....	.....
346	+64	536	6917	.....	−0·098	−0·09	.....	.....
347	− 1	969	6960	210	−0·040	−0·47	−0·014	−0·56
348	− 6	1255	6971	.....	−0·009	+0·51	.....	.....
349	+10	828	6975	.....	−0·005	−0·62	.....	.....
350	+21	908	6985	211	−0·034	+0·03	−0·003	+0·07
351	−27	2395	7025	1153	+0·008	+0·39	+0·004	+0·11

Cat. No.	B. D. or C. D. No.	G. C. No.	FK3 No.	O – G. C. Δα	O – G. C. Δδ	O – FK3 Δα	O – FK3 Δδ
	°			s	″	s	″
352	+24 909	7050	.....	−0·068	−0·88	.....	.....
353	−17 1199	7058	.....	−0·034	−0·67	.....	.....
354	+56 1050	7105	.....	−0·039	−0·68	.....	.....
355	−20 1171	7193	.....	−0·061	−1·24	.....	.....
356	+15 926	7224	.....	−0·091	−0·30	.....	.....
357	+ 9 954	7228	.....	+0·005	+0·59	.....	.....
358	+29 997	7232	.....	−0·099	−0·55	.....	.....
359	− 9 1235	7264	220		−0·15		−0·11
360	+85 80	7273	Nδ	−0·120	−0·29	−0·001	−0·24
361	−14 1251	7315	.....	−0·003	+0·08	.....	.....
362	+ 7 1055	7451	224	−0·024	−0·38	−0·007	−0·59
363	+11 975	7488	.....	−0·008	−0·10	.....	.....
364	−18 1247	7519	.....	−0·054	+0·05	.....	.....
365	+44 1328	7543	227	−0·016	−0·88	+0·009	−0·83
366	+ 0 1239	7556	1161	−0·003	−0·32	+0·023	−0·52
367	− 9 1285	7565	.....	−0·082	−0·48	.....	.....
368	+33 1209	7568	1162	−0·074	−0·44	−0·018	−0·82
369	+75 247	7606	.....	−0·003	−0·39	.....	.....
370	+22 1140	7610	.....	−0·022	+0·30	.....	.....
371	−25 2865	7623	.....	−0·033	−0·23	.....	.....
372	+ 9 1064	7635	.....	−0·041	−0·18	.....	.....
373	+42 1473	7641	.....	−0·073	−0·08	.....	.....
374	+51 1146	7663	.....	−0·068	−0·15	.....	.....
375	−14 1331	7742	.....	−0·009	−0·78	.....	.....
376	+26 1082	7753	.....	+0·020	−0·50	.....	.....
377	− 3 1297	7762	.....	+0·012	0·00	.....	.....
378	+14 1152	7772	232	−0·029	+0·27	+0·001	+0·12
379	−21 1353	7779	.....	−0·042	+1·08	.....	.....
380	+48 1352	7853	.....	−0·070	−0·64	.....	.....
381	+65 517	7856	233	−0·057	−0·12	−0·013	−0·30
382	+19 1253	7887	.....	−0·061	−0·12	.....	.....
383	+22 1241	7969	236	−0·035	−0·77	−0·009	−0·84
384	.....	7982	.....	+0·011	+0·14	.....	.....
385	+36 1388	7983	1167	+0·006	−0·41	+0·036	−0·61
386	− 6 1469	7986	.....		+0·14	.....	.....
387	+61 869	8016	.....	−0·125	−0·30	.....	.....
388	+ 1 1275	8017	.....	−0·029	−0·36	.....	.....
389	+12 1084	8033	1169	−0·050	−0·23	−0·029	−0·06
390	+23 1275	8039	.....	−0·036	+0·10	.....	.....
391	+59 959	8068	237	−0·076	−0·27	−0·022	−0·28
392	+14 1235	8073	.....	−0·010	+0·34	.....	.....
393	−16 1426	8080	.....	−0·047	−0·37	.....	.....
394	− 7 1373	8132	1170	−0·017	−0·63	−0·003	−0·59
395	+30 1211	8183	.....	−0·068	+0·13	.....	.....
396	+22 1304	8208	241	−0·026	−0·27	+0·002	−0·25
397	−17 1467	8223	243	−0·030	+0·90	−0·003	+1·00
398	+ 4 1236	8240	244	−0·030	−0·13	−0·010	−0·23
399	+ 8 1316	8248	.....	−0·014	+0·40	.....	.....
400	−11 1478	8265	1171	+0·004	+0·12	+0·014	+0·07
401	+ 70401	8293	.....	−0·017	+0·01	.....	.....

Cat. No.	B. D. or C. D. No.		G. C. No.	FK3 No.	O – G. C. Δα	O – G. C. Δδ	O – FK3 Δα	O – FK3 Δδ
	°				s	″	s	″
402	+42	1552	8300	1172	−0·011	−0·26	−0·012	−0·24
403	− 1	1242	8335	.....	−0·029	−0·11	.....	.....
404	− 4	1526	8378	246	−0·023	−0·31	+0·007	−0·28
405	+16	1159	8382	.....	−0·002	+0·02	.....	.....
406	+28	1138	8426	.....	−0·026	+0·08	.....	.....
407	−22	1429	8427	.....	−0·019	+1·44	.....	.....
408	+47	1310	8472	.....	−0·099	−0·25	.....	.....
409	+52	1097	8501	.....	−0·054	−0·68	.....	.....
410	+86	79	8505	.....	−0·125	−0·06	.....	.....
411	+82	177	8605	.....	+0·071	−0·04	.....	
412	− 5	1710	8609	.....	−0·041	−0·24	.....	.....
413	−18	1480	8614	.....	+0·021	+0·16	.....	.....
414	+16	1223	8633	251	−0·023	+0·02	+0·004	−0·04
415	+ 2	1315	8642	.....	−0·042	−0·26	.....	.....
416	+22	1416	8672	.....	−0·005	−0·36	.....	.....
417	+11	1273	8731	.....	−0·052	−0·68	.....	.....
418	+32	1378	8754	.....	−0·058	−0·48	.....	.....
419	+25	1406	8786	.....	−0·036	−0·44	.....	.....
420	−25	3546	8808	.....	+0·005	+0·68	.....	.....
421	+13	1396	8823	256	−0·037	−0·11	−0·002	−0·02
422	+57	1004	8826	.....	−0·093	+0·03	.....	.....
423	+ 8	1486	8856	1177	−0·047	−0·20	−0·018	−0·32
424	+48	1436	8858	1176	−0·035	+0·09	+0·001	+0·01
425	−20	1576	8884	.....	−0·037	−0·15	.....	.....
426	−14	1599	8922	.....	−0·059	−0·01	.....	.....
427	− 2	1776	8923	1179	−0·006	−0·60	+0·018	−0·75
428	+16	1298	8927	.....	−0·051	−0·06	.....	.....
429	+25	1469	8974	.....	−0·028	−0·80	.....	.....
430	+44	1551	9042	.....	−0·068	+0·19	.....	.....
431	−11	1681	9051	266	−0·030	−0·29	−0·008	−0·36
432	+10	1335	9100	.....	−0·006	−0·18	.....	.....
433	−16	1661	9107	.....	−0·042	−0·47	.....	.....
434	+38	1656	9151	.....	+0·002	+0·25	.....	.....
435	+ 3	1488	9175	.....	−0·021	−0·46	.....	.....
436	−28	3666	9188	268	−0·036	−0·03	−0·016	−0·20
437	− 8	1662	9226	1181	−0·020	+0·18	−0·008	+0·12
438	−25	3911	9253	.....	+0·009	−0·14	.....	.....
439	+24	1502	9263	1182	−0·036	−0·35	−0·002	−0·30
440	+20	1687	9313	269	−0·069	−0·22	−0·031	−0·25
441	−15	1625	9320	271	−0·008	−0·12	+0·014	−0·07
442	+60	1026	9322	.....	−0·027	−0·16	.....	.....
443	−21	1732	9351	.....	−0·053	+0·95	.....	.....
444	−11	1790	9389	.....	−0·059	−0·48	.....	.....
445	+34	1533	9405	.....	−0·018	+0·04	.....	.....
446	+ 7	1607	9409	1185	−0·015	+0·01	+0·014	−0·08
447	+16	1397	9421	.....	−0·029	−0·36	.....	.....
448	−26	3916	9443	273	−0·051	+0·18	−0·026	+0·14
449	+72	352	9489	.....	+0·030	−0·38	.....	.....
450	+27	1327	9493	.....	−0·045	+0·17	.....	.....
451	− 0	1634	9505	.....	+0·005	+0·36	.....	.....

Cat. No.	B. D. or C. D. No.		G. C. No.	FK3 No.	O – G. C. Δα	O – G. C. Δδ	O – FK3 Δα	O – FK3 Δδ
	°				s	″	s	″
452	− 0	1636	9518	1187	−0·043	−0·27	−0·015	−0·29
453	+47	1411	9525	.....	+0·089	−0·22	.....	.....
454	+51	1295	9526	.....	+0·006	+0·40	.....	.....
455	+12	1469	9592	.....	−0·001	+0·44	.....	.....
456	− 6	2032	9698	.....	−0·072	+0·48	.....	.....
457	+16	1443	9701	277	−0·024	+0·20	+0·022	−0·08
458	+ 2	1640	9739	.....	−0·018	+0·44	.....	.....
459	−16	1898	9758	.....	−0·045	+0·72	.....	.....
460	+87	51	9772	Nd	−0·112	−0·12	−0·322	−0·08
461	+37	1707	9796	.....	−0·053	+0·16	.....	.....
462	+20	1775	9808	.....	−0·009	−0·09	.....	.....
463	+82	201	9851	.....	−0·023	−0·26	.....	.....
464	+28	1385	9897	282	−0·043	−0·34	+0·001	−0·35
465	−13	2001	9905	1192	+0·026	−0·34	+0·002	−0·23
466	+ 8	1774	9947	285	−0·047	−0·27	−0·009	−0·36
467	−22	1874	9960	.....	−0·013	+0·90	.....	.....
468	+78	254	9972	.....	+0·061	−0·08	.....	.....
469	+ 9	1660	9974	.....	−0·043	−0·28	.....	.....
470	+28	1400	10015	.....	−0·049	+0·33	.....	.....
471	+12	1567	10024	1193	−0·006	+0·03	+0·022	−0·11
472	− 4	1979	10053	.....	−0·005	+0·86	.....	.....
473	+17	1596	10073	.....	−0·030	−0·24	.....	.....
474	+46	1286	10168	1195	−0·089	+0·23	−0·045	+0·10
475	− 7	2065	10192	.....	−0·006	+0·29	.....	.....
476	−19	1967	10208	1197	−0·075	−0·61	−0·016	−0·52
477	− 3	1979	10217	289	−0·017	−0·08	+0·017	−0·01
478	+14	1713	10225	.....	+0·004	+0·49	.....	.....
479	+33	1560	10230	.....	−0·010	+0·97	.....	.....
480	+54	1167	10234	.....	+0·005	−0·03	.....	.....
481	+ 5	1739	10277	291		−0·20		−0·38
482	+23	1780	10318	.....	−0·024	−0·63	.....	.....
483	+ 0	2054	10381	.....	−0·039	+0·28	.....	.....
484	+39	1998	10412	.....	−0·044	+0·03	.....	.....
485	+65	593	10420	.....	−0·047	+0·19	.....	.....
486	+63	733	10422	.....	−0·048	+0·37	.....	.....
487	+28	1463	10438	295	−0·032	−0·06	+0·009	−0·02
488	+18	1733	10456	1200	−0·032	+0·09	−0·001	+0·03
489	−22	2027	10501	.....	+0·020	+0·01	.....	.....
490	+ 5	1790	10509	.....	+0·023	+0·02	.....	.....
491	+26	1656	10546	.....	−0·035	+0·34	.....	.....
492	−24	6030	10562	1204	−0·029	−0·60	−0·008	−0·61
493	−10	2253	10606	.....	−0·051	+1·06	.....	.....
494	+ 2	1808	10622	1205	−0·052	0·00	−0·015	−0·03
495	−13	2267	10629	298		−0·66		−0·53
496	− 2	2322	10635	.....	−0·059	+1·04	.....	.....
497	+20	1946	10707	.....	−0·040	−0·44	.....	.....
498	+30	1612	10720	.....	−0·020	−0·36	.....	.....
499	+44	1693	10757	1209	−0·026	−0·21	−0·017	−0·23
500	−29	5236	10774	1210	−0·017	+1·23	−0·006	+0·99
501	+ 2	1833	10776	.....	−0·019	−0·33	.....	.....

Cat. No.	B. D. or C. D. No.		G. C. No.	FK3 No.	O – G. C. Δα	O – G. C. Δδ	O – FK3 Δα	O – FK3 Δδ
	°				s	″	s	″
502	+13	1811	10801	.....	−0·026	−0·93	.....	.....
503	−18	2118	10825	1212	−0·008	+0·36	+0·015	+0·50
504	+ 9	1843	10880	.....	−0·015	−0·20	.....	.....
505	− 5	2339	10900	1213	−0·025	+0·24	−0·012	+0·39
506	+13	1831	10959	.....	+0·073	−0·37	.....	.....
507	−25	5530	10963	.....	−0·027	+0·07	.....	.....
508	− 0	1903	10986	.....	−0·012	+0·47	.....	.....
509	−20	2395	11027	.....	−0·019	+0·79	.....	.....
510	+84	169	11031	Nε	−0·134	−0·39	−0·021	−0·26
511	−23	6828	11034	308	−0·052	+0·37	−0·033	+0·17
512	+35	1767	11073	1214	−0·012	−0·66	+0·019	−0·72
513	+53	1221	11087	.....	−0·037	−0·38	.....	.....
514	+25	1865	11091	.....	−0·022	+0·21	.....	.....
515	+15	1775	11114	.....	−0·039	+0·09	.....	.....
516	+49	1711	11125	.....	−0·001	+0·47	.....	.....
517	+56	1278	11158	.....	+0·016	−0·14	.....	.....
518	+ 9	1917	11254	312	−0·003	−0·19	+0·026	−0·21
519	+ 4	1945	11285	1216	−0·032	+0·30	−0·028	+0·45
520	+82	235	11296	.....	−0·042	+0·01	.....	.....
521	−15	2362	11299	.....	+0·002	+0·54	.....	.....
522	+72	409	11302	.....	−0·056	−0·11	.....	.....
523	− 9	2471	11346	1218	−0·007	+0·11	+0·030	−0·04
524	+24	1909	11363	.....	−0·018	−0·30	.....	.....
525	+61	1043	11381	.....	−0·061	−0·09	.....	.....
526	+32	1725	11444	.....	−0·021	+0·11	.....	.....
527	+11	1830	11454	.....	−0·049	+0·12	.....	.....
528	−23	7277	11491	1221	+0·012	+0·14	+0·006	−0·02
529	+17	1842	11494	.....	−0·026	−0·23	.....	.....
530	− 3	2339	11499	316	−0·027	−0·07	+0·005	−0·13
531	+ 8	2053	11505	.....	−0·051	−0·19	.....	.....
532	−14	2517	11512	.....	−0·032	+1·07	.....	.....
533	− 3	2345	11523	.....	−0·003	−0·53	.....	.....
534	+26	1789	11609	.....	−0·009	−0·48	.....	.....
535	+36	1836	11702	.....	−0·040	−0·41	.....	.....
536	+10	1837	11807	.....	−0·021	+0·26	.....	.....
537	−18	2416	11813	.....	−0·082	−0·47	.....	.....
538	+15	643	11817	.....	−0·036	+0·16	.....	.....
539	+ 6	2001	11823	1223	−0·029	−0·23	−0·001	−0·35
540	+20	2149	11874	.....	−0·020	−0·93	.....	.....
541	+51	1443	11882	.....	−0·015	−0·18	.....	.....
542	+82	253	11900	.....	−0·130	0·00	.....	.....
543	+46	1422	11903	1225	−0·062	−0·38	−0·018	−0·42
544	+ 3	2039	11987	.....	−0·010	−0·04	.....	.....
545	+18	2027	12022	326	−0·048	+0·16	−0·010	−0·03
546	+31	1876	12037	.....	+0·008	+0·55	.....	.....
547	+ 6	2030	12041	.....	−0·017	+0·69	.....	.....
548	−20	2667	12052	1229	−0·081	+1·06	−0·092	+0·08
549	−10	2634	12086	.....	−0·036	−1·37	.....	.....
550	+ 6	2036	12102	.....	−0·022	−0·48	.....	.....
551	− 1	2130	12122	.....	−0·016	−0·51	.....	.....

Cat. No.	B. D. or C. D. No.		G. C. No.	FK3 No.	O - G. C. Δα	O - G. C. Δδ	O - FK3 Δα	O - FK3 Δδ
	°				s	″	s	″
552	+89	13	12154	.....	−0·113	+0·12	.....	
553	+44	1794	12221	.....	−0·042	−0·38	.....	
554	+59	1198	12234	.....	−0·041	−0·04	.....	
555	− 8	2518	12305	.....	−0·002	+0·45	.....	
556	+78	297	12309	.....	+0·030	−0·64	.....	
557	+ 6	2060	12327	334	−0·011	−0·37	+0·019	−0·34
558	−17	2691	12331	1231	−0·084	+0·19	−0·075	+0·71
559	+12	1941	12339	.....	−0·048	+0·73	.....	
560	+22	2029	12362	.....	−0·035	+0·34	.....	
561	+12	1948	12406	337	−0·036	−0·18	−0·011	−0·30
562	+48	1707	12407	335	−0·026	+0·42	−0·002	+0·37
563	+38	1986	12432	.....	−0·026	+0·39	.....	
564	+ 0	2449	12487	1235	−0·031	−0·43	−0·002	−0·55
565	+47	1633	12503	341	−0·037	+0·08	0·000	−0·11
566	− 4	2530	12522	1236	−0·028	−0·97	+0·010	−1·06
567	+ 5	2116	12564	.....	−0·021	−0·44	.....	
568	+30	1817	12593	.....	−0·024	+0·43	.....	
569	+11	1984	12596	1238	−0·007	−0·06	+0·023	−0·21
570	+84	196	12603	Nζ	+0·063	−0·19	+0·066	+0·12
571	+27	1715	12615	.....	−0·033	+1·09	.....	
572	−26	6766	12636	.....	−0·083	+0·15	.....	
573	−11	2565	12645	1240	+0·024	+0·35	+0·055	+0·51
574	+64	723	12646	.....	−0·008	−0·16	.....	
575	+18	2138	12685	.....	−0·029	−0·38	.....	
576	+ 2	2167	12743	347	−0·037	+0·05	−0·014	+0·04
577	+54	1285	12761	.....	−0·028	+0·82	.....	
578	+ 1	2267	12796	.....	−0·014	−0·36	.....	
579	+47	1658	12799	.....	−0·063	−0·03	.....	
580	− 5	2762	12800	.....	−0·037	−0·52	.....	
581	+74	393	12814	.....	−0·060	+0·25	.....	
582	+23	2072	12815	.....	−0·034	+0·07	.....	
583	−16	2749	12849	.....	−0·099	−0·20	.....	
584	+35	1979	12880	352	−0·078	−0·03	−0·042	−0·06
585	+57	1214	12883	.....	+0·009	+0·45	.....	
586	+13	2074	12899	.....	−0·007	+0·21	.....	
587	−25	7114	12916	1243	−0·005	−0·23	−0·002	−0·29
588	−28	7196	12952	.....	+0·009	+0·81	.....	
589	+37	1978	12957	.....	+0·002	+0·13	.....	
590	+17	2078	12990	.....	−0·006	−0·41	.....	
591	−24	8060	12997	.....	−0·052	−0·43	.....	
592	− 8	2680	13044	354	−0·015	−0·20	+0·007	−0·11
593	− 2	2901	13080	.....	+0·023	−0·22	.....	
594	+34	1999	13112	.....	−0·020	+0·10	.....	
595	+28	1768	13128	.....	−0·018	+0·49	.....	
596	+10	2014	13150	.....	−0·020	+0·71	.....	
597	+52	1401	13157	358	−0·039	+0·29	+0·004	+0·31
598	+ 2	2217	13172	.....	−0·021	+0·36	.....	
599	+81	302	13174	Ne	−0·018	+0·20	−0·043	+0·06
600	−12	2926	13185	.....	−0·059	+1·27	.....	
601	+52	1402	13212	.....	−0·061	+0·71	.....	

Cat. No.	B. D. or C. D. No.		G. C. No.	FK3 No.	O – G. C. Δα	O – G. C. Δδ	O – FK3 Δα	O – FK3 Δδ
	°				s	″	s	″
602	−18	2728	13254	.....	−0·048	−0·65	.....	.....
603	+67	602	13304	.....	−0·117	+0·10	.....	.....
604	+ 5	2207	13316	1249	−0·038	−0·56	−0·026	−0·68
605	+43	1943	13318	.....	−0·076	−0·04	.....	.....
606	+20	2351	13322	.....	−0·024	−0·32	.....	.....
607	− 0	2231	13341	1250	−0·026	+0·71	−0·004	+0·60
608	− 9	2898	13343	.....	+0·017	+0·60	.....	.....
609	+10	2044	13366	365	−0·010	+0·13	+0·010	−0·04
610	+40	2241	13372	.....	−0·011	−0·65	.....	.....
611	+49	1868	13379	.....	−0·022	+0·18	.....	.....
612	+35	2042	13388	.....	−0·020	+0·50	.....	.....
613	+14	2136	13414	1252	−0·013	−0·93	+0·009	−1·00
614	−22	2705	13433	.....	+0·008	−0·08	.....	.....
615	+24	2129	13443	367	−0·026	−0·04	+0·003	−0·11
616	+19	2254	13444	1253	−0·019	−0·23	+0·003	−0·27
617	+ 7	2181	13452	.....	−0·014	+0·12	.....	.....
618	+59	1268	13540	368	−0·020	+0·17	+0·021	+0·04
619	+25	2169	13569	.....	−0·029	+0·04	.....	.....
620	+61	1151	13613	.....	−0·002	−0·05	.....	.....
621	+33	1920	13673	.....	−0·020	+0·21	.....	.....
622	− 6	3033	13674	1257	+0·033	+0·34	+0·054	+0·15
623	+57	1242	13735	.....	−0·033	+0·51	.....	.....
624	+22	2148	13740	.....	−0·033	+0·18	.....	.....
625	+ 8	2301	13755	378	−0·007	−0·08	+0·015	−0·13
626	− 0	2285	13804	.....	−0·005	−0·63	.....	.....
627	+84	225	13814	.....	+0·015	+0·28	.....	.....
628	−23	8973	13848	1260	−0·049	−0·12	−0·037	−0·11
630	+ 6	2259	13888	.....	−0·007	−0·13	.....	.....
631	+17	2171	13899	379	−0·002	−0·18	+0·025	−0·29
632	+12	2149	13926	380		+0·09		+0·02
633	+19	2307	13939	.....	−0·032	+0·31	.....	.....
634	−12	3101	13970	.....	+0·016	+0·53	.....	.....
635	+41	2063	13976	.....	−0·011	−0·07	.....	.....
636	−11	2820	13982	381	−0·023	−0·33	−0·006	−0·35
637	+38	2110	13985	.....	−0·006	−0·21	.....	.....
638	+28	1852	14014	.....	−0·029	+0·33	.....	.....
639	+79	328	14041	.....	+0·057	+0·30	.....	.....
640	+24	2207	14096	.....	+0·010	−0·09	.....	.....
641	+71	534	14102	.....	−0·049	+0·05	.....	.....
642	+14	2228	14110	.....	−0·021	−0·35	.....	.....
643	+43	2005	14113	383	−0·030	−0·25	−0·016	−·031
644	−18	2885	14116	.....	−0·029	+0·47	.....	.....
645	− 7	3001	14129	1263	−0·001	−0·67	+0·023	−0·69
646	+54	1367	14181	.....	+0·025	+0·17	.....	.....
647	+ 3	2352	14204	1266	−0·025	−0·38	+0·003	−0·51
648	−22	2904	14223	.....	−0·035	+0·52	.....	.....
649	+42	2115	14232	386	−0·018	+0·33	+0·001	+0·09
650	+34	2120	14252	1267	−0·046	−0·08	−0·018	−0·23
651	+ 9	2351	14301	.....	−0·006	+0·32	.....	.....
652	+84	234	14305	.....	−0·251	−0·28	.....	.....

Cat. No.	B. D. or C. D. No.		G. C. No.	FK3 No.	O – G. C. Δα	O – G. C. Δδ	O – FK3 Δα	O – FK3 Δδ
	°				s	″	s	″
653	−16	3052	14326	389	−0·006	+0·34	+0·007	+0·33
654	+60	1263	14345	.....	+0·019	+0·71	.....	.....
655	+83	297	14367	Nf	−0·064	+0·10	−0·009	+0·07
656	+16	2123	14380	.....	−0·032	−0·81	.....	.....
657	+29	2057	14409	1271	−0·046	+0·21	−0·022	+0·27
658	+10	2166	14487	396	−0·010	0·00	+0·010	−0·03
659	+41	2101	14491	.....	−0·027	+1·12	.....	.....
660	+35	2154	14501	.....	−0·046	+0·53	.....	.....
661	+22	2236	14525	.....	−0·060	+0·45	.....	.....
662	+ 2	2334	14543	.....	+0·010	−0·13	.....	.....
663	−11	2918	14582	1274	+0·029	0·00	+0·037	+0·26
664	− 8	2963	14596	.....	+0·031	−0·23	.....	.....
665	−16	3100	14631	.....	−0·028	−0·22	.....	.....
666	+47	1797	14659	.....	−0·083	+0·90	.....	.....
667	+81	349	14692	.....	−0·121	−0·03	.....	.....
669	+ 5	2384	14745	.....	−0·007	−0·44	.....	.....
670	−23	9500	14771	.....	−0·045	−0·97	.....	.....
671	+19	2371	14813	1279	+0·002	−0·04	+0·028	−0·18
672	−25	8237	14829	1280	+0·031	+0·52	+0·011	+0·56
673	− 1	2446	14877	.....	−0·012	+0·34	.....	.....
674	+11	2283	14889	409	−0·003	+0·05	+0·011	−0·17
675	+28	1931	14897	.....	−0·034	+0·26	.....	.....
676	+53	1440	14937	.....	+0·036	0·00	.....	.....
677	−12	3293	14994	.....	−0·015	−0·44	.....	.....
678	+ 1	2501	15022	.....	−0·031	−0·01	.....	.....
679	+20	2538	15073	.....	−0·043	−0·19	.....	.....
680	−18	3072	15085	.....	+0·001	+0·32	.....	.....
681	+36	2139	15089	.....	−0·013	+0·01	.....	.....
682	− 9	3182	15091	.....	+0·023	−0·11	.....	.....
683	+12	2284	15102	.....	−0·005	+0·75	.....	.....
684	+ 4	2407	15125	1284	−0·012	−0·06	+0·006	−0·26
685	+57	1302	15145	416	−0·013	+0·33	+0·016	+0·29
686	− 2	3270	15176	1285	−0·041	0·00	−0·018	+0·05
687	+62	1160	15179	.....	+0·009	+0·66	.....	.....
688	+62	1161	15185	417	+0·050	−0·12	+0·094	−0·15
689	+32	2102	15223	.....	−0·001	0·00	.....	.....
690	+ 8	2455	15235	418	−0·020	−0·33	0·000	−0·43
691	−10	3190	15256	1286	−0·005	+0·52	−0·009	+0·73
692	+18	2452	15273	.....	+0·002	−0·15	.....	.....
693	−20	3347	15274	.....	−0·023	+0·45	.....	.....
694	+72	515	15304	.....	+0·031	−0·65	.....	.....
695	+25	2344	15319	.....	−0·018	−0·10	.....	.....
696	+82	325	15335	.....	0·000	+0·68	.....	.....
697	+45	1897	15340	420	−0·078	+0·23	−0·051	+0·04
699	+86	161	15376	Nη	−0·176	+0·31	+0·060	+0·23
700	+69	602	15378	.....	−0·009	−0·12	.....	.....
701	−22	3095	15385	421	−0·020	+0·19	−0·016	+0·12
702	+55	1446	15399	.....	−0·005	+0·06	.....	.....
703	+21	2298	15438	422	−0·055	+0·58	−0·033	+0·41
704	+16	2234	15441	423	−0·006	+0·11	+0·011	−0·09

Cat. No.	B. D. or C. D. No.		G. C. No.	FK3 No.	O – G. C. Δα	O – G. C. Δδ	O – FK3 Δα	O – FK3 Δδ
	°				s	″	s	″
705	+23	2322	15460	.....	−0·057	−0·12	.....	
706	−18	3141	15469	.....	+0·008	+1·43	.....	
707	+14	2367	15487	.....	−0·006	−0·46	.....	
708	− 6	3344	15514	.....	−0·005	−0·03	.....	
709	+ 2	2409	15520	.....	−0·008	−0·24	.....	
710	+38	2225	15558	1293	−0·025	+0·31	−0·012	+0·25
711	− 0	2428	15566	.....	−0·017	−0·08	.....	
712	−13	3345	15567	426	−0·007	−0·06	+0·010	−0·16
713	+ 6	2437	15600	427	−0·013	−0·36	+0·004	−0·62
714	+17	2356	15677	.....	+0·012	−0·05	.....	
715	+27	2021	15682	1295	−0·042	−0·48	−0·029	−0·35
717	+ 9	2494	15694	.....	+0·010	−0·05	.....	
718	−20	3420	15704	.....	+0·020	+1·04	.....	
719	+30	2163	15772	.....	+0·003	+0·11	.....	
720	+81	373	15795	.....	+0·098	−0·13	.....	
721	+70	665	15799	433	+0·010	+0·39	+0·031	+0·24
722	+ 3	2521	15867	.....	−0·015	−0·17	.....	
723	− 3	3144	15878	.....	−0·046	+0·31	.....	
724	+21	2331	15879	.....	−0·033	+0·24	.....	
725	+11	2376	15889	.....	−0·027	+0·17	.....	
726	− 0	2458	15927	437	−0·009	−0·08	+0·008	−0·26
727	+78	392	15932	.....	−0·117	−0·61	.....	
728	+47	1894	15970	.....	−0·013	+0·11	.....	
729	−15	3323	16008	.....	−0·007	+0·71	.....	
730	− 7	3271	16027	.....	+0·004	−0·48	.....	
731	+36	2216	16127	.....	−0·005	−0·35	.....	
732	+48	1966	16137	441	−0·056	+0·14	−0·041	−0·08
733	+56	1544	16153	.....	−0·042	−0·09	.....	
734	+62	1198	16158	1303	−0·056	−0·07	−0·009	+0·10
735	+ 9	2549	16171	.....	−0·028	+0·13	.....	
736	+29	2214	16177	.....	−0·033	+0·16	.....	
737	+15	2383	16189	444	−0·016	−0·07	+0·001	−0·24
738	+ 2	2489	16215	445	−0·023	−0·06	−0·006	−0·26
739	−26	8807	16214	.....	+0·010	+1·07	.....	
740	− 4	3152	16220	1306	−0·006	+0·03	−0·004	−0·18
741	−11	3190	16231	.....	−0·041	+0·38	.....	
743	+16	2307	16255	.....	−0·012	−0·16	.....	
744	+54	1475	16268	447	−0·018	−0·25	+0·004	−0·39
745	−16	3358	16319	1309	−0·065	−0·15	−0·046	−0·20
746	+41	2253	16347	.....	−0·010	+0·12	.....	
747	+23	2174	16368	1310	−0·035	+0·26	−0·016	+0·13
748	+20	2664	16410	.....	+0·001	−0·39	.....	
749	− 9	3413	16421	.....	−0·094	+0·01	.....	
750	+ 7	2502	16425	1311	−0·010	−0·21	+0·006	−0·36
751	+13	2482	16428	.....	−0·014	+0·55	.....	
752	+65	863	16437	.....	−0·062	+0·54	.....	
753	+86	176	16496	Nθ	+0·102	+0·76	−0·033	+0·63
754	+ 9	2583	16512	450	−0·010	−0·21	0·000	−0·48
755	+49	2110	16537	.....	−0·070	+0·43	.....	
756	−11	3238	16549	.....	0·000	+0·42	.....	

Cat. No.	B. D. or C. D. No.		G. C. No.	FK3 No.	O – G. C. Δα	O – G. C. Δδ	O – FK3 Δα	O – FK3 Δδ
	°				s	″	s	″
757	+39	2496	16603	.....	−0·025	−0·02	.....	.....
758	+ 6	2559	16616	.....	−0·002	−0·42	.....	.....
759	+17	2446	16625	1313	−0·013	−0·04	+0·007	−0·19
760	− 1	2632	16642	.....	−0·021	−0·11	.....	.....
761	+26	2316	16659	.....	+0·002	+0·19	.....	.....
763	+11	2440	16693	.....	+0·009	+0·41	.....	.....
764	−16	3424	16740	457	−0·019	+0·26	−0·006	+0·13
765	+73	549	16744	.....	−0·013	+0·48	.....	.....
766	+24	2443	16752	.....	−0·043	−0·27	.....	.....
767	−15	3442	16762	.....	−0·017	+0·01	.....	.....
768	+88	71	16763	.....	+0·039	+0·17	.....	.....
769	+31	2350	16789	.....	−0·054	+0·22	.....	.....
770	+ 0	2920	16790	.....	+0·021	+0·25	.....	.....
771	+ 0	2926	16813	460	−0·042	−0·06	−0·028	−0·30
772	+58	1371	16843	.....	+0·031	+0·51	.....	.....
773	+52	1626	16906	.....	−0·027	+0·24	.....	.....
774	−27	8670	16936	1319	+0·016	+0·99	+0·003	+1·25
775	+64	896	16941	.....	0·000	−0·02	.....	.....
776	+18	2611	16976	.....	−0·092	+0·02	.....	.....
777	+42	2307	16978	.....	+0·009	−0·23	.....	.....
778	+26	2354	17012	.....	+0·005	−0·21	.....	.....
779	−15	3482	17029	465	−0·014	+0·12	+0·001	−0·14
780	−22	3383	17039	.....	−0·012	+0·66	.....	.....
781	− 3	3309	17050	.....	+0·027	−0·10	.....	.....
782	+ 8	2609	17063	.....	+0·002	+0·12	.....	.....
783	+11	2473	17103	.....	−0·016	+0·06	.....	.....
784	−12	3659	17113	1321	+0·026	−0·21	+0·036	−0·34
785	+38	2347	17116	.....	−0·016	+0·19	.....	.....
786	−22	3401	17133	471	−0·014	−0·27	−0·001	−0·45
787	+19	2584	17147	473	−0·027	−0·02	−0·012	−0·22
788	+46	1797	17171	.....	−0·007	+0·70	.....	.....
789	− 5	3535	17180	1324	−0·009	−0·08	+0·001	−0·27
790	+ 2	2560	17209	.....	−0·007	−0·48	.....	.....
791	−17	3668	17216	.....	−0·030	+0·62	.....	.....
792	+21	2439	17225	.....	−0·001	−0·19	.....	.....
793	− 7	3452	17227	475	−0·013	+0·11	−0·006	−0·05
794	+34	2344	17285	.....	−0·025	−0·08	.....	.....
795	− 2	3567	17319	.....	−0·019	+0·35	.....	.....
796	+81	402	17347	.....	−0·082	−0·50	.....	.....
797	−24	10540	17380	1329	+0·034	−1·00	+0·024	+0·94
798	−26	9340	17391	.....	−0·038	−0·62	.....	.....
799	+28	2153	17410	.....	−0·045	−0·27	.....	.....
800	+84	289	17443	.....	−0·061	−0·01	.....	.....
801	+17	2551	17464	1333	−0·014	−0·24	+0·012	−0·59
802	+13	2602	17502	.....	+0·030	+0·25	.....	.....
804	−17	3726	17506	1334	+0·020	−0·13	+0·038	−0·28
805	+56	1627	17518	483	−0·052	+0·36	−0·032	+0·11
806	+ 0	3002	17542	.....	+0·009	+0·64	.....	.....
807	+ 4	2669	17543	484	−0·029	−0·05	−0·015	−0·27
808	−14	3605	17548	.....	−0·013	−0·34	.....	.....

Cat. No.	B. D. or C. D. No.		G. C. No.	FK3 No.	O – G. C. Δα	O – G. C. Δδ	O – FK3 Δα	O – FK3 Δδ
	°				s	″	s	″
809	+39	2580	17557	485	−0·021	+0·13	−0·008	−0·06
810	+54	1556	17567	.....	−0·030	+0·09	.....	.....
811	+44	2234	17572	.....	−0·013	+0·53	.....	.....
812	− 6	3705	17599	.....	−0·037	−0·40	.....	.....
813	− 3	3384	17631	1336	−0·028	−0·38	−0·008	−0·57
814	+76	473	17637	.....	−0·009	+0·16	.....	.....
815	+32	2311	17652	.....	−0·028	+0·30	.....	.....
816	+57	1408	17664	.....	+0·013	+0·24	.....	.....
817	+11	2529	17687	488	−0·036	−0·33	−0·021	−0·57
818	+23	2530	17699	.....	−0·007	+0·68	.....	.....
819	−13	3651	17746	.....	−0·074	+0·24	.....	.....
820	+46	1847	17758	1338	−0·042	−0·09	−0·017	−0·18
821	+28	2185	17787	.....	−0·046	+0·37	.....	.....
822	+ 6	2697	17811	.....	+0·003	−0·13	.....	.....
823	−22	3515	17813	.....	−0·031	+0·73	.....	.....
824	+17	2595	17825	.....	+0·008	+0·05	.....	.....
825	− 4	3430	17828	490	−0·012	−0·21	−0·002	−0·45
826	+63	1056	17837	.....	−0·079	+0·31	.....	.....
827	−25	9653	17861	1341	+0·001	+1·21	−0·020	+1·26
828	+28	2193	17874	492	−0·025	−0·14	−0·016	−0·24
829	+81	416	17932	.....	−0·090	+0·01	.....	.....
830	+73	587	17934	.....	−0·123	+0·14	.....	.....
831	+20	2814	17970	.....	+0·012	+0·11	.....	.....
832	+10	2531	17975	.....	−0·021	−0·21	.....	.....
833	+ 6	2722	17995	1344	−0·005	−0·13	0·000	−0·42
834	− 7	3582	17996	.....	0·000	+0·07	.....	.....
835	+ 4	2721	18015	.....	−0·005	−0·41	.....	.....
836	+35	2435	18023	.....	−0·024	+0·81	.....	.....
837	+40	2647	18048	1346	−0·068	+0·02	−0·048	−0·14
838	−20	3818	18120	.....	−0·023	−0·30	.....	.....
839	+55	1598	18133	497	−0·069	+0·15	−0·037	−0·12
840	−10	3672	18144	498	−0·020	−0·06	−0·018	−0·23
841	+16	2508	18154	.....	−0·005	+0·50	.....	.....
842	− 0	2686	18163	.....	+0·028	−0·07	.....	.....
843	−11	3516	18168	1348	+0·025	+0·34	+0·038	+0·25
844	+53	1622	18213	.....	+0·046	−0·39	.....	.....
845	+31	2493	18214	1350	0·000	−0·04	−0·014	−0·10
846	+ 7	2655	18249	.....	−0·001	−0·43	.....	.....
847	+27	2262	18273	.....	−0·042	+0·12	.....	.....
848	− 9	3711	18309	.....	+0·004	+0·06	.....	.....
849	+ 0	3076	18351	501	−0·006	+0·10	+0·009	−0·08
850	+49	2227	18356	.....	−0·042	+0·24	.....	.....
851	+44	2285	18370	1353	−0·033	−0·21	−0·001	−0·50
852	+ 3	2799	18419	.....	−0·014	+0·14	.....	.....
853	+23	2591	18433	.....	−0·022	−0·27	.....	.....
854	+11	2589	18466	.....	+0·015	+0·34	.....	.....
855	−15	3715	18468	.....	+0·006	+0·44	.....	.....
856	−22	3645	18502	1354	+0·023	+0·68	+0·024	+0·38
857	+55	1625	18504	.....	+0·004	+0·05	.....	.....
858	+65	953	18527	.....	−0·052	+0·12	.....	.....

Cat. No.	B. D. or C. D. No.		G. C. No.	FK3 No.	O – G. C. Δα	O – G. C. Δδ	O – FK3 Δα	O – FK3 Δδ
	°				s	″	s	″
859	+35	2474	18539	.....	−0·044	+0·07	.....	.....
860	− 4	3540	18562	.....	−0·025	+0·10	.....	.....
861	−11	3591	18604	.....	−0·003	+0·26	.....	.....
862	+83	397	18611	Nι	−0·114	−0·11	−0·151	+0·14
863	+26	2494	18623	1358	−0·033	0·00	−0·013	−0·11
864	+18	2782	18637	507	−0·013	−0·08	+0·002	−0·31
865	+50	2027	18643	509	−0·063	+0·19	−0·051	−0·01
866	+ 9	2814	18680	1359	+0·009	+0·47	−0·002	+0·24
867	+19	2719	18692	.....	−0·018	+0·29	.....	.....
868	+62	1318	18704	.....	−0·045	+0·39	.....	.....
869	+40	2701	18742	.....	−0·023	−0·04	.....	.....
870	+19	2725	18805	513	+0·002	+0·17	+0·014	−0·05
871	− 8	3667	18823	.....	+0·017	+0·17	.....	.....
872	+14	2680	18830	.....	−0·028	+0·22	.....	.....
873	+32	2411	18843	1360	−0·015	−0·05	+0·005	−0·28
874	+22	2650	18900	.....	−0·013	−0·46	.....	.....
875	− 2	3768	18919	1362	+0·012	+0·49	+0·027	+0·21
876	+ 2	2761	18945	516	−0·027	+0·05	−0·013	−0·22
877	−16	3785	18974	.....	−0·004	+0·17	.....	.....
878	−21	3824	18986	.....	−0·018	+0·71	.....	.....
879	+51	1889	18990	.....	+0·011	+0·55	.....	.....
880	+ 5	2836	18993	.....	+0·034	−0·45	.....	.....
881	−13	3863	18999	1365	−0·009	−0·14	+0·004	−0·29
882	+65	978	19019	521	−0·052	+0·27	+0·006	+0·18
883	−26	10095	19029	519	−0·012	+0·53	−0·005	+0·23
885	+39	2720	19048	1367	−0·021	−0·16	−0·011	−0·49
886	+50	2047	19095	.....	−0·015	−0·02	.....	.....
887	−26	10158	19163	.....	+0·019	+0·41	.....	.....
888	− 9	3878	19168	523	−0·006	−0·02	+0·006	−0·26
889	+70	778	19189	.....	−0·097	−0·48	.....	.....
890	+ 4	2841	19223	.....	−0·026	+0·25	.....	.....
891	+22	2678	19224	.....	−0·026	+0·31	.....	.....
892	+19	2777	19242	526	−0·024	+0·06	−0·010	−0·29
893	− 5	3843	19244	525	+0·014	−0·52	+0·023	−0·75
894	+57	1498	19267	.....	+0·004	+0·38	.....	.....
895	+46	1949	19273	527	−0·056	+0·35	−0·031	+0·03
896	− 6	3964	19289	.....	+0·008	+0·87	.....	.....
897	−18	3789	19295	1369	+0·009	+0·21	+0·026	−0·08
898	−12	4018	19311	1371	−0·007	+0·08	−0·003	−0·02
899	+13	2782	19319	1372	+0·014	−0·07	+0·025	−0·26
900	+42	2481	19322	.....	−0·042	+0·33	.....	.....
901	+31	2605	19345	.....	−0·002	−0·55	.....	.....
902	+ 8	2857	19417	.....	−0·013	+0·15	.....	.....
903	−24	11469	19435	1376	−0·007	+0·21	−0·010	+0·15
904	−12	4042	19446	.....	+0·016	−0·21	.....	.....
905	+52	1804	19467	531	−0·016	+0·13	+0·001	−0·12
906	− 1	2957	19504	533	−0·017	−0·08	−0·015	−0·34
907	+36	2495	19519	.....	−0·048	+0·68	.....	.....
908	+28	2332	19522	.....	−0·019	−0·03	.....	.....
909	+31	2628	19597	534	−0·030	−0·06	−0·010	−0·34

Cat. No.	B. D. or C. D. No.		G. C. No.	FK3 No.	O – G. C. Δα	O – G. C. Δδ	O – FK3 Δα	O – FK3 Δδ
	°				s	″	s	″
910	+38	2565	19607	535	−0·042	+0·05	−0·024	−0·13
911	+81	482	19630	.....	−0·057	−0·14	.....	.....
912	+66	855	19660	.....	−0·053	−0·34	.....	.....
913	+50	2095	19668	.....	0·000	+0·45	.....	.....
914	+23	2710	19687	.....	−0·012	+0·05	.....	.....
915	−11	3770	19695	1381	+0·017	+0·13	+0·004	+0·03
916	+ 2	2844	19704	.....	−0·032	+0·20	.....	.....
917	+54	1693	19742	.....	+0·041	+0·29	.....	.....
918	+12	1879	19793	1382	−0·025	−0·04	−0·007	−0·29
919	−18	3882	19806	.....	−0·042	+0·82	.....	.....
920	− 5	3936	19816	545	−0·013	+0·08	+0·002	−0·05
921	− 7	3897	19836	.....	+0·020	+0·44	.....	.....
922	+27	2417	19856	C3	−0·018	+0·31	−0·001	+0·10
923	+33	2489	19867	1384	−0·022	−0·11	−0·007	−0·15
924	−22	3844	19871	.....	+0·034	+0·56	.....	.....
925	+ 2	2862	19884	547	−0·033	+0·32	−0·024	−0·07
926	+15	2758	19885	.....	−0·006	+0·37	.....	.....
927	−25	10537	19904	1385	+0·015	+0·57	+0·024	−0·06
928	− 0	2886	19932	.....	+0·002	+0·02	.....	.....
929	+29	2581	19966	.....	−0·029	−0·31	.....	.....
930	−15	3966	19975	548	−0·007	+0·36	+0·004	+0·13
931	+37	2580	19982	.....	−0·046	+0·30	.....	.....
932	−30	11780	19999	.....	+0·007	−0·17	.....	.....
933	+74	595	20029	550	−0·029	+0·38	+0·038	+0·20
934	+ 6	2957	20039	1388	0·000	−0·21	+0·010	−0·67
935	+83	431	20087	Nκ	−0·030	−0·09	−0·083	−0·10
936	+87	143	20088	.....	−0·365	+0·02	.....	.....
937	+41	2539	20097	.....	−0·071	+0·11	.....	.....
938	+22	2764	20120	1392	−0·026	−0·37	−0·024	−0·66
939	+ 0	3277	20122	1393	−0·015	+0·01	+0·006	−0·32
940	+14	2812	20147	.....	+0·026	+0·79	.....	.....
941	− 7	3938	20195	1394	+0·005	+0·12	+0·010	−0·12
942	− 7	3943	20215	.....	+0·034	−0·29	.....	.....
943	+40	2840	20226	555	−0·022	+0·49	−0·004	+0·11
944	+72	664	20236	.....	−0·157	−0·18	.....	.....
945	−21	4030	20305	.....	+0·042	+0·10	.....	.....
946	+48	2262	20308	1395	−0·049	+0·48	−0·025	+0·05
947	−12	4198	20310	.....	−0·029	+0·18	.....	.....
948	+19	2924	20340	.....	−0·032	+0·74	.....	.....
949	+ 6	3001	20346	.....	−0·005	+0·58	.....	.....
950	+26	2656	20367	.....	−0·023	+0·04	.....	.....
951	+34	2604	20369	.....	−0·032	+0·15	.....	.....
952	+50	2146	20380	.....	−0·024	+0·22	.....	.....
953	+63	1167	20381	.....	−0·070	+0·49	.....	.....
954	− 4	3818	20384	.....	+0·012	+0·11	.....	.....
955	−25	10758	20389	.....	−0·027	+0·40	.....	.....
956	+43	2475	20492	.....	−0·064	−0·52	.....	.....
957	− 8	3935	20539	564	−0·006	−0·08	+0·006	−0·32
958	+37	2625	20543	.....	−0·042	+0·66	.....	.....
959	+69	789	20544	.....	−0·155	+0·84	.....	.....

Cat. No.	B. D. or C. D. No.		G. C. No.	FK3 No.	O - G. C. Δα	O - G. C. Δδ	O - FK3 Δα	O - FK3 Δδ
	°				s	″	s	″
960	+21	2755	20575	1400	−0·004	+0·37	+0·008	+0·14
961	+16	2823	20579	1401	+0·023	+0·47	+0·041	+0·15
962	−15	4083	20628	.....	−0·004	−0·03	.....	.....
963	+ 1	3067	20637	.....	+0·031	+0·07	.....	.....
964	− 6	4148	20638	.....	+0·006	0·00	.....	.....
965	−26	10842	20678	1404	+0·021	+1·18	+0·007	+1·06
966	+72	679	20692	569	+0·024	+0·25	+0·077	+0·04
967	−11	3940	20695	.....	+0·007	+0·01	.....	.....
968	− 0	2961	20697	1406	+0·001	−0·30	+0·014	−0·60
969	+25	2916	20786	.....	+0·009	+0·35	.....	.....
970	+55	1756	20833	.....	−0·016	+1·00	.....	.....
971	−20	4246	20834	.....	−0·010	−0·17	.....	.....
972	+31	2742	20848	.....	+0·010	−0·11	.....	.....
973	+ 9	3055	20850	1408	−0·026	+0·12	−0·005	−0·31
974	+27	2512	20947	578	−0·036	+0·66	−0·021	+0·27
975	−14	4237	20949	577	−0·007	+0·35	+0·009	+0·10
976	+81	517	20951	.....	−0·024	+0·43	.....	.....
977	+77	592	20952	.....	+0·046	+0·52	.....	.....
978	+11	2826	20968	.....	+0·140	+0·47	.....	.....
979	−18	4118	21031	.....	−0·009	+0·21	.....	.....
981	+47	2253	21044	1412	−0·038	−0·23	−0·019	−0·19
982	+35	2711	21048	.....	−0·034	+0·04	.....	.....
983	+37	2665	21064	.....	−0·016	−0·05	.....	.....
984	− 5	4143	21095	.....	+0·021	−0·14	.....	.....
985	−14	4266	21129	.....	+0·022	+0·50	.....	.....
986	+52	1898	21154	.....	+0·001	+0·87	.....	.....
987	+ 2	2989	21155	.....	+0·056	−0·41	.....	.....
988	+ 6	3088	21158	582	−0·001	+0·25	+0·004	−0·16
989	+17	2906	21164	.....	+0·002	+0·53	.....	.....
990	+15	2911	21194	583	−0·019	+0·15	−0·012	−0·25
991	+ 7	3023	21201	.....	+0·027	−0·32	.....	.....
992	−23	12525	21235	.....	+0·004	+0·44	.....	.....
993	+78	527	21243	590	−0·125	+0·30	−0·044	+0·28
994	− 3	3829	21251	.....	+0·022	+0·13	.....	.....
995	+28	2477	21257	.....	−0·005	+0·30	.....	.....
996	− 2	4052	21269	585	−0·020	+0·04	−0·013	−0·09
997	+ 4	3069	21288	588	+0·040	+0·20	+0·044	−0·22
998	+83	453	21295	Nλ	−0·251	+0·14	−0·159	+0·03
999	+20	3166	21368	.....	+0·007	+0·12	.....	.....
1000	+16	2849	21408	591	−0·031	+0·35	−0·022	+0·06
1001	+14	2969	21428	.....	−0·001	+0·41	.....	.....
1002	−25	11228	21447	592	−0·012	+0·55	−0·005	+0·16
1003	− 5	4210	21487	.....	−0·005	+0·14	.....	.....
1004	−22	4068	21489	594	−0·012	+0·94	−0·011	+0·70
1005	+31	2805	21519	.....	−0·024	+0·11	.....	.....
1006	−25	11295	21556	.....	−0·035	+0·23	.....	.....
1007	+37	2708	21590	.....	−0·032	+0·43	.....	.....
1008	+59	1697	21604	.....	−0·043	+0·13	.....	.....
1009	−19	4307	21609	597	−0·021	+0·25	−0·016	−0·01
1010	−12	4425	21667	.....	+0·004	+0·45	.....	.....

Cat. No.	B. D. or C. D. No.	G. C. No.	FK3 No.	O – G. C. Δα	O – G. C. Δδ	O – FK3 Δα	O – FK3 Δδ
	°			s	″	s	″
1011	−23 12731	21694	.....	−0·034	+0·37	.....	.....
1012	+17 2964	21696	1421	0·000	+0·37	+0·003	+0·05
1013	+45 2374	21715	.....	−0·002	+0·55	.....	.....
1014	+ 6 3169	21724	1422	−0·029	−0·03	−0·015	−0·99
1015	+41 2673	21743	.....	−0·091	−0·27	.....	.....
1016	+27 2595	21751	.....	−0·028	−0·23	.....	.....
1017	− 1 3149	21826	.....	−0·008	+0·74	.....	.....
1018	− 3 3903	21838	603	−0·018	+0·11	−0·008	−0·15
1019	+11 2947	21858	.....	+0·015	+0·42	.....	.....
1020	− 7 4242	21864	.....	−0·012	+0·68	.....	.....
1021	+75 586	21880	.....	−0·091	+0·13	.....	.....
1022	+23 2916	21887	1425	−0·013	+0·13	0·000	−0·18
1023	+53 1856	21897	.....	−0·019	+0·67	.....	.....
1024	− 4 4086	21920	605	+0·012	+0·11	+0·019	−0·23
1025	+32 2702	21924	.....	−0·018	+1·00	.....	.....
1026	−18 4260	21950	.....	+0·017	−0·73	.....	.....
1027	−25 11485	21982	607	+0·030	+0·48	+0·034	+0·20
1028	+46 2169	21987	608	−0·071	+0·53	−0·061	+0·22
1029	+ 1 3215	22007	1427	+0·026	−0·15	+0·027	−0·31
1030	+19 3086	22012	609	−0·025	+0·10	−0·006	−0·15
1031	− 2 4179	22064	.....	+0·005	+0·26	.....	.....
1032	+61 1591	22101	.....	−0·074	+0·74	.....	.....
1033	−26 11359	22157	616	−0·041	+0·63	−0·044	+0·22
1034	+29 2834	22165	.....	−0·009	+0·23	.....	.....
1035	−14 4433	22171	1430	−0·018	+0·37	−0·016	+0·08
1036	−24 12695	22179	.....	+0·012	+0·42	.....	.....
1037	+ 6 3236	22183	.....	0·000	+0·15	.....	.....
1038	+21 2934	22193	618	−0·004	+0·14	+0·002	−0·15
1039	+35 2828	22224	.....	−0·063	+0·42	.....	.....
1040	+61 1598	22281	1432	−0·025	+0·86	+0·009	+0·62
1041	−27 11015	22303	620	+0·030	+0·63	+0·034	+0·38
1042	+17 3053	22314	.....	−0·004	+0·20	.....	.....
1043	−10 4350	22332	622	−0·020	+0·10	−0·010	−0·17
1044	+80 519	22337	.....	−0·068	−0·28	.....	.....
1045	+46 2194	22344	.....	−0·061	+0·04	.....	.....
1046	+23 2965	22345	.....	+0·013	+0·33	.....	.....
1047	− 6 4467	22360	.....	−0·062	−0·01	.....	.....
1048	+13 3177	22361	.....	−0·025	+0·17	.....	.....
1050	+56 1907	22398	.....	−0·014	+0·36	.....	.....
1051	+39 3029	22502	626	−0·021	+0·17	−0·008	−0·28
1052	−28 12358	22520	.....	+0·024	+0·92	.....	.....
1053	+34 2830	22522	.....	−0·011	+0·54	.....	.....
1054	+ 8 3271	22560	.....	+0·018	+0·11	.....	.....
1055	+ 2 3175	22592	1436	+0·019	+0·47	+0·038	+0·17
1056	− 4 4165	22622	.....	−0·017	+0·71	.....	.....
1057	−21 4422	22629	1437	+0·003	+1·06	+0·016	+0·89
1058	+53 1897	22672	.....	−0·027	+0·82	.....	.....
1059	+30 2884	22682	.....	−0·042	+0·25	.....	.....
1061	+18 3261	22732	.....	+0·037	+0·66	.....	.....
1062	+82 498	22749	Ng	−0·093	+0·17	+0·003	−0·04

Cat. No.	B. D. or C. D. No.		G. C. No.	FK3 No.	O – G. C. Δα	O – G. C. Δδ	O – FK3 Δα	O – FK3 Δδ
	°				s	″	s	″
1063	− 5	4374	22783	.....	−0·015	−0·05	.....	.....
1064	+75	608	22843	.....	−0·038	+0·94	.....	.....
1065	+14	3155	22861	.....	−0·001	+0·32	.....	.....
1066	+ 9	3298	22862	633	−0·003	+0·32	+0·009	−0·01
1067	+24	3095	22870	.....	−0·025	+0·37	.....	.....
1068	+65	1157	22871	.....	−0·003	+0·56	.....	.....
1069	+31	2947	22935	634	−0·028	+0·24	−0·015	−0·19
1070	−18	4381	22951	.....	+0·030	+0·48	.....	.....
1071	+19	3220	23046	.....	+0·011	+0·37	.....	.....
1072	−21	4512	23065	.....	+0·015	+0·24	.....	.....
1073	+49	2583	23071	.....	−0·022	+0·51	.....	.....
1074	+44	2652	23073	1448	−0·040	−0·03	−0·030	−0·32
1075	−26	11896	23081	1447	+0·047	+1·55	+0·052	+1·34
1076	− 0	3230	23120	.....	+0·006	+0·26	.....	.....
1077	+31	2967	23127	.....	−0·046	+0·06	.....	.....
1078	+28	2667	23135	.....	+0·005	+0·39	.....	.....
1079	−10	4445	23145	1450	−0·059	+0·03	−0·038	−0·22
1080	−15	4467	23158	637	−0·023	+0·38	−0·018	+0·14
1081	−14	4565	23194	.....	−0·011	+0·98	.....	.....
1082	+ 8	3367	23199	1451	+0·001	+0·49	+0·006	+0·16
1083	+21	3070	23248	.....	−0·033	+0·29	.....	.....
1084	+63	1336	23266	.....	−0·039	+0·22	.....	.....
1085	+14	3207	23277	640	−0·018	+0·37	−0·006	+0·05
1086	− 9	4525	23293	.....	−0·008	+0·31	.....	.....
1087	+ 1	3408	23317	1453	−0·014	+0·46	+0·006	+0·24
1088	+39	3098	23352	.....	−0·043	−0·04	.....	.....
1089	+11	3156	23382	.....	−0·003	+0·04	.....	.....
1090	−17	4773	23396	.....	+0·038	+0·36	.....	.....
1091	+71	835	23397	.....	−0·007	+0·47	.....	.....
1092	−24	13292	23451	644	−0·029	−0·16	−0·024	−0·38
1093	−21	4597	23533	.....	−0·007	+1·20	.....	.....
1094	+50	2400	23591	.....	−0·044	+0·68	.....	.....
1095	− 1	3329	23598	1458	−0·002	+0·14	−0·019	−0·02
1096	+80	544	23599	.....	−0·037	+0·13	.....	.....
1097	+16	3183	23603	.....	+0·027	−0·01	.....	.....
1098	+ 7	3368	23614	.....	−0·025	+0·35	.....	.....
1099	+27	2809	23619	.....	−0·001	+0·87	.....	.....
1100	+ 4	3422	23621	1459	+0·013	+0·11	+0·013	−0·14
1101	+58	1731	23654	.....	−0·042	+0·24	.....	.....
1102	+52	2065	23741	653	−0·051	+0·49	−0·027	+0·14
1103	− 5	4461	23788	.....	+0·019	+0·12	.....	.....
1104	−11	4411	23816	1461	−0·001	+0·15	+0·008	−0·02
1105	+12	3252	23837	656	−0·021	+0·12	−0·012	−0·23
1106	+41	2856	23845	.....	−0·035	+0·13	.....	.....
1107	+12	3256	23853	.....	+0·006	+0·23	.....	.....
1108	+30	3033	23879	.....	−0·043	+0·54	.....	.....
1109	−15	4622	23882	.....	+0·025	+0·56	.....	.....
1110	+48	2542	23894	.....	+0·023	+0·58	.....	.....
1111	+24	3218	23901	.....	−0·035	+0·31	.....	.....
1112	+36	3912	23921	.....	−0·087	+0·02	.....	.....

Cat. No.	B. D. or C. D. No.		G. C. No.	FK3 No.	O – G. C. Δα	O – G. C. Δδ	O – FK3 Δα	O – FK3 Δδ
	°				s	″	s	″
1113	+ 3	3465	23929	.....	+0·019	+0·19	.....	.....
1114	+46	2349	23965	663	−0·049	+0·17	−0·035	−0·10
1115	+ 4	3489	24048	665	+0·005	+0·50	+0·008	+0·14
1116	+27	2888	24138	667	+0·018	−0·49	+0·027	−0·72
1117	−22	4423	24147	.....	−0·035	+1·44	.....	.....
1118	−14	4770	24148	.....	−0·019	+0·43	.....	.....
1119	+17	3334	24150	.....	−0·026	+0·15	.....	.....
1120	+ 2	3403	24162	668	+0·013	+0·39	+0·012	+0·05
1121	+80	555	24180	.....	−0·006	+0·24	.....	.....
1122	+25	3353	24199	.....	−0·016	+0·30	.....	.....
1123	+ 9	3485	24219	1466	−0·023	+0·53	+0·011	+0·21
1124	+86	269	24236	Nh	−0·318	+0·27	−0·149	+0·04
1125	− 1	3412	24271	.....	+0·029	+0·50	.....	.....
1126	− 7	4523	24356	1467	+0·008	+0·31	+0·007	+0·07
1127	+22	3237	24392	.....	−0·026	+0·16	.....	.....
1128	+55	1995	24410	.....	−0·031	+0·77	.....	.....
1129	+51	2282	24432	676	−0·049	+0·51	−0·029	+0·27
1130	+33	2995	24437	.....	−0·027	+0·09	.....	.....
1131	+62	1586	24455	.....	−0·052	+0·56	.....	.....
1132	+14	3374	24461	.....	−0·038	+0·42	.....	.....
1133	− 9	4632	24468	673	+0·018	+0·27	+0·021	+0·15
1134	+52	2119	24489	.....	−0·014	+0·63	.....	.....
1135	+ 4	3570	24500	.....	−0·007	+0·40	.....	.....
1136	+ 2	3458	24509	677	+0·047	+0·04	+0·060	−0·07
1137	−17	4987	24517	1470	−0·018	+0·34	−0·003	+0·24
1138	+44	2812	24581	.....	−0·043	−0·17	.....	.....
1139	+39	3310	24628	.....	−0·008	+0·60	.....	.....
1140	−30	15215	24632	679	−0·027	+1·58	−0·011	+1·25
1141	+79	571	24669	.....	−0·010	+0·40	.....	.....
1142	−21	4855	24678	.....	+0·009	+0·65	.....	.....
1143	+ 9	3564	24695	680	−0·023	+0·16	−0·012	−0·11
1144	+15	3365	24699	.....	−0·006	+0·34	.....	.....
1145	+26	3178	24720	.....	−0·006	+0·76	.....	.....
1146	+49	2732	24722	.....	−0·058	+0·56	.....	.....
1147	− 2	4558	24726	.....	+0·030	+0·34	.....	.....
1148	−13	4863	24750	1472	+0·012	+0·38	+0·023	+0·11
1149	+ 6	3639	24759	.....	−0·005	+0·02	.....	.....
1150	−21	4908	24856	682	+0·020	+0·44	+0·025	+0·32
1151	+30	3162	24933	.....	−0·019	−0·08	.....	.....
1152	−17	5112	24946	.....	−0·004	+0·31	.....	.....
1153	− 9	4678	24952	1475	+0·015	+0·19	+0·025	−0·01
1154	+13	3593	24977	.....	−0·010	+0·71	.....	.....
1155	+24	3381	25003	.....	−0·002	+0·04	.....	.....
1156	−29	14834	25024	687	−0·007	+1·19	−0·006	+0·94
1157	+ 3	3680	25036	1476	+0·010	−0·02	+0·024	−0·22
1158	− 2	4599	25046	688	−0·006	+0·03	+0·003	−0·15
1159	+21	3411	25116	690	−0·006	+0·24	−0·003	−0·23
1160	−20	5134	25132	.....	+0·014	−0·03	.....	.....
1161	+ 7	3682	25153	1478	−0·021	+0·25	+0·007	+0·11
1162	+29	3259	25165	1479	+0·023	−0·23	+0·052	−0·40

Cat. No.	B. D. or C. D. No.	G. C. No.	FK3 No.	O - G. C. Δα	O - G. C. Δδ	O - FK3 Δα	O - FK3 Δδ
	°			s	″	s	″
1163	−25 13149	25180	692	−0·027	+0·18	−0·025	−0·09
1164	−26 13192	25184	.....	−0·021	+0·79	.....	.....
1165	−14 5071	25220	696	−0·003	+0·17	−0·006	+0·11
1166	−10 4713	25282	.....	+0·035	−0·02	.....	.....
1167	+16 3529	25284	1481	−0·019	+0·18	−0·008	−0·13
1168	+41 3075	25301	.....	−0·035	−0·20	.....	.....
1169	+83 536	25334	Nμ	−0·206	+0·19	−0·063	+0·17
1170	+52 2232	25343	.....	−0·014	+0·46	.....	.....
1171	+38 3213	25352	.....	−0·068	−0·14	.....	.....
1172	+56 2113	25362	.....	+0·046	−0·49	.....	.....
1173	+20 3847	25371	.....	−0·016	−0·07	.....	.....
1174	+46 2508	25379	1483	−0·017	+0·41	−0·012	+0·23
1175	+10 3573	25381	.....	−0·022	+0·12	.....	.....
1176	+67 1079	25383	.....	−0·088	+0·36	.....	.....
1177	− 8 4638	25385	1482	0·000	+0·24	+0·010	+0·06
1178	+ 0 3975	25437	.....	+0·027	+0·16	.....	.....
1179	−17 5271	25452	.....	+0·021	−0·13	.....	.....
1180	+38 3238	25466	699	−0·058	−0·08	−0·046	−0·17
1181	+62 1637	25519	.....	−0·045	+0·64	.....	.....
1182	− 9 4796	25580	1486	−0·012	+0·39	−0·003	+0·17
1183	+31 3332	25583	.....	−0·034	+0·19	.....	.....
1184	−25 13394	25636	.....	−0·003	+0·96	.....	.....
1185	−27 13170	25661	1487	−0·013	+0·19	−0·006	−0·03
1186	−22 4854	25687	.....	+0·011	+0·52	.....	.....
1187	+18 3817	25729	.....	−0·044	−0·04	.....	.....
1188	− 4 4582	25730	1489	+0·017	−0·05	+0·022	−0·27
1189	−13 5119	25827	.....	+0·014	+0·28	.....	.....
1190	+26 3368	25838	.....	−0·042	−0·44	.....	.....
1191	+ 7 3862	25840	.....	+0·034	−0·06	.....	.....
1192	+33 3223	25847	705	−0·039	+0·11	+0·018	−0·23
1193	− 3 4390	25855	.....	+0·040	−0·23	.....	.....
1194	− 3 4392	25862	.....	−0·014	+0·39	.....	.....
1195	+21 3582	25895	.....	−0·030	−0·11	.....	.....
1196	+36 3307	25934	.....	−0·035	0·00	.....	.....
1197	−26 13595	25941	706	−0·012	+0·10	−0·013	−0·06
1198	−16 5078	25955	1495	+0·042	−0·05	+0·056	−0·08
1199	+ 4 3916	25991	709	+0·004	−0·17	+0·007	−0·62
1200	− 6 4976	26013	.....	−0·021	−0·03	.....	.....
1201	+ 2 3738	26020	.....	+0·025	−0·10	.....	.....
1202	+13 3838	26064	.....	+0·018	+0·09	.....	.....
1203	−32 3286	26086	713	−0·037	−0·36	−0·028	−0·52
1204	+40 3544	26087	.....	−0·031	−0·20	.....	.....
1205	+14 3736	26091	712	−0·002	−0·05	0·000	−0·20
1206	+82 572	26155	.....	−0·037	+0·42	.....	.....
1207	−30 16575	26161	715	−0·045	+1·42	−0·042	+1·27
1208	+19 3888	26198	.....	+0·005	+0·03	.....	.....
1209	−23 15008	26210	.....	−0·002	−0·33	.....	.....
1210	+45 2825	26268	.....	−0·128	−0·22	.....	.....
1211	+13 3899	26270	716	−0·017	+0·18	−0·008	−0·17
1212	− 5 4876	26285	717	+0·001	−0·09	+0·001	−0·25

Cat. No.	B. D. or C. D. No.		G. C. No.	FK3 No.	O – G. C. Δα	O – G. C. Δδ	O – FK3 Δα	O – FK3 Δδ
	°				s	″	s	″
1213	− 1	3649	26300	1497	−0·025	+0·01	−0·029	−0·28
1214	+28	3193	26317	1498	−0·014	+0·06	−0·012	−0·12
1215	+ 5	4040	26379	.....	+0·011	−0·14	.....	.....
1216	−21	5275	26386	720	−0·024	+0·15	−0·028	+0·04
1217	−12	5311	26469	.....	−0·008	−0·40	.....	.....
1218	+56	2209	26475	.....	−0·052	+0·51	.....	.....
1219	−25	13866	26516	.....	−0·025	+0·36	.....	.....
1220	+67	1129	26520	723	−0·062	+0·62	−0·038	+0·39
1221	+20	4088	26542	.....	−0·023	−0·04	.....	.....
1222	−19	5379	26589	722	−0·015	+0·56	−0·016	+0·37
1223	+11	3790	26609	725	+0·008	+0·19	+0·023	−0·18
1224	+53	2216	26621	726	−0·003	+0·29	+0·013	+0·14
1225	+37	3413	26650	.....	−0·048	+0·35	.....	.....
1226	− 5	4936	26669	.....	0·000	−0·10	.....	.....
1227	+65	1345	26735	.....	−0·098	+0·53	.....	.....
1228	+83	552	26773	.....	−0·140	+0·97	.....	.....
1229	+29	3584	26785	.....	−0·037	+0·12	.....	.....
1230	−14	5428	26805	.....	−0·080	+0·79	.....	.....
1231	+ 2	3879	26816	730	+0·008	−0·07	+0·020	−0·37
1232	−22	5105	26823	.....	−0·024	+0·03	.....	.....
1233	+76	734	26826	.....	−0·171	+0·36	.....	.....
1234	+19	4017	26844	1505	+0·007	−0·15	+0·026	−0·36
1235	+44	3133	26847	1506	−0·042	−0·19	−0·019	−0·32
1236	+62	1716	26888	.....	+0·020	+0·76	.....	.....
1237	− 0	3760	26907	.....	+0·013	−0·18	.....	.....
1238	−27	14004	26911	.....	−0·054	−0·16	.....	.....
1239	+33	3480	26946	.....	−0·035	+0·04	.....	.....
1240	+51	2605	26947	733	−0·059	+0·13	−0·050	−0·11
1241	+27	3410	26953	732	+0·001	+0·25	+0·007	+0·04
1242	+ 5	4177	26965	.....	−0·018	+0·38	.....	.....
1243	+70	1073	27023	.....	−0·065	−0·53	.....	.....
1244	+47	2870	27078	.....	−0·035	−0·25	.....	.....
1245	−25	14184	27089	736	−0·009	+0·75	−0·005	+0·55
1246	−18	5432	27105	.....	−0·008	+0·03	.....	.....
1247	− 7	5006	27107	737	−0·004	+0·14	−0·006	−0·03
1248	+21	3849	27134	.....	−0·019	+0·19	.....	.....
1249	+49	3062	27141	738	+0·019	+0·68	+0·016	+0·47
1250	+ 3	4097	27176	.....	+0·030	+0·13	.....	.....
1251	+54	2193	27206	.....	−0·024	−0·08	.....	.....
1252	+11	3954	27263	.....	+0·002	−0·03	.....	.....
1253	+44	3234	27347	742	−0·031	+0·22	−0·074	−0·11
1254	+10	4043	27354	741	−0·010	+0·02	−0·010	−0·27
1255	+18	4240	27391	743	−0·017	0·00	−0·005	−0·18
1256	+25	3972	27402	.....	−0·030	+0·51	.....	.....
1257	−29	16546	27412	.....	+0·029	+1·25	.....	.....
1258	+ 7	4252	27458	.....	−0·020	+0·21	.....	.....
1259	+ 8	4236	27470	745	−0·003	+0·13	+0·001	−0·20
1260	− 3	4742	27532	1519	+0·031	+0·43	+0·001	+0·26
1261	−24	15668	27542	.....	+0·039	+0·11	.....	.....
1262	+34	3778	27561	.....	−0·047	+0·34	.....	.....

Cat. No.	B. D. or C. D. No.	G. C. No.	FK3 No.	O – G. C. Δα	O – G. C. Δδ	O – FK3 Δα	O – FK3 Δδ
	°			s	″	s	″
1263	− 8 5154	27562	.....	+0·017	−0·24	.....	.....
1264	+40 3931	27564	.....	−0·016	+0·05	.....	.....
1265	+ 6 4357	27587	749	+0·006	−0·08	+0·006	−0·42
1266	+58 2013	27635	.....	−0·011	+0·61	.....	.....
1267	+19 4229	27672	752	−0·008	−0·12	0·000	−0·39
1268	+10 4126	27680	.....	−0·009	+0·34	.....	.....
1269	+ 0 4375	27681	.....	+0·013	+0·48	.....	.....
1270	+22 3873	27688	.....	−0·017	+0·27	.....	.....
1271	−28 16355	27763	753	+0·029	+0·90	+0·033	+0·70
1272	−29 3872	27820	.....	+0·006	−0·07	.....	.....
1273	−21 5609	27840	.....	−0·035	−0·01	.....	.....
1274	−27 14515	27842	.....	+0·040	+0·17	.....	.....
1275	+19 4277	27868	.....	+0·002	−0·08	.....	.....
1276	+47 3004	27869	.....	−0·019	−0·15	.....	.....
1277	− 4 5013	27880	.....	0·000	−0·13	.....	.....
1278	+35 3959	27904	.....	−0·014	−0·22	.....	.....
1279	+61 1970	27911	.....	−0·073	−0·14	.....	.....
1280	+ 8 4344	27929	.....	+0·033	+0·71	.....	.....
1281	+84 451	27964	Nν	−0·076	+0·25	+0·036	+0·10
1282	− 1 3911	28010	756	+0·005	+0·15	+0·007	+0·03
1283	−13 5608	28035	.....	−0·016	−0·20	.....	.....
1284	+67 1235	28070	.....	−0·049	0·00	.....	.....
1285	+51 2796	28077	.....	−0·041	−0·09	.....	.....
1286	+ 4 4395	28148	.....	+0·027	−0·14	.....	.....
1287	−12 5685	28200	761	−0·006	−0·06	−0·008	−0·14
1288	−19 5776	28233	.....	+0·006	−0·36	.....	.....
1289	+34 3967	28242	.....	−0·055	+0·10	.....	.....
1290	− 6 5451	28278	.....	−0·032	−0·03	.....	.....
1291	+14 4263	28288	.....	+0·012	−0·17	.....	.....
1292	−15 5629	28295	762	−0·020	−0·08	−0·023	−0·13
1294	+39 4159	28338	765	−0·068	−0·08	−0·064	−0·24
1295	+42 3721	28364	.....	−0·022	−0·17	.....	.....
1296	−29 17049	28394	1532	+0·007	+0·14	+0·017	−0·38
1297	+16 4259	28435	.....	−0·005	+0·19	.....	.....
1298	−18 5685	28442	.....	+0·010	−0·47	.....	.....
1299	−26 15036	28451	.....	+0·018	+0·10	.....	.....
1300	+56 2421	28456	.....	−0·036	−0·27	.....	.....
1301	+ 7 4477	28466	.....	0·000	−0·22	.....	.....
1302	−22 5442	28496	.....	−0·011	+0·19	.....	.....
1303	−10 5423	28563	1536	+0·012	+0·08	+0·019	−0·06
1304	+48 3154	28569	.....	−0·040	−0·08	.....	.....
1305	+72 957	28583	1538	−0·058	−0·20	−0·028	−0·48
1306	+10 4321	28593	768	+0·003	−0·02	+0·006	−0·28
1307	+ 4 4486	28614	1537	−0·002	+0·10	−0·012	−0·04
1308	+83 588	28690	.....	−0·247	+0·05	.....	.....
1309	+14 4369	28709	771	−0·024	−0·41	−0·028	−0·60
1310	+20 4658	28740	1539	+0·024	−0·50	+0·019	−0·59
1311	+23 4084	28741	.....	−0·007	−0·11	.....	.....
1312	+12 4411	28743	.....	+0·028	+0·46	.....	.....
1313	− 5 5335	28747	.....	+0·025	+0·12	.....	.....

Cat. No.	B. D. or C. D. No.		G. C. No.	FK3 No.	O – G. C. Δα	O – G. C. Δδ	O – FK3 Δα	O – FK3 Δδ
	°				s	″	s	″
1314	+15	4222	28780	774	−0·045	−0·27	−0·044	−0·48
1315	+78	716	28803	.....	+0·057	−0·54	.....	.....
1316	+31	4181	28827	.....	−0·039	+0·29	.....	.....
1317	+44	3541	28846	777	−0·048	+0·14	−0·060	−0·03
1318	+19	4501	28917	.....	−0·024	−0·21	.....	.....
1319	−25	15018	28929	779	+0·038	−0·02	+0·025	−0·22
1320	+33	4018	28959	780	−0·029	−0·15	−0·016	−0·46
1321	+52	2799	28975	1544	−0·060	+0·55	−0·034	+0·38
1322	−10	5506	28978	781	+0·022	+0·26	+0·014	+0·10
1323	+ 5	4613	28986	.....	+0·004	−0·20	.....	.....
1324	+27	3868	29001	.....	+0·014	+0·25	.....	.....
1325	−26	15282	29018	.....	−0·008	+0·60	.....	.....
1326	+81	718	29019	Nk	−0·148	−0·12	−0·038	−0·25
1327	− 1	4057	29025	1545	+0·043	−0·02	+0·033	−0·10
1328	−13	5773	29057	.....	+0·013	−0·03	.....	.....
1329	−21	5844	29060	.....	−0·028	−0·48	.....	.....
1330	+43	3739	29066	.....	−0·038	−0·36	.....	.....
1331	+63	1663	29069	.....	−0·026	+0·53	.....	.....
1332	− 9	5598	29109	1547	−0·011	−0·18	−0·015	−0·35
1333	+36	4314	29190	.....	−0·047	+0·55	.....	.....
1334	+13	4572	29201	.....	+0·001	+0·33	.....	.....
1335	−16	5741	29245	1548	+0·006	+0·41	+0·006	+0·40
1336	+40	4364	29251	788	+0·003	−0·07	+0·003	−0·46
1337	+ 3	4466	29252	.....	+0·016	−0·12	.....	.....
1338	+21	4424	29267	1549	−0·009	−0·57	−0·015	−0·66
1339	+45	3364	29354	.....	−0·043	−0·50	.....	.....
1340	+56	2523	29386	.....	+0·054	+0·02	.....	.....
1341	+67	1283	29401	.....	+0·021	+0·31	.....	.....
1342	− 0	4161	29480	1533	+0·046	+0·12	+0·028	−0·49
1343	+26	4073	29491	.....	+0·036	−0·03	.....	.....
1344	+30	4318	29502	.....	−0·018	−0·19	.....	.....
1345	+15	4340	29530	.....	+0·019	+0·02	.....	.....
1346	−21	5933	29543	.....	+0·032	−0·41	.....	.....
1347	+ 6	4754	29548	.....	+0·028	+0·72	.....	.....
1348	−11	5538	29571	794	0·000	−0·02	0·000	−0·10
1349	+86	319	29620	.....	−0·335	−0·24	.....	.....
1350	+29	4348	29661	797	−0·026	−0·09	−0·020	−0·25
1351	− 6	5720	29714	.....	+0·011	−0·12	.....	.....
1352	+ 4	4635	29735	800	+0·007	+0·09	+0·001	−0·16
1353	+24	4357	29744	.....	−0·038	−0·21	.....	.....
1354	−18	5903	29781	.....	+0·024	+0·52	.....	.....
1355	+10	4516	29821	.....	−0·023	+0·21	.....	.....
1356	+43	3877	29823	.....	+0·008	+0·03	.....	.....
1357	+37	4271	29847	.....	−0·043	+0·25	.....	.....
1358	+61	2111	29848	803	−0·042	−0·15	−0·027	−0·25
1359	+52	2913	29868	1560	−0·021	+0·29	−0·014	+0·06
1360	+ 3	4551	29904	.....	−0·021	−0·39	.....	.....
1361	+19	4691	29914	804	−0·005	−0·16	−0·006	−0·27
1362	−13	5923	29957	1562	+0·031	+0·69	+0·022	+0·70
1363	− 4	5446	29993	.....	+0·036	+0·05	.....	.....

Cat. No.	B. D. or C. D. No.		G. C. No.	FK3 No.	O – G. C. Δα	O – G. C. Δδ	O – FK3 Δα	O – FK3 Δδ
	°				s	″	s	″
1364	+18	4794	30023	.....	+0·010	+0·16	.....	.....
1365	+ 7	4696	30060	1564	+0·015	−0·02	−0·008	0·00
1366	−19	6107	30095	.....	+0·031	+0·54	.....	.....
1367	+69	1173	30118	809	−0·051	+0·23	−0·039	0·00
1368	+34	4436	30117	.....	+0·014	+0·79	.....	.....
1369	− 6	5770	30137	808	+0·005	−0·04	−0·004	−0·19
1370	−25	15479	30153	.....	−0·003	+0·46	.....	.....
1371	+22	4431	30211	.....	+0·002	−0·34	.....	.....
1372	+49	3562	30253	.....	−0·024	+0·09	.....	.....
1373	+11	4613	30259	.....	+0·046	+0·25	.....	.....
1374	− 8	5701	30268	1569	+0·006	+0·09	−0·002	−0·03
1375	+61	2169	30302	.....	−0·048	+0·28	.....	.....
1376	−17	6340	30320	812	−0·005	0·00	−0·018	−0·06
1377	+59	2409	30363	.....	−0·034	+0·23	.....	.....
1378	+ 0	4770	30377	.....	+0·009	−0·33	.....	.....
1379	+45	3637	30390	.....	−0·056	−0·53	.....	.....
1380	+ 6	4889	30414	.....	−0·037	−0·10	.....	.....
1381	+ 9	4891	30431	815	+0·011	−0·18	+0·005	−0·36
1382	+35	4626	30475	1571	−0·056	−0·04	−0·051	−0·41
1383	− 2	5631	30482	.....	+0·022	−0·05	.....	.....
1384	−16	5943	30491	819	−0·016	+0·17	−0·023	+0·10
1385	+16	4598	30502	.....	+0·033	−0·48	.....	.....
1386	−27	15639	30552	.....	+0·014	+1·64	.....	.....
1387	+40	4648	30566	.....	−0·018	+0·02	.....	.....
1388	−23	17135	30585	1576	+0·035	−0·22	+0·011	−0·29
1389	−14	6149	30631	1577	−0·010	+0·16	−0·018	+0·02
1390	+54	2638	30634	.....	−0·010	−0·11	.....	.....
1391	+31	4577	30677	.....	+0·002	−0·99	.....	.....
1392	+78	768	30681	.....	−0·063	−0·54	.....	.....
1393	+20	5046	30710	1579	+0·025	−0·19	+0·024	−0·28
1394	+11	4696	30719	.....	+0·001	−0·10	.....	.....
1395	+65	1691	30745	.....	−0·085	−0·16	.....	.....
1396	+ 3	4644	30747	.....	+0·059	+0·25	.....	.....
1397	− 5	5674	30755	1580	−0·005	+0·09	−0·002	−0·06
1398	−18	6056	30816	.....	+0·023	−0·08	.....	.....
1399	+ 9	4975	30868	.....	+0·014	+0·06	.....	.....
1400	− 1	4242	30872	.....	+0·001	−0·46	.....	.....
1401	− 1	4246	30896	827	−0·009	−0·23	−0·016	−0·36
1402	+28	4284	30899	.....	−0·007	−0·21	.....	.....
1403	−22	5833	30927	.....	+0·014	+0·15	.....	.....
1404	+17	4693	30945	.....	−0·034	−0·13	.....	.....
1405	+45	3813	30985	.....	−0·114	+0·45	.....	.....
1406	+ 5	4961	31013	834	+0·006	−0·31	+0·007	−0·70
1407	−12	6196	31021	.....	+0·003	+0·05	.....	.....
1408	+57	2475	31044	836	+0·004	+0·49	+0·014	+0·33
1409	−26	16033	31075	.....	+0·005	+0·83	.....	.....
1410	−16	6046	31109	1582	−0·031	−0·30	+0·15	0·37
1411	+ 3	4687	31117	.....	+0·003	+0·50	.....	.....
1412	+21	4719	31120	.....	−0·005	−0·38	.....	.....
1413	+42	4333	31127	.....	−0·028	−0·90	.....	.....

Cat. No.	B. D. or C. D. No.		G. C. No.	FK3 No.	O – G. C. Δα	O – G. C. Δδ	O – FK3 Δα	O – FK3 Δδ
	°				s	″	s	″
1414	− 8	5845	31152	840	+0·037	−0·12	+0·026	−0·14
1415	− 6	5960	31163	.....	+0·004	−0·02	.....	.....
1416	+12	4797	31171	.....	+0·040	−0·01	.....	.....
1417	+62	2059	31205	.....	−0·043	+0·07	.....	.....
1418	+37	4537	31210	.....	−0·055	−0·23	.....	.....
1419	+85	383	31223	Nξ	−0·257	−0·24	−0·220	−0·21
1420	+56	2755	31235	.....	−0·013	+0·25	.....	.....
1421	+30	4685	31244	.....	+0·029	+0·46	.....	.....
1422	− 2	5741	31257	842	+0·022	+0·47	+0·009	+0·36
1423	+51	3358	31310	844	+0·005	+0·10	+0·008	−0·01
1424	+50	3706	31333	.....	−0·015	+0·68	.....	.....
1425	+17	4746	31338	1586	+0·023	−0·41	+0·015	−0·72
1426	+ 8	4874	31408	1588	+0·014	+0·26	+0·007	+0·05
1427	+26	4439	31415	1589	−0·020	+0·03	−0·020	−0·05
1428	−11	5850	31440	1591	+0·007	+0·14	−0·005	+0·03
1429	− 3	5460	31462	.....	+0·036	−0·60	.....	.....
1430	−11	5855	31468	.....	+0·005	−0·33	.....	.....
1431	+39	4871	31488	.....	−0·010	−0·33	.....	.....
1432	− 0	4384	31534	850	−0·007	−0·07	−0·020	−0·28
1433	−18	6154	31540	.....	+0·008	−0·16	.....	.....
1434	+49	3903	31556	.....	−0·040	+0·20	.....	.....
1435	+23	4576	31582	.....	0·000	−0·08	.....	.....
1436	− 8	5912	31593	.....	−0·011	+0·40	.....	.....
1437	+13	4971	31655	.....	−0·008	−0·09	.....	.....
1438	+10	4797	31664	855	+0·002	−0·12	−0·006	−0·27
1439	+30	4771	31668	.....	−0·047	+0·44	.....	.....
1440	+ 4	4896	31692	.....	+0·002	−0·08	.....	.....
1441	+29	4741	31706	857	−0·006	+0·47	−0·008	+0·32
1442	+18	5046	31753	1596	−0·004	−0·27	−0·003	−0·53
1443	+ 6	5060	31772	.....	+0·030	−0·07	.....	.....
1444	+22	4709	31776	859	+0·013	−0·06	+0·008	−0·27
1445	−20	6486	31794	1597	+0·002	+0·39	−0·010	+0·38
1446	− 2	5826	31796	1598	+0·025	−0·39	+0·004	−0·76
1447	−14	6346	31802	.....	+0·010	+0·12	.....	.....
1448	−26	16324	31806	.....	+0·007	−0·50	.....	.....
1449	+82	703	31855	.....	−0·095	−0·45	.....	.....
1450	+65	1814	31857	863	−0·021	+0·26	+0·004	+0·12
1451	+25	4828	31876	.....	+0·023	+0·02	.....	.....
1452	− 8	5968	31903	864	+0·020	−0·10	+0·005	−0·11
1453	+67	1475	31921	.....	−0·017	−0·44	.....	.....
1454	−16	6173	31943	866	−0·025	+0·44	−0·038	+0·42
1455	−17	6619	31944	.....	+0·007	+0·66	.....	.....
1456	+36	4956	31964	1600	−0·051	−0·27	−0·045	−0·58
1457	+55	2850	31986	.....	+0·006	−0·10	.....	.....
1458	+11	4904	31991	.....	+0·002	+0·05	.....	.....
1459	+83	640	31999	No	−0·088	−0·08	+0·136	−0·19
1460	−30	19370	32000	867	−0·031	+0·55	−0·051	+0·36
1461	+ 3	4799	32002	.....	+0·007	+0·19	.....	.....
1462	+19	5036	32003	.....	−0·015	+0·10	.....	.....
1463	+51	3514	32039	.....	+0·026	+0·42	.....	.....

Cat. No.	B. D. or C. D. No.		G. C. No.	FK3 No.	O – G. C. Δα	O – G. C. Δδ	O – FK3 Δα	O – FK3 Δδ
	°				s	″	s	″
1464	− 0	4443	32065	.....	+0·028	−0·03	.....	.....
1465	− 7	5910	32079	.....	+0·046	+0·56	.....	.....
1466	+41	4664	32095	869	−0·035	−0·34	−0·036	−0·63
1467	−21	6354	32105	.....	+0·016	+0·03	.....	.....
1468	+62	2160	32119	.....	−0·062	−0·49	.....	.....
1469	+27	4480	32135	870	−0·019	+0·47	−0·022	+0·17
1470	+14	4926	32149	871	+0·013	−0·20	+0·004	−0·42
1471	+34	4847	32202	.....	−0·031	+0·05	.....	.....
1472	+19	5060	32207	.....	−0·006	−0·18	.....	.....
1473	+29	4862	32215	.....	+0·031	−0·52	.....	.....
1474	+45	4149	32216	.....	−0·059	−0·03	.....	.....
1475	+ 7	4981	32252	.....	+0·016	−0·31	.....	.....
1476	+42	4592	32288	.....	+0·008	−0·37	.....	.....
1477	− 6	6170	32346	1607	+0·026	−0·22	+0·012	−0·34
1478	−11	6032	32354	.....	−0·004	−0·78	.....	.....
1479	+24	4737	32368	.....	−0·015	+0·21	.....	.....
1480	− 4	5852	32369	.....	+0·030	+0·43	.....	.....
1481	+ 2	4648	32415	878	+0·002	−0·39	−0·008	−0·58
1482	−18	6283	32467	.....	+0·022	−0·48	.....	.....
1483	+ 4	4997	32491	.....	+0·047	+0·10	.....	.....
1484	+37	4817	32510	1610	+0·019	+0·19	+0·007	+0·17
1485	+59	2710	32538	.....	−0·020	+0·29	.....	.....
1486	+11	4993	32543	.....	+0·020	+0·04	.....	.....
1487	−21	6420	32594	.....	+0·035	+0·11	.....	.....
1488	+ 0	4998	32620	884	+0·007	−0·22	+0·003	−0·42
1489	−12	6496	32648	.....	+0·023	+0·37	.....	.....
1490	−26	16654	32654	.....	−0·028	+0·04	.....	.....
1491	+15	4830	32665	1615	−0·018	+0·57	−0·042	+0·22
1492	− 1	4443	32672	.....	+0·053	−0·25	.....	.....
1493	+86	344	32680	.....	−0·099	+0·03	.....	.....
1494	+27	4566	32710	.....	−0·002	+0·06	.....	.....
1495	+ 6	5168	32732	.....	+0·022	−0·49	.....	.....
1496	+77	909	32733	.....	−0·009	+0·11	.....	.....
1497	+52	3469	32743	.....	−0·016	+0·33	.....	.....
1498	+21	4952	32759	.....	+0·006	+0·08	.....	.....
1500	+66	1619	32796	.....	−0·070	+0·14	.....	.....
1501	+ 1	4744	32818	.....	+0·022	−0·33	.....	.....
1502	+43	4508	32831	.....	+0·018	−0·38	.....	.....
1503	−15	6464	32843	.....	−0·031	+0·26	.....	.....
1504	+49	4180	32864	.....	−0·013	+0·35	.....	.....
1505	+73	1047	32872	.....	−0·053	+0·17	.....	.....
1506	+76	928	32875	893	+0·041	−0·12	+0·145	−0·28
1507	+ 4	5035	32879	892	+0·010	−0·10	+0·005	−0·26
1508	+36	5074	32892	.....	−0·020	+0·01	.....	.....
1509	− 8	6166	32893	.....	−0·001	−0·17	.....	.....
1510	− 3	5707	33029	1623	+0·018	−0·01	+0·012	−0·11
1511	−28	18353	33050	896	+0·006	+0·22	−0·014	+0·07
1512	−28	18361	33055	.....	+0·014	−0·39	.....	.....
1513	−22	6199	33058	1624	−0·010	+0·42	−0·019	+0·26
1514	+63	2064	33089	.....	−0·104	−0·58	.....	.....

Cat. No.	B. D. or C. D. No.		G. C. No.	FK3 No.	O – G. C. $\Delta\alpha$	O – G. C. $\Delta\delta$	O – FK3 $\Delta\alpha$	O – FK3 $\Delta\delta$
	°				s	″	s	″
1515	+ 8	5127	33094	.....	+0·007	+0·25	.....	.....
1516	+ 2	4725	33112	.....	+0·005	−0·10	.....	.....
1517	+18	5231	33119	898	0·000	+0·16	−0·004	−0·03
1518	+82	743	33205	Nπ	−0·068	−0·13	+0·003	−0·36
1519	+21	4999	33208	1628	+0·026	+0·16	+0·024	−0·12
1520	−16	6394	33242	.....	+0·001	+0·03	.....	.....
1521	+34	5039	33243	.....	+0·002	−0·28	.....	.....
1522	+54	3082	33257	.....	−0·031	+0·39	.....	.....
1523	+ 6	5227	33262	902	+0·001	−0·17	−0·006	−0·30
1524	− 6	6335	33273	.....	−0·008	−0·38	.....	.....
1525	+ 7	5121	33341	.....	+0·025	−0·33	.....	.....