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**RESULTS OF OBSERVATIONS MADE WITH THE
REVERSIBLE MERIDIAN CIRCLE
1956-1961**

CATALOGUE OF 3753 AGK3 REFERENCE STARS

CORRECTIONS TO 930 FK3 STARS

E. G. Woolsey

Price \$1.25

Results of Observations Made with the Reversible Meridian Circle 1956-1961

E. G. WOOLSEY

ABSTRACT: This publication contains the results of observations of 3753 AGK reference stars, which form the Ottawa contribution to the cooperative re-observation of the AG stars. The published positions were determined differentially using the 930 FK3 stars whose declinations are greater than $-12^{\circ}30'$; the positions used for these stars were the FK3R positions.

The catalogue also gives the relative corrections for the fundamental stars in the form observed minus FK3R position.

The program stars were each observed twice: the probable error of a single observation is $^{\circ}21$ in right ascension and $^{\circ}27$ in declination.

RÉSUMÉ: Cette publication renferme les résultats de l'observation de 3,753 étoiles de références AGK qui constituent la contribution d'Ottawa à la ré-observation en coopération des étoiles AG. Les positions publiées ont été déterminées de façon différentielle à l'aide de 930 étoiles FK3 dont les déclinaisons sont supérieures à $-12^{\circ}30'$; les positions utilisées pour ces étoiles ont été celles des étoiles FK3R.

Le catalogue donne aussi les corrections relatives pour les étoiles fondamentales sous la forme observée moins la position des étoiles FK3R.

Les étoiles au programme ont été observées chacune deux fois. L'erreur probable d'une seule observation est de $^{\circ}21$ en ascension droite et de $^{\circ}27$ en déclinaison.

INTRODUCTION

The Ninth General Assembly of the International Astronomical Union, held in Dublin, Ireland, in 1955 approved a plan for new photographic observations of the AGK stars in the northern sky, and for meridian circle observations of the reference stars to assure their agreement with the fundamental catalogue.

The fundamental catalogue used in the reduction was the FK3 revised. The adopted positions of the fundamental stars were obtained from "Apparent Places of Fundamental Stars," with the corrections from *Veröffentlichungen des Astronomischen Rechen-Instituts*, Heidelberg, Nr 6, 1957, and Nr 8, 1960, applied to the individual star observations.

The observations for this catalogue were commenced on February 13, 1956, and were completed September 29, 1961. All observations were made by E. G. Woolsey and R. W. Tanner; they were assisted in the reductions by G. A. Brealey, M. O. Wheeler, E. G. Garland, Miss O. Boshko, Mrs. B. Crawford and a number of summer assistants.

The catalogue is divided into three parts. Part I contains the positions of the AGK3 reference stars. The star numbers used are those provided by F. P. Scott of the U.S. Naval Observatory who coordina-

ted this program. Part II contains the AGK3 reference stars and presents the differences between the observed values and the AGK2 catalogue in the form observed minus AGK2, and is given for the convenience of anyone wishing to compare catalogues or make proper motion studies. Part III contains the observed corrections to the fundamental catalogue in the form observed minus FK3 Revised. The stars in Part III are numbered using the FK4 numbering system. This is the same as the FK3 except for the high polars which have been assigned numbers in place of Greek and Roman letters.

The probable error of a single observation was calculated for each star. The average of these probable errors for all stars is $^{\circ}21$ in right ascension and $^{\circ}27$ in declination. The same value of probable error of a single observation was obtained for both the reference and program stars.

Although these results are published here, the individual observations have been forwarded to F. P. Scott at the U.S. Naval Observatory, where they will be combined with the observations from other observatories to produce a catalogue which will be known as the "AGK3R."

OBSERVING PLAN

As two observations were to be secured on each of the program stars, it was planned that each star would be observed once in each clamp and once by each observer. Observations were to be taken at all declinations and an effort was made to observe about thirty well-distributed FK3 stars each night. All the stars published in "Apparent Places of Fundamental Stars" that lie north of $-12^{\circ}30'$ were used as reference stars. These were divided as follows:

$-12^{\circ}30'$ to $+12^{\circ}30'$	Time stars
over 80°	High azimuth stars
75° to 80°	75° azimuth stars
60° to 75°	Refraction stars
$12^{\circ}30'$ to 60°	Comparison stars

An average night's work covered about 6 hours of right ascension and included: (a) four azimuth stars, one at upper and one at lower culmination, from each of the two groups; (b) four refraction stars, two at upper, two at lower; (c) ten time stars (though a minimum of seven for a night was acceptable); (d) the comparison stars distributed at least one in each 10-degree zone of declination. The program stars were observed at upper culmination only.

Collimation, azimuth marks, level and nadir points were read before and after the night's observ-

ing, and in addition, level and nadir readings were repeated at two hourly intervals. Barometer, barograph, external thermometer and thermograph and the observing room thermograph were read before and after observing. Thermometer readings at the telescope were taken several times per hour.

The telescope was reversed in its pivots on the first day of each month except November. At the same time the mean of contacts and strip width were determined. The brighter stars were screened down to sixth magnitude and a reversing prism was used in all observations.

For this program, the standard deviation, σ , of the residuals, observed minus FK3 Revised, were calculated in both right ascension and declination for each night's work. Nights on which either of these values of σ exceeded $0^{\circ}050$ sec δ in right ascension or $0''.75$ in declination, were rejected. These values were selected as approximately twice the expected mean error of a single observation. When the difference between the two observations on a program star exceeded $0^{\circ}100$ sec δ in right ascension or $1''.50$ in declination, the star was re-observed. As was anticipated this was required for about 8 per cent of the stars.

RIGHT ASCENSION

The right ascensions were calculated using Bessel's formula:

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

in the manner described in Vol. XV, No. 3. The data from each night were examined by forming the residuals, observed minus FK3 Revised. It had been noted during observation that on several nights these residuals followed a curve as though there were an error in collimation and that the individual values of n as determined for the polars over 80 degrees differed from those between 75° and 80° . However the average of the higher polars taken above and below pole and of the 75° to 80° polars, above and below pole, gave the same value. It was decided to leave any adjustment until the program was completed.

On a number of nights the residuals (O-FK3R) appeared to be very high for the stars observed near the zenith. These nights were examined and in all cases a correction to the collimation improved the residuals for all stars. In our past publications the mean residuals followed a similar curve. In order to determine whether the residuals should be reduced by a clamp correction or a night correction, the residuals for each night were correlated with the curve

$$(O-C)\cos\delta = k(1-\sin\delta - \cos\delta)$$

where k is the correction for collimation.

On 43 of the 283 nights the correlation factor exceeded .50. The value k did not appear to have any relation to clamp or observer, but appeared to make major changes at times of interruption such as change of clamp or servicing of the instrument. It was decided that the best way to apply a correction was as a night correction of $k(1-\sin\delta - \cos\delta)$, where k was determined by a least-squares solution of the residuals of all the FK3 stars observed.

The corrected values (O-FK3R) $\cos\delta$ were then examined for difference of clamp and observer for each three hours of right ascension and ten degrees of declination. The weights are derived by the usual probability formula $mn/(m+n)$, where m and n are the number of observations in each clamp. Table I shows the difference by clamp, and Table II by observer. These tables indicate that there is no justifiable correction for clamp or observer.

Table V gives the values (O-FK3R) $\cos\delta$, for all observations for each three hours of right ascension and ten degrees of declination. The weights in this table are the number of observations.

Satisfactory agreement between observation and reference catalogue was reached except for the right

ascension coordinate for stars with declinations between 80° and the pole. Examination of mean errors led us to believe that this discrepancy was due to the small number of observations rather than an instrumental error. No adjustment was made in the results.

Tables VII and VIII show the differences in right ascension with culmination, and weights dependent on m and n as before. These differences are considered to be negligible.

Tables XVII and XVIII show the attachment to the FK3 Revised values. The weights are the

number of stars compared.

A least-squares solution of the residuals (O-FK3R) for the 311 time stars gave:

$$(O-FK3R)_\alpha = .0020 \cos \alpha - .0007 \sin \alpha - .0004 \cos 2\alpha - .0020 \sin 2\alpha.$$

All values have the mean error $\pm .0009$.

Since all program stars have been observed at upper culmination, no effort has been made to combine observations of reference stars at upper and lower culmination. The values are given separately to assist anyone in applying additional corrections.

DECLINATIONS

All observations were corrected for refraction, division error, and reduction to the meridian. No correction for inclination of the wires was necessary since any observation not made symmetrically was discarded. The refraction table of Vol. XV, No. 2 (essentially Bessel's) was used, the auxiliary tables having been adapted from their logarithmic form.

A constant value of $45^\circ 23' 39''.00$ was first assumed for the latitude. The resulting apparent places of all the FK3 stars were compared with the FK3 revised positions. A $\Delta\phi$ was calculated to make the O-FK3R in declination vanish in the average for the night, thus allowing for a variation in latitude. Where the standard deviation exceeded $0''.75$ (for all FK3 stars) the night was excluded. An examination of the residuals (O-FK3R) revealed that on many nights the residuals varied with the zenith distance. This could be explained either as a flexure correction, or a refraction correction.

Each night's work was examined using the curve (O-FK3R) = $\Delta\phi + kR$, where R is the refraction value taken from the tables, and varies with zenith distances. The values of k do not appear to have any relation to clamp or observer. Owing to the uncertainty of observations made at large zenith distances the adopted $\Delta\phi$ was based on stars whose declinations lie between the equator and the pole. The values of $\Delta\phi$ and k , determined by a least-squares solution of the residuals for the FK3 stars on each night's work,

have been applied as a night correction.

These corrected values (O-FK3R) were examined for differences of clamp and observer for each three hours of right ascension and ten degrees of declination. The weights were derived by the usual probability formula $mn/(m+n)$. Table III shows the differences by clamp and Table IV by observer.

Table VI gives the values (O-FK3R) for all observations for each three hours of right ascension and ten degrees of declination. The weights in this table are number of observations. These show satisfactory agreement between the observations and the reference catalogue.

Tables VII and IX show differences in declination with culmination. Table IX shows a strong variation with declination. However Table XVIII, which shows $\Delta\delta_s$, agrees with the fundamental catalogue except for the stars at lower culmination.

The past observational programs have always shown a change in the star residuals when the zenith distance exceeds about 60° , which is approximately where the roof meets the walls of the observing room. For this reason the program stars were observed at upper culmination only, and no correction based on Table IX has been applied.

Table XII shows the attachment to the FK3 Revised values. The weights are the number of stars compared. Again no effort has been made to combine observations made at upper and lower culmination.

PROGRAM STARS

All program stars were treated in exactly the same manner as the FK3R stars. To demonstrate the agreement of the program stars with the fundamental catalogue a number of additional tables are provided.

Tables XII, XIII and XIV tabulate the average differences observed minus AGK2. No proper motions

have been applied. Tables XV and XVI give the mean error of a single observation for the AGK3R stars. In order that a comparison of the mean errors for a single observation may be compared, Tables X and XI give these same values for the FK3R stars.

TABLE I. - Clamp differences in Right Ascension (C1W-C1E)cos δ .
Unit #001, weight mn/(m+n)

R.A. Declination	0h to 3h		3h to 6h		6h to 9h		9h to 12h		12h to 15h		15h to 18h		18h to 21h		21h to 24h		Mean	
	Val.	Wt.	Val.	Wt.	Val.	Wt.	Val.	Wt.	Val.	Wt.	Val.	Wt.	Val.	Wt.	Val.	Wt.	Val.	Wt.
70 $\dot{\circ}$ to 60 $\dot{\circ}$	-10	10	-2	8	-7	13	2	13	-2	9	-12	9	-11	6	-7	11	-6	79
80 $\dot{\circ}$ to 70 $\dot{\circ}$	7	10	-9	9	-8	13	-2	8	-2	13	11	11	-1	17	-10	17	-2	98
90 $\dot{\circ}$ to 80 $\dot{\circ}$	9	10	6	11	9	5	18	10	7	6	7	4	-3	10	-4	11	6	68
80 $\dot{\circ}$ to 90 $\dot{\circ}$	6	6	4	8	12	6	3	14	10	9	10	6	6	13	13	12	8	74
70 $\dot{\circ}$ to 80 $\dot{\circ}$	5	12	-8	10	13	15	0	6	3	16	4	19	0	15	-3	16	2	111
60 $\dot{\circ}$ to 70 $\dot{\circ}$	-10	11	15	8	2	16	7	21	0	13	0	15	4	6	-3	13	2	103
50 $\dot{\circ}$ to 60 $\dot{\circ}$	-1	15	13	10	-9	8	-16	12	-10	14	-6	19	-6	13	-6	10	-5	103
40 $\dot{\circ}$ to 50 $\dot{\circ}$	-8	15	-17	21	-8	22	0	21	-1	22	1	29	-1	12	-7	16	-5	159
30 $\dot{\circ}$ to 40 $\dot{\circ}$	-1	15	-4	15	-8	14	-8	25	4	22	-10	18	0	20	-2	20	-4	148
20 $\dot{\circ}$ to 30 $\dot{\circ}$	5	21	-3	20	5	30	2	14	7	18	-3	24	6	24	-12	19	1	170
10 $\dot{\circ}$ to 20 $\dot{\circ}$	9	20	-8	17	1	30	5	25	3	21	1	21	2	30	-1	19	2	185
0 $\dot{\circ}$ to 10 $\dot{\circ}$	2	38	5	30	4	39	2	49	5	30	8	45	3	43	-4	38	3	311
-10 $\dot{\circ}$ to 0 $\dot{\circ}$	4	20	-12	37	-1	42	5	48	4	37	-7	36	6	53	2	44	0	317
-20 $\dot{\circ}$ to -10 $\dot{\circ}$	-7	7	0	0	-10	9	-11	8	1	8	-4	11	5	4	-7	5	-5	51
Mean	1	210	-4	205	0	261	1	273	2	238	0	267	2	268	-3	252	0	1974

TABLE II. - Differences by observer in Right Ascension (Woolsey-Tanner)cos δ .
Unit #001, weight (m+n)/mn.

R.A. Declination	0h to 3h		3h to 6h		6h to 9h		9h to 12h		12h to 15h		15h to 18h		18h to 21h		21h to 24h		Mean	
	Val.	Wt.	Val.	Wt.	Val.	Wt.	Val.	Wt.	Val.	Wt.	Val.	Wt.	Val.	Wt.	Val.	Wt.	Val.	Wt.
70 $\dot{\circ}$ to 60 $\dot{\circ}$	11	9	27	7	11	11	1	12	5	8	9	7	3	6	-3	11	7	72
80 $\dot{\circ}$ to 70 $\dot{\circ}$	6	10	-12	10	-9	12	-14	7	-2	12	-16	12	5	14	-9	16	-6	92
90 $\dot{\circ}$ to 80 $\dot{\circ}$	2	9	-7	11	4	5	-8	10	2	6	-28	4	1	11	-2	11	-4	66
80 $\dot{\circ}$ to 90 $\dot{\circ}$	-8	5	-20	7	-3	6	10	12	-15	9	-3	6	2	12	2	11	-3	69
70 $\dot{\circ}$ to 80 $\dot{\circ}$	-1	12	-8	9	-2	15	6	6	-1	16	8	19	-5	15	10	16	2	109
60 $\dot{\circ}$ to 70 $\dot{\circ}$	-11	9	9	8	2	16	12	19	4	11	9	14	-16	6	-8	11	2	95
50 $\dot{\circ}$ to 60 $\dot{\circ}$	5	13	-15	9	-2	7	-9	11	7	13	-11	17	-5	11	9	9	-3	90
40 $\dot{\circ}$ to 50 $\dot{\circ}$	1	13	-7	19	-5	20	-4	21	-3	21	-9	25	10	10	2	13	-3	141
30 $\dot{\circ}$ to 40 $\dot{\circ}$	8	14	12	14	10	13	6	23	-9	21	4	17	-1	18	-1	18	3	138
20 $\dot{\circ}$ to 30 $\dot{\circ}$	9	20	-2	19	-2	29	-3	14	2	15	0	22	11	23	-15	17	0	159
10 $\dot{\circ}$ to 20 $\dot{\circ}$	13	18	-7	15	3	28	-9	22	11	18	4	21	2	29	15	20	4	171
0 $\dot{\circ}$ to 10 $\dot{\circ}$	10	35	5	29	0	36	-1	47	-1	30	1	43	-1	39	3	35	2	294
-10 $\dot{\circ}$ to 0 $\dot{\circ}$	2	19	7	36	-1	39	1	45	-2	33	-10	35	-5	53	1	41	-1	302
-20 $\dot{\circ}$ to -10 $\dot{\circ}$	-31	5	0	0	5	8	10	8	9	8	3	10	25	4	7	4	4	48
Mean	4	191	0	194	0	245	0	258	0	223	-2	253	0	249	1	233	0	1847

TABLE III. Clamp Differences in Declination (CIW-CIE)

Unit '01, Weight mm/(m+n)

R.A. Declination	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		Mean	
	Val.	Wt.	Val.	Wt.	Val.	Wt.	Val.	Wt.	Val.	Wt.	Val.	Wt.	Val.	Wt.	Val.	Wt.	Val.	Wt.
70 ^L to 60 ^L	-3	9	1	7	20	13	-5	13	-24	8	-18	8	-1	6	22	9	1	74
80 ^L to 70 ^L	3	8	12	8	-38	11	-6	7	-1	13	0	11	21	15	-11	16	-3	91
90 ^L to 80 ^L	15	9	-27	11	-6	5	5	10	21	6	27	4	-12	10	-20	11	-4	68
80° to 90°	4	6	-23	8	-19	6	8	14	4	9	-33	6	-3	12	-2	12	-5	72
70° to 80°	34	12	16	10	-7	15	-10	7	3	15	8	18	18	14	-11	15	7	106
60° to 70°	0	11	-1	8	-1	16	-15	20	-14	13	-14	14	-8	6	-7	13	-9	101
50° to 60°	-2	15	-3	11	42	8	4	12	10	14	-12	19	-11	13	-1	10	1	101
40° to 50°	5	16	-14	21	13	22	13	21	-4	22	-15	28	-23	12	-4	15	-3	158
30° to 40°	12	15	-18	15	2	13	-13	24	5	22	-19	18	-3	20	-3	19	-5	146
20° to 30°	-1	20	-11	19	6	29	12	14	-2	17	10	23	-7	24	-5	19	0	167
10° to 20°	25	19	10	17	19	29	12	25	-12	21	11	22	6	30	8	19	10	183
0° to 10°	11	36	-13	31	4	38	-22	48	0	29	-2	44	1	41	3	37	-3	304
-10° to 0°	0	19	-15	38	12	41	5	47	5	36	-2	36	-1	53	9	43	2	312
-20° to -10°	-25	6	0	0	14	9	-10	8	-25	8	8	11	12	4	8	4	-3	50
Mean	8	201	-9	204	7	255	-2	271	-1	235	-3	262	0	263	0	243	0	1934

TABLE IV. Differences by Observer in Declination (Woolsey-Tanner)

Unit '01, Weight mm/(m+n)

R.A. Declination	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		Mean	
	Val.	Wt.	Val.	Wt.	Val.	Wt.	Val.	Wt.	Val.	Wt.	Val.	Wt.	Val.	Wt.	Val.	Wt.	Val.	Wt.
70 ^L to 60 ^L	1	8	-10	7	-23	11	-5	12	-49	7	-13	6	9	6	-37	9	-16	67
80 ^L to 70 ^L	19	9	-2	9	-11	11	-15	7	-11	11	-3	11	18	12	7	15	0	85
90 ^L to 80 ^L	2	9	21	12	26	5	28	10	33	5	-7	4	22	10	24	11	20	65
80° to 90°	-23	5	-26	8	-3	6	23	12	11	9	38	6	5	10	-23	11	1	67
70° to 80°	11	12	-16	9	-23	14	-26	6	20	16	-29	19	10	15	-28	15	-10	105
60° to 70°	6	9	1	8	-11	15	-12	18	-21	11	-1	14	-32	5	5	11	-8	92
50° to 60°	-4	13	-24	9	10	6	12	11	8	14	-1	17	-22	11	-12	9	-4	89
40° to 50°	4	13	-10	18	-11	20	3	21	16	21	3	25	12	10	-15	13	0	141
30° to 40°	14	13	20	14	23	13	0	23	13	21	10	17	11	18	-9	17	9	137
20° to 30°	34	19	13	19	2	27	5	14	10	15	-4	22	8	23	-11	18	7	157
10° to 20°	12	18	2	15	5	28	19	22	-8	18	20	22	-12	29	5	19	5	170
0° to 10°	12	33	3	30	5	36	0	46	-8	29	18	43	-12	37	-8	34	2	288
-10° to 0°	6	18	13	36	2	38	-7	42	-1	33	-1	35	-1	53	-6	40	0	297
-20° to -10°	-11	5	0	0	-15	8	-42	8	-27	8	20	10	-25	4	-10	4	-14	48
Mean	9	184	3	194	-1	238	0	254	1	219	4	251	-1	244	-7	226	1	1810

TABLE V. Observed Differences in Right Ascension (O-FK3R) $\cos \delta$ Unit $\times 001$, Weight - Number of Observations

R.A. Declination	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		Mean	
	Val.	Wt.	Val.	Wt.	Val.	Wt.	Val.	Wt.	Val.	Wt.	Val.	Wt.	Val.	Wt.	Val.	Wt.	Val.	Wt.
70 ^l to 60 ^l	-09	40	5	34	-5	52	-6	53	-6	38	-7	37	1	27	-2	47	-4	328
80 ^l to 70 ^l	-3	41	2	42	-7	55	-4	32	1	55	3	51	0	69	-6	76	-2	421
90 ^l to 80 ^l	10	40	24	47	19	22	6	45	13	27	10	18	9	45	11	46	13	290
8° to 9°	-7	27	-24	34	-14	23	-4	57	-14	41	-5	26	-5	52	-9	47	-10	307
7° to 8°	7	52	4	42	7	63	9	26	-1	70	-2	80	-7	69	-2	70	1	472
6° to 7°	19	46	5	37	11	69	8	86	4	55	4	60	-4	25	0	53	7	431
5° to 6°	0	62	-2	43	-2	34	4	52	3	56	-2	80	-2	55	-1	43	0	425
4° to 5°	-8	62	-10	88	-2	91	1	90	-8	90	-10	117	-5	51	-4	65	-6	654
3° to 4°	-10	60	-4	62	0	58	0	110	1	90	-3	75	2	80	-3	82	-2	617
2° to 3°	2	86	-3	81	-1	124	0	59	3	73	-3	100	6	101	0	81	0	705
1° to 2°	6	81	1	70	-3	122	3	102	1	88	1	89	6	125	-3	82	2	759
0° to 10°	2	162	0	125	-1	158	0	200	-2	126	1	186	9	176	3	156	2	1289
-1° to 0°	-6	83	1	158	-1	172	3	197	-1	152	-5	148	3	223	2	184	0	1317
-2° to -1°	5	28	0	0	-5	36	-9	35	-5	34	-5	44	-7	16	-4	22	-4	215
Mean	1	870	0	863	-1	1079	1	1144	-1	995	-2	1111	2	1114	0	1054	0	8230

TABLE VI. Observed Differences in Declination (O-FK3R)

Unit $\times 01$, Weight - Number of Observations

R.A. Declination	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		Mean	
	Val.	Wt.	Val.	Wt.	Val.	Wt.	Val.	Wt.	Val.	Wt.	Val.	Wt.	Val.	Wt.	Val.	Wt.	Val.	Wt.
70 ^l to 60 ^l	24	38	43	31	16	53	28	54	30	34	18	34	4	25	24	40	24	309
80 ^l to 70 ^l	8	38	-5	39	-25	50	-19	31	-16	53	-14	47	-9	63	-4	71	-10	392
90 ^l to 80 ^l	-16	38	-9	49	-21	22	-3	46	-11	26	-21	18	-13	45	-31	45	-15	289
8° to 9°	28	25	14	35	-6	23	1	55	18	41	-2	25	0	49	1	47	6	300
7° to 8°	1	50	11	42	-5	60	11	27	14	67	4	78	1	66	1	66	4	456
6° to 7°	5	45	-19	36	-5	67	-12	84	5	55	6	59	3	27	2	54	-2	427
5° to 6°	21	60	17	43	0	31	2	51	4	58	4	81	16	55	15	42	10	421
4° to 5°	3	63	17	86	8	91	5	90	1	89	2	116	9	51	7	63	6	649
3° to 4°	-5	59	06	61	11	55	1	108	-1	90	-10	75	-1	81	-4	80	-1	609
2° to 3°	-5	83	-10	80	10	120	6	59	3	70	-6	97	-16	101	-1	80	-3	690
1° to 2°	-5	78	-1	69	-3	120	-6	101	-5	88	-10	92	-2	124	-17	80	-6	752
0° to 10°	5	155	0	128	-2	157	0	197	-6	124	-8	183	0	169	-10	154	-3	1267
-1° to 0°	-6	79	-8	160	-3	170	-2	192	-12	151	6	147	1	222	0	180	-2	1301
-2° to -1°	-10	28	0	0	10	38	5	35	12	34	4	43	13	17	10	19	6	214
Mean	2	839	2	859	0	1057	0	1130	0	980	-2	1095	-1	1095	-2	1021	0	8076

TABLE VIII. Differences Above and Below Pole in Right Ascension ($U - L$) $\cos \delta$

Unit $^{\circ}$.001, Weight $mn/(m+n)$

R.A. Declination	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		Mean	
	Val.	Wt.	Val.	Wt.	Val.	Wt.	Val.	Wt.	Val.	Wt.	Val.	Wt.	Val.	Wt.	Val.	Wt.	Val.	Wt.
80° to 90°	4	16	3	19	4	11	3	24	0	16	5	11	3	24	0	22	2	142
75° to 80°	-7	10	4	18	2	21	-2	8	-2	20	0	25	-4	17	-8	15	-2	133
70° to 75°	12	12	7	2	-8	8	19	6	12	10	1	5	-11	16	-7	19	0	79
65° to 70°	18	8	15	6	10	19	0	19	-12	6	2	17	-20	5	18	6	5	87
60° to 65°	6	13	10	12	-2	10	3	13	0	16	-18	5	8	7	-8	18	1	93
Mean	6	60	6	56	3	68	3	69	0	68	0	63	-3	69	-4	81	1	534

TABLE IX. Differences Above and Below Pole in Declination

Unit $^{\circ}$.01, Weight $mn/(m+n)$

R.A. Declination	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		Mean	
	Val.	Wt.	Val.	Wt.	Val.	Wt.	Val.	Wt.	Val.	Wt.	Val.	Wt.	Val.	Wt.	Val.	Wt.	Val.	Wt.
80° to 90°	43	15	23	20	12	11	7	24	20	15	20	10	13	23	32	22	21	139
75° to 80°	-14	9	11	17	22	20	43	7	38	19	28	23	9	16	19	14	21	126
70° to 75°	1	12	-20	2	11	7	10	6	13	10	-28	5	9	15	0	18	3	74
65° to 70°	-2	8	-69	6	-13	19	-18	19	-20	5	-7	17	-38	5	-3	6	-17	84
60° to 65°	-29	13	-60	11	-44	10	-67	13	-25	15	-37	4	-24	8	-29	16	-35	90
Mean	3	57	-8	55	-1	67	-10	69	10	65	7	60	8	66	7	76	2	514

TABLE X. Mean Error of a Single Observation in Right Ascension, FK3 Stars

Unit $^{\circ}$.001, Weight - Number of Stars

R.A. Declination	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		Mean	
	Val.	Wt.	Val.	Wt.	Val.	Wt.	Val.	Wt.	Val.	Wt.	Val.	Wt.	Val.	Wt.	Val.	Wt.	Val.	Wt.
60° to 70°	24	9	31	6	22	9	22	10	26	7	24	7	29	5	19	7	24	60
70° to 80°	19	7	25	5	25	5	20	4	22	8	17	7	18	9	23	10	21	55
80° to 90°	24	3	19	4	16	2	21	4	17	3	23	3	18	4	21	3	20	26
80° to 90°	15	3	15	4	24	2	21	4	21	3	16	3	19	4	19	3	18	26
70° to 80°	18	7	18	5	19	5	19	4	17	8	21	7	20	9	20	10	19	55
60° to 70°	20	9	19	6	24	9	19	10	17	7	19	7	18	5	21	7	20	60
50° to 60°	19	10	24	9	15	5	20	8	17	8	21	11	22	9	18	8	20	68
40° to 50°	17	11	23	17	17	14	15	12	16	12	22	15	18	9	17	12	18	102
30° to 40°	20	12	23	12	20	11	18	15	17	14	19	13	15	13	16	14	18	104
20° to 30°	24	16	19	16	18	19	15	10	19	12	21	15	20	14	17	14	19	116
10° to 20°	22	14	21	15	19	14	19	14	18	13	18	14	23	16	21	12	20	112
0° to 10°	21	20	26	17	21	14	19	16	19	13	27	16	25	14	20	17	22	127
-10° to 0°	24	12	24	22	23	14	22	16	21	16	31	13	24	20	22	18	24	131
-20° to -10°	28	5	0	0	23	4	18	4	31	6	31	4	34	2	19	4	26	29
Mean	21	138	23	138	20	127	19	131	19	130	22	135	21	133	20	139	21	1071

TABLE XI. Mean Error of a Single Observation in Declination, FK3 Stars

Unit $\times 0.1$, Weight - Number of Stars

R.A. Declination	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		Mean	
	Val.	Wt.	Val.	Wt.	Val.	Wt.	Val.	Wt.	Val.	Wt.	Val.	Wt.	Val.	Wt.	Val.	Wt.	Val.	Wt.
60° to 70°	36	9	37	6	36	9	48	10	39	7	38	7	42	5	43	7	40	60
70° to 80°	38	7	42	5	47	5	45	4	47	8	44	7	45	9	37	10	43	55
80° to 90°	51	3	46	4	42	2	41	4	41	3	45	3	33	4	49	3	43	26
80° to 90°	45	3	48	4	50	2	40	4	35	3	46	3	36	4	42	3	42	26
70° to 80°	33	7	35	5	35	5	27	4	44	8	33	7	38	9	42	10	37	55
60° to 70°	36	9	41	6	38	9	41	10	37	7	36	7	42	5	48	7	40	60
50° to 60°	34	10	34	9	41	5	44	8	40	8	39	11	31	9	42	8	38	68
40° to 50°	38	11	32	17	32	14	36	12	34	12	41	15	38	9	37	12	36	102
30° to 40°	31	12	34	12	35	11	41	15	39	14	39	13	31	13	39	14	36	104
20° to 30°	39	16	31	16	33	19	41	10	39	12	37	15	37	14	41	14	37	116
10° to 20°	33	14	31	15	39	14	39	14	36	13	40	14	36	16	37	12	36	112
0° to 10°	40	20	40	17	37	14	40	16	39	13	40	16	33	14	38	17	38	127
-10° to 0°	41	12	41	22	44	14	45	16	41	16	44	13	45	20	43	18	43	131
-20° to -10°	45	5	0	0	45	4	42	4	36	6	39	4	42	2	34	4	40	29
Mean	38	138	37	138	37	127	41	131	39	130	40	135	38	133	40	139	39	1071

TABLE XII. Differences in Right Ascension (O-AGK2)

Unit $\times 0.01$, Weight - Number of Stars

R.A. Declination	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		Mean	
	Val.	Wt.	Val.	Wt.	Val.	Wt.	Val.	Wt.	Val.	Wt.	Val.	Wt.	Val.	Wt.	Val.	Wt.	Val.	Wt.
80° to 90°	-221	7	-95	14	-150	9	118	3	-64	12	107	7	-254	10	-267	6	-120	68
70° to 80°	-71	18	-6	18	-12	24	-135	21	-59	26	-93	22	-45	30	-26	22	-55	181
60° to 70°	-12	23	12	34	-20	34	-16	45	-19	42	-28	37	-30	36	-9	30	-16	281
50° to 60°	-12	43	-9	46	-30	39	-21	57	-33	58	-27	47	-7	38	-9	35	-19	363
40° to 50°	1	56	-5	47	-34	55	-26	65	-44	64	-40	59	-25	49	-10	46	-24	441
30° to 40°	4	67	-8	46	-37	52	-38	59	-27	74	-33	57	-8	50	-21	54	-21	459
20° to 30°	0	59	-18	46	-28	52	-24	77	-39	70	-30	63	-3	54	-3	62	-19	483
10° to 20°	14	93	6	74	-19	68	-16	87	-5	80	-6	72	7	51	14	66	-1	591
0° to 10°	18	83	19	86	6	49	-12	73	-8	79	6	74	21	56	26	76	10	576
-10° to 0°	11	41	-2	36	-11	39	-4	40	-9	42	-17	47	6	27	9	38	-3	310
Mean	0	490	-2	447	-24	421	-24	527	-26	547	-22	485	-13	401	-3	435	-15	3753

TABLE XIII. Differences in Right Ascension (O-AGK2) $\cos \delta$ Unit $^{\circ}001$, Weight - Number of Stars

R.A. Declination	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		Mean	
	Val.	Wt.	Val.	Wt.	Val.	Wt.	Val.	Wt.	Val.	Wt.	Val.	Wt.	Val.	Wt.	Val.	Wt.	Val.	Wt.
80° to 90°	-11	7	-6	14	-9	9	16	3	-3	12	-5	7	-19	10	-30	6	-9	68
70° to 80°	-18	18	-3	18	-4	24	-38	21	-15	26	-24	22	-10	30	-7	22	-15	181
60° to 70°	-5	23	5	34	-8	34	-6	45	-8	42	-12	37	-12	36	-3	30	-6	281
50° to 60°	-8	43	-6	46	-17	39	-12	57	-20	58	-16	47	-4	38	-6	35	-12	363
40° to 50°	0	56	-3	47	-24	55	-19	65	-31	64	-29	59	-17	49	-8	46	-17	441
30° to 40°	3	67	-6	46	-30	52	-32	59	-22	74	-27	57	-7	50	-17	54	-17	459
20° to 30°	0	59	-17	46	-25	52	-22	77	-36	70	-28	63	-2	54	-3	62	-17	483
10° to 20°	14	93	5	74	-18	68	-15	87	-5	80	-6	72	6	51	14	66	-1	591
0° to 10°	17	83	19	86	6	49	-12	73	-8	79	5	74	20	56	26	76	9	576
-10° to 0°	10	41	-2	36	-12	39	-4	40	-9	42	-18	47	6	27	8	38	-3	310
Mean	5	490	1	447	-16	421	-17	527	-17	547	-16	485	-2	401	3	435	-8	3753

TABLE XIV. Differences in Declination (O-AGK2)

Unit $^{\circ}01$, Weight - Number of Stars

R.A. Declination	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		Mean	
	Val.	Wt.	Val.	Wt.	Val.	Wt.	Val.	Wt.	Val.	Wt.	Val.	Wt.	Val.	Wt.	Val.	Wt.	Val.	Wt.
80° to 90°	39	7	14	14	-14	9	-80	3	21	12	17	7	11	10	11	6	10	68
70° to 80°	6	18	-3	18	-5	24	15	21	-7	26	31	22	23	30	26	22	11	181
60° to 70°	6	23	-1	34	-6	34	-9	45	1	42	7	37	17	36	17	30	3	281
50° to 60°	2	43	-3	46	-33	39	-15	57	-4	58	1	47	7	38	11	35	-5	363
40° to 50°	5	56	-20	47	-28	55	-12	65	5	64	7	59	7	49	13	46	-3	441
30° to 40°	15	67	-20	46	-21	52	-28	59	-15	74	7	57	-4	50	7	54	-7	459
20° to 30°	-18	59	-23	46	-34	52	-15	77	-23	70	-15	63	-33	54	-8	62	-20	483
10° to 20°	10	93	-3	74	9	68	5	87	12	80	26	72	32	51	17	66	12	591
0° to 10°	-1	83	3	86	-2	49	-7	73	-2	79	-4	74	23	56	14	76	3	576
-10° to 0°	12	41	4	36	5	39	-2	40	16	42	15	47	-2	27	13	38	8	310
Mean	5	490	-6	447	-13	421	-9	527	-2	547	7	485	7	401	11	435	0	3753

TABLE XV. Mean Error of a Single Observation in Right Ascension, Program Stars

Unit $^{\circ}001$, Weight - Number of Stars

R.A. Declination	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		Mean	
	Val.	Wt.	Val.	Wt.	Val.	Wt.	Val.	Wt.	Val.	Wt.	Val.	Wt.	Val.	Wt.	Val.	Wt.	Val.	Wt.
80° to 90°	24	7	18	14	22	9	7	3	24	12	10	7	17	10	25	6	19	68
70° to 80°	24	18	17	18	18	24	15	21	17	26	16	22	19	30	17	22	16	181
60° to 70°	17	23	17	34	16	34	17	45	21	42	19	37	17	36	25	30	19	281
50° to 60°	19	43	20	46	18	39	16	57	16	58	18	47	23	38	20	35	18	363
40° to 50°	19	56	21	47	16	55	16	65	15	64	19	59	21	49	24	46	18	441
30° to 40°	19	67	17	46	18	52	16	59	17	74	15	57	19	50	22	54	18	459
20° to 30°	22	59	22	46	17	52	17	77	19	70	17	63	23	54	21	62	19	483
10° to 20°	21	93	19	74	20	68	20	87	18	80	19	72	23	51	26	66	21	591
0° to 10°	23	83	24	86	19	49	20	73	23	79	19	74	22	56	22	76	22	576
-10° to 0°	28	41	24	36	25	39	22	40	29	42	27	47	29	27	26	38	26	310
Mean	21	490	21	447	19	421	18	527	19	547	19	485	22	401	23	435	20	3753

TABLE XVI. Mean error of a Single Observation in Declination, Program Stars

Unit '01, Weight - Number of Stars

R.A. Declination	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		Mean	
	Val.	Wt.	Val.	Wt.	Val.	Wt.	Val.	Wt.	Val.	Wt.	Val.	Wt.	Val.	Wt.	Val.	Wt.	Val.	Wt.
80° to 90°	36	7	31	14	33	9	53	3	43	12	52	7	28	10	38	6	37	68
70° to 80°	30	18	40	18	39	24	36	21	31	26	38	22	30	30	37	22	35	181
60° to 70°	49	23	33	34	35	34	36	45	41	42	42	37	39	36	37	30	39	281
50° to 60°	43	43	39	46	39	39	36	57	31	58	38	47	25	38	42	35	36	363
40° to 50°	40	56	35	47	35	55	35	65	37	64	31	59	38	49	36	46	36	441
30° to 40°	32	67	34	46	37	52	32	59	33	74	38	57	37	50	31	54	34	459
20° to 30°	41	59	30	46	36	52	37	77	37	70	37	63	37	54	42	62	37	483
10° to 20°	42	93	38	74	35	68	36	87	38	80	42	72	35	51	39	66	38	591
0° to 10°	44	83	41	86	39	49	39	73	41	79	37	74	43	56	47	76	41	576
-10° to 0°	39	41	33	36	41	39	43	40	41	42	45	47	41	27	49	38	42	310
Mean	40	490	36	447	37	421	36	527	37	547	38	485	36	401	40	435	38	3753

CATALOGUE OF 353 ARK3 REFERENCE STARS
OBSERVED IN THE YEARS 1956 to 1961
REDUCED WITHOUT PROPER MOTION

TABLE XVII. Catalogue Comparison in Right Ascension (O-FK3R)

Unit '001, Weight - Number of Stars

δ	Δ α _s		Δ α _a																			
	Val.	Wt.	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	Val.	Wt.	Val.	Wt.	Val.	Wt.	Val.	Wt.	Val.	Wt.		
70 ^l to 60 ^l	10	60	10	9	-24	6	-1	9	5	10	8	7	6	7	-9	5	-10	7				
80 ^l to 70 ^l	5	55	9	7	-8	5	33	5	8	4	-30	8	-16	7	-1	9	17	10				
90 ^l to 80 ^l	37	26	31	3	-149	4	-189	2	98	4	10	3	8	3	82	4	34	3				
80° to 90°	1	26	155	3	-167	4	-163	2	72	4	-27	3	37	3	52	4	0	3				
70° to 80°	4	55	26	7	11	5	23	5	36	4	-6	8	-17	7	-33	9	-4	10				
60° to 70°	19	60	26	9	-4	6	12	9	0	10	-9	7	-3	7	-28	5	-15	7				
50° to 60°	-1	68	-2	10	-3	9	-4	5	10	8	9	8	-4	11	-1	9	-2	8				
40° to 50°	-8	102	-4	11	-6	17	4	14	11	12	-4	12	-6	15	-1	9	3	12				
30° to 40°	-3	104	-8	12	-2	12	2	11	3	15	3	14	0	13	4	13	-2	14				
20° to 30°	1	116	1	16	-4	16	-2	19	-3	10	6	12	-4	15	6	14	-1	14				
10° to 20°	2	112	4	14	0	15	-4	14	1	14	1	13	-1	14	5	16	-5	12				
0° to 10°		127	0	20	1	17	-8	14	-2	16	-4	13	-1	16	9	14	1	17				
-10° to 0°	1	131	-5	12	1	22	-2	14	4	16	-4	16	-7	13	4	20	1	18				
-20° to -10°	-4	29	9	5	4	0	-1	4	-5	4	0	6	0	4	-7	2	-1	4				

TABLE XVIII. Catalogue Comparison in Right Ascension (O-FK3R) $\cos \delta$

Unit #001, Weight - Number of Stars

δ	$\Delta \alpha_2 \cos \delta$		$\Delta \alpha_1 \cos \delta$															
			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	
			Val.	Wt.	Val.	Wt.	Val.	Wt.	Val.	Wt.	Val.	Wt.	Val.	Wt.	Val.	Wt.	Val.	Wt.
60° to 65°	6	31	12	5	1	4	8	3	0	4	-5	5	-2	2	-7	3	-1	5
65° to 70°	10	29	11	4	-6	2	2	6	-1	6	3	2	-3	5	-18	2	3	2
70° to 75°	0	27	9	5	-15	1	11	2	14	2	-1	4	-3	2	-9	5	-2	6
75° to 80°	1	28	5	2	6	4	4	3	8	2	-2	4	-4	5	-7	4	5	4
80° to 90°	10	26	4	3	-12	4	-6	2	7	4	-3	3	4	3	5	4	-1	3
90 ^L to 80 ^L	12	26	-2	3	12	4	7	2	-6	4	-1	3	-2	3	-5	4	-3	3
80 ^L to 75 ^L	-3	28	-11	2	0	4	0	3	-6	2	2	4	5	5	4	4	-4	4
75 ^L to 70 ^L	1	27	3	5	21	1	-22	2	3	2	13	4	4	2	-3	5	-5	6
70 ^L to 65 ^L	-3	29	-1	4	15	2	4	6	-5	6	-20	2	2	5	-11	2	12	2
65 ^L to 60 ^L	-8	31	-14	5	-1	4	-20	3	-7	4	-4	5	-27	2	7	3	-7	5

TABLE XIX. Catalogue Comparison in Declination (O-FK3R)

Unit #01, Weight - Number of Stars

δ	$\Delta \delta_2$		$\Delta \delta_1$															
			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	
			Val.	Wt.	Val.	Wt.	Val.	Wt.	Val.	Wt.	Val.	Wt.	Val.	Wt.	Val.	Wt.	Val.	Wt.
70 ^L to 60 ^L	24	60	-1	9	18	6	-7	9	2	10	7	7	-4	7	-19	5	0	7
80 ^L to 70 ^L	-8	55	13	7	10	5	-17	5	-6	4	-5	8	-2	7	-4	9	3	10
90 ^L to 80 ^L	16	26	1	3	8	4	-5	2	11	4	6	3	-6	3	-2	4	-17	3
80° to 90°	7	26	21	3	8	4	-17	2	-7	4	4	3	-7	3	-2	4	-7	3
70° to 80°	3	55	-2	7	3	5	-8	5	8	4	10	8	-1	7	-3	9	-2	10
60° to 70°	-1	60	6	9	-21	6	-3	9	-9	10	8	7	9	7	5	5	3	7
50° to 60°	11	68	11	10	5	9	-15	5	-11	8	-5	8	-5	11	5	9	4	8
40° to 50°	7	102	-2	11	9	17	2	14	-3	12	-10	12	-3	15	3	9	1	12
30° to 40°	-1	104	-7	12	9	12	12	11	-1	15	0	14	-8	13	2	13	-4	14
20° to 30°	-2	116	-2	16	-6	16	11	19	13	10	5	12	-6	15	-13	14	-2	14
10° to 20°	5	112	-1	14	5	15	3	14	0	14	2	13	-5	14	2	16	-9	12
0° to 10°	-3	127	6	20	4	17	-1	14	3	16	-3	13	-4	16	1	14	-6	17
-10° to 0°	-3	131	-2	12	-4	22	-3	14	0	16	-8	16	8	13	3	20	6	18
-20° to -10°	3	29	-18	5	-3	0	8	4	2	4	7	6	-1	4	7	2	2	4

No.	R.A.	Dec.	Magnitude	Remarks
1	15 00 00	+30 00 00	3.0	
2	15 00 00	+30 00 00	3.0	
3	15 00 00	+30 00 00	3.0	
4	15 00 00	+30 00 00	3.0	
5	15 00 00	+30 00 00	3.0	
6	15 00 00	+30 00 00	3.0	
7	15 00 00	+30 00 00	3.0	
8	15 00 00	+30 00 00	3.0	
9	15 00 00	+30 00 00	3.0	
10	15 00 00	+30 00 00	3.0	
11	15 00 00	+30 00 00	3.0	
12	15 00 00	+30 00 00	3.0	
13	15 00 00	+30 00 00	3.0	
14	15 00 00	+30 00 00	3.0	
15	15 00 00	+30 00 00	3.0	
16	15 00 00	+30 00 00	3.0	
17	15 00 00	+30 00 00	3.0	
18	15 00 00	+30 00 00	3.0	
19	15 00 00	+30 00 00	3.0	
20	15 00 00	+30 00 00	3.0	
21	15 00 00	+30 00 00	3.0	
22	15 00 00	+30 00 00	3.0	
23	15 00 00	+30 00 00	3.0	
24	15 00 00	+30 00 00	3.0	
25	15 00 00	+30 00 00	3.0	
26	15 00 00	+30 00 00	3.0	
27	15 00 00	+30 00 00	3.0	
28	15 00 00	+30 00 00	3.0	
29	15 00 00	+30 00 00	3.0	
30	15 00 00	+30 00 00	3.0	
31	15 00 00	+30 00 00	3.0	
32	15 00 00	+30 00 00	3.0	
33	15 00 00	+30 00 00	3.0	
34	15 00 00	+30 00 00	3.0	
35	15 00 00	+30 00 00	3.0	
36	15 00 00	+30 00 00	3.0	
37	15 00 00	+30 00 00	3.0	
38	15 00 00	+30 00 00	3.0	
39	15 00 00	+30 00 00	3.0	
40	15 00 00	+30 00 00	3.0	
41	15 00 00	+30 00 00	3.0	
42	15 00 00	+30 00 00	3.0	
43	15 00 00	+30 00 00	3.0	
44	15 00 00	+30 00 00	3.0	
45	15 00 00	+30 00 00	3.0	
46	15 00 00	+30 00 00	3.0	
47	15 00 00	+30 00 00	3.0	
48	15 00 00	+30 00 00	3.0	
49	15 00 00	+30 00 00	3.0	
50	15 00 00	+30 00 00	3.0	
51	15 00 00	+30 00 00	3.0	
52	15 00 00	+30 00 00	3.0	
53	15 00 00	+30 00 00	3.0	
54	15 00 00	+30 00 00	3.0	
55	15 00 00	+30 00 00	3.0	
56	15 00 00	+30 00 00	3.0	
57	15 00 00	+30 00 00	3.0	
58	15 00 00	+30 00 00	3.0	
59	15 00 00	+30 00 00	3.0	
60	15 00 00	+30 00 00	3.0	
61	15 00 00	+30 00 00	3.0	
62	15 00 00	+30 00 00	3.0	
63	15 00 00	+30 00 00	3.0	
64	15 00 00	+30 00 00	3.0	
65	15 00 00	+30 00 00	3.0	
66	15 00 00	+30 00 00	3.0	
67	15 00 00	+30 00 00	3.0	
68	15 00 00	+30 00 00	3.0	
69	15 00 00	+30 00 00	3.0	
70	15 00 00	+30 00 00	3.0	
71	15 00 00	+30 00 00	3.0	
72	15 00 00	+30 00 00	3.0	
73	15 00 00	+30 00 00	3.0	
74	15 00 00	+30 00 00	3.0	
75	15 00 00	+30 00 00	3.0	
76	15 00 00	+30 00 00	3.0	
77	15 00 00	+30 00 00	3.0	
78	15 00 00	+30 00 00	3.0	
79	15 00 00	+30 00 00	3.0	
80	15 00 00	+30 00 00	3.0	
81	15 00 00	+30 00 00	3.0	
82	15 00 00	+30 00 00	3.0	
83	15 00 00	+30 00 00	3.0	
84	15 00 00	+30 00 00	3.0	
85	15 00 00	+30 00 00	3.0	
86	15 00 00	+30 00 00	3.0	
87	15 00 00	+30 00 00	3.0	
88	15 00 00	+30 00 00	3.0	
89	15 00 00	+30 00 00	3.0	
90	15 00 00	+30 00 00	3.0	
91	15 00 00	+30 00 00	3.0	
92	15 00 00	+30 00 00	3.0	
93	15 00 00	+30 00 00	3.0	
94	15 00 00	+30 00 00	3.0	
95	15 00 00	+30 00 00	3.0	
96	15 00 00	+30 00 00	3.0	
97	15 00 00	+30 00 00	3.0	
98	15 00 00	+30 00 00	3.0	
99	15 00 00	+30 00 00	3.0	
100	15 00 00	+30 00 00	3.0	

Part I

CATALOGUE OF 3753 AGK3 REFERENCE STARS
OBSERVED IN THE YEARS 1956 to 1961
REDUCED WITHOUT PROPER MOTION
TO THE EQUINOX 1950.0

EXPLANATION OF THE SEPARATE COLUMNS

1. The number of the star as provided by F.P. Scott of the U.S. Naval Observatory, Washington, D.C.
2. The B.D. number of the star. This is the same as in the AGK2.
3. The magnitude and spectral class as provided by F.P. Scott.
- 4 and 7. The right ascension and declination of the star as determined at Ottawa; reduced to the epoch 1950.0 without proper motion.
- 5 and 6,
- 8 and 9. The first and second terms of the precession (the same as those published in the AGK2).
10. The number of observations.
11. Mean epoch of observation.

No.	B. D. No.	M + Sp.	R.A. 1950	Precession		Decl. 1950	Precession		No. Obs.	Epoch 1900+
				1st Term	2nd Term		1st Term	2nd Term		
9	39 5213	7.9 F8	0 0 27.908	307.55	1.33	39 43 1.41	2004.3	-.5	2	57.67
10	31 5024	8.6 F8	0 0 31.697	307.52	1.01	31 35 30.26	2004.3	-.5	2	57.69
14	58 2691	8.0 K5	0 0 47.296	308.09	2.57	58 48 1.33	2004.2	-.5	2	57.27
21	12 5059	7.9 K0	0 1 8.486	307.48	.44	13 5 13.03	2004.2	-.5	2	57.25
24	21 5019	8.0 A2	0 1 18.738	307.64	.70	22 1 3.92	2004.2	-.6	2	58.22
26	64 1893	7.0 M0	0 1 40.226	309.40	3.32	64 52 28.85	2004.2	-.6	2	58.23
32	0 5084	8.4 A5	0 2 12.556	307.36	.13	1 15 31.68	2004.2	-.6	2	58.85
35	50 4233	7.9 K2	0 2 22.299	309.03	1.96	50 54 8.36	2004.2	-.7	2	57.21
39	67 1599	7.6 K0	0 2 32.202	310.91	3.80	67 33 42.49	2004.1	-.7	2	58.76
45	- 4 6019	7.7 K0	0 2 51.753	307.21	-.01	- 4 7 46.71	2004.1	-.7	2	58.86
47	52 3598	7.3 K0	0 2 59.425	309.63	2.10	52 53 36.35	2004.1	-.7	2	57.77
48	87 220	8.9 K0	0 3 3.513	350.30	45.90	87 36 39.91	2004.1	-.8	2	58.24
51	23 4853	6.6 K5	0 3 22.224	308.21	.78	24 17 27.88	2004.1	-.8	2	57.69
52	15 4937	7.5 G5	0 3 26.900	307.91	.54	16 10 25.67	2004.0	-.8	2	57.28
54	8 5172	7.8 F5	0 3 34.004	307.67	.35	9 26 12.64	2004.0	-.8	2	58.36
55	- 0 4619	8.2 G5	0 3 34.272	307.32	.10	- 0 9 24.55	2004.0	-.8	3	58.38
57	- 2 6099	8.0 K2	0 3 44.995	307.27	.06	- 1 30 57.66	2004.0	-.8	2	59.32
58	42 4834	8.9 F8	0 3 58.742	309.53	1.54	43 30 15.29	2004.0	-.8	4	59.99
59	69 1383	8.5 K0	0 4 2.016	313.75	4.35	69 53 28.54	2003.9	-.8	2	58.75
60	32 4771	8.5 K0	0 4 3.574	308.89	1.10	33 22 33.99	2003.9	-.8	2	57.75
64	22 4955	8.0 F0	0 4 27.487	308.41	.73	22 33 59.09	2003.9	-.9	2	59.34
69	45 4418	7.7 K0	0 4 35.444	310.14	1.70	46 28 44.07	2003.9	-.9	4	59.75
71	19 5210	8.2 K0	0 4 40.038	308.33	.66	20 16 38.24	2003.8	-.9	2	58.78
74	16 1	8.6 K0	0 4 54.916	308.20	.57	17 1 28.31	2003.8	-.9	3	58.43
80	41 2	8.4 G5	0 5 38.999	310.29	1.47	41 56 43.48	2003.6	-1.0	3	59.75
86	13 3	7.5 K0	0 6 11.531	308.22	.48	13 51 50.82	2003.5	-1.0	2	57.23
90	- 0 6	7.6 K2	0 6 18.444	307.36	.12	0 24 50.98	2003.5	-1.1	2	58.30
105	59 4	7.9 K0	0 7 35.797	314.92	2.80	59 44 52.29	2003.2	-1.2	2	57.74
111	11 10	8.0 G5	0 8 4.647	308.38	.45	12 32 32.43	2003.0	-1.2	2	57.79
117	31 8	7.5 M5	0 8 11.677	310.31	1.06	31 57 52.20	2003.0	-1.2	2	57.29
122	- 9 12	8.4 K0	0 8 40.427	308.25	.39	10 21 28.18	2002.8	-1.3	2	57.69
130	- 1 9	8.4 F0	0 9 25.519	307.28	.11	- 0 30 27.60	2002.6	-1.3	2	58.75
136	21 10	7.6 M0	0 9 40.751	309.64	.74	22 16 42.39	2002.5	-1.4	2	58.34
142	56 19	7.5 K2	0 10 6.284	316.38	2.55	56 56 58.80	2002.3	-1.4	2	58.30
146	28 19	8.6 K0	0 10 23.981	310.70	.97	29 6 52.84	2002.2	-1.5	2	57.75
149	36 13	7.8 K0	0 10 28.234	311.95	1.28	37 8 27.18	2002.2	-1.5	2	57.83
153	20 12	8.3 G5	0 10 37.003	309.72	.71	21 7 38.27	2002.1	-1.5	2	58.15
157	42 30	7.2 K0	0 11 1.490	313.25	1.55	42 40 17.48	2001.9	-1.5	2	57.79
166	- 4 12	7.5 K0	0 11 27.630	306.84	.02	- 4 11 11.46	2001.8	-1.5	2	58.22
170	75 5	8.0 G5	0 11 33.728	333.85	7.00	75 44 40.26	2001.7	-1.7	2	58.21
175	- 3 18	7.3 K0	0 11 50.879	307.03	.06	- 2 28 32.46	2001.6	-1.6	2	58.34
182	32 26	7.3 K0	0 12 30.443	312.02	1.12	32 45 10.51	2001.3	-1.7	2	57.22
195	37 32	8.0 G5	0 13 21.256	313.51	1.36	38 28 52.97	2000.9	-1.8	2	58.22
199	80 3	8.7 K0	0 13 48.959	360.47	13.36	81 23 10.51	2000.6	-2.0	2	58.74
200	15 30	8.2 A5	0 13 59.582	309.60	.55	15 33 33.53	2000.5	-1.8	2	57.69
204	45 48	7.3 G5	0 14 13.243	316.01	1.78	46 20 13.33	2000.4	-1.9	2	57.24
207	47 49	9.0 K0	0 14 28.390	316.79	1.91	48 17 14.30	2000.3	-1.9	2	58.25
208	30 31	7.5 K5	0 14 29.212	312.36	1.05	30 47 48.05	2000.3	-1.9	2	57.75
209	9 23	8.4 K2	0 14 30.441	308.85	.40	10 13 28.24	2000.2	-1.8	3	59.76
217	43 45	7.3 K0	0 15 14.178	315.99	1.67	44 18 1.18	1999.8	-2.0	3	57.83

Position 1950 + T = Position 1950 + T (1st term) + T² (2nd term) + T' (P. M.).

T in centuries from 1900.0, T' in centuries from epoch.

No.	B.D. No.		M + Sp.	R.A. 1950	Precession		Decl. 1950	Precession		No. Obs.	Epoch 1900+
					1st Term	2nd Term		1st Term	2nd Term		
220	33	24	8.5 F2	0 15 19.799	313.42	1.19	34 17 53.83	1999.8	-2.0	2	58.22
224	18	27	8.5 G0	0 15 43.001	310.50	.67	19 7 37.19	1999.6	-2.0	2	58.28
227	20	22	8.6 F2	0 15 51.442	310.91	.73	21 12 1.16	1999.5	-2.0	2	59.35
229	35	46	7.5 K2	0 15 58.919	314.02	1.25	35 42 45.16	1999.4	-2.0	2	58.31
232	51	40	7.5 K0	0 16 15.992	319.41	2.18	51 53 43.69	1999.2	-2.1	2	57.69
239	- 0	42	7.9 G0	0 16 42.799	307.37	.15	0 14 35.19	1998.9	-2.1	2	58.22
241	8	31	8.4 A5	0 16 47.766	308.84	.37	8 45 59.51	1998.9	-2.1	2	57.75
246	49	49	8.5 K0	0 17 8.970	319.43	2.09	50 28 21.43	1998.6	-2.2	2	59.35
248	54	37	7.6 K2	0 17 11.429	321.86	2.50	55 26 13.08	1998.6	-2.2	4	59.77
250	38	31	8.1 K0	0 17 17.159	315.56	1.42	39 15 56.89	1998.6	-2.2	3	57.82
259	2	37	7.7 M0	0 17 35.479	307.82	.22	2 45 22.06	1998.4	-2.2	2	58.43
261	3	34	7.9 G5	0 17 47.476	308.14	.26	4 30 6.00	1998.2	-2.2	4	59.53
266	10	31	6.8 K0	0 17 55.465	309.29	.43	10 38 26.35	1998.1	-2.2	2	58.86
271	- 1	31	8.7 A5	0 18 16.148	307.11	.11	- 1 8 54.22	1997.9	-2.2	2	59.91
276	77	6	8.8 F2	0 18 40.077	359.38	9.67	78 12 9.28	1997.6	-2.6	2	58.15
288	6	30	8.6 K2	0 19 25.260	308.66	.32	6 44 3.40	1997.1	-2.3	3	57.43
291	32	53	8.8 M0	0 19 41.991	314.72	1.15	32 47 28.41	1996.9	-2.4	2	57.68
303	11	51	7.4 K0	0 20 52.295	309.81	.46	11 33 33.03	1996.0	-2.5	2	57.27
307	36	47	8.6 F0	0 21 7.094	316.47	1.32	36 37 27.18	1995.8	-2.5	2	57.70
312	2	44	8.0 K0	0 21 22.881	308.08	.24	3 29 2.54	1995.5	-2.5	2	57.28
319	15	56	7.6 F5	0 22 2.560	311.04	.59	16 7 51.54	1995.0	-2.6	3	57.07
321	19	57	7.7 K0	0 22 8.569	311.97	.71	19 47 38.91	1994.9	-2.6	4	58.30
327	34	51	7.3 K5	0 22 39.142	316.48	1.25	34 45 37.92	1994.5	-2.7	2	57.76
328	8	45	8.7 K0	0 22 44.302	309.37	.39	8 47 28.86	1994.4	-2.7	2	57.75
337	54	59	7.2 K0	0 23 22.149	326.91	2.57	55 12 51.43	1993.8	-2.9	2	57.75
343	50	72	8.0 G0	0 23 36.669	324.30	2.19	51 0 14.12	1993.6	-2.9	2	58.21
344	0	54	8.4 K0	0 23 38.217	307.54	.18	0 53 15.42	1993.6	-2.7	2	58.27
345	31	52	8.2 K2	0 23 38.717	315.92	1.14	31 58 11.10	1993.6	-2.8	2	58.88
350	46	78	8.0 K2	0 23 58.670	322.19	1.89	46 48 26.45	1993.3	-2.9	3	58.11
352	9	44	8.4 K5	0 24 18.258	309.79	.42	9 52 20.01	1993.0	-2.8	2	58.24
357	37	68	8.0 K0	0 24 28.120	318.65	1.43	38 30 6.61	1992.8	-2.9	2	57.75
359	30	60	8.2 G5	0 24 45.162	315.85	1.09	30 37 1.52	1992.6	-2.9	2	57.29
360	2	54	7.2 G5	0 24 46.168	307.96	.23	2 32 15.29	1992.5	-2.9	2	57.79
363	13	52	8.3 K2	0 24 55.748	310.98	.55	14 8 56.85	1992.4	-2.9	2	57.67
364	21	46	7.7 K0	0 25 5.722	313.17	.78	21 49 8.89	1992.3	-2.9	2	58.89
367	3	48	8.3 K2	0 25 9.060	308.44	.28	4 19 51.69	1992.2	-2.9	2	58.43
370	41	67	8.1 G5	0 25 33.603	320.67	1.62	41 54 3.13	1991.8	-3.0	2	58.24
373	6	54	8.6 K0	0 25 56.177	309.13	.34	6 48 50.13	1991.4	-3.0	2	57.74
374	32	69	8.0 K0	0 25 57.844	317.27	1.20	33 21 27.66	1991.4	-3.0	2	58.23
376	47	113	6.9 M0	0 26 14.236	324.36	2.00	48 8 14.68	1991.1	-3.1	2	58.88
379	10	54	7.7 F0	0 26 33.253	310.34	.46	11 2 38.19	1990.8	-3.0	2	58.27
392	44	101	8.5 G5	0 27 12.169	323.00	1.79	44 43 50.87	1990.2	-3.2	2	58.29
403	17	61	8.1 K0	0 28 0.314	312.47	.65	17 32 13.17	1989.3	-3.2	2	57.20
408	49	108	7.3 K0	0 28 18.381	326.93	2.16	49 58 40.95	1989.0	-3.4	4	58.00
418	18	67	6.9 K5	0 29 17.956	313.31	.72	19 22 0.88	1987.9	-3.4	3	57.40
436	36	82	8.1 K0	0 30 37.403	320.70	1.39	36 54 25.81	1986.4	-3.5	2	57.67
437	- 4	59	7.4 K0	0 30 38.213	306.04	.08	- 4 7 24.71	1986.4	-3.4	2	57.79
447	- 3	64	8.5 F0	0 31 4.870	306.38	.10	- 3 0 38.29	1985.9	-3.4	2	57.67
453	2	67	7.6 G5	0 31 19.980	308.30	.26	3 2 39.76	1985.6	-3.5	2	57.28
458	68	34	8.6 K0	0 31 37.986	355.62	5.28	69 9 33.71	1985.2	-4.0	2	58.15

Position 1950 + T = Position 1950 + T (1st term) + T² (2nd term) + T' (P. M.).

T in centuries from 1900.0, T' in centuries from epoch.

No.	B.D. No.		M + Sp.	R.A. 1950	Precession		Decl. 1950	Precession		No. Obs.	Epoch 1900+
					1st Term	2nd Term		1st Term	2nd Term		
460	0	77	8.4 K0	0 31 49.976	307.56	.20	0 43 37.72	1985.0	-3.5	2	57.75
464	22	86	8.5 F2	0 32 17.343	315.15	.83	22 37 39.24	1984.4	-3.6	2	58.24
469	61	125	8.0 G5	0 32 29.890	342.24	3.53	61 35 22.07	1984.1	-3.9	2	57.30
471	67	56	7.1 K2	0 32 39.091	353.47	4.85	67 39 2.84	1984.0	-4.1	3	57.47
475	71	25	8.4 K5	0 32 54.587	366.97	6.57	72 13 26.00	1983.6	-4.3	2	58.74
478	28	96	8.1 G5	0 33 13.085	317.95	1.05	28 49 29.60	1983.2	-3.8	2	57.67
482	6	75	8.4 A2	0 33 22.111	309.82	.38	7 20 2.59	1983.1	-3.7	4	58.78
483	37	98	7.0 K5	0 33 24.897	322.48	1.46	37 58 37.32	1983.0	-3.8	2	58.28
484	56	91	7.1 K2	0 33 25.345	337.26	2.90	57 1 58.00	1983.0	-4.0	2	58.30
503	- 4	64	8.2 K0	0 34 23.625	306.05	.10	- 3 40 31.20	1981.7	-3.8	2	57.24
509	44	128	8.0 M0	0 34 53.262	327.83	1.87	45 19 45.98	1981.1	-4.1	2	57.22
516	21	77	8.6 G5	0 35 22.623	315.72	.83	22 13 16.88	1980.4	-4.0	2	57.74
517	1	108	7.7 K0	0 35 26.243	308.22	.26	2 29 20.00	1980.3	-3.9	2	57.76
518	5	81	8.8 K2	0 35 26.456	309.34	.34	5 34 21.66	1980.3	-3.9	2	57.68
519	- 1	75	6.9 K0	0 35 31.022	307.05	.17	- 0 46 40.97	1980.2	-3.9	2	57.69
528	33	89	7.9 K5	0 36 18.268	321.57	1.28	34 2 39.10	1979.2	-4.1	2	57.24
531	7	86	8.5 K0	0 36 22.247	310.16	.40	7 38 26.87	1979.1	-4.0	2	57.76
537	31	89	8.2 K5	0 36 48.757	320.87	1.21	32 21 18.95	1978.5	-4.2	2	57.69
543	15	100	7.6 G5	0 37 39.716	313.41	.62	15 33 1.33	1977.3	-4.2	2	58.15
549	3	86	8.0 G5	0 38 15.331	308.97	.31	4 12 15.49	1976.4	-4.2	2	57.69
550	20	90	7.0 K0	0 38 21.024	315.76	.79	20 44 47.10	1976.3	-4.3	3	58.07
556	18	93	8.5 A5	0 38 38.604	315.10	.74	19 7 35.89	1975.8	-4.3	2	58.20
567	11	86	8.2 K0	0 39 32.350	312.07	.52	11 40 16.92	1974.5	-4.3	2	57.76
568	57	130	8.1 G0	0 39 33.680	344.48	3.15	58 17 46.81	1974.5	-4.7	2	57.24
570	43	135	7.2 K0	0 39 36.695	329.26	1.81	43 39 50.11	1974.4	-4.5	2	58.30
575	22	106	8.2 K0	0 39 43.811	316.90	.85	22 33 31.54	1974.2	-4.4	2	57.69
589	34	108	7.9 K0	0 40 27.794	323.81	1.33	35 4 44.91	1973.1	-4.6	2	57.68
597	24	104	8.2 G5	0 41 1.378	318.23	.93	24 36 60.22	1972.2	-4.5	2	57.28
601	48	219	7.2 K0	0 41 11.409	334.61	2.17	48 47 48.72	1972.0	-4.8	2	58.27
605	17	93	8.3 K2	0 41 30.177	314.99	.70	17 39 21.69	1971.5	-4.6	4	59.06
612	41	123	8.4 G5	0 42 2.664	329.45	1.73	42 13 25.28	1970.6	-4.8	2	57.31
619	14	105	8.1 F0	0 42 41.038	313.91	.62	14 53 33.94	1969.6	-4.7	2	57.24
623	7	104	8.0 G5	0 43 4.863	310.65	.41	7 34 18.32	1969.0	-4.7	2	57.22
632	30	114	7.5 G5	0 43 45.601	322.37	1.17	30 40 44.03	1967.8	-4.9	3	58.37
635	38	108	8.3 K5	0 43 53.276	328.18	1.57	39 20 56.16	1967.6	-5.0	2	57.76
637	45	199	7.3 G5	0 44 4.331	333.86	1.99	46 5 28.92	1967.3	-5.1	2	57.29
644	50	141	7.5 K2	0 44 34.533	339.02	2.38	50 49 24.37	1966.5	-5.2	2	58.27
646	10	89	7.6 G5	0 44 52.976	312.56	.52	11 22 10.58	1965.9	-4.9	2	57.79
649	- 3	99	7.2 K5	0 45 3.684	306.14	.15	- 2 35 40.73	1965.6	-4.8	2	58.39
654	20	106	7.9 K0	0 45 16.691	317.26	.81	20 45 5.79	1965.3	-5.0	2	58.87
656	60	107	7.9 G5	0 45 23.948	355.38	3.72	61 18 43.38	1965.1	-5.5	2	58.24
659	18	106	8.6 K2	0 45 29.613	316.51	.76	19 12 39.81	1964.9	-5.0	2	59.36
660	- 4	95	8.2 K0	0 45 30.971	305.49	.12	- 3 59 4.34	1964.9	-4.8	2	59.37
669	57	151	7.9 K7	0 46 2.171	349.56	3.17	57 44 6.11	1964.0	-5.5	2	58.24
676	12	95	8.2 K5	0 46 20.041	313.33	.56	12 36 26.52	1963.4	-5.0	2	59.27
685	5	109	7.6 K2	0 47 4.663	310.26	.38	6 8 6.17	1962.1	-5.0	3	57.79
691	14	121	8.3 A0	0 47 49.816	314.85	.64	15 12 44.45	1960.8	-5.2	2	57.74
694	9	97	8.6 A2	0 47 56.975	312.29	.49	10 8 22.68	1960.6	-5.1	4	58.85
711	48	257	7.4 K2	0 48 59.633	339.61	2.24	48 42 44.00	1958.6	-5.7	2	57.22
713	70	57	8.1 G5	0 49 1.197	391.44	6.91	71 22 0.44	1958.6	-6.5	2	57.23

Position 1950 + T = Position 1950 + T (1st term) + T² (2nd term) + T' (P. M.).

T in centuries from 1900.0, T' in centuries from epoch.

No.	B. D. No.		M + Sp.	R.A. 1950		Precession		Decl. 1950		Precession		No. Obs.	Epoch 1900+
						1st Term	2nd Term			1st Term	2nd Term		
718	15	126	7.9 G5	0 49	13.042	315.73	.68	16 26	41.46	1958.2	-5.3	3	57.10
721	84	14	8.1 G8	0 49	26.731	665.41	60.95	85 25	55.20	1957.8	-10.8	3	58.40
729	29	145	8.1 K2	0 49	59.410	324.25	1.17	30 20	1.68	1956.8	-5.5	2	57.30
733	36	145	8.5 M0	0 50	9.382	328.93	1.46	36 40	24.47	1956.5	-5.6	2	58.81
747	1	158	8.6 G0	0 51	4.547	308.17	.27	1 38	18.93	1954.7	-5.4	4	57.52
751	10	105	8.4 K0	0 51	13.639	313.00	.52	10 51	5.80	1954.4	-5.5	2	57.79
761	41	163	8.0 A3	0 52	22.324	334.56	1.77	41 58	47.70	1952.2	-5.9	2	57.23
763	12	108	8.0 K0	0 52	23.464	314.08	.57	12 34	36.64	1952.1	-5.6	2	57.40
765	0	142	8.4 G5	0 52	27.475	307.60	.25	0 31	10.08	1952.0	-5.5	2	58.24
767	35	167	8.6 K5	0 52	32.053	329.21	1.43	35 46	52.48	1951.8	-5.9	2	58.28
775	3	127	8.6 K2	0 53	13.277	309.61	.35	4 14	27.66	1950.5	-5.6	3	57.48
776	69	54	8.6 A2	0 53	19.139	392.82	6.50	70 10	59.49	1950.3	-7.0	2	58.82
778	58	136	8.1 K0	0 53	22.945	358.21	3.42	58 46	48.03	1950.1	-6.4	2	57.79
784	59	145	8.6 G5	0 53	41.683	360.68	3.59	59 49	40.38	1949.5	-6.5	2	57.28
790	13	130	8.4 K5	0 54	4.573	315.41	.63	14 30	20.59	1948.7	-5.8	2	58.24
791	16	90	8.2 A5	0 54	6.137	317.15	.72	17 27	21.61	1948.7	-5.8	4	58.84
792	9	109	8.7 K5	0 54	7.202	312.78	.50	9 53	44.26	1948.6	-5.7	2	57.75
802	11	120	8.2 K2	0 54	44.332	314.14	.57	12 9	35.96	1947.4	-5.8	2	57.68
803	52	213	7.8 K2	0 54	48.245	349.80	2.72	53 18	32.44	1947.2	-6.5	4	58.03
808	5	129	8.6 K5	0 55	18.638	310.46	.39	5 36	6.68	1946.2	-5.8	2	58.85
817	26	161	7.2 K2	0 55	46.474	323.39	1.04	26 30	58.19	1945.2	-6.1	2	57.79
820	21	126	8.8 K0	0 55	52.996	320.46	.88	22 9	2.00	1945.0	-6.1	2	58.27
821	15	144	7.6 K0	0 55	53.194	316.60	.68	16 2	38.16	1945.0	-6.0	2	58.81
823	73	47	8.1 K0	0 55	59.380	417.98	8.75	73 43	6.30	1944.7	-7.8	2	58.21
833	40	199	8.5 A0	0 56	35.913	335.40	1.71	40 40	22.05	1943.4	-6.4	2	57.68
840	1	185	7.8 K2	0 57	31.188	308.70	.31	2 21	50.02	1941.5	-6.0	2	57.29
851	- 1	131	8.6 K2	0 58	16.176	306.57	.22	- 1 17	27.71	1939.8	-6.1	2	60.35
858	7	146	8.2 G5	0 58	35.648	311.93	.46	7 45	55.09	1939.1	-6.2	2	58.32
860	10	115	8.1 G5	0 58	36.829	313.85	.54	10 54	42.97	1939.1	-6.2	2	57.22
872	29	168	8.5 G5	0 59	29.196	327.04	1.19	29 53	39.88	1937.1	-6.5	2	58.21
880	32	177	8.0 K5	1 0	11.662	329.90	1.33	33 3	18.34	1935.5	-6.7	2	57.78
883	12	126	7.8 K0	1 0	28.458	315.23	.60	12 46	49.98	1934.9	-6.4	2	57.67
892	52	248	8.8 K0	1 1	2.393	353.32	2.70	52 35	55.40	1933.6	-7.2	4	59.48
894	36	187	7.8 G5	1 1	12.961	333.49	1.50	36 33	54.81	1933.2	-6.8	4	59.80
896	37	199	7.0 M0	1 1	16.435	335.33	1.60	38 25	14.65	1933.1	-6.9	2	58.29
902	- 0	163	8.3 K5	1 1	43.664	307.54	.27	0 20	50.77	1932.0	-6.4	2	58.31
905	8	166	8.1 K0	1 2	1.624	313.19	.50	9 19	6.67	1931.3	-6.5	3	57.41
918	5	144	8.2 M0	1 2	55.356	311.01	.41	5 48	11.85	1929.2	-6.6	2	57.21
946	4	182	8.4 K2	1 4	38.673	310.41	.39	4 44	19.59	1925.1	-6.7	2	58.22
947	33	169	7.9 K5	1 4	38.839	332.16	1.37	33 43	45.17	1925.0	-7.1	3	57.46
956	59	188	7.9 G5	1 5	10.200	371.91	3.76	59 52	11.19	1923.8	-8.0	2	58.31
964	25	170	8.9 K0	1 5	39.121	325.45	1.03	25 38	29.98	1922.6	-7.1	2	57.73
967	9	132	6.6 M0	1 5	44.777	313.75	.52	9 38	29.69	1922.4	-6.9	2	58.31
978	39	268	8.8 K2	1 6	20.153	339.49	1.72	40 8	27.08	1920.9	-7.5	2	57.78
989	30	177	8.7 G5	1 7	16.989	330.29	1.24	30 42	21.53	1918.5	-7.4	2	58.22
997	48	355	7.2 K2	1 7	55.581	352.06	2.38	48 53	54.40	1916.9	-7.9	2	58.23
999	5	150	8.8 K2	1 7	58.285	311.77	.44	6 29	6.33	1916.8	-7.0	2	59.00
1007	13	175	7.9 K0	1 8	37.329	317.47	.67	14 25	35.38	1915.1	-7.2	2	58.43
1008	20	171	8.6 K5	1 8	38.837	322.81	.89	21 26	23.89	1915.0	-7.3	2	58.87
1015	- 1	156	8.0 G5	1 9	17.617	306.83	.26	- 0 42	38.15	1913.3	-7.1	2	58.90

Position 1950 + T = Position 1950 + T (1st term) + T² (2nd term) + T' (P. M.).

T in centuries from 1900.0, T' in centuries from epoch.

No.	B.D. No.		M + Sp.	R.A. 1950	Precession		Decl. 1950	Precession		No. Obs.	Epoch 1900+
					1st Term	2nd Term		1st Term	2nd Term		
1020	52	279	8.1 K0	1 9 49.958	361.11	2.85	53 17 56.47	1911.9	-8.3	2	58.29
1022	56	221	8.3 K0	1 9 54.442	368.92	3.33	56 55 3.22	1911.7	-8.5	2	59.00
1025	62	224	7.4 K0	1 10 3.895	384.79	4.39	62 33 52.78	1911.3	-8.8	2	58.78
1039	24	190	7.6 K2	1 10 49.819	326.06	1.01	24 44 28.91	1909.3	-7.6	2	59.31
1047	8	187	8.0 G5	1 11 4.858	313.57	.51	8 42 35.92	1908.6	-7.4	2	58.22
1049	70	87	7.7 K0	1 11 5.403	424.69	7.47	70 50 12.18	1908.6	-9.9	2	57.75
1056	- 2	184	8.4 F5	1 11 31.727	305.62	.22	- 2 22 43.72	1907.4	-7.2	2	58.82
1059	18	163	7.9 G5	1 11 43.820	321.38	.81	18 51 45.87	1906.9	-7.6	2	57.75
1065	59	220	7.7 K0	1 12 20.551	379.92	3.93	60 15 18.38	1905.2	-9.0	2	58.94
1075	6	185	8.0 K2	1 12 57.041	312.23	.46	6 41 32.61	1903.6	-7.6	2	57.79
1077	49	335	7.5 K5	1 13 4.760	356.60	2.47	49 37 57.29	1903.2	-8.6	2	57.67
1079	80	34	7.6 G5	1 13 13.825	581.54	26.01	81 17 50.64	1902.8	-13.7	2	58.22
1083	12	155	8.7 K0	1 13 31.793	317.42	.65	13 28 19.09	1902.0	-7.7	2	58.81
1103	43	262	6.5 K5	1 14 46.519	349.22	2.04	44 22 8.23	1898.5	-8.6	2	58.83
1111	76	39	7.2 K2	1 15 4.590	486.89	13.05	76 32 2.00	1897.7	-11.8	2	57.41
1114	0	215	8.0 A5	1 15 8.397	307.99	.31	0 53 19.39	1897.5	-7.6	2	57.84
1122	39	301	7.1 G5	1 16 0.915	343.45	1.74	39 42 4.04	1895.0	-8.6	2	58.89
1125	21	173	8.8 K0	1 16 13.994	325.08	.93	22 8 47.57	1894.4	-8.1	2	58.22
1130	6	195	8.0 G5	1 16 20.844	312.83	.48	7 10 5.29	1894.1	-7.9	2	57.24
1131	33	205	7.7 K2	1 16 46.195	337.51	1.45	34 29 25.54	1892.9	-8.5	2	58.76
1139	11	167	8.1 F5	1 17 4.233	316.61	.61	11 53 1.27	1892.0	-8.0	2	58.23
1144	64	150	7.7 K0	1 17 26.441	401.55	5.11	64 49 19.85	1890.9	-10.1	2	57.75
1145	36	224	8.5 K2	1 17 27.187	341.21	1.60	37 24 37.91	1890.9	-8.6	2	57.42
1156	14	204	7.2 G5	1 18 0.837	319.64	.72	15 26 3.56	1889.3	-8.2	2	57.21
1158	68	94	8.3 K0	1 18 12.766	423.67	6.71	68 58 31.01	1888.7	-10.7	2	57.28
1165	- 4	189	8.8 G0	1 19 9.495	304.40	.21	- 3 41 53.87	1885.9	-7.9	2	57.76
1172	13	204	8.0 G5	1 19 33.520	318.73	.68	14 4 47.08	1884.7	-8.3	3	57.15
1176	25	228	7.4 K0	1 19 52.255	329.88	1.09	26 18 5.78	1883.8	-8.6	4	58.58
1182	32	245	7.7 K5	1 20 23.126	337.18	1.38	33 1 44.44	1882.2	-8.8	2	58.76
1185	47	398	7.5 K2	1 20 46.287	358.76	2.38	48 6 56.63	1881.1	-9.4	2	58.78
1187	22	221	8.3 G0	1 20 48.350	326.62	.96	22 41 46.03	1881.0	-8.6	2	58.31
1189	7	204	8.5 A3	1 21 3.155	313.77	.51	7 55 42.51	1880.2	-8.3	2	58.34
1191	58	230	8.0 K0	1 21 7.385	383.46	3.73	58 41 10.38	1880.0	-10.1	2	58.32
1193	56	264	7.1 K5	1 21 15.044	378.58	3.44	56 56 16.59	1879.6	-10.0	2	58.24
1210	- 1	182	7.8 A5	1 22 7.810	306.32	.28	- 1 13 48.42	1876.9	-8.2	2	57.78
1214	34	243	7.8 G5	1 22 17.479	340.78	1.51	35 28 24.38	1876.4	-9.1	2	58.31
1230	- 2	213	7.8 G0	1 23 33.514	305.28	.25	- 2 27 37.08	1872.5	-8.3	2	58.76
1232	17	206	8.7 K0	1 23 49.476	322.80	.80	17 56 37.32	1871.7	-8.8	4	58.54
1241	24	212	7.2 K0	1 24 20.286	329.93	1.06	25 10 50.32	1870.1	-9.1	2	57.28
1244	51	308	7.5 K0	1 24 32.247	368.00	2.75	51 33 0.91	1869.4	-10.1	2	58.79
1245	1	262	8.8 K2	1 24 33.157	308.90	.36	1 52 12.95	1869.4	-8.5	2	58.89
1267	48	448	8.3 M2	1 26 24.155	363.72	2.48	48 54 9.74	1863.5	-10.2	2	58.29
1269	8	238	8.4 K2	1 26 33.314	315.50	.56	9 25 10.25	1863.0	-8.9	2	57.28
1273	65	173	7.8 K5	1 26 54.387	418.33	5.65	65 58 58.56	1861.9	-11.7	2	58.22
1275	59	261	6.9 K2	1 27 1.420	391.49	3.95	59 31 26.88	1861.5	-11.0	3	57.89
1278	72	75	8.2 K0	1 27 6.482	465.70	9.28	72 37 12.31	1861.2	-13.0	2	57.79
1289	- 1	199	8.6 K2	1 28 0.550	306.37	.29	- 1 5 44.32	1858.3	-8.8	2	59.34
1295	57	308	7.8 K0	1 28 9.211	387.33	3.66	57 55 24.28	1857.8	-11.0	2	58.83
1296	5	196	8.6 G5	1 28 13.812	312.35	.46	5 42 58.69	1857.6	-8.9	2	58.78
1309	50	299	8.4 G0	1 29 26.231	369.14	2.67	50 34 3.59	1853.6	-10.6	2	57.89

Position 1950 + T = Position 1950 + T (1st term) + T² (2nd term) + T' (P. M.).

T in centuries from 1900.0, T' in centuries from epoch.

No.	B. D. No.	M + Sp.	R.A. 1950	Precession		Decl. 1950	Precession		No. Obs.	Epoch 1900+
				1st Term	2nd Term		1st Term	2nd Term		
1317	12 189	8.1 K0	1 30 6.302	319.06	.66	12 54 18.89	1851.3	-9.3	3	57.77
1321	54 315	6.8 K2	1 30 15.668	379.71	3.17	54 41 19.26	1850.8	-11.0	2	58.31
1325	- 0 247	8.4 K0	1 30 25.121	307.21	.32	- 0 7 46.58	1850.3	-9.0	4	58.84
1327	41 300	8.5 K0	1 30 28.724	353.72	1.93	42 4 17.99	1850.1	-10.3	2	58.88
1335	29 260	8.1 A3	1 30 48.068	337.26	1.27	30 8 0.00	1849.0	-9.9	2	57.37
1341	- 2 242	8.6 G5	1 31 3.735	305.41	.27	- 2 7 18.21	1848.1	-9.0	3	58.48
1342	16 172	8.0 K0	1 31 5.055	323.56	.80	17 25 45.56	1848.0	-9.5	4	59.07
1344	18 207	8.7 K0	1 31 10.855	324.67	.83	18 31 26.95	1847.7	-9.6	2	57.88
1349	3 216	8.3 F5	1 31 28.375	310.84	.42	3 52 22.45	1846.7	-9.2	2	58.80
1361	13 238	8.1 G5	1 32 14.407	320.50	.70	14 7 47.96	1844.1	-9.5	4	57.73
1363	7 234	7.0 K0	1 32 15.039	314.70	.53	8 1 9.51	1844.1	-9.4	2	57.35
1367	51 338	7.2 K2	1 32 28.904	374.26	2.83	51 54 32.38	1843.3	-11.1	2	58.30
1375	9 189	8.4 K0	1 32 54.648	316.91	.59	10 18 22.93	1841.8	-9.5	2	57.22
1380	46 397	7.1 G5	1 33 20.020	364.22	2.34	47 4 16.22	1840.3	-10.9	2	57.28
1384	47 462	8.0 K0	1 33 35.323	365.88	2.41	47 49 6.19	1839.5	-11.0	2	57.90
1386	23 211	8.8 K0	1 33 38.869	330.92	1.03	23 57 43.20	1839.2	-10.0	3	58.12
1390	32 280	7.6 K0	1 33 57.354	341.39	1.39	32 35 56.87	1838.2	-10.3	2	57.79
1412	9 194	7.6 F5	1 35 18.604	316.37	.57	9 30 34.32	1833.4	-9.7	4	57.53
1416	28 273	8.2 K2	1 35 39.281	336.85	1.22	28 35 30.55	1832.2	-10.3	2	58.33
1440	2 244	8.2 G0	1 37 8.540	310.40	.41	3 12 8.78	1826.9	-9.7	4	57.54
1453	- 2 270	8.6 F0	1 37 54.016	305.53	.29	- 1 51 16.06	1824.2	-9.6	2	58.43
1458	22 257	7.6 G5	1 38 21.488	330.67	.99	22 46 22.54	1822.5	-10.5	2	58.86
1464	17 247	7.8 A2	1 38 49.601	325.91	.84	18 23 59.79	1820.8	-10.3	2	57.75
1466	44 352	8.6 K	1 38 51.992	363.84	2.20	45 19 30.79	1820.6	-11.5	2	57.83
1478	3 230	8.7 A0	1 39 20.089	311.67	.45	4 25 14.55	1818.9	-9.9	2	59.34
1483	15 251	7.6 K0	1 39 45.091	322.98	.76	15 31 36.34	1817.4	-10.3	2	57.78
1487	24 250	8.4 M0	1 39 55.857	333.70	1.08	25 3 4.71	1816.7	-10.7	2	57.79
1493	10 225	8.5 F0	1 40 10.623	318.15	.62	10 50 4.61	1815.8	-10.2	2	58.76
1503	13 266	8.7 A3	1 41 1.310	322.02	.72	14 27 4.62	1812.7	-10.4	3	57.44
1504	5 232	7.9 K0	1 41 1.904	312.81	.48	5 29 39.70	1812.6	-10.1	2	58.30
1513	- 0 264	8.4 G5	1 41 26.332	306.91	.33	- 0 25 12.01	1811.1	-10.0	5	59.99
1525	1 313	7.2 K0	1 42 29.926	309.60	.40	2 15 10.72	1807.1	-10.1	2	57.76
1527	26 290	7.8 K2	1 42 44.702	336.67	1.15	26 52 9.62	1806.2	-11.0	2	58.35
1535	40 362	7.6 F5	1 43 20.034	357.47	1.87	40 44 1.79	1804.0	-11.7	2	57.78
1537	- 4 269	8.2 G5	1 43 26.252	302.76	.25	- 4 28 40.98	1803.6	-10.0	4	58.84
1560	0 289	8.0 G5	1 44 47.459	307.91	.36	0 33 45.80	1798.4	-10.3	2	58.30
1561	12 231	8.8 K5	1 44 49.256	320.65	.68	12 43 34.16	1798.3	-10.7	2	58.34
1563	- 0 274	8.1 G5	1 45 2.091	307.23	.35	- 0 5 37.77	1797.4	-10.3	2	58.30
1577	41 353	8.5 F0	1 46 13.873	360.63	1.95	41 44 27.92	1792.8	-12.1	2	57.75
1578	34 311	8.3 G5	1 46 18.071	348.65	1.52	34 39 21.91	1792.5	-11.7	2	58.77
1583	61 334	7.8 G5	1 46 28.411	419.46	4.65	61 54 11.64	1791.8	-14.1	3	57.16
1586	32 323	8.8 K0	1 46 33.356	345.89	1.42	32 46 5.08	1791.5	-11.7	2	57.29
1589	26 303	8.3 F0	1 47 9.581	338.30	1.17	27 13 1.30	1789.1	-11.5	2	57.78
1606	42 388	7.5 K0	1 48 4.614	364.49	2.07	43 16 40.95	1785.5	-12.4	2	57.79
1619	17 273	8.2 G0	1 48 48.239	327.48	.85	18 15 41.18	1782.6	-11.3	2	57.37
1621	15 273	8.3 K0	1 48 55.450	325.03	.78	16 9 7.21	1782.1	-11.2	2	57.85
1630	46 467	8.5 K2	1 49 26.918	374.17	2.42	47 25 29.22	1780.0	-12.9	2	58.79
1638	0 302	8.5 A5	1 50 3.438	308.42	.38	1 0 41.15	1777.6	-10.8	2	58.31
1641	3 257	8.2 G5	1 50 11.337	312.10	.46	4 25 1.08	1777.0	-10.9	2	58.31
1655	6 296	7.6 K2	1 51 0.349	315.39	.54	7 23 18.45	1773.7	-11.1	4	58.55

Position 1950 + T = Position 1950 + T (1st term) + T² (2nd term) + T' (P. M.).

T in centuries from 1900.0, T' in centuries from epoch.

No.	B. D. No.		M + Sp.	R.A. 1950		Precession		Decl. 1950			Precession		No. Obs.	Epoch 1900+
						1st Term	2nd Term				1st Term	2nd Term		
1657	23	254	8.9 A3	1 51	21.887	335.02	1.05	23 55	38.12	1772.3	-11.8	2	58.34	
1658	40	400	8.2 K0	1 51	27.259	360.94	1.88	40 38	40.48	1771.9	-12.7	2	58.79	
1662	53	419	7.3 G5	1 51	41.527	393.27	3.17	53 56	38.54	1770.9	-13.8	2	57.86	
1671	13	296	7.5 G5	1 52	5.780	322.41	.71	13 30	42.97	1769.3	-11.4	2	58.78	
1674	69	123	7.3 K5	1 52	29.632	479.99	7.99	69 57	34.27	1767.6	-16.9	2	57.27	
1694	51	444	7.8 K5	1 53	36.586	389.40	2.95	52 14	43.76	1763.0	-13.9	2	57.30	
1696	34	338	8.5 K2	1 53	42.368	352.53	1.56	35 24	10.49	1762.6	-12.6	2	57.29	
1736	62	332	8.7 M0	1 55	50.044	432.47	4.93	62 39	47.75	1753.7	-15.6	2	57.29	
1738	15	286	8.0 G0	1 55	55.485	325.51	.78	15 41	14.92	1753.3	-11.9	2	57.31	
1739	28	335	8.2 G5	1 56	1.820	342.68	1.24	28 37	13.33	1752.8	-12.5	2	57.33	
1744	55	466	7.6 G5	1 56	12.293	401.64	3.41	55 28	21.59	1752.1	-14.6	2	57.85	
1749	40	415	7.1 G5	1 56	40.613	364.16	1.92	41 6	28.25	1750.1	-13.3	2	57.27	
1752	81	67	7.9 M0	1 56	48.947	790.20	40.25	82 18	39.15	1749.5	-28.5	3	57.44	
1758	39	450	8.2 G5	1 57	28.989	361.78	1.83	39 43	32.39	1746.6	-13.3	2	57.29	
1759	6	314	7.6 K5	1 57	35.016	315.00	.53	6 40	34.74	1746.2	-11.7	4	58.55	
1768	47	544	8.1 K5	1 58	4.318	379.68	2.45	47 42	9.19	1744.1	-14.0	2	57.76	
1769	12	264	7.8 F5	1 58	7.433	322.71	.70	13 8	35.73	1743.9	-12.0	2	58.30	
1773	4	340	8.0 G5	1 58	31.080	313.22	.49	5 5	43.75	1742.2	-11.7	2	59.32	
1776	- 1	276	8.5 K0	1 58	48.183	306.03	.35	- 1 7	34.25	1740.9	-11.4	2	58.44	
1777	31	354	8.4 K0	1 58	50.698	348.52	1.39	31 52	49.54	1740.8	-13.0	2	58.30	
1778	44	406	8.2 G5	1 58	54.647	373.71	2.22	45 3	12.52	1740.5	-13.9	2	57.37	
1780	0	335	8.6 F5	1 59	4.777	308.60	.40	1 6	8.66	1739.8	-11.5	4	59.12	
1784	42	430	7.8 K0	1 59	20.356	368.47	2.03	42 36	32.04	1738.6	-13.7	2	57.24	
1785	36	394	8.2 F0	1 59	31.229	357.96	1.67	37 15	32.16	1737.8	-13.4	2	57.29	
1787	18	261	8.4 A0	1 59	35.628	330.45	.89	19 8	57.99	1737.5	-12.4	2	58.34	
1790	14	328	7.9 K0	1 59	46.055	325.52	.76	15 15	17.66	1736.8	-12.2	2	59.36	
1792	8	316	7.4 G5	1 59	56.415	317.71	.59	8 50	29.22	1736.0	-11.9	2	59.92	
1796	63	277	7.1 K5	2 0	5.452	444.39	5.36	63 59	52.30	1735.3	-16.6	2	58.31	
1798	35	396	7.9 K0	2 0	11.286	355.70	1.60	35 52	15.17	1734.9	-13.3	2	58.80	
1807	17	306	8.4 A2	2 0	44.359	329.27	.85	18 5	15.99	1732.5	-12.4	4	58.60	
1808	22	298	8.2 K7	2 0	49.641	335.36	1.00	22 37	59.84	1732.1	-12.7	2	58.30	
1814	56	416	8.5 A0	2 1	15.436	410.58	3.65	56 50	56.07	1730.2	-15.5	2	57.77	
1827	59	403	8.3 K0	2 2	24.602	425.33	4.30	60 2	24.26	1725.1	-16.1	2	57.30	
1829	9	266	7.4 K5	2 2	43.462	319.15	.62	9 50	17.49	1723.7	-12.3	2	58.89	
1836	4	348	8.6 F5	2 3	18.156	313.40	.50	5 4	2.15	1721.1	-12.1	2	57.30	
1842	12	282	7.3 K0	2 3	47.504	323.47	.71	13 13	26.67	1718.9	-12.5	2	57.29	
1846	69	136	8.6 G5	2 4	2.303	492.86	7.96	69 38	38.47	1717.8	-18.9	2	58.30	
1848	3	284	8.6 M0	2 4	10.550	311.74	.46	3 39	58.35	1717.2	-12.1	2	58.36	
1849	51	500	8.4 A2	2 4	10.942	395.18	2.93	51 53	30.44	1717.2	-15.2	2	58.31	
1851	0	352	7.8 K0	2 4	13.690	308.78	.41	1 12	15.82	1717.0	-12.0	2	57.75	
1862	5	285	7.0 K5	2 5	9.849	314.31	.51	5 44	52.56	1712.7	-12.3	2	58.28	
1863	15	305	7.6 K0	2 5	20.215	326.69	.78	15 34	5.23	1711.9	-12.8	3	57.44	
1866	10	292	7.6 K5	2 5	26.593	320.79	.65	10 57	13.03	1711.5	-12.5	2	57.86	
1870	- 1	296	7.6 K2	2 5	53.828	306.53	.37	- 0 39	22.24	1709.4	-12.0	2	59.33	
1878	- 3	320	8.8 K5	2 6	17.059	303.12	.31	- 3 26	31.41	1707.6	-11.9	2	57.88	
1885	53	459	7.7 K5	2 6	42.045	404.24	3.22	54 5	44.14	1705.7	-15.8	2	57.89	
1886	31	370	7.7 K2	2 6	44.097	351.32	1.40	32 4	49.06	1705.5	-13.8	2	59.88	
1888	21	291	8.8 K7	2 6	44.992	335.36	.98	21 46	25.97	1705.5	-13.2	2	58.30	
1889	22	309	8.5 G5	2 6	46.289	337.10	1.02	22 58	58.92	1705.4	-13.3	2	58.79	
1900	11	288	8.1 G0	2 7	26.620	322.16	.67	11 52	42.81	1702.3	-12.8	3	57.82	

Position 1950 + T = Position 1950 + T (1st term) + T² (2nd term) + T' (P. M.).

T in centuries from 1900.0, T' in centuries from epoch.

No.	B.D. No.		M + Sp.	R.A. 1950	Precession		Decl. 1950			Precession		No. Obs.	Epoch 1900+
					1st Term	2nd Term				1st Term	2nd Term		
1901	45	557	8.0 G5	2 7 27.114	379.59	2.28	45 41 31.03	1702.2	-15.0	2	58.34		
1905	65	234	7.9 G5	2 7 47.259	468.24	6.25	66 16 46.08	1700.7	-18.4	2	57.75		
1908	35	416	8.4 K0	2 7 57.159	358.35	1.59	35 47 12.38	1699.9	-14.2	2	58.43		
1920	47	583	7.7 K5	2 9 38.945	387.82	2.52	48 20 15.84	1692.0	-15.5	3	57.81		
1924	9	280	8.3 F0	2 9 49.720	320.09	.63	10 5 41.81	1691.2	-12.9	2	57.81		
1925	58	399	7.5 K0	2 9 54.339	426.56	4.08	58 57 45.30	1690.8	-17.1	2	57.79		
1927	13	351	7.1 K0	2 9 59.947	324.81	.73	13 41 4.51	1690.4	-13.1	2	58.29		
1928	19	332	7.7 K0	2 10 6.812	332.89	.91	19 35 15.03	1689.9	-13.4	2	58.43		
1929	- 2	379	8.1 K0	2 10 9.324	304.24	.33	- 2 27 42.57	1689.6	-12.3	2	58.86		
1941	46	538	8.6 K5	2 11 6.937	385.05	2.40	47 3 17.67	1685.1	-15.6	2	58.92		
1942	25	368	7.4 G5	2 11 10.254	343.24	1.15	26 23 36.72	1684.8	-13.9	2	58.86		
1950	18	284	8.9 A5	2 11 54.269	332.12	.88	18 49 37.21	1681.4	-13.5	2	57.29		
1951	49	602	8.4 K0	2 11 54.203	394.29	2.72	50 5 39.63	1681.4	-16.0	2	57.77		
1956	20	358	8.8 K2	2 12 6.299	334.95	.94	20 46 24.82	1680.4	-13.7	2	58.77		
1966	41	430	7.4 K5	2 12 37.927	373.68	2.00	42 14 10.78	1677.9	-15.3	2	58.79		
1968	77	78	7.9 K0	2 12 54.006	637.89	18.09	77 30 42.80	1676.6	-25.8	2	57.27		
1971	10	306	8.3 A0	2 13 11.657	321.76	.66	11 7 40.35	1675.2	-13.2	2	57.81		
1973	48	642	7.9 G5	2 13 16.300	390.71	2.56	48 38 49.30	1674.8	-16.0	2	57.22		
1983	29	385	8.9 K7	2 13 51.467	349.39	1.29	29 43 10.48	1672.0	-14.4	2	58.31		
1984	1	403	7.5 G5	2 13 53.131	309.91	.44	2 0 24.54	1671.9	-12.8	4	58.89		
1987	9	294	8.8 A0	2 13 59.082	319.71	.62	9 32 2.44	1671.4	-13.2	2	59.30		
1990	3	345	8.7 K0	2 14 18.022	303.28	.33	- 3 8 7.24	1669.9	-12.6	2	58.90		
1991	16	266	8.0 G0	2 14 18.528	330.04	.82	17 5 6.68	1669.8	-13.7	2	58.29		
1996	33	399	8.1 K0	2 14 31.431	356.38	1.47	33 32 25.57	1668.8	-14.7	2	59.47		
2001	44	456	8.3 K2	2 14 57.925	381.49	2.22	44 58 48.86	1666.6	-15.8	2	57.89		
2006	- 2	389	8.1 K0	2 15 14.860	304.38	.35	- 2 16 15.91	1665.3	-12.7	2	58.86		
2011	36	458	8.0 K2	2 15 33.938	363.14	1.65	36 50 13.24	1663.7	-15.1	2	58.79		
2015	7	362	7.0 K0	2 16 2.436	317.76	.58	7 57 3.06	1661.4	-13.3	2	57.31		
2031	31	403	7.4 K5	2 17 5.239	354.51	1.40	32 5 23.17	1656.3	-14.9	2	57.89		
2036	54	525	7.3 K0	2 17 30.958	415.80	3.39	55 10 46.68	1654.2	-17.5	2	58.31		
2038	58	450	7.1 K0	2 17 37.746	433.08	4.10	59 1 11.39	1653.6	-18.2	2	57.75		
2045	30	379	8.4 G5	2 18 8.118	351.85	1.32	30 26 48.02	1651.1	-14.9	2	57.31		
2046	9	306	8.6 G5	2 18 12.344	320.39	.62	9 46 42.14	1650.7	-13.6	2	57.82		
2049	22	331	7.2 M0	2 18 24.223	339.84	1.03	23 11 55.15	1649.8	-14.3	2	57.30		
2055	11	326	8.4 F0	2 19 10.509	323.58	.68	12 1 54.54	1645.9	-13.8	2	58.35		
2057	0	391	7.4 K2	2 19 14.550	308.31	.42	0 44 31.73	1645.6	-13.2	2	58.46		
2060	37	538	8.1 G5	2 19 20.022	365.83	1.68	37 28 17.19	1645.1	-15.6	4	59.52		
2072	- 0	357	8.5 K0	2 19 48.940	307.28	.40	- 0 2 4.48	1642.7	-13.2	2	58.42		
2073	78	82	7.9 K2	2 19 51.796	714.54	24.06	79 21 1.70	1642.5	-30.2	2	57.77		
2079	7	375	7.6 F0	2 20 17.094	318.55	.59	8 19 6.81	1640.4	-13.7	2	57.24		
2083	35	465	8.7 G5	2 20 28.934	362.37	1.57	35 36 24.65	1639.4	-15.5	2	57.29		
2084	10	318	7.6 G5	2 20 33.019	321.74	.65	10 36 35.43	1639.0	-13.9	2	57.84		
2090	55	609	8.5 A3	2 21 9.290	422.68	3.56	56 12 42.88	1636.0	-18.1	2	58.43		
2092	46	565	7.6 K0	2 21 13.980	390.57	2.40	47 8 48.68	1635.6	-16.8	2	58.41		
2095	59	483	7.7 K0	2 21 43.751	443.09	4.39	60 17 29.80	1633.1	-19.1	2	57.76		
2096	28	409	7.4 K0	2 21 45.833	350.31	1.26	29 1 8.49	1632.9	-15.2	4	59.18		
2100	73	136	8.1 K5	2 22 0.678	584.48	12.52	74 21 31.60	1631.6	-25.1	2	57.84		
2109	31	418	7.3 K2	2 22 29.353	356.30	1.40	32 10 57.01	1629.2	-15.5	2	57.30		
2114	- 3	375	8.4 K5	2 22 41.707	302.64	.33	- 3 26 33.37	1628.2	-13.2	2	59.21		
2121	6	360	8.6 G5	2 22 58.597	316.92	.56	7 0 18.46	1626.7	-13.8	4	58.65		

Position 1950 + T = Position 1950 + T (1st term) + T² (2nd term) + T' (P. M.).

T in centuries from 1900. 0, T' in centuries from epoch.

No.	B.D. No.	M + Sp.	R.A. 1950	Precession		Decl. 1950	Precession		No. Obs.	Epoch 1900+
				1st Term	2nd Term		1st Term	2nd Term		
2129	16 291	8.3 G0	2 23 56.814	331.89	.84	17 22 27.21	1621.8	-14.6	2	57.79
2131	22 347	8.0 G5	2 24 8.327	340.13	1.00	22 39 17.18	1620.8	-14.9	2	57.85
2142	- 1 338	7.1 K5	2 24 56.234	305.98	.38	- 0 58 30.71	1616.6	-13.5	2	58.32
2155	23 330	8.4 A2	2 25 56.711	342.12	1.04	23 38 51.87	1611.4	-15.2	2	57.76
2162	52 587	8.3 K0	2 26 17.737	412.37	3.04	52 50 21.20	1609.6	-18.3	2	58.88
2165	30 399	7.7 K0	2 26 23.846	354.52	1.32	30 38 34.49	1609.1	-15.7	2	58.43
2168	43 504	7.9 K2	2 26 36.724	384.18	2.11	43 56 1.57	1607.9	-17.1	2	58.30
2171	5 343	8.1 K2	2 26 54.426	315.08	.52	5 32 42.44	1606.4	-14.1	2	58.30
2176	47 640	7.6 K0	2 27 7.088	395.04	2.44	47 37 55.16	1605.3	-17.6	2	58.35
2185	18 315	8.2 K0	2 27 42.842	334.10	.87	18 26 34.78	1602.2	-15.0	2	57.86
2213	- 4 412	8.7 A5	2 29 5.754	301.38	.32	- 4 12 0.80	1594.9	-13.6	2	57.94
2217	20 416	7.2 G5	2 29 25.418	338.28	.95	20 53 52.65	1593.1	-15.3	2	58.46
2221	6 380	7.6 K0	2 29 33.677	316.57	.55	6 29 50.34	1592.4	-14.3	2	58.30
2222	- 1 352	7.9 K2	2 29 35.801	305.32	.38	- 1 24 53.39	1592.2	-13.9	2	57.94
2224	14 418	8.6 F2	2 29 53.878	329.02	.76	14 56 34.55	1590.6	-14.9	2	59.34
2226	80 80	7.9 K5	2 29 57.863	846.65	35.72	81 25 31.02	1590.3	-37.9	2	57.79
2228	29 434	7.2 K0	2 30 10.652	353.86	1.28	29 44 43.38	1589.1	-16.1	2	58.35
2235	5 356	8.0 K0	2 30 49.934	315.17	.53	5 28 51.40	1585.6	-14.4	2	57.29
2254	2 400	8.2 G5	2 32 15.173	310.83	.46	2 26 3.36	1578.0	-14.3	2	58.32
2260	- 0 387	8.6 K0	2 32 20.307	306.48	.40	- 0 35 18.34	1577.6	-14.1	2	58.35
2261	30 414	8.6 K0	2 32 24.000	355.82	1.31	30 27 47.72	1577.2	-16.3	2	57.37
2266	62 426	7.5 K0	2 32 36.198	471.29	5.19	63 16 46.81	1576.1	-21.6	2	57.84
2268	38 510	8.1 K0	2 32 41.163	374.99	1.77	39 19 50.60	1575.7	-17.2	2	57.78
2270	28 437	8.2 A3	2 32 45.801	353.13	1.24	29 0 15.47	1575.3	-16.2	2	59.31
2272	15 354	8.1 K2	2 32 54.664	331.65	.80	16 23 41.34	1574.5	-15.3	2	58.30
2273	74 112	8.0 G0	2 32 56.611	619.54	13.77	75 9 53.42	1574.3	-28.3	2	57.84
2275	13 410	7.8 K5	2 32 58.491	327.34	.73	13 35 58.11	1574.1	-15.1	2	58.34
2276	9 339	8.8 K5	2 33 0.998	321.77	.63	9 54 18.36	1573.9	-14.9	2	59.35
2278	26 432	8.4 G5	2 33 14.719	349.44	1.16	26 56 57.96	1572.7	-16.1	2	58.78
2283	72 141	8.1 K2	2 33 39.459	585.31	11.35	73 22 16.20	1570.4	-26.8	2	58.34
2286	36 524	8.4 K0	2 33 51.630	370.27	1.64	37 8 16.23	1569.3	-17.1	2	60.03
2289	17 403	8.5 A3	2 34 0.979	333.90	.84	17 42 52.27	1568.5	-15.5	2	59.93
2298	11 365	7.4 G5	2 35 2.613	325.20	.69	12 3 12.81	1562.9	-15.2	2	57.28
2308	19 394	7.4 K0	2 35 48.506	337.09	.90	19 30 44.51	1558.7	-15.8	3	57.51
2325	7 408	8.3 K0	2 37 5.985	319.20	.58	7 59 18.60	1551.5	-15.1	2	57.89
2328	70 198	7.2 K0	2 37 14.407	559.05	9.42	71 24 47.13	1550.7	-26.1	2	57.74
2333	35 531	8.1 K5	2 37 26.537	368.42	1.56	35 47 31.03	1549.6	-17.4	2	58.30
2338	12 370	7.3 K0	2 37 43.118	327.41	.72	13 18 48.29	1548.1	-15.5	2	58.34
2339	17 414	7.6 F5	2 37 45.053	335.54	.86	18 23 8.41	1547.9	-15.9	2	58.32
2340	20 444	8.2 G5	2 37 49.657	339.94	.94	21 0 31.67	1547.5	-16.1	2	58.32
2343	67 222	7.0 K2	2 38 2.771	516.18	7.04	67 51 6.11	1546.3	-24.3	2	59.31
2346	- 2 469	8.5 K0	2 38 8.786	304.15	.37	- 2 8 17.59	1545.7	-14.4	2	58.42
2350	24 381	8.1 A0	2 38 16.496	347.74	1.09	25 24 4.09	1545.0	-16.5	2	58.99
2351	40 568	8.1 G0	2 38 17.948	380.46	1.86	40 40 5.27	1544.9	-18.0	2	59.36
2355	44 560	7.7 K5	2 38 36.031	391.96	2.17	44 47 19.93	1543.2	-18.6	2	57.38
2357	21 366	8.2 K0	2 38 39.286	341.84	.97	22 1 53.44	1542.9	-16.2	2	57.78
2384	1 474	7.9 M0	2 40 43.542	309.61	.44	1 31 5.90	1531.3	-14.9	2	57.28
2385	23 362	7.6 K0	2 40 44.918	345.47	1.04	23 51 42.39	1531.1	-16.6	2	57.79
2393	54 602	8.8 A0	2 41 23.974	429.76	3.28	54 45 14.80	1527.5	-20.6	2	57.90
2394	44 569	7.7 F8	2 41 28.786	395.06	2.21	45 23 20.93	1527.0	-18.9	2	58.31

Position 1950 + T = Position 1950 + T (1st term) + T² (2nd term) + T' (P. M.).

T in centuries from 1900.0, T' in centuries from epoch.

No.	B.D. No.		M + Sp.	R.A. 1950	Precession		Decl. 1950			Precession		No. Obs.	Epoch 1900+
					1st Term	2nd Term				1st Term	2nd Term		
2399	8	416	8.5 G0	2 41 44.966	321.08	.61	9 1 9.92	1525.5	-15.5	2	58.77		
2403	28	456	8.4 K2	2 42 11.321	354.78	1.22	28 38 46.98	1523.0	-17.1	2	58.32		
2409	13	446	8.1 A0	2 42 41.346	328.59	.72	13 43 19.66	1520.1	-15.9	2	58.27		
2411	33	503	7.8 K2	2 42 43.607	366.56	1.47	34 13 11.73	1519.9	-17.7	3	60.77		
2413	16	342	7.3 K0	2 42 55.945	333.67	.81	16 48 40.30	1518.7	-16.2	2	57.94		
2420	64	346	8.0 G5	2 43 28.408	490.43	5.56	64 28 36.12	1515.7	-23.7	3	58.81		
2422	38	551	8.7 K0	2 43 38.247	377.94	1.72	38 54 13.51	1514.7	-18.4	2	58.90		
2428	42	628	7.3 K0	2 44 7.198	389.68	2.02	43 11 36.92	1511.9	-19.0	2	58.43		
2431	21	374	8.2 G5	2 44 16.102	343.50	.98	22 23 42.85	1511.1	-16.8	2	57.89		
2442	17	438	7.7 K5	2 44 44.730	336.43	.85	18 18 8.16	1508.3	-16.5	2	57.90		
2454	19	424	8.3 A3	2 45 30.137	339.12	.90	19 48 9.47	1504.0	-16.7	2	56.96		
2465	32	507	8.6 K0	2 46 3.072	364.77	1.40	32 58 7.86	1500.8	-17.9	2	57.75		
2468	20	467	8.9 G5	2 46 18.109	341.46	.93	21 3 8.20	1499.3	-16.8	2	59.30		
2470	- 4	476	7.0 K5	2 46 32.186	300.44	.34	- 4 25 54.41	1497.9	-14.9	2	57.78		
2496	44	591	7.6 K5	2 48 24.410	396.46	2.14	44 51 16.48	1487.1	-19.7	2	58.53		
2499	51	640	7.7 G5	2 48 29.377	422.01	2.87	51 59 42.36	1486.6	-20.9	2	58.43		
2511	6	436	8.0 G5	2 48 55.919	318.90	.57	7 20 41.21	1484.0	-15.9	2	59.31		
2513	15	397	8.0 K5	2 49 5.292	333.60	.79	16 17 35.01	1483.1	-16.7	2	57.78		
2517	75	109	7.9 G5	2 49 49.906	678.08	15.79	76 19 33.44	1478.7	-33.7	2	59.34		
2523	28	473	8.4 A0	2 50 4.396	357.91	1.22	29 15 25.42	1477.3	-17.9	2	58.92		
2534	14	484	7.7 M0	2 50 52.922	330.71	.74	14 28 1.28	1472.5	-16.7	2	58.00		
2536	18	370	8.8 A5	2 50 57.725	337.55	.85	18 25 51.69	1472.0	-17.0	2	58.39		
2549	10	388	8.1 A3	2 51 38.028	325.19	.65	11 6 24.54	1468.0	-16.4	2	57.78		
2554	46	656	6.9 K0	2 52 10.518	405.48	2.32	47 6 9.46	1464.8	-20.5	2	58.32		
2557	37	660	8.4 G5	2 52 15.423	378.09	1.63	37 47 50.82	1464.3	-19.1	2	57.90		
2562	- 3	459	8.2 K0	2 52 26.814	301.73	.35	- 3 30 30.80	1463.2	-15.3	2	58.90		
2567	22	405	8.9 K7	2 52 37.261	345.62	.98	22 43 56.68	1462.1	-17.5	2	58.34		
2580	85	50	8.8 B9	2 53 4.742	1515.90	127.34	85 39 59.31	1459.3	-76.0	2	59.35		
2585	72	153	7.9 G5	2 53 21.325	597.69	10.29	72 28 21.85	1457.7	-30.2	2	59.45		
2586	5	420	7.2 K0	2 53 25.438	316.93	.54	5 58 24.19	1457.3	-16.2	2	59.44		
2608	17	461	7.3 K0	2 55 6.139	336.68	.82	17 36 49.29	1447.2	-17.3	2	57.78		
2627	26	496	8.4 K2	2 57 0.506	354.20	1.11	26 41 26.81	1435.6	-18.3	2	57.40		
2635	- 0	471	8.4 K0	2 57 34.219	307.39	.42	0 2 15.83	1432.2	-16.0	2	58.35		
2637	74	128	7.6 G5	2 57 42.910	649.55	12.93	74 42 48.89	1431.3	-33.4	2	58.30		
2638	22	416	7.3 G5	2 57 42.931	346.32	.97	22 37 52.93	1431.3	-18.0	2	57.90		
2642	12	422	8.4 K5	2 58 1.455	328.59	.69	12 47 15.80	1429.4	-17.1	4	59.40		
2643	35	607	7.2 K2	2 58 7.315	375.21	1.52	35 55 15.40	1428.8	-19.5	2	58.43		
2650	42	681	8.4 A2	2 58 19.007	393.28	1.92	42 30 17.03	1427.6	-20.4	2	58.84		
2668	40	653	8.7 K0	2 59 34.398	389.49	1.81	41 3 46.86	1419.9	-20.3	2	57.94		
2669	37	688	8.9 A2	2 59 34.802	380.31	1.61	37 44 13.96	1419.8	-19.9	2	57.87		
2677	19	449	8.3 K0	3 0 18.211	342.02	.88	20 8 27.46	1415.3	-18.0	2	57.83		
2682	10	405	7.8 K5	3 0 33.684	325.27	.64	10 43 44.76	1413.8	-17.1	2	58.89		
2686	13	494	7.8 K0	3 0 47.423	331.45	.72	14 16 33.93	1412.3	-17.4	2	58.42		
2688	50	691	8.7 G5	3 1 1.650	425.24	2.70	51 10 17.59	1410.9	-22.3	2	58.34		
2692	45	700	8.8 G5	3 1 27.012	406.28	2.19	46 8 36.65	1408.2	-21.4	2	58.31		
2694	- 4	520	8.0 K5	3 1 41.744	299.80	.34	- 4 31 15.27	1406.7	-15.9	2	58.43		
2703	8	461	8.2 K0	3 1 59.654	322.14	.59	8 50 4.75	1404.8	-17.0	2	58.46		
2711	25	484	8.6 A5	3 2 33.845	353.25	1.06	25 40 32.13	1401.3	-18.7	2	57.93		
2712	27	477	8.5 A0	3 2 36.140	357.44	1.13	27 40 35.41	1401.1	-18.9	2	59.35		
2715	22	431	7.7 K5	3 2 46.879	347.72	.97	22 54 3.86	1399.9	-18.4	2	57.94		

Position 1950 + T = Position 1950 + T (1st term) + T² (2nd term) + T' (P. M.).

T in centuries from 1900. 0, T' in centuries from epoch.

No.	B.D. No.	M + Sp.	R.A. 1950	Precession		Decl. 1950	Precession		No. Obs.	Epoch 1900+
				1st Term	2nd Term		1st Term	2nd Term		
2718	17 489	8.4 A2	3 2 57.915	338.40	.82	17 59 12.27	1398.8	-18.0	2	58.30
2720	58 556	7.6 K0	3 3 4.763	463.01	3.79	58 24 29.73	1398.1	-24.5	2	58.88
2726	11 434	7.2 K5	3 3 33.433	326.80	.65	11 28 22.25	1395.1	-17.4	2	58.46
2730	3 431	8.0 A2	3 3 45.625	313.40	.48	3 37 3.95	1393.8	-16.7	2	58.31
2731	53 616	8.4 A0	3 3 48.503	440.95	3.09	54 17 37.35	1393.5	-23.4	2	57.40
2743	4 496	8.6 K2	3 4 36.862	315.47	.51	4 49 41.19	1388.4	-16.9	2	57.85
2752	0 522	7.4 K0	3 5 4.965	309.37	.44	1 12 53.03	1385.5	-16.6	2	56.95
2754	12 441	8.2 K0	3 5 27.666	329.62	.68	12 58 44.69	1383.1	-17.7	2	58.42
2781	- 3 502	8.8 A5	3 6 56.616	301.51	.36	- 3 25 25.51	1373.6	-16.3	2	57.83
2800	6 492	8.3 K0	3 8 29.918	318.79	.54	6 40 44.33	1363.7	-17.3	2	57.93
2807	73 171	6.7 M0	3 8 48.766	650.53	11.83	74 3 24.00	1361.7	-35.1	2	57.85
2809	29 534	8.2 A2	3 8 55.428	363.15	1.19	29 38 39.21	1361.0	-19.7	2	57.81
2813	7 481	8.4 B9	3 9 1.289	321.00	.57	7 55 50.97	1360.4	-17.5	2	57.87
2823	30 505	7.8 K2	3 10 7.034	366.27	1.24	30 52 57.88	1353.3	-20.0	2	57.96
2825	24 451	8.8 A2	3 10 11.384	353.99	1.03	25 19 43.13	1352.8	-19.3	2	58.34
2840	63 404	8.8 B8	3 10 53.284	508.00	5.07	63 46 22.75	1348.3	-27.7	2	59.00
2842	32 585	8.5 G5	3 11 3.623	372.41	1.34	33 20 29.87	1347.2	-20.4	2	57.81
2850	8 480	8.2 G5	3 11 41.753	323.06	.59	9 0 59.34	1343.1	-17.8	2	58.30
2851	12 453	8.6 A0	3 11 42.058	330.02	.67	12 53 18.57	1343.0	-18.1	2	58.42
2859	- 2 581	7.4 M0	3 12 4.525	302.96	.37	- 2 31 5.10	1340.6	-16.7	2	59.33
2861	59 616	7.3 K0	3 12 10.307	478.96	4.03	59 55 54.35	1340.0	-26.2	2	57.96
2862	3 447	8.8 A0	3 12 18.269	314.48	.49	4 6 55.43	1339.1	-17.3	4	59.46
2863	15 453	8.0 G0	3 12 18.304	335.97	.75	16 4 16.16	1339.1	-18.5	2	58.45
2873	41 641	8.3 A5	3 12 49.967	396.01	1.79	41 40 35.32	1335.7	-21.8	2	57.94
2880	- 1 466	8.4 G5	3 12 58.589	306.17	.40	- 0 39 48.20	1334.8	-16.9	2	59.37
2883	61 546	8.8 K0	3 13 20.796	491.53	4.40	61 32 45.34	1332.3	-27.0	2	58.34
2893	2 510	8.8 K2	3 14 9.922	311.99	.46	2 39 58.66	1327.0	-17.3	2	58.30
2896	53 639	8.4 F8	3 14 13.663	443.74	2.92	53 42 42.66	1326.6	-24.5	2	57.41
2902	81 107	7.0 M0	3 14 50.765	1019.07	39.59	81 58 13.96	1322.5	-56.1	2	57.28
2917	42 738	8.4 K0	3 15 57.672	399.49	1.83	42 25 45.19	1315.2	-22.2	2	57.37
2922	67 256	7.2 K0	3 16 11.612	560.62	6.86	68 16 37.22	1313.6	-31.1	2	57.86
2923	47 802	8.2 A0	3 16 11.638	418.20	2.24	47 41 23.78	1313.6	-23.3	2	57.94
2924	36 676	7.9 K0	3 16 15.596	382.55	1.48	36 41 44.43	1313.2	-21.3	2	57.97
2932	45 740	7.5 K5	3 16 54.878	411.00	2.06	45 41 37.19	1308.9	-23.0	2	57.97
2933	57 715	7.8 K0	3 16 56.893	467.38	3.52	57 41 40.99	1308.6	-26.1	2	59.32
2934	19 507	8.4 A2	3 16 59.697	344.36	.85	20 5 48.84	1308.3	-19.3	4	59.62
2937	0 565	7.5 K0	3 17 10.101	309.13	.43	1 1 6.81	1307.2	-17.4	2	58.86
2939	24 471	7.7 K0	3 17 29.946	353.25	.98	24 21 49.04	1305.0	-19.8	2	58.31
2943	5 479	8.8 A0	3 17 36.177	318.06	.52	6 2 29.64	1304.3	-17.9	3	59.53
2945	26 542	8.0 G5	3 17 38.803	358.47	1.05	26 44 51.34	1304.0	-20.1	2	58.90
2946	82 82	7.3 K0	3 17 41.594	1178.08	55.78	83 21 7.44	1303.7	-65.5	2	58.41
2953	- 4 570	8.6 G5	3 18 7.858	299.27	.34	- 4 31 57.33	1300.8	-16.9	2	59.35
2956	7 500	8.2 B9	3 18 19.599	322.12	.56	8 16 19.05	1299.5	-18.1	4	58.99
2958	10 432	7.9 F8	3 18 34.929	326.11	.61	10 27 3.82	1297.8	-18.4	2	57.85
2980	48 904	8.0 K2	3 20 20.553	423.70	2.30	48 37 47.34	1286.0	-24.0	2	56.95
2989	16 436	8.2 F5	3 21 3.250	337.85	.75	16 32 41.31	1281.2	-19.2	2	57.87
2991	19 523	6.9 K5	3 21 8.520	344.18	.83	19 43 49.42	1280.6	-19.6	2	57.39
3000	14 559	8.3 A2	3 21 57.129	334.56	.70	14 47 52.66	1275.2	-19.1	2	58.36
3007	62 566	7.3 G5	3 22 18.457	510.08	4.68	63 1 15.17	1272.8	-29.0	3	59.26
3009	1 590	8.3 K5	3 22 20.380	310.57	.44	1 48 2.07	1272.6	-17.8	2	57.82

Position 1950 + T = Position 1950 + T (1st term) + T² (2nd term) + T' (P. M.).

T in centuries from 1900.0, T' in centuries from epoch.

No.	B.D. No.		M + Sp.	R.A. 1950		Precession		Decl. 1950		Precession		No. Obs.	Epoch 1900+
						1st Term	2nd Term			1st Term	2nd Term		
3011	65	345	7.4 K0	3 22	21.512	539.60	5.71	66 2	12.79	1272.4	-30.7	2	57.42
3012	55	785	7.4 K5	3 22	25.156	460.22	3.17	55 58	0.87	1272.0	-26.2	2	58.88
3014	6	527	8.8 F8	3 22	26.373	320.41	.54	7 13	6.26	1271.9	-18.3	2	58.90
3042	- 0	546	7.1 K0	3 24	15.502	307.06	.41	- 0 8	51.74	1259.6	-17.7	2	57.38
3047	23	456	8.1 G5	3 24	52.471	353.72	.94	24 0	36.82	1255.4	-20.4	2	56.95
3050	32	629	8.1 G0	3 25	2.898	374.08	1.25	32 38	20.10	1254.2	-21.5	2	58.77
3052	39	789	7.3 K0	3 25	12.259	394.82	1.62	39 59	55.82	1253.2	-22.8	2	58.99
3054	16	444	8.2 F2	3 25	19.227	339.21	.75	16 59	42.91	1252.3	-19.6	2	57.84
3069	15	493	8.2 F0	3 26	30.584	337.42	.72	16 1	38.07	1244.2	-19.5	2	57.84
3073	44	717	8.3 A0	3 27	9.163	411.08	1.92	44 39	45.49	1239.8	-23.8	2	57.40
3075	57	727	8.8 K7	3 27	21.041	477.59	3.52	58 19	26.44	1238.4	-27.6	2	58.30
3082	9	447	7.3 K0	3 27	42.949	326.42	.59	10 17	19.33	1235.9	-19.0	2	58.86
3091	7	514	8.4 K5	3 28	11.934	322.51	.55	8 11	55.39	1232.6	-18.8	2	57.88
3094	6	540	7.9 K0	3 28	21.131	320.32	.53	7 1	42.86	1231.5	-18.7	2	57.94
3108	18	494	8.1 A0	3 28	52.143	342.93	.78	18 37	52.01	1228.0	-20.0	2	58.76
3111	29	571	8.2 A0	3 29	5.394	367.94	1.13	29 50	14.16	1226.4	-21.5	2	58.88
3117	27	519	8.5 K5	3 29	35.354	364.08	1.06	28 11	51.20	1223.0	-21.3	2	58.43
3131	13	568	7.4 G5	3 30	34.459	333.05	.66	13 36	54.76	1216.1	-19.6	2	57.39
3136	62	581	8.1 K2	3 30	45.821	510.26	4.37	62 21	31.68	1214.8	-29.8	2	58.42
3137	14	575	8.0 M0	3 30	48.249	334.84	.68	14 30	39.85	1214.5	-19.7	2	57.27
3141	73	188	8.2 K5	3 30	57.501	666.26	10.50	73 29	46.81	1213.4	-38.9	2	57.85
3142	9	453	8.6 K2	3 31	1.411	325.16	.57	9 31	0.44	1213.0	-19.1	3	58.83
3161	2	563	8.2 K0	3 32	16.494	313.29	.45	3 11	40.89	1204.3	-18.5	2	58.40
3162	10	460	7.6 G0	3 32	19.366	327.86	.60	10 52	47.33	1203.9	-19.4	2	58.31
3167	46	774	7.4 G5	3 32	34.241	419.67	2.02	46 25	8.92	1202.2	-24.7	2	57.94
3171	52	703	6.9 K5	3 32	41.419	448.06	2.63	52 46	0.37	1201.4	-26.4	2	58.42
3172	79	106	8.6 K0	3 32	45.919	934.03	26.89	80 18	46.59	1200.9	-54.8	2	57.99
3173	65	352	8.9 K2	3 33	0.729	543.83	5.36	65 38	36.92	1199.1	-32.0	2	58.90
3181	8	537	7.7 K0	3 33	29.612	323.78	.55	8 43	18.54	1195.7	-19.2	2	58.87
3190	30	557	8.0 G5	3 34	0.859	371.76	1.15	30 57	40.82	1192.0	-22.0	2	58.30
3199	36	732	7.2 G5	3 34	41.153	389.24	1.41	37 16	3.64	1187.3	-23.1	2	58.46
3202	0	622	8.0 K0	3 35	3.639	309.13	.42	0 57	33.50	1184.7	-18.4	2	57.86
3206	60	720	8.1 K0	3 35	12.253	503.15	4.00	61 9	39.69	1183.7	-29.8	2	57.84
3232	15	516	8.3 A0	3 37	10.702	338.85	.70	16 11	56.83	1169.7	-20.3	2	57.39
3234	26	596	8.5 A3	3 37	12.610	361.97	.98	26 43	36.04	1169.5	-21.7	2	57.39
3249	77	131	8.5 K0	3 38	6.239	815.04	17.69	77 54	11.18	1163.1	-48.6	2	57.29
3252	34	712	7.8 K0	3 38	11.229	383.03	1.28	34 49	14.57	1162.5	-23.0	2	58.76
3257	18	521	8.3 A0	3 38	33.465	345.34	.77	19 13	44.39	1159.9	-20.8	2	57.83
3259	38	788	8.1 K0	3 38	42.832	394.56	1.46	38 39	53.68	1158.8	-23.7	2	58.46
3275	20	616	8.0 F8	3 39	46.107	349.58	.81	21 7	23.49	1151.2	-21.1	2	57.88
3280	11	510	8.2 F5	3 40	6.882	330.20	.60	11 48	8.16	1148.8	-20.0	2	57.39
3285	44	782	7.4 K5	3 40	37.287	415.95	1.82	44 43	38.84	1145.1	-25.1	2	57.38
3300	48	987	8.0 K2	3 41	32.674	430.89	2.09	48 19	52.14	1138.5	-26.1	2	57.87
3301	- 2	707	8.5 K0	3 41	35.043	303.24	.37	- 2 7	42.22	1138.2	-18.4	2	58.31
3307	1	656	8.2 K2	3 42	4.607	310.75	.42	1 46	56.32	1134.7	-18.9	2	58.88
3309	31	644	7.9 K2	3 42	18.480	376.55	1.16	32 7	53.79	1133.0	-22.8	2	58.88
3310	6	581	8.4 A2	3 42	22.640	319.85	.50	6 28	49.73	1132.5	-19.5	2	57.86
3318	2	603	7.8 K2	3 42	57.767	313.28	.44	3 5	3.59	1128.3	-19.1	2	57.89
3323	36	749	8.5 K0	3 43	12.204	390.58	1.35	36 59	35.04	1126.5	-23.8	2	58.39
3326	10	479	7.7 G5	3 43	22.317	327.61	.56	10 23	37.80	1125.3	-20.0	2	58.99

Position 1950 + T = Position 1950 + T (1st term) + T² (2nd term) + T' (P. M.).

T in centuries from 1900. 0, T' in centuries from epoch.

No.	B. D. No.	M + Sp.	R.A. 1950	Precession		Decl. 1950	Precession		No. Obs.	Epoch 1900+
				1st Term	2nd Term		1st Term	2nd Term		
3327	46 795	7.4 K2	3 43 27.345	423.72	1.93	46 27 48.90	1124.7	-25.8	2	59.03
3332	49 1024	7.5 K0	3 43 57.380	440.31	2.24	50 12 36.62	1121.1	-26.8	2	58.88
3333	84 66	8.4 M0	3 44 3.180	1494.86	78.23	84 40 13.45	1120.4	-90.6	2	58.28
3335	4 588	8.6 A0	3 44 11.382	316.49	.47	4 43 35.29	1119.4	-19.4	2	59.34
3339	12 508	8.4 G5	3 44 38.704	331.64	.60	12 21 16.96	1116.1	-20.3	2	57.90
3343	66 290	7.2 G5	3 44 52.087	569.13	5.63	67 0 48.58	1114.5	-34.7	2	57.87
3346	55 827	8.4 A0	3 45 6.764	470.34	2.86	55 42 57.13	1112.7	-28.7	2	57.94
3349	26 617	7.9 K2	3 45 17.456	362.61	.94	26 26 10.78	1111.4	-22.2	2	58.89
3354	30 576	9.0 G0	3 45 28.804	372.87	1.07	30 30 14.78	1110.0	-22.9	2	58.91
3368	8 573	8.1 G5	3 46 48.620	323.65	.52	8 18 56.52	1100.3	-19.9	2	58.45
3378	15 537	8.1 F5	3 47 23.393	339.09	.66	15 50 58.38	1096.1	-20.9	2	57.94
3387	65 373	7.3 G0	3 48 4.617	551.94	4.94	65 22 57.17	1091.0	-34.0	4	59.14
3399	43 832	8.4 A2	3 48 39.449	413.95	1.67	43 31 23.32	1086.8	-25.6	2	57.42
3401	11 530	8.4 G0	3 48 41.183	331.03	.58	11 55 19.11	1086.6	-20.5	2	57.89
3403	75 151	8.2 M0	3 48 46.941	753.00	12.82	75 51 22.80	1085.9	-46.4	2	57.98
3405	47 904	8.4 M0	3 48 57.702	431.96	1.98	47 57 45.27	1084.5	-26.7	2	58.90
3409	2 618	8.4 A2	3 49 8.696	312.47	.42	2 37 6.48	1083.2	-19.4	2	59.35
3417	- 3 625	8.6 F5	3 49 36.212	300.31	.34	- 3 33 55.75	1079.8	-18.7	2	59.32
3425	22 588	8.6 K2	3 50 23.312	355.16	.82	22 58 33.57	1074.0	-22.1	2	59.02
3427	45 836	7.5 K0	3 50 29.557	421.62	1.77	45 21 53.71	1073.3	-26.2	2	57.96
3434	49 1057	8.4 K0	3 50 55.308	440.10	2.10	49 36 19.27	1070.1	-27.3	2	58.94
3435	14 624	8.1 G5	3 50 59.692	337.68	.64	15 2 15.49	1069.5	-21.0	2	58.40
3437	40 855	8.4 K0	3 51 11.688	406.22	1.51	41 10 31.55	1068.1	-25.3	2	59.47
3440	62 622	8.1 G0	3 51 32.206	529.38	4.15	62 59 39.64	1065.5	-32.9	4	59.40
3443	25 642	8.4 K0	3 51 39.650	361.42	.89	25 32 23.05	1064.6	-22.5	2	58.99
3445	16 528	8.5 B9	3 51 45.210	342.38	.68	17 11 51.32	1063.9	-21.4	2	58.30
3453	4 602	8.3 A0	3 52 3.141	316.85	.45	4 48 14.02	1061.7	-19.8	2	59.33
3462	10 502	8.5 G5	3 52 27.201	329.71	.56	11 9 31.87	1058.7	-20.6	2	58.92
3470	33 747	8.1 G0	3 53 26.414	384.09	1.16	34 0 38.98	1051.4	-24.1	2	57.29
3477	19 625	8.6 A2	3 53 58.191	348.65	.73	19 56 22.89	1047.5	-21.9	2	57.39
3478	2 628	7.2 K0	3 54 0.884	313.12	.42	2 54 50.02	1047.1	-19.7	2	58.30
3495	51 817	7.3 K2	3 55 5.611	450.24	2.22	51 21 24.02	1039.1	-28.3	2	57.96
3496	15 557	7.9 G5	3 55 9.533	338.99	.63	15 29 7.52	1038.6	-21.4	4	59.10
3508	8 605	8.7 K5	3 56 3.814	325.23	.51	8 53 3.23	1031.8	-20.5	4	59.16
3517	66 301	8.5 A2	3 56 20.249	576.16	5.27	66 54 22.11	1029.7	-36.2	2	58.28
3520	45 858	8.6 A0	3 56 23.085	424.23	1.73	45 33 25.43	1029.4	-26.7	2	57.42
3533	63 470	8.1 K0	3 57 6.470	545.12	4.35	64 13 4.31	1024.0	-34.4	4	59.14
3541	9 525	8.2 A0	3 57 48.530	327.67	.52	10 1 38.61	1018.7	-20.8	2	58.30
3542	13 627	7.5 K0	3 57 49.024	335.49	.59	13 45 8.23	1018.7	-21.3	2	57.85
3543	47 927	6.9 K0	3 57 49.539	432.08	1.84	47 18 39.19	1018.5	-27.3	2	57.96
3548	38 832	8.0 K2	3 58 14.941	399.05	1.32	38 31 34.59	1015.4	-25.3	2	57.53
3565	6 617	8.4 G5	3 59 23.658	320.26	.46	6 23 8.29	1006.7	-20.4	2	57.42
3576	18 574	8.8 G5	4 0 16.914	346.14	.68	18 31 52.83	1000.0	-22.1	2	57.84
3577	14 643	8.1 F8	4 0 17.840	336.94	.60	14 20 46.96	999.9	-21.5	2	58.31
3578	8 625	6.9 K0	4 0 27.818	325.14	.50	8 44 43.37	998.6	-20.8	2	58.89
3583	2 641	7.4 K2	4 0 44.308	313.51	.42	3 3 2.67	996.6	-20.0	2	57.96
3605	- 3 676	8.1 F0	4 2 1.874	300.26	.33	- 3 28 30.95	986.7	-19.3	2	57.96
3606	39 921	7.5 K0	4 2 5.554	405.51	1.36	40 9 59.99	986.2	-25.9	2	57.85
3612	31 700	7.3 K5	4 2 24.009	378.28	1.01	31 21 44.27	983.8	-24.3	2	57.88
3613	22 629	8.5 K0	4 2 25.338	356.82	.77	23 2 1.56	983.7	-22.9	2	57.99

Position 1950 + T = Position 1950 + T (1st term) + T² (2nd term) + T' (P. M.).

T in centuries from 1900.0, T' in centuries from epoch.

No.	B.D. No.		M + Sp.	R.A. 1950		Precession		Decl. 1950			Precession		No. Obs.	Epoch 1900+				
						1st Term	2nd Term				1st Term	2nd Term						
3618	76	149	8.6 G5	4	2	52.785	806.64	13.56	76	51	43.98	980.2	-51.5	2	58.28			
3629	-	0	642	8.4	G5	4	3	35.400	307.01	.37	-	0	9	18.72	974.8	-19.8	2	58.42
3631	21	591	8.0 K2	4	3	36.822	354.08	.74	21	49	21.67	974.6	-22.8	2	58.86			
3646	7	597	8.4 K0	4	4	12.378	323.88	.48	8	3	30.28	970.1	-20.9	2	58.43			
3661	3	563	8.4 F5	4	5	15.415	315.86	.42	4	9	54.54	962.1	-20.4	2	57.97			
3668	25	678	7.6 K0	4	5	36.812	363.90	.82	25	44	45.66	959.3	-23.5	2	57.85			
3672	9	543	6.8 M0	4	5	57.977	327.97	.50	9	58	6.23	956.6	-21.2	2	57.99			
3691	55	852	7.5 K5	4	7	13.524	480.49	2.53	55	46	52.47	946.9	-31.1	2	56.94			
3705	13	651	8.6 K0	4	8	10.469	337.08	.57	14	8	55.15	939.6	-21.9	2	57.82			
3708	21	603	8.7 G5	4	8	24.151	354.88	.72	21	55	57.19	937.8	-23.1	2	58.34			
3710	1	713	7.8 M0	4	8	33.316	311.85	.39	2	11	23.10	936.7	-20.3	2	58.43			
3715	36	844	8.0 K0	4	8	57.513	395.41	1.16	36	41	7.10	933.5	-25.7	2	58.86			
3721	69	243	7.7 K0	4	9	8.021	621.69	5.91	69	22	48.32	932.2	-40.3	2	58.32			
3728	47	953	8.8 K2	4	9	25.034	437.77	1.75	47	46	49.74	930.0	-28.5	2	59.02			
3729	17	694	8.2 K2	4	9	45.369	345.14	.63	17	42	26.93	927.3	-22.5	2	59.34			
3732	33	811	8.4 G5	4	9	47.437	386.08	1.03	33	36	55.42	927.1	-25.2	2	58.99			
3737	10	548	7.8 F2	4	10	1.467	330.46	.51	11	2	40.79	925.2	-21.6	2	58.90			
3742	28	632	8.3 M0	4	10	17.607	373.06	.89	28	59	47.71	923.2	-24.3	2	57.95			
3743	39	956	7.3 K5	4	10	20.856	405.29	1.26	39	33	14.66	922.8	-26.4	2	59.34			
3746	44	881	8.0 A5	4	10	40.129	424.48	1.52	44	37	26.00	920.3	-27.7	2	58.44			
3758	14	672	8.3 K0	4	11	30.428	337.91	.56	14	25	24.38	913.8	-22.1	2	58.34			
3766	7	620	8.1 G0	4	12	21.682	322.57	.45	7	17	24.10	907.1	-21.2	2	57.89			
3772	8	656	8.7 A0	4	12	36.222	324.73	.46	8	18	18.68	905.2	-21.3	2	57.81			
3784	61	690	7.8 M0	4	13	16.078	534.00	3.45	62	13	26.66	900.0	-35.0	2	57.51			
3788	25	690	7.8 K5	4	13	38.191	366.21	.80	26	14	6.09	897.1	-24.1	2	57.86			
3796	74	197	8.0 K5	4	14	7.590	739.85	9.44	74	32	29.37	893.3	-48.5	2	58.30			
3806	52	806	8.0 K2	4	14	41.046	465.40	2.09	52	51	10.61	888.9	-30.6	2	57.83			
3807	2	673	7.6 G5	4	14	41.076	312.36	.38	2	24	28.04	888.9	-20.6	2	57.99			
3809	19	692	7.5 K0	4	14	43.150	349.59	.64	19	26	21.44	888.7	-23.0	2	58.34			
3812	21	617	8.4 F5	4	14	52.895	356.30	.70	22	13	57.45	887.4	-23.5	2	57.99			
3814	17	702	8.6 F8	4	15	1.054	344.60	.60	17	16	40.82	886.3	-22.7	2	58.86			
3827	5	622	8.3 F2	4	15	54.759	319.09	.42	5	35	48.97	879.3	-21.1	2	57.39			
3832	30	651	7.8 K5	4	16	20.859	378.87	.90	30	45	48.50	875.9	-25.0	2	58.32			
3844	12	577	7.7 K0	4	16	59.663	335.04	.52	12	57	59.37	870.8	-22.2	2	57.53			
3848	63	494	8.8 K0	4	17	5.136	551.04	3.69	63	42	52.77	870.1	-36.4	2	58.00			
3857	68	319	8.9 G5	4	17	44.846	611.40	5.12	68	22	35.33	864.9	-40.4	2	58.34			
3860	27	656	8.0 K2	4	18	10.259	369.41	.80	27	13	56.42	861.4	-24.5	2	57.99			
3864	0	734	7.8 K2	4	18	29.741	309.60	.36	1	4	35.22	858.9	-20.6	2	58.86			
3866	-	4	806	7.6	G5	4	18	31.812	299.23	.30	-	3	50	12.88	858.7	-19.9	2	57.99
3881	32	778	7.1 K5	4	19	21.664	383.93	.93	32	21	5.00	852.1	-25.5	2	56.96			
3885	-	0	690	7.9	K0	4	19	54.921	305.92	.33	-	0	40	5.06	847.7	-20.4	2	57.41
3889	-	2	883	8.4	A2	4	20	11.195	302.33	.32	-	2	21	36.62	845.5	-20.2	2	59.02
3900	7	637	8.4 G5	4	20	54.898	324.26	.43	7	56	36.30	839.8	-21.6	2	58.44			
3912	44	942	7.5 K2	4	21	36.254	425.68	1.38	44	15	4.17	834.3	-28.4	2	56.96			
3920	25	710	7.9 F5	4	22	7.578	365.69	.74	25	38	8.94	830.2	-24.4	2	57.85			
3922	46	882	7.7 K5	4	22	13.849	437.52	1.53	46	56	43.82	829.3	-29.2	2	58.34			
3925	29	712	8.3 K0	4	22	29.993	375.94	.83	29	24	48.88	827.2	-25.1	2	56.98			
3929	5	649	7.4 K0	4	22	57.106	319.13	.40	5	31	56.45	823.6	-21.4	4	58.15			
3933	51	924	7.0 K5	4	23	8.742	462.69	1.87	51	53	25.21	822.0	-30.9	2	58.87			
3938	0	754	8.8 K2	4	23	28.288	308.54	.34	0	34	5.72	819.4	-20.7	2	57.99			

Position 1950 + T = Position 1950 + T (1st term) + T² (2nd term) + T' (P. M.).

T in centuries from 1900.0, T' in centuries from epoch.

No.	B.D. No.		M + Sp.	R.A. 1950	Precession		Decl. 1950			Precession		No. Obs.	Epoch 1900+
					1st Term	2nd Term				1st Term	2nd Term		
3940	55	882	8.5 K5	4 23 37.175	488.63	2.27	56 4 5.64	818.2	-32.7	2	58.88		
3943	47	993	8.7 B5	4 23 53.372	443.75	1.59	48 11 10.77	816.1	-29.7	2	58.43		
3944	- 0	702	7.4 K2	4 23 54.001	306.00	.33	- 0 37 22.23	816.0	-20.5	2	57.99		
3963	23	698	8.8 M0	4 25 19.003	361.83	.68	24 0 29.00	804.7	-24.3	2	57.95		
3965	11	616	7.7 K0	4 25 37.408	332.36	.47	11 33 21.90	802.2	-22.4	2	57.27		
3978	75	182	8.0 K0	4 26 20.606	796.30	10.12	75 55 22.20	796.4	-53.4	2	57.83		
3991	35	875	8.2 K2	4 27 9.245	396.55	.98	36 0 5.05	789.9	-26.7	2	58.34		
3993	15	635	8.1 M0	4 27 13.603	342.69	.53	16 3 48.35	789.3	-23.1	2	58.32		
3994	- 4	851	8.1 K0	4 27 14.825	297.22	.29	- 4 42 19.11	789.2	-20.1	2	58.43		
3997	41	884	8.0 G5	4 27 29.079	417.46	1.21	41 52 7.59	787.3	-28.1	2	59.01		
3999	8	702	8.8 K5	4 27 39.545	326.41	.42	8 49 26.67	785.9	-22.1	2	59.02		
4007	82	118	8.3 M0	4 28 29.421	1228.00	30.48	82 23 2.34	779.2	-82.6	2	57.85		
4008	2	726	8.8 K0	4 28 32.126	313.37	.35	2 48 28.76	778.8	-21.2	2	58.43		
4022	52	843	7.6 K5	4 29 21.756	469.19	1.84	52 42 1.09	772.1	-31.7	2	57.39		
4023	59	811	8.0 F0	4 29 21.871	515.60	2.57	59 22 24.82	772.1	-34.8	2	57.95		
4034	12	606	8.6 F8	4 30 8.491	334.66	.47	12 28 46.86	765.9	-22.7	4	57.97		
4040	34	891	8.5 A0	4 30 48.085	392.92	.91	34 41 47.72	760.5	-26.7	2	58.34		
4047	- 4	865	8.0 K0	4 31 5.590	298.50	.29	- 4 5 0.56	758.2	-20.3	2	58.39		
4049	1	768	8.7 K0	4 31 11.683	311.01	.34	1 42 23.29	757.3	-21.1	2	58.43		
4054	20	776	8.7 G0	4 31 37.805	354.86	.59	21 0 11.25	753.8	-24.1	4	59.94		
4055	7	667	8.2 A2	4 31 39.698	324.91	.40	8 5 2.37	753.6	-22.1	2	59.33		
4065	76	165	8.1 K0	4 32 1.730	838.64	10.89	76 52 26.47	750.5	-56.8	2	57.83		
4066	37	941	7.8 K2	4 32 3.170	402.04	.99	37 23 48.24	750.4	-27.3	2	56.97		
4068	44	991	7.3 K5	4 32 8.446	431.73	1.31	45 6 45.70	749.7	-29.3	2	59.01		
4072	- 0	724	8.4 K5	4 32 18.919	306.44	.31	- 0 24 38.18	748.3	-20.9	2	58.42		
4073	32	815	8.2 F8	4 32 21.982	386.24	.84	32 28 40.68	747.8	-26.3	2	58.42		
4076	21	668	8.1 K0	4 32 37.895	357.23	.60	21 55 8.66	745.7	-24.3	2	57.40		
4090	25	720	7.5 K2	4 34 20.786	367.00	.66	25 37 40.20	731.8	-25.1	2	59.32		
4091	58	761	8.0 B5	4 34 20.913	510.82	2.34	58 33 46.90	731.7	-34.8	2	58.30		
4093	10	598	7.8 A0	4 34 22.574	330.93	.43	10 44 30.95	731.5	-22.6	2	57.86		
4096	45	969	7.0 K0	4 34 26.978	436.77	1.33	46 8 4.31	730.9	-29.8	2	56.97		
4101	66	336	8.8 A0	4 34 47.709	597.36	3.90	66 46 11.65	728.1	-40.7	4	59.89		
4102	56	954	8.0 G5	4 34 49.404	495.70	2.10	56 32 22.51	727.9	-33.8	2	58.42		
4105	42	1015	8.1 K0	4 34 53.196	422.90	1.17	42 52 11.65	727.3	-28.9	2	57.53		
4112	8	728	7.7 K0	4 35 32.200	326.17	.40	8 35 44.89	722.0	-22.3	2	58.47		
4114	18	666	8.4 A0	4 35 36.162	349.36	.53	18 38 7.01	721.5	-23.9	2	59.01		
4118	52	866	7.7 G5	4 36 0.987	471.21	1.73	52 43 20.16	718.1	-32.2	2	57.93		
4121	6	730	8.4 M0	4 36 5.014	322.03	.38	6 43 20.07	717.6	-22.1	2	58.29		
4123	11	636	8.7 A0	4 36 9.065	333.62	.44	11 53 57.92	717.0	-22.9	2	58.44		
4126	50	1028	8.2 K0	4 36 23.464	461.53	1.60	51 0 37.62	715.1	-31.6	2	57.83		
4132	39	1042	7.4 K2	4 36 39.245	410.97	1.02	39 41 29.81	712.9	-28.1	2	57.53		
4139	17	762	7.8 K0	4 36 58.791	346.46	.51	17 23 32.90	710.3	-23.8	2	58.58		
4141	64	470	8.7 A0	4 37 10.092	575.36	3.36	65 0 0.72	708.7	-39.4	2	58.42		
4142	80	147	7.7 K0	4 37 11.194	1050.35	18.46	80 27 4.54	708.6	-71.8	2	57.99		
4147	36	924	8.4 A3	4 37 23.814	400.71	.92	36 45 15.10	706.8	-27.5	2	57.90		
4150	87	33	8.6 F2	4 37 41.965	4169.41	422.78	88 8 41.96	704.3	-284.6	2	57.97		
4155	- 2	982	8.2 G5	4 38 25.553	302.85	.29	- 2 2 44.42	698.4	-20.8	2	58.30		
4156	78	162	8.5 F8	4 38 26.596	909.51	12.48	78 15 3.90	698.3	-62.3	2	58.89		
4162	26	735	8.9 G5	4 38 49.505	370.87	.66	26 53 9.78	695.1	-25.5	4	59.95		
4178	25	725	8.8 K5	4 40 0.380	368.97	.63	26 8 58.93	685.4	-25.4	2	58.65		

Position 1950 + T = Position 1950 + T (1st term) + T² (2nd term) + T' (P. M.).

T in centuries from 1900.0, T' in centuries from epoch.

No.	B. D. No.		M + Sp.	R. A. 1950		Precession		Decl. 1950			Precession		No. Obs.	Epoch 1900+
						1st Term	2nd Term				1st Term	2nd Term		
4180	17	774	8.1 K5	4 40	5.173	346.24	.49	17 13	3.41	684.8	-23.9	2	57.90	
4191	61	727	8.4 K5	4 40	44.401	539.47	2.60	61 33	52.01	679.4	-37.1	2	58.86	
4203	- 4	928	8.6 A3	4 41	21.109	297.66	.27	- 4 23	29.60	674.4	-20.6	2	58.95	
4204	21	692	8.3 A2	4 41	24.033	357.06	.55	21 33	56.91	674.0	-24.7	2	56.95	
4205	- 3	869	8.1 K0	4 41	36.308	300.16	.27	- 3 15	30.74	672.3	-20.8	2	59.33	
4212	55	922	7.2 K0	4 42	14.303	491.10	1.85	55 33	54.13	667.1	-33.9	2	58.90	
4226	70	320	7.7 G5	4 43	8.035	662.42	4.80	70 26	18.84	659.7	-45.7	2	59.91	
4236	19	777	8.4 K2	4 43	39.835	351.81	.50	19 24	18.62	655.3	-24.4	2	58.92	
4237	6	752	8.8 A0	4 43	41.322	321.50	.35	6 24	22.20	655.1	-22.3	2	59.00	
4241	59	831	7.9 K2	4 44	8.260	521.08	2.21	59 24	36.83	651.4	-36.1	2	58.99	
4244	72	238	8.5 K5	4 44	12.814	716.37	5.95	72 49	50.34	650.7	-49.5	2	58.00	
4246	0	845	8.2 K0	4 44	19.224	308.49	.30	0 31	43.54	649.9	-21.4	2	58.30	
4253	12	649	8.2 G0	4 44	51.534	336.60	.42	13 1	36.42	645.4	-23.4	2	58.38	
4262	53	817	7.7 K5	4 45	29.115	480.26	1.64	53 47	21.87	640.2	-33.3	2	57.53	
4266	- 0	774	8.2 K5	4 45	42.513	306.27	.29	- 0 28	41.52	638.4	-21.3	2	58.43	
4269	56	975	8.6 K7	4 45	45.766	498.60	1.86	56 29	11.04	637.9	-34.6	2	58.90	
4274	- 2	1021	8.8 F0	4 45	51.843	303.01	.27	- 1 57	12.25	637.1	-21.1	2	58.95	
4277	7	725	7.2 K5	4 45	58.621	324.58	.36	7 45	11.25	636.1	-22.6	2	58.31	
4281	28	698	7.6 K0	4 46	7.748	375.47	.64	28 15	53.02	634.9	-26.1	2	59.92	
4284	11	655	8.2 A3	4 46	22.084	333.73	.40	11 45	55.85	632.9	-23.2	2	59.90	
4288	3	684	8.3 K0	4 46	38.519	314.38	.31	3 11	0.20	630.6	-21.9	2	58.34	
4291	50	1070	7.4 M0	4 46	48.685	460.26	1.38	50 19	26.37	629.2	-32.0	2	58.98	
4293	13	720	7.4 K2	4 47	5.813	338.04	.42	13 36	14.17	626.9	-23.5	2	57.40	
4325	4	768	8.2 K0	4 49	32.331	317.59	.32	4 36	34.24	606.5	-22.2	2	56.98	
4329	60	843	8.6 A0	4 49	46.750	532.56	2.20	60 30	24.22	604.5	-37.1	2	57.99	
4333	8	789	8.7 K0	4 49	58.884	325.88	.35	8 16	57.27	602.8	-22.8	2	58.87	
4340	36	958	7.3 G5	4 50	34.767	402.31	.79	36 40	34.57	597.9	-28.1	2	57.90	
4341	18	747	7.6 K5	4 50	39.698	351.23	.47	18 59	30.25	597.1	-24.6	2	58.39	
4343	45	999	7.7 G0	4 50	54.192	437.62	1.08	45 36	2.40	595.2	-30.6	2	58.90	
4353	43	1124	7.0 K5	4 51	40.610	427.85	.99	43 20	15.72	588.7	-29.9	2	57.53	
4361	41	1003	8.5 G5	4 52	1.667	422.56	.94	42 2	36.17	585.8	-29.6	2	56.96	
4367	71	280	8.5 K2	4 52	26.792	685.19	4.63	71 18	21.70	582.2	-47.9	2	57.99	
4374	- 0	802	8.4 B9	4 52	48.976	306.36	.27	- 0 25	54.30	579.2	-21.5	2	57.51	
4375	47	1076	8.5 B9	4 52	59.442	445.80	1.13	47 15	42.81	577.7	-31.2	2	58.43	
4377	13	737	7.8 B9	4 53	2.930	338.17	.39	13 33	8.24	577.2	-23.7	2	58.87	
4378	7	756	8.8 F5	4 53	11.969	323.78	.33	7 19	32.67	576.0	-22.7	2	58.42	
4384	33	926	8.0 G5	4 53	34.793	393.37	.70	33 53	58.71	572.8	-27.6	2	58.48	
4385	- 4	978	8.0 K2	4 53	34.792	298.41	.24	- 3 58	54.31	572.8	-21.0	2	58.57	
4387	37	996	9.1 F8	4 53	35.336	406.61	.79	37 47	18.52	572.7	-28.5	2	58.34	
4394	5	773	8.6 A3	4 54	11.824	320.69	.31	5 57	10.97	567.6	-22.5	2	57.93	
4403	34	930	8.8 A2	4 55	0.308	397.35	.71	35 3	34.96	560.8	-27.9	2	57.41	
4407	- 4	987	7.7 G5	4 55	19.867	296.71	.24	- 4 43	50.42	558.1	-20.9	2	58.31	
4409	18	765	8.9 F2	4 55	25.612	351.31	.44	18 55	3.94	557.3	-24.7	2	57.95	
4415	57	849	8.7 A0	4 56	0.129	511.60	1.75	57 50	21.96	552.4	-36.0	2	57.99	
4426	61	746	8.7 A0	4 56	46.311	549.96	2.19	62 4	54.22	545.9	-38.7	2	58.34	
4438	65	449	7.7 K2	4 57	34.297	589.67	2.70	65 29	48.23	539.2	-41.5	3	56.99	
4455	82	132	8.1 G8	4 58	21.367	1278.76	21.96	82 26	47.68	532.6	-90.0	2	57.99	
4457	15	719	7.8 K2	4 58	28.913	343.47	.39	15 40	19.87	531.6	-24.2	2	58.87	
4462	53	842	8.3 K5	4 58	45.357	482.69	1.37	53 41	15.97	529.2	-34.0	3	58.81	
4473	77	179	8.8 F5	4 59	18.404	910.78	9.14	77 56	13.28	524.6	-64.2	2	59.08	

Position 1950 + T = Position 1950 + T (1st term) + T² (2nd term) + T' (P. M.).

T in centuries from 1900.0, T' in centuries from epoch.

No.	B.D. No.	M + Sp.	R.A. 1950	Precession		Decl. 1950	Precession		No. Obs.	Epoch 1900+
				1st Term	2nd Term		1st Term	2nd Term		
4475	86 65	8.5 G0	4 59 19.657	2618.52	112.07	86 48 22.13	524.4-184.3	2	57.95	
4482	73 269	7.9 K0	5 0 11.251	758.24	5.45	74 1 27.07	517.2 -53.5	4	59.63	
4485	47 1089	7.2 K0	5 0 18.416	448.70	1.03	47 35 43.82	516.1 -31.7	2	59.00	
4488	59 847	8.1 K0	5 0 31.306	532.01	1.85	60 6 39.74	514.3 -37.6	2	58.45	
4498	6 819	7.5 K0	5 1 4.368	322.21	.30	6 34 17.36	509.7 -22.8	2	57.40	
4507	83 129	8.6 G8	5 1 40.767	1438.26	27.49	83 28 37.73	504.5-101.6	2	57.97	
4515	55 956	7.7 F8	5 2 24.154	494.14	1.40	55 17 12.16	498.4 -35.0	2	58.55	
4529	51 1027	7.9 K5	5 3 6.406	470.98	1.17	51 38 25.14	492.4 -33.4	2	57.64	
4530	58 807	7.6 G5	5 3 8.592	518.92	1.63	58 31 37.03	492.1 -36.8	2	57.99	
4531	35 976	7.7 G0	5 3 9.741	399.71	.65	35 29 46.46	492.0 -28.3	2	58.99	
4533	5 805	8.6 K5	5 3 19.741	320.00	.28	5 35 11.66	490.6 -22.7	2	58.87	
4534	3 767	7.6 K0	5 3 27.202	315.76	.27	3 43 19.72	489.5 -22.4	2	59.02	
4537	- 1 800	7.8 G5	5 3 37.927	304.36	.24	- 1 18 36.33	488.0 -21.6	2	59.30	
4541	26 787	8.2	5 3 58.377	373.19	.49	26 55 49.73	485.1 -26.5	2	58.45	
4546	0 945	8.1 G5	5 4 14.209	308.71	.25	0 36 43.52	482.9 -21.9	2	59.08	
4548	32 892	7.8 K0	5 4 21.553	390.59	.58	32 41 57.91	481.8 -27.7	2	59.07	
4561	15 749	7.2 K2	5 5 13.574	344.04	.36	15 47 28.62	474.5 -24.5	2	57.95	
4577	18 783	7.8 G5	5 6 15.710	351.81	.38	18 53 45.01	465.7 -25.0	2	57.39	
4585	14 840	8.0 M0	5 6 39.392	340.45	.34	14 17 36.70	462.3 -24.2	2	57.99	
4586	65 459	8.4 A0	5 6 42.565	598.75	2.41	65 57 19.34	461.9 -42.6	2	57.97	
4593	52 930	8.4 A0	5 7 0.730	478.10	1.15	52 42 22.58	459.3 -34.0	2	58.87	
4605	39 1198	8.2 G5	5 7 35.199	413.54	.69	39 13 15.42	454.4 -29.5	2	57.93	
4626	24 782	8.2 F0	5 9 8.490	365.96	.42	24 13 11.63	441.1 -26.1	2	57.97	
4633	33 973	8.7 G5	5 9 26.409	395.37	.56	34 1 50.85	438.6 -28.2	2	57.82	
4648	61 771	8.9 G5	5 10 4.116	545.48	1.68	61 17 10.15	433.2 -38.9	2	57.85	
4653	3 812	8.1 G0	5 10 47.229	315.61	.25	3 37 44.99	427.1 -22.6	2	57.99	
4662	41 1124	7.9 K0	5 11 18.050	421.99	.69	41 16 43.05	422.7 -30.2	2	57.94	
4686	8 904	8.2 K2	5 12 55.500	327.50	.27	8 46 6.29	408.8 -23.5	4	58.44	
4702	12 758	7.9 K0	5 14 3.949	336.01	.29	12 21 20.82	399.0 -24.1	2	57.40	
4705	45 1084	7.1 K5	5 14 6.803	443.28	.77	46 4 29.96	398.6 -31.7	2	57.50	
4711	- 2 1201	8.6 A2	5 14 40.152	302.72	.21	- 2 0 57.15	393.8 -21.7	2	57.99	
4713	57 873	8.5 F5	5 14 42.022	517.47	1.29	58 3 29.17	393.6 -37.1	2	58.44	
4716	47 1124	8.3 A2	5 14 47.558	449.20	.80	47 16 37.11	392.8 -32.2	2	58.87	
4729	39 1251	7.6 K5	5 15 45.493	415.53	.59	39 31 36.08	384.5 -29.8	2	58.39	
4730	0 1003	8.0 A5	5 15 48.040	308.56	.22	0 32 27.27	384.1 -22.2	2	59.41	
4733	14 873	8.3 A3	5 16 16.923	341.11	.30	14 26 29.51	380.0 -24.5	2	58.47	
4742	15 787	8.1 A0	5 16 46.745	344.31	.30	15 44 7.32	375.7 -24.7	2	58.32	
4746	- 4 1102	8.6 A0	5 17 2.324	297.25	.19	- 4 23 29.32	373.5 -21.4	2	57.97	
4749	- 1 860	8.3 A0	5 17 6.328	304.67	.21	- 1 9 31.49	372.9 -21.9	4	59.23	
4758	34 1004	7.8 K2	5 17 31.457	396.64	.49	34 13 5.49	369.3 -28.5	2	57.98	
4759	67 380	8.4 K0	5 17 37.371	624.61	2.18	67 30 45.27	368.5 -44.8	2	58.43	
4772	4 905	8.6 B8	5 18 24.371	317.51	.23	4 25 45.65	361.7 -22.8	4	59.88	
4775	73 285	6.6 M0	5 18 40.730	755.73	3.69	73 39 39.61	359.4 -54.3	2	58.99	
4780	22 884	9.3 K0	5 18 56.999	362.88	.35	22 54 21.67	357.1 -26.1	2	59.02	
4783	3 864	7.8 K5	5 19 27.691	315.43	.22	3 31 27.10	352.7 -22.7	2	57.90	
4798	52 955	7.6 K2	5 20 28.837	476.94	.86	52 11 6.21	343.9 -34.3	2	58.08	
4800	6 915	8.2 G5	5 20 30.204	323.51	.23	7 0 36.82	343.7 -23.3	2	57.31	
4801	1 992	7.5 K2	5 20 30.908	310.18	.21	1 14 35.98	343.6 -22.4	2	58.54	
4804	18 839	7.4 K2	5 20 34.767	351.52	.30	18 33 17.05	343.0 -25.3	2	59.11	
4807	- 1 879	8.2 A0	5 20 55.553	304.92	.20	- 1 2 53.08	340.1 -22.0	2	58.96	

Position 1950 + T = Position 1950 + T (1st term) + T² (2nd term) + T' (P. M.).

T in centuries from 1900.0, T' in centuries from epoch.

No.	B.D. No.	M + Sp.	R.A. 1950	Precession		Decl. 1950	Precession		No. Obs.	Epoch 1900+
				1st Term	2nd Term		1st Term	2nd Term		
4808	55 991	9.0 K7	5 21 7.999	498.00	.98	55 22 1.38	338.3	-35.8	2	57.95
4817	45 1115	8.5 A0	5 21 38.162	439.93	.64	45 11 4.25	333.9	-31.7	2	57.99
4822	9 823	8.1 K2	5 22 15.544	330.42	.24	9 56 13.77	328.6	-23.8	2	57.52
4826	80 168	7.6 K0	5 22 23.457	1141.22	9.94	81 1 1.73	327.4	-82.1	2	58.43
4827	46 1015	8.2 K0	5 22 30.454	447.60	.66	46 46 34.31	326.4	-32.3	2	58.34
4831	21 839	8.7 K0	5 22 53.800	359.92	.32	21 44 34.46	323.1	-25.9	2	59.02
4834	9 830	8.2 K5	5 22 57.611	328.65	.24	9 11 8.51	322.5	-23.7	2	57.98
4838	5 916	7.5 K0	5 23 9.973	320.99	.22	5 54 48.05	320.7	-23.2	2	58.87
4840	65 474	8.5 K2	5 23 34.738	598.92	1.65	65 39 18.81	317.2	-43.2	2	59.01
4842	24 831	8.4 A5	5 23 39.228	368.77	.34	24 58 10.30	316.5	-26.6	2	58.65
4851	48 1274	6.9 K0	5 24 10.382	455.68	.67	48 20 25.38	312.0	-32.9	2	57.99
4852	1 1015	8.6 B9	5 24 12.007	312.00	.20	2 1 35.32	311.8	-22.5	2	57.90
4873	20 961	7.4 K0	5 25 59.606	356.48	.29	20 24 9.60	296.3	-25.8	2	57.49
4875	35 1133	8.3 G5	5 26 1.511	402.81	.43	35 50 52.25	296.0	-29.1	2	57.64
4877	21 857	8.2 F8	5 26 16.081	358.80	.29	21 16 37.85	293.9	-25.9	2	57.53
4881	1 1028	8.2 K0	5 26 31.328	309.90	.19	1 6 55.86	291.7	-22.4	2	58.30
4883	13 908	7.9 F5	5 26 37.808	338.80	.24	13 23 19.42	290.8	-24.5	2	58.99
4886	40 1310	7.4 K0	5 26 51.127	420.14	.48	40 28 13.75	288.9	-30.4	2	58.17
4889	23 922	8.3 G5	5 27 0.355	365.43	.30	23 43 14.70	287.5	-26.4	2	57.98
4895	53 917	8.3 A0	5 27 9.219	484.84	.76	53 18 49.07	286.3	-35.0	2	58.39
4905	50 1184	7.5 K0	5 27 57.331	470.67	.68	50 59 30.74	279.3	-34.0	2	59.00
4922	52 967	8.3 K0	5 28 55.910	477.35	.69	52 5 35.82	270.9	-34.5	2	58.00
4933	56 1034	8.8 K5	5 29 53.841	510.08	.83	56 50 30.30	262.5	-36.9	2	58.47
4942	17 950	8.9 K2	5 30 24.381	348.96	.24	17 26 30.61	258.1	-25.3	2	57.51
4956	14 948	8.3 K0	5 31 10.102	341.50	.23	14 27 25.38	251.5	-24.7	2	59.00
4958	2 1003	8.2 A2	5 31 26.642	314.33	.18	3 1 28.50	249.1	-22.8	2	57.95
4962	47 1174	7.3 K2	5 31 50.503	454.85	.54	48 2 47.66	245.6	-33.0	2	58.60
4969	6 962	8.1 K0	5 32 4.380	322.49	.19	6 31 17.43	243.7	-23.4	4	58.95
4983	18 887	7.6 K5	5 32 48.256	352.31	.24	18 43 37.15	237.3	-25.5	2	58.14
4993	56 1041	7.1 K0	5 33 12.994	507.50	.73	56 27 29.30	233.7	-36.8	2	57.51
5005	15 866	7.6 K0	5 33 56.951	344.36	.22	15 35 18.54	227.3	-25.0	2	57.64
5013	7 951	8.2 A2	5 34 38.943	325.14	.19	7 38 23.87	221.2	-23.6	4	59.26
5019	39 1367	8.7 K5	5 35 8.976	418.44	.37	39 54 44.79	216.9	-30.4	2	57.99
5027	51 1096	8.2 A2	5 35 33.688	473.21	.54	51 18 30.90	213.3	-34.3	2	57.99
5035	23 982	7.8 K5	5 36 12.410	364.56	.24	23 17 46.45	207.7	-26.5	2	58.07
5040	43 1325	6.8 K5	5 36 26.539	432.57	.39	43 17 54.48	205.7	-31.4	2	58.15
5042	11 898	7.8 M0	5 36 40.201	334.31	.19	11 28 35.24	203.7	-24.3	2	56.98
5044	72 283	8.1 F5	5 36 54.179	723.32	1.81	72 16 38.96	201.6	-52.5	2	57.08
5045	14 978	8.3 K5	5 36 56.575	342.38	.20	14 46 23.11	201.3	-24.9	2	57.99
5052	34 1135	7.9 K0	5 37 6.585	398.78	.30	34 31 25.79	199.8	-29.0	3	57.71
5093	46 1041	9.0 K5	5 39 29.027	447.07	.39	46 23 57.04	179.2	-32.5	2	56.97
5094	8 1044	7.8 K0	5 39 30.992	326.86	.17	8 21 1.67	178.9	-23.8	3	58.64
5096	18 920	7.3 K0	5 39 32.125	353.06	.20	18 57 53.11	178.7	-25.7	2	58.15
5103	- 0 1059	7.0 K0	5 39 59.186	307.24	.15	- 0 2 19.35	174.8	-22.3	2	57.99
5110	57 910	7.3 K2	5 40 33.412	514.09	.56	57 13 21.05	169.8	-37.4	3	59.44
5117	3 1018	7.8 F0	5 41 3.830	316.60	.15	3 58 58.33	165.4	-23.0	2	57.96
5125	38 1277	7.6 K0	5 41 30.147	413.18	.28	38 28 43.53	161.6	-30.0	2	57.64
5131	- 2 1358	8.5 F2	5 41 57.763	300.50	.14	- 2 55 55.20	157.6	-21.9	2	58.60
5145	83 149	8.0 K0	5 42 44.648	1494.58	8.63	83 35 48.00	150.8	-108.6	2	57.97
5157	50 1225	7.3 K0	5 43 26.197	466.55	.37	50 4 15.30	144.7	-33.9	2	56.97

Position 1950 + T = Position 1950 + T (1st term) + T² (2nd term) + T' (P. M.).

T in centuries from 1900.0, T' in centuries from epoch.

No.	B. D. No.	M + Sp.	R. A. 1950	Precession		Decl. 1950	Precession		No. Obs.	Epoch 1900+
				1st Term	2nd Term		1st Term	2nd Term		
5172	61 826	7.9 K0	5 44 46.153	551.28	.55	61 20 34.38	133.1	-40.1	2	57.96
5175	2 1063	8.0 K5	5 44 56.435	314.06	.14	2 53 23.64	131.6	-22.9	2	58.59
5187	- 0 1086	8.2 K0	5 45 37.380	305.55	.13	- 0 45 53.15	125.6	-22.3	2	58.60
5200	75 237	8.3 K2	5 46 9.938	836.61	1.61	75 51 22.92	120.9	-60.9	2	59.10
5201	32 1098	8.6 K0	5 46 29.150	393.81	.21	32 57 30.33	118.2	-28.7	2	58.88
5208	- 4 1251	8.6 G5	5 47 10.768	296.90	.13	- 4 28 13.45	112.1	-21.6	2	58.99
5209	46 1054	8.6 A0	5 47 14.732	446.95	.27	46 18 12.27	111.5	-32.5	2	59.13
5214	66 410	8.0 K0	5 47 24.927	619.61	.64	66 52 0.20	110.0	-45.1	2	58.49
5218	31 1119	8.3 K5	5 47 46.546	389.43	.19	31 36 23.34	106.9	-28.4	3	58.79
5221	77 217	8.2 G5	5 47 53.588	930.49	1.86	77 54 51.56	105.8	-67.7	2	59.35
5225	81 194	7.9 G5	5 48 17.935	1185.12	3.30	81 21 21.36	102.3	-86.3	2	59.00
5226	56 1073	8.2 G5	5 48 18.683	505.64	.34	56 3 50.75	102.2	-36.8	2	58.67
5239	- 2 1391	8.6 K0	5 48 57.632	300.50	.12	- 2 55 44.47	96.5	-21.9	2	58.99
5247	52 1006	8.3 G5	5 49 43.394	482.11	.27	52 37 48.28	89.8	-35.1	2	59.11
5255	40 1446	8.0 A2	5 50 3.633	420.98	.19	40 24 37.96	86.9	-30.7	2	58.18
5258	36 1282	7.3 K0	5 50 14.173	404.75	.18	36 7 14.73	85.4	-29.5	2	57.64
5261	25 1020	7.8 G5	5 50 25.342	369.76	.15	25 3 50.03	83.7	-26.9	2	57.60
5263	42 1433	8.4 K2	5 50 30.480	429.95	.20	42 34 0.83	83.0	-31.3	2	58.09
5264	9 995	7.5 K2	5 50 33.081	329.79	.13	9 32 57.08	82.6	-24.0	2	58.14
5271	45 1194	8.4 A0	5 51 7.198	442.42	.20	45 20 9.17	77.6	-32.2	2	58.44
5279	- 1 1059	7.7 M0	5 51 50.028	304.80	.12	- 1 5 5.96	71.4	-22.2	3	59.14
5282	5 1043	8.0 G5	5 51 55.830	319.82	.12	5 20 43.89	70.6	-23.3	2	58.99
5283	64 555	7.9 K5	5 51 57.824	583.01	.36	64 9 20.87	70.3	-42.5	2	57.53
5284	17 1051	7.2 K5	5 52 3.807	349.16	.13	17 23 39.02	69.4	-25.4	2	58.17
5289	0 1211	8.2 K0	5 52 22.757	308.66	.12	0 34 11.37	66.6	-22.5	3	58.06
5296	35 1283	8.6 K0	5 52 40.370	401.41	.15	35 9 46.31	64.1	-29.3	2	57.97
5315	68 417	8.4 G5	5 54 11.851	640.33	.34	68 8 36.30	50.7	-46.7	2	57.14
5329	24 1045	7.8 G5	5 55 32.088	369.04	.11	24 47 40.53	39.1	-26.9	2	57.90
5335	7 1072	7.6 K0	5 55 44.601	325.76	.11	7 51 25.07	37.2	-23.7	2	58.12
5351	62 801	7.6 K0	5 56 27.137	561.97	.17	62 18 55.01	31.0	-41.0	2	58.61
5353	11 986	8.5 K0	5 56 32.839	335.14	.10	11 45 36.34	30.2	-24.4	2	58.42
5358	66 420	6.9 K5	5 57 5.982	620.56	.17	66 53 58.12	25.4	-45.2	2	57.97
5359	9 1040	8.2 A3	5 57 8.034	329.76	.10	9 31 55.38	25.1	-24.0	2	58.45
5361	0 1242	8.0 F5	5 57 17.709	307.45	.10	0 3 16.21	23.7	-22.4	3	59.07
5366	32 1155	8.7 M0	5 57 27.777	391.22	.10	32 7 25.79	22.2	-28.5	2	58.92
5375	82 155	8.3 K2	5 57 48.457	1317.11	.70	82 27 45.33	19.1	-96.0	2	57.14
5388	37 1389	8.9 G5	5 58 45.628	410.74	.09	37 44 17.66	10.8	-29.9	2	56.64
5403	17 1101	7.6 K0	6 0 2.056	349.89	.09	17 40 2.40	-.4	-25.5	2	56.63
5431	8 1173	8.0 K0	6 1 55.004	326.64	.08	8 13 31.47	-16.8	-23.8	2	58.12
5446	0 1270	7.2 K5	6 2 48.254	308.77	.09	0 37 5.23	-24.6	-22.5	2	56.65
5455	3 1123	8.4 K0	6 3 36.972	315.13	.08	3 20 29.89	-31.6	-23.0	2	57.64
5459	33 1244	8.3 K2	6 3 48.006	394.30	.04	33 3 45.54	-33.2	-28.7	2	58.09
5461	41 1356	8.4 M0	6 3 50.320	424.31	.02	41 12 26.46	-33.6	-30.9	2	58.17
5463	19 1212	8.3 G5	6 3 58.788	354.56	.06	19 28 8.78	-34.8	-25.8	2	58.42
5464	6 1116	7.8 A5	6 3 58.947	323.11	.08	6 44 13.25	-34.8	-23.5	2	58.49
5469	35 1341	8.8 K0	6 4 9.228	403.36	.03	35 42 32.39	-36.3	-29.4	2	56.98
5482	74 275	8.0 F8	6 4 50.654	790.27	-.50	74 32 16.85	-42.3	-57.6	2	58.44
5490	25 1128	8.2 K0	6 5 22.012	372.41	.04	25 58 30.15	-46.9	-27.1	2	56.66
5494	49 1459	7.1 K5	6 5 48.205	461.38	-.04	49 4 21.78	-50.8	-33.6	2	57.16
5498	27 1006	7.8 K0	6 6 18.525	375.98	.03	27 12 12.56	-55.2	-27.4	2	57.97

Position 1950 + T = Position 1950 + T (1st term) + T² (2nd term) + T' (P. M.).

T in centuries from 1900.0, T' in centuries from epoch.

No.	B.D. No.		M + Sp.	R.A. 1950			Precession		Decl. 1950			Precession		No. Obs.	Epoch 1900+
							1st Term	2nd Term				1st Term	2nd Term		
5510	8	1210	8.2 K5	6	7	4.758	327.89	.06	8	45	17.58	-61.9	-23.9	2	57.99
5516	62	819	8.7 K2	6	7	22.229	569.21	-.24	62	58	50.97	-64.4	-41.4	2	58.08
5525	43	1474	6.9 K2	6	7	54.205	435.44	-.05	43	48	41.85	-69.1	-31.7	2	56.65
5531	15	1097	7.5 G5	6	8	20.822	344.54	.04	15	34	26.71	-73.0	-25.1	2	56.97
5536	45	1259	8.3 K0	6	8	36.443	441.13	-.06	45	3	38.48	-75.3	-32.1	2	57.97
5544	55	1062	7.6 G5	6	9	16.456	502.30	-.17	55	35	55.89	-81.1	-36.6	4	58.95
5548	59	952	8.4 K7	6	9	35.731	531.71	-.24	59	14	55.05	-83.9	-38.7	2	58.57
5549	35	1362	8.0 G5	6	9	37.414	402.07	-.03	35	21	44.40	-84.1	-29.3	2	58.12
5550	- 3	1339	8.0 G5	6	9	57.719	298.87	.07	- 3	37	23.44	-87.1	-21.7	2	58.16
5552	33	1275	8.8 A0	6	10	2.058	394.60	-.02	33	10	30.45	-87.7	-28.7	2	57.56
5554	- 1	1147	8.4 A0	6	10	6.169	304.25	.07	- 1	19	11.92	-88.3	-22.2	2	57.16
5564	50	1285	8.5 F8	6	10	36.490	470.93	-.15	50	47	30.10	-92.8	-34.3	2	56.62
5579	87	41	8.1 K5	6	12	0.064	3166.00	-33.40	87	19	39.00	-104.9	-230.4	2	58.98
5581	52	1049	7.3 K2	6	12	5.226	479.36	-.19	52	12	10.65	-105.7	-34.9	2	57.90
5586	25	1180	7.7 K5	6	12	19.418	370.54	-.01	25	21	1.91	-107.7	-26.9	2	58.95
5587	64	575	7.4 K0	6	12	22.973	591.51	-.49	64	51	1.21	-108.2	-43.0	2	58.54
5602	- 2	1530	8.6 K5	6	13	16.111	301.81	.06	- 2	22	3.91	-116.0	-21.9	2	59.35
5610	26	1156	8.4 K0	6	13	44.223	373.86	-.02	26	30	43.25	-120.1	-27.2	2	58.11
5615	39	1575	7.3 K0	6	14	6.652	418.75	-.10	39	52	40.31	-123.3	-30.4	2	58.09
5619	5	1164	8.4 K5	6	14	16.079	321.23	.04	5	57	0.76	-124.7	-23.3	2	58.90
5625	48	1369	8.6 K0	6	14	51.576	455.27	-.19	48	58	22.60	-129.9	-33.1	2	57.96
5627	13	1187	8.4 B9	6	15	5.819	338.23	.02	13	3	4.93	-131.9	-24.6	2	58.61
5637	21	1190	7.8 K2	6	15	40.488	359.04	-.02	21	12	5.98	-137.0	-26.1	2	58.12
5646	46	1129	7.9 G5	6	16	25.231	448.60	-.20	46	40	8.66	-143.5	-32.6	2	58.17
5650	- 3	1386	8.4 G0	6	16	38.286	299.37	.05	- 3	25	0.58	-145.4	-21.7	2	57.97
5651	42	1533	7.4 G5	6	16	40.481	430.83	-.16	42	49	20.82	-145.7	-31.3	2	58.16
5657	75	253	8.2 G5	6	17	5.082	829.35	-1.98	75	40	53.04	-149.3	-60.2	2	58.90
5661	25	1223	7.8 K5	6	17	29.646	371.25	-.05	25	37	54.61	-152.9	-27.0	2	57.56
5663	45	1288	8.4 M0	6	17	39.315	441.16	-.20	45	7	51.17	-154.2	-32.0	2	57.60
5680	19	1313	7.4 G5	6	18	37.831	355.58	-.03	19	54	59.59	-162.7	-25.8	2	58.49
5682	6	1208	8.4 G5	6	18	45.034	322.49	.02	6	29	40.34	-163.8	-23.4	2	58.45
5686	50	1296	8.8 K5	6	19	14.597	468.48	-.31	50	26	12.15	-168.1	-34.0	2	58.17
5692	- 1	1212	8.7 A3	6	19	29.926	302.67	.05	- 2	0	15.05	-170.3	-21.9	4	58.97
5696	53	1013	7.9 M0	6	19	52.549	485.62	-.37	53	15	16.99	-173.6	-35.2	2	56.65
5699	34	1331	8.2 K0	6	20	14.911	398.09	-.13	34	17	30.23	-176.8	-28.9	2	58.14
5705	40	1583	7.2 K5	6	20	22.718	422.35	-.19	40	50	7.78	-178.0	-30.6	2	58.17
5713	41	1431	8.5 M0	6	20	54.771	426.48	-.21	41	50	37.64	-182.6	-30.9	2	58.44
5714	18	1203	8.0 F0	6	20	55.580	351.81	-.03	18	29	3.41	-182.8	-25.5	2	58.09
5721	62	840	7.0 K5	6	21	22.860	565.29	-.74	62	43	7.12	-186.7	-41.0	2	59.00
5722	- 4	1490	7.3 K0	6	21	25.365	296.39	.05	- 4	42	4.21	-187.1	-21.5	2	58.92
5723	78	225	8.1 K2	6	21	28.753	950.64	-3.61	78	18	58.74	-187.6	-68.9	3	59.14
5725	13	1229	7.2 G5	6	21	38.949	338.14	-.01	13	2	35.28	-189.0	-24.5	2	59.63
5726	77	239	8.3 F8	6	21	43.823	884.76	-3.01	77	1	39.08	-189.8	-64.1	2	58.45
5733	55	1077	7.7 G5	6	21	58.912	502.54	-.49	55	43	58.67	-191.9	-36.4	2	58.17
5736	58	925	7.7 G5	6	22	14.881	523.91	-.58	58	26	52.67	-194.3	-38.0	2	58.61
5758	0	1418	7.5 G5	6	24	9.146	308.45	.02	0	29	6.84	-210.8	-22.3	2	57.99
5765	6	1246	8.2 K5	6	24	33.732	322.56	.00	6	32	31.10	-214.4	-23.3	2	57.16
5797	- 2	1624	8.2 K0	6	26	20.515	301.59	.03	- 2	28	32.86	-229.9	-21.8	2	57.08
5804	7	1306	8.0 G5	6	26	39.957	324.88	-.01	7	31	57.52	-232.7	-23.5	2	57.16
5808	61	890	7.5 G5	6	26	55.987	550.56	-.86	61	23	7.91	-235.0	-39.8	2	58.46

Position 1950 + T = Position 1950 + T (1st term) + T² (2nd term) + T' (P. M.).

T in centuries from 1900.0, T' in centuries from epoch.

No.	B.D. No.		M + Sp.	R.A. 1950		Precession		Decl. 1950			Precession		No. Obs.	Epoch 1900+
						1st Term	2nd Term				1st Term	2nd Term		
5810	43	1548	7.5 K0	6 27	7.607	435.08	-.32	43 54	58.12	-236.7	-31.4	4	59.08	
5819	25	1302	8.7 K0	6 27	34.226	371.80	-.12	25 55	10.76	-240.5	-26.8	2	58.44	
5823	32	1316	7.4 M0	6 27	43.279	392.94	-.19	32 50	28.48	-241.8	-28.4	2	59.02	
5826	37	1525	8.9 K2	6 28	11.786	408.98	-.24	37 28	24.03	-246.0	-29.5	2	57.99	
5844	16	1183	8.2 G5	6 29	38.533	346.76	-.07	16 34	18.98	-258.5	-25.0	2	57.42	
5847	29	1263	8.2 K0	6 29	52.449	382.11	-.17	29 26	40.80	-260.5	-27.6	2	57.61	
5856	- 1	1271	8.3 F2	6 30	33.056	303.49	.01	- 1 39	40.32	-266.4	-21.9	4	59.01	
5867	7	1343	8.2 K0	6 31	4.270	324.24	-.03	7 16	44.88	-270.9	-23.4	2	58.44	
5879	54	1050	8.3 A0	6 31	42.068	493.76	-.68	54 37	48.72	-276.4	-35.6	2	58.60	
5887	25	1326	7.9 K2	6 31	56.887	368.92	-.14	24 57	41.77	-278.5	-26.6	2	58.09	
5889	72	324	8.4 F5	6 32	3.155	737.25	-2.66	72 53	36.80	-279.4	-53.2	2	58.63	
5896	0	1489	8.2 A0	6 32	24.039	308.58	.00	0 32	41.35	-282.4	-22.2	2	56.97	
5902	17	1306	7.4 K0	6 32	58.983	349.62	-.10	17 44	3.80	-287.5	-25.2	2	57.60	
5906	67	440	8.6 A2	6 33	22.067	620.76	-1.63	67 7	50.39	-290.8	-44.7	2	57.49	
5909	60	985	8.1 G5	6 33	37.543	537.56	-1.00	60 8	21.36	-293.0	-38.7	2	57.99	
5929	23	1428	8.8 K2	6 34	37.522	364.94	-.15	23 33	46.17	-301.7	-26.2	2	58.09	
5938	39	1689	7.9 K5	6 35	6.760	414.89	-.34	39 9	51.69	-305.9	-29.8	2	57.99	
5946	75	262	8.5 K0	6 35	41.856	826.92	-4.11	75 44	44.89	-311.0	-59.5	2	57.61	
5954	36	1471	8.6 G5	6 35	57.529	405.70	-.31	36 42	4.50	-313.2	-29.1	2	58.12	
5956	68	447	8.0 K0	6 36	6.450	645.69	-2.00	68 41	39.63	-314.5	-46.4	2	57.51	
5971	35	1464	8.2 F0	6 37	17.379	401.74	-.31	35 36	22.26	-324.7	-28.8	2	57.15	
5978	- 4	1610	7.6 K5	6 37	47.140	297.15	.01	- 4 24	50.84	-329.0	-21.3	4	58.31	
5981	80	217	7.3 K0	6 38	4.010	1077.75	-8.86	80 17	36.54	-331.4	-77.4	2	56.65	
5987	20	1531	8.5 A0	6 38	21.492	355.32	-.14	20 0	53.60	-333.9	-25.5	2	57.90	
6037	22	1453	8.5 K2	6 41	23.608	362.13	-.18	22 37	51.34	-360.0	-25.9	2	57.16	
6046	24	1386	7.6 K2	6 42	19.593	367.81	-.21	24 43	32.09	-368.1	-26.3	2	57.51	
6047	37	1578	7.9 K5	6 42	21.755	409.32	-.40	37 49	53.41	-368.4	-29.2	2	58.09	
6059	29	1342	8.1 K5	6 43	22.139	382.77	-.28	29 53	40.59	-377.0	-27.3	2	58.43	
6062	36	1501	8.5 K2	6 43	32.135	404.15	-.39	36 25	25.57	-378.4	-28.8	2	57.10	
6075	55	1125	8.6 A0	6 44	28.680	496.73	-1.00	55 18	29.79	-386.5	-35.4	2	57.53	
6080	5	1406	8.0 G5	6 44	40.645	320.02	-.06	5 31	46.42	-388.2	-22.8	2	57.51	
6082	67	452	7.3 K5	6 44	46.909	624.87	-2.25	67 34	13.68	-389.1	-44.6	2	59.47	
6083	41	1513	7.2 K2	6 44	50.401	422.71	-.50	41 21	31.15	-389.6	-30.1	2	58.63	
6085	22	1475	8.8 K0	6 44	57.019	360.82	-.20	22 12	12.59	-390.6	-25.7	2	59.07	
6090	66	467	8.1 G0	6 45	25.621	606.28	-2.07	66 20	14.85	-394.7	-43.2	2	58.94	
6097	- 1	1387	7.6 K5	6 45	50.311	303.30	-.02	- 1 45	40.75	-398.2	-21.6	4	59.01	
6102	- 3	1600	8.6 F5	6 45	59.548	299.45	-.01	- 3 26	28.27	-399.5	-21.3	2	58.12	
6113	32	1416	8.4 G0	6 46	33.727	389.65	-.34	32 10	16.67	-404.4	-27.7	2	57.61	
6115	74	303	7.5 G5	6 46	39.010	769.67	-4.41	74 11	49.19	-405.2	-54.9	2	58.65	
6118	3	1414	7.2 K0	6 46	51.525	315.90	-.06	3 44	59.46	-406.9	-22.5	2	58.63	
6120	39	1756	7.9 G5	6 46	53.373	416.27	-.49	39 47	2.24	-407.2	-29.6	2	59.01	
6124	17	1409	7.7 K0	6 47	11.859	348.94	-.17	17 38	55.07	-409.8	-24.8	2	58.44	
6126	12	1310	6.9 M0	6 47	14.454	335.41	-.12	12 7	0.41	-410.2	-23.8	3	58.85	
6133	20	1589	8.2 K2	6 47	52.757	355.03	-.20	20 2	59.92	-415.7	-25.2	2	58.63	
6147	49	1556	7.5 K2	6 49	15.606	460.69	-.82	49 35	45.82	-427.5	-32.7	2	58.57	
6153	1	1565	8.0 K5	6 49	47.404	309.77	-.05	1 4	18.47	-432.0	-22.0	2	57.59	
6159	38	1637	8.0 K5	6 50	17.336	410.60	-.50	38 22	30.56	-436.3	-29.1	2	57.99	
6174	10	1315	7.8 K5	6 51	20.345	331.68	-.12	10 35	17.81	-445.2	-23.5	2	58.13	
6176	- 4	1714	8.3 K5	6 51	27.306	297.47	-.02	- 4 19	44.10	-446.2	-21.1	2	57.62	
6179	17	1441	8.0 K2	6 51	45.042	349.01	-.20	17 44	54.54	-448.8	-24.7	2	58.43	

Position 1950 + T = Position 1950 + T (1st term) + T² (2nd term) + T' (P. M.).

T in centuries from 1900.0, T' in centuries from epoch.

No.	B. D. No.		M + Sp.	R. A. 1950	Precession		Decl. 1950	Precession		No. Obs.	Epoch 1900+
					1st Term	2nd Term		1st Term	2nd Term		
6186	- 1	1447	8.4 K0	6 52 16.622	304.56	-.04	- 1 13 5.33	-453.2	-21.5	2	57.11
6187	14	1486	8.1 K5	6 52 20.217	340.48	-.16	14 17 34.95	-453.7	-24.1	2	57.59
6195	- 2	1829	7.8 K0	6 52 37.752	301.84	-.04	- 2 24 59.05	-456.2	-21.3	2	58.65
6196	36	1528	8.5 A5	6 52 46.405	404.62	-.49	36 47 30.61	-457.5	-28.6	2	58.90
6198	7	1520	8.4 K0	6 52 51.020	324.46	-.11	7 30 8.81	-458.1	-22.9	4	59.58
6204	85	98	8.1 M2	6 53 6.846	2014.40	-54.93	85 38 37.21	-460.3	-142.8	2	58.65
6214	47	1373	8.0 A2	6 53 34.372	448.41	-.80	47 20 39.31	-464.3	-31.7	2	57.62
6226	41	1557	7.3 K0	6 54 13.346	419.83	-.60	40 53 48.13	-469.8	-29.6	2	57.11
6229	57	1021	8.1 G5	6 54 35.074	512.69	-1.40	57 41 43.40	-472.9	-36.2	4	59.01
6247	17	1461	8.5 M0	6 55 44.302	348.31	-.21	17 32 12.41	-482.7	-24.5	2	57.60
6255	16	1346	7.8 K2	6 56 12.955	344.76	-.20	16 6 35.96	-486.7	-24.3	2	57.18
6268	1	1622	7.6 K0	6 56 56.952	309.56	-.07	0 59 12.14	-492.9	-21.8	2	57.10
6288	29	1430	7.7 G5	6 58 2.725	379.88	-.39	29 17 18.87	-502.2	-26.7	2	58.60
6292	50	1381	7.9 K5	6 58 18.736	460.94	-.99	49 54 33.34	-504.5	-32.4	2	57.17
6293	61	928	8.0 F2	6 58 19.664	544.31	-1.87	61 22 50.25	-504.6	-38.3	2	58.00
6295	73	360	7.6 G5	6 58 22.338	743.91	-5.04	73 30 6.25	-505.0	-52.4	2	57.64
6312	43	1639	8.9 M0	6 59 30.096	429.85	-.75	43 29 38.66	-514.5	-30.2	2	57.60
6331	- 4	1793	8.3 K0	7 0 57.812	297.88	-.04	- 4 11 30.19	-526.9	-20.8	2	57.62
6333	16	1372	8.2 K0	7 1 0.347	344.92	-.22	16 15 26.09	-527.2	-24.1	2	56.61
6346	63	686	8.1 K0	7 1 41.165	559.26	-2.18	62 55 15.66	-533.0	-39.2	2	56.63
6350	64	616	8.1 F5	7 1 46.390	577.31	-2.43	64 29 49.29	-533.7	-40.4	2	57.99
6388	- 4	1820	8.7 K0	7 4 3.413	296.42	-.05	- 4 51 23.01	-553.0	-20.7	2	57.60
6400	68	464	8.1 K5	7 4 54.869	635.83	-3.50	68 40 3.62	-560.1	-44.4	2	57.18
6403	- 3	1750	8.4 M0	7 5 16.959	299.95	-.06	- 3 17 28.95	-563.2	-20.9	2	58.14
6407	82	194	7.3 K5	7 5 24.771	1284.50	-23.87	82 31 29.81	-564.3	-89.7	2	58.00
6420	30	1431	7.5 K0	7 6 8.008	381.97	-.47	30 13 44.88	-570.4	-26.6	2	57.96
6423	47	1404	8.5 M0	7 6 24.727	444.46	-.98	46 57 44.66	-572.7	-30.9	2	57.08
6425	2	1576	7.5 K0	7 6 31.526	312.55	-.10	2 20 4.68	-573.6	-21.7	3	59.13
6427	54	1111	8.4 K0	7 6 40.631	486.48	-1.42	54 27 18.75	-574.9	-33.8	2	58.61
6428	13	1570	8.5 K2	7 6 42.418	338.61	-.22	13 44 6.92	-575.2	-23.5	2	58.10
6429	22	1596	7.8 K2	7 6 44.269	360.20	-.34	22 26 47.02	-575.4	-25.0	2	59.63
6431	59	1053	7.4 K0	7 6 54.955	521.54	-1.85	59 8 51.08	-576.9	-36.3	2	57.63
6436	50	1399	8.3 G5	7 7 13.492	459.68	-1.14	49 59 5.07	-579.5	-31.9	2	57.69
6437	45	1394	7.8 K0	7 7 13.730	436.72	-.92	45 19 47.72	-579.5	-30.3	2	57.65
6451	24	1549	7.7 M0	7 8 12.268	366.21	-.38	24 44 50.04	-587.7	-25.4	2	59.10
6459	- 0	1635	8.4 K0	7 8 57.787	305.22	-.08	- 0 56 50.61	-594.0	-21.1	2	58.09
6460	40	1807	8.1 K5	7 8 59.988	414.77	-.75	40 5 43.67	-594.3	-28.7	2	57.61
6469	10	1453	7.5 K0	7 9 44.541	330.45	-.19	10 16 59.37	-600.5	-22.9	2	57.05
6481	42	1678	8.4 K0	7 10 37.832	424.53	-.85	42 37 47.64	-608.0	-29.4	2	57.53
6489	4	1627	7.7 G5	7 11 24.372	317.71	-.14	4 39 53.35	-614.4	-21.9	2	57.59
6503	23	1648	8.9 K0	7 12 10.157	362.11	-.38	23 19 32.86	-620.8	-25.0	2	57.17
6504	78	243	8.4 K0	7 12 18.651	898.04	-10.66	77 51 51.41	-621.9	-62.1	2	57.61
6507	- 1	1613	8.7 K2	7 12 26.051	302.89	-.08	- 2 0 6.41	-623.0	-20.8	2	57.16
6510	22	1620	7.0 K5	7 12 34.347	358.77	-.36	22 3 18.74	-624.1	-24.7	2	57.19
6517	14	1615	7.9 K0	7 12 52.384	338.86	-.25	13 57 11.41	-626.6	-23.3	2	57.99
6523	37	1694	8.3 K5	7 13 26.808	404.07	-.71	37 20 15.88	-631.4	-27.8	2	57.59
6537	41	1628	7.3 K0	7 14 11.984	417.58	-.84	41 2 8.81	-637.6	-28.7	2	56.70
6549	- 4	1885	8.5 G5	7 14 37.302	297.83	-.07	- 4 17 25.85	-641.1	-20.4	2	57.16
6563	59	1070	8.2 M0	7 15 34.056	524.45	-2.16	59 47 22.01	-648.9	-36.0	2	57.17
6564	49	1615	8.4 A3	7 15 41.059	456.62	-1.26	49 44 48.28	-649.9	-31.3	2	57.99

Position 1950 + T = Position 1950 + T (1st term) + T² (2nd term) + T' (P. M.).

T in centuries from 1900.0, T' in centuries from epoch.

No.	B.D. No.	M + Sp.	R.A. 1950	Precession		Decl. 1950	Precession		No. Obs.	Epoch 1900+
				1st Term	2nd Term		1st Term	2nd Term		
6593	18 1577	7.8 K0	7 17 37.202	348.18	-.32	17 57 31.88	-665.9	-23.8	2	56.17
6594	23 1681	8.6 A2	7 17 44.909	362.70	-.42	23 43 30.61	-667.0	-24.8	2	56.72
6595	15 1544	8.8 K0	7 17 47.349	341.07	-.28	14 59 37.62	-667.3	-23.3	2	57.97
6619	30 1489	8.1 K0	7 18 59.766	381.04	-.57	30 22 33.15	-677.2	-26.0	2	57.17
6631	14 1649	8.1 F5	7 19 55.236	339.53	-.28	14 23 4.70	-684.8	-23.1	2	57.18
6644	28 1377	7.9 K2	7 20 49.816	373.70	-.53	27 53 34.31	-692.3	-25.4	2	56.64
6648	16 1466	7.4 K0	7 20 55.404	345.12	-.32	16 46 23.01	-693.1	-23.5	2	57.60
6655	33 1520	8.6 K2	7 21 13.563	389.14	-.65	33 8 16.22	-695.6	-26.4	2	57.61
6656	56 1208	7.6 K2	7 21 17.903	497.66	-1.92	56 38 35.68	-696.2	-33.9	2	58.18
6677	13 1663	7.6 K2	7 22 46.137	336.58	-.27	13 10 23.07	-708.2	-22.8	2	57.63
6679	5 1652	7.9 K5	7 22 47.805	318.15	-.17	4 57 2.62	-708.4	-21.5	2	57.99
6685	44 1627	7.6 K0	7 23 11.117	430.42	-1.09	44 34 47.32	-711.6	-29.2	2	56.61
6694	24 1659	8.7 A2	7 23 56.926	362.95	-.46	24 1 45.01	-717.9	-24.5	2	57.17
6700	- 4 1950	8.3 K0	7 24 19.441	296.17	-.08	- 5 6 55.77	-720.9	-20.0	2	57.60
6705	48 1535	7.7 G5	7 24 38.391	446.51	-1.30	48 9 46.47	-723.5	-30.2	2	57.19
6708	1 1811	7.0 K0	7 24 43.580	310.71	-.14	1 33 16.57	-724.2	-21.0	2	58.18
6735	6 1690	8.4 K2	7 26 51.436	322.05	-.20	6 45 56.63	-741.5	-21.6	2	58.13
6737	84 152	7.6 K5	7 26 51.972	1552.63	-50.86	84 18 27.71	-741.7	-105.0	2	56.71
6744	25 1689	8.7 K2	7 27 21.090	366.63	-.51	25 33 13.69	-745.6	-24.6	2	57.60
6749	51 1324	8.7 A3	7 27 33.800	463.94	-1.59	51 37 57.90	-747.3	-31.2	2	58.17
6760	62 935	8.2 G0	7 28 23.995	547.35	-2.97	62 42 57.21	-754.1	-36.8	2	57.53
6763	24 1683	7.5 K0	7 28 37.937	362.70	-.49	24 6 23.71	-756.0	-24.3	2	56.18
6764	58 1045	8.8 F2	7 28 38.567	510.32	-2.32	58 37 57.90	-756.0	-34.3	2	57.18
6772	46 1277	7.4 G5	7 29 1.232	438.29	-1.27	46 38 33.86	-759.1	-29.4	2	56.19
6784	22 1717	8.7 K7	7 30 3.185	358.87	-.47	22 39 52.34	-767.4	-24.0	2	56.68
6793	41 1680	7.6 K5	7 30 17.922	415.65	-1.02	41 16 57.29	-769.4	-27.8	2	56.61
6805	60 1063	8.7 G5	7 31 7.785	527.32	-2.70	60 45 6.68	-776.1	-35.3	2	56.66
6812	14 1699	7.9 M0	7 31 36.295	338.50	-.32	14 12 40.13	-779.9	-22.6	2	56.70
6815	- 1 1765	8.0 G5	7 31 47.253	304.73	-.13	- 1 12 29.50	-781.4	-20.3	4	57.90
6817	65 579	7.2 K0	7 31 48.154	573.70	-3.64	65 12 26.60	-781.6	-38.3	4	57.94
6822	79 243	8.1 K5	7 32 6.852	982.66	-17.59	79 40 49.06	-784.1	-65.7	2	57.17
6826	49 1645	8.2 G0	7 32 15.917	449.29	-1.47	49 6 30.85	-785.3	-30.0	2	58.17
6830	6 1720	7.8 M0	7 32 22.579	320.91	-.21	6 18 19.14	-786.1	-21.3	2	57.62
6845	16 1524	8.4 G5	7 33 39.498	342.92	-.36	16 11 17.25	-796.5	-22.8	4	58.37
6858	10 1579	7.9 G5	7 34 33.966	329.83	-.28	10 24 58.85	-803.7	-21.8	2	57.07
6863	5 1726	7.6 K2	7 34 41.283	319.15	-.21	5 31 5.96	-804.7	-21.2	2	57.18
6867	- 1 1779	7.4 K5	7 34 57.385	303.22	-.13	- 1 55 24.32	-806.9	-20.1	2	57.60
6870	33 1560	7.3 G5	7 35 7.038	387.64	-.77	33 18 3.90	-808.1	-25.7	2	58.17
6872	31 1634	8.6 G5	7 35 9.287	380.24	-.69	30 48 36.43	-808.5	-25.2	2	58.17
6880	44 1653	8.4 K2	7 35 33.665	425.43	-1.20	44 1 49.27	-811.7	-28.2	3	59.14
6887	36 1659	8.9 K0	7 35 52.320	395.96	-.86	35 58 36.16	-814.2	-26.2	2	57.64
6890	0 2029	7.1 M0	7 36 23.261	307.02	-.15	- 0 8 42.74	-818.3	-20.3	4	58.63
6891	- 4 2031	8.4 B9	7 36 24.585	297.34	-.10	- 4 40 44.10	-818.5	-19.6	3	57.18
6899	8 1841	8.0 K0	7 37 4.527	324.35	-.25	7 57 25.97	-823.8	-21.4	2	56.69
6900	83 191	7.8 K0	7 37 8.807	1327.10	-39.63	83 11 21.96	-824.4	-88.0	2	57.62
6903	11 1641	7.2 K0	7 37 16.565	331.45	-.30	11 12 19.53	-825.4	-21.8	2	58.15
6909	51 1342	8.4 K0	7 37 36.106	457.93	-1.69	51 3 46.45	-828.0	-30.2	4	58.92
6914	76 292	8.4 K0	7 38 7.855	802.03	-10.90	76 11 42.29	-832.2	-53.0	2	57.20
6924	0 2041	8.2 A0	7 38 23.401	308.91	-.16	0 44 39.02	-834.3	-20.3	2	58.20
6931	48 1563	7.6 K2	7 38 56.785	445.18	-1.53	48 38 29.24	-838.7	-29.3	2	57.61

Position 1950 + T = Position 1950 + T (1st term) + T² (2nd term) + T' (P. M.).

T in centuries from 1900. 0, T' in centuries from epoch.

No.	B.D. No.	M + Sp.	R.A. 1950	Precession		Decl. 1950	Precession		No. Obs.	Epoch 1900+
				1st Term	2nd Term		1st Term	2nd Term		
6933	58 1057	8.1 K5	7 39 7.916	504.94	-2.53	58 27 15.91	-840.1	-33.2	2	58.54
6938	- 3 2019	8.5 K5	7 39 42.434	300.12	-.12	- 3 24 2.74	-844.7	-19.7	2	58.60
6941	- 2 2251	8.2 A0	7 40 7.656	301.90	-.13	- 2 33 53.55	-848.0	-19.8	2	57.18
6946	45 1476	7.4 K0	7 40 45.651	430.32	-1.35	45 29 20.55	-853.1	-28.2	2	57.10
6953	- 1 1816	8.0 K2	7 41 4.228	304.74	-.15	- 1 13 40.66	-855.5	-19.9	2	58.17
6961	27 1464	8.4 K0	7 41 29.870	370.45	-.64	27 36 6.45	-858.9	-24.2	2	57.71
6964	32 1615	8.3 F0	7 41 32.974	384.13	-.78	32 28 1.66	-859.3	-25.1	2	57.63
6967	41 1717	8.0 K0	7 41 36.459	413.42	-1.13	41 18 56.29	-859.8	-27.0	2	57.72
6978	44 1670	8.5 G5	7 42 13.916	425.40	-1.30	44 24 25.39	-864.7	-27.8	2	57.19
6980	43 1733	8.6 K0	7 42 15.618	420.90	-1.24	43 17 44.66	-864.9	-27.5	2	59.64
6982	26 1638	8.1 K0	7 42 29.009	366.38	-.61	26 6 39.18	-866.7	-23.9	2	58.09
6988	38 1815	8.2 K0	7 43 16.793	402.64	-1.01	38 23 42.12	-873.0	-26.2	2	56.69
6989	16 1551	7.8 K0	7 43 17.810	343.09	-.41	16 33 40.91	-873.1	-22.3	2	58.14
6992	47 1484	7.7 K0	7 43 42.003	438.29	-1.51	47 27 43.36	-876.3	-28.5	2	57.61
7008	1 1905	7.6 G5	7 44 35.117	309.51	-.18	1 2 34.22	-883.2	-20.1	2	58.17
7024	31 1668	8.5 F0	7 45 34.825	379.34	-.77	31 2 8.75	-891.0	-24.6	2	56.65
7032	- 0 1828	8.4 K0	7 46 3.854	306.04	-.16	- 0 37 7.64	-894.8	-19.8	2	56.69
7034	20 1913	7.7 K0	7 46 18.254	350.58	-.49	19 53 44.80	-896.7	-22.7	2	56.17
7049	55 1226	6.8 K5	7 47 21.470	476.72	-2.22	54 51 36.72	-904.9	-30.8	2	56.17
7057	73 387	8.1 G0	7 47 58.519	693.64	-7.98	72 52 14.08	-909.7	-44.8	2	56.20
7069	57 1110	7.2 K2	7 48 22.856	491.53	-2.52	57 8 47.85	-912.9	-31.7	2	56.70
7071	14 1769	8.4 K0	7 48 35.426	337.63	-.38	14 17 56.42	-914.5	-21.7	2	56.64
7077	33 1608	8.7 K0	7 49 24.120	383.90	-.85	32 49 43.03	-920.8	-24.7	2	56.70
7087	20 1933	8.1 K7	7 50 9.152	351.18	-.51	20 18 32.33	-926.7	-22.5	2	57.17
7090	15 1689	8.1 K0	7 50 25.724	340.68	-.42	15 43 46.71	-928.8	-21.8	2	58.20
7092	17 1696	7.3 K0	7 50 34.294	343.46	-.44	16 58 35.91	-929.9	-22.0	2	57.06
7094	50 1485	7.9 K0	7 51 2.410	447.82	-1.79	49 55 0.71	-933.5	-28.7	2	57.07
7097	5 1824	8.5 A0	7 51 11.689	318.79	-.25	5 32 21.53	-934.7	-20.4	2	56.63
7118	18 1778	7.4 K2	7 51 56.203	346.20	-.48	18 13 57.62	-940.3	-22.1	2	56.72
7124	27 1501	8.4 G5	7 52 4.787	367.98	-.70	27 12 43.96	-941.5	-23.4	2	56.71
7127	36 1712	8.7 G5	7 52 20.660	393.28	-.99	36 5 47.43	-943.6	-25.1	2	56.16
7128	9 1813	7.2 G5	7 52 27.605	327.01	-.31	9 28 57.09	-944.5	-20.8	2	56.72
7133	25 1794	7.7 K0	7 53 0.765	361.71	-.63	24 47 56.31	-948.8	-23.0	2	56.73
7139	64 661	8.7 G5	7 53 19.599	553.40	-4.09	64 27 13.79	-951.2	-35.3	2	56.19
7141	37 1804	8.0 K0	7 53 26.979	396.03	-1.04	37 1 50.73	-952.1	-25.2	2	56.63
7152	14 1790	8.3 A2	7 53 52.920	337.65	-.41	14 28 35.12	-955.4	-21.4	2	56.70
7155	7 1873	8.1 A2	7 54 3.306	322.77	-.29	7 29 31.12	-956.8	-20.5	2	56.72
7157	46 1335	8.6 G5	7 54 26.450	431.25	-1.57	46 34 23.14	-959.7	-27.4	2	57.60
7161	33 1623	8.3 K0	7 54 46.813	383.67	-.89	33 4 36.33	-962.3	-24.3	2	57.19
7170	75 321	8.0 G5	7 55 32.937	762.58	-11.40	75 35 16.74	-968.2	-48.5	2	57.18
7183	35 1722	7.5 M0	7 56 10.976	388.56	-.97	34 49 0.81	-973.1	-24.5	2	56.69
7185	74 340	8.7 G5	7 56 19.961	724.89	-9.92	74 22 35.58	-974.2	-46.0	2	57.61
7189	15 1722	8.2 K0	7 56 32.997	339.70	-.43	15 30 9.53	-975.9	-21.4	2	57.18
7205	40 1978	7.6 K0	7 57 33.166	405.18	-1.21	40 2 55.02	-983.5	-25.5	4	57.62
7211	76 302	8.4 G5	7 57 47.709	799.30	-13.33	76 41 37.50	-985.4	-50.5	2	57.06
7225	14 1808	8.0 G5	7 58 47.064	336.65	-.41	14 10 48.26	-992.9	-21.1	2	58.14
7230	27 1524	8.0 K0	7 59 8.308	365.85	-.71	26 46 41.31	-995.6	-22.9	2	56.70
7235	68 517	7.9 K0	7 59 16.926	591.58	-5.44	67 48 47.84	-996.7	-37.2	4	58.96
7241	6 1858	8.4 G5	7 59 41.947	320.99	-.29	6 43 50.65	-999.8	-20.1	4	59.16
7251	10 1710	7.8 K2	8 0 30.612	327.88	-.35	10 5 2.52	-1006.0	-20.5	2	57.70

Position 1950 + T = Position 1950 + T (1st term) + T² (2nd term) + T' (P. M.).

T in centuries from 1900.0, T' in centuries from epoch.

No.	B. D. No.	M + Sp.	R.A. 1950	Precession		Decl. 1950	Precession		No. Obs.	Epoch 1900+
				1st Term	2nd Term		1st Term	2nd Term		
7257	55 1243	7.8 G5	8 0 50.392	476.14	-2.53	55 37 37.17	-1008.5	-29.8	2	56.71
7267	34 1735	8.3 G5	8 1 15.011	384.56	-.96	33 48 19.88	-1011.6	-24.0	2	56.70
7271	62 976	8.5 K5	8 1 26.474	530.58	-3.82	62 41 14.13	-1013.0	-33.1	2	57.17
7279	12 1762	8.4 K0	8 2 7.916	332.47	-.39	12 19 17.74	-1018.2	-20.7	2	56.61
7282	31 1726	8.5 K0	8 2 27.473	377.68	-.88	31 27 33.37	-1020.7	-23.5	2	58.17
7284	18 1839	7.8 K5	8 2 29.840	344.16	-.50	17 45 54.69	-1021.0	-21.4	3	59.09
7285	5 1869	8.6 A0	8 2 39.213	318.52	-.27	5 33 44.40	-1022.2	-19.8	2	58.09
7287	13 1832	7.1 K0	8 2 45.625	335.22	-.42	13 38 51.76	-1023.0	-20.8	3	58.53
7293	19 1925	8.7 A5	8 3 10.985	346.60	-.53	18 53 25.29	-1026.2	-21.5	2	56.70
7296	81 263	8.4 G5	8 3 19.115	1048.40	-29.13	81 11 57.23	-1027.2	-65.4	3	57.88
7297	50 1508	8.6 F2	8 3 20.223	444.24	-1.95	50 2 16.02	-1027.3	-27.6	2	57.64
7311	40 1995	8.2 K2	8 4 17.684	403.31	-1.26	39 59 14.05	-1034.5	-25.0	2	57.17
7317	48 1612	7.8 K5	8 4 35.265	435.72	-1.82	48 18 34.79	-1036.7	-27.0	2	58.16
7324	69 455	8.5 G5	8 5 1.802	614.25	-6.50	69 35 13.71	-1040.0	-38.0	2	57.18
7354	59 1144	8.1 K0	8 6 35.704	499.21	-3.21	59 20 27.65	-1051.7	-30.7	2	57.20
7358	- 4 2235	7.4 M0	8 6 46.403	298.57	-.14	- 4 24 19.86	-1053.0	-18.3	4	58.48
7361	17 1776	8.1 K0	8 7 3.218	342.93	-.51	17 23 59.12	-1055.1	-21.0	2	56.72
7377	31 1753	8.0 K0	8 8 22.960	376.57	-.92	31 27 15.19	-1064.9	-23.0	2	58.16
7381	23 1905	8.5 A0	8 8 32.397	356.83	-.67	23 37 54.97	-1066.1	-21.8	2	57.61
7394	25 1872	8.6 F0	8 9 4.081	360.81	-.72	25 19 50.77	-1070.0	-22.0	2	57.08
7402	40 2010	8.3 K0	8 9 50.961	402.39	-1.32	40 8 17.83	-1075.8	-24.5	2	56.69
7403	11 1784	7.8 K5	8 9 53.570	329.94	-.39	11 20 31.12	-1076.1	-20.1	2	57.72
7406	74 350	7.9 K5	8 10 20.908	717.37	-11.03	74 38 49.50	-1079.5	-43.8	2	56.71
7410	17 1797	8.3 K2	8 10 47.243	341.27	-.51	16 47 55.77	-1082.7	-20.7	2	57.18
7412	38 1881	8.5 K0	8 10 53.185	394.86	-1.21	37 54 22.58	-1083.4	-24.0	2	58.20
7413	22 1886	8.5 F5	8 10 53.889	353.73	-.65	22 25 54.08	-1083.5	-21.5	2	57.64
7420	1 2035	8.4 K2	8 11 14.932	310.09	-.23	1 24 32.63	-1086.1	-18.8	3	58.50
7435	70 502	7.8 K0	8 12 25.416	620.47	-7.20	70 19 55.18	-1094.7	-37.6	2	56.71
7437	44 1728	9.0 G5	8 12 28.730	417.03	-1.60	44 25 52.53	-1095.1	-25.2	2	58.15
7441	0 2232	8.2 K5	8 12 51.706	307.45	-.21	0 3 58.84	-1097.9	-18.5	2	57.17
7442	30 1677	9.0 G5	8 12 53.352	371.34	-.88	29 47 53.99	-1098.1	-22.4	2	57.71
7455	9 1915	7.7 K2	8 13 32.299	326.12	-.37	9 33 40.22	-1102.8	-19.6	2	57.71
7477	- 1 2001	8.4 K0	8 14 46.962	304.06	-.18	- 1 40 58.82	-1111.9	-18.2	2	57.18
7490	6 1924	8.4 K5	8 15 43.379	319.23	-.31	6 7 41.82	-1118.8	-19.1	4	59.47
7493	67 534	6.8 M0	8 16 0.826	577.21	-5.88	67 41 6.68	-1120.9	-34.6	2	57.73
7495	45 1561	8.2 K2	8 16 4.994	420.52	-1.72	45 37 29.36	-1121.4	-25.2	2	58.72
7501	57 1131	7.8 G5	8 16 19.502	480.79	-3.04	57 27 45.56	-1123.1	-28.8	2	57.64
7506	31 1784	8.5 K2	8 16 27.572	373.47	-.94	30 52 26.98	-1124.1	-22.3	2	58.65
7508	51 1409	8.5 M0	8 16 39.867	446.21	-2.24	51 28 46.61	-1125.6	-26.7	2	58.72
7512	- 0 1962	8.2 K0	8 17 2.643	306.11	-.20	- 0 37 51.84	-1128.3	-18.2	3	58.79
7513	19 1979	8.6 M0	8 17 8.197	346.66	-.59	19 36 40.92	-1129.0	-20.6	2	57.11
7515	38 1897	8.2 K2	8 17 16.800	395.12	-1.28	38 30 15.84	-1130.0	-23.5	2	58.65
7519	59 1161	8.0 A0	8 17 36.996	492.66	-3.38	59 15 14.20	-1132.5	-29.4	4	59.68
7521	78 284	8.3 A0	8 17 45.008	830.24	-17.96	78 5 58.06	-1133.4	-49.7	2	57.71
7526	22 1914	8.1 G5	8 18 8.950	352.23	-.67	22 11 28.19	-1136.3	-20.9	2	57.70
7533	- 3 2314	8.5 K0	8 18 35.157	299.15	-.15	- 4 15 12.16	-1139.4	-17.7	2	57.74
7537	13 1899	8.2 K2	8 18 43.613	332.64	-.44	12 58 23.82	-1140.5	-19.7	2	58.22
7538	49 1729	7.5 K0	8 18 48.197	436.58	-2.07	49 38 20.78	-1141.0	-25.9	2	56.68
7541	14 1878	7.6 K0	8 19 0.805	335.68	-.48	14 28 44.63	-1142.5	-19.9	2	57.18
7550	11 1824	7.4 K0	8 19 39.430	328.27	-.40	10 49 20.97	-1147.2	-19.4	2	57.72

Position 1950 + T = Position 1950 + T (1st term) + T² (2nd term) + T' (P. M.).

T in centuries from 1900.0, T' in centuries from epoch.

No.	B. D. No.		M + Sp.	R. A. 1950	Precession		Decl. 1950	Precession		No. Obs.	Epoch 1900+
					1st Term	2nd Term		1st Term	2nd Term		
7556	62	996	7.8 B9	8 19 54.461	517.30	-4.14	62 27 42.48	-1148.9	-30.6	2	57.10
7558	47	1572	8.6 G5	8 20 6.901	424.48	-1.85	46 57 19.80	-1150.4	-25.1	2	58.16
7562	36	1808	8.3 K2	8 20 32.069	388.12	-1.20	36 28 35.31	-1153.4	-22.9	2	56.71
7567	7	1971	7.6 K5	8 20 49.860	320.68	-.33	6 58 30.25	-1155.5	-18.8	2	57.65
7568	31	1806	7.4 K0	8 20 59.067	374.10	-.99	31 27 47.94	-1156.7	-22.0	2	57.18
7575	56	1295	8.8 K5	8 21 32.532	468.45	-2.87	55 56 14.73	-1160.6	-27.6	2	56.68
7587	30	1706	8.7 K0	8 22 14.901	369.62	-.93	29 48 54.99	-1165.7	-21.7	2	57.18
7589	24	1921	8.6 K0	8 22 19.855	356.88	-.75	24 30 49.03	-1166.2	-20.9	2	58.21
7600	- 3	2341	7.2 K5	8 23 18.714	299.73	-.15	- 4 0 49.31	-1173.2	-17.5	2	56.72
7605	10	1798	7.8 K0	8 23 33.215	325.85	-.39	9 42 27.40	-1174.9	-19.0	2	56.68
7614	66	553	7.9 K0	8 24 27.353	554.16	-5.51	66 22 48.32	-1181.3	-32.4	2	56.72
7616	61	1052	8.7 A5	8 24 30.441	502.91	-3.88	61 6 35.84	-1181.7	-29.4	2	56.70
7617	27	1613	8.9 K0	8 24 30.329	362.35	-.84	27 0 42.39	-1181.7	-21.1	2	58.14
7636	17	1852	9.0 G5	8 25 35.914	340.25	-.56	17 1 8.69	-1189.4	-19.7	4	58.13
7644	71	459	7.9 F8	8 26 17.474	622.42	-8.26	71 11 35.45	-1194.2	-36.2	2	56.68
7649	76	326	8.1 G5	8 26 28.772	734.50	-13.72	75 54 27.22	-1195.5	-42.7	2	57.72
7667	19	2021	8.4 K2	8 27 38.988	344.35	-.61	19 6 42.09	-1203.7	-19.8	2	57.71
7673	38	1916	7.4 K5	8 27 48.689	392.14	-1.34	38 27 37.77	-1204.9	-22.6	2	58.16
7685	7	1988	8.4 K5	8 28 32.125	320.74	-.35	7 10 32.56	-1210.0	-18.4	2	57.71
7688	63	784	8.2 K5	8 28 46.088	516.43	-4.45	63 1 18.66	-1211.6	-29.7	2	57.64
7694	29	1772	7.2 G5	8 29 13.852	367.43	-.94	29 29 23.16	-1214.8	-21.0	2	58.18
7697	42	1886	7.9 G5	8 29 21.995	404.02	-1.58	42 18 37.45	-1215.7	-23.2	2	58.18
7698	13	1936	7.6 K0	8 29 25.529	331.79	-.47	12 58 22.68	-1216.1	-19.0	2	59.73
7712	31	1833	8.5 K2	8 30 5.020	372.73	-1.04	31 40 47.91	-1220.7	-21.3	4	58.69
7719	27	1627	8.3 G5	8 30 37.027	362.44	-.88	27 31 0.04	-1224.4	-20.7	3	58.54
7726	- 2	2613	7.9 K5	8 31 0.693	302.15	-.18	- 2 48 19.55	-1227.1	-17.2	2	58.26
7732	18	1978	7.1 K2	8 31 32.071	342.76	-.61	18 34 11.95	-1230.7	-19.5	2	57.71
7733	52	1322	7.5 G5	8 31 32.041	444.13	-2.50	52 22 23.40	-1230.7	-25.3	2	57.17
7753	49	1750	7.0 M0	8 33 6.132	430.36	-2.20	49 33 0.98	-1241.5	-24.4	2	56.68
7754	79	277	8.5 K2	8 33 8.893	860.97	-22.82	79 16 24.14	-1241.8	-49.0	2	57.23
7757	29	1785	8.0 K0	8 33 20.049	365.14	-.94	28 52 54.32	-1243.1	-20.6	2	57.18
7769	19	2049	8.5 A2	8 34 26.668	343.37	-.63	19 2 41.91	-1250.7	-19.3	2	57.62
7777	54	1247	8.2 K0	8 34 55.711	450.26	-2.73	53 53 55.33	-1254.0	-25.3	4	59.15
7786	17	1896	7.7 F5	8 35 39.235	339.58	-.58	17 14 9.99	-1259.0	-19.0	2	58.19
7787	12	1881	8.4 K0	8 35 39.425	330.69	-.47	12 39 50.74	-1259.0	-18.5	2	58.72
7798	2	2034	8.2 K0	8 36 29.678	311.52	-.26	2 19 7.61	-1264.7	-17.3	2	57.62
7799	41	1864	7.6 K2	8 36 31.629	399.16	-1.58	41 32 36.25	-1264.9	-22.3	2	58.73
7806	- 4	2410	8.0 K2	8 36 54.770	298.85	-.15	- 4 40 59.32	-1267.5	-16.6	2	57.69
7815	38	1940	7.8 K0	8 37 29.546	389.01	-1.39	38 20 14.68	-1271.4	-21.6	2	57.71
7826	63	789	7.1 K5	8 37 44.880	515.53	-4.78	63 38 3.82	-1273.1	-28.7	2	57.18
7830	57	1162	8.4 G5	8 37 52.018	465.37	-3.21	56 52 3.13	-1274.0	-25.9	2	57.18
7845	61	1070	7.4 K0	8 38 56.285	493.54	-4.09	61 6 37.10	-1281.2	-27.4	2	56.68
7862	18	2022	7.9 K0	8 40 17.840	341.21	-.62	18 19 52.09	-1290.3	-18.8	2	56.17
7871	17	1919	8.4 F0	8 40 37.669	338.67	-.59	17 3 51.02	-1292.5	-18.6	2	56.71
7879	9	2038	7.3 K0	8 40 59.295	324.43	-.41	9 31 16.36	-1294.9	-17.8	2	56.72
7882	3	2041	8.2 K0	8 41 33.298	313.10	-.28	3 14 41.39	-1298.7	-17.1	2	57.16
7883	44	1783	8.4 F8	8 41 39.704	406.83	-1.80	44 21 59.92	-1299.4	-22.3	2	56.68
7896	54	1253	8.4 K5	8 42 15.295	447.55	-2.82	54 5 56.37	-1303.4	-24.5	2	58.16
7898	38	1953	8.3 K0	8 42 16.291	388.17	-1.42	38 32 6.17	-1303.5	-21.2	2	56.70
7910	10	1867	8.0 K0	8 43 20.293	325.40	-.43	10 8 5.69	-1310.5	-17.7	2	58.17

Position 1950 + T = Position 1950 + T (1st term) + T² (2nd term) + T' (P. M.).

T in centuries from 1900.0, T' in centuries from epoch.

No.	B. D. No.		M + Sp.	R.A. 1950	Precession		Decl. 1950		Precession		No. Obs.	Epoch 1900+
					1st Term	2nd Term			1st Term	2nd Term		
7914	5	2050	8.4 G5	8 43 34.013	317.00	-.33	5 28 12.94	-1312.1	-17.2	2	57.16	
7921	72	429	8.3 K0	8 43 45.396	621.80	-9.58	72 12 19.20	-1313.3	-34.0	2	57.25	
7924	54	1254	8.7 A0	8 44 5.689	449.08	-2.91	54 34 53.74	-1315.5	-24.4	2	56.70	
7927	36	1870	8.3 K2	8 44 12.732	382.27	-1.33	36 38 26.51	-1316.3	-20.7	2	58.18	
7932	9	2053	8.2 A5	8 44 28.094	324.30	-.42	9 34 3.73	-1318.0	-17.5	3	59.13	
7935	23	1999	9.2 F2	8 44 40.892	350.59	-.78	23 16 28.83	-1319.4	-18.9	2	57.71	
7936	63	798	7.8 G5	8 44 45.859	509.08	-4.84	63 30 32.73	-1320.0	-27.6	2	58.62	
7942	56	1336	8.2 K2	8 45 16.566	459.02	-3.22	56 30 45.52	-1323.3	-24.8	2	57.17	
7947	43	1858	8.5 K0	8 45 33.018	401.90	-1.75	43 19 59.51	-1325.1	-21.7	2	57.19	
7949	31	1884	8.6 K0	8 45 43.455	366.73	-1.05	30 39 55.15	-1326.3	-19.8	2	58.19	
7955	89	13	7.0 A2	8 45 53.673	4973.05	-1446.5	88 46 13.73	-1327.5	-271.3	2	57.73	
7957	13	1995	7.8 G5	8 46 0.003	330.03	-.49	12 46 54.31	-1328.1	-17.7	2	59.68	
7962	-4	2461	7.7 K0	8 46 34.045	298.50	-.15	-5 3 12.42	-1331.8	-16.0	2	57.73	
7963	70	536	7.0 M0	8 46 36.676	589.05	-8.22	70 29 11.39	-1332.1	-31.8	2	58.72	
7971	26	1848	8.1 K0	8 47 11.499	357.08	-.90	26 32 28.33	-1335.8	-19.1	3	58.82	
7983	46	1446	7.2 K5	8 47 58.418	410.60	-1.99	46 7 16.60	-1340.9	-22.0	2	56.69	
7985	18	2059	8.1 K5	8 48 7.655	340.00	-.64	18 13 16.52	-1341.9	-18.1	2	58.16	
7988	16	1833	7.3 G5	8 48 22.950	336.10	-.58	16 11 13.24	-1343.6	-17.9	2	58.65	
7993	35	1883	8.2 K5	8 49 0.572	377.65	-1.29	35 24 55.16	-1347.7	-20.1	3	59.21	
8001	19	2113	8.8 K0	8 49 12.930	341.51	-.66	19 5 0.29	-1349.0	-18.1	2	57.23	
8003	25	2003	8.4 F5	8 49 15.777	354.13	-.86	25 20 52.37	-1349.3	-18.8	2	57.20	
8014	42	1940	8.2 K5	8 50 8.500	396.53	-1.69	42 10 31.39	-1355.0	-21.0	2	56.16	
8015	57	1178	8.2 G5	8 50 14.120	461.64	-3.44	57 28 14.60	-1355.6	-24.5	2	57.71	
8018	10	1897	8.3 G0	8 50 26.117	325.27	-.44	10 20 15.12	-1356.9	-17.2	2	57.71	
8019	62	1028	8.1 F5	8 50 28.589	495.22	-4.56	62 22 34.72	-1357.1	-26.3	2	58.61	
8021	8	2136	8.6 G5	8 50 35.554	321.08	-.39	7 58 2.91	-1357.9	-16.9	2	57.74	
8023	2	2084	8.0 K2	8 50 58.693	310.93	-.27	2 6 10.52	-1360.4	-16.4	2	58.18	
8025	69	490	8.2 K0	8 51 7.390	558.36	-7.12	68 39 39.07	-1361.3	-29.6	2	59.73	
8027	53	1290	7.8 K0	8 51 17.848	438.07	-2.76	53 8 49.58	-1362.4	-23.1	2	56.71	
8028	30	1792	8.0 G5	8 51 21.177	364.83	-1.06	30 24 30.70	-1362.8	-19.2	2	57.25	
8029	27	1685	6.9 K5	8 51 22.786	357.49	-.93	27 6 52.02	-1362.9	-18.8	2	57.65	
8030	20	2234	7.5 M0	8 51 23.562	342.53	-.69	19 45 58.67	-1363.0	-18.0	4	59.68	
8032	-0	2087	8.3 K2	8 51 25.535	306.61	-.22	-0 25 17.62	-1363.2	-16.1	2	58.74	
8044	-4	2491	8.4 A5	8 52 2.154	298.60	-.14	-5 6 15.77	-1367.1	-15.6	2	58.72	
8046	60	1157	8.0 K0	8 52 9.136	480.14	-4.10	60 31 41.67	-1367.9	-25.3	2	57.70	
8049	65	672	8.7 K2	8 52 25.703	517.13	-5.47	65 3 47.40	-1369.6	-27.2	2	56.73	
8060	18	2082	8.2 K5	8 53 1.461	338.68	-.63	17 51 25.41	-1373.4	-17.7	2	58.17	
8062	23	2015	8.6 F2	8 53 9.546	349.14	-.80	23 15 48.80	-1374.3	-18.2	2	57.23	
8063	39	2174	7.5 K0	8 53 9.787	386.10	-1.50	39 0 16.53	-1374.3	-20.2	2	57.20	
8069	41	1889	7.6 M0	8 53 55.892	393.20	-1.67	41 32 1.53	-1379.2	-20.5	2	57.72	
8076	16	1862	7.7 G0	8 54 30.699	335.93	-.60	16 28 33.26	-1382.9	-17.4	2	56.18	
8077	21	1946	8.0 K5	8 54 33.684	345.50	-.75	21 32 38.93	-1383.2	-17.9	2	58.24	
8078	67	569	8.2 G0	8 54 36.207	538.10	-6.44	67 16 9.21	-1383.5	-28.1	2	57.74	
8082	56	1351	7.9 G5	8 54 44.477	450.88	-3.23	56 3 19.26	-1384.3	-23.5	2	58.61	
8083	47	1625	7.6 K0	8 54 53.232	410.69	-2.10	46 56 44.75	-1385.3	-21.3	3	59.11	
8084	75	355	8.4 K0	8 54 54.118	684.06	-14.21	75 37 26.36	-1385.3	-35.7	2	57.72	
8089	48	1705	8.8 K0	8 55 0.277	415.44	-2.23	48 14 36.70	-1386.0	-21.6	3	58.55	
8098	2	2114	8.2 K0	8 55 43.856	311.14	-.27	2 16 2.52	-1390.6	-16.0	2	58.23	
8125	29	1851	7.7 K5	8 57 20.890	360.01	-1.01	28 51 52.44	-1400.7	-18.5	2	57.17	
8126	-1	2174	7.8 K2	8 57 25.982	303.41	-.19	-2 21 9.05	-1401.2	-15.5	2	57.65	

Position 1950 + T = Position 1950 + T (1st term) + T² (2nd term) + T' (P. M.).

T in centuries from 1900.0, T' in centuries from epoch.

No.	B.D. No.	M + Sp.	R.A. 1950	Precession		Decl. 1950	Precession		No. Obs.	Epoch 1900+
				1st Term	2nd Term		1st Term	2nd Term		
8130	54 1270	8.2 G5	8 57 43.698	437.32	-2.89	53 43 22.09	-1403.1	-22.5	2	57.71
8132	59 1212	7.5 K0	8 57 59.637	469.86	-3.94	59 36 47.68	-1404.8	-24.1	2	57.62
8136	37 1938	8.4 G5	8 58 12.262	379.31	-1.41	37 5 14.65	-1406.1	-19.4	2	57.18
8139	63 815	8.3 M2	8 58 29.115	497.60	-4.97	63 26 36.31	-1407.8	-25.5	2	56.18
8146	83 236	8.4 G0	8 58 44.720	1125.26	-57.56	83 22 30.76	-1409.4	-58.0	2	57.26
8157	31 1923	7.8 K5	8 59 39.516	365.46	-1.14	31 33 46.54	-1415.1	-18.6	2	58.18
8159	22 2039	8.0 G5	8 59 52.807	344.98	-.76	21 43 1.73	-1416.5	-17.5	2	58.24
8161	9 2112	8.5 A2	8 59 56.497	321.76	-.41	8 40 55.68	-1416.9	-16.3	3	59.21
8164	57 1189	8.4 K7	9 0 6.513	455.76	-3.53	57 32 4.24	-1417.9	-23.2	2	57.63
8168	27 1708	8.2 K2	9 0 17.133	356.26	-.96	27 24 35.54	-1419.0	-18.0	2	58.65
8180	44 1817	7.7 K2	9 1 9.135	396.98	-1.85	43 38 28.55	-1424.3	-20.1	2	57.17
8181	40 2146	8.8 M0	9 1 11.589	387.79	-1.63	40 34 0.32	-1424.6	-19.6	2	56.70
8193	13 2036	7.4 G5	9 2 13.290	329.87	-.53	13 32 37.73	-1430.9	-16.5	3	59.20
8196	- 4 2533	8.2 K0	9 2 25.683	300.01	-.15	- 4 28 27.88	-1432.2	-15.0	2	58.71
8197	1 2231	8.3 K0	9 2 27.076	309.33	-.25	1 13 37.52	-1432.3	-15.5	2	57.64
8204	17 2004	8.0 A2	9 2 57.266	336.89	-.64	17 35 26.35	-1435.4	-16.8	2	57.73
8206	46 1472	8.4 K0	9 3 4.294	405.11	-2.08	46 22 18.57	-1436.1	-20.3	2	58.67
8207	61 1101	7.9 K0	9 3 8.727	473.56	-4.24	60 43 44.86	-1436.5	-23.8	2	57.73
8209	15 1977	7.6 M0	9 3 35.206	333.07	-.59	15 28 32.45	-1439.2	-16.6	2	56.68
8210	52 1362	7.2 K0	9 3 41.386	425.58	-2.67	51 49 52.96	-1439.9	-21.3	2	58.19
8212	24 2040	8.7 M0	9 3 48.597	349.84	-.87	24 35 25.98	-1440.6	-17.4	2	58.65
8221	69 506	7.7 M0	9 4 29.928	553.89	-7.75	69 24 48.62	-1444.8	-27.7	2	57.24
8226	47 1642	7.5 K0	9 4 42.456	408.74	-2.21	47 37 32.38	-1446.0	-20.3	2	57.73
8229	55 1315	8.6 K0	9 4 54.676	440.76	-3.17	55 17 15.64	-1447.3	-21.9	2	58.74
8233	41 1922	8.2 K5	9 5 14.406	388.55	-1.70	41 20 51.52	-1449.3	-19.3	2	58.17
8234	14 2033	7.3 K5	9 5 21.175	330.75	-.55	14 14 42.27	-1449.9	-16.3	2	58.65
8240	17 2018	7.3 K0	9 5 46.655	335.31	-.62	16 54 17.53	-1452.5	-16.5	2	58.19
8243	4 2126	8.2 F8	9 6 16.835	314.01	-.32	4 9 44.41	-1455.5	-15.4	2	59.19
8246	8 2172	7.0 K0	9 6 22.018	319.77	-.39	7 42 59.74	-1456.0	-15.7	2	59.26
8247	6 2109	7.9 G5	9 6 23.868	316.67	-.35	5 48 38.86	-1456.2	-15.5	2	57.73
8254	32 1845	8.6 K0	9 6 45.977	365.34	-1.19	32 19 56.78	-1458.4	-18.0	2	57.71
8256	43 1885	8.4 A5	9 6 50.884	393.19	-1.84	43 8 39.30	-1458.9	-19.3	5	59.78
8261	23 2055	7.6 K5	9 7 5.223	345.95	-.81	22 52 53.65	-1460.4	-17.0	2	57.72
8264	38 2006	8.0 G5	9 7 35.906	380.08	-1.52	38 33 0.48	-1463.4	-18.6	2	56.71
8268	1 2247	8.1 F5	9 8 1.337	309.38	-.26	1 17 29.29	-1466.0	-15.1	4	57.96
8276	45 1688	7.1 K0	9 8 27.850	398.35	-1.99	45 1 46.03	-1468.6	-19.4	2	57.77
8278	59 1225	7.6 K0	9 8 39.617	458.02	-3.87	58 55 2.45	-1469.8	-22.4	2	56.72
8282	29 1879	8.0 K0	9 8 58.709	357.77	-1.05	29 4 38.31	-1471.6	-17.4	2	56.71
8286	- 2 2808	8.4 K0	9 9 15.456	302.68	-.17	- 2 56 16.30	-1473.3	-14.6	2	57.70
8299	12 1991	8.6 G5	9 10 10.772	327.25	-.51	12 27 20.01	-1478.8	-15.8	2	58.18
8302	24 2054	7.8 K0	9 10 39.115	348.34	-.88	24 30 0.67	-1481.5	-16.8	2	57.62
8307	8 2186	8.2 F5	9 11 4.274	319.64	-.40	7 48 35.07	-1484.0	-15.3	2	57.19
8315	30 1834	8.2 G5	9 11 24.023	359.41	-1.10	30 9 8.26	-1485.9	-17.3	4	58.92
8319	28 1718	8.8 K0	9 11 38.651	354.93	-1.01	27 59 30.10	-1487.4	-17.0	2	56.73
8321	12 1997	8.0 K2	9 11 58.154	325.85	-.49	11 42 17.24	-1489.3	-15.6	2	57.72
8322	23 2062	8.3 K0	9 12 0.293	345.13	-.82	22 55 12.49	-1489.5	-16.5	2	58.23
8324	37 1956	8.2 K0	9 12 1.768	375.35	-1.46	37 16 5.57	-1489.6	-18.0	2	57.18
8332	51 1492	8.5 K0	9 12 39.759	416.95	-2.60	50 53 19.83	-1493.3	-19.9	2	57.19
8344	20 2293	8.4 F0	9 13 14.438	340.17	-.74	20 16 56.36	-1496.7	-16.2	2	57.17
8354	43 1901	7.9 K0	9 13 49.251	390.82	-1.88	43 17 41.62	-1500.1	-18.6	4	57.91

Position 1950 + T = Position 1950 + T (1st term) + T² (2nd term) + T' (P. M.).

T in centuries from 1900. 0, T' in centuries from epoch.

No.	B. D. No.		M + Sp.	R.A. 1950	Precession		Decl. 1950	Precession		No. Obs.	Epoch 1900+
					1st Term	2nd Term		1st Term	2nd Term		
8355	78	303	7.8 G5	9 13 52.170	730.61	-20.37	78 10 42.26	-1500.4	-35.0	2	56.69
8363	31	1961	8.1 K0	9 14 26.679	361.49	-1.17	31 30 39.27	-1503.7	-17.1	2	56.24
8368	61	1111	8.5 A2	9 14 49.963	467.04	-4.41	61 5 50.52	-1505.9	-22.1	2	56.73
8369	17	2053	8.1 A0	9 14 51.212	334.14	-.63	16 54 55.50	-1506.0	-15.7	2	56.72
8381	52	1380	8.1 F0	9 15 43.740	419.06	-2.73	51 50 40.62	-1511.1	-19.7	2	57.18
8382	42	1994	8.1 K0	9 15 47.016	386.09	-1.77	41 54 36.02	-1511.4	-18.2	2	56.65
8397	60	1181	7.5 K0	9 16 40.971	458.60	-4.14	59 59 35.06	-1516.5	-21.5	2	58.17
8398	10	1972	7.0 K0	9 16 49.287	322.72	-.45	10 0 6.76	-1517.3	-15.1	2	56.18
8427	12	2024	8.2 K2	9 18 41.787	326.61	-.52	12 34 10.55	-1528.0	-15.1	2	57.10
8431	67	586	8.7 K	9 18 47.775	513.09	-6.61	67 13 0.42	-1528.6	-23.9	2	56.72
8439	22	2082	7.7 K0	9 19 8.604	341.68	-.79	21 42 43.69	-1530.5	-15.8	2	56.72
8445	46	1494	8.8 G5	9 19 22.480	398.11	-2.16	46 29 34.45	-1531.8	-18.4	2	57.15
8446	- 2	2863	8.0 K2	9 19 23.571	303.42	-.18	- 2 35 34.24	-1532.0	-13.9	2	58.17
8448	63	838	8.5 K2	9 19 33.723	479.14	-5.09	63 23 18.86	-1532.9	-22.2	2	57.71
8452	81	295	8.7 K0	9 19 55.373	835.53	-31.53	80 45 38.13	-1534.9	-38.8	2	57.19
8457	55	1331	7.5 K0	9 20 15.409	431.70	-3.25	55 24 27.79	-1536.8	-19.9	2	56.72
8461	71	503	8.6 G5	9 20 50.738	550.96	-8.73	70 39 37.06	-1540.1	-25.4	2	57.17
8473	- 4	2608	7.7 K2	9 21 25.024	299.64	-.13	- 5 8 46.84	-1543.3	-13.6	2	56.19
8482	44	1861	7.7 K0	9 22 2.819	390.05	-1.97	44 14 0.19	-1546.8	-17.7	2	56.71
8489	6	2173	7.8 K0	9 22 44.186	316.94	-.37	6 28 29.33	-1550.6	-14.3	2	57.62
8508	17	2084	7.9 M0	9 23 51.587	332.92	-.64	16 54 56.05	-1556.9	-15.0	2	56.65
8512	- 1	2260	8.5 K0	9 24 16.769	305.06	-.19	- 1 32 49.88	-1559.2	-13.6	2	56.74
8513	29	1903	8.8 K0	9 24 25.433	354.70	-1.09	29 27 7.62	-1559.9	-15.9	2	56.72
8522	49	1841	7.9 K0	9 24 57.580	403.90	-2.43	49 5 59.18	-1562.9	-18.1	2	56.64
8528	28	1761	8.8 K0	9 25 14.557	352.50	-1.05	28 24 27.58	-1564.4	-15.7	2	57.15
8531	10	2002	8.0 K2	9 25 25.852	322.70	-.46	10 26 11.07	-1565.4	-14.4	2	57.24
8532	50	1644	7.4 M0	9 25 36.008	407.56	-2.56	50 14 59.76	-1566.4	-18.2	2	56.19
8539	52	1395	8.8 G5	9 26 5.314	412.86	-2.75	51 46 5.37	-1569.0	-18.4	2	57.64
8541	41	1968	8.0 K0	9 26 14.771	378.65	-1.71	40 38 57.44	-1569.9	-16.8	2	56.72
8543	0	2522	8.4 K0	9 26 18.755	307.37	-.22	0 1 59.35	-1570.2	-13.6	2	57.71
8545	18	2207	7.4 K0	9 26 46.067	334.03	-.67	17 52 17.03	-1572.7	-14.8	2	57.18
8555	25	2105	8.6 K0	9 27 13.235	345.68	-.91	24 54 0.98	-1575.2	-15.2	3	59.14
8559	59	1238	7.3 K2	9 27 31.940	444.47	-3.95	58 58 37.86	-1576.9	-19.7	2	58.25
8573	16	1984	7.6 K0	9 28 53.822	330.78	-.62	15 59 28.32	-1584.2	-14.4	2	56.70
8575	42	2018	8.8 A0	9 29 0.009	382.43	-1.85	42 33 13.30	-1584.7	-16.7	2	57.65
8580	9	2195	8.5 K0	9 29 13.258	320.87	-.44	9 24 34.75	-1585.9	-14.0	3	59.20
8581	48	1779	8.1 K0	9 29 14.387	399.84	-2.38	48 33 12.24	-1586.0	-17.5	2	58.19
8583	37	1995	8.0 A2	9 29 21.256	369.93	-1.50	37 28 57.93	-1586.6	-16.1	2	58.74
8589	20	2335	7.7 K0	9 29 52.316	337.08	-.74	20 4 39.87	-1589.4	-14.6	2	57.26
8590	7	2147	7.4 K2	9 29 53.568	317.73	-.39	7 17 7.41	-1589.5	-13.8	2	59.17
8591	63	848	7.8 G5	9 29 54.231	467.40	-5.01	63 3 0.76	-1589.6	-20.4	2	59.22
8593	31	2000	8.1 K0	9 30 4.198	355.78	-1.16	30 47 30.09	-1590.4	-15.5	2	59.24
8601	61	1131	8.2 K0	9 30 34.585	454.84	-4.48	61 12 20.90	-1593.1	-19.8	2	57.69
8623	8	2243	7.7 M0	9 32 1.892	319.22	-.41	8 24 38.82	-1600.8	-13.7	2	56.61
8636	65	723	8.1 G5	9 32 33.015	476.10	-5.53	64 35 40.60	-1603.6	-20.5	2	56.73
8646	34	2010	8.5 K0	9 33 14.925	361.66	-1.33	34 14 30.28	-1607.2	-15.4	2	57.11
8648	5	2204	7.2 K2	9 33 27.519	313.94	-.33	4 44 20.97	-1608.3	-13.3	2	56.70
8650	17	2108	8.4 K0	9 33 33.838	332.38	-.66	17 27 16.68	-1608.9	-14.1	2	56.70
8668	69	526	8.1 F0	9 34 38.949	519.25	-7.92	69 30 52.16	-1614.5	-22.1	2	57.72
8674	48	1789	8.1 F8	9 34 46.348	394.54	-2.32	47 47 12.85	-1615.2	-16.7	2	57.25

Position 1950 + T = Position 1950 + T (1st term) + T² (2nd term) + T' (P. M.).

T in centuries from 1900.0, T' in centuries from epoch.

No.	B. D. No.		M + Sp.	R.A. 1950		Precession		Decl. 1950		Precession		No. Obs.	Epoch 1900+
						1st Term	2nd Term			1st Term	2nd Term		
8676	11	2067	8.5 K5	9 34	57.905	322.66	-.48	10 58	53.71	-1616.1	-13.6	2	57.26
8685	59	1249	7.1 M0	9 35	22.978	437.36	-3.92	58 46	27.74	-1618.3	-18.5	2	57.09
8695	22	2112	8.5 K0	9 35	52.123	338.71	-.80	21 45	56.22	-1620.8	-14.2	2	58.21
8704	15	2091	8.1 G5	9 36	20.080	327.81	-.58	14 38	55.17	-1623.2	-13.7	2	57.72
8712	- 2	2948	8.4 K5	9 36	49.864	303.99	-.16	- 2 26	39.13	-1625.7	-12.6	2	57.70
8716	3	2249	7.2 G5	9 37	3.624	311.99	-.29	3 25	19.36	-1626.9	-12.9	3	58.53
8723	32	1912	8.7 K5	9 37	43.664	355.56	-1.22	31 49	19.65	-1630.3	-14.7	2	57.09
8743	16	2010	7.7 K0	9 39	1.473	329.41	-.62	15 59	0.67	-1636.9	-13.5	2	56.71
8745	48	1796	8.5 K5	9 39	19.430	391.96	-2.31	47 43	9.79	-1638.4	-16.1	2	56.25
8754	37	2016	7.3 K2	9 40	1.627	365.82	-1.51	37 21	27.38	-1641.9	-14.9	2	56.61
8770	12	2082	7.8 K5	9 41	1.344	324.06	-.51	12 23	21.90	-1646.9	-13.1	2	56.18
8772	1	2352	8.2 F0	9 41	3.983	308.28	-.23	0 42	59.00	-1647.1	-12.4	2	56.71
8774	22	2124	8.8 K0	9 41	5.907	338.54	-.82	22 17	49.78	-1647.3	-13.7	2	57.23
8776	39	2275	8.5 K0	9 41	12.975	368.23	-1.59	38 41	18.72	-1647.9	-14.9	2	57.63
8778	35	2046	7.6 M0	9 41	15.530	360.47	-1.38	34 57	3.23	-1648.1	-14.6	2	57.18
8785	2	2243	8.1 K0	9 41	48.520	310.24	-.26	2 11	54.92	-1650.8	-12.5	2	57.25
8787	17	2125	8.2 G5	9 41	49.462	329.98	-.64	16 38	38.14	-1650.9	-13.3	2	57.20
8808	85	150	7.8 G8	9 44	22.279	1113.35	-84.07	84 42	59.15	-1663.4	-44.9	2	56.71
8809	33	1907	7.5 M0	9 44	22.650	355.76	-1.28	33 0	52.29	-1663.4	-14.1	2	56.69
8817	49	1880	8.0 K2	9 44	46.179	393.70	-2.47	49 16	52.08	-1665.4	-15.6	2	57.17
8820	11	2102	7.8 K0	9 44	48.372	321.88	-.48	11 4	34.32	-1665.5	-12.7	2	57.73
8822	6	2211	8.8 A5	9 45	0.287	314.86	-.34	5 47	30.88	-1666.5	-12.4	2	57.26
8830	55	1349	8.8 K5	9 45	28.495	414.44	-3.28	55 21	39.20	-1668.8	-16.4	2	56.73
8838	47	1707	8.7 A2	9 46	3.844	385.98	-2.23	46 51	18.63	-1671.6	-15.2	2	56.73
8843	18	2274	7.4 K0	9 46	19.859	331.65	-.69	18 17	28.16	-1672.9	-13.0	2	57.17
8844	25	2157	8.8 K2	9 46	21.642	341.13	-.91	24 40	37.86	-1673.1	-13.3	2	57.72
8848	- 4	2728	8.2 M0	9 46	34.448	301.36	-.11	- 4 38	31.33	-1674.1	-11.7	2	56.71
8850	52	1424	7.5 K5	9 46	46.179	400.05	-2.75	51 38	40.26	-1675.0	-15.7	2	57.20
8853	26	2013	8.6 K2	9 47	7.138	342.47	-.95	25 38	33.83	-1676.7	-13.3	2	57.17
8859	75	396	8.4 K0	9 47	36.841	573.31	-12.71	74 39	35.82	-1679.1	-22.5	2	58.71
8861	42	2051	8.5 K0	9 47	46.154	374.13	-1.87	42 30	22.75	-1679.8	-14.5	2	57.23
8864	2	2255	7.8 K0	9 47	56.033	309.95	-.25	2 3	43.01	-1680.6	-12.0	2	57.18
8868	80	302	8.8 K0	9 48	15.173	715.05	-25.98	79 53	49.56	-1682.1	-28.0	2	57.71
8871	1	2370	8.8 A2	9 48	23.186	308.65	-.23	1 2	27.73	-1682.7	-11.9	2	57.26
8872	16	2039	7.9 K0	9 48	29.344	328.89	-.63	16 33	17.53	-1683.2	-12.7	2	58.65
8882	20	2387	7.7 K0	9 49	2.532	334.21	-.76	20 23	59.56	-1685.8	-12.8	2	57.26
8888	36	2006	6.9 M0	9 49	30.852	359.20	-1.43	35 45	35.48	-1688.1	-13.8	2	57.70
8889	41	2021	7.9 K0	9 49	31.155	369.09	-1.73	40 36	43.79	-1688.1	-14.1	2	57.16
8894	23	2156	8.0 K0	9 50	2.822	337.58	-.84	22 51	21.20	-1690.6	-12.9	2	57.23
8895	65	741	7.7 K0	9 50	4.859	461.38	-5.65	65 1	30.61	-1690.8	-17.7	2	57.72
8896	58	1219	8.3 K2	9 50	5.847	423.33	-3.80	58 15	53.27	-1690.8	-16.2	2	57.71
8900	11	2117	8.3 G5	9 50	40.221	321.75	-.48	11 24	25.59	-1693.5	-12.2	2	57.73
8904	15	2127	7.3 G0	9 51	5.305	326.39	-.58	14 58	28.92	-1695.5	-12.3	2	56.63
8913	5	2248	6.8 K5	9 51	29.890	313.77	-.32	5 10	54.50	-1697.3	-11.8	2	56.71
8919	45	1774	8.5 G5	9 51	43.700	378.10	-2.05	44 55	48.82	-1698.4	-14.3	2	57.20
8924	- 1	2319	8.0 K0	9 52	0.773	304.38	-.15	- 2 22	51.09	-1699.8	-11.4	2	57.25
8929	49	1896	8.2 A2	9 52	22.278	387.74	-2.41	48 42	30.03	-1701.4	-14.6	2	56.68
8950	64	762	7.7 G5	9 53	47.288	448.27	-5.14	63 36	53.20	-1707.9	-16.7	2	57.18
8953	47	1724	8.5 K0	9 53	53.310	383.69	-2.29	47 32	30.55	-1708.4	-14.3	2	56.70
8954	0	2588	7.6 K5	9 54	5.604	307.05	-.19	- 0 13	23.86	-1709.3	-11.3	2	57.17

Position 1950 + T = Position 1950 + T (1st term) + T² (2nd term) + T' (P. M.).

T in centuries from 1900.0, T' in centuries from epoch.

No.	B.D. No.	M + Sp.	R.A. 1950	Precession		Decl. 1950	Precession		No. Obs.	Epoch 1900+
				1st Term	2nd Term		1st Term	2nd Term		
8959	24 2156	8.3 G5	9 54 17.861	338.72	-.89	24 15 22.86	-1710.3	-12.5	2	56.70
8962	19 2284	7.8 K0	9 54 37.511	331.98	-.73	19 31 41.58	-1711.8	-12.2	2	56.70
8965	17 2156	7.4 K0	9 54 49.836	328.15	-.63	16 41 51.89	-1712.7	-12.1	2	57.75
8966	35 2086	7.0 K5	9 54 51.583	356.57	-1.40	35 21 47.64	-1712.8	-13.1	2	58.17
8982	30 1940	8.1 K0	9 55 36.526	346.81	-1.13	29 46 26.07	-1716.2	-12.7	2	57.18
8983	76 371	8.0 K2	9 55 45.636	589.84	-15.13	76 17 14.10	-1716.9	-21.8	2	58.25
8989	57 1240	7.4 K0	9 56 10.200	412.02	-3.50	56 42 51.09	-1718.8	-15.1	3	56.84
8999	26 2031	8.6 K0	9 56 48.801	341.30	-.98	26 24 35.63	-1721.6	-12.4	2	56.74
9011	- 4 2775	7.6 K2	9 57 33.047	301.65	-.09	- 4 46 21.17	-1724.9	-10.8	2	57.26
9021	69 551	7.9 K0	9 58 25.005	486.07	-7.59	69 16 56.02	-1728.8	-17.6	2	57.17
9028	7 2219	8.4 F8	9 58 38.610	316.15	-.37	7 27 6.62	-1729.8	-11.3	2	56.69
9036	- 1 2338	8.8 F8	9 59 19.740	304.95	-.15	- 2 1 46.62	-1732.8	-10.8	2	56.70
9038	58 1230	8.9 K0	9 59 29.185	415.12	-3.74	58 6 38.20	-1733.5	-14.8	2	57.72
9045	46 1574	7.5 K0	9 59 57.178	377.60	-2.18	46 26 21.18	-1735.5	-13.4	2	56.63
9054	34 2073	8.8 F2	10 0 38.825	352.62	-1.34	34 16 1.74	-1738.6	-12.4	2	56.68
9058	4 2283	7.2 K0	10 1 2.786	312.21	-.29	4 12 50.60	-1740.3	-10.9	2	56.18
9064	56 1428	7.6 K5	10 1 33.602	404.22	-3.31	55 43 51.78	-1742.5	-14.2	2	56.80
9066	28 1835	8.1 A5	10 1 42.448	342.52	-1.04	28 5 24.25	-1743.2	-11.9	2	57.19
9071	51 1572	7.0 K2	10 1 59.998	387.99	-2.63	50 47 40.45	-1744.4	-13.5	2	56.72
9072	5 2280	7.5 G0	10 2 10.920	313.36	-.31	5 14 49.69	-1745.2	-10.9	2	56.61
9081	20 2430	8.2 G5	10 2 26.381	330.78	-.73	19 40 56.19	-1746.3	-11.5	2	57.80
9082	17 2169	8.6 K0	10 2 34.075	326.99	-.63	16 42 33.34	-1746.9	-11.3	2	58.24
9084	- 2 3052	7.3 K5	10 2 40.528	303.58	-.11	- 3 16 26.32	-1747.3	-10.5	2	57.17
9087	35 2102	7.2 K0	10 2 52.626	353.51	-1.39	35 14 47.18	-1748.2	-12.2	2	56.73
9091	67 634	7.6 K5	10 3 16.760	457.58	-6.16	66 33 32.94	-1749.9	-15.9	2	57.74
9092	31 2097	8.4 G5	10 3 18.491	347.20	-1.20	31 28 31.25	-1750.0	-12.0	2	57.17
9099	61 1165	7.0 K5	10 3 42.497	425.25	-4.39	61 9 51.50	-1751.7	-14.7	2	57.73
9101	42 2086	7.8 K2	10 3 48.299	366.85	-1.86	42 31 58.41	-1752.1	-12.6	2	56.73
9111	11 2166	8.1 K5	10 4 3.961	320.41	-.47	11 25 20.43	-1753.2	-10.9	2	56.64
9113	14 2202	8.8 M0	10 4 20.476	323.92	-.56	14 24 8.87	-1754.4	-11.0	2	57.18
9120	43 1990	8.7 G5	10 4 40.708	367.97	-1.90	43 15 51.01	-1755.8	-12.6	2	56.71
9130	27 1852	8.1 K0	10 5 19.721	340.05	-1.00	27 2 36.58	-1758.6	-11.5	2	57.26
9136	56 1434	7.8 K5	10 6 19.180	399.97	-3.26	55 32 3.53	-1762.7	-13.5	2	57.25
9139	83 280	7.3 K0	10 6 25.923	799.78	-43.09	82 38 51.54	-1763.2	-27.3	2	56.74
9141	49 1923	8.6 A3	10 6 39.113	379.97	-2.42	48 52 39.58	-1764.1	-12.8	2	56.71
9142	27 1853	8.0 F0	10 6 40.536	340.06	-1.01	27 18 1.70	-1764.2	-11.4	2	57.24
9147	10 2116	7.1 M0	10 6 52.444	318.31	-.43	9 50 19.74	-1765.0	-10.6	2	57.72
9148	- 3 2860	8.4 K5	10 6 57.054	303.23	-.09	- 3 42 6.76	-1765.3	-10.1	2	58.19
9150	3 2323	8.2 K0	10 7 6.908	311.09	-.26	3 24 28.88	-1766.0	-10.4	2	57.71
9152	62 1110	8.6 A2	10 7 10.974	427.12	-4.64	62 12 13.73	-1766.3	-14.3	2	58.69
9153	59 1291	8.4 K2	10 7 12.644	411.84	-3.86	58 51 52.94	-1766.4	-13.8	5	58.45
9156	65 756	7.9 K0	10 7 42.838	440.89	-5.44	64 47 25.46	-1768.5	-14.7	2	57.34
9164	- 1 2356	7.8 G5	10 8 28.810	304.96	-.12	- 2 10 5.32	-1771.6	-10.0	2	56.71
9167	67 637	8.6 K0	10 8 32.259	457.76	-6.50	67 27 16.73	-1771.9	-15.2	2	58.28
9169	30 1974	8.5 K0	10 8 54.033	343.85	-1.14	30 23 46.43	-1773.3	-11.3	2	56.73
9170	12 2162	7.8 K5	10 8 54.979	320.89	-.49	12 17 0.46	-1773.4	-10.5	2	57.16
9172	44 1958	8.5 F2	10 8 59.125	366.96	-1.95	43 47 7.81	-1773.7	-12.1	2	57.73
9176	54 1354	8.6 K5	10 9 3.171	394.38	-3.09	54 27 38.93	-1774.0	-13.0	4	59.21
9180	20 2447	7.7 G5	10 9 17.757	330.37	-.74	20 21 57.26	-1774.9	-10.8	4	57.48
9183	25 2212	8.6 K7	10 9 40.712	336.36	-.92	25 8 30.58	-1776.5	-11.0	2	57.28

Position 1950 + T = Position 1950 + T (1st term) + T² (2nd term) + T' (P. M.).

T in centuries from 1900.0, T' in centuries from epoch.

No.	B.D. No.	M + Sp.	R.A. 1950	Precession		Decl. 1950	Precession		No. Obs.	Epoch 1900+
				1st Term	2nd Term		1st Term	2nd Term		
9184	52 1461	7.2 G0	10 9 43.715	385.69	-2.72	51 43 26.25	-1776.7	-12.6	2	58.16
9185	7 2259	8.4 G5	10 9 49.430	314.82	-.34	6 54 52.78	-1777.1	-10.2	2	57.71
9192	23 2190	8.5 A2	10 10 18.473	333.60	-.84	23 7 0.02	-1779.0	-10.8	2	57.18
9198	9 2317	7.4 G5	10 10 51.263	317.51	-.41	9 26 2.96	-1781.2	-10.2	2	57.26
9199	- 0 2308	8.4 F8	10 10 51.480	306.59	-.16	- 0 41 33.78	-1781.3	-9.9	2	56.71
9201	1 2414	8.4 F0	10 10 56.077	308.06	-.19	0 41 11.21	-1781.6	-9.9	2	56.73
9206	45 1811	7.7 K2	10 11 8.512	369.15	-2.07	45 20 7.85	-1782.4	-11.9	2	57.24
9208	11 2190	7.9 G5	10 11 10.754	319.30	-.45	11 5 24.92	-1782.5	-10.3	2	57.27
9212	- 3 2873	7.9 K0	10 11 22.946	303.20	-.08	- 3 52 33.04	-1783.3	-9.7	2	56.70
9217	16 2098	7.2 K0	10 11 49.240	325.20	-.61	16 23 13.83	-1785.1	-10.4	2	57.23
9218	6 2276	7.9 K0	10 12 6.643	313.70	-.32	5 59 54.16	-1786.2	-10.0	2	56.68
9235	34 2105	8.6 K2	10 13 15.767	347.87	-1.32	34 2 37.38	-1790.8	-11.0	2	57.74
9239	4 2306	8.2 K0	10 13 36.410	311.30	-.26	3 47 55.91	-1792.1	-9.8	2	56.81
9249	2 2310	7.5 K2	10 14 16.969	309.45	-.21	2 2 51.65	-1794.8	-9.7	2	56.71
9250	8 2336	8.7 K0	10 14 17.528	316.21	-.38	8 29 43.22	-1794.8	-9.9	2	57.74
9267	54 1362	8.8 K2	10 15 30.935	387.55	-2.96	53 44 48.42	-1799.6	-12.1	2	57.72
9273	14 2230	8.0 G0	10 15 45.087	322.16	-.54	14 11 3.94	-1800.5	-9.9	2	58.28
9274	40 2313	8.3 M2	10 15 48.834	355.80	-1.63	39 33 44.92	-1800.7	-11.0	2	58.81
9276	49 1939	8.9 K0	10 15 49.792	374.50	-2.38	48 52 9.32	-1800.8	-11.6	2	56.70
9278	70 607	8.6 K2	10 15 58.591	469.44	-7.82	70 7 53.30	-1801.3	-14.6	2	58.29
9279	55 1384	8.0 K0	10 16 1.511	390.89	-3.13	54 58 36.24	-1801.5	-12.1	2	57.25
9287	10 2139	7.8 K2	10 16 49.154	317.76	-.42	10 10 17.91	-1804.5	-9.7	2	56.28
9288	23 2213	8.7 G5	10 16 53.095	331.70	-.82	22 45 29.49	-1804.8	-10.1	2	58.16
9289	16 2110	8.6 G5	10 16 57.823	323.97	-.59	15 59 44.94	-1805.1	-9.9	2	58.73
9291	0 2641	7.8 F0	10 17 5.416	307.37	-.16	0 2 29.69	-1805.6	-9.3	2	58.77
9293	21 2175	7.6 K2	10 17 9.594	329.18	-.75	20 39 20.40	-1805.9	-10.0	2	57.71
9297	26 2072	8.8 G5	10 17 42.671	335.37	-.94	25 55 48.59	-1807.9	-10.2	2	57.26
9298	12 2193	7.7 K0	10 17 46.935	319.16	-.46	11 36 16.63	-1808.2	-9.6	2	57.17
9300	4 2313	8.4 K2	10 17 55.326	311.23	-.25	3 52 28.75	-1808.7	-9.4	2	56.69
9303	46 1619	7.9 K2	10 18 12.863	367.82	-2.15	46 29 52.10	-1809.8	-11.1	2	56.69
9305	69 569	7.7 K0	10 18 21.341	458.09	-7.21	69 10 42.38	-1810.4	-13.9	2	57.74
9313	71 536	8.6 G5	10 18 55.972	477.89	-8.71	71 30 40.92	-1812.5	-14.5	2	58.19
9315	62 1121	8.2 K0	10 18 59.220	412.98	-4.40	61 39 6.21	-1812.7	-12.5	2	58.29
9317	58 1252	9.0 K0	10 19 5.526	399.76	-3.69	58 21 43.21	-1813.1	-12.0	2	57.25
9327	40 2321	8.3 K0	10 19 47.550	355.10	-1.65	40 10 43.15	-1815.7	-10.6	2	58.71
9331	31 2133	7.4 K0	10 20 11.030	341.31	-1.16	31 5 25.57	-1817.1	-10.1	2	57.26
9341	14 2237	8.3 F0	10 20 44.859	321.47	-.53	14 9 31.81	-1819.2	-9.4	2	56.68
9344	3 2357	8.4 K2	10 21 11.810	310.16	-.22	2 54 18.01	-1820.9	-9.1	2	57.71
9350	66 665	7.8 K0	10 21 31.449	433.31	-5.77	66 9 48.30	-1822.1	-12.8	2	57.26
9351	- 4 2861	7.3 K0	10 21 34.928	302.78	-.04	- 4 40 24.81	-1822.3	-8.8	2	58.19
9359	10 2147	8.5 K0	10 22 23.464	317.30	-.41	10 14 12.06	-1825.2	-9.2	2	58.69
9368	59 1309	8.8 K0	10 22 43.663	399.68	-3.83	59 12 45.40	-1826.4	-11.6	2	57.73
9369	41 2089	8.2 K0	10 22 43.858	355.44	-1.73	41 9 55.54	-1826.4	-10.3	2	56.69
9372	23 2221	8.9 K0	10 22 54.979	331.04	-.83	23 21 25.16	-1827.1	-9.5	2	57.19
9376	25 2249	7.3 K0	10 23 29.194	332.76	-.89	24 58 12.01	-1829.1	-9.5	3	57.52
9382	29 2046	8.4 F5	10 23 58.327	337.00	-1.04	28 37 45.95	-1830.9	-9.6	2	58.28
9387	0 2655	7.2 K2	10 24 20.063	307.43	-.15	0 6 24.98	-1832.2	-8.7	2	58.29
9392	22 2217	8.0 K2	10 24 37.429	329.01	-.78	21 52 15.49	-1833.2	-9.3	2	56.71
9398	63 901	8.3 K0	10 24 54.618	413.82	-4.74	63 10 16.16	-1834.2	-11.8	2	58.26
9401	43 2019	8.3 K5	10 25 0.421	357.92	-1.87	43 14 12.54	-1834.5	-10.1	2	57.19

Position 1950 + T = Position 1950 + T (1st term) + T² (2nd term) + T' (P. M.).

T in centuries from 1900.0, T' in centuries from epoch.

No.	B.D. No.	M + Sp.	R.A. 1950	Precession		Decl. 1950	Precession		No. Obs.	Epoch 1900+
				1st Term	2nd Term		1st Term	2nd Term		
9402	- 0 2344	8.5 K0	10 25 2.106	306.67	-.13	- 0 42 27.10	-1834.6	-8.6	2	58.71
9404	19 2345	7.9 K0	10 25 15.878	325.65	-.67	18 50 50.89	-1835.5	-9.1	2	58.79
9412	27 1897	8.1 K0	10 25 57.585	334.70	-.98	27 10 45.40	-1837.9	-9.3	2	57.73
9419	60 1265	8.7 K0	10 26 18.272	400.47	-4.02	60 18 20.89	-1839.1	-11.2	2	57.79
9422	55 1394	7.4 K0	10 26 37.004	383.18	-3.09	55 4 54.52	-1840.2	-10.7	4	57.97
9427	17 2233	8.4 K2	10 27 2.661	323.68	-.62	17 14 10.98	-1841.6	-8.9	2	58.28
9435	38 2147	8.6 K2	10 27 21.273	348.36	-1.52	37 59 5.29	-1842.7	-9.6	2	57.71
9436	64 790	8.0 K5	10 27 22.166	415.71	-4.99	64 8 2.45	-1842.8	-11.5	2	58.71
9441	78 349	7.9 G5	10 27 31.053	549.08	-16.47	77 45 18.46	-1843.3	-15.3	2	58.73
9448	50 1744	8.6 K0	10 27 50.942	369.50	-2.45	49 56 12.21	-1844.4	-10.1	2	58.80
9454	22 2230	8.6 K0	10 28 24.279	328.84	-.79	22 28 52.00	-1846.3	-9.0	2	58.81
9459	31 2148	8.3 K0	10 28 49.451	338.80	-1.15	31 17 56.49	-1847.7	-9.2	2	58.82
9462	- 2 3165	8.4 K0	10 29 1.282	304.97	-.08	- 2 36 34.72	-1848.4	-8.2	2	58.77
9463	18 2372	7.4 G0	10 29 23.396	324.29	-.65	18 14 50.64	-1849.6	-8.7	2	58.28
9464	48 1873	8.6 K2	10 29 27.842	364.03	-2.23	47 47 47.36	-1849.9	-9.8	2	57.24
9469	54 1379	7.9 K5	10 29 42.484	377.52	-2.90	53 50 40.78	-1850.7	-10.2	2	58.23
9470	5 2347	7.0 K0	10 29 42.683	311.73	-.26	4 54 9.36	-1850.7	-8.3	2	58.71
9472	15 2218	8.7 K0	10 30 8.704	320.89	-.54	14 52 42.66	-1852.2	-8.5	2	59.27
9476	77 404	7.6 K0	10 30 28.951	527.50	-14.72	76 59 25.07	-1853.3	-14.2	2	58.25
9477	25 2263	7.9 K0	10 30 31.319	331.45	-.90	25 22 58.74	-1853.4	-8.8	2	58.29
9488	44 1998	8.8 G0	10 31 10.319	355.63	-1.88	43 43 22.67	-1855.6	-9.4	2	58.20
9493	34 2141	9.3 K	10 31 40.905	340.85	-1.27	33 43 6.93	-1857.3	-8.9	2	57.76
9495	4 2351	8.7 K2	10 31 42.910	311.16	-.24	4 22 11.91	-1857.4	-8.1	2	57.79
9507	69 579	8.0 K0	10 32 28.819	438.41	-6.92	69 11 56.67	-1859.9	-11.5	2	58.23
9517	31 2164	8.4 K0	10 33 8.457	336.63	-1.11	30 39 34.76	-1862.0	-8.7	2	57.70
9523	19 2355	8.2 A0	10 33 29.968	324.20	-.66	18 54 45.05	-1863.2	-8.3	2	57.28
9527	71 542	8.9 F8	10 33 37.750	449.50	-7.89	70 55 16.63	-1863.6	-11.7	2	57.80
9530	16 2139	8.4 K0	10 33 52.718	321.66	-.58	16 17 44.24	-1864.4	-8.2	2	58.71
9535	37 2102	7.9 K2	10 34 13.489	344.79	-1.47	37 29 17.53	-1865.5	-8.8	2	57.25
9538	51 1615	9.0 A7	10 34 18.427	367.19	-2.51	50 48 39.48	-1865.8	-9.4	2	57.80
9539	58 1268	9.0 G5	10 34 27.812	385.67	-3.52	58 7 28.86	-1866.3	-9.9	2	56.70
9541	24 2251	8.0 F5	10 34 31.958	328.71	-.83	23 42 35.23	-1866.5	-8.3	2	58.18
9556	49 1977	7.8 K0	10 35 37.216	363.57	-2.36	49 28 6.55	-1869.9	-9.1	4	59.46
9557	7 2339	8.6 G5	10 35 41.207	313.01	-.30	6 44 41.26	-1870.2	-7.8	2	57.72
9559	20 2509	8.2 A3	10 35 50.631	324.67	-.69	19 52 31.27	-1870.7	-8.1	2	57.16
9563	45 1850	8.1 K5	10 36 1.659	355.38	-1.97	45 6 30.57	-1871.2	-8.9	2	58.24
9574	29 2073	8.4 K2	10 36 43.905	333.66	-1.04	29 0 43.60	-1873.4	-8.2	2	57.80
9577	40 2354	7.8 K0	10 36 56.379	346.61	-1.58	39 39 55.90	-1874.1	-8.6	2	56.71
9587	5 2374	8.4 K0	10 37 45.018	311.27	-.24	4 48 5.00	-1876.6	-7.6	2	57.80
9590	42 2140	7.6 K0	10 37 51.875	349.21	-1.71	41 47 17.18	-1876.9	-8.5	2	56.71
9598	- 3 2976	8.8 F5	10 38 37.164	304.49	-.03	- 3 30 2.59	-1879.2	-7.3	2	57.26
9603	14 2281	7.7 M0	10 38 57.675	319.07	-.50	14 14 24.29	-1880.2	-7.7	2	57.72
9606	0 2694	8.1 F8	10 39 1.767	307.32	-.12	- 0 0 38.66	-1880.5	-7.3	2	57.73
9615	37 2112	8.4 G0	10 39 34.774	341.66	-1.40	36 46 53.03	-1882.1	-8.2	2	57.80
9617	3 2403	8.3 K0	10 39 37.528	309.78	-.19	3 3 31.23	-1882.3	-7.4	2	58.26
9619	56 1472	7.3 K5	10 39 47.045	375.65	-3.15	56 9 11.37	-1882.7	-9.0	2	57.28
9624	62 1142	7.4 K5	10 40 3.789	394.96	-4.36	62 28 28.73	-1883.6	-9.4	2	58.73
9626	17 2265	8.4 K0	10 40 6.854	321.62	-.60	17 23 12.96	-1883.7	-7.6	2	58.71
9631	- 3 2980	8.3 K5	10 40 31.141	304.04	-.02	- 4 8 40.78	-1884.9	-7.1	2	58.69
9633	43 2040	7.9 K0	10 40 54.044	348.95	-1.76	42 38 12.71	-1886.1	-8.2	2	57.18

Position 1950 + T = Position 1950 + T (1st term) + T² (2nd term) + T' (P. M.).

T in centuries from 1900.0, T' in centuries from epoch.

No.	B. D. No.	M + Sp.	R.A. 1950	Precession		Decl. 1950	Precession		No. Obs.	Epoch 1900+
				1st Term	2nd Term		1st Term	2nd Term		
9634	50 1760	7.0 K0	10 40 56.312	361.30	-2.40	50 3 48.77	-1886.2	-8.5	2	56.81
9638	53 1432	8.0 K0	10 41 22.410	366.27	-2.68	52 40 19.15	-1887.5	-8.6	2	58.26
9642	49 1986	7.8 K0	10 41 55.844	358.33	-2.26	48 48 31.66	-1889.1	-8.3	2	57.70
9645	73 504	7.6 K0	10 42 9.564	448.95	-8.75	72 33 3.64	-1889.8	-10.5	2	57.26
9652	32 2072	8.4 G0	10 42 41.532	335.42	-1.17	32 25 27.51	-1891.3	-7.7	2	57.81
9653	24 2265	8.8 K0	10 42 43.255	326.86	-.82	23 50 33.35	-1891.4	-7.5	2	56.68
9655	1 2477	7.7 K0	10 42 55.114	308.31	-.14	1 16 27.25	-1892.0	-7.0	2	57.28
9657	8 2409	7.6 K0	10 42 57.093	313.35	-.31	7 46 40.13	-1892.0	-7.1	2	57.71
9658	59 1325	9.0 K5	10 42 57.743	381.63	-3.65	59 19 27.36	-1892.1	-8.8	2	57.72
9660	10 2199	8.6 K2	10 43 5.565	315.31	-.38	10 17 6.94	-1892.5	-7.2	2	58.71
9662	6 2347	7.9 A5	10 43 7.465	311.68	-.25	5 38 48.92	-1892.6	-7.1	2	58.34
9667	26 2128	8.4 G5	10 43 33.851	328.55	-.89	25 52 35.53	-1893.8	-7.4	2	57.71
9672	35 2181	8.2 M2	10 43 55.678	337.81	-1.30	34 59 41.17	-1894.9	-7.6	2	58.79
9677	43 2045	7.2 K2	10 44 0.579	348.30	-1.80	43 17 25.47	-1895.1	-7.9	2	57.34
9678	34 2158	8.3 G5	10 44 1.067	336.47	-1.24	33 49 23.55	-1895.1	-7.6	2	57.77
9690	19 2373	7.8 G5	10 45 0.231	322.30	-.65	19 13 36.55	-1897.9	-7.1	2	56.68
9693	45 1866	7.4 K0	10 45 12.962	350.26	-1.93	45 3 57.81	-1898.5	-7.8	2	57.15
9695	14 2299	7.9 F2	10 45 24.562	318.36	-.50	14 28 33.37	-1899.0	-7.0	2	57.81
9701	- 2 3221	8.0 F5	10 45 59.547	305.11	-.03	- 2 59 27.24	-1900.7	-6.7	2	57.26
9706	27 1938	8.4 M2	10 46 16.787	328.91	-.93	27 4 5.79	-1901.5	-7.2	2	57.16
9709	16 2170	8.7 F5	10 46 42.515	319.48	-.55	16 8 31.99	-1902.6	-6.9	2	58.28
9716	61 1204	8.0 G5	10 47 2.819	382.38	-3.91	60 52 26.85	-1903.6	-8.3	2	56.72
9731	7 2374	8.6 A0	10 48 14.913	312.47	-.28	7 7 38.19	-1906.8	-6.6	2	57.71
9734	36 2129	9.3 F8	10 48 19.667	337.31	-1.34	36 6 15.64	-1907.0	-7.2	2	58.26
9737	43 2052	9.0 K0	10 48 35.638	344.88	-1.72	42 30 58.95	-1907.8	-7.3	2	58.71
9738	24 2281	8.8 G5	10 48 45.324	325.24	-.79	23 39 56.80	-1908.2	-6.8	2	57.26
9744	1 2492	8.6 K5	10 49 11.879	308.29	-.13	1 21 41.96	-1909.4	-6.4	2	56.71
9764	15 2257	8.5 F5	10 50 13.934	318.06	-.50	15 0 22.24	-1912.1	-6.5	4	57.49
9767	59 1333	8.5 G5	10 50 16.488	374.78	-3.56	59 18 55.79	-1912.2	-7.8	2	56.73
9772	26 2145	6.8 M0	10 50 51.527	327.10	-.90	26 28 26.95	-1913.7	-6.7	2	56.68
9773	71 552	8.6 G5	10 50 52.440	421.89	-7.30	70 53 25.75	-1913.8	-8.7	2	58.26
9783	13 2322	7.2 K0	10 51 39.545	316.13	-.43	12 38 16.21	-1915.8	-6.4	2	56.81
9785	32 2085	8.5 G5	10 51 43.921	331.83	-1.13	31 59 49.70	-1916.0	-6.7	2	57.71
9786	54 1404	8.3 K0	10 51 43.975	360.99	-2.74	53 50 42.41	-1916.0	-7.3	2	57.72
9788	44 2028	8.9 K0	10 51 45.856	344.98	-1.80	43 50 59.31	-1916.1	-7.0	2	57.81
9790	63 930	8.5 K2	10 51 51.136	384.88	-4.36	63 12 58.92	-1916.3	-7.8	2	58.71
9791	21 2262	8.3 F5	10 51 51.411	322.38	-.70	21 2 23.34	-1916.3	-6.5	2	58.77
9794	6 2368	7.4 K0	10 52 9.860	311.50	-.25	6 6 52.08	-1917.1	-6.2	2	56.80
9796	- 2 3247	8.5 F0	10 52 16.311	305.57	-.02	- 2 34 48.38	-1917.4	-6.1	2	57.71
9799	69 592	8.8 F8	10 53 5.437	406.72	-6.19	68 50 55.90	-1919.5	-8.1	2	56.73
9803	46 1675	7.6 K0	10 53 22.221	347.04	-1.96	46 2 14.28	-1920.2	-6.8	2	57.16
9808	34 2183	8.3 K2	10 53 34.579	332.74	-1.20	33 38 54.25	-1920.7	-6.5	2	57.81
9814	40 2385	8.5 K0	10 53 56.391	339.29	-1.55	40 4 46.82	-1921.6	-6.6	2	57.72
9820	35 2196	8.2 K0	10 54 17.757	334.24	-1.29	35 27 56.73	-1922.5	-6.5	2	56.80
9827	38 2197	9.0 F8	10 54 40.071	336.60	-1.42	37 54 57.57	-1923.4	-6.5	2	57.74
9836	68 624	8.9 K0	10 55 25.449	398.64	-5.72	67 51 38.15	-1925.2	-7.7	2	58.71
9837	25 2319	7.6 K0	10 55 27.042	324.36	-.81	24 38 35.63	-1925.3	-6.2	2	57.34
9841	- 2 3259	8.5 K2	10 55 39.666	305.25	.00	- 3 13 0.27	-1925.8	-5.8	2	58.77
9842	14 2324	7.9 F5	10 55 40.773	316.24	-.45	13 32 46.77	-1925.9	-6.0	2	58.22
9843	62 1156	8.2 K0	10 55 42.983	376.84	-4.01	61 59 1.59	-1925.9	-7.2	2	57.73

Position 1950 + T = Position 1950 + T (1st term) + T² (2nd term) + T' (P. M.).

T in centuries from 1900.0, T' in centuries from epoch.

No.	B. D. No.		M + Sp.	R.A. 1950		Precession		Decl. 1950			Precession		No. Obs.	Epoch 1900+
						1st Term	2nd Term				1st Term	2nd Term		
9848	34	2188	8.1 G0	10 56	8.225	331.73	-1.19	33 35	5.83	-1926.9	-6.2	2	58.24	
9852	- 3	3024	8.0 K5	10 56	21.101	304.50	.03	- 4 24	36.18	-1927.5	-5.7	2	58.81	
9854	18	2429	7.1 K0	10 56	28.699	319.28	-.59	18 5	42.75	-1927.7	-6.0	2	57.34	
9859	5	2425	8.2 K5	10 56	59.555	310.26	-.20	4 37	19.92	-1929.0	-5.7	2	58.79	
9871	29	2110	8.3 F0	10 58	5.134	327.49	-1.00	29 29	14.68	-1931.6	-6.0	2	57.72	
9876	67	677	8.1 K0	10 58	22.158	389.83	-5.24	66 43	7.93	-1932.2	-7.2	2	56.27	
9879	6	2387	8.3 K5	10 58	28.163	310.80	-.22	5 36	8.68	-1932.5	-5.6	6	58.72	
9884	50	1788	8.7 K5	10 58	46.810	349.18	-2.26	49 52	42.25	-1933.2	-6.3	2	57.79	
9887	38	2205	7.7 K0	10 58	54.065	335.10	-1.42	38 16	36.92	-1933.5	-6.0	2	57.69	
9893	46	1685	8.6 K2	10 59	19.147	343.38	-1.91	45 52	50.03	-1934.4	-6.1	2	57.70	
9912	41	2155	8.1 K0	11 0	17.373	337.01	-1.57	40 46	26.41	-1936.6	-5.9	2	57.19	
9919	33	2072	8.5 K5	11 0	57.479	329.08	-1.12	32 34	26.05	-1938.1	-5.7	2	57.28	
9924	8	2452	7.2 K0	11 1	5.323	312.01	-.27	7 51	6.59	-1938.4	-5.4	2	56.78	
9925	39	2410	8.1 K0	11 1	5.756	335.06	-1.46	39 13	50.81	-1938.4	-5.8	2	56.77	
9928	10	2240	7.7 K2	11 1	20.415	313.43	-.34	10 13	10.69	-1939.0	-5.4	2	57.18	
9930	17	2309	8.4 F2	11 1	26.475	317.35	-.52	16 31	34.28	-1939.2	-5.4	2	57.79	
9933	15	2282	8.2 K2	11 1	36.274	316.05	-.46	14 31	7.59	-1939.5	-5.4	2	56.69	
9953	45	1892	7.7 K2	11 2	56.392	339.76	-1.80	44 34	18.53	-1942.5	-5.7	2	57.33	
9954	54	1414	7.6 M0	11 2	58.290	352.82	-2.66	54 7	15.74	-1942.5	-5.9	2	56.70	
9956	66	697	8.0 G5	11 3	0.041	381.71	-4.93	66 8	45.33	-1942.6	-6.4	4	59.45	
9958	12	2300	8.3 K0	11 3	3.700	314.53	-.40	12 21	33.68	-1942.7	-5.2	2	57.23	
9966	25	2338	8.4 G5	11 3	26.710	322.20	-.79	24 29	51.02	-1943.5	-5.3	2	57.25	
9967	1	2519	7.2 M0	11 3	28.128	308.17	-.10	1 28	52.25	-1943.6	-5.1	2	57.26	
9970	56	1498	7.1 K2	11 3	43.433	356.15	-2.94	56 21	44.04	-1944.1	-5.9	2	56.71	
9977	21	2282	7.4 K0	11 4	15.769	319.52	-.65	20 45	14.49	-1945.3	-5.2	4	58.97	
9986	49	2020	8.4 A5	11 4	48.052	344.11	-2.14	49 5	36.08	-1946.4	-5.6	2	56.80	
9992	23	2308	7.8 K2	11 5	13.675	320.91	-.74	23 14	39.85	-1947.3	-5.1	2	57.73	
9995	9	2452	8.1 F5	11 5	29.939	312.48	-.30	9 17	40.75	-1947.9	-4.9	2	57.79	
9996	7	2417	8.3 F8	11 5	38.017	311.10	-.23	6 50	40.53	-1948.1	-4.9	2	58.26	
9999	- 3	3053	8.4 K5	11 5	45.500	305.34	.04	- 3 37	32.34	-1948.4	-4.8	2	58.25	
10000	36	2157	7.4 K0	11 5	50.882	330.29	-1.28	36 16	54.00	-1948.6	-5.2	2	57.35	
10003	34	2200	9.0 G0	11 5	56.879	328.50	-1.18	34 8	34.44	-1948.8	-5.2	2	57.80	
10004	59	1351	7.4 G5	11 5	58.299	360.28	-3.38	59 29	10.27	-1948.8	-5.7	2	57.78	
10005	0	2750	8.0 K2	11 6	1.903	307.17	-.05	- 0 17	30.26	-1948.9	-4.8	2	57.81	
10009	58	1303	8.5 K0	11 6	10.463	356.88	-3.12	57 53	20.48	-1949.2	-5.6	2	57.74	
10012	28	1971	8.1 F8	11 6	14.514	324.02	-.92	28 15	29.94	-1949.4	-5.1	2	56.71	
10035	26	2181	8.8 K0	11 8	26.713	322.06	-.84	26 18	9.56	-1953.8	-4.8	2	56.79	
10037	38	2215	8.7 K0	11 8	40.191	330.49	-1.37	37 58	12.21	-1954.2	-4.9	2	57.80	
10045	33	2088	8.5 G5	11 9	26.156	326.23	-1.11	32 53	12.64	-1955.7	-4.8	2	57.17	
10048	22	2329	8.7 K5	11 9	33.678	319.31	-.69	22 19	39.15	-1955.9	-4.7	2	57.81	
10051	13	2369	8.3 K2	11 9	40.921	314.31	-.41	13 29	33.77	-1956.1	-4.6	2	58.29	
10056	69	603	8.0 G0	11 9	56.290	382.92	-5.74	69 2	25.56	-1956.6	-5.6	2	57.73	
10059	16	2230	8.4 K5	11 10	1.896	315.88	-.50	16 28	47.05	-1956.8	-4.6	2	58.80	
10060	10	2260	7.6 K2	11 10	6.789	312.49	-.31	10 8	15.75	-1957.0	-4.5	2	58.25	
10068	53	1476	7.9 K0	11 10	43.253	345.33	-2.48	53 7	23.52	-1958.1	-5.0	2	58.23	
10069	30	2123	8.5 F8	11 10	43.695	323.67	-.97	29 49	29.65	-1958.1	-4.6	2	57.85	
10072	63	947	7.7 G5	11 11	4.522	361.83	-3.86	62 33	15.97	-1958.8	-5.2	2	57.77	
10074	4	2439	8.8 F5	11 11	15.667	309.15	-.14	3 41	48.68	-1959.1	-4.3	2	58.82	
10077	24	2332	8.0 B9	11 11	26.273	319.91	-.75	24 6	55.16	-1959.4	-4.5	2	58.75	
10079	20	2573	7.4 G5	11 11	45.691	317.66	-.62	20 18	12.85	-1960.0	-4.4	2	57.74	

Position 1950 + T = Position 1950 + T (1st term) + T² (2nd term) + T' (P. M.).

T in centuries from 1900.0, T' in centuries from epoch.

No.	B. D. No.		M + Sp.	R. A. 1950		Precession		Decl. 1950		Precession		No. Obs.	Epoch 1900+
						1st Term	2nd Term			1st Term	2nd Term		
10080	1	2539	8.3 K2	11 11	46.216	307.89	-0.07	1 9	34.04	-1960.0	-4.3	2	58.34
10081	- 1	2499	8.6 F0	11 11	52.225	306.28	.02	- 2 9	19.39	-1960.2	-4.2	3	58.84
10084	74	456	7.2 K5	11 11	56.333	402.70	-8.18	73 44	47.66	-1960.4	-5.7	3	59.55
10097	15	2311	7.1 K0	11 12	48.221	314.85	-0.46	15 23	9.99	-1961.9	-4.3	2	57.26
10101	80	350	8.0 K0	11 12	53.182	459.05	-16.23	79 48	32.85	-1962.1	-6.4	2	56.18
10105	65	823	7.2 K0	11 12	59.457	366.17	-4.42	65 10	50.14	-1962.2	-5.0	2	57.70
10110	41	2172	8.6 F5	11 13	23.586	330.62	-1.49	40 48	11.94	-1963.0	-4.4	2	57.79
10127	17	2337	8.0 G5	11 14	38.336	315.47	-0.51	17 13	38.78	-1965.1	-4.1	2	56.68
10128	23	2329	8.8 K2	11 14	46.017	318.50	-0.70	23 6	4.06	-1965.4	-4.1	2	56.72
10131	25	2362	7.8 K0	11 15	6.014	319.64	-0.78	25 19	29.65	-1965.9	-4.1	2	56.26
10133	64	840	8.7 A0	11 15	33.822	361.14	-4.18	64 26	2.43	-1966.7	-4.7	2	57.34
10142	76	423	8.4 F0	11 16	14.876	412.44	-10.28	76 26	21.15	-1967.8	-5.3	2	56.80
10145	10	2274	8.0 A2	11 16	31.053	311.78	-0.29	10 1	28.96	-1968.3	-3.9	2	57.73
10151	71	568	8.1 G5	11 16	54.530	380.78	-6.42	71 13	21.98	-1968.9	-4.8	2	57.31
10157	19	2438	7.7 K0	11 17	12.577	316.04	-0.57	19 21	23.10	-1969.4	-3.9	2	56.16
10164	30	2137	7.3 K5	11 17	30.419	321.77	-0.97	30 23	39.85	-1969.9	-3.9	2	56.70
10175	3	2488	7.9 K0	11 18	13.948	308.65	-0.11	3 8	10.82	-1971.0	-3.7	2	57.25
10177	12	2328	8.6 K0	11 18	21.816	312.24	-0.33	11 29	35.51	-1971.3	-3.7	2	56.73
10186	36	2180	8.2 K0	11 18	47.671	324.64	-1.21	35 55	11.03	-1972.0	-3.8	2	57.74
10196	41	2183	7.8 G5	11 19	18.182	328.06	-1.49	41 18	5.26	-1972.7	-3.8	2	56.71
10198	0	2777	8.2 K5	11 19	22.759	307.26	-0.02	- 0 9	17.27	-1972.9	-3.5	2	56.76
10211	15	2326	8.2 K0	11 20	18.148	313.32	-0.42	14 35	51.56	-1974.3	-3.5	2	56.72
10212	63	957	7.7 F0	11 20	21.916	352.43	-3.76	62 59	28.37	-1974.4	-4.0	2	57.28
10225	49	2050	6.8 K5	11 21	48.534	332.72	-1.98	48 52	50.45	-1976.5	-3.6	2	57.70
10226	18	2488	7.4 G5	11 21	48.971	314.36	-0.50	17 37	6.03	-1976.5	-3.4	2	57.31
10229	60	1326	7.7 G5	11 21	52.807	345.55	-3.20	59 56	18.76	-1976.6	-3.7	2	56.71
10232	32	2146	7.8 K0	11 22	15.126	321.07	-1.02	32 6	0.65	-1977.1	-3.4	2	56.73
10241	20	2600	8.6 K2	11 22	36.022	315.12	-0.57	19 45	33.73	-1977.6	-3.3	2	57.26
10242	6	2448	7.8 K2	11 22	36.449	309.62	-0.17	6 0	52.57	-1977.7	-3.3	2	57.25
10249	59	1377	9.0 G5	11 22	59.891	343.13	-3.05	59 2	13.78	-1978.2	-3.6	2	57.72
10263	29	2160	7.6 F0	11 24	18.345	318.67	-0.88	28 40	56.84	-1980.0	-3.2	2	56.17
10270	69	608	8.6 A2	11 24	41.364	359.93	-5.10	68 42	12.85	-1980.5	-3.6	4	59.49
10271	24	2357	8.8 K0	11 24	47.805	316.26	-0.69	23 35	48.72	-1980.7	-3.1	2	56.70
10276	70	661	8.7 F0	11 25	1.736	363.32	-5.57	70 3	59.61	-1981.0	-3.6	2	57.81
10284	- 1	2528	8.4 K0	11 25	30.418	306.56	.05	- 2 11	47.22	-1981.6	-2.9	4	59.47
10294	51	1668	8.5 G5	11 26	23.457	331.04	-2.08	50 32	16.54	-1982.7	-3.1	2	57.74
10300	7	2452	8.8 K2	11 26	38.260	309.73	-0.19	7 4	44.87	-1983.1	-2.9	2	56.32
10301	6	2454	8.6 G5	11 26	38.832	309.49	-0.17	6 22	26.44	-1983.1	-2.8	2	57.79
10305	- 0	2444	7.2 K2	11 26	50.734	307.13	.02	- 0 34	24.36	-1983.3	-2.8	2	58.34
10310	17	2363	8.3 A2	11 27	21.938	313.22	-0.48	17 15	39.93	-1984.0	-2.8	2	56.68
10327	57	1327	7.5 K5	11 28	39.980	335.81	-2.74	57 24	38.84	-1985.6	-2.9	2	56.24
10334	40	2436	8.3 K2	11 28	50.891	322.72	-1.39	40 22	21.81	-1985.8	-2.8	2	56.79
10339	31	2274	8.0 K0	11 29	0.539	318.26	-0.96	31 14	55.59	-1986.0	-2.7	2	57.24
10340	25	2388	6.9 K2	11 29	14.135	315.51	-0.71	24 35	15.38	-1986.2	-2.7	2	56.16
10357	61	1247	8.7 G5	11 30	14.702	338.42	-3.20	60 54	29.41	-1987.4	-2.8	2	56.79
10358	34	2230	7.3 K2	11 30	22.826	319.09	-1.08	34 19	40.45	-1987.5	-2.6	2	56.66
10359	20	2616	8.4 G5	11 30	25.414	313.52	-0.55	19 48	38.28	-1987.6	-2.5	2	57.23
10368	4	2492	8.8 A3	11 30	50.468	308.63	-0.10	4 24	38.20	-1988.1	-2.4	2	57.71
10369	26	2231	8.9 K0	11 30	52.705	315.74	-0.77	26 25	22.70	-1988.1	-2.5	3	57.29
10371	8	2520	8.2 K0	11 30	57.286	309.78	-0.21	8 15	19.05	-1988.2	-2.4	2	58.25

Position 1950 + T = Position 1950 + T (1st term) + T² (2nd term) + T' (P. M.).

T in centuries from 1900.0, T' in centuries from epoch.

No.	B.D. No.	M + Sp.	R.A. 1950	Precession		Decl. 1950	Precession		No. Obs.	Epoch 1900+
				1st Term	2nd Term		1st Term	2nd Term		
10377	14 2404	7.7 K2	11 31 21.108	311.43	-.36	13 49 43.81	-1988.6	-2.4	2	56.76
10379	49 2066	7.9 G0	11 31 24.311	326.35	-1.89	48 50 41.52	-1988.7	-2.5	2	57.25
10394	44 2107	8.2 G5	11 32 19.090	322.82	-1.56	43 54 11.41	-1989.7	-2.4	2	57.34
10405	10 2310	8.1 F2	11 33 2.424	310.05	-.25	9 51 25.40	-1990.4	-2.2	2	57.23
10406	18 2510	7.0 K0	11 33 4.711	312.46	-.49	18 9 4.06	-1990.4	-2.2	2	56.73
10409	1 2586	8.6 K0	11 33 13.524	307.46	.01	0 29 11.07	-1990.6	-2.2	4	58.04
10417	75 450	8.2 K5	11 33 57.760	365.45	-7.84	75 23 45.28	-1991.3	-2.6	2	57.73
10421	57 1332	7.9 K5	11 34 14.996	330.64	-2.64	57 16 20.37	-1991.6	-2.3	2	58.28
10422	11 2379	8.2 F5	11 34 21.798	310.17	-.27	10 47 14.92	-1991.7	-2.1	2	57.80
10428	62 1190	7.2 M0	11 34 37.468	335.66	-3.36	62 28 23.03	-1992.0	-2.3	2	57.77
10429	0 2811	7.6 K0	11 34 43.102	307.25	.03	- 0 18 5.07	-1992.1	-2.0	2	58.34
10443	59 1394	8.7 G5	11 35 41.033	331.23	-2.88	59 22 34.43	-1993.0	-2.1	2	57.74
10446	20 2631	8.5 A3	11 35 51.568	312.54	-.55	20 22 39.01	-1993.2	-2.0	2	58.23
10450	30 2180	8.9 F5	11 35 59.095	315.41	-.88	30 2 1.39	-1993.3	-2.0	2	57.27
10453	24 2374	7.4 K0	11 36 7.533	313.39	-.65	23 36 26.36	-1993.4	-2.0	2	56.68
10455	39 2460	7.2 K5	11 36 10.830	318.73	-1.30	39 26 58.38	-1993.4	-2.0	2	57.77
10456	8 2533	8.8 K0	11 36 12.134	309.19	-.18	7 40 21.49	-1993.5	-1.9	4	58.03
10461	73 531	8.8 A0	11 36 44.017	351.14	-6.16	72 49 37.35	-1993.9	-2.2	2	57.34
10463	17 2382	8.0 K0	11 36 51.366	311.40	-.43	16 48 54.13	-1994.0	-1.9	2	56.17
10469	26 2243	8.0 K0	11 37 35.660	313.81	-.74	26 25 51.35	-1994.7	-1.8	2	56.79
10470	37 2205	8.2 K0	11 37 35.950	317.06	-1.15	36 45 9.16	-1994.7	-1.8	2	57.73
10491	45 1955	7.4 M0	11 39 0.825	319.32	-1.54	44 28 20.75	-1995.9	-1.7	2	56.78
10494	35 2272	8.2 K0	11 39 19.299	315.63	-1.05	34 35 7.26	-1996.1	-1.6	2	56.70
10500	19 2491	8.8 G0	11 40 2.553	311.34	-.49	19 3 3.93	-1996.7	-1.5	2	56.79
10506	56 1540	7.3 M0	11 40 29.011	324.37	-2.44	56 17 51.21	-1997.0	-1.6	2	56.66
10514	67 717	8.3 K5	11 40 52.782	333.73	-4.10	67 8 2.97	-1997.3	-1.6	2	56.69
10520	24 2386	7.1 K0	11 41 11.068	312.27	-.66	24 17 16.86	-1997.5	-1.5	2	56.17
10528	49 2079	7.3 K2	11 41 49.920	319.41	-1.80	48 47 37.92	-1998.0	-1.4	2	56.24
10529	22 2396	8.2 K0	11 41 52.451	311.52	-.57	21 39 19.70	-1998.0	-1.4	3	58.60
10532	54 1459	8.2 G5	11 41 59.510	321.73	-2.20	53 56 28.92	-1998.1	-1.4	2	57.72
10533	- 0 2479	8.3 M0	11 42 2.384	307.12	.07	- 1 6 25.99	-1998.1	-1.3	2	57.74
10545	17 2394	8.1 K2	11 42 28.743	310.53	-.43	17 26 15.88	-1998.4	-1.3	2	57.79
10546	16 2289	8.3 K2	11 42 29.326	310.18	-.38	15 36 47.64	-1998.4	-1.3	2	56.79
10551	20 2645	7.3 K0	11 42 45.541	311.02	-.52	20 10 2.65	-1998.6	-1.3	2	56.71
10553	7 2477	7.1 K0	11 42 49.926	308.61	-.15	7 18 28.57	-1998.7	-1.3	2	56.73
10562	40 2461	8.1 K2	11 43 20.867	315.37	-1.26	39 40 23.12	-1999.0	-1.2	2	57.26
10574	4 2526	7.6 K0	11 44 12.759	307.93	-.05	3 45 8.00	-1999.5	-1.1	2	57.26
10576	5 2539	8.2 K2	11 44 27.617	308.15	-.09	5 10 14.85	-1999.7	-1.1	4	58.25
10581	25 2418	7.8 K0	11 44 43.633	311.42	-.65	24 42 8.74	-1999.8	-1.1	2	56.73
10588	33 2156	7.6 K5	11 45 18.625	312.84	-.94	32 46 7.77	-2000.1	-1.0	2	56.73
10589	28 2046	7.6 G5	11 45 20.724	311.79	-.75	27 37 6.40	-2000.2	-1.0	2	56.26
10605	12 2381	8.2 K5	11 46 33.230	309.01	-.27	12 9 15.99	-2000.8	-.9	2	57.71
10609	30 2194	7.8 K0	11 46 59.471	311.66	-.82	29 46 36.11	-2001.0	-.9	2	56.72
10618	35 2285	8.5 K0	11 47 36.775	312.39	-1.02	35 4 4.51	-2001.3	-.8	2	56.17
10619	- 1 2576	7.8 G0	11 47 52.850	307.06	.11	- 2 8 24.95	-2001.5	-.8	2	56.80
10620	44 2132	7.6 G5	11 47 59.405	314.07	-1.44	43 56 14.13	-2001.5	-.8	2	56.73
10621	62 1199	7.8 K0	11 47 59.703	320.28	-2.94	61 38 0.36	-2001.5	-.8	2	57.27
10627	71 588	8.4 K0	11 48 22.122	327.45	-4.95	71 23 18.07	-2001.7	-.8	2	57.26
10629	23 2396	8.7 K0	11 48 29.229	310.18	-.59	23 1 16.54	-2001.7	-.7	2	57.80
10634	58 1340	7.9 G5	11 48 44.228	317.80	-2.48	57 55 8.81	-2001.8	-.7	2	58.28

Position 1950 + T = Position 1950 + T (1st term) + T² (2nd term) + T' (P. M.).

T in centuries from 1900.0, T' in centuries from epoch.

No.	B.D. No.	M + Sp.	R.A. 1950	Precession		Decl. 1950	Precession		No. Obs.	Epoch 1900+
				1st Term	2nd Term		1st Term	2nd Term		
10636	7 2489	7.6 K5	11 49 0.020	308.13	-.13	7 9 16.28	-2001.9	-.7	2	57.74
10638	68 664	9.0 A2	11 49 13.340	322.98	-4.04	68 8 3.84	-2002.0	-.7	2	57.79
10655	63 981	8.0 G5	11 50 20.540	318.47	-3.10	63 12 6.88	-2002.5	-.6	2	57.79
10656	14 2445	7.3 K0	11 50 21.832	308.70	-.30	13 41 58.55	-2002.5	-.5	2	56.87
10658	74 475	7.5 K0	11 50 39.915	325.77	-5.60	73 34 11.45	-2002.6	-.5	2	57.27
10661	- 3 3197	8.3 K5	11 50 53.914	306.99	.16	- 3 36 19.43	-2002.7	-.5	2	58.23
10668	11 2409	8.1 K0	11 51 19.444	308.35	-.23	11 23 50.95	-2002.8	-.4	2	57.26
10669	60 1360	8.2 K0	11 51 21.730	316.03	-2.66	59 57 30.84	-2002.8	-.4	2	57.74
10672	21 2373	8.6 K7	11 51 24.245	309.23	-.50	20 46 5.86	-2002.8	-.4	2	58.28
10676	5 2555	7.8 K5	11 51 30.694	307.77	-.07	5 9 25.44	-2002.9	-.4	2	58.26
10679	18 2539	7.5 F8	11 51 33.366	308.97	-.43	18 26 52.41	-2002.9	-.4	2	57.24
10684	4 2541	8.4 K0	11 51 54.905	307.68	-.04	4 18 54.60	-2003.0	-.4	2	57.74
10689	- 1 2587	8.6 K0	11 52 21.007	307.16	.13	- 2 5 47.90	-2003.1	-.3	2	57.20
10691	0 2858	8.2 F2	11 52 27.103	307.31	.08	- 0 16 40.94	-2003.2	-.3	2	58.34
10692	2 2493	8.2 K5	11 52 30.144	307.45	.03	1 35 43.35	-2003.2	-.3	2	57.84
10694	56 1554	8.3 K0	11 52 41.877	313.71	-2.26	56 17 20.66	-2003.2	-.3	2	58.26
10716	33 2172	8.1 K0	11 54 11.984	309.48	-.89	32 28 52.80	-2003.6	-.1	2	56.81
10717	6 2529	7.6 K0	11 54 14.481	307.66	-.07	5 37 24.22	-2003.6	-.1	2	56.26
10718	53 1516	8.6 K0	11 54 14.926	311.84	-1.99	53 22 16.44	-2003.6	-.1	2	57.26
10722	41 2252	6.8 K2	11 54 32.029	310.06	-1.22	40 34 1.72	-2003.7	-.1	2	56.72
10723	27 2071	8.7 K0	11 54 38.117	308.95	-.70	27 26 16.78	-2003.7	-.1	2	57.79
10726	45 1977	8.7 M0	11 54 41.959	310.43	-1.46	45 17 19.78	-2003.8	-.1	2	58.80
10727	23 2408	8.7 F8	11 54 45.021	308.64	-.57	23 15 17.06	-2003.7	-.1	2	58.28
10743	55 1500	8.2 K0	11 56 6.482	310.54	-2.08	54 45 51.18	-2004.0	.0	2	57.20
10745	38 2294	7.7 K2	11 56 10.828	309.08	-1.11	38 9 18.86	-2004.0	.1	2	57.79
10747	16 2323	8.5 K5	11 56 21.384	307.92	-.33	15 32 39.17	-2004.0	.1	2	57.82
10755	- 3 3217	8.4 K5	11 57 11.564	307.22	.18	- 3 40 35.39	-2004.1	.2	2	57.34
10761	52 1601	8.7 G5	11 57 24.923	309.26	-1.85	52 2 59.03	-2004.1	.2	2	57.32
10766	17 2422	7.9 G0	11 57 40.874	307.74	-.37	16 52 58.43	-2004.2	.2	2	56.80
10776	8 2559	8.2 K2	11 58 27.832	307.46	-.13	8 11 36.87	-2004.2	.3	2	56.80
10781	25 2448	8.3 K0	11 58 43.923	307.66	-.59	24 29 45.44	-2004.2	.3	4	58.55
10783	66 742	7.1 K2	11 58 50.083	308.88	-3.36	66 24 4.26	-2004.2	.3	2	56.18
10785	0 2878	8.3 G	11 58 54.206	307.32	.09	- 0 6 1.51	-2004.2	.3	2	57.33
10793	56 1558	8.7 K5	11 59 15.360	307.97	-2.14	56 6 19.98	-2004.2	.4	2	57.73
10795	1 2641	8.1 K2	11 59 47.590	307.33	.07	0 50 31.75	-2004.3	.4	2	58.23
10797	12 2416	8.6 K0	12 0 5.419	307.32	-.23	12 9 20.96	-2004.3	.4	4	58.06
10799	78 404	8.7 F8	12 0 18.495	306.48	-6.87	77 58 17.17	-2004.3	.5	2	57.81
10801	41 2265	7.7 F5	12 0 26.659	307.10	-1.22	41 20 36.71	-2004.3	.5	2	56.20
10802	47 1923	8.2 K0	12 0 38.672	306.92	-1.53	47 26 58.84	-2004.2	.5	2	56.73
10806	29 2251	8.4 K2	12 0 45.078	307.08	-.74	29 23 57.47	-2004.2	.5	2	57.34
10812	62 1214	7.7 K0	12 1 26.374	305.77	-2.64	61 40 54.28	-2004.2	.6	2	56.86
10818	45 1991	8.2 K0	12 1 40.300	306.36	-1.38	44 43 43.45	-2004.2	.6	2	58.28
10819	8 2566	8.6 F8	12 1 44.810	307.19	-.11	7 40 38.99	-2004.2	.6	2	57.86
10820	64 877	8.2 G5	12 1 44.958	305.20	-2.97	64 22 19.89	-2004.2	.6	2	58.35
10821	5 2580	7.3 M0	12 1 45.108	307.23	-.04	5 12 36.92	-2004.2	.6	2	58.74
10823	36 2235	7.3 K0	12 2 7.474	306.43	-.98	35 50 44.80	-2004.2	.6	2	58.26
10824	17 2430	7.3 F8	12 2 8.899	306.96	-.35	16 32 51.01	-2004.1	.7	2	58.82
10827	33 2189	8.2 K0	12 2 18.033	306.45	-.87	33 7 47.14	-2004.2	.7	2	58.34
10830	21 2388	8.6 K0	12 2 30.909	306.78	-.46	20 30 9.80	-2004.1	.7	2	56.73
10836	15 2408	8.5 K0	12 2 40.173	306.91	-.30	15 7 46.58	-2004.1	.7	2	57.27

Position 1950 + T = Position 1950 + T (1st term) + T² (2nd term) + T' (P. M.).

T in centuries from 1900.0, T' in centuries from epoch.

No.	B.D. No.	M + Sp.	R.A. 1950	Precession		Decl. 1950	Precession		No. Obs.	Epoch 1900+
				1st Term	2nd Term		1st Term	2nd Term		
10844	27 2092	8.9 F8	12 3 0.369	306.45	-.64	26 38 21.99	-2004.1	.7	2	58.25
10862	0 2894	7.6 K0	12 4 37.714	307.34	.12	- 0 21 6.03	-2003.8	.9	2	56.19
10863	69 645	8.1 G5	12 4 38.345	300.15	-3.67	69 21 14.81	-2003.8	.9	2	57.26
10867	20 2683	7.6 K2	12 4 49.876	306.32	-.42	19 37 53.55	-2003.8	.9	2	56.78
10868	5 2587	8.2 K0	12 4 59.282	307.08	-.02	4 47 29.67	-2003.8	.9	2	57.26
10870	14 2474	7.5 K0	12 5 2.668	306.60	-.26	13 47 42.42	-2003.7	.9	2	57.32
10871	42 2274	7.5 K5	12 5 3.381	304.64	-1.23	42 20 57.54	-2003.8	.9	2	58.25
10874	- 2 3466	8.5 F8	12 5 15.159	307.48	.18	- 2 51 7.69	-2003.7	.9	3	57.98
10875	72 558	8.5 A2	12 5 25.060	297.59	-4.20	72 2 17.85	-2003.7	.9	3	58.31
10878	6 2555	8.1 K0	12 5 29.121	306.97	-.06	6 18 53.23	-2003.7	1.0	2	57.82
10880	- 3 3239	7.6 K0	12 5 38.540	307.56	.21	- 4 0 32.16	-2003.7	1.0	2	57.82
10881	31 2332	7.9 K2	12 5 42.874	305.36	-.76	30 33 13.28	-2003.6	1.0	2	57.73
10885	38 2304	8.8 K2	12 6 17.527	304.45	-1.05	38 8 0.78	-2003.5	1.0	2	57.26
10886	49 2116	7.4 K0	12 6 22.468	302.98	-1.58	49 27 49.37	-2003.5	1.0	2	57.36
10909	17 2444	7.5 K2	12 7 34.896	306.00	-.33	16 42 18.72	-2003.2	1.2	2	57.73
10911	49 2118	8.1 K0	12 7 41.729	302.20	-1.52	48 48 32.70	-2003.1	1.2	2	57.26
10913	29 2263	7.6 K0	12 7 55.677	304.73	-.71	29 20 46.33	-2003.1	1.2	2	57.33
10914	45 2001	8.5 F8	12 8 12.925	302.46	-1.36	45 27 13.51	-2003.0	1.2	2	56.81
10917	15 2422	8.6 K2	12 8 27.313	306.03	-.27	14 42 9.42	-2002.9	1.2	2	56.82
10929	0 2907	7.6 K0	12 8 51.702	307.28	.11	0 28 18.53	-2002.8	1.3	2	56.81
10942	65 874	7.6 K2	12 9 38.576	295.41	-2.79	64 44 30.69	-2002.5	1.3	2	57.32
10944	87 104	8.0 K0	12 9 43.153	190.98	-7.29	87 12 36.76	-2002.5	1.0	2	57.25
10951	74 489	8.7 F5	12 10 1.892	286.93	-4.39	74 0 8.39	-2002.3	1.3	2	58.35
10955	22 2450	8.5 K0	12 10 23.632	304.94	-.45	21 29 27.86	-2002.2	1.4	2	56.73
10959	61 1283	8.4 A2	12 10 35.232	296.34	-2.34	60 41 16.16	-2002.1	1.4	2	57.81
10960	12 2435	7.8 K5	12 10 41.054	306.02	-.19	11 47 39.06	-2002.1	1.5	2	56.80
10961	67 735	8.5 F8	12 10 42.526	292.37	-3.10	67 21 5.17	-2002.1	1.4	2	58.28
10973	27 2105	7.4 G5	12 11 46.216	303.86	-.61	26 46 58.42	-2001.6	1.6	2	57.28
10979	40 2513	6.7 K5	12 12 6.412	301.49	-1.06	39 37 13.07	-2001.5	1.6	2	56.81
10983	34 2301	8.2 F5	12 12 27.884	302.51	-.83	33 32 2.54	-2001.3	1.6	2	57.34
10988	59 1431	8.3 K5	12 12 40.486	294.92	-2.17	59 13 32.46	-2001.2	1.6	2	57.31
10990	17 2454	7.0 K2	12 12 41.054	305.04	-.33	17 11 5.91	-2001.2	1.7	2	56.28
10994	53 1535	7.7 K0	12 12 58.519	297.30	-1.72	52 59 42.28	-2001.0	1.7	2	57.37
10998	7 2526	7.7 K0	12 13 42.214	306.42	-.04	6 30 3.23	-2000.7	1.8	2	57.28
10999	- 3 3257	8.3 K0	12 13 42.153	307.91	.24	- 4 10 25.66	-2000.7	1.8	2	58.28
11002	- 1 2639	8.0 K0	12 14 10.171	307.68	.20	- 2 27 41.50	-2000.4	1.8	2	58.71
11007	1 2676	8.2 K0	12 14 24.709	307.23	.12	0 37 47.35	-2000.3	1.8	2	58.34
11011	36 2257	9.0 K2	12 15 2.208	301.01	-.90	35 48 38.33	-1999.9	1.9	2	56.34
11023	3 2626	8.2 A2	12 15 45.674	306.78	.05	3 22 43.75	-1999.5	2.0	2	57.80
11027	8 2586	7.8 K0	12 15 54.672	305.97	-.08	8 20 33.18	-1999.4	2.0	2	56.81
11028	- 2 3494	8.4 K2	12 16 0.438	307.77	.21	- 2 44 40.64	-1999.4	2.0	2	57.82
11029	41 2287	8.1 G5	12 16 6.559	299.11	-1.09	41 11 37.92	-1999.3	2.0	2	58.27
11033	18 2587	8.7 F8	12 16 25.556	304.29	-.32	17 36 25.42	-1999.1	2.0	2	58.28
11039	66 754	7.9 K2	12 16 34.907	285.99	-2.69	65 38 40.86	-1999.0	1.9	2	57.73
11040	47 1949	8.7 K0	12 16 36.696	297.12	-1.32	46 31 29.24	-1999.0	2.0	2	56.81
11041	53 1537	8.0 K0	12 16 40.061	294.57	-1.65	52 42 58.67	-1999.0	2.0	2	57.79
11049	63 1009	7.9 A3	12 17 16.892	287.88	-2.37	62 38 12.06	-1998.6	2.0	2	58.80
11052	48 2017	8.6 A3	12 17 23.597	296.04	-1.39	48 4 49.09	-1998.5	2.1	2	58.77
11054	44 2180	7.4 G5	12 17 30.105	297.52	-1.20	43 53 10.19	-1998.4	2.1	2	57.25
11062	84 274	7.8 G5	12 18 18.479	211.50	-4.87	83 39 4.22	-1997.9	1.7	2	57.79

Position 1950 + T = Position 1950 + T (1st term) + T² (2nd term) + T' (P. M.).

T in centuries from 1900.0, T' in centuries from epoch.

No.	B.D. No.	M + Sp.	R.A. 1950	Precession		Decl. 1950	Precession		No. Obs.	Epoch 1900+
				1st Term	2nd Term		1st Term	2nd Term		
11064	80 383	8.3 K2	12 18 32.266	244.21	-4.97	80 17 35.15	-1997.7	1.9	2	57.88
11068	32 2234	8.8 F5	12 18 40.063	300.64	-.73	31 34 46.95	-1997.6	2.2	2	57.34
11069	4 2606	8.3 F2	12 18 40.900	306.57	.04	3 59 7.09	-1997.6	2.2	2	57.79
11070	35 2333	7.1 K0	12 18 41.405	299.72	-.84	34 57 51.98	-1997.6	2.2	2	57.73
11074	0 2932	8.2 K2	12 19 4.170	307.30	.14	0 7 9.58	-1997.3	2.3	2	56.86
11080	28 2109	8.6 G0	12 19 25.559	301.42	-.60	27 35 11.86	-1997.1	2.3	2	58.28
11082	33 2225	7.4 K0	12 19 31.778	299.84	-.78	33 22 3.71	-1997.0	2.3	2	56.33
11090	20 2713	7.9 K2	12 20 10.652	302.96	-.39	20 25 34.15	-1996.6	2.4	2	56.82
11092	40 2529	8.3 K0	12 20 21.867	297.53	-.99	39 33 9.71	-1996.3	2.3	2	57.26
11093	50 1915	8.9 M0	12 20 24.874	293.00	-1.47	50 19 23.64	-1996.3	2.3	2	58.26
11094	60 1396	8.0 K0	12 20 26.846	286.38	-2.10	60 22 54.29	-1996.3	2.3	2	57.73
11102	71 613	8.4 K0	12 20 44.098	273.04	-3.12	70 36 2.33	-1996.1	2.2	2	56.80
11114	58 1373	7.9 K2	12 21 35.681	287.16	-1.91	58 3 39.68	-1995.4	2.4	4	57.76
11118	5 2623	7.8 K0	12 21 59.285	306.29	.04	4 36 30.29	-1995.0	2.6	2	56.85
11124	26 2347	8.3 F8	12 22 31.859	300.98	-.53	25 50 14.50	-1994.6	2.6	2	57.81
11125	38 2331	8.7 K0	12 22 38.272	297.21	-.91	37 29 52.15	-1994.5	2.6	2	57.81
11131	10 2421	8.0 K5	12 22 58.760	304.96	-.10	10 1 43.37	-1994.2	2.6	2	57.78
11141	55 1531	7.7 K2	12 23 56.947	287.52	-1.67	54 51 55.10	-1993.3	2.6	2	57.34
11144	76 449	8.5 K5	12 24 8.032	251.01	-3.60	75 59 44.33	-1993.2	2.3	2	57.71
11145	14 2502	8.6 K0	12 24 21.351	303.71	-.21	14 19 14.48	-1992.9	2.8	4	58.56
11146	49 2139	8.2 G5	12 24 23.466	291.03	-1.36	48 56 17.73	-1992.9	2.7	2	57.80
11148	- 2 3520	8.5 K2	12 24 36.162	308.08	.24	- 3 0 38.10	-1992.7	2.8	2	58.72
11156	28 2116	7.3 K0	12 25 3.230	299.45	-.60	28 23 8.52	-1992.3	2.8	2	56.28
11159	5 2630	8.1 K0	12 25 6.186	306.13	.05	4 41 38.67	-1992.3	2.9	2	56.80
11160	6 2615	8.0 G5	12 25 6.691	305.68	.00	6 25 50.74	-1992.2	2.9	2	56.87
11162	9 2629	8.5 G5	12 25 21.201	304.94	-.07	9 10 29.07	-1992.0	2.9	2	57.26
11166	16 2377	8.2 F8	12 25 39.264	303.08	-.25	15 53 41.34	-1991.7	2.9	2	57.74
11171	79 393	8.5 K0	12 26 8.639	232.54	-3.56	78 30 11.74	-1991.2	2.4	2	57.81
11172	- 3 3302	8.4 F0	12 26 10.216	308.40	.27	- 4 0 50.39	-1991.2	3.0	2	57.73
11179	- 1 2674	7.6 M0	12 26 35.672	307.91	.23	- 2 9 11.71	-1990.8	3.0	2	56.78
11180	54 1530	9.0 A2	12 26 43.351	286.29	-1.56	53 32 13.98	-1990.6	2.9	2	56.86
11181	43 2227	8.3 K0	12 26 43.604	292.68	-1.09	43 17 29.00	-1990.6	2.9	2	57.82
11185	- 0 2583	8.7 K5	12 26 48.981	307.59	.19	- 0 57 24.18	-1990.6	3.0	2	58.72
11190	15 2469	7.5 K0	12 27 15.405	303.10	-.22	14 55 34.87	-1990.1	3.1	2	58.31
11196	63 1017	8.8 G	12 27 44.439	275.49	-2.14	63 7 25.50	-1989.6	2.8	2	57.88
11204	34 2319	8.4 F2	12 28 8.968	296.27	-.75	34 1 30.43	-1989.2	3.1	2	58.27
11209	32 2252	7.4 F5	12 28 32.276	297.08	-.68	31 41 57.93	-1988.7	3.1	2	57.80
11220	77 475	7.6 K0	12 28 59.285	234.52	-3.18	76 57 45.52	-1988.2	2.6	2	57.71
11229	18 2622	8.8 F5	12 29 31.943	301.77	-.29	17 56 21.03	-1987.6	3.2	2	57.82
11231	21 2428	8.6 F2	12 29 39.613	300.64	-.37	21 11 42.72	-1987.5	3.3	2	56.78
11248	8 2618	8.6 G5	12 31 2.418	304.93	-.01	7 33 24.33	-1985.9	3.4	2	57.73
11249	25 2522	7.2 M0	12 31 2.762	299.02	-.46	24 43 27.23	-1985.9	3.4	2	57.25
11251	5 2643	7.6 K0	12 31 4.034	305.91	.07	4 29 46.54	-1985.9	3.4	2	57.79
11252	28 2133	8.5 F2	12 31 8.269	297.56	-.57	28 21 25.45	-1985.8	3.4	2	57.87
11260	42 2322	8.8 K2	12 32 6.226	290.56	-1.00	41 56 45.50	-1984.6	3.4	2	57.73
11266	59 1448	8.4 A2	12 32 17.648	276.69	-1.74	58 30 47.05	-1984.4	3.3	2	57.28
11269	47 1970	7.7 K5	12 32 19.258	286.99	-1.20	47 16 58.54	-1984.4	3.4	2	57.31
11270	28 2134	8.8 G0	12 32 25.667	297.42	-.54	27 43 51.87	-1984.2	3.5	2	58.28
11284	17 2500	8.9 F5	12 33 15.899	301.38	-.25	17 6 19.32	-1983.2	3.6	2	58.74
11288	46 1797	7.3 K5	12 33 29.746	287.14	-1.14	46 3 20.60	-1982.9	3.5	2	57.25

Position 1950 + T = Position 1950 + T (1st term) + T² (2nd term) + T' (P. M.).

T in centuries from 1900.0, T' in centuries from epoch.

No.	B.D. No.	M + Sp.	R.A. 1950	Precession		Decl. 1950	Precession		No. Obs.	Epoch 1900+
				1st Term	2nd Term		1st Term	2nd Term		
11295	1 2724	8.8 G0	12 33 48.349	306.87	.15	1 19 11.00	-1982.5	3.7	2	57.28
11299	21 2434	7.6 F5	12 34 18.798	299.87	-.33	20 30 44.78	-1981.8	3.7	2	56.89
11300	15 2483	8.7 G0	12 34 31.238	302.14	-.18	14 31 36.87	-1981.5	3.7	2	57.86
11308	13 2561	8.2 G5	12 34 50.919	302.56	-.15	13 15 30.35	-1981.1	3.8	2	56.81
11312	19 2590	8.8 F8	12 35 7.853	300.34	-.29	18 54 15.63	-1980.8	3.8	2	56.74
11325	- 3 3329	6.8 K5	12 36 8.882	308.84	.30	- 4 5 55.41	-1979.4	4.0	4	57.49
11333	61 1307	7.6 K0	12 36 43.739	268.38	-1.81	61 18 11.93	-1978.6	3.5	2	56.27
11343	37 2306	8.6 A0	12 37 31.746	290.75	-.81	37 16 21.47	-1977.4	3.9	2	56.79
11345	43 2249	9.1 K0	12 37 36.393	286.94	-.99	43 2 54.92	-1977.3	3.8	2	57.33
11346	25 2544	8.9 K5	12 37 36.627	297.03	-.45	25 15 47.06	-1977.3	4.0	2	57.72
11349	34 2341	7.1 K2	12 37 42.678	292.32	-.71	34 26 25.36	-1977.2	3.9	4	57.77
11350	8 2626	8.2 G5	12 38 2.952	304.23	.00	7 58 26.71	-1976.7	4.1	4	59.27
11352	75 479	8.3 K2	12 38 3.995	226.60	-2.34	74 41 42.44	-1976.7	3.2	2	57.36
11376	- 4 3331	8.2 G5	12 39 24.854	309.31	.33	- 4 56 47.34	-1974.7	4.3	2	57.32
11380	9 2661	8.8 K0	12 39 28.785	303.59	-.03	9 16 38.23	-1974.6	4.2	2	57.73
11381	33 2261	8.8 G0	12 39 38.446	292.31	-.66	33 8 14.17	-1974.4	4.1	2	57.80
11383	0 2972	8.4 F5	12 39 43.797	307.34	.20	- 0 2 3.72	-1974.2	4.3	2	56.28
11390	57 1388	7.4 K2	12 40 16.354	270.98	-1.53	57 16 22.62	-1973.4	3.9	2	56.72
11399	40 2566	9.1 F2	12 41 0.681	287.43	-.86	39 54 45.66	-1972.3	4.1	2	57.34
11405	11 2487	8.4 F2	12 41 30.121	302.56	-.07	11 11 41.94	-1971.5	4.4	2	57.26
11412	1 2746	8.2 M0	12 41 51.833	306.98	.19	0 48 36.40	-1970.9	4.5	2	56.87
11417	18 2655	8.4 F8	12 42 12.940	299.39	-.24	17 58 25.56	-1970.3	4.4	2	56.89
11423	28 2148	7.6 K0	12 42 36.212	294.38	-.49	27 40 1.37	-1969.7	4.4	2	57.27
11440	- 0 2608	8.1 K0	12 43 58.525	307.57	.23	- 0 32 55.59	-1967.4	4.7	2	56.79
11441	17 2532	8.7 A2	12 43 59.145	299.63	-.20	16 47 40.81	-1967.5	4.6	2	57.36
11444	37 2324	9.0 F5	12 44 15.814	287.92	-.75	37 7 16.93	-1967.0	4.4	2	57.70
11445	48 2055	7.8 M0	12 44 18.121	279.17	-1.09	47 38 43.09	-1966.9	4.3	3	58.37
11446	43 2258	7.7 F8	12 44 27.088	282.95	-.94	43 25 30.28	-1966.7	4.4	2	57.83
11450	33 2269	7.7 K5	12 44 42.426	290.61	-.62	32 50 26.26	-1966.2	4.5	2	58.39
11451	7 2575	8.5 K0	12 44 42.780	304.02	.03	7 16 50.48	-1966.2	4.7	2	58.28
11452	- 3 3360	8.1 K2	12 44 59.369	309.34	.33	- 4 24 30.06	-1965.8	4.8	2	58.72
11453	53 1568	7.6 K0	12 45 4.078	272.51	-1.28	53 8 3.33	-1965.6	4.3	2	57.31
11460	24 2495	7.2 G5	12 45 31.801	295.39	-.39	24 22 4.21	-1964.8	4.7	2	56.81
11464	21 2458	8.3 K2	12 45 54.831	297.17	-.30	20 54 34.79	-1964.2	4.7	2	57.34
11472	61 1319	7.6 K2	12 46 19.111	258.76	-1.58	61 5 33.68	-1963.5	4.2	2	58.73
11475	16 2427	8.7 F0	12 46 21.511	299.79	-.17	15 41 12.23	-1963.4	4.8	2	56.82
11483	34 2358	8.5 K0	12 46 37.547	289.08	-.65	34 3 10.02	-1962.9	4.7	2	57.83
11484	55 1555	8.4 A3	12 46 41.033	269.40	-1.32	54 31 13.19	-1962.8	4.4	2	57.73
11486	36 2309	8.1 K0	12 46 52.415	287.90	-.69	35 35 35.03	-1962.5	4.7	2	57.27
11491	39 2568	8.0 K0	12 47 19.740	285.42	-.77	38 38 24.19	-1961.7	4.7	4	57.83
11494	22 2517	8.6 A2	12 47 21.873	296.30	-.32	21 54 45.91	-1961.6	4.8	2	57.38
11504	46 1824	8.0 K0	12 48 18.617	278.03	-1.01	46 20 20.40	-1959.9	4.7	2	56.28
11505	59 1468	8.8 K7	12 48 18.727	260.18	-1.47	59 19 46.79	-1959.9	4.4	2	57.79
11511	15 2512	8.8 F8	12 48 54.951	299.67	-.15	15 7 51.32	-1958.8	5.0	2	57.36
11512	50 1954	8.0 K2	12 49 1.635	274.07	-1.11	49 32 26.59	-1958.6	4.7	2	56.73
11515	58 1397	7.4 M0	12 49 9.041	261.81	-1.41	58 0 11.41	-1958.3	4.5	2	56.89
11520	26 2399	7.5 K5	12 49 27.346	293.41	-.42	25 56 46.50	-1957.8	5.0	2	57.41
11523	- 0 2622	7.8 K5	12 49 38.245	307.66	.25	- 0 39 27.07	-1957.4	5.2	2	58.25
11529	51 1792	8.1 F5	12 50 5.284	272.12	-1.13	50 33 11.66	-1956.6	4.7	2	56.82
11530	34 2365	8.9 K0	12 50 6.850	287.70	-.63	34 6 27.04	-1956.5	5.0	2	58.27

Position 1950 + T = Position 1950 + T (1st term) + T² (2nd term) + T' (P. M.).

T in centuries from 1900.0, T' in centuries from epoch.

No.	B.D. No.	M + Sp.	R.A. 1950	Precession		Decl. 1950	Precession		No. Obs.	Epoch 1900+
				1st Term	2nd Term		1st Term	2nd Term		
11539	47 1998	7.2 M0	12 51 2.294	275.76	-1.00	46 55 39.09	-1954.8	4.9	2	56.88
11540	60 1425	7.6 K2	12 51 3.935	255.72	-1.45	60 13 23.96	-1954.7	4.5	2	57.81
11541	5 2690	7.6 K0	12 51 7.572	305.00	.12	4 30 34.12	-1954.6	5.3	2	57.77
11548	25 2571	8.0 K2	12 51 28.792	293.51	-.38	24 54 25.74	-1953.9	5.2	2	57.39
11549	63 1038	8.4 F8	12 51 28.941	249.24	-1.52	62 52 13.32	-1953.9	4.5	4	58.28
11550	27 2189	7.0 K2	12 51 29.687	292.13	-.43	27 3 3.70	-1953.8	5.2	2	56.82
11554	37 2334	8.5 G5	12 51 44.874	284.57	-.70	37 15 30.03	-1953.4	5.1	2	57.82
11561	40 2590	8.4 K5	12 52 30.263	281.87	-.77	39 59 35.24	-1951.9	5.1	2	57.36
11562	2 2599	8.8 K0	12 52 35.901	306.39	.20	1 45 21.08	-1951.6	5.5	2	58.74
11570	33 2284	8.4 G5	12 52 49.595	287.40	-.58	33 8 12.23	-1951.2	5.2	2	58.69
11572	13 2607	8.1 K0	12 52 59.433	300.28	-.08	12 58 22.01	-1950.9	5.4	2	56.79
11575	64 923	8.6 A5	12 53 3.772	243.14	-1.52	64 28 2.71	-1950.8	4.5	2	57.79
11585	53 1577	8.4 K0	12 53 29.927	266.29	-1.17	53 0 47.83	-1949.9	4.9	2	56.81
11588	24 2508	9.0 M0	12 53 36.982	293.64	-.34	23 50 40.71	-1949.7	5.4	2	57.73
11590	30 2345	9.1 A5	12 53 50.255	289.44	-.49	29 53 52.90	-1949.2	5.3	2	57.28
11591	79 407	7.9 K0	12 53 59.948	150.23	.44	78 46 13.47	-1948.9	3.0	2	57.82
11596	11 2515	8.4 A0	12 54 15.109	301.36	-.02	10 46 46.44	-1948.4	5.6	2	57.36
11597	51 1797	8.9 K7	12 54 17.657	268.11	-1.10	51 21 0.90	-1948.3	5.0	2	58.34
11608	26 2409	8.7 K2	12 55 19.249	291.61	-.39	26 12 22.31	-1946.2	5.5	2	57.39
11612	18 2681	8.3 K5	12 55 37.882	296.87	-.19	18 2 17.70	-1945.5	5.6	2	56.34
11613	49 2175	9.0 K0	12 55 52.219	270.87	-.99	48 30 14.78	-1945.0	5.2	2	58.74
11614	- 0 2637	8.5 A2	12 55 53.620	307.77	.26	- 0 46 55.68	-1944.9	5.8	2	57.70
11624	59 1475	8.3 F5	12 56 19.931	253.97	-1.29	58 38 36.53	-1944.0	4.9	2	56.82
11628	62 1268	7.1 K0	12 56 28.080	246.07	-1.38	61 59 11.69	-1943.7	4.8	2	56.28
11633	- 4 3390	8.0 K2	12 56 48.560	309.99	.37	- 4 38 13.80	-1943.0	6.0	2	57.84
11645	3 2719	8.6 F5	12 57 35.691	305.79	.18	2 39 12.76	-1941.3	6.0	2	57.26
11650	4 2683	7.4 K5	12 57 57.629	305.06	.15	3 52 22.58	-1940.5	6.0	2	56.81
11653	55 1571	8.9 G	12 58 7.285	260.32	-1.15	54 30 25.27	-1940.1	5.2	2	56.82
11655	88 76	7.5 K2	12 58 21.980	-618.70	200.26	87 55 5.74	-1939.6	-10.9	2	57.87
11657	39 2589	8.5 K0	12 58 29.341	279.82	-.70	39 11 44.23	-1939.3	5.6	2	56.72
11661	46 1836	7.9 K2	12 58 39.387	272.03	-.90	46 13 4.21	-1939.0	5.4	2	56.81
11665	26 2416	8.8 K0	12 58 54.643	290.85	-.37	25 52 11.03	-1938.4	5.8	2	57.80
11666	2 2614	7.6 M0	12 58 57.152	306.27	.21	1 47 20.77	-1938.3	6.1	2	56.80
11668	22 2537	7.0 K5	12 59 8.264	293.87	-.26	21 32 16.00	-1937.9	5.9	2	56.25
11672	19 2628	8.7 K2	12 59 34.389	295.58	-.20	18 53 40.10	-1936.9	6.0	2	56.79
11683	46 1839	7.4 M0	13 0 28.700	271.67	-.87	45 39 11.01	-1934.9	5.6	2	56.72
11687	51 1802	8.1 K0	13 0 42.335	263.65	-1.02	51 18 27.25	-1934.4	5.4	2	56.87
11699	31 2445	7.4 G5	13 1 26.076	285.83	-.49	31 16 10.78	-1932.7	5.9	2	56.78
11713	10 2509	8.0 K0	13 2 13.957	301.19	.03	9 43 2.71	-1930.8	6.3	2	57.81
11714	66 787	8.9 G	13 2 15.554	226.26	-1.26	66 8 34.82	-1930.8	4.8	4	58.32
11717	54 1566	7.4 K2	13 2 31.406	257.55	-1.07	54 7 30.22	-1930.1	5.5	2	57.80
11719	36 2336	9.2 F2	13 2 45.794	280.60	-.60	36 29 6.73	-1929.6	5.9	3	57.94
11731	27 2212	7.6 K0	13 3 16.498	288.89	-.37	26 51 10.81	-1928.3	6.2	2	57.86
11742	34 2389	8.3 K0	13 4 15.380	282.12	-.55	34 17 10.65	-1926.0	6.1	2	57.81
11748	29 2369	8.6 K2	13 4 46.505	286.69	-.42	28 58 46.88	-1924.7	6.2	2	57.32
11749	60 1445	8.1 G5	13 4 51.023	241.60	-1.16	60 25 18.56	-1924.6	5.3	2	58.25
11753	2 2626	7.8 F5	13 5 3.282	306.19	.23	1 44 29.83	-1924.1	6.7	2	57.89
11760	43 2300	8.2 K2	13 5 36.166	272.59	-.74	42 38 27.68	-1922.7	6.0	2	57.33
11762	72 600	7.5 K0	13 5 42.001	193.35	-.82	71 39 38.47	-1922.5	4.4	2	57.36
11766	63 1053	7.6 K0	13 6 11.075	232.78	-1.16	62 57 25.41	-1921.3	5.2	2	57.87

Position 1950 + T = Position 1950 + T (1st term) + T² (2nd term) + T' (P. M.).

T in centuries from 1900.0, T' in centuries from epoch.

No.	B.D. No.		M + Sp.	R.A. 1950			Precession		Decl. 1950			Precession		No. Obs.	Epoch 1900+		
							1st Term	2nd Term				1st Term	2nd Term				
11768	23	2541	8.7 K0	13	6	18.226	290.96	-.28	23	14	16.52	-1921.0	6.5	2	57.33		
11774	19	2642	7.2 K2	13	6	38.561	294.22	-.18	18	53	30.59	-1920.1	6.6	2	57.35		
11775	31	2456	8.3 F5	13	6	44.096	284.72	-.44	30	30	35.59	-1919.9	6.4	2	56.26		
11776	50	1982	7.8 K2	13	6	50.329	262.00	-.91	49	43	7.40	-1919.6	5.9	2	56.81		
11780	6	2700	8.2 F0	13	7	5.583	303.11	.12	6	14	45.69	-1919.0	6.8	2	57.34		
11784	17	2596	8.4 K0	13	7	20.711	295.68	-.12	16	44	37.60	-1918.3	6.7	2	58.28		
11790	16	2470	8.8 G5	13	7	43.889	296.46	-.09	15	36	15.60	-1917.4	6.7	2	58.72		
11795	0	3030	8.6 K2	13	8	9.318	307.43	.28	-	0	9	10.87	-1916.3	7.0	2	57.36	
11806	27	2224	8.4 K0	13	9	4.588	287.41	-.34	26	39	8.15	-1914.0	6.6	2	57.34		
11808	20	2806	8.2 G5	13	9	8.675	292.81	-.19	20	4	51.90	-1913.7	6.7	2	57.36		
11809	41	2364	7.1 K0	13	9	12.534	272.71	-.68	41	3	28.56	-1913.6	6.3	2	57.81		
11810	35	2419	8.1 F2	13	9	14.332	279.74	-.53	34	45	9.29	-1913.5	6.5	2	57.87		
11811	47	2027	8.2 K5	13	9	17.900	264.33	-.82	47	13	3.62	-1913.3	6.1	2	58.35		
11812	13	2643	8.2 K0	13	9	19.566	298.14	-.03	12	59	44.89	-1913.3	6.9	2	57.36		
11815	11	2543	8.1 F5	13	9	35.373	299.21	.01	11	29	8.52	-1912.6	6.9	4	58.86		
11816	56	1645	9.0 K0	13	9	36.372	247.65	-1.01	56	11	31.65	-1912.5	5.8	2	57.33		
11823	9	2727	8.6 G5	13	10	22.869	301.18	.07	8	39	30.14	-1910.5	7.0	2	57.27		
11848	10	2523	8.3 K0	13	11	33.454	300.06	.04	10	2	17.84	-1907.4	7.1	2	56.72		
11852	45	2096	8.7 F5	13	12	12.569	265.27	-.76	45	26	41.15	-1905.6	6.4	2	56.33		
11854	23	2551	8.8 K2	13	12	37.037	289.38	-.25	23	18	52.90	-1904.5	7.0	2	56.88		
11855	61	1344	8.9 G5	13	12	37.957	232.17	-1.01	61	0	44.83	-1904.4	5.7	2	56.89		
11868	51	1824	8.5 G5	13	13	23.275	255.21	-.86	51	5	47.11	-1902.4	6.3	2	57.26		
11877	18	2708	7.4 G0	13	14	2.723	293.90	-.12	17	33	49.41	-1900.6	7.2	2	56.78		
11878	54	1584	8.8 K5	13	14	3.677	249.98	-.90	53	30	4.58	-1900.5	6.2	2	56.87		
11893	29	2386	8.4 K2	13	14	35.076	283.35	-.37	29	18	28.01	-1899.1	7.0	2	56.81		
11922	3	2755	8.3 K2	13	16	21.466	305.18	.23	2	48	22.08	-1894.0	7.7	2	56.87		
11926	34	2411	8.5 G5	13	16	32.884	278.11	-.46	33	42	3.77	-1893.5	7.0	2	57.25		
11934	37	2396	7.5 G5	13	17	30.302	274.36	-.51	36	38	8.28	-1890.7	7.0	2	56.90		
11940	9	2744	7.6 K2	13	18	2.503	300.65	.10	8	30	25.24	-1889.2	7.7	2	57.31		
11947	65	927	8.2 F5	13	18	37.145	209.31	-.79	65	22	3.58	-1887.5	5.5	2	56.82		
11952	24	2570	8.7 K0	13	18	45.263	287.51	-.24	23	45	32.55	-1887.1	7.5	2	57.27		
11958	3	2761	7.9 K5	13	19	4.364	304.87	.22	3	6	56.57	-1886.1	7.9	2	57.34		
11962	31	2474	8.7 G0	13	19	18.749	280.33	-.38	30	46	59.56	-1885.4	7.3	2	57.26		
11972	0	3049	8.0 K0	13	19	54.981	307.58	.31	-	0	19	2.73	-1883.6	8.1	2	56.90	
11978	45	2106	8.3 A0	13	20	34.530	261.35	-.67	44	58	33.60	-1881.7	7.0	2	56.87		
11982	52	1698	7.5 M0	13	20	53.246	248.39	-.79	51	54	50.55	-1880.7	6.7	2	56.80		
11986	46	1865	7.5 K0	13	21	11.247	258.68	-.68	46	23	0.57	-1879.8	6.9	2	57.40		
11987	51	1837	9.0 F8	13	21	12.948	250.74	-.76	50	40	15.20	-1879.7	6.7	3	57.35		
11990	19	2667	7.5 G0	13	21	19.105	291.02	-.13	19	21	6.94	-1879.4	7.8	2	58.25		
11991	-	4	3470	8.3 K0	13	21	20.466	311.30	.43	-	4	53	17.06	-1879.3	8.3	2	57.34
11992	-	1	2815	8.3 G5	13	21	40.101	308.83	.35	-	1	50	48.64	-1878.3	8.3	2	57.82
11994	35	2445	8.2 G5	13	21	54.550	274.66	-.46	34	56	38.63	-1877.6	7.4	2	57.42		
11999	5	2742	7.6 K5	13	22	10.700	303.50	.20	4	39	43.46	-1876.8	8.2	2	57.80		
12005	55	1602	8.3 A5	13	22	52.324	239.42	-.80	55	9	26.81	-1874.6	6.6	4	58.07		
12006	11	2563	8.3 K0	13	22	54.199	298.12	.05	11	0	56.94	-1874.6	8.1	2	57.77		
12007	66	807	8.2 K0	13	23	0.676	198.83	-.61	66	25	29.53	-1874.2	5.5	2	58.34		
12008	17	2626	8.5 G5	13	23	1.534	293.02	-.07	16	48	42.02	-1874.2	8.0	2	57.74		
12009	26	2460	8.4 F2	13	23	2.132	284.42	-.26	25	48	30.07	-1874.1	7.7	2	56.79		
12013	-	2	3684	7.3 K0	13	23	33.431	310.16	.39	-	3	24	5.13	-1872.5	8.5	3	57.36
12028	84	310	8.9 K5	13	24	41.841	-131.41	23.89	83	43	21.89	-1869.0	-3.1	3	57.99		

Position 1950 + T = Position 1950 + T (1st term) + T² (2nd term) + T' (P. M.).

T in centuries from 1900.0, T' in centuries from epoch.

No.	B. D. No.	M + Sp.	R.A. 1950	Precession		Decl. 1950	Precession		No. Obs.	Epoch 1900+
				1st Term	2nd Term		1st Term	2nd Term		
12044	27 2255	8.2 F5	13 25 34.099	282.39	-.28	27 6 0.94	-1866.2	7.9	2	57.33
12056	- 3 3476	8.3 A3	13 26 6.595	310.93	.42	- 4 12 26.22	-1864.4	8.7	2	58.34
12061	34 2426	8.2 K0	13 26 18.684	274.27	-.41	33 55 32.87	-1863.8	7.7	2	57.32
12066	20 2837	8.3 F5	13 26 30.025	289.36	-.13	20 2 54.59	-1863.2	8.2	2	57.36
12075	2 2685	8.6 G0	13 27 0.309	305.63	.27	1 57 58.46	-1861.6	8.7	4	58.55
12077	53 1624	7.4 K0	13 27 17.842	240.35	-.72	53 26 6.98	-1860.6	6.9	2	58.73
12079	67 786	8.2 G5	13 27 29.005	188.33	-.41	67 17 59.62	-1860.0	5.5	2	57.90
12083	50 2006	8.3 K0	13 27 34.265	247.01	-.69	50 26 38.34	-1859.7	7.1	2	57.82
12091	61 1359	7.9 G5	13 28 9.743	218.30	-.69	60 36 40.44	-1857.8	6.4	3	58.66
12097	75 507	8.0 K0	13 28 40.676	117.32	1.59	75 8 17.60	-1856.1	3.6	2	57.79
12098	22 2589	8.8 K0	13 28 46.769	287.35	-.15	21 35 25.54	-1855.8	8.3	2	57.40
12104	17 2641	8.7 F5	13 29 24.731	291.41	-.06	17 23 17.43	-1853.7	8.5	2	58.77
12107	27 2264	7.9 K5	13 29 28.839	281.57	-.25	26 51 28.38	-1853.4	8.2	2	56.87
12109	10 2556	8.4 K2	13 29 42.021	297.97	.09	10 24 15.91	-1852.7	8.7	2	57.79
12114	40 2663	8.3 F0	13 30 18.715	264.97	-.49	39 32 52.62	-1850.6	7.8	4	58.51
12119	65 943	8.5 G5	13 30 39.658	198.26	-.50	64 43 46.01	-1849.5	6.0	2	56.91
12120	57 1446	8.8 K0	13 30 53.238	228.63	-.68	56 44 33.36	-1848.7	6.8	2	57.33
12121	1 2826	8.2 K5	13 30 56.362	306.20	.30	1 14 40.83	-1848.5	9.0	2	57.81
12128	3 2792	8.8 K5	13 31 17.545	304.26	.25	3 23 16.94	-1847.3	9.0	2	57.33
12129	17 2645	8.2 K0	13 31 23.864	291.93	-.04	16 31 45.26	-1847.0	8.7	3	57.31
12137	19 2688	8.2 F0	13 31 47.242	289.72	-.08	18 40 16.81	-1845.7	8.6	2	57.36
12140	14 2636	7.2 K0	13 31 53.736	293.97	.01	14 22 0.67	-1845.3	8.8	4	59.28
12141	73 595	8.4 K0	13 31 57.049	133.30	.97	73 18 31.35	-1845.1	4.2	2	57.32
12145	47 2069	8.6 K0	13 32 19.009	251.82	-.59	46 39 47.60	-1843.8	7.6	2	57.40
12161	35 2466	8.0 K0	13 33 13.473	269.99	-.40	35 13 58.67	-1840.7	8.2	2	57.73
12165	0 3079	8.7 K5	13 33 25.530	307.63	.34	- 0 19 20.97	-1840.0	9.3	5	58.93
12168	24 2604	7.9 G5	13 33 44.366	283.46	-.18	24 11 20.71	-1838.9	8.6	2	56.91
12170	20 2848	8.4 K5	13 33 56.547	287.69	-.11	20 14 43.70	-1838.2	8.7	2	57.36
12186	60 1476	7.9 K2	13 35 2.465	214.24	-.58	59 57 24.05	-1834.4	6.7	2	56.90
12191	34 2435	7.3 K2	13 35 22.949	270.90	-.36	33 59 31.43	-1833.1	8.4	2	57.34
12194	42 2424	7.7 M0	13 35 29.781	257.85	-.50	42 27 18.10	-1832.8	8.0	2	56.87
12197	44 2289	9.0 G5	13 35 43.795	255.67	-.52	43 37 14.70	-1831.9	7.9	2	57.34
12202	51 1858	7.8 G5	13 36 4.048	239.66	-.60	51 12 49.52	-1830.7	7.5	2	56.91
12203	10 2573	8.1 K0	13 36 14.448	297.49	.11	10 14 3.78	-1830.1	9.2	2	56.88
12204	- 1 2847	8.0 K5	13 36 19.543	309.50	.39	- 2 16 39.10	-1829.8	9.6	2	58.71
12205	55 1624	8.6 K5	13 36 23.866	228.48	-.61	55 19 2.69	-1829.6	7.2	2	57.78
12208	39 2665	8.7 K0	13 36 31.858	263.66	-.43	38 38 0.00	-1829.1	8.2	2	57.36
12218	58 1459	8.7 K0	13 37 11.829	218.37	-.57	58 16 50.33	-1826.7	6.9	2	58.25
12221	78 464	8.0 F5	13 37 33.163	44.50	5.00	78 8 39.02	-1825.4	1.7	2	57.26
12222	26 2481	7.8 G5	13 37 40.402	280.17	-.21	26 10 45.38	-1825.0	8.8	2	56.41
12223	- 4 3533	8.0 F5	13 37 49.006	312.16	.46	- 4 59 34.42	-1824.5	9.8	2	57.81
12224	29 2446	8.7 K0	13 37 57.904	276.27	-.26	29 16 49.93	-1823.9	8.7	2	57.36
12227	62 1308	8.9 F0	13 38 12.603	201.72	-.44	62 16 3.72	-1823.0	6.5	2	57.91
12229	45 2124	8.0 K0	13 38 14.785	251.32	-.52	45 14 24.06	-1822.9	8.0	2	56.87
12232	40 2677	8.8 K0	13 38 21.052	260.27	-.45	40 14 33.47	-1822.5	8.3	2	57.80
12235	9 2796	8.6 A2	13 38 28.093	298.18	.13	9 20 3.53	-1822.1	9.4	2	57.28
12237	16 2539	8.2 K0	13 38 44.617	291.13	-.01	16 10 52.38	-1821.1	9.2	2	57.88
12239	70 753	8.5 G5	13 39 6.575	152.53	.40	70 6 43.58	-1819.7	5.0	2	57.88
12247	64 961	8.4 F5	13 39 31.130	191.47	-.32	64 7 5.44	-1818.3	6.3	3	58.67
12248	2 2710	8.4 K0	13 39 36.089	304.93	.28	2 26 28.49	-1817.9	9.7	2	56.87

Position 1950 + T = Position 1950 + T (1st term) + T² (2nd term) + T' (P. M.).

T in centuries from 1900. 0, T' in centuries from epoch.

No.	B.D. No.	M + Sp.	R.A. 1950	Precession		Decl. 1950	Precession		No. Obs.	Epoch 1900+
				1st Term	2nd Term		1st Term	2nd Term		
12257	15 2609	7.7 K2	13 40 6.728	291.76	.01	15 23 56.03	-1816.0	9.4	2	56.81
12263	- 0 2727	7.8 K0	13 40 23.482	308.27	.36	- 0 57 24.65	-1815.0	9.9	2	57.87
12275	36 2406	8.1 G5	13 41 25.513	265.81	-.36	35 57 57.66	-1811.2	8.7	4	58.29
12281	80 421	7.0 K5	13 41 54.954	-34.51	10.23	80 27 17.95	-1809.3	-.7	2	57.34
12287	56 1682	7.5 K2	13 42 15.052	222.22	-.52	55 53 7.98	-1808.1	7.4	2	57.80
12289	60 1486	7.5 K0	13 42 27.889	208.83	-.45	59 36 31.01	-1807.3	7.0	2	57.82
12299	41 2422	8.7 K0	13 43 6.560	257.40	-.43	40 40 18.40	-1804.8	8.5	2	56.88
12301	16 2551	8.1 K0	13 43 14.084	290.42	0.00	16 12 32.21	-1804.3	9.6	2	57.87
12302	35 2480	7.3 G5	13 43 20.754	266.71	-.33	34 53 51.04	-1803.9	8.9	2	57.86
12304	43 2350	8.7 K0	13 43 31.996	252.49	-.45	43 13 49.84	-1803.2	8.4	2	57.35
12310	1 2847	8.8 K0	13 43 54.186	306.62	.33	0 41 43.33	-1801.8	10.2	2	57.80
12319	52 1739	8.6 F8	13 44 30.893	231.34	-.51	52 14 41.90	-1799.4	7.8	2	58.86
12321	11 2601	8.8 K5	13 44 53.832	295.65	.11	11 11 11.86	-1798.0	9.9	2	57.79
12323	48 2152	7.8 M0	13 45 10.240	241.64	-.49	47 58 41.57	-1796.9	8.2	2	57.87
12326	4 2783	8.5 G5	13 45 23.257	303.08	.26	4 5 44.37	-1796.1	10.2	2	58.72
12343	2 2727	8.7 K0	13 46 1.622	305.37	.31	1 52 55.75	-1793.6	10.3	2	58.42
12344	24 2641	8.0 K0	13 46 3.981	281.14	-.13	23 41 51.53	-1793.4	9.5	2	57.79
12360	63 1094	7.9 K2	13 47 10.693	188.62	-.22	63 5 46.33	-1789.1	6.6	2	58.36
12364	74 554	8.9 G5	13 47 26.298	94.48	2.21	74 9 56.67	-1788.0	3.5	2	56.82
12372	3 2819	8.7 K5	13 47 53.987	304.40	.29	2 45 36.74	-1786.2	10.4	2	56.82
12377	55 1637	8.6 F8	13 48 11.211	220.18	-.45	55 7 0.26	-1785.1	7.7	2	57.34
12378	85 234	7.7 G8	13 48 17.830	-356.01	48.60	84 45 42.48	-1784.6	-11.4	2	57.34
12383	36 2414	8.5 K0	13 48 40.008	262.74	-.32	36 9 37.20	-1783.1	9.1	2	57.38
12384	46 1906	8.6 G5	13 48 50.712	244.56	-.44	45 46 11.75	-1782.4	8.5	2	58.26
12397	6 2802	8.6 A3	13 49 38.967	300.59	.22	6 14 51.95	-1779.2	10.5	2	57.80
12403	51 1874	7.9 F2	13 50 2.257	230.03	-.45	51 23 41.55	-1777.6	8.1	2	57.88
12404	1 2857	7.8 K0	13 50 5.083	306.17	.33	1 4 16.13	-1777.5	10.7	2	57.34
12405	17 2676	6.5 K5	13 50 8.384	288.47	.01	16 58 32.02	-1777.2	10.1	2	58.31
12413	9 2820	8.7 K5	13 50 57.421	297.06	.16	9 22 24.23	-1773.9	10.5	2	57.34
12422	58 1474	8.6 K0	13 51 32.523	206.69	-.35	58 9 33.32	-1771.5	7.4	2	57.89
12428	64 970	8.0 G5	13 52 4.375	175.78	-.01	64 29 26.39	-1769.3	6.4	3	58.59
12435	16 2577	8.0 K0	13 52 19.248	289.86	.04	15 31 22.46	-1768.3	10.3	2	58.34
12437	8 2786	8.2 K5	13 52 19.939	298.58	.19	7 55 15.93	-1768.3	10.6	2	57.80
12442	- 3 3549	8.4 K5	13 52 48.973	311.88	.46	- 4 7 40.08	-1766.3	11.1	5	58.54
12446	20 2897	8.2 K2	13 52 59.303	284.77	-.03	19 37 54.49	-1765.6	10.2	2	57.26
12450	50 2034	8.9 G0	13 53 27.443	230.90	-.41	50 17 8.44	-1763.6	8.4	4	58.79
12452	61 1387	8.6 G5	13 53 29.022	193.77	-.22	60 47 23.82	-1763.5	7.1	2	58.85
12453	14 2681	8.4 K5	13 53 32.877	291.50	.07	13 59 38.18	-1763.3	10.5	2	57.88
12464	32 2412	8.0 F0	13 54 6.851	267.26	-.24	32 7 32.41	-1760.9	9.7	2	57.72
12468	70 762	7.5 K0	13 54 22.338	129.91	.97	70 10 44.50	-1759.8	4.9	4	58.29
12469	76 504	8.7 K0	13 54 23.781	40.75	4.44	76 30 30.21	-1759.7	1.8	2	58.25
12477	44 2312	7.4 G0	13 54 53.024	244.17	-.37	44 31 33.31	-1757.7	8.9	2	57.42
12483	38 2494	8.7 G5	13 55 4.801	257.06	-.31	38 0 39.68	-1756.8	9.4	2	57.81
12499	3 2836	7.8 K0	13 55 35.242	303.92	.30	3 1 35.69	-1754.7	11.1	2	58.36
12500	33 2390	7.3 K0	13 55 44.144	265.60	-.24	32 50 37.13	-1754.1	9.7	2	57.26
12506	47 2108	6.8 M0	13 56 46.803	237.83	-.37	46 50 19.20	-1749.6	8.8	2	56.34
12523	42 2455	7.6 K0	13 57 37.678	247.65	-.34	42 17 28.40	-1746.0	9.2	2	57.39
12525	56 1700	8.7 F8	13 57 51.529	209.67	-.31	56 3 34.65	-1745.0	7.9	2	57.36
12526	35 2516	8.3 K2	13 58 2.794	261.89	-.25	34 36 57.56	-1744.2	9.8	2	57.80
12527	- 1 2888	8.4 A5	13 58 5.743	309.44	.41	- 1 50 29.05	-1744.0	11.5	2	58.34

Position 1950 + T = Position 1950 + T (1st term) + T² (2nd term) + T' (P. M.).

T in centuries from 1900.0, T' in centuries from epoch.

No.	B.D. No.	M + Sp.	R.A. 1950	Precession		Decl. 1950	Precession		No. Obs.	Epoch 1900+
				1st Term	2nd Term		1st Term	2nd Term		
12532	6 2819	8.6 F8	13 58 44.406	300.12	.24	6 12 40.84	-1741.2	11.2	2	57.80
12533	31 2574	8.9 K0	13 58 48.762	267.66	-.19	30 55 40.17	-1740.9	10.0	2	57.74
12540	29 2483	7.9 A2	13 59 4.008	271.08	-.16	28 39 1.50	-1739.8	10.2	2	57.32
12547	50 2041	8.4 K0	13 59 23.264	227.00	-.35	50 22 47.39	-1738.4	8.6	2	57.34
12552	71 673	8.4 K0	13 59 52.041	111.07	1.47	71 13 5.28	-1736.3	4.4	2	57.37
12554	44 2319	7.4 G5	14 0 5.745	243.21	-.34	43 47 57.94	-1735.3	9.2	2	57.42
12559	-1 2897	8.3 K0	14 0 16.710	309.82	.42	-2 8 7.90	-1734.5	11.7	2	56.90
12560	18 2815	8.6 K0	14 0 27.664	285.25	.02	18 13 40.29	-1733.8	10.8	2	57.26
12563	14 2692	8.6 M0	14 0 43.697	290.73	.09	13 52 39.88	-1732.5	11.0	2	57.77
12570	33 2402	7.6 K2	14 1 0.239	263.52	-.22	33 3 13.16	-1731.3	10.0	2	57.39
12573	55 1650	7.8 G5	14 1 4.293	211.48	-.29	54 54 21.11	-1731.0	8.1	2	57.36
12578	13 2742	6.9 K0	14 1 29.150	291.78	.12	12 57 57.07	-1729.2	11.1	2	56.82
12582	3 2847	8.0 K0	14 1 47.326	303.96	.31	2 50 47.69	-1727.9	11.6	2	57.34
12583	59 1553	8.5 K0	14 1 54.226	193.15	-.16	59 18 33.82	-1727.4	7.5	2	57.78
12584	37 2490	8.5 K0	14 2 4.962	255.38	-.26	37 26 11.72	-1726.6	9.8	2	57.42
12586	22 2659	8.7 A0	14 2 10.119	280.41	-.04	21 37 37.16	-1726.2	10.8	2	56.82
12599	17 2699	8.2 K0	14 2 52.178	286.55	.04	16 55 48.60	-1723.1	11.0	2	58.74
12603	2 2771	8.5 F2	14 3 33.451	305.23	.34	1 45 7.74	-1720.0	11.8	2	56.82
12608	-3 3580	8.3 K2	14 3 48.074	312.04	.47	-3 55 32.88	-1718.9	12.1	2	57.36
12610	24 2685	8.1 F5	14 3 59.637	277.22	-.06	23 37 35.50	-1718.0	10.8	2	57.42
12612	28 2292	8.0 F2	14 4 10.114	270.75	-.13	27 57 50.40	-1717.2	10.5	2	56.90
12627	6 2839	8.8 A0	14 5 11.626	300.26	.26	5 48 44.00	-1712.6	11.7	2	57.28
12630	0 3135	7.2 K5	14 5 16.353	307.11	.38	0 10 51.74	-1712.2	12.0	2	56.82
12636	16 2612	8.7 K5	14 5 29.852	286.99	.06	16 17 46.77	-1711.2	11.3	2	57.79
12650	52 1776	8.5 K0	14 6 38.400	218.11	-.28	51 49 43.74	-1706.0	8.7	2	56.90
12651	32 2435	8.6 K2	14 6 43.339	263.04	-.18	32 15 18.64	-1705.6	10.4	2	56.82
12653	3 2859	6.7 K0	14 6 56.253	303.61	.32	3 2 0.80	-1704.6	12.0	2	57.26
12658	82 411	8.8 M2	14 7 5.340	-183.56	19.92	81 50 37.39	-1703.9	-6.7	4	59.33
12661	15 2670	8.3 K0	14 7 16.426	288.91	.10	14 39 4.46	-1703.1	11.5	2	57.34
12672	-4 3633	8.4 K0	14 7 54.337	313.79	.50	-5 13 19.77	-1700.1	12.5	2	56.82
12673	41 2471	6.8 K2	14 7 56.825	245.77	-.26	41 0 48.72	-1700.0	9.9	2	57.80
12683	2 2782	7.9 G5	14 8 45.861	305.08	.35	1 48 26.24	-1696.2	12.2	2	56.90
12692	63 1120	8.0 F5	14 9 28.788	168.39	.19	62 45 24.67	-1692.8	6.9	2	58.36
12701	43 2392	8.0 K5	14 10 9.359	241.13	-.26	42 38 44.69	-1689.6	9.8	2	57.80
12704	8 2827	7.8 K0	14 10 18.415	296.91	.22	8 14 32.28	-1688.9	12.0	2	57.33
12708	10 2649	8.7 K0	14 10 25.465	294.52	.18	10 4 55.10	-1688.4	11.9	2	57.40
12713	17 2717	8.4 F8	14 10 56.793	285.60	.07	16 44 16.11	-1685.9	11.6	2	57.41
12715	51 1898	8.4 G0	14 11 5.279	219.27	-.25	50 36 0.33	-1685.2	9.0	4	59.33
12720	7 2760	7.6 K0	14 11 24.992	297.97	.24	7 21 17.57	-1683.7	12.1	2	57.35
12732	-4 3645	8.3 K0	14 11 59.837	313.81	.51	-5 5 39.19	-1680.9	12.8	2	57.34
12752	45 2165	8.0 K2	14 13 3.808	235.08	-.25	44 35 25.47	-1675.8	9.8	2	57.87
12757	13 2771	8.2 G5	14 13 33.743	290.77	.14	12 41 11.14	-1673.4	12.0	2	56.88
12766	23 2671	8.7 G0	14 14 16.826	276.10	-.02	22 54 23.37	-1670.0	11.5	2	57.34
12772	38 2538	8.6 K2	14 14 32.603	249.54	-.20	37 58 56.58	-1668.7	10.4	2	57.26
12774	74 573	8.8 F8	14 14 37.261	56.29	3.12	73 33 54.20	-1668.3	2.6	2	56.80
12782	12 2677	7.8 K0	14 15 10.825	292.12	.17	11 33 56.92	-1665.6	12.2	2	57.87
12787	14 2722	8.4 K2	14 15 25.596	288.58	.12	14 8 4.25	-1664.4	12.1	2	57.42
12792	4 2847	7.0 K0	14 15 58.530	302.23	.32	3 54 16.97	-1661.7	12.7	2	58.34
12802	18 2861	7.6 K0	14 16 21.701	283.59	.07	17 34 58.69	-1659.8	11.9	2	57.36
12803	20 2957	8.4 K0	14 16 28.901	279.92	.03	20 5 7.44	-1659.2	11.8	2	57.79

Position 1950 + T = Position 1950 + T (1st term) + T² (2nd term) + T' (P. M.).

T in centuries from 1900. 0, T' in centuries from epoch.

No.	B. D. No.	M + Sp.	R.A. 1950	Precession		Decl. 1950	Precession		No. Obs.	Epoch 1900+
				1st Term	2nd Term		1st Term	2nd Term		
12809	0 3162	8.0 K2	14 16 53.340	307.04	.39	0 12 57.01	-1657.2	12.9	2	56.34
12810	54 1661	7.7 K5	14 16 56.110	203.22	-.13	54 10 12.23	-1657.0	8.7	2	57.34
12815	15 2695	8.6 K0	14 17 2.759	286.94	.11	15 9 53.34	-1656.5	12.1	2	57.87
12817	79 443	8.3 K2	14 17 14.454	-101.72	11.62	79 34 1.25	-1655.5	-3.8	2	58.35
12821	84 322	8.3 K	14 17 46.453	-433.48	46.68	84 10 30.29	-1652.9	-17.5	2	57.82
12827	25 2759	8.9 F8	14 18 15.194	272.02	-.04	24 58 24.81	-1650.5	11.6	2	57.79
12830	76 520	7.9 K0	14 18 32.932	5.02	5.19	75 53 52.49	-1649.0	.6	2	57.33
12835	19 2796	6.8 K5	14 18 49.044	280.52	.05	19 24 28.96	-1647.7	12.0	2	56.86
12844	34 2522	8.9 K5	14 19 46.434	256.09	-.14	33 48 14.93	-1642.9	11.0	2	58.69
12847	7 2774	8.8 F5	14 19 53.518	297.61	.26	7 13 57.69	-1642.3	12.8	2	56.88
12852	36 2478	8.0 G0	14 20 7.850	251.85	-.16	35 52 32.12	-1641.1	10.9	2	57.81
12857	18 2870	8.1 K0	14 20 27.908	282.83	.08	17 40 49.06	-1639.5	12.2	2	57.33
12861	24 2728	8.5 K0	14 20 42.695	272.52	-.02	24 20 0.39	-1638.2	11.8	2	57.90
12864	46 1960	8.5 K2	14 20 55.392	226.54	-.19	46 20 34.74	-1637.1	9.9	2	56.88
12871	64 997	7.3 K2	14 21 34.054	145.06	.58	64 30 10.44	-1633.9	6.5	2	56.33
12872	44 2350	7.8 K0	14 21 37.189	233.39	-.19	43 41 5.73	-1633.6	10.2	2	58.36
12875	50 2070	7.3 K0	14 21 48.394	216.16	-.16	49 37 53.40	-1632.7	9.5	3	58.67
12879	- 1 2951	7.3 M0	14 22 0.644	310.19	.45	- 2 7 1.99	-1631.6	13.5	2	57.38
12888	6 2878	7.2 K0	14 22 33.522	299.36	.29	5 50 27.25	-1628.8	13.1	2	57.97
12889	20 2975	8.4 K0	14 22 39.936	279.38	.05	19 44 7.45	-1628.3	12.2	2	58.33
12891	18 2877	8.6 K2	14 22 44.592	281.28	.07	18 28 47.54	-1627.9	12.3	2	56.79
12894	77 541	8.8 G5	14 23 10.254	-28.21	6.63	76 53 22.74	-1625.7	-.9	2	57.82
12908	83 415	8.8 K5	14 23 53.833	-328.92	31.30	82 58 3.95	-1622.0	-13.7	2	57.82
12914	28 2325	8.3 F8	14 24 21.996	265.70	-.05	27 52 9.43	-1619.6	11.8	2	56.86
12919	53 1711	8.5 K0	14 24 51.008	203.14	-.09	52 50 58.01	-1617.1	9.1	2	56.82
12920	48 2202	8.3 K0	14 25 0.100	218.86	-.15	48 13 59.78	-1616.3	9.8	2	57.87
12923	15 2714	7.2 K0	14 25 7.062	286.17	.13	14 58 40.42	-1615.8	12.7	2	56.89
12924	35 2561	8.5 F5	14 25 7.407	252.07	-.12	34 56 44.92	-1615.7	11.2	2	57.79
12925	51 1921	8.4 G5	14 25 11.136	210.92	-.12	50 38 3.56	-1615.4	9.4	2	57.36
12936	63 1132	7.8 K5	14 25 40.932	153.42	.44	62 43 53.94	-1612.8	7.0	2	57.42
12938	29 2538	7.8 G5	14 25 47.581	262.44	-.07	29 29 13.11	-1612.2	11.7	2	56.90
12941	6 2891	7.5 M0	14 25 58.939	299.11	.29	5 54 14.35	-1611.2	13.3	2	58.33
12943	38 2557	8.0 G5	14 26 6.695	245.68	-.14	37 46 46.23	-1610.6	11.0	3	59.01
12950	1 2939	8.6 K0	14 26 24.496	305.55	.38	1 16 43.64	-1609.0	13.6	2	58.34
12958	11 2684	7.9 K0	14 26 36.976	291.44	.19	11 15 55.69	-1607.9	13.0	2	58.81
12961	40 2785	7.5 K0	14 26 54.947	240.66	-.14	39 50 27.41	-1606.4	10.8	2	57.88
12968	20 2981	8.7 K5	14 27 34.543	278.44	.06	19 48 27.16	-1602.9	12.5	2	57.79
12971	- 2 3855	8.1 K0	14 28 6.520	311.38	.47	- 2 53 17.89	-1600.2	14.0	2	56.34
12973	25 2786	8.0 G5	14 28 13.688	269.25	-.01	25 18 39.84	-1599.5	12.2	2	56.90
12974	69 751	8.1 K5	14 28 18.388	91.86	1.73	69 30 3.95	-1599.0	4.4	2	57.42
12975	56 1742	8.7 A2	14 28 27.132	186.28	.05	56 20 7.53	-1598.3	8.5	2	57.35
12979	43 2414	8.5 G5	14 28 45.115	232.63	-.15	42 45 50.17	-1596.7	10.6	2	58.39
12984	46 1966	7.8 K5	14 29 22.552	223.93	-.14	45 48 55.55	-1593.4	10.2	2	57.86
12985	72 645	8.5 K5	14 29 23.367	50.55	2.98	72 28 48.44	-1593.3	2.6	2	57.87
12988	- 1 2963	8.2 G5	14 29 28.206	309.55	.44	- 1 34 8.14	-1592.9	14.0	2	57.97
12991	31 2627	8.5 K2	14 29 39.892	257.50	-.07	31 32 28.49	-1591.9	11.7	2	57.87
12993	22 2714	8.4 G5	14 29 45.180	274.01	.04	22 17 58.99	-1591.4	12.5	2	57.80
13000	33 2471	8.9 A0	14 30 15.276	253.59	-.09	33 24 48.83	-1588.7	11.6	2	58.72
13007	41 2510	8.3 M0	14 30 57.966	236.08	-.13	41 3 32.34	-1584.9	10.9	2	57.34
13016	2 2836	8.5 K0	14 31 46.420	304.61	.37	1 53 48.49	-1580.6	14.0	2	57.79

Position 1950 + T = Position 1950 + T (1st term) + T² (2nd term) + T' (P. M.).

T in centuries from 1900.0, T' in centuries from epoch.

No.	B.D. No.	M + Sp.	R.A. 1950	Precession		Decl. 1950	Precession		No. Obs.	Epoch 1900+
				1st Term	2nd Term		1st Term	2nd Term		
13018	8 2883	8.3 K5	14 31 52.891	296.13	.26	7 45 27.91	-1580.0	13.6	2	57.79
13019	22 2718	9.2 K2	14 31 57.229	274.72	.05	21 37 35.81	-1579.6	12.7	2	56.34
13020	39 2778	8.4 K5	14 31 57.993	240.35	-.12	39 9 29.23	-1579.5	11.1	2	57.87
13022	75 539	7.9 M0	14 32 5.811	-10.87	5.35	75 29 47.50	-1578.9	-.2	2	58.35
13024	- 0 2845	8.7 F8	14 32 13.406	309.04	.43	- 1 11 38.96	-1578.2	14.2	2	57.40
13026	6 2912	8.7 K0	14 32 20.233	298.17	.29	6 20 14.13	-1577.6	13.7	2	58.77
13036	19 2824	8.0 K0	14 32 56.613	278.15	.08	19 25 58.28	-1574.3	12.9	2	57.86
13043	41 2513	8.9 G0	14 33 16.551	233.88	-.12	41 33 22.00	-1572.5	10.9	2	58.35
13045	0 3207	7.8 G5	14 33 25.649	306.70	.40	0 26 13.20	-1571.7	14.2	2	58.88
13047	35 2581	8.8 K2	14 33 27.280	249.47	-.09	34 54 14.17	-1571.5	11.6	2	59.27
13053	27 2396	8.9 K0	14 33 51.533	265.66	-.01	26 37 32.91	-1569.3	12.4	2	57.80
13058	48 2220	8.8 K0	14 34 16.132	215.11	-.09	47 54 25.36	-1567.1	10.1	4	58.59
13059	24 2745	7.5 K5	14 34 16.975	270.52	.03	23 50 17.86	-1567.0	12.6	2	56.82
13067	15 2732	8.6 K0	14 34 40.285	285.07	.15	14 55 41.31	-1564.9	13.3	2	58.39
13069	50 2098	7.4 K5	14 34 44.347	208.70	-.06	49 44 33.81	-1564.5	9.8	4	58.07
13070	28 2349	8.5 A3	14 34 45.635	262.82	-.02	28 3 9.44	-1564.4	12.3	2	57.88
13079	55 1699	7.5 K0	14 35 20.556	187.34	.07	55 4 16.87	-1561.2	8.9	5	58.76
13093	30 2541	7.8 K0	14 36 31.081	258.19	-.04	30 13 48.28	-1554.7	12.2	2	57.33
13095	69 761	8.2 K0	14 36 46.499	91.15	1.67	68 39 52.51	-1553.3	4.5	2	58.95
13102	22 2727	8.6 A0	14 37 30.825	272.39	.05	22 23 44.67	-1549.2	12.9	2	58.28
13104	10 2720	8.4 F8	14 37 43.667	292.22	.23	10 5 44.28	-1548.0	13.9	2	57.26
13107	38 2578	7.6 K2	14 37 59.485	240.15	-.09	38 19 27.48	-1546.6	11.5	2	56.89
13108	9 2928	7.5 K0	14 38 11.401	293.56	.25	9 11 31.03	-1545.5	14.0	2	57.86
13115	12 2725	8.2 G5	14 38 42.824	288.69	.20	12 19 24.14	-1542.6	13.8	2	57.91
13118	67 847	8.8 F2	14 38 45.337	102.24	1.38	67 24 34.77	-1542.3	5.1	2	57.79
13122	0 3223	8.1 K0	14 38 53.032	306.85	.41	0 18 59.80	-1541.6	14.6	2	57.34
13124	- 0 2855	7.8 K5	14 39 1.175	309.08	.44	- 1 10 30.69	-1540.9	14.7	2	57.86
13130	70 799	8.6 K0	14 39 16.612	71.61	2.15	70 2 58.65	-1539.4	3.7	2	58.35
13142	- 4 3736	8.2 K0	14 39 48.009	314.64	.51	- 4 52 22.31	-1536.5	15.1	2	57.89
13144	2 2854	8.1 G5	14 39 59.373	303.57	.36	2 30 27.53	-1535.4	14.5	2	58.87
13150	21 2677	8.3 K0	14 40 18.087	274.82	.08	20 42 12.87	-1533.7	13.2	2	58.41
13155	80 451	7.3 K0	14 40 22.461	-180.75	14.61	80 0 2.90	-1533.2	-8.2	2	57.88
13156	49 2319	8.8 G5	14 40 26.037	207.12	-.03	49 20 10.80	-1532.9	10.1	2	57.86
13172	23 2729	8.8 G5	14 41 51.784	270.50	.05	23 0 32.65	-1524.8	13.1	2	57.33
13176	66 867	8.4 K0	14 42 9.836	111.32	1.16	66 6 5.75	-1523.1	5.6	2	57.87
13177	51 1945	8.6 F8	14 42 11.979	200.72	.01	50 49 32.93	-1522.9	9.8	2	56.89
13180	4 2909	8.0 G5	14 42 24.539	301.71	.34	3 41 41.08	-1521.7	14.6	2	57.34
13184	32 2511	8.0 K0	14 42 40.361	252.19	-.03	32 20 23.97	-1520.2	12.3	2	57.36
13191	39 2797	8.9 F8	14 43 2.592	236.12	-.06	39 13 21.71	-1518.1	11.6	2	58.72
13192	34 2559	7.6 M0	14 43 8.359	247.15	-.05	34 35 9.50	-1517.6	12.1	2	58.40
13194	61 1456	7.8 K0	14 43 11.071	149.95	.50	60 58 55.70	-1517.3	7.5	2	57.42
13197	56 1757	8.3 K0	14 43 19.612	179.34	.17	55 40 59.11	-1516.5	8.9	2	58.86
13200	17 2783	7.5 K2	14 43 33.557	280.57	.14	17 0 26.98	-1515.1	13.7	2	57.34
13209	26 2598	8.0 K5	14 44 15.040	264.22	.03	26 9 27.97	-1511.2	13.0	2	57.36
13214	44 2391	8.4 F5	14 44 26.342	223.45	-.05	43 40 28.50	-1510.1	11.0	2	57.33
13230	48 2240	8.0 F8	14 45 39.147	208.76	-.01	48 7 2.07	-1503.1	10.4	2	56.85
13236	38 2591	8.5 K0	14 46 5.535	238.43	-.05	37 52 39.70	-1500.6	11.8	2	56.89
13242	53 1737	7.8 K2	14 46 40.331	190.16	.09	52 49 57.90	-1497.2	9.5	2	56.42
13246	21 2692	8.2 K0	14 46 52.347	273.89	.09	20 36 28.81	-1496.0	13.6	2	57.86
13250	2 2869	8.0 K0	14 47 5.991	304.67	.38	1 42 40.58	-1494.7	15.1	2	57.33

Position 1950 + T = Position 1950 + T (1st term) + T² (2nd term) + T' (P. M.).

T in centuries from 1900.0, T' in centuries from epoch.

No.	B. D. No.	M + Sp.	R.A. 1950	Precession		Decl. 1950	Precession		No. Obs.	Epoch 1900+
				1st Term	2nd Term		1st Term	2nd Term		
13251	4 2924	7.7 K0	14 47 13.736	300.98	.34	4 4 39.81	-1493.9	14.9	2	57.87
13253	64 1031	8.2 G0	14 47 18.659	125.18	.88	63 55 55.95	-1493.5	6.4	2	57.87
13255	54 1708	6.9 K2	14 47 35.559	182.52	.15	54 26 17.33	-1491.8	9.2	2	58.72
13256	50 2120	7.9 F8	14 47 37.468	200.80	.04	50 2 38.65	-1491.7	10.1	2	58.35
13271	31 2668	8.5 K0	14 48 42.105	254.20	.00	30 38 5.11	-1485.3	12.8	2	57.87
13276	14 2796	8.1 G5	14 48 59.676	285.10	.19	13 53 52.19	-1483.6	14.3	2	57.33
13281	66 873	6.8 K5	14 49 28.488	106.49	1.22	65 51 3.74	-1480.8	5.5	2	56.90
13295	44 2399	8.7 K0	14 50 25.827	218.66	-.02	44 25 43.87	-1475.1	11.1	2	56.87
13333	60 1572	6.8 K2	14 52 51.118	150.65	.48	59 43 2.49	-1460.7	7.8	2	56.90
13335	7 2865	6.8 K5	14 52 54.626	296.12	.30	6 59 12.02	-1460.4	15.1	2	57.39
13337	1 3002	8.4 G5	14 53 0.019	305.84	.40	0 56 0.61	-1459.8	15.6	2	57.77
13338	28 2381	8.9 K5	14 53 2.885	259.06	.03	27 47 39.91	-1459.5	13.2	2	56.87
13343	33 2510	7.3 K0	14 53 14.965	247.74	0.00	33 1 32.17	-1458.3	12.7	4	59.11
13349	40 2827	7.3 K0	14 53 33.727	230.70	-.02	39 51 15.01	-1456.5	11.9	4	58.14
13350	87 143	6.9 K0	14 53 34.561	1731.71	296.53	87 25 20.06	-1456.4	-86.4	2	58.41
13358	- 4 3779	8.6 F5	14 54 6.242	315.27	.51	- 4 55 47.46	-1453.2	16.1	2	58.80
13360	17 2803	7.6 G0	14 54 10.592	278.65	.16	17 18 16.39	-1452.8	14.3	2	57.96
13363	4 2939	8.2 K0	14 54 23.017	300.56	.34	4 12 4.10	-1451.5	15.4	2	58.82
13365	48 2248	8.5 A5	14 54 27.651	203.95	.04	48 16 46.23	-1451.0	10.6	2	59.88
13374	67 858	8.5 K0	14 55 19.222	91.23	1.48	66 49 8.92	-1445.9	4.9	2	56.33
13375	57 1544	8.7 K2	14 55 21.776	163.47	.34	57 14 41.87	-1445.6	8.6	2	56.87
13384	0 3286	8.4 K0	14 56 22.374	307.56	.42	- 0 8 37.00	-1439.5	15.9	2	57.87
13391	25 2856	7.5 G5	14 56 37.803	263.43	.07	25 14 48.41	-1437.9	13.7	2	56.89
13395	35 2634	8.9 G5	14 56 48.955	242.82	.00	34 42 4.50	-1436.8	12.6	2	57.80
13400	20 3051	8.6 K2	14 57 11.706	272.31	.12	20 34 10.36	-1434.5	14.2	2	57.79
13402	30 2596	8.0 K5	14 57 26.060	253.25	.03	30 3 56.35	-1433.0	13.2	2	58.34
13407	8 2955	7.1 K2	14 57 51.264	294.43	.29	7 50 46.02	-1430.5	15.4	2	58.86
13411	61 1473	8.2 K0	14 58 8.261	136.21	.67	61 17 33.18	-1428.7	7.3	4	57.87
13418	2 2900	8.5 G5	14 58 39.442	303.96	.38	2 3 3.07	-1425.5	15.9	2	56.40
13430	77 565	7.4 K0	14 59 32.076	-92.34	7.68	76 43 31.55	-1420.1	-4.4	2	56.96
13434	46 2017	8.9 A2	14 59 38.891	209.73	.03	45 58 19.94	-1419.4	11.1	2	57.87
13437	15 2808	7.9 F0	14 59 54.255	281.52	.18	15 16 51.66	-1417.8	14.8	2	57.41
13442	42 2559	7.9 K0	15 0 15.700	221.41	.02	42 14 53.67	-1415.6	11.7	2	57.78
13452	24 2814	8.9 K0	15 0 49.127	264.74	.08	24 11 4.41	-1412.2	14.0	2	56.89
13454	5 2962	7.8 F5	15 0 50.744	298.98	.33	5 1 45.19	-1412.0	15.8	2	56.96
13456	18 2972	7.6 K0	15 0 54.814	276.19	.15	18 10 14.31	-1411.6	14.6	2	57.49
13463	48 2258	8.3 G5	15 1 19.879	202.06	.07	47 55 33.91	-1408.9	10.8	2	57.84
13471	11 2762	7.9 K5	15 1 39.305	288.95	.24	10 55 45.68	-1407.0	15.3	2	57.93
13473	84 339	8.2 K0	15 1 42.653	-633.76	53.71	84 13 28.75	-1406.6	-32.6	2	58.91
13488	12 2785	7.9 K5	15 3 6.178	286.89	.23	12 3 1.07	-1397.9	15.3	2	56.40
13500	- 1 3020	8.4 K2	15 4 24.849	310.87	.46	- 2 6 20.92	-1389.7	16.6	2	56.94
13508	0 3304	7.9 K0	15 4 51.128	306.96	.41	0 13 14.60	-1386.9	16.4	4	58.60
13514	6 3000	7.8 K0	15 5 5.933	296.39	.31	6 27 38.60	-1385.3	15.9	4	59.11
13527	18 2977	8.9 F5	15 5 52.570	275.74	.16	18 3 42.10	-1380.4	14.9	2	56.87
13533	27 2457	7.7 K0	15 6 4.742	258.14	.07	26 54 7.01	-1379.1	13.9	2	57.86
13544	58 1552	7.2 M0	15 6 58.574	152.51	.46	57 50 51.54	-1373.4	8.4	2	56.44
13549	4 2971	8.1 K0	15 7 17.039	300.69	.35	3 53 51.61	-1371.5	16.3	2	56.33
13555	61 1484	7.6 K2	15 7 52.070	131.23	.72	60 59 8.97	-1367.7	7.3	2	56.34
13560	27 2461	8.4 K0	15 8 14.592	256.16	.07	27 36 43.72	-1365.3	14.0	2	57.34
13562	70 826	8.0 G5	15 8 18.215	33.52	2.70	70 20 10.30	-1365.0	2.1	2	56.92

Position 1950 + T = Position 1950 + T (1st term) + T² (2nd term) + T' (P. M.).

T in centuries from 1900.0, T' in centuries from epoch.

No.	B. D. No.	M + Sp.	R.A. 1950	Precession		Decl. 1950	Precession		No. Obs.	Epoch 1900+
				1st Term	2nd Term		1st Term	2nd Term		
13565	45 2262	8.7 F8	15 8 27.611	209.22	.08	45 3 30.45	-1363.9	11.5	2	56.96
13567	7 2909	8.0 K0	15 8 33.069	294.41	.30	7 30 46.10	-1363.4	16.0	2	57.43
13582	55 1736	8.6 K0	15 9 27.724	163.71	.35	55 36 36.29	-1357.5	9.1	4	57.65
13589	0 3318	7.5 K5	15 10 3.437	307.66	.42	- 0 11 40.40	-1353.7	16.8	2	56.40
13591	59 1632	7.2 K5	15 10 13.141	141.65	.58	59 14 28.94	-1352.6	7.9	2	56.88
13595	- 4 3832	8.0 A3	15 10 32.776	315.06	.50	- 4 28 45.08	-1350.5	17.3	2	56.87
13603	89 28	8.9 K3	15 10 50.513	5742.602361	.80	89 3 49.81	-1348.8	-309.3	4	59.39
13607	53 1771	7.9 K0	15 10 58.168	175.54	.26	53 6 58.80	-1347.8	9.8	2	57.34
13609	5 2981	7.8 K2	15 11 2.725	298.27	.33	5 13 50.00	-1347.3	16.4	2	57.43
13610	49 2363	7.2 K0	15 11 6.495	194.43	.14	48 45 59.70	-1346.9	10.8	4	58.30
13614	16 2752	8.7 K0	15 11 12.385	278.74	.19	16 6 29.75	-1346.3	15.3	2	57.43
13617	12 2809	8.8 K5	15 11 22.710	285.86	.24	12 13 35.15	-1345.1	15.7	2	58.40
13629	73 664	8.1 K5	15 12 10.136	-18.85	4.17	73 3 27.38	-1340.0	-.7	2	58.42
13641	34 2617	8.2 F0	15 13 1.343	240.85	.05	33 41 48.16	-1334.4	13.4	2	56.89
13646	76 557	8.0 M0	15 13 30.850	-83.29	6.48	75 39 23.36	-1331.2	-4.3	2	56.88
13652	27 2469	8.5 K2	15 13 55.611	257.03	.09	26 41 19.98	-1328.5	14.3	2	57.43
13655	19 2945	7.7 F5	15 14 9.934	272.18	.15	19 20 33.05	-1327.0	15.1	2	56.36
13658	24 2838	8.1 K2	15 14 18.205	263.29	.11	23 43 40.44	-1326.1	14.7	2	58.36
13660	39 2858	8.5 G5	15 14 34.371	226.19	.05	38 58 24.47	-1324.3	12.7	4	59.65
13661	14 2856	8.5 G5	15 14 34.690	281.56	.21	14 24 26.94	-1324.3	15.7	2	58.95
13665	29 2646	8.9 A2	15 14 52.635	252.43	.08	28 39 59.19	-1322.3	14.1	2	57.87
13666	21 2751	8.5 K0	15 15 0.829	268.40	.14	21 10 44.76	-1321.4	15.0	2	58.88
13667	25 2891	8.8 K2	15 15 1.093	259.65	.10	25 23 18.15	-1321.4	14.5	2	57.82
13669	- 0 2948	7.2 G5	15 15 5.964	308.73	.43	- 0 48 10.05	-1320.8	17.2	2	58.41
13671	4 2993	8.7 K5	15 15 12.142	300.37	.35	3 57 35.99	-1320.2	16.8	2	56.87
13684	7 2937	8.6 K2	15 16 34.115	294.62	.31	7 10 9.39	-1311.2	16.5	2	56.81
13687	52 1865	7.9 K0	15 16 38.229	178.88	.24	51 47 53.91	-1310.7	10.1	2	56.88
13688	15 2842	8.9 K2	15 16 41.887	279.57	.20	15 20 54.62	-1310.3	15.7	4	57.91
13689	45 2277	7.8 K0	15 16 56.965	205.42	.10	45 11 53.25	-1308.6	11.6	2	57.36
13698	30 2643	8.7 K0	15 17 31.147	249.37	.08	29 44 52.78	-1304.8	14.1	2	57.41
13700	60 1603	7.8 K5	15 17 40.408	133.65	.66	59 42 5.84	-1303.8	7.7	2	58.82
13709	61 1495	7.1 G0	15 18 18.882	119.55	.85	61 33 18.28	-1299.6	6.9	2	56.92
13711	0 3348	8.4 G5	15 18 33.051	307.42	.41	- 0 3 8.00	-1298.0	17.3	2	58.33
13718	23 2804	8.2 G0	15 19 7.815	263.26	.13	23 21 33.87	-1294.1	14.9	2	56.87
13719	68 828	8.5 K0	15 19 19.845	54.63	2.00	67 59 54.01	-1292.8	3.3	2	56.91
13721	18 3008	8.2 K0	15 19 27.217	272.91	.17	18 37 2.90	-1292.0	15.5	2	58.34
13722	48 2284	8.9 K2	15 19 28.457	192.25	.16	48 24 13.52	-1291.8	11.0	2	56.89
13726	40 2874	8.6 K0	15 19 42.144	220.49	.08	40 20 32.43	-1290.3	12.6	2	58.48
13727	22 2824	8.4 K0	15 19 42.797	266.72	.14	21 39 32.65	-1290.2	15.1	2	57.34
13728	78 510	7.5 K2	15 19 47.638	-198.75	11.42	78 34 26.48	-1289.7	-10.8	2	58.42
13733	43 2491	8.7 K5	15 20 7.111	212.57	.09	42 46 49.69	-1287.5	12.1	2	56.89
13742	- 2 3985	8.8 K0	15 20 34.153	312.86	.46	- 3 5 25.29	-1284.5	17.8	2	57.88
13746	28 2425	7.3 K0	15 20 39.755	252.23	.10	28 14 3.18	-1283.9	14.4	2	58.33
13750	56 1798	7.3 K5	15 20 49.407	155.87	.43	55 52 4.73	-1282.8	9.0	2	57.86
13758	9 3031	7.5 K5	15 21 34.576	290.87	.28	9 4 55.00	-1277.7	16.6	2	57.87
13759	25 2908	8.2 F5	15 21 42.607	258.29	.12	25 27 41.76	-1276.8	14.8	2	58.34
13763	65 1052	8.7 G0	15 21 59.379	84.19	1.39	65 12 4.58	-1274.9	5.0	2	57.83
13766	63 1194	7.3 K0	15 22 9.845	102.15	1.08	63 18 23.42	-1273.8	6.0	2	59.39
13767	17 2859	8.6 K0	15 22 11.468	276.06	.19	16 51 30.35	-1273.6	15.8	2	58.87
13770	8 3026	8.0 G5	15 22 29.753	292.87	.29	7 58 1.23	-1271.5	16.8	4	58.91

Position 1950 + T = Position 1950 + T (1st term) + T² (2nd term) + T' (P. M.).

T in centuries from 1900.0, T' in centuries from epoch.

No.	B. D. No.		M + Sp.	R.A. 1950	Precession		Decl. 1950	Precession		No. Obs.	Epoch 1900+
					1st Term	2nd Term		1st Term	2nd Term		
13777	29	2663	8.6 K0	15 22 57.970	249.22	.10	29 19 17.12	-1268.3	14.4	2	57.42
13796	59	1655	8.7 K7	15 24 13.914	133.09	.66	59 11 10.24	-1259.7	7.8	2	56.92
13797	44	2464	6.5 K5	15 24 16.290	205.27	.12	44 28 34.35	-1259.5	11.9	2	57.87
13799	- 3	3784	8.6 G0	15 24 26.033	313.48	.47	- 3 23 18.03	-1258.4	18.0	2	58.88
13803	- 1	3057	8.4 K0	15 24 42.971	310.34	.44	- 1 39 24.13	-1256.4	17.9	2	57.94
13807	1	3080	8.4 G5	15 24 51.163	305.49	.39	1 0 41.35	-1255.5	17.6	2	59.35
13811	37	2644	8.9 M0	15 25 5.478	229.52	.08	36 44 17.09	-1253.9	13.3	2	56.89
13812	- 0	2971	8.5 A2	15 25 11.495	308.13	.42	- 0 26 29.94	-1253.2	17.8	2	58.35
13816	73	678	8.7 K0	15 25 28.446	-34.54	4.22	73 1 17.06	-1251.3	-1.7	2	57.80
13824	7	2968	8.8 A5	15 26 9.722	294.31	.31	7 5 38.43	-1246.5	17.1	2	57.36
13827	3	3039	8.8 K0	15 26 15.754	300.70	.35	3 37 13.19	-1245.9	17.4	2	58.94
13832	2	2968	8.8 F8	15 27 4.996	303.79	.38	1 55 46.09	-1240.2	17.7	2	57.37
13835	16	2790	7.4 K0	15 27 26.137	276.47	.20	16 21 46.01	-1237.8	16.1	2	56.88
13843	19	2973	8.0 K0	15 27 54.029	270.67	.17	19 11 57.71	-1234.6	15.8	2	56.87
13844	33	2594	8.3 G0	15 27 57.795	239.51	.09	32 47 20.12	-1234.2	14.0	2	57.93
13852	- 3	3793	8.5 K0	15 28 29.504	315.06	.48	- 4 11 34.74	-1230.6	18.4	2	58.28
13853	46	2074	7.5 K2	15 28 31.397	195.96	.16	46 33 21.87	-1230.3	11.5	3	59.03
13865	14	2889	7.9 G5	15 29 19.241	280.11	.22	14 25 43.88	-1224.8	16.4	2	58.34
13868	49	2398	9.0 K0	15 29 41.994	185.45	.21	49 0 46.00	-1222.2	11.0	2	57.37
13874	40	2896	7.4 K0	15 29 54.604	218.89	.11	39 50 48.99	-1220.7	12.9	4	58.86
13879	10	2871	8.2 K5	15 30 9.505	288.71	.27	9 57 18.82	-1219.0	17.0	2	56.96
13882	21	2783	8.7 K2	15 30 24.951	266.12	.16	21 13 1.76	-1217.2	15.7	2	57.79
13884	64	1075	8.9 G5	15 30 30.954	86.54	1.28	64 18 52.34	-1216.5	5.3	2	58.42
13891	13	2960	8.6 G5	15 30 56.416	282.26	.23	13 15 50.27	-1213.6	16.6	2	57.35
13896	69	801	8.0 K2	15 31 26.906	25.04	2.46	69 19 35.59	-1210.0	1.7	2	57.87
13907	53	1790	7.9 K5	15 32 13.934	164.32	.35	53 14 52.81	-1204.6	9.8	2	56.91
13909	0	3375	7.8 K0	15 32 15.786	307.29	.40	0 1 10.48	-1204.4	18.2	2	57.93
13910	18	3040	8.4 K5	15 32 21.777	271.77	.18	18 24 28.10	-1203.7	16.1	2	58.41
13926	- 2	4021	8.4 K2	15 33 36.742	311.73	.44	- 2 21 7.26	-1194.9	18.5	2	56.82
13927	35	2705	9.1 K0	15 33 42.465	231.49	.10	35 14 55.82	-1194.2	13.8	4	58.12
13928	50	2195	7.2 K5	15 33 44.606	180.04	.25	49 51 49.06	-1194.0	10.8	2	56.82
13931	28	2447	8.1 F8	15 33 55.347	248.84	.12	28 34 25.83	-1192.7	14.8	2	56.95
13933	45	2307	8.3 K2	15 34 0.405	197.59	.17	45 36 45.44	-1192.1	11.8	2	57.87
13951	- 0	2990	8.1 K2	15 34 54.404	308.68	.41	- 0 43 17.20	-1185.8	18.4	2	56.91
13967	79	470	8.4 G0	15 35 36.191	-267.50	13.37	79 21 46.57	-1180.9	-15.5	2	57.93
13968	7	2996	8.4 F0	15 35 37.186	292.95	.30	7 35 6.74	-1180.8	17.5	2	57.80
13975	6	3076	8.2 K0	15 36 12.092	295.19	.31	6 24 7.12	-1176.6	17.7	2	57.40
13983	63	1216	8.5 K0	15 36 35.328	94.96	1.10	62 58 48.14	-1173.9	5.9	2	58.42
13984	39	2895	9.0 K0	15 36 40.528	218.41	.12	39 22 43.32	-1173.3	13.2	2	58.34
13987	9	3080	8.7 G5	15 37 9.778	289.83	.28	9 9 31.52	-1169.8	17.4	2	57.88
13989	33	2611	9.0 K0	15 37 20.300	236.63	.11	33 4 25.63	-1168.6	14.3	2	57.90
13994	52	1890	8.4 K0	15 37 27.876	169.66	.31	51 43 51.84	-1167.7	10.3	2	57.43
13995	57	1598	7.5 K0	15 37 34.299	135.60	.60	57 40 55.72	-1166.9	8.3	2	58.46
14004	34	2674	8.0 K0	15 38 21.027	232.71	.11	34 25 14.21	-1161.4	14.1	2	56.34
14011	19	3002	8.6 A2	15 39 5.267	269.08	.18	19 18 33.07	-1156.1	16.3	2	57.33
14012	41	2622	8.5 G0	15 39 8.761	212.08	.14	41 6 20.20	-1155.7	12.9	2	57.82
14014	65	1069	7.9 K2	15 39 12.447	75.06	1.39	64 49 18.42	-1155.3	4.7	2	57.42
14017	- 0	3001	8.0 K0	15 39 46.770	309.71	.42	- 1 15 2.31	-1151.2	18.7	2	56.88
14032	75	574	8.6 K0	15 40 31.460	-114.53	6.22	75 25 57.88	-1145.8	-6.6	2	57.85
14033	27	2528	8.6 G5	15 40 37.344	251.45	.13	27 0 8.41	-1145.1	15.3	2	57.40

Position 1950 + T = Position 1950 + T (1st term) + T² (2nd term) + T' (P. M.).

T in centuries from 1900.0, T' in centuries from epoch.

No.	B. D. No.		M + Sp.	R.A. 1950	Precession		Decl. 1950	Precession		No. Obs.	Epoch 1900+
					1st Term	2nd Term		1st Term	2nd Term		
14041	2	2987	7.6 K0	15 41 15.057	302.34	.36	2 35 49.43	-1140.6	18.4	2	57.35
14044	55	1773	8.7 K0	15 41 22.842	152.13	.44	54 41 36.18	-1139.7	9.4	2	57.36
14047	13	2993	8.1 K5	15 41 33.718	281.99	.24	12 58 30.86	-1138.4	17.2	2	56.44
14049	- 2	4040	8.6 K2	15 41 44.225	312.82	.44	- 2 51 21.08	-1137.1	19.0	2	58.34
14052	48	2322	8.2 K0	15 41 51.139	185.40	.22	47 55 31.50	-1136.3	11.4	2	56.92
14068	67	915	8.7 K0	15 43 22.546	38.30	1.98	67 39 27.57	-1125.3	2.5	2	56.34
14070	24	2919	8.9 K2	15 43 28.608	257.50	.15	24 14 59.30	-1124.6	15.8	2	57.82
14075	6	3096	7.6 K2	15 43 45.987	295.17	.31	6 15 57.34	-1122.5	18.1	2	57.87
14077	- 3	3824	8.1 K5	15 43 53.118	314.88	.46	- 3 54 20.39	-1121.6	19.3	2	58.39
14078	53	1807	7.9 K0	15 43 57.510	161.24	.37	52 49 55.45	-1121.1	10.0	2	57.40
14085	55	1775	7.4 K5	15 44 15.874	146.59	.48	55 24 19.97	-1118.8	9.1	4	58.49
14091	- 4	3975	8.2 G5	15 44 43.837	316.97	.47	- 4 57 54.71	-1115.5	19.4	2	58.90
14098	27	2538	8.0 K2	15 45 6.652	249.77	.14	27 22 43.86	-1112.7	15.4	2	58.42
14100	19	3018	7.9 K2	15 45 11.142	269.12	.19	18 58 5.26	-1112.2	16.6	2	59.00
14108	35	2731	9.3 K0	15 45 36.074	228.98	.12	35 8 38.15	-1109.1	14.1	2	57.85
14114	74	630	7.7 K0	15 46 8.316	-81.13	4.86	73 59 22.33	-1105.2	-4.7	2	58.90
14127	10	2911	7.9 F0	15 46 56.457	287.16	.27	10 13 57.49	-1099.3	17.7	2	56.88
14128	7	3037	8.4 K0	15 47 2.739	292.34	.30	7 38 14.68	-1098.6	18.1	2	57.88
14130	25	2973	8.5 G5	15 47 26.120	253.69	.15	25 36 39.71	-1095.8	15.7	2	57.80
14131	49	2428	8.9 G5	15 47 27.605	179.34	.27	48 50 19.47	-1095.6	11.2	2	57.40
14139	81	531	6.9 K2	15 47 54.804	-406.92	19.47	81 5 7.98	-1092.2	-24.6	2	58.42
14141	21	2827	8.8 K0	15 48 15.913	263.38	.17	21 23 52.57	-1089.7	16.3	2	58.42
14142	47	2272	8.1 G5	15 48 17.128	184.41	.24	47 37 24.40	-1089.5	11.5	2	57.95
14145	63	1228	7.9 F0	15 48 24.177	84.33	1.16	63 17 36.10	-1088.6	5.4	2	58.42
14147	39	2922	8.5 K2	15 48 36.167	216.52	.14	38 58 17.72	-1087.2	13.5	2	58.82
14149	16	2835	8.3 K5	15 48 53.403	274.50	.21	16 17 20.19	-1085.1	17.1	2	57.38
14151	38	2708	7.6 K0	15 49 1.342	220.46	.14	37 42 9.43	-1084.1	13.7	2	57.86
14152	61	1543	8.2 K0	15 49 1.857	100.44	.95	61 29 18.15	-1084.0	6.4	4	59.12
14154	59	1682	8.6 K5	15 49 5.967	119.03	.73	59 9 47.09	-1083.5	7.5	2	58.90
14158	19	3024	8.2 K2	15 49 18.529	267.63	.18	19 26 17.79	-1082.0	16.6	2	58.47
14174	44	2516	8.6 K5	15 50 36.269	196.52	.19	44 28 10.01	-1072.4	12.3	2	56.87
14176	20	3163	8.9 K0	15 50 38.428	265.05	.18	20 31 44.83	-1072.1	16.5	2	57.36
14185	28	2487	8.1 K2	15 51 4.690	247.32	.14	27 57 42.55	-1068.9	15.5	2	57.82
14187	0	3423	8.4 K0	15 51 6.921	306.45	.38	0 26 40.12	-1068.6	19.1	2	57.41
14194	13	3027	8.7 K2	15 51 49.234	280.07	.23	13 31 49.56	-1063.4	17.5	2	58.90
14196	2	3020	7.7 K5	15 51 55.822	302.80	.35	2 17 19.58	-1062.6	18.9	2	57.95
14202	32	2642	8.3 A3	15 52 14.641	235.12	.13	32 29 19.43	-1060.3	14.8	2	56.35
14220	8	3108	8.2 K2	15 53 40.237	291.17	.29	8 4 52.45	-1049.7	18.3	2	56.87
14224	10	2927	7.5 K0	15 53 48.724	286.34	.27	10 26 30.96	-1048.6	18.0	2	57.42
14228	54	1780	8.2 K0	15 54 8.263	149.44	.45	54 10 34.21	-1046.2	9.5	2	57.82
14230	21	2851	8.4 K0	15 54 14.882	262.67	.17	21 23 24.64	-1045.4	16.6	2	57.89
14231	31	2799	7.9 M0	15 54 16.407	237.83	.14	31 21 58.61	-1045.2	15.0	2	56.95
14235	56	1844	8.1 K5	15 54 22.635	138.50	.53	55 57 41.56	-1044.4	8.8	2	58.39
14236	- 2	4077	8.4 A0	15 54 26.217	313.00	.42	- 2 50 42.54	-1044.0	19.7	2	58.41
14237	- 0	3040	7.7 K5	15 54 26.431	308.52	.39	- 0 36 6.14	-1043.9	19.4	2	58.41
14241	57	1620	8.2 F8	15 54 55.450	128.56	.62	57 25 36.10	-1040.3	8.2	2	57.88
14243	17	2938	7.7 G0	15 54 59.133	271.69	.20	17 19 44.87	-1039.9	17.2	2	57.42
14248	19	3042	8.7 K0	15 55 32.144	266.76	.19	19 31 33.04	-1035.7	16.9	2	57.39
14253	13	3037	7.9 K0	15 56 3.833	280.93	.24	12 58 39.02	-1031.8	17.8	2	57.88
14255	72	703	7.5 K0	15 56 8.590	-56.84	3.81	72 32 7.22	-1031.2	-3.3	2	57.86

Position 1950 + T = Position 1950 + T (1st term) + T² (2nd term) + T' (P. M.).

T in centuries from 1900.0, T' in centuries from epoch.

No.	B. D. No.	M + Sp.	R.A. 1950	Precession		Decl. 1950	Precession		No. Obs.	Epoch 1900+
				1st Term	2nd Term		1st Term	2nd Term		
14257	48 2346	8.8 K2	15 56 27.361	180.75	.26	47 49 34.31	-1028.8	11.5	2	57.82
14261	34 2716	8.6 K2	15 56 42.040	228.95	.14	34 20 3.44	-1027.0	14.5	2	56.41
14274	1 3154	7.4 K5	15 57 29.119	305.80	.37	0 45 50.22	-1021.2	19.4	3	58.64
14286	41 2655	8.5 K0	15 58 12.964	207.08	.17	41 1 59.04	-1015.6	13.2	2	56.37
14287	53 1832	7.8 K2	15 58 20.456	152.78	.42	53 17 34.16	-1014.7	9.8	2	57.40
14291	66 927	8.0 A3	15 58 31.015	46.01	1.63	66 11 42.78	-1013.3	3.1	2	56.87
14298	29 2752	7.7 G5	15 58 55.013	243.13	.15	29 5 15.54	-1010.3	15.5	2	56.42
14314	- 2 4094	8.1 K2	16 0 12.110	312.04	.40	- 2 19 57.45	-1000.6	19.9	2	56.90
14326	35 2762	8.0 K2	16 1 7.132	225.60	.15	35 9 20.92	-993.6	14.5	2	56.41
14329	47 2292	8.5 A5	16 1 19.289	183.40	.24	46 52 4.32	-992.1	11.8	2	56.89
14340	6 3149	7.6 K0	16 1 51.996	294.80	.30	6 8 50.88	-988.0	18.9	2	56.94
14345	60 1649	8.1 K0	16 2 6.939	100.94	.86	60 35 32.43	-986.1	6.6	2	56.95
14349	13 3062	8.5 K2	16 2 36.915	279.86	.24	13 16 16.83	-982.2	18.0	2	56.95
14362	42 2671	8.3 K0	16 3 42.169	201.58	.19	42 9 41.04	-973.9	13.0	2	57.36
14366	0 3455	8.5 K2	16 3 46.788	307.45	.37	- 0 3 41.32	-973.4	19.8	2	58.42
14369	44 2541	7.8 K0	16 3 49.681	195.10	.20	43 51 12.48	-973.0	12.6	2	57.52
14371	36 2689	7.4 G5	16 3 58.554	220.35	.15	36 39 44.17	-971.9	14.3	2	56.98
14375	45 2370	8.0 F0	16 4 20.854	187.77	.23	45 37 44.47	-969.0	12.2	2	58.41
14376	- 2 4111	8.6 A5	16 4 21.323	313.70	.41	- 3 7 9.41	-969.0	20.2	2	57.41
14378	- 3 3875	7.4 M0	16 4 23.462	314.98	.41	- 3 44 39.99	-968.7	20.3	3	58.11
14379	58 1615	8.5 K0	16 4 24.931	119.93	.66	58 1 29.92	-968.5	7.9	2	58.41
14381	62 1452	8.3 K0	16 4 33.529	82.92	1.05	62 27 33.03	-967.4	5.5	2	57.43
14385	3 3128	8.2 K0	16 4 59.537	300.08	.32	3 32 29.81	-964.1	19.4	2	57.94
14388	16 2885	7.8 K2	16 5 28.104	274.05	.21	15 50 33.53	-960.4	17.7	2	58.04
14397	83 468	7.3 G5	16 5 58.108	-729.65	36.76	83 32 24.55	-956.5	-46.5	2	57.80
14400	5 3147	7.9 K0	16 6 12.659	295.93	.31	5 32 13.17	-954.8	19.2	4	58.69
14403	7 3102	8.4 K5	16 6 20.455	293.36	.29	6 46 37.62	-953.7	19.0	2	58.41
14408	34 2741	8.4 G5	16 6 32.770	228.42	.15	33 51 50.77	-952.1	14.9	3	59.12
14423	11 2926	8.6 A0	16 7 23.287	284.44	.25	10 59 40.18	-945.7	18.5	2	58.90
14431	25 3039	7.2 K0	16 8 0.959	250.76	.16	25 37 1.70	-940.8	16.3	2	57.34
14432	53 1848	7.9 K2	16 8 5.992	150.53	.42	53 2 4.86	-940.2	9.9	2	57.40
14446	48 2369	7.4 K0	16 9 3.455	176.28	.28	47 56 8.66	-932.8	11.6	2	57.36
14450	21 2882	8.4 K0	16 9 14.249	261.75	.18	21 4 11.81	-931.4	17.1	2	56.40
14451	24 2977	8.6 K0	16 9 19.761	254.77	.17	23 56 52.11	-930.7	16.6	2	57.97
14452	67 928	8.7 G5	16 9 19.799	21.71	1.86	67 29 38.34	-930.7	1.6	2	57.90
14460	18 3138	8.6 G5	16 9 48.388	268.59	.20	18 6 20.01	-927.0	17.6	2	57.41
14477	46 2156	7.5 K0	16 11 10.870	184.18	.25	46 1 13.97	-916.3	12.1	2	56.95
14485	4 3140	8.2 G5	16 11 35.511	298.69	.31	4 9 11.20	-913.1	19.6	2	56.82
14486	16 2908	7.8 M0	16 11 36.256	271.96	.21	16 33 35.45	-913.0	17.8	2	57.39
14488	9 3169	8.4 F0	16 11 42.863	287.06	.26	9 39 58.10	-912.1	18.8	2	57.43
14492	0 3477	8.3 K2	16 12 21.568	307.61	.36	- 0 8 8.75	-907.1	20.2	2	57.94
14494	- 1 3159	8.4 G5	16 12 38.810	311.93	.38	- 2 12 38.23	-904.9	20.5	2	58.04
14498	22 2946	8.2 K0	16 12 43.724	257.96	.18	22 29 25.83	-904.2	17.0	2	56.41
14512	48 2380	8.6 K5	16 13 49.362	172.45	.29	48 27 7.54	-895.7	11.4	2	57.89
14514	81 543	7.9 G5	16 13 52.684	-471.23	18.18	81 16 14.41	-895.3	-30.5	2	58.88
14519	66 944	8.1 K0	16 14 14.717	32.16	1.62	66 30 2.49	-892.4	2.3	2	57.51
14523	20 3236	8.4 K0	16 14 39.328	263.92	.19	19 55 26.03	-889.2	17.4	2	56.36
14528	38 2747	7.7 K2	16 14 56.871	211.10	.17	38 46 1.48	-886.9	14.0	2	56.40
14534	61 1577	8.0 K0	16 15 26.029	90.82	.88	61 0 44.07	-883.0	6.1	2	57.43
14541	64 1117	8.3 K0	16 15 49.473	56.82	1.26	64 23 43.05	-880.0	3.9	4	57.95

Position 1950 + T = Position 1950 + T (1st term) + T² (2nd term) + T' (P. M.).

T in centuries from 1900.0, T' in centuries from epoch.

No.	B. D. No.	M + Sp.	R.A. 1950	Precession		Decl. 1950	Precession		No. Obs.	Epoch 1900+
				1st Term	2nd Term		1st Term	2nd Term		
14553	12 2993	8.1 G5	16 16 50.662	280.27	.23	12 40 35.62	-872.0	18.6	2	56.88
14564	- 2 4160	8.6 K0	16 17 21.915	313.44	.38	- 2 54 21.30	-867.9	20.8	2	57.36
14565	62 1470	7.1 K0	16 17 27.765	75.48	1.03	62 32 37.53	-867.1	5.1	2	57.96
14569	- 4 4095	8.6 K2	16 17 37.352	316.68	.40	- 4 26 20.52	-865.8	21.0	2	57.48
14576	55 1830	7.6 K5	16 18 11.932	135.59	.49	54 54 36.97	-861.3	9.1	2	57.35
14581	0 3503	8.2 K2	16 18 32.402	305.76	.34	0 44 43.64	-858.6	20.3	2	57.95
14583	40 3006	7.8 F2	16 18 34.533	204.65	.18	40 22 40.59	-858.3	13.7	2	56.98
14589	52 1961	8.0 K0	16 19 16.918	152.82	.38	51 57 7.65	-852.7	10.3	2	58.42
14590	29 2816	8.8 G0	16 19 22.394	239.98	.16	29 6 45.26	-852.0	16.0	2	57.87
14595	47 2333	9.0 G	16 19 38.037	178.38	.26	46 49 9.47	-849.9	12.0	4	58.25
14598	3 3173	7.5 K2	16 19 44.379	301.00	.32	2 59 31.38	-849.1	20.1	2	58.41
14604	10 2992	8.3 K5	16 20 0.921	285.92	.25	10 1 28.65	-846.9	19.1	2	57.96
14608	79 493	9.0 G5	16 20 20.802	-336.84	11.15	79 20 44.50	-844.3	-22.1	2	58.44
14619	73 717	8.9 K0	16 20 57.927	-96.98	3.82	73 17 43.20	-839.4	-6.2	2	58.44
14621	32 2717	7.5 K5	16 21 7.252	229.28	.16	32 44 30.85	-838.1	15.4	2	56.89
14649	28 2564	8.6 A5	16 22 44.050	242.94	.16	27 52 3.03	-825.3	16.3	2	56.95
14656	24 3003	7.5 K5	16 23 0.230	252.65	.17	24 10 10.75	-823.1	17.0	2	57.96
14672	23 2934	7.6 M0	16 24 10.201	255.05	.17	23 10 35.34	-813.8	17.2	2	56.96
14673	5 3203	8.2 K0	16 24 11.028	295.69	.28	5 26 44.03	-813.7	19.9	2	58.40
14674	76 606	7.7 K5	16 24 14.125	-203.65	6.34	76 33 31.58	-813.3	-13.4	2	57.97
14675	60 1676	8.1 A3	16 24 14.954	92.21	.81	60 24 56.94	-813.2	6.3	2	58.41
14687	34 2787	8.8 K2	16 25 11.285	223.99	.16	34 15 44.95	-805.7	15.1	2	57.42
14698	33 2733	7.2 K0	16 26 3.509	228.32	.16	32 48 33.88	-798.8	15.4	2	56.96
14700	15 3008	7.4 K0	16 26 7.434	273.25	.21	15 32 27.31	-798.2	18.4	2	57.35
14710	54 1814	8.3 K0	16 26 37.375	134.46	.47	54 38 14.73	-794.2	9.2	2	56.89
14714	40 3020	8.9 F8	16 26 50.393	204.76	.19	39 53 8.41	-792.4	13.9	2	56.96
14716	4 3191	7.8 G2	16 27 5.905	297.27	.29	4 41 4.15	-790.4	20.1	2	57.43
14721	35 2822	7.9 K5	16 27 22.527	218.91	.17	35 44 33.11	-788.1	14.8	2	58.48
14728	56 1892	8.2 K0	16 27 55.119	120.02	.56	56 42 47.36	-783.8	8.2	2	58.41
14734	20 3284	8.5 K2	16 28 29.826	262.43	.18	20 2 6.31	-779.1	17.8	2	57.43
14740	1 3246	7.5 K0	16 28 48.887	304.28	.31	1 24 53.08	-776.6	20.6	2	56.95
14745	37 2762	8.2 G0	16 28 57.445	212.33	.18	37 38 0.89	-775.4	14.4	2	57.83
14751	17 3041	8.3 K0	16 29 10.155	268.21	.20	17 36 22.94	-773.7	18.2	2	56.96
14759	42 2719	7.8 K0	16 29 53.538	195.15	.21	42 16 6.60	-767.9	13.3	4	57.71
14767	28 2581	7.5 K5	16 30 25.694	242.15	.16	27 48 50.90	-763.5	16.5	2	56.89
14773	23 2951	7.9 K0	16 31 2.622	254.26	.17	23 13 17.65	-758.5	17.3	2	56.98
14776	- 4 4128	8.1 K0	16 31 15.886	318.05	.37	- 4 57 6.67	-756.8	21.6	2	56.96
14777	- 3 3964	8.2 K0	16 31 20.252	315.30	.36	- 3 41 11.62	-756.2	21.4	4	58.66
14786	7 3207	8.3 A3	16 32 35.369	292.21	.26	6 57 6.63	-746.0	19.9	2	57.49
14792	54 1819	8.9 K0	16 32 46.465	136.35	.44	54 2 11.39	-744.5	9.4	2	57.97
14793	51 2115	7.9 G5	16 32 51.957	153.71	.35	51 4 18.18	-743.8	10.6	2	58.05
14794	59 1734	7.4 K0	16 33 0.998	94.26	.73	59 46 47.74	-742.6	6.5	2	58.49
14799	19 3127	8.1 K2	16 33 14.155	264.44	.19	19 3 28.47	-740.7	18.1	2	56.98
14802	32 2750	8.1 K5	16 33 28.582	229.53	.16	32 3 43.19	-738.8	15.7	2	57.49
14806	66 959	8.4 G5	16 33 34.175	26.23	1.41	66 9 27.49	-738.1	1.9	2	57.95
14814	30 2843	8.1 G5	16 33 56.127	236.00	.16	29 50 47.77	-735.1	16.2	2	57.90
14816	2 3140	8.7 G5	16 34 7.286	302.69	.30	2 8 2.21	-733.6	20.7	2	57.95
14831	36 2756	7.0 M0	16 34 43.342	216.42	.18	36 8 25.45	-728.6	14.9	2	57.43
14841	19 3135	8.1 K0	16 35 32.544	262.81	.18	19 39 21.39	-722.0	18.0	2	56.89
14851	- 0 3155	8.4 G5	16 36 16.703	308.93	.32	- 0 44 13.67	-716.0	21.2	2	57.48

Position 1950 + T = Position 1950 + T (1st term) + T² (2nd term) + T' (P. M.).

T in centuries from 1900.0, T' in centuries from epoch.

No.	B.D. No.	M + Sp.	R.A. 1950	Precession		Decl. 1950	Precession		No. Obs.	Epoch 1900+
				1st Term	2nd Term		1st Term	2nd Term		
14859	3 3240	8.2 K2	16 36 53.386	299.71	.28	3 29 22.48	-711.0	20.6	2	56.96
14862	46 2199	7.8 K0	16 37 3.602	175.68	.26	46 29 28.31	-709.6	12.1	2	56.89
14876	35 2848	8.3 K0	16 37 46.815	219.17	.17	35 10 8.43	-703.7	15.1	2	56.89
14885	44 2598	8.1 G5	16 38 52.805	185.77	.23	44 7 27.60	-694.7	12.8	2	56.50
14894	12 3064	8.6 K0	16 39 23.051	280.40	.22	12 7 1.37	-690.6	19.3	2	58.48
14898	56 1911	7.7 K0	16 39 37.259	119.44	.51	56 15 44.73	-688.6	8.3	2	57.05
14903	41 2740	8.4 G0	16 39 52.997	196.58	.20	41 25 3.82	-686.4	13.6	2	56.49
14907	0 3569	8.6 G0	16 40 18.562	306.96	.30	0 10 7.13	-683.0	21.2	2	57.88
14908	79 510	8.5 K0	16 40 20.755	-356.57	9.37	79 17 4.80	-682.7	-24.3	2	57.90
14910	- 3 3982	7.7 K5	16 40 34.182	316.24	.34	- 4 3 24.95	-680.8	21.8	2	56.95
14911	53 1883	8.1 K0	16 40 34.388	139.54	.40	53 9 59.01	-680.8	9.7	2	58.05
14912	11 3028	8.2 K5	16 40 36.197	282.82	.22	11 2 5.58	-680.5	19.5	2	58.04
14914	15 3040	7.8 K2	16 40 40.951	271.88	.20	15 44 51.03	-679.9	18.8	2	57.42
14920	6 3282	8.0 K0	16 41 12.412	292.53	.25	6 42 40.43	-675.5	20.2	2	57.03
14924	4 3242	8.2 K0	16 41 24.463	298.29	.27	4 6 41.32	-673.9	20.6	4	59.14
14925	7 3228	8.4 K0	16 41 24.946	290.51	.24	7 36 40.87	-673.8	20.1	2	59.00
14930	9 3259	8.2 K0	16 41 36.689	287.13	.23	9 6 48.29	-672.2	19.9	2	58.50
14938	32 2775	8.3 K5	16 42 22.367	228.84	.16	31 54 55.31	-666.0	15.9	2	57.96
14940	10 3058	8.1 K5	16 42 29.019	285.01	.23	10 2 34.33	-665.1	19.8	2	57.93
14941	17 3081	8.4 K0	16 42 30.248	268.47	.19	17 8 2.33	-664.9	18.6	2	58.93
14944	52 1994	8.1 K0	16 42 46.505	145.86	.36	52 0 40.89	-662.6	10.2	2	57.42
14950	48 2433	7.5 K5	16 43 13.588	165.42	.28	48 21 18.09	-658.9	11.5	2	57.94
14956	27 2681	8.4 K5	16 43 37.861	242.25	.16	27 16 0.73	-655.6	16.8	2	58.44
14965	65 1141	8.1 K0	16 43 57.526	32.31	1.19	65 19 41.06	-652.9	2.4	2	58.05
14969	46 2211	7.6 K0	16 44 23.733	175.81	.25	46 8 2.52	-649.3	12.3	2	56.96
14972	18 3237	8.3 K0	16 44 40.555	266.14	.19	18 2 16.71	-646.9	18.5	2	57.93
14973	58 1669	7.5 K2	16 44 47.202	98.93	.62	58 44 40.69	-646.0	7.0	2	58.07
14975	29 2881	8.4 F8	16 45 3.641	236.28	.16	29 18 48.47	-643.7	16.4	2	58.96
14979	1 3306	8.6 A3	16 45 26.207	304.45	.28	1 18 2.53	-640.6	21.2	2	58.02
14981	20 3332	8.0 K0	16 45 37.156	260.50	.18	20 17 33.11	-639.1	18.1	2	58.93
14982	9 3273	8.4 K0	16 45 39.026	287.44	.23	8 55 26.54	-638.9	20.0	3	59.45
14988	31 2908	8.6 K0	16 45 57.720	229.14	.16	31 40 37.98	-636.3	16.0	2	58.41
14996	6 3296	8.8 K5	16 46 19.616	292.20	.24	6 48 11.52	-633.2	20.3	2	57.94
15002	24 3060	8.9 K0	16 46 49.328	249.91	.17	24 20 56.99	-629.1	17.4	2	57.42
15005	5 3276	8.2 A0	16 47 2.409	295.22	.25	5 27 3.63	-627.3	20.6	2	56.44
15022	19 3175	8.8 M0	16 47 53.123	262.51	.18	19 25 49.87	-620.3	18.3	2	56.88
15034	12 3097	8.7 K0	16 48 48.046	278.93	.20	12 35 4.52	-612.7	19.5	2	58.97
15035	18 3256	7.5 K0	16 48 55.091	265.59	.18	18 9 40.00	-611.7	18.6	4	57.72
15039	48 2445	7.7 K0	16 49 29.096	163.76	.28	48 25 39.15	-607.0	11.5	2	56.44
15040	38 2848	8.5 K0	16 49 38.068	207.69	.18	38 2 8.61	-605.7	14.6	2	58.02
15041	51 2141	7.9 K0	16 49 40.820	148.83	.33	51 12 43.44	-605.3	10.5	2	57.03
15048	35 2878	7.7 K5	16 50 23.159	216.14	.17	35 34 17.40	-599.5	15.2	2	57.98
15050	21 2997	7.4 K5	16 50 31.165	258.23	.17	21 3 19.90	-598.3	18.1	2	58.03
15051	3 3298	8.0 G5	16 50 44.487	300.41	.26	3 6 7.73	-596.5	21.0	2	57.97
15076	- 3 4023	7.6 G5	16 51 48.489	316.45	.31	- 4 5 1.59	-587.6	22.2	2	56.96
15081	71 812	8.1 K0	16 52 8.331	-71.72	2.25	71 22 3.46	-584.8	-4.9	2	57.97
15087	0 3597	8.8 K2	16 52 51.249	306.94	.27	0 10 20.63	-578.8	21.5	2	57.96
15089	32 2810	8.6 K5	16 52 55.886	225.00	.16	32 45 35.79	-578.2	15.8	3	58.46
15090	- 2 4275	8.2 K0	16 52 59.114	312.63	.29	- 2 22 29.16	-577.7	21.9	4	58.76
15093	40 3072	7.8 K0	16 53 4.008	196.92	.19	40 47 17.00	-577.1	13.9	2	57.95

Position 1950 + T = Position 1950 + T (1st term) + T² (2nd term) + T' (P. M.).

T in centuries from 1900.0, T' in centuries from epoch.

No.	B. D. No.	M + Sp.	R.A. 1950	Precession		Decl. 1950	Precession		No. Obs.	Epoch 1900+
				1st Term	2nd Term		1st Term	2nd Term		
15094	37 2821	7.7 K5	16 53 15.995	209.47	.17	37 23 57.13	-575.4	14.7	2	58.99
15095	- 0 3203	8.8 G5	16 53 18.353	309.73	.28	- 1 4 27.03	-575.1	21.7	2	58.48
15099	23 3020	8.9 A5	16 53 22.949	251.81	.16	23 26 39.05	-574.4	17.7	2	58.42
15101	17 3125	8.4 K2	16 53 33.494	267.00	.18	17 28 53.81	-572.9	18.8	4	59.40
15103	40 3074	8.3 K5	16 53 41.978	200.12	.19	39 56 4.96	-571.8	14.1	2	57.97
15109	22 3035	8.4 A2	16 54 12.506	255.07	.17	22 11 4.76	-567.5	17.9	2	58.01
15115	13 3264	8.4 K2	16 54 42.468	277.63	.20	13 2 26.26	-563.3	19.5	2	57.95
15120	10 3102	8.2 K0	16 54 51.976	283.32	.21	10 36 14.56	-562.0	19.9	2	56.95
15125	65 1156	8.4 F2	16 55 7.586	32.10	1.03	65 0 25.50	-559.8	2.4	2	56.49
15128	32 2820	7.7 K0	16 55 19.408	226.17	.16	32 18 37.14	-558.1	15.9	2	57.06
15134	55 1890	8.7 K	16 55 39.268	119.97	.44	55 34 46.86	-555.4	8.5	2	57.96
15135	9 3299	8.3 F0	16 55 43.224	286.74	.21	9 6 29.21	-554.8	20.2	2	56.89
15137	43 2668	7.5 G5	16 55 48.997	184.36	.21	43 45 35.16	-554.0	13.0	2	57.97
15140	57 1718	9.0 F0	16 56 2.069	107.88	.50	57 13 5.87	-552.2	7.7	2	57.44
15148	33 2805	8.1 F8	16 56 22.034	221.38	.16	33 46 33.98	-549.4	15.6	2	56.49
15150	30 2911	8.0 G5	16 56 36.010	231.13	.16	30 39 38.03	-547.4	16.3	2	57.51
15159	8 3322	8.4 K2	16 57 10.609	289.02	.22	8 6 1.79	-542.5	20.4	2	56.96
15160	- 3 4040	7.5 K2	16 57 10.883	316.65	.29	- 4 8 50.69	-542.5	22.4	2	56.98
15169	78 573	7.6 K0	16 58 19.913	-300.50	5.93	78 2 6.46	-532.8	-21.0	2	57.49
15177	47 2419	8.8 A2	16 58 55.889	169.37	.24	46 56 38.72	-527.8	12.0	2	56.49
15197	54 1856	8.2 K0	17 0 41.064	125.12	.39	54 39 59.27	-513.0	8.9	2	57.43
15202	41 2784	7.9 F2	17 0 52.989	193.96	.19	41 15 55.96	-511.3	13.8	2	56.49
15206	29 2927	7.6 K2	17 1 5.575	234.07	.16	29 32 56.05	-509.5	16.6	4	58.68
15212	- 2 4294	7.8 K5	17 1 24.531	313.00	.27	- 2 30 53.80	-506.8	22.2	2	57.49
15213	51 2161	7.7 K0	17 1 25.615	147.61	.31	51 0 43.93	-506.7	10.5	2	57.42
15214	73 754	7.3 K2	17 1 28.440	-122.65	2.60	73 15 54.92	-506.3	-8.5	2	57.43
15217	16 3091	8.1 K0	17 1 39.378	270.02	.18	16 5 29.66	-504.7	19.2	2	56.95
15222	32 2844	8.2 M0	17 2 15.899	224.48	.16	32 37 45.70	-499.6	16.0	2	58.50
15227	45 2487	8.4 K0	17 2 27.213	175.54	.23	45 31 2.18	-498.0	12.5	2	58.07
15228	36 2823	7.7 K2	17 2 30.128	210.42	.17	36 49 16.24	-497.6	15.0	2	57.59
15231	14 3185	8.6 G5	17 2 46.172	275.15	.18	13 57 24.02	-495.3	19.5	2	58.49
15232	53 1915	7.7 K0	17 2 48.751	133.63	.35	53 17 56.00	-494.9	9.5	2	57.99
15234	3 3339	8.8 G5	17 3 1.276	300.77	.23	2 54 1.86	-493.2	21.4	2	57.94
15237	67 984	8.6 K0	17 3 11.637	-1.55	1.20	67 14 55.47	-491.7	.0	2	59.03
15242	25 3197	7.9 K0	17 3 39.147	245.31	.16	25 34 24.02	-487.8	17.4	2	58.89
15244	5 3323	8.0 G5	17 3 43.906	295.45	.22	5 14 4.37	-487.2	21.0	2	57.51
15246	71 823	8.5 K	17 3 48.644	-67.04	1.83	70 54 6.31	-486.5	-4.6	2	57.91
15258	7 3304	8.5 K2	17 4 19.435	290.68	.21	7 18 57.96	-482.1	20.7	2	58.03
15271	- 4 4233	8.2 K0	17 5 23.388	317.01	.27	- 4 15 49.68	-473.1	22.6	4	58.43
15274	60 1735	7.8 K0	17 5 43.441	75.86	.61	60 42 3.95	-470.2	5.5	2	57.03
15275	65 1168	7.9 G5	17 5 50.156	28.69	.91	65 0 18.11	-469.3	2.1	4	58.43
15281	42 2800	9.0 F2	17 6 28.299	189.61	.19	42 9 48.50	-463.9	13.5	2	57.05
15284	44 2659	7.8 K2	17 6 30.318	180.77	.21	44 13 58.47	-463.6	12.9	2	57.49
15286	12 3159	8.4 K5	17 6 36.881	277.97	.18	12 43 32.26	-462.7	19.8	2	57.94
15292	0 3646	8.4 G5	17 7 9.668	305.94	.23	0 36 37.81	-458.0	21.8	2	57.97
15296	47 2435	8.5 A3	17 7 21.419	164.33	.24	47 42 6.65	-456.3	11.8	2	58.50
15308	29 2951	7.8 M0	17 8 29.191	234.45	.15	29 13 42.04	-446.7	16.8	2	56.89
15319	39 3083	8.4 K2	17 9 17.687	201.24	.17	39 8 19.64	-439.8	14.4	2	56.94
15322	6 3365	8.7 A3	17 9 23.902	293.71	.20	5 57 42.20	-438.9	21.0	2	57.03
15326	2 3266	8.4 G0	17 9 50.510	302.35	.22	2 10 59.21	-435.1	21.6	2	59.42

Position 1950 + T = Position 1950 + T (1st term) + T² (2nd term) + T' (P. M.).

T in centuries from 1900. 0, T' in centuries from epoch.

No.	B. D. No.		M + Sp.	R.A. 1950	Precession		Decl. 1950	Precession		No. Obs.	Epoch 1900+
					1st Term	2nd Term		1st Term	2nd Term		
15333	48	2489	8.6 K0	17 10 10.150	158.08	.25	48 50 20.80	-432.3	11.3	2	57.97
15350	61	1645	7.9 F2	17 11 8.495	63.08	.63	61 52 4.78	-424.0	4.6	2	56.89
15355	5	3353	8.2 K0	17 11 30.377	295.95	.20	4 58 38.59	-420.9	21.2	2	56.50
15363	14	3205	8.5 K7	17 11 58.600	273.87	.17	14 21 23.90	-416.9	19.6	2	57.56
15374	17	3201	7.7 K5	17 12 55.150	265.19	.16	17 51 25.52	-408.9	19.0	2	57.52
15377	15	3141	8.5 K0	17 13 9.404	272.35	.17	14 57 59.86	-406.8	19.5	2	56.97
15381	30	2956	7.8 G5	17 13 18.026	230.69	.15	30 21 23.35	-405.6	16.6	2	56.96
15416	37	2863	8.6 G0	17 15 27.785	206.13	.16	37 39 48.85	-387.1	14.8	3	58.12
15420	49	2614	7.1 K2	17 15 32.023	152.49	.25	49 44 37.84	-386.4	11.0	2	56.96
15431	- 4	4262	8.4 K5	17 16 18.666	317.09	.23	- 4 15 22.79	-379.8	22.8	2	56.98
15433	27	2787	7.6 K0	17 16 24.192	240.51	.15	26 59 18.88	-379.0	17.3	2	56.96
15437	- 2	4332	7.2 K0	17 16 44.385	313.52	.23	- 2 41 54.17	-376.1	22.5	3	59.84
15448	- 0	3265	8.0 K5	17 17 26.021	307.96	.21	- 0 16 32.68	-370.1	22.1	2	58.91
15449	22	3120	8.0 K2	17 17 28.442	254.29	.15	21 59 34.73	-369.7	18.3	2	56.99
15455	4	3396	8.7 K0	17 17 45.726	297.42	.19	4 18 41.57	-367.3	21.4	2	57.49
15462	17	3225	7.9 K2	17 18 32.222	266.92	.16	17 5 19.55	-360.6	19.2	2	56.96
15464	61	1652	7.2 K5	17 18 38.114	62.10	.56	61 48 26.31	-359.8	4.5	2	57.52
15472	62	1540	8.3 A2	17 19 14.142	52.88	.60	62 40 4.36	-354.6	3.9	2	57.49
15479	9	3372	7.4 K0	17 19 28.089	284.64	.17	9 47 0.84	-352.6	20.5	2	56.93
15484	59	1804	8.3 A2	17 19 43.853	86.22	.45	59 14 50.05	-350.4	6.3	3	56.74
15521	37	2881	7.3 K0	17 22 26.945	208.11	.15	36 58 1.39	-326.9	15.0	3	56.46
15540	45	2531	8.4 K0	17 23 11.744	173.60	.19	45 23 45.22	-320.5	12.6	2	57.42
15559	25	3264	8.9 K2	17 24 5.756	243.91	.14	25 39 51.60	-312.7	17.6	2	56.98
15561	- 0	3285	8.4 K0	17 24 11.706	307.66	.19	- 0 8 34.84	-311.8	22.2	2	57.51
15562	24	3184	8.4 K2	17 24 15.413	247.62	.14	24 20 23.00	-311.3	17.9	2	57.57
15565	- 2	4357	8.2 K2	17 24 40.470	312.75	.20	- 2 21 6.12	-307.7	22.6	2	58.04
15570	- 3	4105	8.4 K2	17 25 6.548	314.44	.20	- 3 5 4.47	-303.9	22.7	2	57.96
15574	73	772	8.2 K0	17 25 21.133	-124.14	1.61	72 58 41.31	-301.9	-8.9	2	57.49
15583	13	3382	8.8 F5	17 26 5.557	274.71	.15	13 51 56.14	-295.5	19.9	2	57.52
15589	9	3399	8.6 F8	17 26 11.528	284.59	.16	9 45 42.01	-294.6	20.6	2	57.95
15594	1	3440	8.1 B9	17 26 39.734	305.08	.18	0 58 25.92	-290.5	22.1	2	56.49
15599	11	3188	8.3 K5	17 27 6.435	279.84	.15	11 44 34.85	-286.7	20.2	2	58.98
15601	41	2839	7.7 K5	17 27 14.747	190.57	.16	41 26 17.38	-285.5	13.8	2	57.42
15603	10	3219	8.5 K0	17 27 19.666	283.05	.16	10 24 8.57	-284.8	20.5	2	57.06
15611	22	3157	7.4 K0	17 28 11.718	253.67	.14	22 4 21.00	-277.2	18.4	2	56.93
15612	77	661	8.7 G5	17 28 14.933	-273.03	2.82	77 9 16.90	-276.8	-19.6	2	56.98
15613	29	3033	8.0 K0	17 28 18.389	232.32	.14	29 32 41.07	-276.3	16.8	2	57.95
15619	45	2540	8.3 K0	17 28 45.266	171.77	.19	45 40 50.54	-272.4	12.5	2	57.49
15628	59	1823	7.9 K0	17 29 20.956	80.47	.39	59 43 32.54	-267.3	5.9	2	57.58
15629	2	3340	8.5 K0	17 29 22.220	302.03	.17	2 17 18.85	-267.1	21.9	2	58.91
15637	40	3162	8.4 A2	17 30 8.017	196.12	.16	40 0 35.19	-260.5	14.2	2	57.52
15649	23	3131	8.9 F5	17 30 43.346	250.19	.14	23 19 20.63	-255.3	18.1	2	56.95
15657	7	3400	7.8 F2	17 31 7.753	290.55	.16	7 12 42.26	-251.8	21.1	2	56.50
15658	32	2941	8.2 A2	17 31 12.024	224.48	.14	32 0 10.83	-251.2	16.3	2	57.05
15660	52	2067	8.0 K0	17 31 24.038	136.85	.24	52 7 42.14	-249.5	10.0	2	57.58
15661	64	1204	7.5 K2	17 31 25.100	28.80	.55	64 32 42.91	-249.3	2.1	2	57.97
15665	21	3153	8.0 K5	17 31 47.491	254.83	.14	21 35 52.94	-246.1	18.5	2	57.98
15674	4	3448	7.8 K0	17 32 9.515	297.75	.16	4 7 52.72	-242.9	21.6	2	58.94
15676	10	3246	8.0 A2	17 32 30.185	283.24	.15	10 17 30.74	-239.9	20.5	2	58.05
15682	43	2763	8.1 M0	17 32 59.654	181.26	.17	43 31 57.45	-235.6	13.2	2	57.49

Position 1950 + T = Position 1950 + T (1st term) + T² (2nd term) + T' (P. M.).

T in centuries from 1900.0, T' in centuries from epoch.

No.	B.D. No.	M + Sp.	R.A. 1950	Precession		Decl. 1950	Precession		No. Obs.	Epoch 1900+
				1st Term	2nd Term		1st Term	2nd Term		
15683	71 847	8.1 K5	17 33 1.101	-91.99	1.10	71 37 7.82	-235.4	-6.6	2	58.05
15694	1 3467	8.2 K0	17 33 48.247	304.37	.16	1 16 35.35	-228.6	22.1	2	57.49
15697	66 1034	8.2 G5	17 34 1.885	.69	.62	66 35 23.43	-226.6	.1	2	57.48
15699	38 2966	8.5 K0	17 34 11.833	203.44	.15	38 2 32.52	-225.2	14.8	2	57.45
15707	11 3210	8.1 K2	17 34 43.089	279.86	.14	11 41 4.50	-220.6	20.3	2	56.50
15710	14 3289	7.5 K0	17 34 46.248	272.04	.14	14 52 50.84	-220.2	19.8	2	56.96
15712	19 3381	8.5 A2	17 34 56.459	260.66	.13	19 21 33.66	-218.7	18.9	2	57.99
15720	31 3062	8.1 G5	17 35 25.616	226.81	.13	31 13 7.91	-214.5	16.5	2	56.95
15724	69 929	8.4 K2	17 35 45.966	-51.17	.80	69 39 48.44	-211.5	-3.7	4	58.44
15730	12 3267	7.5 K0	17 36 6.579	277.22	.14	12 45 52.48	-208.6	20.1	2	57.43
15742	26 3053	8.5 A2	17 36 42.802	240.90	.13	26 33 13.37	-203.3	17.5	2	57.97
15743	68 945	7.4 K5	17 36 44.799	-30.44	.69	68 31 2.63	-203.0	-2.2	2	57.49
15753	7 3434	7.1 K0	17 37 31.407	289.05	.14	7 49 37.68	-196.2	21.0	2	56.51
15760	6 3490	7.4 K2	17 37 53.864	291.96	.15	6 35 25.00	-192.9	21.2	2	57.40
15764	34 3019	8.3 G5	17 38 36.220	216.78	.13	34 14 24.50	-186.8	15.8	2	57.06
15771	35 3040	8.2 K0	17 39 27.799	211.48	.14	35 45 42.88	-179.4	15.4	2	57.13
15773	28 2803	7.9 K0	17 39 37.671	235.85	.13	28 14 11.72	-177.9	17.2	2	56.98
15777	21 3189	8.9 K0	17 39 47.117	255.83	.13	21 9 8.09	-176.6	18.6	2	57.97
15784	70 949	8.2 K5	17 40 6.049	-71.98	.77	70 39 43.47	-173.8	-5.2	2	57.01
15786	23 3162	8.8 K0	17 40 16.259	249.46	.13	23 29 35.82	-172.3	18.1	2	57.42
15789	50 2449	7.5 K0	17 40 34.066	145.77	.19	50 30 31.52	-169.7	10.6	2	56.98
15793	10 3272	8.3 A2	17 40 45.403	282.93	.13	10 23 4.09	-168.1	20.6	2	58.49
15800	18 3445	8.2 K2	17 41 7.415	261.88	.13	18 50 43.82	-164.9	19.1	2	56.47
15805	27 2877	7.1 K2	17 41 27.444	239.34	.13	27 2 39.12	-162.0	17.4	2	57.06
15806	4 3493	8.0 K5	17 41 28.088	297.19	.14	4 21 13.81	-161.9	21.6	2	57.43
15815	- 1 3386	8.2 K2	17 42 5.977	311.33	.15	- 1 43 11.47	-156.4	22.7	2	57.98
15830	22 3205	8.6 G5	17 43 21.500	252.55	.12	22 20 39.87	-145.4	18.4	2	57.49
15831	49 2685	8.6 K2	17 43 21.626	152.66	.17	49 15 5.27	-145.4	11.1	2	57.50
15833	30 2052	7.9 K0	17 43 27.179	228.61	.13	30 34 7.25	-144.6	16.6	2	58.49
15834	42 2909	8.3 K0	17 43 35.699	184.75	.15	42 36 24.87	-143.3	13.5	2	57.49
15835	39 3215	8.0 K2	17 43 46.676	197.92	.14	39 22 50.80	-141.7	14.4	2	58.57
15840	- 3 4172	8.6 A3	17 44 3.252	316.73	.14	- 4 2 7.83	-139.3	23.1	2	59.02
15843	75 640	7.7 K2	17 44 22.503	-210.34	1.18	75 33 33.62	-136.5	-15.3	2	58.07
15846	17 3332	8.4 K2	17 44 43.882	264.25	.12	17 54 19.16	-133.4	19.2	2	57.57
15865	- 0 3361	7.6 K5	17 45 41.155	309.66	.13	- 1 0 2.53	-125.1	22.6	2	57.49
15871	80 555	7.1 M0	17 46 7.584	-473.06	2.45	80 18 5.66	-121.2	-34.4	2	57.44
15873	32 2987	8.4 K0	17 46 10.141	221.80	.12	32 40 16.24	-120.9	16.2	2	57.49
15875	67 1036	8.3 K5	17 46 17.090	-16.99	.44	67 38 41.53	-119.9	-1.2	2	58.50
15909	56 2024	7.3 K5	17 48 42.242	103.07	.21	56 50 25.40	-98.7	7.5	2	57.05
15917	54 1917	8.3 G0	17 49 17.858	118.54	.19	54 44 24.22	-93.6	8.6	2	57.56
15918	38 3011	7.5 G5	17 49 26.935	201.33	.13	38 27 15.07	-92.2	14.7	2	57.44
15939	- 2 4480	8.2 K0	17 50 22.956	312.56	.12	- 2 14 50.81	-84.1	22.8	2	57.42
15954	14 3360	8.6 F0	17 51 7.843	272.03	.11	14 48 23.67	-77.5	19.8	2	58.04
15960	9 3505	8.1 K5	17 51 32.127	284.28	.11	9 47 38.93	-74.0	20.7	3	57.81
15963	23 3207	8.7 K2	17 51 32.339	250.29	.11	23 7 48.82	-74.0	18.2	2	57.10
15976	52 2110	8.2 F2	17 52 20.368	133.96	.16	52 23 38.76	-67.0	9.8	2	57.96
15977	42 2951	7.2 K0	17 52 29.076	184.29	.13	42 39 19.15	-65.7	13.4	2	59.03
15980	12 3324	8.0 K2	17 52 32.419	277.27	.12	12 41 7.26	-65.2	20.2	2	58.06
15986	66 1057	7.7 K0	17 52 55.253	1.23	.28	66 25 38.97	-61.9	.1	2	58.06
15989	45 2620	7.8 G5	17 53 14.197	171.13	.14	45 33 40.26	-59.2	12.5	2	57.50

Position 1950 + T = Position 1950 + T (1st term) + T² (2nd term) + T' (P. M.).

T in centuries from 1900.0, T' in centuries from epoch.

No.	B. D. No.	M + Sp.	R.A. 1950	Precession		Decl. 1950	Precession		No. Obs.	Epoch 1900+
				1st Term	2nd Term		1st Term	2nd Term		
15995	6 3576	8.0 K5	17 54 14.745	291.29	.11	6 50 45.15	-50.3	21.2	2	57.12
15999	32 3010	7.8 K2	17 54 34.950	223.23	.12	32 11 31.91	-47.4	16.3	2	56.88
16004	85 294	7.6 F0	17 54 58.331	1462.55	5.04	85 41 1.49	-43.9	-106.6	2	58.05
16021	47 2563	8.1 K0	17 55 49.007	162.90	.13	47 13 49.83	-36.6	11.9	2	58.91
16028	- 0 3393	8.8 K5	17 56 5.060	308.68	.10	- 0 34 43.15	-34.2	22.5	2	57.14
16030	14 3375	7.9 M0	17 56 6.434	272.49	.11	14 37 2.50	-34.0	19.9	2	57.96
16032	38 3045	8.2 K0	17 56 12.686	202.62	.12	38 5 15.70	-33.1	14.8	2	57.51
16037	54 1925	7.1 K5	17 56 31.792	118.85	.15	54 40 9.17	-30.3	8.7	2	58.05
16038	40 3254	8.6 F8	17 56 33.004	194.76	.12	40 6 56.12	-30.2	14.2	2	58.07
16053	49 2716	8.2 K5	17 57 43.691	152.19	.13	49 15 46.30	-19.9	11.1	2	57.52
16059	56 2044	8.3 K2	17 58 20.097	103.53	.15	56 44 59.76	-14.6	7.5	2	57.89
16066	63 1396	7.2 K5	17 58 45.959	33.87	.17	63 57 32.30	-10.8	2.5	2	57.01
16070	0 3837	8.0 G5	17 58 57.620	307.08	.10	0 6 15.66	-9.1	22.4	2	57.51
16072	41 2955	8.4 K0	17 59 14.049	189.20	.12	41 28 47.09	-6.7	13.8	2	57.06
16076	30 3106	6.8 K5	17 59 30.386	228.17	.11	30 38 40.00	-4.3	16.7	2	57.56
16077	39 3300	8.2 K0	17 59 30.500	199.02	.12	39 1 40.99	-4.3	14.5	2	57.43
16079	20 3642	8.4 F0	17 59 42.787	258.31	.10	20 8 37.45	-2.5	18.8	2	57.52
16086	71 864	7.5 K2	18 0 24.331	-95.13	.16	71 38 1.53	3.5	-6.9	2	57.42
16087	24 3311	8.0 K2	18 0 26.633	245.04	.11	24 59 30.27	3.9	17.9	2	57.12
16097	17 3418	8.2 K0	18 1 3.164	264.93	.10	17 36 19.35	9.2	19.3	2	58.05
16118	21 3292	8.9 K0	18 2 26.843	254.06	.10	21 44 6.57	21.4	18.5	2	56.96
16120	5 3599	8.6 A2	18 2 41.734	293.75	.09	5 48 2.66	23.6	21.4	2	57.07
16121	82 537	8.7 K0	18 2 44.792	-705.69	-.46	82 29 11.94	24.0	-51.4	2	57.13
16128	42 2996	7.1 K0	18 2 58.069	183.36	.11	42 51 21.87	26.0	13.4	2	57.52
16129	29 3180	7.0 K0	18 3 2.434	233.03	.11	29 4 34.38	26.6	17.0	2	57.06
16131	15 3354	7.6 K5	18 3 3.585	269.92	.10	15 38 31.64	26.8	19.7	2	57.06
16132	37 3008	7.7 G5	18 3 7.355	203.58	.11	37 49 45.25	27.3	14.8	2	58.49
16136	79 569	8.4 K0	18 3 10.994	-435.66	-.20	79 48 21.74	27.9	-31.8	2	57.48
16139	64 1242	7.5 K2	18 3 20.413	22.63	.10	64 51 36.25	29.2	1.6	2	58.12
16141	13 3514	8.1 K0	18 3 26.913	275.31	.10	13 28 39.98	30.2	20.1	2	57.98
16143	10 3385	8.8 K0	18 3 33.568	282.72	.09	10 26 12.68	31.1	20.6	2	58.54
16157	54 1940	8.0 K2	18 4 32.137	119.98	.11	54 30 29.13	39.7	8.7	2	58.56
16161	62 1596	7.8 K0	18 5 4.031	52.77	.09	62 18 37.72	44.3	3.8	2	56.49
16164	48 2639	8.8 K2	18 5 9.729	155.86	.11	48 35 21.05	45.2	11.3	2	58.05
16169	3 3597	8.6 K0	18 5 20.395	298.72	.08	3 41 11.01	46.7	21.8	2	57.06
16181	- 4 4405	8.0 K2	18 5 58.059	317.72	.07	- 4 26 56.83	52.2	23.1	2	57.52
16183	0 3859	8.4 K2	18 6 3.819	305.68	.08	0 42 26.92	53.0	22.3	2	57.51
16198	47 2589	8.5 K0	18 7 28.657	163.56	.11	47 6 36.02	65.4	11.9	2	56.40
16205	7 3578	7.4 K2	18 8 12.699	289.45	.08	7 37 26.07	71.8	21.1	2	57.07
16211	29 3195	8.1 G5	18 8 37.716	233.11	.10	29 4 4.14	75.4	17.0	2	56.98
16219	18 3586	8.0 A0	18 9 22.005	263.14	.09	18 18 41.12	81.9	19.1	2	57.51
16224	27 2975	8.5 K0	18 9 45.717	238.21	.10	27 22 27.00	85.3	17.3	2	56.50
16225	72 829	7.7 F5	18 9 46.323	-107.01	-.18	72 8 28.88	85.4	-7.8	2	58.02
16227	77 681	7.8 K0	18 9 54.557	-298.95	-.67	77 34 57.71	86.6	-21.8	2	56.96
16231	61 1728	8.1 K0	18 10 13.325	64.80	.05	61 10 19.44	89.4	4.7	2	57.11
16234	86 275	7.7 K0	18 10 19.897	1910.25	-14.52	86 33 19.87	90.4	-139.1	2	57.97
16240	4 3652	8.4 K2	18 10 38.282	297.81	.07	4 4 36.33	93.0	21.7	2	58.12
16244	37 3043	8.1 K5	18 10 44.534	204.37	.10	37 38 42.89	93.9	14.9	2	56.47
16249	52 2159	8.5 M0	18 11 6.249	136.21	.09	52 2 52.47	97.1	9.9	2	57.51
16250	0 3883	8.0 K0	18 11 10.421	305.77	.06	0 40 11.80	97.7	22.2	2	57.06

Position 1950 + T = Position 1950 + T (1st term) + T² (2nd term) + T' (P. M.).

T in centuries from 1900.0, T' in centuries from epoch.

No.	B. D. No.	M + Sp.	R. A. 1950	Precession		Decl. 1950	Precession		No. Obs.	Epoch 1900+
				1st Term	2nd Term		1st Term	2nd Term		
16251	13 3564	8.0 K2	18 11 16.817	274.97	.08	13 37 39.47	98.6	20.0	2	57.58
16253	40 3314	8.4 M0	18 11 19.569	191.78	.10	40 53 10.19	99.0	13.9	2	58.03
16259	5 3656	8.1 A2	18 11 59.200	293.56	.07	5 53 26.72	104.8	21.3	2	57.42
16261	45 2679	7.5 K0	18 12 9.549	170.83	.10	45 39 2.86	106.3	12.4	2	58.14
16263	42 3030	8.1 F0	18 12 9.998	183.50	.10	42 51 48.88	106.4	13.3	2	57.59
16267	63 1415	8.2 F8	18 12 30.992	38.73	-.01	63 35 6.44	109.4	2.8	2	57.58
16271	36 3064	7.7 K5	18 13 6.667	209.11	.10	36 21 44.43	114.6	15.2	2	57.57
16273	74 757	7.6 K5	18 13 29.986	-167.79	-.50	74 19 6.02	118.0	-12.2	2	58.02
16274	15 3415	8.5 F8	18 13 37.949	270.77	.08	15 19 37.24	119.1	19.7	4	57.85
16277	25 3475	8.3 K0	18 13 44.267	242.92	.09	25 46 33.95	120.1	17.6	2	57.53
16305	36 3079	7.7 K2	18 14 59.167	206.83	.10	37 0 27.73	131.0	15.0	2	57.96
16307	48 2668	7.7 K5	18 15 6.073	157.42	.09	48 20 58.20	132.0	11.4	2	57.48
16309	8 3636	8.5 K0	18 15 11.029	286.99	.07	8 40 24.69	132.7	20.8	2	57.49
16324	- 4 4438	7.5 K0	18 16 20.635	316.94	.04	- 4 7 36.40	142.8	23.0	2	57.52
16334	69 973	8.3 F5	18 17 7.322	-52.67	-.28	69 41 21.04	149.6	-3.9	2	57.56
16337	40 3340	8.0 G0	18 17 28.152	191.90	.09	40 54 17.36	152.6	13.9	2	57.06
16342	31 3239	7.9 A0	18 17 55.475	226.90	.09	31 7 18.28	156.6	16.5	2	57.61
16346	39 3385	8.1 K5	18 18 10.221	197.24	.09	39 34 20.45	158.7	14.3	2	58.06
16348	52 2184	6.8 K5	18 18 11.658	132.93	.06	52 37 45.35	158.9	9.6	2	58.59
16350	10 3479	8.0 K5	18 18 14.321	283.65	.06	10 4 48.93	159.3	20.6	2	57.53
16351	55 2054	8.5 G5	18 18 16.560	113.02	.04	55 34 12.95	159.6	8.2	2	59.00
16361	80 577	8.8 A2	18 18 55.111	-494.36	-2.92	80 34 8.74	165.3	-35.9	2	58.02
16365	46 2464	8.1 K0	18 19 29.009	164.69	.08	46 58 23.82	170.2	11.9	2	57.98
16368	61 1741	8.3 K0	18 19 45.737	63.09	-.05	61 24 25.86	172.6	4.5	4	58.76
16370	66 1100	8.0 K2	18 19 47.962	-2.68	-.20	66 45 40.59	172.9	-.2	2	57.60
16376	64 1263	7.4 K0	18 20 3.405	32.25	-.12	64 10 41.55	175.2	2.3	2	59.04
16380	42 3065	7.6 K2	18 20 26.190	186.38	.09	42 15 48.49	178.5	13.5	2	57.04
16381	12 3499	8.8 K0	18 20 39.588	278.89	.06	12 3 50.19	180.4	20.2	2	56.50
16390	43 2962	7.8 G5	18 21 22.356	179.28	.08	43 54 19.53	186.6	13.0	2	56.47
16392	25 3510	8.9 K0	18 21 32.431	243.76	.09	25 32 20.63	188.1	17.7	2	57.50
16396	38 3157	7.5 K5	18 21 42.187	202.37	.09	38 16 30.29	189.5	14.6	2	58.06
16398	17 3565	8.8 M0	18 21 42.608	266.13	.07	17 12 26.40	189.6	19.3	2	58.04
16403	- 3 4279	8.4 A2	18 21 58.243	314.49	.02	- 3 4 59.95	191.8	22.8	2	57.97
16407	13 3632	8.0 K2	18 22 13.871	274.96	.07	13 40 41.89	194.1	19.9	2	57.03
16413	9 3699	8.0 K5	18 22 35.553	284.58	.06	9 42 24.68	197.3	20.6	2	57.50
16420	75 667	8.7 A0	18 22 59.267	-207.55	-1.22	75 31 19.26	200.7	-15.1	2	58.02
16427	41 3051	8.4 K5	18 23 55.500	190.65	.08	41 17 2.82	208.9	13.8	2	57.53
16432	33 3099	8.0 F5	18 24 8.514	220.64	.09	33 7 10.79	210.7	15.9	2	57.58
16433	26 3253	8.5 K5	18 24 8.992	240.16	.08	26 48 52.09	210.8	17.4	2	57.51
16434	19 3643	8.3 K5	18 24 10.905	261.18	.07	19 9 3.05	211.1	18.9	2	57.48
16439	24 3416	8.4 K0	18 24 30.963	247.23	.08	24 20 20.89	214.0	17.9	2	58.05
16446	30 3206	7.1 K0	18 24 57.201	227.72	.09	30 56 11.84	217.8	16.4	2	57.03
16459	59 1898	7.2 K0	18 25 58.400	80.37	-.07	59 40 25.87	226.7	5.8	4	58.48
16464	70 998	8.4 A0	18 26 21.368	-65.23	-.59	70 23 24.42	230.0	-4.8	2	57.48
16469	14 3546	7.6 K2	18 26 36.657	271.88	.06	14 57 20.83	232.2	19.6	2	57.52
16470	77 696	7.3 K0	18 26 36.694	-292.81	-2.13	77 31 48.89	232.2	-21.2	2	58.02
16473	39 3428	8.2 K0	18 26 40.618	196.11	.08	39 57 49.09	232.8	14.1	2	57.03
16478	37 3130	8.0 A2	18 26 58.920	206.54	.08	37 13 6.91	235.4	14.9	2	57.97
16486	57 1874	8.1 G5	18 27 16.288	95.92	-.04	57 53 19.32	237.9	6.9	2	57.05
16498	15 3483	7.1 K0	18 27 44.573	269.52	.06	15 54 34.28	242.0	19.5	4	58.51

Position 1950 + T = Position 1950 + T (1st term) + T² (2nd term) + T' (P. M.).

T in centuries from 1900.0, T' in centuries from epoch.

No.	B.D. No.	M + Sp.	R.A. 1950	Precession		Decl. 1950	Precession		No. Obs.	Epoch 1900+
				1st Term	2nd Term		1st Term	2nd Term		
16501	21 3459	7.3 F8	18 28 8.994	254.20	.07	21 49 53.22	245.6	18.3	2	58.06
16509	13 3667	8.4 K0	18 28 54.650	276.37	.06	13 8 45.34	252.2	19.9	2	59.03
16513	25 3551	7.8 M0	18 29 6.937	245.17	.08	25 7 36.51	253.9	17.7	2	56.94
16528	40 3403	8.1 K0	18 29 56.831	194.85	.08	40 19 52.70	261.1	14.0	2	56.57
16530	0 3960	8.6 F5	18 30 7.958	306.08	.01	0 32 21.80	262.8	22.1	2	57.51
16537	1 3711	8.6 K0	18 30 43.178	303.15	.01	1 48 29.54	267.8	21.8	4	58.76
16541	8 3743	8.8 K5	18 31 3.204	286.23	.04	9 3 10.40	270.7	20.6	3	58.15
16547	4 3791	8.0 K0	18 31 12.131	296.78	.02	4 33 11.17	272.0	21.4	2	57.48
16553	76 694	7.8 K0	18 31 21.102	-231.14	-1.95	76 11 21.05	273.3	-16.7	2	58.10
16567	15 3511	8.4 M2	18 32 19.081	271.41	.05	15 11 19.89	281.7	19.5	2	56.57
16584	27 3053	7.8 K0	18 33 46.215	239.49	.08	27 10 9.95	294.3	17.2	2	58.49
16587	25 3581	8.4 A5	18 33 55.688	243.83	.08	25 39 46.98	295.6	17.5	2	58.04
16597	36 3202	7.5 K0	18 34 22.516	208.04	.08	36 55 35.56	299.5	14.9	2	57.56
16600	18 3747	8.1 K5	18 34 37.813	262.09	.06	18 54 12.32	301.7	18.8	2	58.03
16605	43 3025	7.3 K2	18 34 55.973	180.88	.06	43 45 13.24	304.3	13.0	2	58.58
16608	33 3156	8.2 G5	18 35 6.262	220.98	.08	33 10 49.41	305.8	15.9	2	58.04
16610	72 852	7.6 K0	18 35 10.401	-108.16	-1.14	72 22 9.12	306.4	-7.9	2	58.05
16611	14 3596	8.2 K0	18 35 15.983	272.37	.05	14 49 48.12	307.2	19.6	2	58.03
16630	46 2519	8.2 K2	18 36 37.404	167.02	.04	46 45 53.82	318.9	11.9	2	57.01
16634	59 1908	8.1 K5	18 37 2.749	81.53	-.15	59 42 47.36	322.6	5.8	2	56.97
16641	57 1890	7.9 K0	18 37 22.305	102.73	-.09	57 12 7.95	325.4	7.3	2	57.04
16646	7 3799	7.8 K2	18 37 39.429	289.47	.02	7 42 57.51	327.8	20.7	2	57.52
16647	24 3489	8.4 K0	18 37 46.668	245.97	.07	24 57 41.67	328.9	17.6	2	58.05
16661	53 2113	8.4 A0	18 38 50.038	130.77	-.03	53 16 41.08	338.0	9.3	2	57.08
16663	0 3993	7.8 K2	18 38 53.523	306.14	-.01	0 30 58.50	338.5	21.9	2	57.49
16674	74 789	8.5 A5	18 39 50.968	-169.73	-1.89	74 34 40.51	346.7	-12.3	2	57.50
16681	20 3905	8.0 G5	18 40 39.388	257.82	.06	20 37 37.94	353.7	18.4	2	57.43
16686	-1 3551	7.3 M0	18 41 1.755	311.02	-.03	-1 36 36.06	356.9	22.2	4	59.73
16690	29 3326	7.9 M0	18 41 4.872	232.16	.07	29 45 25.33	357.3	16.6	2	58.58
16694	31 3344	8.5 K5	18 41 9.510	225.30	.07	31 57 46.40	358.0	16.1	2	58.03
16695	5 3934	8.2 K0	18 41 18.114	294.24	.01	5 41 9.56	359.2	21.0	2	58.50
16709	49 2849	7.6 K5	18 41 57.371	152.59	.01	49 39 55.39	364.9	10.9	2	57.58
16713	1 3764	8.2 K2	18 42 6.308	302.58	-.01	2 4 6.68	366.1	21.6	2	59.03
16737	11 3599	8.8 K5	18 44 16.422	279.31	.03	12 3 43.92	384.8	19.9	2	57.03
16742	9 3866	8.0 M0	18 44 32.602	285.71	.02	9 21 50.97	387.1	20.3	4	58.70
16744	75 680	8.9 G5	18 44 34.780	-211.83	-2.64	75 49 40.26	387.4	-15.2	2	57.06
16745	30 3294	7.6 K2	18 44 44.145	230.02	.07	30 31 54.04	388.7	16.4	2	57.03
16749	43 3072	7.9 K5	18 44 56.534	182.94	.05	43 30 20.35	390.5	13.0	2	58.06
16758	6 3943	8.0 K0	18 45 36.731	292.17	.00	6 36 8.01	396.3	20.8	2	57.59
16760	28 3086	7.4 K2	18 45 46.908	235.96	.07	28 35 14.61	397.7	16.8	3	59.53
16763	65 1293	8.5 A0	18 45 56.440	13.95	-.58	65 56 50.32	399.1	.9	2	58.04
16772	20 3941	8.5 F8	18 46 23.994	257.66	.05	20 46 44.69	403.0	18.3	4	59.75
16775	32 3220	7.1 K5	18 46 35.957	223.25	.07	32 43 19.56	404.8	15.9	2	56.94
16797	45 2779	8.9 K0	18 47 39.264	175.38	.03	45 15 47.35	413.8	12.4	2	57.50
16804	58 1837	8.6 A0	18 48 44.679	93.00	-.20	58 38 35.59	423.1	6.5	2	58.56
16811	42 3174	7.6 K0	18 48 57.815	186.19	.05	42 51 7.81	424.9	13.2	2	57.03
16814	-1 3582	8.7 B9	18 49 5.164	311.48	-.05	-1 49 13.23	426.0	22.1	5	59.68
16821	51 2438	8.0 K2	18 49 22.567	141.39	-.04	51 48 39.47	428.5	10.0	2	58.05
16850	35 3388	7.6 K2	18 50 55.465	214.64	.06	35 25 2.89	441.7	15.2	2	56.97
16853	9 3911	7.9 M0	18 51 7.175	285.30	.01	9 35 44.24	443.4	20.2	2	59.03

Position 1950 + T = Position 1950 + T (1st term) + T² (2nd term) + T' (P. M.).

T in centuries from 1900.0, T' in centuries from epoch.

No.	B.D. No.	M + Sp.	R.A. 1950	Precession		Decl. 1950	Precession		No. Obs.	Epoch 1900+
				1st Term	2nd Term		1st Term	2nd Term		
16857	33 3246	8.4 K	18 51 25.062	221.39	.07	33 24 40.57	445.9	15.6	2	57.03
16861	12 3711	8.7 K2	18 51 51.528	277.27	.02	12 59 50.10	449.7	19.6	2	57.06
16872	7 3894	8.6 A2	18 52 26.397	290.57	-.01	7 20 10.35	454.6	20.5	2	57.10
16878	- 3 4413	8.8 K0	18 52 52.036	313.89	-.07	- 2 53 20.41	458.2	22.2	2	58.03
16883	26 3394	7.9 K0	18 53 19.634	241.26	.07	26 56 14.58	462.2	17.0	2	58.04
16898	49 2898	7.1 K5	18 54 39.682	154.05	-.02	49 44 1.66	473.5	10.8	2	56.96
16899	5 3987	8.4 K2	18 54 45.574	293.79	-.02	5 57 15.48	474.3	20.7	2	57.11
16901	16 3677	8.3 K0	18 54 51.824	268.47	.03	16 39 48.77	475.2	18.9	2	57.52
16908	56 2164	7.8 K5	18 55 9.843	110.57	-.17	56 35 41.23	477.8	7.7	2	58.12
16909	47 2720	8.5 F8	18 55 13.917	165.28	.00	47 35 20.93	478.4	11.6	2	57.56
16911	38 3362	7.2 K5	18 55 24.636	203.28	.06	38 43 51.02	479.9	14.3	2	58.04
16925	25 3683	7.6 K5	18 56 28.223	246.41	.06	25 10 46.15	488.9	17.3	2	58.03
16930	- 1 3613	8.4 A5	18 56 43.003	310.58	-.07	- 1 26 15.18	491.0	21.8	2	57.03
16937	2 3751	7.8 K2	18 57 43.390	300.82	-.04	2 52 46.38	499.5	21.1	2	57.05
16947	62 1670	7.7 K5	18 58 12.724	56.16	-.48	62 45 18.18	503.6	3.9	2	57.53
16950	1 3851	8.4 K0	18 58 17.953	304.37	-.06	1 18 41.98	504.4	21.4	2	56.61
16954	88 114	8.3 K0	18 58 28.833	5773.40	-682.80	88 46 55.21	506.1	-407.2	2	58.63
16960	58 1851	8.7 A2	18 58 42.959	96.06	-.25	58 32 27.04	507.9	6.7	2	57.57
16980	8 3950	8.4 K0	18 59 45.646	287.62	-.02	8 40 47.95	516.7	20.2	2	57.10
16984	70 1039	8.1 K0	18 59 58.762	-59.71	-1.51	70 37 33.06	518.6	-4.3	2	57.58
16986	37 3315	7.8 K0	19 0 26.447	207.49	.06	37 44 17.99	522.5	14.5	2	56.96
17017	80 604	8.0 K0	19 2 20.443	-451.67	-9.23	80 22 32.98	538.5	-31.8	2	58.54
17019	39 3630	7.5 K5	19 2 22.048	199.18	.05	40 2 26.81	538.7	13.9	2	57.14
17024	54 2080	7.2 K5	19 2 50.750	128.24	-.13	54 18 48.76	542.7	8.9	2	57.06
17040	52 2336	8.6 K5	19 3 37.110	138.74	-.09	52 41 1.97	549.2	9.6	2	58.04
17080	46 2627	7.9 K0	19 6 18.565	170.21	-.01	46 57 20.04	571.8	11.8	2	57.08
17095	2 3801	8.5 K2	19 7 11.325	301.99	-.07	2 23 24.29	579.2	20.9	2	56.67
17097	48 2837	8.8 G	19 7 19.848	164.50	-.02	48 9 29.49	580.4	11.4	2	57.58
17100	32 3335	7.6 K0	19 7 25.438	224.96	.06	32 47 15.31	581.2	15.6	2	57.05
17102	64 1330	7.9 K0	19 7 47.947	41.74	-.69	64 18 4.06	584.3	2.8	2	56.96
17112	22 3613	8.2 K0	19 8 24.326	254.05	.04	22 38 38.58	589.4	17.6	2	57.57
17113	40 3613	8.5 F5	19 8 31.415	198.01	.04	40 34 2.62	590.4	13.7	2	57.08
17122	58 1873	7.0 K5	19 8 52.223	99.98	-.30	58 23 8.61	593.3	6.8	2	59.02
17124	7 3988	8.2 G5	19 9 0.822	289.63	-.03	7 53 39.75	594.5	20.0	2	57.58
17132	29 3506	7.3 K0	19 9 34.131	234.28	.06	29 48 21.46	599.1	16.2	2	58.56
17133	- 4 4719	8.3 K0	19 9 43.665	317.46	-.13	- 4 32 52.94	600.4	21.9	4	58.54
17145	21 3695	8.2 A2	19 10 59.646	256.37	.04	21 49 18.20	611.0	17.7	2	58.56
17147	66 1172	8.1 K0	19 11 11.889	8.62	-1.04	66 55 50.67	612.7	.5	2	57.11
17153	- 0 3679	8.2 G5	19 11 24.943	307.24	-.10	0 2 19.35	614.5	21.2	2	57.58
17154	8 4007	7.2 K0	19 11 29.861	287.31	-.03	8 56 47.39	615.2	19.8	2	57.12
17158	34 3468	7.6 K0	19 11 46.748	218.89	.06	34 49 38.96	617.5	15.0	2	58.14
17169	41 3271	8.6 K	19 12 14.011	194.32	.04	41 39 19.98	621.3	13.3	2	57.61
17172	69 1036	8.6 A2	19 12 22.621	-34.58	-1.56	69 37 18.36	622.5	-2.5	2	58.57
17183	49 2965	7.9 K2	19 12 53.547	157.78	-.05	49 40 45.71	626.8	10.8	4	57.87
17184	36 3466	7.8 K0	19 12 56.807	212.04	.05	36 54 0.76	627.2	14.5	2	58.56
17189	52 2376	8.3 K5	19 13 24.522	140.38	-.12	52 46 40.26	631.1	9.6	2	58.60
17190	73 854	7.7 M0	19 13 27.974	-129.30	-2.99	73 48 18.54	631.5	-9.1	2	58.05
17192	14 3849	8.1 G5	19 13 31.659	273.03	.01	15 7 59.97	632.0	18.7	2	57.59
17202	67 1132	8.9 G5	19 14 21.904	-3.30	-1.23	67 49 9.02	639.0	-.4	2	57.11
17204	65 1334	8.2 K2	19 14 32.166	29.89	-.89	65 28 11.36	640.4	1.9	2	58.14

Position 1950 + T = Position 1950 + T (1st term) + T² (2nd term) + T' (P. M.).

T in centuries from 1900.0, T' in centuries from epoch.

No.	B. D. No.		M + Sp.	R. A. 1950		Precession		Decl. 1950		Precession		No. Obs.	Epoch 1900+
						1st Term	2nd Term			1st Term	2nd Term		
17207	12	3867	8.5 A0	19 14	39.436	278.03	-.01	13 1	43.73	641.4	19.1	2	57.59
17209	20	4095	8.3 A0	19 14	42.467	260.07	.03	20 28	14.94	641.8	17.8	2	58.12
17221	- 1	3702	8.6 K2	19 15	27.547	309.75	-.12	- 1 6	1.29	648.0	21.2	2	57.60
17223	63	1504	8.1 K0	19 15	36.992	55.96	-.66	63 18	9.25	649.3	3.7	2	58.14
17233	33	3403	8.3 K0	19 16	20.963	222.01	.06	34 2	38.86	655.4	15.2	2	59.47
17240	58	1891	8.6 F5	19 16	54.862	100.22	-.35	58 39	8.01	660.1	6.8	2	57.56
17242	84	437	8.6 K5	19 16	58.815	1050.41	-41.34	84 41	30.75	660.7	-72.4	2	58.02
17248	49	2976	7.3 M0	19 17	11.890	156.32	-.07	50 8	6.07	662.4	10.6	2	57.12
17254	5	4115	7.9 G5	19 17	33.407	295.20	-.07	5 29	37.72	665.4	20.2	2	58.12
17268	43	3215	7.9 K0	19 18	16.086	188.01	.02	43 27	43.84	671.3	12.8	2	57.06
17287	3	3990	8.6 F8	19 19	54.369	300.21	-.09	3 14	31.37	684.7	20.4	2	57.61
17289	39	3740	7.5 K0	19 20	19.569	204.28	.04	39 23	27.09	688.2	13.8	2	57.66
17304	62	1704	8.0 K2	19 21	15.757	64.51	-.65	62 42	13.93	695.9	4.3	2	57.56
17307	48	2890	8.0 K5	19 21	26.119	164.30	-.05	48 47	16.22	697.3	11.1	2	57.11
17308	15	3796	8.6 K2	19 21	26.671	272.21	.00	15 39	41.20	697.4	18.4	2	58.06
17310	11	3826	7.6 K0	19 21	42.592	282.21	-.03	11 20	32.99	699.5	19.1	2	58.49
17313	56	2238	7.7 K5	19 21	57.025	115.19	-.28	56 55	8.06	701.5	7.7	2	58.57
17324	28	3319	7.7 K0	19 22	21.931	239.47	.05	28 28	51.70	704.9	16.2	2	58.60
17338	43	3231	8.0 G5	19 23	14.084	189.12	.02	43 25	19.92	712.0	12.7	2	57.61
17339	60	1943	7.5 K0	19 23	25.481	88.87	-.47	60 14	57.95	713.6	5.9	2	59.02
17350	35	3614	7.2 M2	19 24	9.976	216.44	.06	36 5	8.18	719.6	14.6	2	58.05
17357	72	891	8.1 K5	19 24	39.123	-87.47	-2.72	72 29	0.44	723.6	-6.1	2	58.04
17369	1	4004	7.6 K2	19 25	20.308	302.82	-.11	2 4	17.45	729.2	20.4	2	58.12
17374	77	730	8.7 K0	19 25	30.773	-268.53	-6.93	77 48	27.00	730.6	-18.4	2	58.06
17378	32	3441	8.2 K2	19 25	45.710	226.85	.06	32 54	20.57	732.6	15.2	2	57.15
17383	52	2431	8.5 F0	19 25	53.862	144.12	-.14	52 41	50.59	733.7	9.6	2	59.03
17389	47	2837	7.6 K0	19 26	19.454	172.05	-.03	47 25	59.58	737.2	11.5	2	58.55
17405	79	629	7.9 F5	19 27	21.499	-373.82	-10.46	79 40	49.26	745.6	-25.4	2	58.58
17416	20	4167	8.5 K0	19 28	20.256	260.68	.03	20 38	35.61	753.5	17.5	2	57.67
17422	31	3631	7.3 K2	19 28	40.538	230.38	.06	31 52	26.53	756.3	15.4	2	57.65
17433	13	4039	8.1 K2	19 29	24.197	277.63	-.02	13 30	43.64	762.2	18.6	2	58.06
17453	63	1534	7.7 K2	19 30	54.464	52.62	-.87	64 10	45.86	774.3	3.4	2	58.04
17461	69	1052	7.7 K0	19 31	16.402	-20.66	-1.82	69 25	8.45	777.3	-1.6	2	57.15
17474	24	3780	8.6 A2	19 31	58.778	251.33	.04	24 28	40.29	783.0	16.7	2	57.52
17480	74	828	8.5 A5	19 32	23.317	-140.74	-4.14	74 39	38.85	786.2	-9.6	2	57.58
17486	19	4066	8.5 K5	19 32	40.349	262.75	.02	19 56	39.32	788.5	17.4	2	57.67
17487	14	3965	8.5 A2	19 32	55.380	275.86	-.02	14 22	34.90	790.6	18.3	2	59.03
17491	62	1730	7.3 K0	19 33	10.906	71.56	-.70	62 30	7.74	792.6	4.6	2	57.59
17498	44	3179	8.3 M0	19 33	46.815	186.02	.01	44 42	1.13	797.4	12.3	2	57.60
17505	- 4	4855	8.3 K5	19 34	6.765	316.78	-.20	- 4 24	44.05	800.1	21.0	2	57.60
17524	27	3446	7.9 K0	19 35	8.428	242.11	.05	28 4	30.15	808.3	16.0	2	57.60
17529	12	3995	7.9 K0	19 35	27.329	279.51	-.03	12 49	29.26	810.9	18.5	2	58.07
17540	0	4266	8.3 K5	19 36	13.964	306.28	-.14	0 29	26.78	817.1	20.2	2	58.50
17542	42	3403	8.6 F5	19 36	19.835	193.22	.02	43 5	14.95	817.8	12.7	2	57.12
17545	2	3950	8.8 A2	19 36	32.188	302.37	-.12	2 19	34.22	819.5	19.9	2	58.06
17552	10	4006	8.7 M0	19 36	57.957	285.25	-.05	10 16	20.36	822.9	18.8	2	57.66
17554	58	1948	8.2 K5	19 37	8.829	109.27	-.40	58 24	39.27	824.4	7.1	2	57.11
17570	34	3655	8.2 K2	19 38	21.602	221.83	.06	35 7	54.74	834.0	14.5	2	57.06
17593	50	2844	7.8 G5	19 39	53.122	161.64	-.09	50 15	36.85	846.1	10.5	2	57.11
17627	4	4210	7.7 K5	19 42	2.975	297.07	-.11	4 51	30.01	863.3	19.4	2	57.11

Position 1950 + T = Position 1950 + T (1st term) + T² (2nd term) + T' (P. M.).

T in centuries from 1900.0, T' in centuries from epoch.

No.	B.D. No.	M + Sp.	R.A. 1950	Precession		Decl. 1950	Precession		No. Obs.	Epoch 1900+
				1st Term	2nd Term		1st Term	2nd Term		
17628	64 1377	8.5 G0	19 42 5.792	53.67	-.99	64 34 32.35	863.6	3.3	2	57.07
17632	- 3 4696	7.4 K0	19 42 32.62J	313.97	-.20	- 3 9 25.73	867.1	20.4	2	57.15
17633	70 1085	8.9 F0	19 42 32.655	-39.17	-2.42	70 49 45.68	867.1	-2.8	2	58.05
17650	68 1078	8.5 K	19 43 23.350	-9.68	-1.92	69 13 36.40	873.8	-.8	2	58.56
17656	55 2257	7.4 M0	19 43 54.598	131.08	-.27	55 43 30.69	877.9	8.4	2	57.66
17659	24 3872	8.0 G5	19 44 7.915	251.23	.04	25 2 38.10	879.6	16.3	2	57.51
17660	35 3791	8.0 K2	19 44 8.639	222.23	.06	35 19 43.06	879.7	14.4	2	57.06
17665	37 3600	8.2 K0	19 44 30.343	215.16	.06	37 32 5.68	882.6	13.9	2	57.12
17669	45 2971	7.5 K0	19 44 44.920	184.83	0.00	45 36 44.86	884.5	11.9	2	58.06
17681	58 1981	7.8 G0	19 45 17.225	113.85	-.40	58 14 34.03	888.7	7.3	2	58.06
17686	28 3478	8.1 G5	19 45 26.565	242.70	.06	28 21 40.86	889.9	15.7	2	58.59
17688	9 4264	8.2 K5	19 45 33.728	286.41	-.06	9 54 52.88	890.9	18.5	2	58.13
17701	- 4 4926	7.8 A0	19 46 17.908	316.99	-.23	- 4 37 18.42	896.6	20.5	2	57.15
17708	14 4053	8.1 G5	19 46 59.279	275.18	-.02	15 4 39.66	902.0	17.7	2	57.61
17711	6 4323	8.6 F8	19 47 12.755	292.32	-.09	7 10 24.14	903.8	18.8	2	57.66
17713	61 1912	6.8 K5	19 47 24.323	89.72	-.63	61 17 6.99	905.3	5.6	2	59.02
17714	72 911	7.9 K0	19 47 28.277	-67.03	-3.13	72 20 19.34	905.8	-4.6	2	57.06
17718	32 3587	8.0 A2	19 47 47.173	229.53	.07	33 8 59.00	908.2	14.7	2	58.06
17727	44 3265	8.4 K0	19 48 25.168	188.29	.01	45 1 26.03	913.2	12.0	2	57.11
17731	48 2959	7.8 K2	19 48 46.003	174.10	-.04	48 15 49.06	915.9	11.1	2	57.97
17743	- 2 5136	8.0 K2	19 49 27.847	312.06	-.20	- 2 16 57.35	921.3	20.0	2	57.69
17751	50 2904	7.8 K0	19 50 12.070	162.88	-.09	50 38 38.16	927.0	10.3	2	58.04
17752	25 4006	8.8 M0	19 50 17.405	249.99	.05	25 49 57.09	927.7	16.0	2	57.60
17757	68 1084	8.7 A3	19 50 36.551	7.30	-1.78	68 28 17.93	930.2	.3	4	58.80
17762	65 1409	7.7 G5	19 50 49.682	48.73	-1.15	65 25 3.39	931.9	2.9	2	58.56
17769	11 4035	8.5 K0	19 51 20.163	283.34	-.05	11 28 39.50	935.8	18.1	2	59.03
17773	35 3850	7.6 G5	19 51 32.372	221.31	.07	36 3 59.03	937.4	14.1	2	58.15
17787	48 2979	8.1 K0	19 52 35.018	171.27	-.06	49 6 37.33	945.4	10.8	2	57.15
17793	15 3985	8.3 K2	19 52 49.922	275.08	-.02	15 18 52.10	947.4	17.5	2	58.14
17801	78 694	7.9 K5	19 53 21.453	-270.37	-9.66	78 29 36.43	951.4	-17.5	2	58.13
17808	60 2046	6.8 K5	19 54 0.136	99.93	-.57	60 28 54.71	956.4	6.2	2	57.06
17812	82 598	7.8 G5	19 54 18.902	-563.26	-24.72	82 19 25.91	958.8	-36.3	2	58.06
17815	62 1769	8.1 G5	19 54 25.979	75.14	-.85	63 11 48.87	959.7	4.6	2	57.59
17816	- 1 3864	8.0 K2	19 54 26.479	309.62	-.19	- 1 7 18.29	959.7	19.6	2	58.94
17818	16 4073	8.4 A0	19 54 31.279	273.09	-.01	16 16 26.94	960.3	17.3	2	57.61
17831	53 2328	8.1 K2	19 55 17.315	148.26	-.18	53 38 58.19	966.2	9.3	2	57.67
17832	21 3987	8.0 K0	19 55 18.667	260.93	.03	21 37 17.65	966.4	16.5	2	58.58
17839	- 3 4757	7.0 K5	19 55 55.098	314.86	-.24	- 3 41 23.94	971.0	19.9	2	58.14
17850	36 3794	8.8 A	19 56 44.864	220.03	.07	36 48 32.31	977.4	13.8	2	58.14
17851	55 2291	8.4 K0	19 56 49.464	133.85	-.29	56 5 10.39	978.0	8.3	2	58.05
17853	45 3022	8.9 K2	19 56 52.720	189.61	.01	45 16 8.40	978.4	11.9	2	58.05
17855	25 4050	7.7 K5	19 56 58.105	250.84	.05	25 51 4.88	979.1	15.7	2	57.03
17877	34 3832	7.7 K2	19 58 26.271	225.32	.07	35 13 11.92	990.3	14.1	2	57.59
17888	69 1085	7.8 G5	19 59 14.254	-15.29	-2.39	70 14 1.15	996.3	-1.2	2	57.58
17891	29 3857	7.4 K0	19 59 31.523	240.23	.07	30 4 43.07	998.5	15.0	2	58.05
17895	43 3453	7.9 K0	19 59 36.868	194.98	.04	44 7 29.17	999.2	12.1	2	56.57
17897	42 3563	7.6 M0	19 59 42.235	199.01	.04	43 5 16.27	999.9	12.4	4	58.55
17900	17 4197	8.2 K0	19 59 57.079	271.11	.00	17 22 30.44	1001.8	16.9	2	58.15
17902	- 3 4771	8.1 G5	20 0 0.701	314.37	-.24	- 3 28 58.44	1002.2	19.6	2	57.70
17903	20 4389	8.5 A0	20 0 6.047	263.41	.02	20 47 9.46	1002.9	16.4	2	58.14

Position 1950 + T = Position 1950 + T (1st term) + T² (2nd term) + T' (P. M.).

T in centuries from 1900.0, T' in centuries from epoch.

No.	B.D. No.	M + Sp.	R.A. 1950	Precession		Decl. 1950	Precession		No. Obs.	Epoch 1900+
				1st Term	2nd Term		1st Term	2nd Term		
17906	34 3846	8.3 K5	20 0 9.797	228.33	.08	34 19 58.20	1003.4	14.2	2	57.73
17907	- 1 3885	8.6 K0	20 0 10.439	308.83	-.20	- 0 44 49.93	1003.5	19.3	2	58.15
17909	71 991	7.6 K5	20 0 42.331	-43.18	-3.04	71 45 37.95	1007.5	-2.9	2	58.06
17911	61 1961	7.6 K0	20 0 55.147	90.09	-.73	62 0 45.98	1009.1	5.5	2	59.04
17915	18 4366	8.8 K2	20 1 5.571	268.53	.01	18 34 53.09	1010.4	16.7	2	58.59
17926	37 3744	7.1 M0	20 1 51.091	216.74	.08	38 11 7.42	1016.1	13.4	2	57.56
17945	25 4093	8.9 K2	20 3 7.029	253.01	.05	25 19 18.42	1025.6	15.6	2	57.61
17967	85 340	7.8 K3	20 4 4.630	1187.89	-87.60	85 37 15.27	1032.9	-74.4	2	58.59
17972	87 187	8.1 K0	20 4 29.801	2658.11	-365.59	87 47 27.57	1035.8	-166.1	2	58.18
17973	16 4145	7.8 K0	20 4 33.283	272.96	-.01	16 43 30.55	1036.5	16.8	2	56.57
17990	73 898	8.4 M0	20 5 54.611	-72.81	-3.95	73 18 45.41	1046.6	-4.8	2	57.58
17991	22 3936	8.9 K0	20 5 57.939	258.69	-.04	23 7 3.21	1047.0	15.9	2	57.61
17996	9 4414	7.4 K0	20 6 9.280	287.44	-.08	9 54 25.33	1048.3	17.6	2	57.11
18009	45 3066	7.9 G5	20 6 32.272	191.98	.02	45 23 47.32	1051.2	11.7	2	57.10
18025	42 3613	8.9 K2	20 7 37.168	201.12	.05	43 6 56.04	1059.3	12.2	3	57.95
18040	8 4369	7.3 M0	20 8 55.381	290.30	-.09	8 34 3.00	1068.9	17.7	2	57.60
18043	5 4441	7.5 K5	20 8 58.851	295.60	-.12	5 55 21.05	1069.3	18.0	4	58.34
18059	46 2870	7.9 G5	20 9 52.943	187.42	.01	46 46 4.93	1076.0	11.3	2	57.67
18060	10 4205	8.3 K2	20 10 4.095	285.21	-.06	11 6 25.02	1077.4	17.3	2	58.12
18064	14 4223	8.1 K0	20 10 28.663	276.80	-.02	15 10 43.69	1080.4	16.8	2	58.13
18065	19 4322	7.9 K2	20 10 39.979	267.73	.02	19 23 34.01	1081.8	16.2	2	57.68
18074	17 4257	8.2 K2	20 11 26.766	270.81	.00	18 1 19.48	1087.5	16.3	2	58.59
18075	27 3652	8.3 A2	20 11 32.142	248.14	.07	27 48 38.71	1088.2	15.0	2	58.15
18079	- 0 3949	8.3 A5	20 11 46.198	307.34	-.21	- 0 0 30.18	1090.0	18.6	2	58.14
18089	20 4488	8.8 G5	20 12 16.191	265.46	.03	20 29 58.13	1093.6	16.0	2	58.10
18091	2 4121	7.3 K0	20 12 22.880	300.97	-.16	3 15 12.14	1094.4	18.2	2	58.14
18113	43 3541	7.3 K5	20 13 46.936	199.72	.06	43 59 5.32	1104.6	11.9	2	57.67
18120	56 2382	8.6 A2	20 14 17.587	137.72	-.30	56 43 10.98	1108.4	8.1	2	58.59
18126	74 853	8.8 K0	20 14 38.070	-91.13	-4.84	74 24 16.21	1110.9	-5.8	2	58.13
18140	72 945	6.6 M0	20 15 18.718	-43.66	-3.51	72 27 2.63	1115.8	-2.9	2	57.67
18149	9 4476	8.3 K2	20 15 56.915	288.80	-.08	9 29 35.07	1120.4	17.2	2	57.57
18163	61 1996	7.9 K0	20 16 30.973	99.47	-.72	61 58 53.83	1124.5	5.8	2	57.14
18167	- 4 5090	8.5 F5	20 16 42.052	314.89	-.27	- 3 54 42.58	1125.8	18.7	2	57.66
18182	77 770	7.4 K0	20 17 28.327	-205.69	-9.27	77 52 0.68	1131.4	-12.6	2	57.12
18197	33 3864	8.0 G5	20 18 33.268	234.12	.10	33 39 30.75	1139.2	13.8	2	58.05
18201	21 4167	7.8 K5	20 18 48.880	264.37	.04	21 21 29.93	1141.1	15.6	2	57.06
18214	51 2848	7.2 K5	20 19 51.062	165.90	-.09	52 15 2.00	1148.5	9.7	3	57.58
18218	21 4179	8.9 A0	20 20 18.911	262.74	.04	22 10 58.85	1151.8	15.4	2	57.05
18237	- 1 3971	7.7 K0	20 21 34.672	308.71	-.22	- 0 43 47.40	1160.9	18.1	2	58.05
18240	33 3885	8.2 A2	20 21 36.732	233.27	.11	34 12 54.77	1161.1	13.6	2	57.59
18247	- 1 3976	8.0 K0	20 22 6.371	310.56	-.24	- 1 42 15.77	1164.6	18.2	2	58.13
18255	25 4226	7.9 K5	20 22 28.770	254.93	.07	25 45 11.45	1167.3	14.9	2	57.56
18271	14 4293	7.4 K5	20 23 39.881	278.78	-.02	14 46 42.96	1175.7	16.2	2	57.56
18277	75 739	8.1 K2	20 23 50.113	-122.63	-6.39	75 52 50.11	1176.9	-7.5	3	57.63
18278	60 2125	8.1 A2	20 24 5.988	111.29	-.61	61 8 2.46	1178.8	6.3	2	58.04
18280	1 4289	8.1 K5	20 24 8.596	304.02	-.19	1 45 3.78	1179.1	17.7	2	57.59
18291	53 2405	8.0 K2	20 24 59.943	161.04	-.13	53 37 29.09	1185.1	9.2	2	57.10
18319	9 4546	8.0 M0	20 26 33.700	288.11	-.07	10 9 50.82	1196.1	16.6	2	57.59
18321	21 4225	8.6 A0	20 26 34.590	264.12	.05	21 56 51.82	1196.2	15.2	2	58.58
18328	- 4 5153	8.0 K5	20 27 3.022	315.47	-.29	- 4 21 1.41	1199.6	18.2	2	57.66

Position 1950 + T = Position 1950 + T (1st term) + T² (2nd term) + T' (P. M.).

T in centuries from 1900.0, T' in centuries from epoch.

No.	B. D. No.	M + Sp.	R. A. 1950	Precession		Decl. 1950	Precession		No. Obs.	Epoch 1900+
				1st Term	2nd Term		1st Term	2nd Term		
18333	24 4145	7.6 K5	20 27 13.110	257.65	.07	24 54 22.49	1200.7	14.8	2	57.16
18336	67 1252	8.2 K0	20 27 33.291	46.63	-1.68	67 42 36.69	1203.1	2.5	2	58.04
18338	- 1 3988	8.4 K5	20 27 39.922	309.83	-.24	- 1 20 29.23	1203.8	17.8	2	58.04
18358	40 4211	7.1 K2	20 29 18.756	215.98	.11	40 41 16.10	1215.3	12.3	2	57.67
18365	15 4185	8.1 G5	20 29 36.125	277.41	-.01	15 44 33.79	1217.4	15.8	4	58.84
18368	1 4309	7.6 K2	20 29 45.927	303.53	-.19	2 2 58.72	1218.4	17.3	2	58.14
18383	9 4570	8.4 K2	20 30 29.331	289.36	-.08	9 37 58.91	1223.5	16.4	3	57.95
18390	0 4536	8.0 K0	20 31 4.355	305.30	-.20	1 5 50.72	1227.5	17.3	4	59.57
18398	14 4343	7.7 K0	20 31 38.178	279.99	-.02	14 32 27.31	1231.4	15.9	2	58.50
18402	38 4149	8.8 A0	20 31 51.200	223.04	.13	38 39 45.13	1232.9	12.6	4	58.64
18409	10 4325	8.1 K2	20 32 2.921	286.60	-.06	11 8 18.00	1234.3	16.2	2	58.22
18410	24 4165	8.9 A2	20 32 2.930	259.02	.08	24 39 1.27	1234.3	14.6	3	58.25
18416	6 4580	8.4 K5	20 32 39.248	294.26	-.12	7 5 24.74	1238.4	16.6	2	57.56
18417	49 3317	7.0 K5	20 32 44.365	183.92	.02	49 36 1.14	1239.0	10.3	2	57.60
18429	1 4327	7.7 K0	20 34 11.077	303.09	-.19	2 19 16.46	1248.9	17.0	2	58.06
18436	- 1 4015	7.4 G5	20 34 35.792	310.03	-.25	- 1 29 11.53	1251.7	17.4	2	58.05
18437	21 4285	7.7 K2	20 34 46.221	266.47	.05	21 23 39.32	1252.9	14.9	2	57.69
18448	39 4254	8.3 K2	20 35 34.887	221.20	.14	39 37 50.30	1258.5	12.3	2	58.12
18453	34 4098	7.6 K2	20 35 45.517	234.49	.14	35 1 25.16	1259.7	13.0	2	58.05
18459	25 4308	8.7	20 36 11.913	258.02	.09	25 24 51.54	1262.7	14.3	2	58.14
18460	32 3886	7.4 K0	20 36 12.971	239.49	.13	33 10 27.87	1262.8	13.3	4	58.89
18462	63 1640	7.6 K5	20 36 22.060	92.95	-.95	64 11 4.54	1263.8	5.0	2	57.59
18480	27 3820	7.5 K5	20 37 23.398	252.59	.11	27 54 40.48	1270.7	14.0	2	57.10
18482	60 2145	7.7 F8	20 37 27.154	122.93	-.53	60 44 28.70	1271.2	6.7	3	58.89
18505	58 2156	8.4 K7	20 38 50.103	138.16	-.35	58 42 57.31	1280.5	7.5	2	57.12
18514	11 4355	7.8 K2	20 39 18.013	286.66	-.06	11 23 12.84	1283.6	15.8	2	57.21
18519	37 4026	7.9 K2	20 39 47.870	227.13	.15	38 3 34.39	1287.0	12.4	2	57.14
18520	9 4616	8.4 K2	20 39 57.483	288.74	-.07	10 17 34.70	1288.0	15.8	2	57.59
18539	43 3695	9.0 K0	20 41 23.929	209.37	.12	43 53 20.30	1297.7	11.4	2	57.60
18541	72 962	7.2 K2	20 41 33.401	-21.32	-3.71	72 47 39.08	1298.7	-1.5	2	57.09
18550	26 3970	8.2 K0	20 41 48.048	254.91	.11	27 16 21.60	1300.3	13.9	2	58.58
18552	32 3913	8.2 K2	20 41 50.633	241.51	.14	32 55 14.06	1300.6	13.1	2	57.05
18570	31 4210	7.4 K2	20 43 10.572	245.12	.14	31 35 27.99	1309.5	13.2	2	57.24
18575	22 4176	7.7 G5	20 43 27.807	264.78	.08	22 50 3.28	1311.4	14.3	2	57.61
18578	30 4169	8.3 K2	20 43 45.760	247.93	.14	30 28 29.84	1313.3	13.4	2	56.61
18593	15 4256	8.7 M0	20 44 59.407	277.91	.01	16 19 14.23	1321.4	14.9	2	58.14
18609	59 2285	8.3 K2	20 45 59.849	134.58	-.41	59 54 56.68	1328.0	7.1	2	58.60
18610	28 3888	8.0 K0	20 46 4.062	253.36	.13	28 20 37.47	1328.5	13.5	2	57.60
18613	0 4589	7.9 K2	20 46 9.071	304.98	-.21	1 20 30.16	1329.1	16.4	2	57.22
18621	4 4552	8.2 K0	20 46 43.358	298.88	-.15	4 50 20.24	1332.8	16.0	2	58.21
18624	41 3897	7.2 G5	20 46 53.306	218.86	.17	41 34 36.87	1333.9	11.6	2	57.66
18636	1 4374	7.4 K5	20 47 26.991	303.43	-.19	2 14 48.65	1337.5	16.2	2	57.61
18641	11 4397	8.4 A0	20 47 48.620	286.39	-.04	11 53 46.80	1339.9	15.2	2	57.14
18646	50 3209	7.1 K5	20 47 59.792	186.45	.06	50 35 47.26	1341.1	9.8	2	57.20
18669	22 4223	7.0 K5	20 49 37.110	265.16	.09	23 8 32.78	1351.6	14.0	2	57.59
18683	- 0 4121	8.2 K2	20 50 53.485	307.09	-.23	0 8 9.38	1359.8	16.2	2	58.13
18690	0 4610	8.2 K5	20 51 26.282	305.22	-.21	1 14 2.03	1363.3	16.0	2	57.60
18702	10 4403	8.2 K0	20 51 56.707	288.53	-.06	10 53 4.90	1366.5	15.1	2	57.05
18714	53 2514	7.6 K5	20 52 54.013	175.39	-.01	53 34 32.20	1372.7	9.0	4	58.87
18719	19 4564	7.4 K2	20 53 17.218	271.54	.07	20 12 32.20	1375.1	14.1	2	57.12

Position 1950 + T = Position 1950 + T (1st term) + T² (2nd term) + T' (P. M.).

T in centuries from 1900.0, T' in centuries from epoch.

No.	B.D. No.	M + Sp.	R.A. 1950	Precession		Decl. 1950	Precession		No. Obs.	Epoch 1900+
				1st Term	2nd Term		1st Term	2nd Term		
18720	2 4275	8.5 A5	20 53 19.208	301.89	-.17	3 12 2.08	1375.3	15.7	2	57.14
18731	69 1136	8.1 K0	20 54 0.617	44.54	-2.16	69 45 20.85	1379.7	2.1	2	57.12
18738	59 2296	7.6 K5	20 54 24.509	140.88	-.34	59 49 45.55	1382.2	7.1	2	56.65
18752	- 3 5076	8.2 M0	20 54 52.650	313.12	-.30	- 3 25 48.48	1385.2	16.2	2	58.58
18754	22 4248	8.6 K0	20 55 0.196	266.98	.10	22 41 8.33	1386.0	13.8	4	58.88
18762	32 3999	8.2 A2	20 55 34.599	244.54	.18	33 6 25.58	1389.6	12.6	2	57.20
18769	5 4659	8.7 K2	20 55 56.895	298.25	-.14	5 23 46.17	1391.9	15.3	4	58.91
18774	50 3236	8.8 G0	20 56 29.444	190.23	.09	50 40 38.53	1395.4	9.7	2	58.60
18776	40 4373	7.0 K5	20 56 35.329	223.50	.20	41 9 46.96	1396.0	11.4	2	58.13
18782	- 2 5421	8.0 K0	20 56 56.462	310.11	-.26	- 1 39 47.37	1398.2	15.9	2	57.59
18785	67 1279	7.3 K5	20 57 12.393	75.68	-1.46	67 34 7.58	1399.8	3.6	2	57.09
18802	24 4299	8.7 K0	20 58 41.767	263.69	.12	24 40 5.84	1409.1	13.4	2	57.66
18803	- 3 5092	8.0 G0	20 58 46.505	311.82	-.28	- 2 42 39.24	1409.6	15.9	2	58.05
18809	85 359	8.4 A3	20 59 1.050	-947.36	-99.57	85 40 31.40	1411.2	-49.3	2	57.59
18816	- 0 4148	8.8 G5	20 59 31.662	307.68	-.24	- 0 12 55.61	1414.3	15.6	2	57.15
18819	51 2982	7.4 K2	20 59 36.360	186.45	.08	51 56 23.13	1414.8	9.3	2	58.05
18821	73 922	8.4 K0	20 59 52.679	-24.29	-4.45	74 5 21.92	1416.5	-1.6	2	57.56
18823	36 4375	7.7 G5	20 59 59.586	237.41	.22	36 30 11.00	1417.2	11.9	2	56.69
18825	17 4492	8.1 K0	21 0 8.984	277.09	.05	17 45 20.61	1418.2	14.0	3	58.07
18828	49 3440	8.3 K2	21 0 15.420	197.05	.14	49 26 38.96	1418.8	9.8	2	58.57
18840	28 3970	7.6 K0	21 0 47.990	255.60	.17	28 47 11.75	1422.2	12.8	2	58.60
18859	2 4296	8.4 A0	21 2 10.895	303.10	-.18	2 35 0.33	1430.6	15.2	2	56.70
18864	70 1158	8.4 K0	21 2 38.955	31.20	-2.69	71 18 54.29	1433.5	1.3	2	57.66
18869	- 4 5355	7.2 K5	21 2 54.646	314.77	-.32	- 4 33 44.83	1435.1	15.7	2	57.60
18870	41 3993	8.4 K0	21 2 55.492	222.49	.23	42 17 22.35	1435.2	11.0	2	58.13
18877	16 4454	8.1 K5	21 3 18.267	279.42	.04	16 41 3.63	1437.5	13.9	2	58.13
18886	46 3174	7.7 K5	21 3 51.326	208.55	.20	46 45 45.56	1440.9	10.3	2	58.15
18890	27 3970	8.8 A0	21 4 9.920	257.57	.17	28 12 42.72	1442.8	12.7	2	57.69
18892	25 4463	8.0 K5	21 4 17.917	263.18	.14	25 28 1.44	1443.5	13.0	2	56.61
18903	8 4616	7.7 K0	21 5 0.883	292.54	-.07	9 5 37.38	1447.9	14.4	4	58.93
18914	54 2476	7.9 K0	21 5 48.356	176.82	.03	54 48 5.69	1452.7	8.6	2	58.13
18917	12 4553	8.1 K0	21 6 0.069	285.72	-.01	13 13 13.06	1453.8	14.0	2	57.60
18934	38 4362	7.3 K2	21 7 10.914	234.50	.24	38 31 31.68	1460.9	11.4	2	57.15
18951	36 4447	7.8 K2	21 8 42.197	238.15	.24	37 17 35.49	1470.0	11.5	2	58.15
18953	25 4477	8.7 A0	21 8 47.464	263.02	.16	26 0 45.77	1470.5	12.7	2	57.67
18962	8 4627	8.8 A0	21 9 34.291	293.69	-.08	8 34 17.18	1475.2	14.2	2	57.15
18964	22 4331	7.3 K0	21 9 40.177	269.18	.13	22 52 30.73	1475.7	13.0	2	58.05
18971	35 4431	7.3 K2	21 9 58.257	243.07	.24	35 26 19.64	1477.5	11.7	2	57.15
18974	39 4479	7.6 K2	21 10 16.883	231.83	.26	39 56 38.66	1479.4	11.1	2	57.59
18976	32 4088	7.5 K0	21 10 24.617	248.75	.23	33 1 59.77	1480.1	11.9	2	58.22
18980	- 1 4123	7.8 K5	21 10 33.389	309.43	-.26	- 1 20 10.33	1481.0	14.9	2	57.68
18981	63 1703	8.0 K0	21 10 35.959	126.20	-.59	63 34 27.73	1481.2	5.9	2	57.17
18986	27 4007	7.5 K5	21 10 49.276	259.62	.18	27 56 55.32	1482.5	12.4	2	59.19
18989	5 4733	7.9 K5	21 11 10.041	298.26	-.12	5 45 54.41	1484.6	14.3	2	58.14
18993	- 3 5155	8.4 K0	21 11 29.440	311.96	-.29	- 2 57 33.97	1486.5	14.9	2	58.21
19002	4 4631	7.6 K5	21 12 0.682	300.32	-.15	4 28 54.69	1489.5	14.3	2	57.15
19008	13 4647	7.6 K0	21 12 15.413	285.17	.01	13 56 2.79	1491.0	13.6	2	58.65
19009	21 4501	7.6 K0	21 12 18.388	271.29	.12	21 59 3.92	1491.2	12.9	2	57.66
19014	7 4650	8.6 K5	21 12 31.765	295.62	-.09	7 28 47.52	1492.5	14.1	2	57.68
19019	- 0 4189	8.4 K0	21 12 56.824	308.07	-.24	- 0 28 39.34	1495.0	14.6	2	57.60

Position 1950 + T = Position 1950 + T (1st term) + T² (2nd term) + T' (P. M.).

T in centuries from 1900.0, T' in centuries from epoch.

No.	B. D. No.		M + Sp.	R.A. 1950	Precession		Decl. 1950	Precession		No. Obs.	Epoch 1900+
					1st Term	2nd Term		1st Term	2nd Term		
19032	10	4500	8.2 M0	21 13 42.143	290.54	-.04	10 43 15.48	1499.4	13.8	2	57.59
19044	11	4528	8.5 K0	21 14 23.450	288.34	-.02	12 7 27.50	1503.4	13.6	2	57.67
19047	- 4	5404	8.2 K0	21 14 33.566	314.20	-.32	- 4 26 59.08	1504.3	14.8	2	57.70
19058	74	912	8.7 F2	21 15 39.458	-7.44	-4.39	74 24 46.05	1510.7	-.7	2	57.20
19062	17	4546	7.1 K5	21 16 5.185	279.69	.07	17 30 34.56	1513.1	13.1	2	57.23
19067	15	4388	8.7 K5	21 16 21.364	282.05	.05	16 6 36.29	1514.7	13.1	2	57.68
19078	67	1303	8.4 K	21 17 11.278	87.76	-1.40	68 21 16.59	1519.4	3.8	2	57.67
19085	12	4600	7.2 K5	21 17 40.165	287.66	.00	12 45 1.70	1522.2	13.3	2	58.58
19087	49	3501	8.7 F0	21 17 42.703	205.92	.24	49 24 8.41	1522.4	9.4	2	58.21
19088	- 2	5507	8.4 G5	21 17 43.726	309.93	-.26	- 1 43 2.41	1522.5	14.4	2	57.61
19089	5	4759	8.3 A2	21 17 48.674	297.69	-.11	6 19 50.28	1523.0	13.8	2	58.22
19097	36	4520	8.1 M0	21 18 12.958	242.97	.28	36 35 38.91	1525.3	11.2	2	57.67
19109	20	4894	7.8 K2	21 19 10.431	274.04	.12	21 6 11.54	1530.7	12.6	2	58.15
19115	81	735	8.8 K0	21 19 30.937	-272.19	-21.40	81 32 57.60	1532.7	-13.1	2	57.57
19116	41	4109	8.9 A0	21 19 34.062	230.67	.31	41 41 9.41	1532.9	10.5	2	57.14
19122	23	4296	8.9 A3	21 19 42.890	269.73	.16	23 36 40.37	1533.8	12.3	2	57.16
19124	58	2255	8.2 G5	21 19 47.792	165.15	-.05	58 50 16.05	1534.2	7.4	2	57.68
19126	19	4692	8.4 F5	21 19 57.705	276.40	.11	19 48 6.64	1535.1	12.6	2	57.20
19128	7	4671	8.0 K0	21 20 5.525	295.90	-.08	7 34 50.17	1535.9	13.5	2	58.14
19134	63	1720	7.2 K2	21 20 38.258	130.64	-.54	64 9 1.07	1538.9	5.8	2	58.12
19139	38	4472	7.3 K0	21 20 54.790	239.35	.30	38 29 37.26	1540.5	10.8	3	58.93
19148	13	4694	7.5 K2	21 22 16.690	285.76	.03	14 15 37.92	1548.1	12.9	2	58.13
19164	9	4805	8.2 K5	21 23 0.989	293.31	-.05	9 24 50.05	1552.2	13.2	3	57.64
19171	45	3531	7.6 K0	21 23 29.836	220.50	.31	45 50 24.92	1554.8	9.8	2	57.24
19172	54	2536	8.3 G5	21 23 33.931	186.35	.15	55 8 6.14	1555.2	8.2	2	57.60
19185	42	4098	8.1 F5	21 24 30.789	229.40	.33	42 54 8.77	1560.4	10.2	2	57.24
19190	75	788	7.4 K0	21 24 36.622	-22.79	-5.41	75 45 17.84	1561.0	-1.4	2	57.08
19192	55	2587	8.0 K2	21 24 41.560	181.75	.12	56 17 28.71	1561.4	8.0	2	58.07
19202	23	4317	8.2 K5	21 25 12.805	269.94	.18	24 6 48.01	1564.3	12.0	2	57.66
19217	41	4153	8.8 A0	21 26 30.672	233.54	.33	41 39 25.51	1571.3	10.2	2	59.19
19232	38	4509	8.1 M0	21 27 24.532	241.83	.33	38 25 59.83	1576.2	10.6	2	57.66
19240	- 2	5551	8.4 A2	21 27 39.145	309.85	-.26	- 1 45 15.75	1577.5	13.6	2	57.20
19247	29	4426	8.1 A0	21 27 57.321	260.45	.25	29 40 12.40	1579.1	11.3	2	58.11
19258	22	4411	7.3 K0	21 29 5.542	273.43	.17	22 31 14.63	1585.2	11.9	2	57.61
19260	77	823	7.6 K0	21 29 22.974	-67.53	-7.95	77 42 56.08	1586.8	-3.3	2	58.13
19270	49	3544	8.3 A2	21 29 46.130	212.13	.32	49 26 57.36	1588.8	9.1	2	57.68
19276	72	991	8.1 K5	21 30 22.810	37.54	-3.14	73 15 22.52	1592.1	1.3	2	58.20
19285	56	2590	8.0 K0	21 30 59.231	181.26	.14	57 18 59.34	1595.3	7.7	2	57.12
19294	- 0	4238	8.4 K2	21 31 21.727	307.32	-.22	0 0 5.51	1597.3	13.2	4	58.39
19295	26	4197	7.7 K5	21 31 22.732	265.53	.24	27 22 47.96	1597.4	11.3	2	57.65
19313	38	4539	8.8 K0	21 32 43.306	241.81	.36	39 17 27.69	1604.5	10.2	2	58.13
19323	30	4479	8.0 K0	21 33 35.578	259.87	.29	30 47 7.10	1609.0	11.0	2	57.60
19325	5	4824	8.0 K2	21 33 44.398	299.08	-.10	5 54 45.94	1609.8	12.6	2	57.15
19348	14	4647	7.2 K0	21 35 18.444	286.21	.07	14 59 27.42	1617.9	12.0	2	58.13
19349	21	4587	8.2 K5	21 35 25.564	275.91	.17	21 43 56.21	1618.5	11.6	2	57.60
19351	50	3382	7.1 K5	21 35 32.273	210.63	.35	50 50 19.56	1619.1	8.7	2	57.24
19361	- 4	5503	8.4 K2	21 36 2.614	312.55	-.30	- 3 48 33.46	1621.7	13.0	2	58.65
19362	13	4751	8.2 K2	21 36 5.445	288.54	.04	13 27 29.11	1621.9	12.0	2	57.73
19364	27	4122	8.6 A2	21 36 17.462	266.58	.26	27 27 44.30	1623.0	11.1	4	58.92
19373	35	4600	8.2 M0	21 37 0.914	250.99	.35	35 49 2.92	1626.7	10.3	2	57.21

Position 1950 + T = Position 1950 + T (1st term) + T² (2nd term) + T' (P. M.).

T in centuries from 1900.0, T' in centuries from epoch.

No.	B. D. No.	M + Sp.	R.A. 1950	Precession		Decl. 1950	Precession		No. Obs.	Epoch 1900+
				1st Term	2nd Term		1st Term	2nd Term		
19374	44 3892	8.4 K0	21 37 9.753	229.91	.39	44 47 16.41	1627.4	9.4	2	57.58
19376	1 4518	7.9 K0	21 37 13.160	304.73	-.18	1 54 44.21	1627.7	12.6	4	58.89
19381	63 1759	8.0 K5	21 37 27.850	146.59	-.29	64 9 32.06	1629.0	5.9	2	57.24
19388	16 4575	8.8 K2	21 37 59.235	283.48	.11	17 4 58.06	1631.6	11.7	2	58.15
19402	18 4837	8.2 K0	21 39 3.852	281.57	.13	18 28 34.46	1637.1	11.5	2	57.66
19406	46 3407	7.0 K2	21 39 17.955	223.86	.40	47 19 1.08	1638.3	9.0	2	57.09
19410	31 4529	8.6 K5	21 39 36.994	259.59	.32	31 51 14.02	1639.9	10.5	2	57.21
19412	20 4991	8.2 K0	21 39 46.842	277.87	.17	21 0 2.40	1640.7	11.3	2	58.13
19414	70 1192	7.1 K5	21 39 47.464	89.92	-1.60	70 33 28.56	1640.7	3.4	2	58.12
19415	32 4232	8.2 K2	21 39 48.815	257.86	.33	32 48 40.78	1640.9	10.4	2	57.70
19417	8 4720	7.2 K0	21 40 0.686	295.60	-.04	8 42 7.80	1641.8	12.0	2	57.24
19434	10 4608	7.1 K5	21 41 19.842	292.73	.01	10 52 18.40	1648.5	11.8	3	57.66
19439	23 4381	8.4 K0	21 41 35.062	273.71	.22	23 53 37.47	1649.7	11.0	2	57.58
19443	68 1244	7.7 K2	21 41 53.379	111.83	-1.03	68 49 26.85	1651.2	4.3	2	58.57
19449	42 4195	7.2 K5	21 42 45.721	236.60	.44	43 11 54.99	1655.5	9.4	2	57.59
19453	- 3 5296	8.0 F0	21 42 53.135	311.51	-.28	- 3 10 51.61	1656.1	12.4	2	57.70
19455	0 4776	8.6 K2	21 43 11.321	305.44	-.18	1 26 18.47	1657.6	12.2	2	57.21
19467	21 4614	8.4 K2	21 44 9.450	277.77	.19	21 36 8.26	1662.4	11.0	2	57.73
19477	3 4613	7.7 K0	21 44 39.287	301.90	-.12	4 10 15.46	1664.8	11.9	2	58.65
19483	18 4861	7.9 K2	21 45 0.727	281.96	.15	18 51 54.26	1666.5	11.1	2	57.75
19487	73 945	8.8 K5	21 45 27.494	43.19	-3.34	74 20 50.64	1668.7	1.4	3	58.62
19496	69 1197	8.9 K0	21 46 2.619	107.33	-1.18	69 45 51.60	1671.5	4.0	2	58.15
19498	45 3680	7.6 K0	21 46 11.966	232.19	.47	45 34 16.74	1672.3	9.0	2	57.08
19501	75 801	8.5 K2	21 46 26.916	7.05	-5.00	76 14 26.07	1673.5	-.1	2	58.59
19507	57 2402	8.3 A2	21 46 49.238	191.65	.31	57 37 16.34	1675.3	7.3	2	59.09
19508	16 4607	8.2 K0	21 46 53.822	284.44	.13	17 20 20.59	1675.6	11.0	2	58.65
19510	41 4277	7.5 K5	21 47 5.923	241.12	.46	42 7 29.00	1676.6	9.3	2	58.67
19513	80 706	8.3 F2	21 47 16.459	-128.59	-13.79	80 28 37.34	1677.5	-5.5	2	58.60
19514	7 4752	8.7 A0	21 47 16.545	297.01	-.04	8 1 56.68	1677.5	11.5	2	58.65
19516	4 4753	7.4 K0	21 47 20.640	300.96	-.10	4 58 44.13	1677.7	11.7	2	58.14
19542	22 4493	7.6 K0	21 49 0.160	277.20	.23	22 37 29.76	1685.7	10.6	2	57.17
19547	- 1 4212	8.5 F8	21 49 30.023	309.24	-.24	- 1 31 12.88	1688.0	11.8	4	59.14
19548	31 4562	7.5 K2	21 49 32.865	262.89	.36	31 40 37.09	1688.3	10.0	2	57.73
19550	13 4797	8.3 K0	21 49 37.332	288.89	.09	14 21 59.76	1688.6	11.0	2	57.24
19555	47 3584	6.8 K5	21 50 1.689	227.04	.49	48 12 6.40	1690.5	8.5	2	58.12
19560	50 3465	8.4 A2	21 50 18.875	218.24	.48	51 11 46.41	1691.9	8.2	2	58.60
19562	12 4705	7.4 K0	21 50 24.633	290.47	.07	13 15 11.32	1692.3	11.0	2	58.59
19570	77 836	8.6 K0	21 50 50.404	-15.52	-6.42	77 31 59.74	1694.3	-1.0	2	58.20
19576	35 4664	7.8 K5	21 51 13.374	255.81	.42	35 53 26.72	1696.1	9.6	2	58.14
19586	3 4630	8.7 F0	21 51 43.092	302.27	-.11	4 4 29.54	1698.4	11.3	2	58.13
19593	8 4760	8.5 K5	21 52 7.072	296.68	-.02	8 33 17.58	1700.3	11.1	2	58.15
19597	- 4 5570	8.2 K5	21 52 22.369	312.83	-.30	- 4 27 25.80	1701.4	11.7	2	59.06
19606	68 1258	8.3 K2	21 52 46.202	127.98	-.70	68 33 41.59	1703.3	4.6	2	57.73
19613	30 4558	7.5 K0	21 53 11.753	265.82	.36	30 35 27.19	1705.2	9.8	2	58.13
19619	53 2740	7.6 K5	21 53 25.669	211.05	.47	53 56 27.24	1706.3	7.7	2	58.12
19631	11 4695	7.7 K5	21 54 4.277	291.96	.06	12 25 14.21	1709.2	10.7	2	56.69
19641	45 3740	8.5 M0	21 55 3.846	236.61	.52	45 35 3.83	1713.8	8.6	2	57.68
19648	49 3692	7.2 K0	21 55 25.538	224.24	.53	50 15 2.09	1715.4	8.1	2	57.24
19686	0 4807	8.2 G5	21 57 55.154	306.17	-.17	0 58 36.21	1726.6	11.0	3	58.69
19689	2 4457	8.8 F5	21 58 8.723	304.31	-.13	2 33 5.88	1727.6	10.9	2	56.66

Position 1950 + T = Position 1950 + T (1st term) + T² (2nd term) + T' (P. M.).

T in centuries from 1900.0, T' in centuries from epoch.

No.	B.D. No.	M + Sp.	R.A. 1950	Precession		Decl. 1950	Precession		No. Obs.	Epoch 1900+
				1st Term	2nd Term		1st Term	2nd Term		
19699	64 1613	7.3 K5	21 58 42.653	161.39	-.02	65 11 31.96	1730.1	5.6	2	56.69
19717	- 1 4236	7.6 K2	21 59 58.695	308.68	-.22	- 1 9 38.32	1735.6	10.9	2	56.66
19750	73 957	7.5 K2	22 2 6.510	84.22	-2.13	73 34 56.18	1744.9	2.6	2	57.11
19754	29 4573	7.7 K5	22 2 20.741	269.87	.38	29 42 58.83	1745.9	9.3	2	56.69
19756	31 4617	8.4 G5	22 2 27.784	266.66	.42	31 48 32.70	1746.4	9.2	2	56.63
19757	20 5074	8.0 K2	22 2 35.408	282.43	.24	20 49 1.21	1747.0	9.7	2	57.66
19761	- 2 5689	8.3 F8	22 2 44.938	309.24	-.22	- 1 40 3.16	1747.7	10.6	2	57.23
19765	61 2243	8.6 A0	22 2 55.884	183.62	.32	62 9 52.68	1748.4	6.2	2	57.67
19770	5 4947	7.5 K0	22 3 11.073	300.79	-.06	5 43 21.55	1749.5	10.4	2	57.23
19771	6 4957	8.6 F0	22 3 17.422	299.62	-.03	6 44 40.39	1749.9	10.3	3	57.98
19774	- 3 5375	8.4 K2	22 3 26.788	311.14	-.26	- 3 20 59.80	1750.6	10.7	2	58.19
19800	24 4537	8.3 F2	22 5 19.905	277.75	.32	24 46 16.47	1758.5	9.4	2	56.69
19804	38 4689	8.0 K5	22 5 37.283	255.36	.54	39 5 53.85	1759.8	8.5	2	57.21
19806	3 4665	8.4 K0	22 5 46.687	302.55	-.08	4 16 21.99	1760.4	10.2	4	57.90
19810	- 0 4310	8.6 F5	22 6 6.590	307.53	-.18	- 0 11 2.46	1761.8	10.3	2	58.20
19823	0 4829	8.6 K0	22 6 49.602	305.81	-.15	1 22 32.26	1764.8	10.2	3	59.00
19825	67 1405	8.1 F5	22 6 53.110	148.47	-.26	68 16 24.91	1765.1	4.8	2	57.11
19832	20 5090	8.3 K0	22 7 34.718	283.29	.25	20 53 51.55	1767.9	9.3	2	56.69
19849	59 2477	8.5 K5	22 8 33.316	200.23	.53	59 45 20.49	1771.9	6.4	2	57.20
19875	54 2702	6.9 K2	22 10 30.786	220.08	.66	54 51 1.27	1779.9	7.0	2	58.58
19881	- 0 4322	7.8 K5	22 10 46.480	307.33	-.17	- 0 0 21.29	1780.9	9.9	2	57.25
19888	41 4420	8.3 K0	22 11 1.972	253.14	.61	41 32 29.94	1781.9	8.1	2	57.24
19902	56 2736	8.5 A2	22 11 40.203	212.24	.64	57 23 29.24	1784.5	6.7	2	58.20
19906	17 4714	8.1 K2	22 11 55.961	287.87	.21	17 46 18.61	1785.5	9.1	2	57.66
19909	79 728	8.5 K2	22 12 7.156	-29.78	-8.94	79 48 34.06	1786.3	-1.4	2	57.19
19916	35 4746	7.7 K2	22 12 34.489	263.62	.54	35 54 23.54	1788.1	8.3	3	58.30
19917	20 5106	7.8 F8	22 12 39.434	284.14	.27	21 1 47.08	1788.4	9.0	2	58.12
19918	66 1490	8.7 A0	22 12 43.254	167.45	.14	66 41 1.45	1788.7	5.1	2	57.67
19932	15 4604	8.1 F8	22 13 40.638	290.44	.17	15 46 16.74	1792.4	9.1	2	57.25
19939	31 4668	7.3 K5	22 14 15.326	269.62	.48	32 22 18.39	1794.7	8.4	2	57.58
19941	50 3637	8.2 K0	22 14 20.947	234.36	.71	50 50 9.88	1795.0	7.2	2	57.11
19949	4 4837	7.4 M0	22 14 58.547	302.27	-.05	4 53 38.56	1797.5	9.4	2	58.13
19963	49 3805	7.4 K2	22 15 51.771	238.47	.72	49 34 45.93	1800.9	7.2	2	57.67
19968	9 5019	7.8 K2	22 16 9.057	296.90	.06	10 6 15.45	1802.0	9.1	2	58.26
19969	7 4842	7.5 K2	22 16 11.590	299.51	.01	7 36 52.44	1802.2	9.2	3	58.30
19973	41 4456	7.8 K2	22 16 38.123	255.09	.65	41 53 29.51	1803.8	7.7	2	58.58
19978	14 4772	6.9 K5	22 16 57.802	291.44	.17	15 17 39.98	1805.1	8.9	2	56.70
19989	46 3661	8.1 K5	22 17 46.425	246.27	.71	46 38 55.96	1808.2	7.4	2	58.33
19992	10 4731	7.7 K0	22 17 52.864	296.36	.08	10 47 14.01	1808.6	8.9	2	57.75
20003	22 4618	7.9 K0	22 18 21.112	283.11	.32	22 48 32.42	1810.3	8.5	2	58.66
20010	72 1029	8.6 K2	22 18 43.899	122.87	-.99	72 47 19.84	1811.8	3.4	2	56.66
20023	43 4178	7.6 K2	22 19 51.244	253.68	.69	43 29 33.05	1815.9	7.4	2	58.80
20025	- 4 5663	8.1 K0	22 20 1.805	311.26	-.25	- 3 59 23.35	1816.6	9.2	2	58.61
20038	16 4724	7.2 K2	22 21 2.931	289.80	.23	17 24 10.05	1820.3	8.5	2	58.10
20045	21 4745	7.9 K2	22 21 25.484	284.98	.32	21 51 11.04	1821.7	8.3	2	58.20
20047	66 1503	8.0 K2	22 21 30.722	176.79	.35	66 54 10.94	1822.0	5.0	2	57.67
20061	34 4674	7.8 K5	22 22 13.017	268.35	.57	35 10 45.97	1824.6	7.7	2	58.13
20062	9 5040	7.5 K5	22 22 14.296	298.02	.07	9 33 20.80	1824.7	8.6	2	58.31
20064	31 4689	8.1 K2	22 22 21.871	272.56	.52	32 11 42.39	1825.1	7.8	2	58.15
20068	10 4744	8.1 G0	22 22 51.042	296.37	.10	11 16 22.49	1826.9	8.5	2	58.28

Position 1950 + T = Position 1950 + T (1st term) + T² (2nd term) + T' (P. M.).

T in centuries from 1900.0, T' in centuries from epoch.

No.	B.D. No.		M + Sp.	R.A. 1950	Precession		Decl. 1950	Precession		No. Obs.	Epoch 1900+
					1st Term	2nd Term		1st Term	2nd Term		
20072	62	2074	7.6 K0	22 23 1.876	198.17	.66	63 18 58.34	1827.5	5.5	2	57.14
20075	12	4820	8.7 F0	22 23 18.846	294.79	.14	12 54 10.60	1828.5	8.4	2	58.20
20082	53	2874	7.0 K0	22 23 49.198	233.59	.83	53 33 42.59	1830.3	6.5	2	57.12
20085	- 1	4294	8.4 K2	22 23 55.815	308.11	-.17	- 0 49 19.23	1830.7	8.7	2	57.21
20102	0	4876	8.2 F0	22 25 16.445	306.01	-.11	1 24 6.19	1835.5	8.6	2	57.70
20107	64	1665	8.2 G5	22 25 28.912	191.36	.61	65 12 39.55	1836.2	5.2	2	58.21
20109	2	4508	8.8 K0	22 25 34.578	304.99	-.09	2 29 58.86	1836.5	8.5	2	58.13
20112	24	4593	7.5 K0	22 25 51.041	282.88	.39	24 36 51.92	1837.5	7.8	2	59.06
20117	46	3711	8.4 B9	22 26 17.270	249.97	.79	47 11 38.30	1839.0	6.9	2	58.14
20120	47	3809	8.3 K0	22 26 25.173	247.81	.81	48 17 13.21	1839.5	6.8	2	58.15
20126	- 3	5452	8.4 G5	22 26 45.763	310.55	-.23	- 3 29 4.98	1840.7	8.6	2	57.21
20129	4	4860	8.4 K0	22 27 4.025	302.36	-.02	5 23 6.86	1841.7	8.3	4	58.70
20134	44	4147	8.1 A0	22 27 32.141	255.30	.77	44 45 58.23	1843.3	6.9	2	58.27
20137	45	3958	7.7 K2	22 27 45.277	254.09	.79	45 29 16.86	1844.1	6.9	2	58.35
20141	75	832	8.0 K5	22 27 57.023	98.15	-2.09	75 58 45.83	1844.8	2.4	2	59.24
20148	3	4716	7.6 K0	22 28 8.595	303.61	-.05	4 4 31.09	1845.4	8.3	2	59.25
20149	17	4758	8.0 K2	22 28 12.662	290.52	.26	17 52 55.86	1845.6	7.9	2	58.66
20152	7	4883	7.8 K0	22 28 27.049	299.87	.05	8 10 12.34	1846.5	8.1	2	59.26
20154	14	4811	8.6 K2	22 28 43.113	293.24	.20	15 12 33.53	1847.4	7.9	2	57.68
20157	38	4787	7.9 A3	22 29 3.714	265.53	.68	38 59 14.34	1848.5	7.1	3	58.30
20169	20	5180	7.7 K5	22 30 7.789	287.93	.33	20 48 19.48	1852.1	7.7	2	58.60
20170	0	4892	7.9 K0	22 30 7.952	306.57	-.12	0 50 45.62	1852.1	8.1	2	57.66
20182	65	1780	8.9 K0	22 31 9.864	195.25	.72	65 44 28.99	1855.6	5.0	2	58.15
20186	24	4608	8.5 K0	22 31 19.742	283.98	.42	24 50 43.81	1856.1	7.4	2	56.70
20192	42	4441	7.8 K5	22 31 32.842	260.05	.78	43 13 37.39	1856.8	6.7	2	57.75
20194	8	4892	8.2 F5	22 31 37.367	299.21	.08	9 10 10.09	1857.1	7.8	2	58.26
20201	12	4843	7.7 K0	22 31 57.102	295.63	.17	13 9 6.02	1858.2	7.7	2	58.66
20214	57	2562	7.1 K5	22 32 38.242	228.07	.95	57 54 16.09	1860.4	5.8	2	58.76
20217	30	4744	7.3 K2	22 32 43.060	278.02	.54	30 32 39.91	1860.7	7.2	2	57.69
20219	9	5068	7.7 K2	22 33 9.392	298.55	.10	10 4 6.29	1862.1	7.7	2	57.60
20225	4	4880	8.8 G0	22 33 28.446	302.72	.00	5 20 21.78	1863.1	7.7	2	58.22
20240	47	3856	8.3 A5	22 34 40.564	254.06	.88	47 37 26.80	1867.0	6.3	4	58.43
20241	1	4634	8.1 K5	22 34 43.635	305.91	-.09	1 39 55.38	1867.1	7.7	2	57.25
20256	43	4255	8.6 K0	22 35 23.185	260.32	.83	44 16 6.45	1869.2	6.4	2	57.59
20264	67	1454	8.5 G0	22 35 48.197	189.60	.70	67 49 18.33	1870.5	4.6	2	58.73
20270	20	5195	7.4 K2	22 36 4.184	288.99	.35	20 58 1.16	1871.4	7.1	2	58.14
20273	- 3	5482	8.4 G5	22 36 21.436	310.07	-.20	- 3 17 10.14	1872.3	7.7	2	58.59
20280	- 1	4336	8.4 F5	22 36 42.313	308.14	-.15	- 0 58 36.16	1873.3	7.6	2	57.69
20284	33	4556	8.7 F8	22 36 57.721	275.83	.62	33 37 43.79	1874.1	6.7	2	57.68
20291	30	4761	7.7 K2	22 37 22.955	279.14	.57	30 53 5.43	1875.4	6.8	2	56.70
20298	86	335	8.3 A0	22 37 50.791	-594.60	-131.00	87 1 30.58	1876.9	-15.6	2	57.67
20315	11	4859	8.0 K5	22 39 16.176	297.26	.17	12 18 45.85	1881.2	7.1	4	58.92
20316	9	5090	8.5 K2	22 39 18.626	298.99	.13	10 15 24.29	1881.3	7.1	2	56.67
20322	7	4913	7.8 G5	22 39 39.518	301.03	.07	7 48 47.20	1882.4	7.1	2	57.69
20323	0	4911	8.4 K0	22 39 50.285	306.92	-.10	0 30 30.75	1882.9	7.3	2	57.68
20333	4	4896	7.0 K2	22 40 21.044	303.58	0.00	4 42 22.79	1884.4	7.2	3	58.29
20338	15	4695	8.5 K2	22 40 49.450	294.34	.26	16 0 55.00	1885.8	6.9	2	58.21
20344	39	4916	8.7 K5	22 41 10.916	269.61	.77	39 56 1.30	1886.9	6.2	2	57.60
20356	20	5217	7.6 K0	22 41 50.516	290.46	.37	20 40 27.28	1888.8	6.7	2	58.20
20362	12	4880	8.5 K0	22 42 17.221	297.02	.20	13 3 37.36	1890.1	6.8	2	57.66

Position 1950 + T = Position 1950 + T (1st term) + T² (2nd term) + T' (P. M.).

T in centuries from 1900.0, T' in centuries from epoch.

No.	B. D. No.		M + Sp.	R.A. 1950		Precession		Decl. 1950		Precession		No. Obs.	Epoch 1900+
						1st Term	2nd Term			1st Term	2nd Term		
20369	81	788	7.6 K0	22 43	1.035	7.87	-9.14	81 38	1.41	1892.3	-.2	2	57.58
20373	- 1	4346	7.8 K0	22 43	15.484	308.24	-.14	- 1 11	46.96	1892.9	7.0	2	57.24
20376	10	4815	7.2 G5	22 43	24.343	298.86	.15	10 56	12.86	1893.4	6.7	2	58.59
20380	26	4499	8.7 A2	22 43	46.833	285.50	.50	26 34	59.12	1894.4	6.4	2	58.21
20381	37	4686	7.3 K2	22 43	49.444	272.98	.77	38 14	8.88	1894.6	6.1	3	58.30
20387	73	994	7.4 K5	22 44	20.880	153.34	-.08	74 17	26.50	1896.1	3.2	2	57.67
20389	21	4828	7.5 K5	22 44	25.341	289.46	.41	22 26	5.92	1896.3	6.4	2	58.19
20408	0	4926	8.6 K0	22 45	32.983	306.53	-.08	1 4	33.41	1899.4	6.7	2	57.68
20428	7	4932	8.8 K5	22 46	26.287	301.19	.10	8 16	41.56	1901.9	6.5	2	58.59
20438	41	4618	8.3 K5	22 47	23.032	270.12	.87	41 47	3.72	1904.5	5.7	2	57.20
20442	12	4894	8.7 G0	22 47	46.717	298.11	.20	12 32	29.28	1905.6	6.3	2	57.69
20443	19	5012	8.9 K0	22 47	54.181	292.24	.37	20 2	57.74	1905.9	6.2	2	57.67
20448	24	4673	8.2 K2	22 48	20.317	287.98	.49	25 12	21.02	1907.1	6.0	2	57.75
20462	65	1817	7.2 K2	22 49	0.432	213.78	1.20	66 28	21.69	1908.9	4.3	2	57.12
20478	39	4953	7.8 K5	22 50	3.289	273.64	.85	39 59	58.53	1911.6	5.6	2	57.20
20480	- 3	5521	7.8 G5	22 50	5.242	309.35	-.17	- 2 53	30.92	1911.7	6.4	3	57.10
20486	49	3959	6.9 M0	22 50	28.265	259.01	1.10	50 26	20.47	1912.7	5.2	2	58.22
20488	26	4524	7.4 K0	22 50	45.289	287.32	.54	26 42	41.99	1913.5	5.8	2	57.76
20495	1	4662	7.0 K5	22 51	18.873	306.24	-.05	1 34	36.90	1915.0	6.2	2	57.24
20500	- 0	4432	8.6 K5	22 51	40.641	307.23	-.09	0 8	54.78	1915.9	6.2	2	56.70
20502	- 1	4355	8.4 G5	22 51	43.872	308.23	-.12	- 1 18	55.70	1916.0	6.2	4	58.89
20504	21	4850	8.1 K5	22 51	48.899	291.39	.43	22 8	7.23	1916.2	5.8	2	58.60
20509	10	4844	7.9 F2	22 52	6.926	300.01	.17	10 37	52.67	1917.0	6.0	2	57.75
20512	6	5083	7.6 K2	22 52	12.898	302.55	.09	6 59	27.65	1917.3	6.0	2	57.66
20520	84	516	7.5 M3	22 52	38.188	-116.44	-27.49	84 46	48.27	1918.3	-2.9	2	57.73
20521	78	813	7.2 K5	22 52	41.162	114.87	-1.84	78 38	6.35	1918.4	2.0	2	57.66
20529	18	5069	7.9 M0	22 53	12.831	294.40	.36	18 36	29.09	1919.8	5.8	2	58.30
20544	71	1173	8.1 K5	22 54	11.758	192.58	1.04	71 44	55.95	1922.2	3.6	2	57.20
20548	25	4848	8.7 K0	22 54	31.579	288.86	.54	26 7	13.70	1923.0	5.5	2	57.24
20550	23	4640	8.3 K0	22 54	37.116	290.26	.50	24 24	52.57	1923.2	5.5	3	58.01
20552	16	4842	8.1 K0	22 54	43.396	295.66	.33	17 15	38.80	1923.5	5.6	2	58.22
20553	31	4816	7.7 K2	22 54	53.258	283.99	.68	31 55	54.49	1923.9	5.4	2	57.67
20555	36	4970	7.7 K5	22 55	14.765	279.15	.81	37 6	15.47	1924.8	5.3	2	58.59
20556	38	4903	7.3 K2	22 55	17.961	277.05	.86	39 7	16.23	1924.9	5.2	2	58.66
20569	- 1	4364	7.3 K0	22 56	18.852	307.70	-.09	- 0 35	2.98	1927.4	5.7	2	57.68
20571	49	4003	7.8 K5	22 56	23.440	263.02	1.17	50 25	49.16	1927.6	4.8	2	58.35
20573	26	4539	7.7 K0	22 56	30.390	288.52	.58	27 13	52.77	1927.8	5.3	2	58.30
20581	40	4958	7.9 K5	22 57	3.537	276.25	.92	40 36	53.38	1929.2	5.0	3	58.30
20584	43	4359	7.5 K2	22 57	13.682	272.86	.99	43 38	44.62	1929.5	5.0	2	57.75
20585	24	4694	8.6 A5	22 57	20.659	290.22	.53	25 22	31.80	1929.8	5.3	3	58.03
20591	73	1001	8.7 K0	22 57	52.627	185.33	.96	73 39	18.14	1931.1	3.2	2	58.13
20594	34	4817	8.0 K2	22 58	3.672	281.88	.79	35 30	12.71	1931.5	5.1	2	57.68
20596	47	4007	8.1 K2	22 58	9.349	268.25	1.11	47 39	9.81	1931.7	4.8	2	57.24
20603	54	2895	8.2 G5	22 58	31.655	256.86	1.32	54 56	32.13	1932.6	4.5	2	57.67
20606	0	4955	8.2 M0	22 58	42.876	306.82	-.05	0 48	55.96	1933.0	5.5	2	58.22
20612	13	5041	8.3 K5	22 59	15.445	298.31	.28	14 27	0.80	1934.3	5.3	2	58.20
20613	44	4307	7.6 K0	22 59	17.450	272.05	1.06	45 14	28.12	1934.3	4.8	2	57.66
20615	- 3	5553	7.8 K5	22 59	20.752	309.13	-.15	- 2 57	17.80	1934.5	5.5	2	57.20
20620	75	867	7.5 G5	22 59	35.730	169.21	.54	75 51	13.66	1935.0	2.8	4	58.70
20626	28	4506	8.4 K0	22 59	49.491	288.00	.64	29 7	34.59	1935.6	5.0	2	58.22

Position 1950 + T = Position 1950 + T (1st term) + T² (2nd term) + T' (P. M.).

T in centuries from 1900.0, T' in centuries from epoch.

No.	B.D. No.	M + Sp.	R.A. 1950	Precession		Decl. 1950	Precession		No. Obs.	Epoch 1900+
				1st Term	2nd Term		1st Term	2nd Term		
20630	6 5107	7.9 K2	23 0 20.738	302.88	.11	7 21 37.95	1936.7	5.3	2	58.76
20631	63 1917	7.7 G5	23 0 22.710	237.05	1.55	63 56 28.61	1936.8	4.0	3	57.76
20635	26 4555	8.6 F2	23 0 36.926	289.56	.60	27 25 32.69	1937.4	5.0	2	58.22
20638	41 4668	8.1 M0	23 0 48.145	276.65	.98	41 57 3.27	1937.8	4.7	2	58.22
20646	52 3360	7.1 K0	23 1 15.745	262.32	1.30	53 1 58.13	1938.8	4.4	2	58.13
20657	5 5128	8.4 A0	23 2 25.952	303.69	.09	6 14 50.37	1941.4	5.1	2	57.67
20660	16 4865	7.9 K5	23 2 38.524	297.17	.35	17 3 25.75	1941.8	5.0	2	58.15
20672	8 4993	7.8 M0	23 3 20.831	302.37	.15	8 37 32.87	1943.3	5.0	2	56.70
20675	68 1353	8.9 A5	23 3 48.277	222.81	1.66	69 0 23.06	1944.3	3.5	2	57.59
20677	37 4765	7.9 K0	23 4 2.181	281.82	.89	38 17 57.42	1944.8	4.6	3	58.35
20684	17 4868	8.3 F8	23 4 35.331	297.12	.38	17 41 56.37	1946.0	4.8	4	58.70
20692	58 2547	7.4 K0	23 5 17.816	255.33	1.53	58 43 8.19	1947.4	4.0	2	57.73
20694	29 4863	6.9 K5	23 5 23.103	289.00	.69	30 10 7.30	1947.6	4.6	2	57.29
20704	40 5001	8.9 K0	23 5 52.347	280.38	.98	40 45 25.64	1948.6	4.4	2	58.25
20712	26 4569	8.2 K0	23 6 20.493	291.20	.63	27 29 15.24	1949.6	4.5	2	57.25
20717	7 4980	8.8 K0	23 6 29.049	303.17	.14	7 39 36.99	1949.9	4.7	4	57.74
20720	25 4885	8.3 A2	23 6 35.869	292.25	.59	26 2 40.32	1950.1	4.5	2	58.68
20721	17 4874	8.2 G5	23 6 38.621	297.23	.39	18 8 21.12	1950.2	4.6	3	58.67
20723	1 4687	7.6 K2	23 6 49.227	306.33	-.01	1 52 23.07	1950.6	4.7	2	58.15
20725	62 2173	7.1 K2	23 6 54.055	248.28	1.68	62 32 40.09	1950.7	3.7	2	58.18
20729	23 4683	8.6 A3	23 7 7.030	293.73	.54	23 59 19.62	1951.1	4.5	2	58.22
20746	20 5285	8.9 K2	23 8 10.116	295.88	.47	20 54 42.97	1953.2	4.4	2	57.22
20748	44 4342	8.1 K0	23 8 14.426	277.59	1.12	44 49 40.09	1953.4	4.1	2	57.22
20751	16 4884	8.6 G0	23 8 27.404	298.48	.36	16 32 5.21	1953.8	4.4	4	58.70
20757	- 3 5584	8.4 K2	23 9 2.541	309.06	-.13	- 3 22 21.49	1954.9	4.6	2	57.25
20764	31 4867	7.3 K0	23 9 30.607	288.80	.77	32 23 39.38	1955.8	4.2	2	57.75
20767	5 5146	8.2 K2	23 9 39.073	304.09	.11	6 20 1.14	1956.1	4.4	5	59.10
20773	- 0 4483	7.7 G5	23 10 26.516	307.45	-.05	- 0 14 28.54	1957.6	4.4	2	57.22
20777	1 4695	7.2 G5	23 10 50.608	306.13	.02	2 24 10.27	1958.3	4.3	2	58.13
20778	0 4978	7.5 F0	23 10 54.874	307.00	-.02	0 39 30.70	1958.5	4.3	2	57.73
20780	52 3391	8.1 K2	23 10 59.332	269.90	1.42	52 50 54.73	1958.6	3.8	2	57.24
20781	66 1596	7.5 M0	23 11 0.840	241.18	1.91	66 48 14.30	1958.6	3.3	2	58.29
20795	71 1190	8.2 K5	23 12 4.551	223.77	1.99	71 38 11.29	1960.6	3.0	3	58.72
20801	- 1 4409	8.8 G5	23 12 20.826	307.97	-.07	- 1 19 43.03	1961.1	4.2	2	58.35
20829	38 4965	8.3 K2	23 13 59.718	285.99	.97	38 41 9.72	1964.0	3.7	2	57.22
20831	49 4078	6.9 K5	23 14 7.582	275.22	1.37	50 23 54.35	1964.2	3.6	2	57.13
20840	- 0 4984	8.6 K0	23 14 33.113	306.89	-.01	0 57 30.06	1965.0	4.0	3	57.39
20844	3 4847	8.8 G0	23 14 45.881	305.41	.07	4 10 41.50	1965.3	3.9	2	58.68
20857	8 5039	7.7 K0	23 15 28.153	303.13	.20	9 13 48.05	1966.5	3.8	2	57.24
20867	58 2572	8.7 A5	23 16 11.676	264.74	1.76	59 12 16.55	1967.8	3.3	2	58.15
20868	32 4621	8.1 F0	23 16 12.625	290.99	.82	32 46 40.66	1967.8	3.6	2	58.27
20899	13 5096	8.2 K2	23 18 26.822	301.30	.33	14 2 25.59	1971.4	3.5	2	57.22
20902	1 4714	7.8 K0	23 18 37.942	306.52	.03	1 55 24.40	1971.7	3.6	2	57.23
20903	37 4820	7.3 K0	23 18 52.850	288.49	1.01	38 18 29.98	1972.1	3.3	2	57.68
20908	12 4974	8.1 A0	23 19 7.693	301.89	.31	12 54 47.17	1972.5	3.5	2	58.14
20923	74 1018	7.8 K0	23 20 3.059	217.63	2.37	75 30 49.91	1973.9	2.3	2	57.19
20930	50 4025	7.1 K2	23 20 27.280	279.23	1.46	50 46 24.21	1974.5	3.1	2	58.15
20935	- 4 5879	8.5 K2	23 20 48.683	308.71	-.11	- 3 29 22.87	1975.0	3.4	2	57.20
20937	51 3598	7.6 K0	23 20 59.739	278.54	1.51	51 49 41.09	1975.3	3.0	3	57.40
20954	18 5147	8.2 K2	23 21 48.262	299.82	.46	18 42 27.73	1976.5	3.2	2	57.70

Position 1950 + T = Position 1950 + T (1st term) + T² (2nd term) + T' (P. M.).

T in centuries from 1900.0, T' in centuries from epoch.

No.	B.D. No.	M + Sp.	R.A. 1950	Precession		Decl. 1950	Precession		No. Obs.	Epoch 1900+
				1st Term	2nd Term		1st Term	2nd Term		
20955	34 4916	7.5 K0	23 21 48.449	.291.78	.92	35 3 21.96	1976.5	3.1	2	58.75
20964	22 4829	8.0 K2	23 22 17.258	297.94	.59	23 12 18.75	1977.2	3.2	2	57.68
20965	6 5153	8.4 K2	23 22 27.350	304.74	.16	6 45 28.15	1977.4	3.2	2	58.20
20966	55 2956	7.6 K0	23 22 37.525	275.37	1.71	55 49 53.29	1977.7	2.8	2	57.28
20968	14 4990	8.3 A3	23 22 54.278	301.39	.38	15 24 49.65	1978.1	3.1	2	58.72
20973	25 4934	8.2 K0	23 23 5.201	296.92	.66	25 54 42.20	1978.3	3.0	2	58.22
20981	52 3446	6.8 K5	23 24 0.226	279.70	1.60	52 53 31.48	1979.6	2.8	3	58.31
20984	8 5061	8.4 G5	23 24 7.556	303.85	.23	9 28 28.48	1979.8	3.0	2	58.32
20991	54 2975	8.2 K5	23 24 31.883	278.24	1.69	54 41 56.16	1980.3	2.7	2	58.21
20996	79 781	8.4 K0	23 24 44.264	192.44	2.11	79 53 36.09	1980.6	1.7	2	58.68
21001	43 4462	8.1 K5	23 24 55.183	287.94	1.23	43 35 18.36	1980.8	2.8	2	57.67
21002	29 4930	8.0 K5	23 24 55.697	295.75	.77	29 36 58.55	1980.8	2.9	2	58.24
21003	36 5069	8.7 K0	23 25 4.089	292.16	.99	36 46 23.68	1981.0	2.8	2	58.86
21013	- 3 5644	8.4 K5	23 25 52.882	308.34	-.08	- 2 55 43.83	1982.1	2.9	2	58.74
21015	5 5176	8.3 K0	23 25 55.733	305.41	.14	5 31 55.74	1982.2	2.9	2	57.74
21031	22 4846	8.6 K0	23 27 8.910	299.27	.59	22 52 24.47	1983.7	2.7	2	58.15
21038	23 4752	7.0 K0	23 27 24.782	298.70	.64	24 29 48.38	1984.0	2.7	2	58.22
21039	34 4938	7.5 K5	23 27 25.312	294.20	.94	34 44 17.80	1984.0	2.6	2	58.15
21041	44 4430	8.8 A0	23 27 31.894	288.32	1.31	45 12 41.78	1984.2	2.5	2	57.68
21056	8 5072	8.0 K2	23 28 48.481	304.30	.25	9 29 7.86	1985.7	2.6	2	56.76
21062	48 4082	7.3 K0	23 29 1.774	286.45	1.50	49 13 54.90	1986.0	2.4	2	57.22
21063	58 2607	7.0 K5	23 29 4.491	277.19	2.01	59 11 10.48	1986.0	2.3	2	58.23
21099	- 1 4456	8.8 K2	23 31 33.426	307.53	.00	- 0 42 0.65	1988.8	2.4	3	58.15
21116	66 1619	7.2 K0	23 32 53.539	269.79	2.69	67 12 55.09	1990.3	1.9	3	58.07
21126	46 4089	9.0 K0	23 33 25.098	290.66	1.45	47 9 2.17	1990.8	2.0	4	58.76
21130	6 5174	7.7 K0	23 33 42.163	305.56	.19	6 35 3.19	1991.1	2.1	2	57.70
21138	20 5357	7.8 K0	23 34 25.532	301.48	.58	21 26 46.78	1991.8	2.0	4	58.48
21141	34 4966	7.9 K2	23 34 34.104	296.76	1.01	35 31 21.12	1991.9	2.0	2	58.28
21142	37 4872	8.2 K2	23 34 34.989	295.58	1.11	38 27 42.31	1991.9	2.0	2	57.68
21147	55 2990	7.2 K5	23 34 48.683	285.92	1.89	55 36 59.84	1992.2	1.9	2	57.75
21150	18 5180	8.9 K0	23 34 56.090	302.16	.53	19 30 15.44	1992.3	2.0	2	58.69
21151	36 5087	8.7 K5	23 34 56.857	296.16	1.08	37 27 45.96	1992.3	1.9	2	58.85
21154	68 1384	8.0 K2	23 35 22.053	270.38	2.94	68 47 51.41	1992.7	1.7	3	58.72
21163	64 1835	8.0 K0	23 35 42.401	276.79	2.60	65 9 25.51	1993.0	1.7	2	58.74
21171	7 5066	8.4 F5	23 36 19.506	305.38	.23	8 2 10.48	1993.6	1.9	2	58.68
21174	53 3207	7.3 K0	23 36 27.396	288.35	1.83	54 9 56.29	1993.7	1.7	2	58.22
21175	16 4959	8.1 K2	23 36 28.478	303.21	.46	16 44 14.06	1993.7	1.8	2	58.35
21177	60 2598	7.3 K5	23 36 38.574	282.78	2.29	61 1 28.79	1993.9	1.7	2	58.30
21188	4 5036	8.0 K5	23 37 44.837	306.30	.15	4 31 44.57	1994.8	1.8	2	57.74
21190	17 4957	8.5 G5	23 37 50.962	303.05	.51	18 21 58.18	1994.9	1.7	2	58.69
21195	2 4701	8.8 A0	23 38 17.493	306.59	.12	3 20 59.71	1995.3	1.7	4	58.76
21200	- 3 5688	8.8 K0	23 38 39.454	308.01	-.05	- 3 8 11.14	1995.6	1.7	2	58.21
21217	11 5044	8.4 A3	23 39 27.816	304.68	.36	12 27 59.46	1996.2	1.6	2	57.70
21223	37 4881	8.9 A5	23 39 51.226	298.27	1.12	37 40 15.24	1996.5	1.5	3	57.76
21240	84 536	7.7 K0	23 40 50.816	174.82	2.49	85 11 28.91	1997.3	.6	2	57.22
21243	59 2762	7.9 M0	23 41 9.183	288.56	2.28	59 40 27.94	1997.5	1.3	2	57.70
21244	21 4977	7.9 M0	23 41 10.540	302.97	.62	21 39 46.12	1997.5	1.4	2	58.79
21247	41 4853	7.4 K0	23 41 36.340	297.62	1.31	42 11 9.09	1997.8	1.3	2	58.30
21248	61 2510	8.4 K0	23 41 38.173	286.82	2.52	62 27 7.53	1997.8	1.2	2	57.68
21254	28 4630	8.4 K0	23 42 2.383	301.41	.85	29 29 36.16	1998.1	1.3	3	57.08

Position 1950 + T = Position 1950 + T (1st term) + T² (2nd term) + T' (P. M.).

T in centuries from 1900.0, T' in centuries from epoch.

No.	B.D. No.	M + Sp.	R.A. 1950	Precession		Decl. 1950	Precession		No. Obs.	Epoch 1900+
				1st Term	2nd Term		1st Term	2nd Term		
21255	15 4880	8.4 K0	23 42 5.674	304.30	.47	16 12 16.05	1998.1	1.3	2	58.69
21256	6 5197	7.1 K0	23 42 15.722	306.08	.22	6 54 51.34	1998.3	1.3	2	57.28
21267	31 4965	8.7 G0	23 42 51.581	301.11	.94	31 54 50.00	1998.7	1.2	2	57.28
21276	18 5209	8.5 A5	23 43 27.551	303.96	.56	19 16 15.52	1999.0	1.2	2	57.75
21278	- 0 4566	7.3 G5	23 44 0.970	307.28	.06	0 15 9.47	1999.4	1.2	2	57.68
21280	36 5117	7.6 K5	23 44 13.276	300.34	1.12	37 13 50.31	1999.5	1.1	2	58.28
21282	16 4983	7.7 K5	23 44 19.887	304.49	.50	17 15 5.44	1999.6	1.1	3	58.71
21283	27 4619	7.0 M0	23 44 20.902	302.45	.82	28 8 31.74	1999.6	1.1	2	57.76
21291	- 4 5955	8.6 F2	23 44 49.487	307.97	-.06	- 4 10 52.11	1999.9	1.1	2	58.15
21294	45 4325	7.8 K2	23 45 5.773	298.42	1.50	45 44 25.04	2000.0	1.0	2	59.80
21296	- 1 4489	7.1 K0	23 45 8.231	307.48	.02	- 1 2 23.21	2000.0	1.0	2	58.35
21298	3 4895	8.2 K0	23 45 11.373	306.73	.16	3 57 7.99	2000.1	1.0	2	59.34
21301	7 5086	8.1 K2	23 45 45.272	306.17	.26	7 54 38.41	2000.4	1.0	2	57.75
21303	14 5058	8.0 F8	23 45 52.486	305.15	.44	14 47 36.93	2000.4	.9	2	57.29
21306	29 5002	7.9 M2	23 45 58.824	302.56	.90	30 14 58.97	2000.5	.9	2	57.76
21307	41 4869	8.0 K2	23 46 3.165	300.03	1.32	41 54 56.73	2000.6	.9	2	59.34
21315	20 5375	8.2 K0	23 46 30.669	304.33	.61	20 50 29.49	2000.8	.9	4	59.23
21317	9 5283	8.7 A0	23 46 35.722	305.96	.31	9 56 8.03	2000.8	.9	4	59.79
21319	67 1564	8.4 M0	23 46 44.281	287.82	3.34	68 23 26.10	2000.9	.8	2	58.22
21328	12 5027	8.7 K0	23 47 37.885	305.66	.40	13 2 15.73	2001.3	.8	2	58.35
21330	66 1648	8.4 K0	23 47 55.866	290.53	3.24	67 17 29.21	2001.5	.7	2	57.22
21331	62 2310	7.0 K2	23 47 57.137	293.27	2.77	63 27 56.60	2001.5	.7	2	58.30
21335	40 5161	7.7 K2	23 48 26.823	301.50	1.30	40 53 8.36	2001.7	.7	2	57.24
21340	22 4914	9.1 M0	23 48 49.755	304.56	.68	23 1 7.79	2001.9	.7	2	57.76
21341	58 2660	8.0 G0	23 48 50.429	296.57	2.36	58 50 24.67	2001.9	.6	2	58.22
21343	- 4 5965	8.2 K5	23 48 54.905	307.74	-.03	- 3 40 55.37	2001.9	.7	2	58.15
21344	26 4707	8.2 K0	23 48 55.470	304.03	.81	27 3 28.71	2001.9	.6	2	58.85
21355	19 5164	8.7 A5	23 49 47.114	305.21	.59	19 34 36.39	2002.3	.6	2	58.21
21357	28 4655	8.5 A0	23 50 1.084	304.15	.86	28 40 27.14	2002.4	.5	4	59.09
21376	- 0 4581	7.8 M0	23 51 18.358	307.30	.08	0 19 5.20	2002.8	.4	2	57.68
21380	11 5072	7.8 K5	23 51 22.761	306.28	.38	11 43 21.79	2002.9	.4	3	58.08
21389	54 3066	8.2 K0	23 52 3.529	300.75	2.10	54 51 7.41	2003.1	.3	2	57.76
21390	- 2 6059	7.5 K5	23 52 4.897	307.51	.01	- 2 13 27.61	2003.1	.3	2	58.24
21391	17 5002	7.3 K0	23 52 14.355	305.82	.56	18 28 6.68	2003.1	.3	2	58.24
21400	37 4903	8.4 A0	23 52 31.403	303.95	1.20	37 47 30.59	2003.2	.3	2	58.75
21420	45 4367	8.0 K2	23 53 52.818	303.67	1.57	45 43 33.58	2003.5	.2	2	58.22
21422	- 1 4504	8.8 K0	23 53 53.917	307.40	.04	- 1 12 38.30	2003.5	.2	2	57.24
21423	1 4804	8.8 G5	23 53 56.879	307.23	.12	1 38 26.51	2003.6	.2	3	58.74
21434	17 5013	7.7 K0	23 54 58.287	306.38	.56	17 58 17.69	2003.8	.1	2	57.79
21435	19 5176	8.0 G5	23 55 3.159	306.27	.62	20 3 7.36	2003.8	.1	2	57.76
21439	31 5007	7.9 F0	23 55 29.757	305.70	.99	31 45 6.35	2003.9	.0	2	58.23
21445	38 5103	8.0 K2	23 55 49.874	305.38	1.26	38 41 6.93	2003.9	.0	2	57.23
21450	30 5066	8.1 K2	23 56 14.305	306.03	.96	30 32 33.10	2004.0	-.1	2	58.15
21454	15 4916	8.6 K0	23 56 18.927	306.73	.50	15 33 31.45	2004.0	-.1	2	58.25
21457	3 4912	8.0 K5	23 56 22.484	307.18	.19	3 59 42.85	2004.0	-.1	2	58.87
21462	40 5202	8.2 K2	23 56 46.003	305.70	1.36	40 51 2.74	2004.1	-.1	2	58.74
21467	62 2343	8.0 K2	23 57 11.327	304.15	2.92	62 42 48.51	2004.1	-.2	2	58.27
21469	10 5018	7.2 K2	23 57 17.599	307.01	.39	11 23 43.23	2004.1	-.2	2	58.86
21472	35 5149	8.8 G5	23 57 34.939	306.29	1.17	36 18 26.80	2004.1	-.2	3	58.08
21475	1 4814	7.8 K2	23 57 49.780	307.27	.15	2 23 49.24	2004.2	-.2	2	57.24

Position 1950 + T = Position 1950 + T (1st term) + T² (2nd term) + T' (P. M.).

T in centuries from 1900.0, T' in centuries from epoch.

No.	B.D. No.	M + Sp.	R.A. 1950	Precession		Decl. 1950	Precession		No. Obs.	Epoch 1900+
				1st Term	2nd Term		1st Term	2nd Term		
21480	- 0 4603	8.2 K0	23 58 5.174	307.33	.09	- 0 3 19.82	2004.2	-.2	2	57.22
21489	71 1246	7.5 K0	23 59 2.253	305.61	4.62	71 57 30.02	2004.2	-.3	2	57.22
21495	20 5419	8.3 K5	23 59 18.042	307.17	.66	20 44 52.67	2004.2	-.4	2	58.22

Position 1950 + T = Position 1950 + T (1st term) + T² (2nd term) + T' (P. M.).

T in centuries from 1900.0, T' in centuries from epoch.

OBSERVED - AGK 2							OBSERVED - AGK 2								
Zone	Star	B. D. No.		$\Delta\alpha$	$\Delta\delta$	Epoch	No.	Zone	Star	B. D. No.		$\Delta\alpha$	$\Delta\delta$	Epoch	No.
15	9	39	5213	-.032	.71	57.67	2	15	220	33	24	.019	-.17	58.22	2
15	10	31	5024	.057	.36	57.69	2	13	224	18	27	-.019	.79	58.28	2
17	14	58	2691	.006	.13	57.27	2	14	227	20	22	-.008	-.54	59.35	2
12	21	12	5059	.046	.03	57.25	2	15	229	35	46	-.011	-.24	58.31	2
14	24	21	5019	.038	-.78	58.22	2	17	232	51	40	-.068	.39	57.69	2
17	26	64	1893	-.034	.25	58.23	2	11	239	0	42	-.031	.09	58.22	2
11	32	0	5084	-.024	.08	58.85	2	12	241	8	31	.016	.11	57.75	2
17	35	50	4233	-.111	-.04	57.21	2	17	246	49	49	-.020	-.97	59.35	2
17	39	67	1599	-.048	-.31	58.76	2	17	248	54	37	.019	.38	59.77	4
11	45	-4	6019	-.067	-.21	58.86	2	15	250	38	31	-.021	.39	57.82	3
17	47	52	3598	.015	-.25	57.77	2	11	259	2	37	.019	-.64	58.43	2
8	48	87	220	-.847	1.11	58.24	2	11	261	3	34	.016	.70	59.53	4
14	51	23	4853	.054	.88	57.69	2	12	266	10	31	-.035	.15	58.86	2
13	52	15	4937	.050	.67	57.28	2	11	271	-1	31	.038	.18	59.91	2
12	54	8	5172	.094	.34	58.36	2	18	276	77	6	-.143	.78	58.15	2
11	55	0	4619	.062	.25	58.38	3	12	288	6	30	.020	-1.20	57.43	3
11	57	-2	6099	-.025	.04	59.32	2	15	291	32	53	.001	.01	57.68	2
6	58	42	4834	-.008	-.31	59.99	4	12	303	11	51	-.005	.13	57.27	2
17	59	69	1383	-.044	.64	58.75	2	15	307	36	47	.064	-.52	57.70	2
15	60	32	4771	.084	-.11	57.75	2	11	312	2	44	-.029	.14	57.28	2
14	64	22	4955	.017	-.61	59.34	2	13	319	15	56	.040	.34	57.07	3
16	69	45	4418	-.016	-.13	59.75	4	13	321	19	57	-.041	.31	58.30	4
14	71	19	5210	.038	-.16	58.78	2	15	327	34	51	.032	.42	57.76	2
13	74	16	1	.026	.71	58.43	3	12	328	8	45	.022	.36	57.75	2
16	80	41	2	.009	.28	59.75	3	17	337	54	59	-.041	-.47	57.75	2
12	86	13	3	.061	-.38	57.23	2	17	343	50	72	-.011	.42	58.21	2
11	90	0	6	-.006	.28	58.30	2	11	344	0	54	-.023	.22	58.27	2
17	105	59	4	-.033	-.31	57.74	2	15	345	31	52	-.003	-.80	58.88	2
12	111	11	10	.037	-1.17	57.79	2	16	350	46	78	-.050	.45	58.11	3
15	117	31	8	-.063	-.80	57.29	2	12	352	9	44	-.012	-.59	58.24	2
12	122	9	12	.037	.38	57.69	2	15	357	37	68	.020	.01	57.75	2
11	130	-1	9	.009	.70	58.75	2	15	359	30	60	.052	.52	57.29	2
14	136	21	10	.071	-.41	58.34	2	11	360	2	54	.028	.19	57.79	2
17	142	56	19	-.026	.10	58.30	2	12	363	13	52	.018	-.55	57.67	2
15	146	28	19	.011	-2.06	57.75	2	14	364	21	46	.052	-.11	58.89	2
15	149	36	13	.004	.78	57.83	2	11	367	3	48	-.010	.49	58.43	2
14	153	20	12	-.007	-.03	58.15	2	16	370	41	67	.093	-.07	58.24	2
16	157	42	30	.090	.78	57.79	2	12	373	6	54	.077	.03	57.74	2
11	166	-4	12	.090	.34	58.22	2	15	374	32	69	.104	.66	58.23	2
18	170	75	5	.048	.36	58.21	2	16	376	47	113	.026	-.32	58.88	2
11	175	-3	18	.059	-1.06	58.34	2	12	379	10	54	.073	.39	58.27	2
15	182	32	26	-.027	.71	57.22	2	16	392	44	101	.179	-1.13	58.29	2
15	195	37		-.044	.67	58.22	2	13	403	17	61	.004	.47	57.20	2
18	199	80	3	.049	-.19	58.74	2	16	408	49	108	.021	.85	58.00	4
13	200	15	30	.072	.73	57.69	2	13	418	18	67	.056	.68	57.40	3
16	204	45	48	-.017	.53	57.24	2	15	436	36	82	.033	.31	57.67	2
6	207	47	49	.130	.80	58.25	2	11	437	-4	59	-.067	.59	57.79	2
15	208	30	31	-.028	-.25	57.75	2	11	447	-3	64	.010	.31	57.67	2
12	209	9	23	.011	.14	59.76	3	11	453	2	67	.010	.06	57.28	2
16	217	43	45	.058	.08	57.83	3	17	458	68	34	.006	1.11	58.15	2

OBSERVED - AGK 2							OBSERVED - AGK 2								
Zone	Star	B.D. No.		$\Delta\alpha$	$\Delta\delta$	Epoch	No.	Zone	Star	B.D. No.		$\Delta\alpha$	$\Delta\delta$	Epoch	No.
11	460	0	77	.006	.42	57.75	2	13	718	15	126	.022	.56	57.10	3
14	464	22	86	-.017	.74	58.24	2	18	721	84	14	-.689	.70	58.40	3
17	469	61	125	.010	-.03	57.30	2	15	729	29	145	.030	.18	57.30	2
17	471	67	56	-.069	.04	57.47	3	15	733	36	145	-.048	-.43	58.81	2
18	475	71	25	-.153	-.10	58.74	2	11	747	1	158	-.013	.13	57.52	4
15	478	28	96	-.205	-2.10	57.67	2	12	751	10	105	.029	-.30	57.79	2
12	482	6	75	.031	-.01	58.78	4	16	761	41	163	.034	-.10	57.23	2
15	483	37	98	.017	.12	58.28	2	12	763	12	108	.034	.04	57.40	2
17	484	56	91	-.025	-.30	58.30	2	11	765	0	142	.005	-.12	58.24	2
11	503	-4	64	.005	.30	57.24	2	15	767	35	167	-.017	-.02	58.28	2
16	509	44	128	-.098	.88	57.22	2	11	775	3	127	-.013	-.14	57.48	3
14	516	21	77	-.027	.58	57.74	2	18	776	69	54	-.051	-.01	58.82	2
11	517	1	108	.033	.30	57.76	2	17	778	58	136	-.065	.43	57.79	2
12	518	5	81	-.014	-.44	57.68	2	17	784	59	145	-.067	.38	57.28	2
11	519	-1	75	.012	.53	57.69	2	12	790	13	130	.053	-.41	58.24	2
15	528	33	89	-.072	-.20	57.24	2	13	791	16	90	-.023	-.09	58.84	4
12	531	7	86	.027	1.37	57.76	2	12	792	9	109	-.018	.26	57.75	2
15	537	31	89	.047	.05	57.69	2	12	802	11	120	.012	.46	57.68	2
13	543	15	100	-.004	.63	58.15	2	17	803	52	213	-.045	.44	58.03	4
11	549	3	86	.031	-.11	57.69	2	12	808	5	129	.008	-.12	58.85	2
14	550	20	90	.084	.50	58.07	3	15	817	26	161	.124	.69	57.79	2
13	556	18	93	-.026	.29	58.20	2	14	820	21	126	.016	-.70	58.27	2
12	567	11	86	.000	-.98	57.76	2	13	821	15	144	.054	.56	58.81	2
17	568	57	130	.010	.21	57.24	2	18	823	73	47	-.090	.30	58.21	2
16	570	43	135	-.025	-.59	58.30	2	16	833	40	199	-.047	-.15	57.68	2
14	575	22	106	-.089	1.04	57.69	2	11	840	1	185	-.012	.62	57.29	2
15	589	34	108	-.036	-.09	57.68	2	11	851	-1	131	-.026	-.41	60.35	2
14	597	24	104	.008	.52	57.28	2	12	858	7	146	-.062	-.41	58.32	2
16	601	48	219	-.061	1.22	58.27	2	12	860	10	115	.019	-.03	57.22	2
13	605	17	93	-.003	-.11	59.06	4	15	872	29	168	.016	.38	58.21	2
16	612	41	123	-.116	.08	57.31	2	15	880	32	177	.002	.24	57.78	2
12	619	14	105	-.072	.34	57.24	2	12	883	12	126	.048	-1.32	57.67	2
12	623	7	104	.003	.02	57.22	2	17	892	52	248	-.047	-.20	59.48	4
15	632	30	114	-.079	-.37	58.37	3	15	894	36	187	.031	-.69	59.80	4
15	635	38	108	.036	.86	57.76	2	15	896	37	199	-.005	1.25	58.29	2
16	637	45	199	-.049	.82	57.29	2	11	902	0	163	.024	-.33	58.31	2
17	644	50	141	-.027	-.83	58.27	2	12	905	8	166	.014	.87	57.41	3
12	646	10	89	.006	.18	57.79	2	12	918	5	144	-.004	-.35	57.21	2
11	649	-3	99	-.016	.47	58.39	2	11	946	4	182	.083	.49	58.22	2
14	654	20	106	-.049	-.01	58.87	2	15	947	33	169	.019	-.03	57.46	3
17	656	60	107	-.032	.18	58.24	2	17	956	59	188	-.170	.69	58.31	2
13	659	18	106	-.047	.41	59.36	2	5	964	25	170	-.049	.78	57.73	2
11	660	-4	95	.011	.46	59.37	2	12	967	9	132	.027	-.41	58.31	2
17	669	57	151	-.009	.61	58.24	2	16	978	39	268	-.007	.78	57.78	2
12	676	12	95	.011	.42	59.27	2	15	989	30	177	-.101	1.23	58.22	2
12	685	5	109	-.017	.37	57.79	3	16	997	48	355	.021	-.80	58.23	2
13	691	14	121	-.024	.25	57.74	2	12	999	5	150	-.045	-.07	59.00	2
12	694	9	97	.015	.28	58.85	4	12	1007	13	175	-.021	-.22	58.43	2
16	711	48	257	.013	.50	57.22	2	14	1008	20	171	.027	-.91	58.87	2
18	713	70	57	.017	-.56	57.23	2	11	1015	-1	156	-.033	.65	58.90	2

OBSERVED - AGK 2							OBSERVED - AGK 2								
Zone	Star	B. D. No.		$\Delta\alpha$	$\Delta\delta$	Epoch	No.	Zone	Star	B. D. No.		$\Delta\alpha$	$\Delta\delta$	Epoch	No.
17	1020	52	279	-.032	-.23	58.29	2	12	1317	12	189	.012	.69	57.77	3
17	1022	56	221	-.058	.12	59.00	2	17	1321	54	315	.038	-.04	58.31	2
17	1025	62	224	-.035	.28	58.78	2	11	1325	0	247	.031	.42	58.84	4
14	1039	24	190	-.041	-.29	59.31	2	16	1327	41	300	-.026	.49	58.88	2
12	1047	8	187	.018	-1.18	58.22	2	15	1335	29	260	-.002	.00	57.37	2
18	1049	70	87	-.027	-.22	57.75	2	11	1341	-2	242	-.015	-.31	58.48	3
11	1056	-2	184	.047	.18	58.82	2	13	1342	16	172	.055	-.04	59.07	4
13	1059	18	163	.020	.07	57.75	2	13	1344	18	207	-.025	-.25	57.88	2
17	1065	59	220	.081	-.72	58.94	2	11	1349	3	216	-.005	.25	58.80	2
12	1075	6	185	-.029	1.51	57.79	2	12	1361	13	238	-.023	.36	57.73	4
16	1077	49	335	.010	.09	57.67	2	12	1363	7	234	.099	.01	57.35	2
18	1079	80	34	-.175	.14	58.22	2	17	1367	51	338	.074	.58	58.30	2
12	1083	12	155	-.007	-.11	58.81	2	12	1375	9	189	.038	-.47	57.22	2
16	1103	43	262	-.031	.63	58.83	2	16	1380	46	397	-.040	.02	57.28	2
18	1111	76	39	-.490	0.00	57.41	2	16	1384	47	462	.153	-.51	57.90	2
11	1114	0	215	.007	.79	57.84	2	14	1386	23	211	-.061	.40	58.12	3
15	1122	39	301	-.025	-.36	58.89	2	15	1390	32	280	.014	.57	57.79	2
14	1125	21	173	.034	-.33	58.22	2	12	1412	9	194	.014	-.28	57.53	4
12	1130	6	195	-.066	1.49	57.24	2	15	1416	28	273	-.019	-.45	58.33	2
15	1131	33	205	.025	.34	58.76	2	11	1440	2	244	.030	.98	57.54	4
12	1139	11	167	.053	.27	58.23	2	11	1453	-2	270	.046	-.36	58.43	2
17	1144	64	150	-.049	.05	57.75	2	14	1458	22	257	-.022	-1.26	58.86	2
15	1145	36	224	.057	.11	57.42	2	13	1464	17	247	.001	-.21	57.75	2
13	1156	14	204	.027	.26	57.21	2	16	1466	44	352	-.088	-.11	57.83	2
17	1158	68	94	.046	-.89	57.28	2	11	1478	3	230	-.001	-.05	59.34	2
11	1165	-4	189	-.095	-.17	57.76	2	13	1483	15	251	.031	-.16	57.78	2
12	1172	13	204	.000	.78	57.15	3	15	1487	24	250	.067	.11	57.79	2
15	1176	25	228	.065	-.52	58.58	4	12	1493	10	225	.043	-.19	58.76	2
15	1182	32	245	-.024	-.06	58.76	2	12	1503	13	266	.010	-.08	57.44	3
16	1185	47	398	-.053	-.47	58.78	2	12	1504	5	232	.034	-.20	58.30	2
14	1187	22	221	.080	.53	58.31	2	11	1513	0	264	.072	-.81	59.99	5
12	1189	7	204	.025	-2.09	58.34	2	11	1525	1	313	.076	-.08	57.76	2
17	1191	58	230	.025	-.02	58.32	2	15	1527	26	290	-.108	-1.08	58.35	2
17	1193	56	264	-.006	-.21	58.24	2	16	1535	40	362	.254	-1.61	57.78	2
11	1210	-1	182	-.010	.98	57.78	2	11	1537	-4	269	-.018	-.78	58.84	4
15	1214	34	243	.009	.88	58.31	2	11	1560	0	289	.059	-.60	58.30	2
11	1230	-2	213	-.036	.12	58.76	2	12	1561	12	231	.066	.16	58.34	2
13	1232	17	206	.006	-.38	58.54	4	11	1563	0	274	-.019	-.27	58.30	2
15	1241	24	212	.036	-.88	57.28	2	16	1577	41	353	-.077	-.68	57.75	2
17	1244	51	308	.027	.61	58.79	2	15	1578	34	311	.021	-.29	58.77	2
11	1245	1	262	-.023	-.05	58.89	2	17	1583	61	334	-.039	.24	57.16	3
16	1267	48	448	-.005	.44	58.29	2	15	1586	32	323	-.094	.68	57.29	2
12	1269	8	238	.034	-1.35	57.28	2	15	1589	26	303	-.039	-1.40	57.78	2
17	1273	65	173	.147	.26	58.22	2	16	1606	42	388	-.036	-1.35	57.79	2
17	1275	59	261	.020	-.42	57.89	3	13	1619	17	273	-.001	.28	57.37	2
18	1278	72	75	.012	.61	57.79	2	13	1621	15	273	-.010	.11	57.85	2
11	1289	-1	199	.040	-.32	59.34	2	16	1630	46	467	-.062	-.78	58.79	2
17	1295	57	308	-.089	-.02	58.83	2	11	1638	0	302	.068	.55	58.31	2
12	1296	5	196	.072	-.61	58.78	2	11	1641	3	257	.017	-.12	58.31	2
17	1309	50	299	-.089	.19	57.89	2	12	1655	6	296	-.011	.35	58.55	4

OBSERVED - AGK 2							OBSERVED - AGK 2						
Zone	Star	B.D. No.	$\Delta\alpha$	$\Delta\delta$	Epoch	No.	Zone	Star	B.D. No.	$\Delta\alpha$	$\Delta\delta$	Epoch	No.
4	1657	23 254	-.053	-.28	58.34	2	16	1901	45 557	.044	.03	58.34	2
16	1658	40 400	-.011	-.42	58.79	2	17	1905	65 234	-.101	-.62	57.75	2
17	1662	53 419	.007	.34	57.86	2	15	1908	35 416	-.001	.48	58.43	2
12	1671	13 296	.040	-.53	58.78	2	16	1920	47 583	-.045	-.36	57.81	3
17	1674	69 123	.022	-.23	57.27	2	12	1924	9 280	-.010	-.19	57.81	2
17	1694	51 444	.006	-.54	57.30	2	17	1925	58 399	.059	-.30	57.79	2
15	1696	34 338	-.022	-.11	57.29	2	12	1927	13 351	.077	.11	58.29	2
17	1736	62 332	-.026	-.15	57.29	2	13	1928	19 332	-.008	.43	58.43	2
13	1738	15 286	-.025	.62	57.31	2	11	1929	-2 379	.024	-.47	58.86	2
15	1739	28 335	.060	-1.27	57.33	2	16	1941	46 538	.047	.07	58.92	2
17	1744	55 466	-.007	-.01	57.85	2	15	1942	25 368	-.076	-.88	58.86	2
16	1749	40 415	-.277	-.05	57.27	2	3	1950	18 284	-.001	-.19	57.29	2
18	1752	81 67	.017	.05	57.44	3	17	1951	49 602	-.097	-.07	57.77	2
15	1758	39 450	-.041	1.19	57.29	2	14	1956	20 358	-.041	1.52	58.77	2
12	1759	6 314	-.024	-.06	58.55	4	16	1966	41 430	-.033	.48	58.79	2
16	1768	47 544	.008	.89	57.76	2	18	1968	77 78	.066	.50	57.27	2
12	1769	12 264	.003	.03	58.30	2	12	1971	10 306	-.003	-.55	57.81	2
12	1773	4 340	.050	-.35	59.32	2	16	1973	48 642	.110	-.40	57.22	2
11	1776	-1 276	-.017	-.15	58.44	2	5	1983	29 385	.017	-.42	58.31	2
15	1777	31 354	-.012	-.16	58.30	2	11	1984	1 403	.031	.14	58.89	4
16	1778	44 406	.037	.32	57.37	2	12	1987	9 294	.012	.34	59.30	2
11	1780	0 335	.107	.56	59.12	4	11	1990	-3 345	.032	1.26	58.90	2
16	1784	42 430	.076	.04	57.24	2	13	1991	16 266	-.012	-.42	58.29	2
15	1785	36 394	.049	.06	57.29	2	15	1996	33 399	.061	.07	59.47	2
13	1787	18 261	.018	-.31	58.34	2	16	2001	44 456	-.005	.56	57.89	2
13	1790	14 328	.015	-.34	59.36	2	11	2006	-2 389	.000	.29	58.86	2
12	1792	8 316	.065	-.08	59.92	2	15	2011	36 458	-.042	.64	58.79	2
17	1796	63 277	-.058	.60	58.31	2	12	2015	7 362	-.054	-.34	57.31	2
15	1798	35 396	.046	.37	58.80	2	15	2031	31 403	.019	.57	57.89	2
13	1807	17 306	.059	-.21	58.60	4	17	2036	54 525	-.042	.28	58.31	2
14	1808	22 298	.001	-.46	58.30	2	17	2038	58 450	.006	.39	57.75	2
17	1814	56 416	.036	-.03	57.77	2	15	2045	30 379	.038	.22	57.31	2
17	1827	59 403	-.018	-.04	57.30	2	12	2046	9 306	.014	.24	57.82	2
12	1829	9 266	-.008	.19	58.89	2	14	2049	22 331	.013	-.15	57.30	2
12	1836	4 348	.026	-.15	57.30	2	12	2055	11 326	.049	.44	58.35	2
12	1842	12 282	.024	-.63	57.29	2	11	2057	0 391	.060	-.37	58.46	2
17	1846	69 136	-.007	.17	58.30	2	15	2060	37 538	.072	-.01	59.52	4
11	1848	3 284	.030	-.75	58.36	2	11	2072	0 357	.010	-.28	58.42	2
17	1849	51 500	-.068	.54	58.31	2	18	2073	78 82	.056	.30	57.77	2
11	1851	0 352	.030	.62	57.75	2	12	2079	7 375	.054	-.39	57.24	2
12	1862	5 285	.079	-1.24	58.28	2	15	2083	35 465	-.036	.45	57.29	2
13	1863	15 305	.035	.43	57.44	3	12	2084	10 318	.049	.03	57.84	2
12	1866	10 292	.033	.23	57.86	2	17	2090	55 609	-.010	-.12	58.43	2
11	1870	-1 296	.048	.56	59.33	2	16	2092	46 565	-.030	.08	58.41	2
11	1878	-3 320	-.021	-.01	57.88	2	17	2095	59 483	-.049	.30	57.76	2
17	1885	53 459	-.015	-.06	57.89	2	15	2096	28 409	.003	.89	59.18	4
15	1886	31 370	.057	-.04	59.88	2	18	2100	73 136	-.052	.20	57.84	2
14	1888	21 291	-.008	.17	58.30	2	15	2109	31 418	.023	.31	57.30	2
14	1889	22 309	-.001	-.38	58.79	2	11	2114	-3 375	.007	-.37	59.21	2
12	1900	11 288	.010	-.19	57.82	3	12	2121	6 360	.067	.26	58.65	4

OBSERVED - AGK 2							OBSERVED - AGK 2						
Zone	Star	B.D. No.	$\Delta\alpha$	$\Delta\delta$	Epoch	No.	Zone	Star	B.D. No.	$\Delta\alpha$	$\Delta\delta$	Epoch	No.
13	2129	16 291	-.006	-.59	57.79	2	12	2399	8 416	-.004	-.38	58.77	2
14	2131	22 347	-.063	1.28	57.85	2	15	2403	28 456	.031	-2.42	58.32	2
11	2142	-1 338	.014	.69	58.32	2	12	2409	13 446	-.014	.66	58.27	2
14	2155	23 330	.001	-.33	57.76	2	15	2411	33 503	-.023	-.17	60.77	3
17	2162	52 587	-.033	-.20	58.88	2	13	2413	16 342	.025	.50	57.94	2
15	2165	30 399	-.104	-.51	58.43	2	17	2420	64 346	.038	-.28	58.81	3
16	2168	43 504	-.036	1.07	58.30	2	15	2422	38 551	.147	.01	58.90	2
12	2171	5 343	.066	-.36	58.30	2	16	2428	42 628	-.092	-.68	58.43	2
16	2176	47 640	.008	.06	58.35	2	14	2431	21 374	-.028	.05	57.89	2
13	2185	18 315	.052	.28	57.86	2	13	2442	17 438	-.050	.56	57.90	2
11	2213	-4 412	.024	.20	57.94	2	13	2454	19 424	.027	.77	56.96	2
14	2217	20 416	-.022	.25	58.46	2	15	2465	32 507	-.018	.56	57.75	2
12	2221	6 380	-.003	.24	58.30	2	4	2468	20 467	-.121	.20	59.30	2
11	2222	-1 352	.071	.01	57.94	2	11	2470	-4 476	-.004	.29	57.78	2
12	2224	14 418	-.012	-.35	59.34	2	16	2496	44 591	.060	.18	58.53	2
18	2226	80 80	.303	.52	57.79	2	17	2499	51 640	.077	-.64	58.43	2
15	2228	29 434	.032	-.32	58.35	2	12	2511	6 436	.009	.11	59.31	2
12	2235	5 356	.014	.40	57.29	2	13	2513	15 397	-.038	-.19	57.78	2
11	2254	2 400	.033	.16	58.32	2	18	2517	75 109	-.204	-.76	59.34	2
11	2260	0 387	.007	.26	58.35	2	15	2523	28 473	-.054	-1.08	58.92	2
15	2261	30 414	-.060	.02	57.37	2	12	2534	14 484	.042	.38	58.00	2
17	2266	62 426	-.012	.01	57.84	2	13	2536	18 370	.025	1.29	58.39	2
15	2268	38 510	.053	.30	57.78	2	12	2549	10 388	.098	-.16	57.78	2
15	2270	28 437	.021	-.83	59.31	2	16	2554	46 656	-.002	.16	58.32	2
13	2272	15 354	.004	1.24	58.30	2	15	2557	37 660	.023	.02	57.90	2
18	2273	74 112	-.139	.32	57.84	2	11	2562	-3 459	.054	-.50	58.90	2
12	2275	13 410	.031	.31	58.34	2	4	2567	22 405	.031	-.32	58.34	2
12	2276	9 339	.038	-.14	59.35	2	18	2580	85 50	-.208	.41	59.35	2
15	2278	26 432	.029	.16	58.78	2	18	2585	72 153	.145	-1.05	59.45	2
18	2283	72 141	-.191	.30	58.34	2	12	2586	5 420	-.012	-.41	59.44	2
15	2286	36 524	.020	-.27	60.03	2	13	2608	17 461	.039	.09	57.78	2
13	2289	17 403	-.021	-.43	59.93	2	15	2627	26 496	.076	-.39	57.40	2
12	2298	11 365	.003	-.29	57.28	2	11	2635	0 471	.069	.23	58.35	2
13	2308	19 394	-.024	.11	57.51	3	18	2637	74 128	.010	-.51	58.30	2
12	2325	7 408	-.015	-1.30	57.89	2	14	2638	22 416	-.049	-.17	57.90	2
18	2328	70 198	-.083	.63	57.74	2	12	2642	12 422	.035	.10	59.40	4
15	2333	35 531	.047	-.37	58.30	2	15	2643	35 607	.025	.20	58.43	2
12	2338	12 370	-.022	-.61	58.34	2	16	2650	42 681	-.053	.13	58.84	2
13	2339	17 414	-.047	1.11	58.32	2	16	2668	40 653	-.062	.16	57.94	2
14	2340	20 444	-.043	1.37	58.32	2	5	2669	37 688	-.078	.16	57.87	2
17	2343	67 222	.001	.71	59.31	2	14	2677	19 449	.001	.56	57.83	2
11	2346	-2 469	.026	1.21	58.42	2	12	2682	10 405	.034	-.64	58.89	2
15	2350	24 381	.026	-.31	58.99	2	12	2686	13 494	.003	-.77	58.42	2
16	2351	40 568	.078	-.43	59.36	2	17	2688	50 691	-.050	.29	58.34	2
16	2355	44 560	.041	-.17	57.38	2	16	2692	45 700	-.058	-.25	58.31	2
14	2357	21 366	.076	1.14	57.78	2	11	2694	-4 520	.004	.03	58.43	2
11	2384	1 474	.052	.20	57.28	2	12	2703	8 461	.064	.25	58.46	2
14	2385	23 362	.038	.29	57.79	2	15	2711	25 484	-.105	.73	57.93	2
17	2393	54 602	.014	.20	57.90	2	15	2712	27 477	.200	-1.19	59.35	2
16	2394	44 569	.026	.53	58.31	2	14	2715	22 431	-.041	.26	57.94	2

OBSERVED - AGK 2							OBSERVED - AGK 2								
Zone	Star	B.D. No.		$\Delta\alpha$	$\Delta\delta$	Epoch	No.	Zone	Star	B.D. No.		$\Delta\alpha$	$\Delta\delta$	Epoch	No.
13	2718	17	489	-.025	-.03	58.30	2	17	3011	65	345	.022	-.11	57.42	2
17	2720	58	556	-.037	-.97	58.88	2	17	3012	55	785	-.074	.47	58.88	2
12	2726	11	434	.013	.15	58.46	2	12	3014	6	527	.093	-.64	58.90	2
11	2730	3	431	.045	.95	58.31	2	11	3042	0	546	.102	.26	57.38	2
17	2731	53	616	.073	.45	57.40	2	14	3047	23	456	-.029	-.18	56.95	2
11	2743	4	496	.012	.69	57.85	2	15	3050	32	629	-.012	-.20	58.77	2
11	2752	0	522	.055	.63	56.95	2	15	3052	39	789	-.011	-1.18	58.99	2
12	2754	12	441	.046	.49	58.42	2	13	3054	16	444	.117	-.39	57.84	2
11	2781	-3	502	-.044	.69	57.83	2	13	3069	15	493	.044	-.83	57.84	2
12	2800	6	492	-.022	1.03	57.93	2	16	3073	44	717	-.027	.19	57.40	2
18	2807	73	171	-.024	-.30	57.85	2	17	3075	57	727	-.019	-.26	58.30	2
15	2809	29	534	-.102	.61	57.81	2	12	3082	9	447	.019	.23	58.86	2
12	2813	7	481	.069	.27	57.87	2	12	3091	7	514	.044	.09	57.88	2
15	2823	30	505	.094	.68	57.96	2	12	3094	6	540	-.029	-.54	57.94	2
15	2825	24	451	.004	-.77	58.34	2	13	3108	18	494	.033	.21	58.76	2
17	2840	63	404	.034	.25	59.00	2	15	3111	29	571	.034	-.34	58.88	2
15	2842	32	585	-.047	-.23	57.81	2	15	3117	27	519	-.006	-.90	58.43	2
12	2850	8	480	.023	-.86	58.30	2	12	3131	13	568	-.031	.16	57.39	2
12	2851	12	453	-.032	-.83	58.42	2	17	3136	62	581	.051	.18	58.42	2
11	2859	-2	581	-.005	.40	59.33	2	12	3137	14	575	-.011	-.15	57.27	2
17	2861	59	616	-.053	.45	57.96	2	18	3141	73	188	-.049	.01	57.85	2
11	2862	3	447	.029	.13	59.46	4	12	3142	9	453	.001	-.26	58.83	3
13	2863	15	453	.004	-.64	58.45	2	11	3161	2	563	.004	.19	58.40	2
16	2873	41	641	-.063	-.88	57.94	2	12	3162	10	460	-.004	-.87	58.31	2
11	2880	-1	466	.029	-.40	59.37	2	16	3167	46	774	-.099	.62	57.94	2
17	2883	61	546	-.034	.34	58.34	2	17	3171	52	703	-.031	.57	58.42	2
11	2893	2	510	.072	-.14	58.30	2	18	3172	79	106	.209	-.31	57.99	2
17	2896	53	639	-.007	-.14	57.41	2	7	3173	65	352	.019	.22	58.90	2
18	2902	81	107	-.145	-.24	57.28	2	12	3181	8	537	.052	.44	58.87	2
16	2917	42	738	-.018	-.01	57.37	2	15	3190	30	557	-.051	.12	58.30	2
17	2922	67	256	-.018	-.58	57.86	2	15	3199	36	732	-.027	.04	58.46	2
16	2923	47	802	-.152	-2.42	57.94	2	11	3202	0	622	.059	.50	57.86	2
15	2924	36	676	-.014	-.57	57.97	2	17	3206	60	720	-.007	-.61	57.84	2
16	2932	45	740	.008	-.01	57.97	2	13	3232	15	516	.002	.03	57.39	2
17	2933	57	715	-.007	-.31	59.32	2	15	3234	26	596	-.060	-.76	57.39	2
14	2934	19	507	.067	.24	59.62	4	18	3249	77	131	-.131	.48	57.29	2
11	2937	0	565	.041	.91	58.86	2	15	3252	34	712	-.061	.37	58.76	2
14	2939	24	471	-.044	.04	58.31	2	13	3257	18	521	-.015	-.01	57.83	2
12	2943	5	479	.057	-.56	59.53	3	15	3259	38	788	.002	.18	58.46	2
15	2945	26	542	.003	-.16	58.90	2	14	3275	20	616	-.103	1.69	57.88	2
18	2946	82	82	-.296	.34	58.41	2	12	3280	11	510	.002	-.76	57.39	2
11	2953	-4	570	-.072	-.13	59.35	2	16	3285	44	782	.037	-.06	57.38	2
12	2956	7	500	-.031	-.35	58.99	4	16	3300	48	987	-.006	.44	57.87	2
12	2958	10	432	-.041	-.08	57.85	2	11	3301	-2	707	.063	-.42	58.31	2
16	2980	48	904	.023	-.06	56.95	2	11	3307	1	656	.047	.42	58.88	2
13	2989	16	436	.000	-.09	57.87	2	15	3309	31	644	.000	.69	58.88	2
13	2991	19	523	-.020	.62	57.39	2	12	3310	6	581	-.020	.33	57.86	2
12	3000	14	559	.009	-.34	58.36	2	11	3318	2	603	.027	.19	57.89	2
17	3007	62	566	.097	.37	59.26	3	15	3323	36	749	-.106	.44	58.39	2
11	3009	1	590	.040	.07	57.82	2	12	3326	10	479	-.013	.70	58.99	2

OBSERVED - AGK 2							OBSERVED - AGK 2						
Zone	Star	B. D. No.	$\Delta\alpha$	$\Delta\delta$	Epoch	No.	Zone	Star	B. D. No.	$\Delta\alpha$	$\Delta\delta$	Epoch	No.
16	3327	46 795	.045	.20	59.03	2	18	3618	76 149	.075	1.48	58.28	2
17	3332	49 1024	-.050	-.48	58.88	2	11	3629	0 642	.050	.38	58.42	2
18	3333	84 66	-.090	1.35	58.28	2	14	3631	21 591	-.028	-1.43	58.86	2
11	3335	4 588	-.018	-.41	59.34	2	12	3646	7 597	-.002	.18	58.43	2
12	3339	12 508	.004	-.34	57.90	2	11	3661	3 563	.005	.14	57.97	2
17	3343	66 290	-.003	-.32	57.87	2	15	3668	25 678	.032	.06	57.85	2
17	3346	55 827	-.076	-.07	57.94	2	12	3672	9 543	-.053	-.17	57.99	2
15	3349	26 617	-.314	-.82	58.89	2	17	3691	55 852	.014	-.33	56.94	2
5	3354	30 576	.014	-1.12	58.91	2	12	3705	13 651	-.041	-1.25	57.82	2
12	3368	8 573	-.010	-.18	58.45	2	14	3708	21 603	-.059	-.01	58.34	2
13	3378	15 537	.093	.38	57.94	2	11	3710	1 713	-.024	-.40	58.43	2
17	3387	65 373	-.043	.47	59.14	4	15	3715	36 844	.063	-1.10	58.86	2
16	3399	43 832	-.021	.12	57.42	2	17	3721	69 243	.051	.02	58.32	2
12	3401	11 530	.063	-.39	57.89	2	16	3728	47 953	-.026	-.36	59.02	2
18	3403	75 151	-.009	.90	57.98	2	13	3729	17 694	-.001	.63	59.34	2
16	3405	47 904	-.058	.37	58.90	2	15	3732	33 811	.037	-1.18	58.99	2
11	3409	2 618	.026	.28	59.35	2	12	3737	10 548	-.043	-1.21	58.90	2
11	3417	-3 625	-.028	1.45	59.32	2	15	3742	28 632	-.073	.51	57.95	2
14	3425	22 588	.022	.47	59.02	2	15	3743	39 956	.056	.06	59.34	2
16	3427	45 836	.097	-.89	57.96	2	16	3746	44 881	.049	-1.00	58.44	2
16	3434	49 1057	-.012	-.03	58.94	2	12	3758	14 672	.008	.18	58.34	2
13	3435	14 624	.072	.69	58.40	2	12	3766	7 620	.042	-.10	57.89	2
16	3437	40 855	.088	.15	59.47	2	12	3772	8 656	.042	-.42	57.81	2
17	3440	62 622	.096	1.24	59.40	4	17	3784	61 690	.028	-.24	57.51	2
15	3443	25 642	.030	.45	58.99	2	15	3788	25 690	.031	-.31	57.86	2
13	3445	16 528	.050	.22	58.30	2	18	3796	74 197	.100	-.63	58.30	2
11	3453	4 602	.021	.72	59.33	2	17	3806	52 806	-.014	.31	57.83	2
12	3462	10 502	.011	.57	58.92	2	11	3807	2 673	-.024	-.06	57.99	2
15	3470	33 747	.004	-.32	57.29	2	13	3809	19 692	.040	.54	58.34	2
13	3477	19 625	.041	-.71	57.39	2	14	3812	21 617	-.005	-.15	57.99	2
11	3478	2 628	.064	.52	58.30	2	13	3814	17 702	-.006	.12	58.86	2
17	3495	51 817	.081	-.48	57.96	2	12	3827	5 622	-.041	.37	57.39	2
13	3496	15 557	-.037	-.08	59.10	4	15	3832	30 651	-.101	-.70	58.32	2
12	3508	8 605	.004	-.37	59.16	4	12	3844	12 577	.003	-.13	57.53	2
17	3517	66 301	.079	.61	58.28	2	17	3848	63 494	-.054	-.63	58.00	2
16	3520	45 858	-.005	.13	57.42	2	7	3857	68 319	.046	.03	58.34	2
17	3533	63 470	.040	.41	59.14	4	15	3860	27 656	-.011	.32	57.99	2
12	3541	9 525	-.010	-.39	58.30	2	11	3864	0 734	.011	.32	58.86	2
12	3542	13 627	.004	-.57	57.85	2	11	3866	-4 806	-.018	.22	57.99	2
16	3543	47 927	-.071	.09	57.96	2	15	3881	32 778	-.046	-.30	56.96	2
15	3548	38 832	.031	.49	57.53	2	11	3885	0 690	.021	-.16	57.41	2
12	3565	6 617	.048	.09	57.42	2	11	3889	-2 883	-.075	-.22	59.02	2
13	3576	18 574	.014	-.37	57.84	2	12	3900	7 637	-.002	.60	58.44	2
12	3577	14 643	.030	.56	58.31	2	16	3912	44 942	-.016	.77	56.96	2
12	3578	8 625	.068	.67	58.89	2	15	3920	25 710	.098	-.56	57.85	2
11	3583	2 641	.058	1.27	57.96	2	16	3922	46 882	-.011	.52	58.34	2
11	3605	-3 676	-.016	-.25	57.96	2	15	3925	29 712	.093	-1.72	56.98	2
16	3606	39 921	-.026	-.01	57.85	2	12	3929	5 649	.006	-.05	58.15	4
15	3612	31 700	-.031	-.73	57.88	2	17	3933	51 924	-.008	-.29	58.87	2
14	3613	22 629	-.092	-.24	57.99	2	11	3938	0 754	.018	-.68	57.99	2

OBSERVED - AGK 2							OBSERVED - AGK 2						
Zone	Star	B. D. No.	$\Delta\alpha$	$\Delta\delta$	Epoch	No.	Zone	Star	B. D. No.	$\Delta\alpha$	$\Delta\delta$	Epoch	No.
17	3940	55 882	.035	.34	58.88	2	13	4180	17 774	.023	.41	57.90	2
16	3943	47 993	.012	.27	58.43	2	17	4191	61 727	.021	-.59	58.86	2
11	3944	0 702	-.039	-.03	57.99	2	11	4203	-4 928	.009	.50	58.95	2
14	3963	23 698	.003	-.20	57.95	2	14	4204	21 692	-.027	.41	56.95	2
12	3965	11 616	.058	-.60	57.27	2	11	4205	-3 869	.008	.16	59.33	2
18	3978	75 182	-.174	.30	57.83	2	17	4212	55 922	-.047	.33	58.90	2
15	3991	35 875	-.075	-.15	58.34	2	18	4226	70 320	-.015	-.76	59.91	2
13	3993	15 635	-.007	.65	58.32	2	13	4236	19 777	.015	1.32	58.92	2
11	3994	-4 851	-.075	.89	58.43	2	12	4237	6 752	.022	.20	59.00	2
16	3997	41 884	.069	-1.21	59.01	2	17	4241	59 831	-.040	-.47	58.99	2
12	3999	8 702	.055	.17	59.02	2	18	4244	72 238	-.066	-.56	58.00	2
18	4007	82 118	-.149	.24	57.85	2	11	4246	0 845	.054	-1.26	58.30	2
11	4008	2 726	.066	-.74	58.43	2	12	4253	12 649	.014	.32	58.38	2
17	4022	52 843	.006	.49	57.39	2	17	4262	53 817	.045	.27	57.53	2
17	4023	59 811	.001	.12	57.95	2	11	4266	0 774	.053	-.62	58.43	2
12	4034	12 606	.021	.46	57.97	4	17	4269	56 975	-.034	-.26	58.90	2
15	4040	34 891	-.165	-.48	58.34	2	11	4274	-2 1021	-.037	.35	58.95	2
11	4047	-4 865	-.030	.14	58.39	2	12	4277	7 725	-.009	1.35	58.31	2
11	4049	1 768	.023	-.11	58.43	2	15	4281	28 698	-.082	.42	59.92	2
14	4054	20 776	-.055	-1.75	59.94	4	12	4284	11 655	.004	.05	59.90	2
12	4055	7 667	.058	-.13	59.33	2	11	4288	3 684	.039	.60	58.34	2
18	4065	76 165	-.230	-.23	57.83	2	17	4291	50 1070	-.055	.27	58.98	2
15	4066	37 941	.000	.34	56.97	2	12	4293	13 720	.013	-.13	57.40	2
16	4068	44 991	.066	.50	59.01	2	11	4325	4 768	.051	-.26	56.98	2
11	4072	0 724	.029	-.38	58.42	2	17	4329	60 843	-.020	.22	57.99	2
15	4073	32 815	-.008	-1.32	58.42	2	12	4333	8 789	-.006	-.33	58.87	2
14	4076	21 668	.045	-.64	57.40	2	15	4340	36 958	-.017	.37	57.90	2
15	4090	25 720	.076	.10	59.32	2	13	4341	18 747	-.042	.45	58.39	2
17	4091	58 761	.043	-.50	58.30	2	16	4343	45 999	-.028	.40	58.90	2
12	4093	10 598	-.026	.05	57.86	2	16	4353	43 1124	.030	-.38	57.53	2
16	4096	45 969	.078	.61	56.97	2	16	4361	41 1003	.017	-.23	56.96	2
17	4101	66 336	.039	-.95	59.89	4	18	4367	71 280	-.078	.60	57.99	2
17	4102	56 954	-.046	.21	58.42	2	11	4374	0 802	.026	-.20	57.51	2
16	4105	42 1015	-.014	.35	57.53	2	16	4375	47 1076	-.028	-1.09	58.43	2
12	4112	8 728	-.030	-.81	58.47	2	12	4377	13 737	.020	-.06	58.87	2
17	4114	18 666	-.018	.31	59.01	2	12	4378	7 756	.049	-.13	58.42	2
17	4118	52 866	-.043	.26	57.93	2	15	4384	33 926	.003	-.09	58.48	2
12	4121	6 730	.024	.67	58.29	2	11	4385	-4 978	-.008	.29	58.57	2
12	4123	11 636	-.025	.42	58.44	2	5	4387	37 996	-.054	-.28	58.34	2
17	4126	50 1028	-.066	.62	57.83	2	12	4394	5 773	.034	.67	57.93	2
15	4132	39 1042	.015	.41	57.53	2	15	4403	34 930	.018	-.54	57.41	2
13	4139	17 762	-.019	.90	58.58	2	11	4407	-4 987	.017	-.02	58.31	2
17	4141	64 470	-.008	.52	58.42	2	3	4409	18 765	.002	-.06	57.95	2
18	4142	80 147	-.086	.04	57.99	2	17	4415	57 849	.049	-.64	57.99	2
15	4147	36 924	-.026	-1.10	57.90	2	17	4426	61 746	-.049	-.28	58.34	2
18	4150	87 33	-.845	.76	57.97	2	17	4438	65 449	-.083	-.17	56.99	3
11	4155	-2 982	-.017	-1.02	58.30	2	18	4455	82 132	-.053	-.02	57.99	2
18	4156	78 162	.376	.70	58.89	2	13	4457	15 719	-.007	-.03	58.87	2
5	4162	26 735	-.075	.28	59.95	4	17	4462	53 842	.027	-.13	58.81	3
15	4178	25 725	-.010	-1.17	58.65	2	18	4473	77 179	.094	-.72	59.08	2

OBSERVED - AGK 2							OBSERVED - AGK 2						
Zone	Star	B. D. No.	$\Delta\alpha$	$\Delta\delta$	Epoch	No.	Zone	Star	B. D. No.	$\Delta\alpha$	$\Delta\delta$	Epoch	No.
18	4475	86 65	-.063	-.17	57.95	2	7	4808	55 991	.029	-.82	57.95	2
18	4482	73 269	.031	.27	59.63	4	16	4817	45 1115	-.028	.25	57.99	2
16	4485	47 1089	.026	-.28	59.00	2	12	4822	9 823	-.036	.47	57.52	2
17	4488	59 847	.106	-.66	58.45	2	18	4826	80 168	.177	.43	58.43	2
12	4498	6 819	.038	-.94	57.40	2	16	4827	46 1015	.024	-1.19	58.34	2
18	4507	83 129	.037	.63	57.97	2	14	4831	21 839	.000	-.24	59.02	2
17	4515	55 956	.024	-.54	58.55	2	12	4834	9 830	.021	.31	57.98	2
17	4529	51 1027	-.024	-.06	57.64	2	12	4838	5 916	.013	-.95	58.87	2
17	4530	58 807	.042	.33	57.99	2	17	4840	65 474	.048	.21	59.01	2
15	4531	35 976	.051	.16	58.99	2	14	4842	24 831	-.012	-1.10	58.65	2
12	4533	5 805	.021	-.14	58.87	2	16	4851	48 1274	.022	-.52	57.99	2
11	4534	3 767	.062	.32	59.02	2	11	4852	1 1015	-.003	.62	57.90	2
11	4537	-1 800	.047	-.23	59.30	2	14	4873	20 961	-.054	-.82	57.49	2
15	4541	26 787	.027	-.17	58.45	2	15	4875	35 1133	-.019	.15	57.64	2
11	4546	0 945	.059	.12	59.08	2	14	4877	21 857	.041	-.45	57.53	2
15	4548	32 892	.063	-1.29	59.07	2	11	4881	1 1028	.058	.26	58.30	2
13	4561	15 749	.034	.62	57.95	2	12	4883	13 908	-.012	-.68	58.99	2
13	4577	18 783	.010	-1.09	57.39	2	16	4886	40 1310	-.013	-.95	58.17	2
12	4585	14 840	-.028	.30	57.99	2	14	4889	23 922	.025	-.30	57.98	2
17	4586	65 459	-.005	-.46	57.97	2	17	4895	53 917	-.051	.77	58.39	2
17	4593	52 930	.040	-.02	58.87	2	17	4905	50 1184	-.099	.34	59.00	2
15	4605	39 1198	.059	.62	57.93	2	17	4922	52 967	-.010	.12	58.00	2
14	4626	24 782	-.070	-1.17	57.97	2	17	4933	56 1034	.051	-.30	58.47	2
15	4633	33 973	.019	-.35	57.82	2	3	4942	17 950	-.049	.21	57.51	2
7	4648	61 771	-.014	.25	57.85	2	12	4956	14 948	.012	.08	59.00	2
11	4653	3 812	-.031	1.19	57.99	2	11	4958	2 1003	.002	.20	57.95	2
16	4662	41 1124	-.060	-.65	57.94	2	16	4962	47 1174	.033	-.44	58.60	2
12	4686	8 904	.000	-.01	58.44	4	12	4969	6 962	.000	-.47	58.95	4
12	4702	12 758	.009	-.98	57.40	2	13	4983	18 887	-.004	-.05	58.14	2
16	4705	45 1084	-.017	-.14	57.50	2	17	4993	56 1041	-.086	.30	57.51	2
11	4711	-2 1201	-.028	.15	57.99	2	13	5005	15 866	.021	.84	57.64	2
17	4713	57 873	.112	-1.23	58.44	2	12	5013	7 951	.003	-.33	59.26	4
16	4716	47 1124	.028	-.29	58.87	2	15	5019	39 1367	-.004	.09	57.99	2
15	4729	39 1251	-.037	.38	58.39	2	17	5027	51 1096	-.022	1.10	57.99	2
11	4730	0 1003	.000	.17	59.41	2	14	5035	23 982	-.050	-.15	58.07	2
12	4733	14 873	-.057	-1.09	58.47	2	16	5040	43 1325	-.031	-1.02	58.15	2
13	4742	15 787	.005	-.38	58.32	2	12	5042	11 898	.021	-.16	56.98	2
11	4746	-4 1102	-.026	-.32	57.97	2	18	5044	72 283	-.021	-1.24	57.08	2
11	4749	-1 860	.008	.21	59.23	4	12	5045	14 978	-.005	.61	57.99	2
15	4758	34 1004	.047	-.11	57.98	2	15	5052	34 1135	-.035	.19	57.71	3
17	4759	67 380	.011	-.03	58.43	2	6	5093	46 1041	-.003	.64	56.97	2
11	4772	4 905	.011	-.15	59.88	4	12	5094	8 1044	-.008	.07	58.64	3
18	4775	73 285	.030	-.59	58.99	2	13	5096	18 920	-.005	.21	58.15	2
4	4780	22 884	-.121	-.43	59.02	2	11	5103	0 1059	.006	-.05	57.99	2
11	4783	3 864	-.019	-.40	57.90	2	17	5110	57 910	.062	-.25	59.44	3
17	4798	52 955	-.033	-.29	58.08	2	11	5117	3 1018	.000	.03	57.96	2
12	4800	6 915	.014	.32	57.31	2	15	5125	38 1277	.017	-.37	57.64	2
11	4801	1 992	.058	-.22	58.54	2	11	5131	-2 1358	-.047	-.40	58.60	2
13	4804	18 839	.027	-1.05	59.11	2	18	5145	83 149	.228	-.60	57.97	2
11	4807	-1 879	-.037	.52	58.96	2	17	5157	50 1225	.017	.10	56.97	2

OBSERVED - AGK 2							OBSERVED - AGK 2								
Zone	Star	B.D. No.		$\Delta\alpha$	$\Delta\delta$	Epoch	No.	Zone	Star	B.D. No.		$\Delta\alpha$	$\Delta\delta$	Epoch	No.
17	5172	61	826	.033	-.28	57.96	2	12	5510	8	1210	.008	-.22	57.99	2
11	5175	2	1063	.015	-.46	58.59	2	17	5516	62	819	.069	.07	58.08	2
11	5187	0	1086	-.010	-.25	58.60	2	16	5525	43	1474	-.005	-.95	56.65	2
18	5200	75	237	-.082	-.28	59.10	2	13	5531	15	1097	.022	.11	56.97	2
15	5201	32	1098	.100	-.47	58.88	2	16	5536	45	1259	.003	-.02	57.97	2
11	5208	-4	1251	.018	-.55	58.99	2	17	5544	55	1062	.036	.19	58.95	4
16	5209	46	1054	-.108	-.03	59.13	2	17	5548	59	952	.021	-.15	58.57	2
17	5214	66	410	-.033	.60	58.49	2	15	5549	35	1362	.004	-.10	58.12	2
15	5218	31	1119	-.014	-.46	58.79	3	11	5550	-3	1339	-.051	.96	58.16	2
18	5221	77	217	.058	-.04	59.35	2	15	5552	33	1275	-.012	-.95	57.56	2
18	5225	81	194	.015	-.44	59.00	2	11	5554	-1	1147	-.021	.58	57.16	2
17	5226	56	1073	-.077	-.05	58.67	2	17	5564	50	1285	-.210	-.70	56.62	2
11	5239	-2	1391	.022	-.07	58.99	2	18	5579	87	41	.174	-.20	58.98	2
17	5247	52	1006	.004	-1.02	59.11	2	17	5581	52	1049	.006	.35	57.90	2
16	5255	40	1446	.023	-.94	58.18	2	15	5586	25	1180	.038	-1.29	58.95	2
15	5258	36	1282	-.017	.23	57.64	2	17	5587	64	575	.003	-.29	58.54	2
15	5261	25	1020	-.018	.93	57.60	2	11	5602	-2	1530	-.069	-.21	59.35	2
16	5263	42	1433	.020	-.67	58.09	2	15	5610	26	1156	-.137	.05	58.11	2
12	5264	9	995	-.039	-.22	58.14	2	15	5615	39	1575	-.068	.31	58.09	2
16	5271	45	1194	-.012	.17	58.44	2	12	5619	5	1164	-.021	.06	58.90	2
11	5279	-1	1059	.018	.54	59.14	3	16	5625	48	1369	-.014	-.10	57.96	2
12	5282	5	1043	-.040	-.81	58.99	2	12	5627	13	1187	-.011	-.37	58.61	2
17	5283	64	555	.014	-.13	57.53	2	14	5637	21	1190	.048	-.52	58.12	2
13	5284	17	1051	.007	.62	58.17	2	16	5646	46	1129	-.009	.06	58.17	2
11	5289	0	1211	-.003	-.43	58.06	3	11	5650	-3	1386	.016	-1.18	57.97	2
15	5296	35	1283	-.080	-.89	57.97	2	16	5651	42	1533	.041	-.38	58.16	2
17	5315	68	417	-.089	-.10	57.14	2	18	5657	75	253	.102	1.04	58.90	2
14	5329	24	1045	-.032	-.27	57.90	2	15	5661	25	1223	.056	-.39	57.56	2
12	5335	7	1072	.041	.17	58.12	2	16	5663	45	1288	-.025	-.33	57.60	2
17	5351	62	801	.007	-.49	58.61	2	13	5680	19	1313	.021	.09	58.49	2
12	5353	11	986	-.001	-.26	58.42	2	12	5682	6	1208	.074	-.46	58.45	2
17	5358	66	420	.012	-.28	57.97	2	17	5686	50	1296	-.023	-.75	58.17	2
12	5359	9	1040	.014	-.52	58.45	2	11	5692	-1	1212	.146	.35	58.97	4
11	5361	0	1242	.019	-.79	59.07	3	17	5696	53	1013	-.091	-.31	56.65	2
15	5366	32	1155	.027	-.01	58.92	2	15	5699	34	1331	-.019	-.57	58.14	2
18	5375	82	155	-.273	.03	57.14	2	16	5705	40	1583	-.032	.48	58.17	2
5	5388	37	1389	-.042	.36	56.64	2	16	5713	41	1431	.051	.04	58.44	2
13	5403	17	1101	-.044	-.80	56.63	2	13	5714	18	1203	-.010	.31	58.09	2
12	5431	8	1173	.024	-.03	58.12	2	17	5721	62	840	.050	-1.08	59.00	2
11	5446	0	1270	.074	.83	56.65	2	11	5722	-4	1490	-.005	.59	58.92	2
11	5455	3	1123	.042	-.11	57.64	2	18	5723	78	225	-.087	-.46	59.14	3
15	5459	33	1244	.026	-.46	58.09	2	12	5725	13	1229	-.011	.28	59.63	2
16	5461	41	1356	-.030	-.14	58.17	2	18	5726	77	239	-.037	-.52	58.45	2
13	5463	19	1212	-.002	-.22	58.42	2	17	5733	55	1077	.012	1.17	58.17	2
12	5464	6	1116	.077	-.55	58.49	2	17	5736	58	925	-.009	-1.43	58.61	2
15	5469	35	1341	-.002	-.11	56.98	2	11	5758	0	1418	-.054	.14	57.99	2
18	5482	74	275	.104	-.75	58.44	2	12	5765	6	1246	.022	.40	57.16	2
15	5490	25	1128	-.028	-.65	56.66	2	11	5797	-2	1624	.015	.04	57.08	2
16	5494	49	1459	-.035	-.52	57.16	2	12	5804	7	1306	.047	-.38	57.16	2
15	5498	27	1006	-.025	-.24	57.97	2	17	5808	61	890	.027	.11	58.46	2

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Zone	Star	B. D. No.	$\Delta\alpha$	$\Delta\delta$	Epoch	No.	Zone	Star	B. D. No.	$\Delta\alpha$	$\Delta\delta$	Epoch	No.
16	5810	43 1548	-.043	-.08	59.08	4	11	6186	-1 1447	.032	-.23	57.11	2
15	5819	25 1302	-.004	-.04	58.44	2	12	6187	14 1486	-.003	.15	57.59	2
15	5823	32 1316	-.081	.78	59.02	2	11	6195	-2 1829	-.038	-.05	58.65	2
5	5826	37 1525	-.004	.33	57.99	2	15	6196	36 1528	-.045	-.49	58.90	2
13	5844	16 1183	-.047	.28	57.42	2	12	6198	7 1520	-.010	-.29	59.58	4
15	5847	29 1263	-.021	.40	57.61	2	18	6204	85 98	-.024	.11	58.65	2
11	5856	-1 1271	.036	.08	59.01	4	16	6214	47 1373	.012	-.59	57.62	2
12	5867	7 1343	-.100	-.62	58.44	2	16	6226	41 1557	-.164	.63	57.11	2
17	5879	54 1050	-.012	-.18	58.60	2	17	6229	57 1021	-.006	-.10	59.01	4
14	5887	25 1326	.007	.07	58.09	2	13	6247	17 1461	-.028	-.19	57.60	2
18	5889	72 324	.045	-.90	58.63	2	13	6255	16 1346	-.025	.06	57.18	2
11	5896	0 1489	.019	-.15	56.97	2	11	6268	1 1622	.032	.04	57.10	2
13	5902	17 1306	-.037	.70	57.60	2	15	6288	29 1430	-.035	-.33	58.60	2
17	5906	67 440	.007	-.11	57.49	2	16	6292	50 1381	-.034	.04	57.17	2
17	5909	60 985	-.047	.36	57.99	2	17	6293	61 928	-.016	-.45	58.00	2
14	5929	23 1428	.022	.07	58.09	2	18	6295	73 360	-.092	-.15	57.64	2
15	5938	39 1689	-.040	1.09	57.99	2	6	6312	43 1639	-.054	.06	57.60	2
18	5946	75 262	-.174	-.41	57.61	2	11	6331	-4 1793	.032	-.69	57.62	2
15	5954	36 1471	-.021	-1.40	58.12	2	13	6333	16 1372	-.013	.09	56.61	2
17	5956	68 447	-.110	.13	57.51	2	17	6346	63 686	-.055	.16	56.63	2
15	5971	35 1464	-.121	-.54	57.15	2	17	6350	64 616	-.040	-.21	57.99	2
11	5978	-4 1610	-.060	.06	58.31	4	11	6388	-4 1820	-.037	.09	57.60	2
18	5981	80 217	.090	-.56	56.65	2	17	6400	68 464	-.051	.32	57.18	2
14	5987	20 1531	.022	-.20	57.90	2	11	6403	-3 1750	-.041	.05	58.14	2
14	6037	22 1453	.008	-.76	57.16	2	18	6407	82 194	.081	-.49	58.00	2
14	6046	24 1386	-.127	1.09	57.51	2	15	6420	30 1431	-.002	.28	57.96	2
15	6047	37 1578	-.005	-.49	58.09	2	16	6423	47 1404	-.003	.06	57.08	2
15	6059	29 1342	.009	.29	58.43	2	11	6425	2 1576	.026	-.42	59.13	3
15	6062	36 1501	-.005	-.23	57.10	2	17	6427	54 1111	.041	-.75	58.61	2
17	6075	55 1125	.010	-.41	57.53	2	12	6428	13 1570	.028	.42	58.10	2
12	6080	5 1406	-.005	.62	57.51	2	14	6429	22 1596	.029	-.28	59.63	2
17	6082	67 452	-.031	.38	59.47	2	17	6431	59 1053	.005	.38	57.63	2
16	6083	41 1513	-.049	-.35	58.63	2	16	6436	50 1399	-.018	.27	57.69	2
14	6085	22 1475	-.071	-1.51	59.07	2	16	6437	45 1394	-.010	-.38	57.65	2
17	6090	66 467	.011	1.05	58.94	2	14	6451	24 1549	-.022	-.56	59.10	2
11	6097	-1 1387	-.049	-.05	59.01	4	11	6459	0 1635	-.063	.79	58.09	2
11	6102	-3 1600	-.042	-1.27	58.12	2	16	6460	40 1807	.008	-.63	57.61	2
15	6113	32 1416	.037	-.63	57.61	2	12	6469	10 1453	-.149	.87	57.05	2
18	6115	74 303	.020	.59	58.65	2	16	6481	42 1678	-.148	.04	57.53	2
11	6118	3 1414	.045	-.14	58.63	2	11	6489	4 1627	.042	-.55	57.59	2
15	6120	39 1756	.023	.24	59.01	2	4	6503	23 1648	-.073	-.54	57.17	2
13	6124	17 1409	.059	-.23	58.44	2	18	6504	78 243	.051	-.69	57.61	2
12	6126	12 1310	.014	-.09	58.85	3	11	6507	-1 1613	-.009	-.61	57.16	2
14	6133	20 1589	.007	-.48	58.63	2	14	6510	22 1620	-.003	-.06	57.19	2
16	6147	49 1556	-.064	-.28	58.57	2	12	6517	14 1615	-.016	.91	57.99	2
11	6153	1 1565	.034	-.33	57.59	2	15	6523	37 1694	-.012	-.42	57.59	2
15	6159	38 1637	-.034	.46	57.99	2	16	6537	41 1628	.034	-1.69	56.70	2
12	6174	10 1315	.005	-.29	58.13	2	11	6549	-4 1885	-.018	.55	57.16	2
11	6176	-4 1714	-.004	.60	57.62	2	17	6563	59 1070	-.014	-.19	57.17	2
13	6179	17 1441	-.078	-.26	58.43	2	16	6564	49 1615	-.031	-.12	57.99	2

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Zone	Star	B.D. No.	$\Delta\alpha$	$\Delta\delta$	Epoch	No.	Zone	Star	B.D. No.	$\Delta\alpha$	$\Delta\delta$	Epoch	No.
13	6593	18 1577	.032	.78	56.17	2	17	6933	58 1057	.006	.11	58.54	2
14	6594	23 1681	-.121	-.19	56.72	2	11	6938	-3 2019	-.056	.96	58.60	2
12	6595	15 1544	-.011	.02	57.97	2	11	6941	-2 2251	-.024	.15	57.18	2
15	6619	30 1489	-.034	.05	57.17	2	16	6946	45 1476	-.029	-.65	57.10	2
12	6631	14 1649	-.024	.60	57.18	2	11	6953	-1 1816	.008	-.16	58.17	2
15	6644	28 1377	-.064	-1.59	56.64	2	15	6961	27 1464	-.010	.05	57.71	2
13	6648	16 1466	-.036	.01	57.60	2	15	6964	32 1615	-.006	.06	57.63	2
15	6655	33 1520	-.017	-.68	57.61	2	16	6967	41 1717	-.051	.39	57.72	2
17	6656	56 1208	-.097	-.42	58.18	2	16	6978	44 1670	-.034	-.51	57.19	2
12	6677	13 1663	-.023	.77	57.63	2	16	6980	43 1733	-.022	-.84	59.64	2
11	6679	5 1652	-.015	1.42	57.99	2	15	6982	26 1638	.029	.88	58.09	2
16	6685	44 1627	-.063	-1.08	56.61	2	15	6988	38 1815	-.067	.02	56.69	2
14	6694	24 1659	-.124	-.09	57.17	2	13	6989	16 1551	-.030	.11	58.14	2
11	6700	-4 1950	-.019	.73	57.60	2	16	6992	47 1484	-.057	.86	57.61	2
16	6705	48 1535	.021	.57	57.19	2	11	7008	1 1905	-.023	.62	58.17	2
11	6708	1 1811	.030	-.43	58.18	2	15	7024	31 1668	-.035	.95	56.65	2
12	6735	6 1690	.026	-.37	58.13	2	11	7032	0 1828	-.026	-.34	56.69	2
18	6737	84 152	-.428	.51	56.71	2	13	7034	20 1913	.034	-.70	56.17	2
15	6744	25 1689	-.110	-1.01	57.60	2	17	7049	55 1226	.030	-.48	56.17	2
17	6749	51 1324	-.030	-.70	58.17	2	18	7057	73 387	-.201	-.92	56.20	2
17	6760	62 935	-.025	.41	57.53	2	17	7069	57 1110	-.064	.05	56.70	2
14	6763	24 1683	-.033	-.59	56.18	2	12	7071	14 1769	.006	-.18	56.64	2
17	6764	58 1045	-.063	-.70	57.18	2	15	7077	33 1608	.040	-.47	56.70	2
16	6772	46 1277	-.058	-.14	56.19	2	14	7087	20 1933	-.128	-1.17	57.17	2
14	6784	22 1717	-.005	.44	56.68	2	13	7090	15 1689	-.006	-.19	58.20	2
16	6793	41 1680	-.048	-.71	56.61	2	13	7092	17 1696	.004	.21	57.06	2
17	6805	60 1063	.015	-.42	56.66	2	16	7094	50 1485	-.090	.01	57.07	2
12	6812	14 1699	-.025	.43	56.70	2	12	7097	5 1824	-.011	-.07	56.63	2
11	6815	-1 1765	-.047	1.00	57.90	4	13	7118	18 1778	.023	.92	56.72	2
17	6817	65 579	-.096	-.30	57.94	4	15	7124	27 1501	-.003	-.04	56.71	2
18	6822	79 243	-.078	-.04	57.17	2	15	7127	36 1712	.040	.23	56.16	2
16	6826	49 1645	-.063	-1.35	58.17	2	12	7128	9 1813	-.035	-.21	56.72	2
12	6830	6 1720	.049	.24	57.62	2	14	7133	25 1794	-.035	.41	56.73	2
13	6845	16 1524	-.022	.45	58.37	4	17	7139	64 661	-.021	-.21	56.19	2
12	6858	10 1579	-.004	-.05	57.07	2	15	7141	37 1804	-.081	-.17	56.63	2
12	6863	5 1726	-.037	.36	57.18	2	12	7152	14 1790	-.020	.12	56.70	2
11	6867	-1 1779	.055	.08	57.60	2	12	7155	7 1873	-.004	-.28	56.72	2
15	6870	33 1560	.008	.80	58.17	2	16	7157	46 1335	-.090	-.26	57.60	2
15	6872	31 1634	-.113	-1.17	58.17	2	15	7161	33 1623	-.007	-.67	57.19	2
16	6880	44 1653	-.005	.57	59.14	3	18	7170	75 321	-.083	-.16	57.18	2
5	6887	36 1659	-.210	-1.34	57.64	2	15	7183	35 1722	.026	.41	56.69	2
11	6890	0 2029	.001	.56	58.63	4	18	7185	74 340	.101	.58	57.61	2
11	6891	-4 2031	-.025	.50	57.18	3	13	7189	15 1722	-.023	.03	57.18	2
12	6899	8 1841	-.093	.87	56.69	2	16	7205	40 1978	.006	.72	57.62	4
18	6900	83 191	-.093	.06	57.62	2	18	7211	76 302	.109	.20	57.06	2
12	6903	11 1641	-.035	.13	58.15	2	12	7225	14 1808	-.066	.36	58.14	2
17	6909	51 1342	.036	-1.15	58.92	4	15	7230	27 1524	-.002	-.49	56.70	2
18	6914	76 292	.005	-.71	57.20	2	17	7235	68 517	-.074	.54	58.96	4
11	6924	0 2041	-.019	-.58	58.20	2	12	7241	6 1858	.007	-.25	59.16	4
16	6931	48 1563	.015	-.56	57.61	2	12	7251	10 1710	-.018	.32	57.70	2

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Zone	Star	B.D. No.		$\Delta\alpha$	$\Delta\delta$	Epoch	No.	Zone	Star	B.D. No.		$\Delta\alpha$	$\Delta\delta$	Epoch	No.
17	7257	55	1243	.032	-.73	56.71	2	17	7556	62	996	-.009	-.02	57.10	2
15	7267	34	1735	-.109	-.02	56.70	2	16	7558	47	1572	-.039	-.30	58.16	2
17	7271	62	976	-.026	-.67	57.17	2	15	7562	36	1808	-.011	-1.39	56.71	2
12	7279	12	1762	.016	.04	56.61	2	12	7567	7	1971	.020	-.75	57.65	2
15	7282	31	1726	-.197	-.33	58.17	2	15	7568	31	1806	-.093	.44	57.18	2
13	7284	18	1839	-.040	-.21	59.09	3	17	7575	56	1295	.012	.63	56.68	2
12	7285	5	1869	.043	1.00	58.09	2	15	7587	30	1706	-.049	-.51	57.18	2
12	7287	13	1832	-.045	.26	58.53	3	14	7589	24	1921	-.075	.13	58.21	2
13	7293	19	1925	.005	-.01	56.70	2	11	7600	-3	2341	-.016	-.21	56.72	2
18	7296	81	263	-.255	.43	57.88	3	12	7605	10	1798	.015	.20	56.68	2
17	7297	50	1508	-.047	-.48	57.64	2	17	7614	66	553	.023	-.38	56.72	2
15	7311	40	1995	-.046	-.15	57.17	2	17	7616	61	1052	.071	.74	56.70	2
16	7317	48	1612	.005	.09	58.16	2	5	7617	27	1613	-.111	-1.21	58.14	2
17	7324	69	455	-.168	-.39	57.18	2	3	7636	17	1852	-.066	-.01	58.13	4
17	7354	59	1144	-.036	-.05	57.20	2	18	7644	71	459	-.166	-.35	56.68	2
11	7358	-4	2235	.003	1.34	58.48	4	18	7649	76	326	.012	1.62	57.72	2
13	7361	17	1776	-.032	.42	56.72	2	13	7667	19	2021	-.022	-.01	57.71	2
15	7377	31	1753	-.100	-.21	58.16	2	15	7673	38	1916	-.001	-.03	58.16	2
14	7381	23	1905	-.203	-.33	57.61	2	12	7685	7	1988	-.015	.76	57.71	2
15	7394	25	1872	-.029	-.73	57.08	2	17	7688	63	784	-.082	.06	57.64	2
16	7402	40	2010	-.189	-.47	56.69	2	15	7694	29	1772	-.058	.46	58.18	2
12	7403	11	1784	.000	-.08	57.72	2	16	7697	42	1886	.025	-.85	58.18	2
18	7406	74	350	-.012	-.20	56.71	2	12	7698	13	1936	-.001	-.32	59.73	2
13	7410	17	1797	.003	.27	57.18	2	15	7712	31	1833	-.010	-.69	58.69	4
15	7412	38	1881	-.045	.08	58.20	2	15	7719	27	1627	-.013	-.26	58.54	3
14	7413	22	1886	.009	-.22	57.64	2	11	7726	-2	2613	.113	-.25	58.26	2
11	7420	1	2035	-.018	.33	58.50	3	13	7732	18	1978	-.029	.15	57.71	2
18	7435	70	502	-.074	-.12	56.71	2	17	7733	52	1322	-.089	.10	57.17	2
6	7437	44	1728	.010	-.07	58.15	2	16	7753	49	1750	.042	-.52	56.68	2
11	7441	0	2232	-.024	1.44	57.17	2	18	7754	79	277	.173	.64	57.23	2
5	7442	30	1677	-.048	-.11	57.71	2	15	7757	29	1785	.019	-.48	57.18	2
12	7455	9	1915	.039	1.22	57.71	2	13	7769	19	2049	-.042	-.09	57.62	2
11	7477	-1	2001	-.018	-.42	57.18	2	17	7777	54	1247	-.029	-.57	59.15	4
12	7490	6	1924	.029	-.28	59.47	4	13	7786	17	1896	-.035	.49	58.19	2
17	7493	67	534	-.034	.28	57.73	2	12	7787	12	1881	-.025	-.06	58.72	2
16	7495	45	1561	-.006	-.34	58.72	2	11	7798	2	2034	-.022	-.59	57.62	2
17	7501	57	1131	.002	-.54	57.64	2	16	7799	41	1864	-.011	.25	58.73	2
15	7506	31	1784	-.028	.18	58.65	2	11	7806	-4	2410	-.020	-.12	57.69	2
17	7508	51	1409	.007	.41	58.72	2	15	7815	38	1940	-.084	-.02	57.71	2
11	7512	0	1962	.043	-.34	58.79	3	17	7826	63	789	.140	-.38	57.18	2
13	7513	19	1979	-.003	.12	57.11	2	17	7830	57	1162	-.052	-.67	57.18	2
15	7515	38	1897	.000	-.86	58.65	2	17	7845	61	1070	-.055	-.70	56.68	2
17	7519	59	1161	-.064	-1.20	59.68	4	13	7862	18	2022	-.020	-.01	56.17	2
18	7521	78	284	-.042	.06	57.71	2	13	7871	17	1919	-.001	.22	56.71	2
14	7526	22	1914	-.020	-.91	57.70	2	12	7879	9	2038	-.035	-.34	56.72	2
11	7533	-3	2314	-.023	-.46	57.74	2	11	7882	3	2041	-.012	.29	57.16	2
12	7537	13	1899	-.047	.32	58.22	2	16	7883	44	1783	-.076	-1.58	56.68	2
16	7538	49	1729	-.033	-.02	56.68	2	17	7896	54	1253	-.055	-.53	58.16	2
12	7541	14	1878	-.095	.53	57.18	2	15	7898	38	1953	-.069	-.03	56.70	2
12	7550	11	1824	-.060	.37	57.72	2	12	7910	10	1867	.033	-.71	58.17	2

OBSERVED - AGK 2							OBSERVED - AGK 2						
Zone	Star	B.D. No.	$\Delta\alpha$	$\Delta\delta$	Epoch	No.	Zone	Star	B.D. No.	$\Delta\alpha$	$\Delta\delta$	Epoch	No.
12	7914	5 2050	-.007	.54	57.16	2	17	8130	54 1270	-.092	-.41	57.71	2
18	7921	72 429	-.064	.20	57.25	2	17	8132	59 1212	-.083	-.52	57.62	2
17	7924	54 1254	-.051	-.36	56.70	2	15	8136	37 1938	-.048	-.85	57.18	2
15	7927	36 1870	-.048	-.39	58.18	2	17	8139	63 815	-.025	.71	56.18	2
12	7932	9 2053	-.016	-1.27	59.13	3	18	8146	83 236	.000	.16	57.26	2
4	7935	23 1999	-.008	-.97	57.71	2	15	8157	31 1923	.036	-.96	58.18	2
17	7936	63 798	-.071	-.27	58.62	2	14	8159	22 2039	.027	.33	58.24	2
17	7942	56 1336	-.054	-.78	57.17	2	12	8161	9 2112	-.023	-.92	59.21	3
16	7947	43 1858	.038	.01	57.19	2	17	8164	57 1189	.003	-.56	57.63	2
15	7949	31 1884	-.105	.95	58.19	2	15	8168	27 1708	-.007	-.96	58.65	2
18	7955	89 13	-.897	-1.17	57.73	2	16	8180	44 1817	.035	-.55	57.17	2
12	7957	13 1995	-.097	-.39	59.68	2	16	8181	40 2146	-.031	.02	56.70	2
11	7962	-4 2461	-.055	-.02	57.73	2	12	8193	13 2036	-.030	-1.17	59.20	3
18	7963	70 536	.036	-.31	58.72	2	11	8196	-4 2533	-.017	.12	58.71	2
15	7971	26 1848	.009	-1.17	58.82	3	11	8197	1 2231	.006	-.18	57.64	2
16	7983	46 1446	-.032	-.80	56.69	2	13	8204	17 2004	-.054	-.55	57.73	2
13	7985	18 2059	.015	.12	58.16	2	16	8206	46 1472	-.106	-.43	58.67	2
13	7988	16 1833	-.060	-.26	58.65	2	17	8207	61 1101	-.053	-.54	57.73	2
15	7993	35 1883	-.018	-.54	59.21	3	13	8209	15 1977	-.054	-.05	56.68	2
13	8001	19 2113	-.040	-.11	57.23	2	17	8210	52 1362	-.034	-.54	58.19	2
15	8003	25 2003	.067	-.23	57.20	2	14	8212	24 2040	-.003	.08	58.65	2
16	8014	42 1940	.010	-.31	56.16	2	17	8221	69 506	.028	.12	57.24	2
17	8015	57 1178	-.040	-.10	57.71	2	16	8226	47 1642	-.074	.48	57.73	2
12	8018	10 1897	-.013	.12	57.71	2	17	8229	55 1315	-.154	.14	58.74	2
17	8019	62 1028	.049	-.28	58.61	2	16	8233	41 1922	-.084	-.18	58.17	2
12	8021	8 2136	.024	-.09	57.74	2	12	8234	14 2033	.035	-.33	58.65	2
11	8023	2 2084	-.027	-.58	58.18	2	13	8240	17 2018	-.045	1.03	58.19	2
17	8025	69 490	-.010	-.43	59.73	2	11	8243	4 2126	.005	.31	59.19	2
17	8027	53 1290	-.042	-.12	56.71	2	12	8246	8 2172	-.042	-.46	59.26	2
15	8028	30 1792	-.073	-.70	57.25	2	12	8247	6 2109	-.012	-.04	57.73	2
15	8029	27 1685	-.014	-1.28	57.65	2	15	8254	32 1845	-.073	-.52	57.71	2
13	8030	20 2234	.032	-.93	59.68	4	16	8256	43 1885	-.036	-.90	59.78	5
11	8032	0 2087	-.035	-.32	58.74	2	14	8261	23 2055	-.017	-.75	57.72	2
11	8044	-4 2491	-.076	-.47	58.72	2	15	8264	38 2006	-.094	-.92	56.71	2
17	8046	60 1157	.006	-.03	57.70	2	11	8268	1 2247	.027	.39	57.96	4
17	8049	65 672	-.117	.30	56.73	2	16	8276	45 1688	-.120	-.67	57.77	2
13	8060	18 2082	-.029	-.19	58.17	2	17	8278	59 1225	-.043	.15	56.72	2
14	8062	23 2015	-.034	-.80	57.23	2	15	8282	29 1879	-.011	.71	56.71	2
15	8063	39 2174	-.013	-.27	57.20	2	11	8286	-2 2808	.076	.20	57.70	2
16	8069	41 1889	-.018	.53	57.72	2	12	8299	12 1991	-.028	.41	58.18	2
13	8076	16 1862	-.001	.46	56.18	2	14	8302	24 2054	-.045	-.53	57.62	2
14	8077	21 1946	-.026	.13	58.24	2	12	8307	8 2186	-.016	-.33	57.19	2
17	8078	67 569	.027	-.79	57.74	2	15	8315	30 1834	-.087	-.24	58.92	4
17	8082	56 1351	-.063	-.74	58.61	2	15	8319	28 1718	-.179	.40	56.73	2
16	8083	47 1625	-.008	-1.05	59.11	3	12	8321	12 1997	-.006	.04	57.72	2
18	8084	75 355	.068	.06	57.72	2	14	8322	23 2062	.003	-1.11	58.23	2
16	8089	48 1705	-.413	-1.90	58.55	3	15	8324	37 1956	-.022	.07	57.18	2
11	8098	2 2114	.026	-.68	58.23	2	17	8332	51 1492	-.041	-.77	57.19	2
15	8125	29 1851	.020	-.06	57.17	2	14	8344	20 2293	-.032	-.44	57.17	2
11	8126	-1 2174	.052	-1.25	57.65	2	16	8354	43 1901	-.009	.02	57.91	4

OBSERVED - AGK 2							OBSERVED - AGK 2						
Zone	Star	B. D. No.	$\Delta\alpha$	$\Delta\delta$	Epoch	No.	Zone	Star	B. D. No.	$\Delta\alpha$	$\Delta\delta$	Epoch	No.
18	8355	78 303	-.060	.06	56.69	2	12	8676	11 2067	.005	-.29	57.26	2
15	8363	31 1961	-.071	-1.03	56.24	2	17	8685	59 1249	-.082	.84	57.09	2
17	8368	61 1111	-.007	-.28	56.73	2	14	8695	22 2112	-.027	.92	58.21	2
13	8369	17 2053	.032	.40	56.72	2	12	8704	15 2091	-.010	.77	57.72	2
17	8381	52 1380	.060	-.28	57.18	2	11	8712	-2 2948	.024	-.33	57.70	2
16	8382	42 1994	.046	-.38	56.65	2	11	8716	3 2249	-.036	-.84	58.53	3
17	8397	60 1181	.041	-.04	58.17	2	15	8723	32 1912	.004	.05	57.09	2
12	8398	10 1972	.017	-.14	56.18	2	13	8743	16 2010	-.077	.47	56.71	2
12	8427	12 2024	-.063	-.45	57.10	2	16	8745	48 1796	.000	-.01	56.25	2
17	8431	67 586	-.105	-.58	56.72	2	15	8754	37 2016	-.093	.08	56.61	2
14	8439	22 2082	.154	-1.51	56.72	2	12	8770	12 2082	.034	-.20	56.18	2
16	8445	46 1494	.060	-.85	57.15	2	11	8772	1 2352	-.017	-.20	56.71	2
11	8446	-2 2863	-.009	-1.34	58.17	2	14	8774	22 2124	-.023	.08	57.23	2
17	8448	63 838	-.017	.56	57.71	2	15	8776	39 2275	-.055	-.28	57.63	2
18	8452	81 295	.063	-.37	57.19	2	15	8778	35 2046	-.010	-.67	57.18	2
17	8457	55 1331	-.031	.99	56.72	2	11	8785	2 2243	-.060	.62	57.25	2
18	8461	71 503	-.102	-.34	57.17	2	13	8787	17 2125	.012	-.06	57.20	2
11	8473	-4 2608	.044	-1.54	56.19	2	18	8808	85 150	-.031	-.45	56.71	2
16	8482	44 1861	-.011	-.11	56.71	2	15	8809	33 1907	.040	-.71	56.69	2
12	8489	6 2173	.036	-.77	57.62	2	16	8817	49 1880	-.011	-.12	57.17	2
13	8508	17 2084	-.013	-.15	56.65	2	12	8820	11 2102	-.008	-.28	57.73	2
11	8512	-1 2260	.009	-.48	56.74	2	12	8822	6 2211	-.013	1.28	57.26	2
15	8513	29 1903	-.017	.42	56.72	2	17	8830	55 1349	-.055	.90	56.73	2
16	8522	49 1841	-.020	-.62	56.64	2	16	8838	47 1707	-.086	-.07	56.73	2
15	8528	28 1761	.027	.68	57.15	2	13	8843	18 2274	-.061	.26	57.17	2
12	8531	10 2002	-.048	-.13	57.24	2	14	8844	25 2157	-.048	-.14	57.72	2
17	8532	50 1644	-.052	-.84	56.19	2	11	8848	-4 2728	-.002	.47	56.71	2
17	8539	52 1395	-.026	-.33	57.64	2	17	8850	52 1424	.049	-.84	57.20	2
16	8541	41 1968	-.059	-.86	56.72	2	15	8853	26 2013	-.082	.03	57.17	2
11	8543	0 2522	-.005	.05	57.71	2	18	8859	75 396	.141	-.48	58.71	2
13	8545	18 2207	-.043	.83	57.18	2	16	8861	42 2051	-.086	-.15	57.23	2
14	8555	25 2105	-.015	-.62	59.14	3	11	8864	2 2255	-.037	-.19	57.18	2
17	8559	59 1238	-.070	.16	58.25	2	18	8868	80 302	.003	.46	57.71	2
13	8573	16 1984	-.008	.32	56.70	2	11	8871	1 2370	.016	.33	57.26	2
16	8575	42 2018	.009	-.50	57.65	2	13	8872	16 2039	-.046	.43	58.65	2
12	8580	9 2195	-.032	-.75	59.20	3	14	8882	20 2387	-.068	-.44	57.26	2
16	8581	48 1779	-.123	-.46	58.19	2	15	8888	36 2006	-.028	-1.22	57.70	2
15	8583	37 1995	-.084	-.97	58.74	2	16	8889	41 2021	.045	-.61	57.16	2
14	8589	20 2335	-.044	-1.23	57.26	2	14	8894	23 2156	.012	.00	57.23	2
12	8590	7 2147	-.022	.31	59.17	2	17	8895	65 741	-.131	-.89	57.72	2
17	8591	63 848	.011	-.74	59.22	2	17	8896	58 1219	-.063	-1.73	57.71	2
15	8593	31 2000	-.132	-.11	59.24	2	12	8900	11 2117	.011	-.21	57.73	2
17	8601	61 1131	.005	.40	57.69	2	12	8904	15 2127	.015	1.32	56.63	2
12	8623	8 2243	.072	.02	56.61	2	12	8913	5 2248	-.040	.00	56.71	2
17	8636	65 723	.025	-.10	56.73	2	16	8919	45 1774	.050	-.38	57.20	2
15	8646	34 2010	-.075	.08	57.11	2	11	8924	-1 2319	.023	-.69	57.25	2
11	8648	5 2204	-.061	-.03	56.70	2	16	8929	49 1896	.058	.43	56.68	2
13	8650	17 2108	.028	.78	56.70	2	17	8950	64 762	-.042	-.30	57.18	2
17	8668	69 526	-.091	-.34	57.72	2	16	8953	47 1724	-.020	-.25	56.70	2
16	8674	48 1789	-.082	-.55	57.25	2	11	8954	0 2588	.004	.34	57.17	2

OBSERVED - AGK 2							OBSERVED - AGK 2						
Zone	Star	B. D. No.	$\Delta\alpha$	$\Delta\delta$	Epoch	No.	Zone	Star	B. D. No.	$\Delta\alpha$	$\Delta\delta$	Epoch	No.
14	8959	24 2156	-.129	1.06	56.70	2	17	9184	52 1461	.005	-.75	58.16	2
13	8962	19 2284	-.009	.98	56.70	2	12	9185	7 2259	-.040	-.32	57.71	2
13	8965	17 2156	-.024	-.21	57.75	2	14	9192	23 2190	-.017	.52	57.18	2
15	8966	35 2086	.003	-.56	58.17	2	12	9198	9 2317	.003	-.24	57.26	2
15	8982	30 1940	.006	-.23	57.18	2	11	9199	0 2308	.020	.42	56.71	2
18	8983	76 371	-.164	.50	58.25	2	11	9201	1 2414	-.023	.01	56.73	2
17	8989	57 1240	-.060	-.21	56.84	3	16	9206	45 1811	-.048	.25	57.24	2
15	8999	26 2031	-.159	-.37	56.74	2	12	9208	11 2190	-.006	.32	57.27	2
11	9011	-4 2775	-.023	.43	57.26	2	11	9212	-3 2873	.026	-.44	56.70	2
17	9021	69 551	-.165	.42	57.17	2	13	9217	16 2098	.040	-.07	57.23	2
12	9028	7 2219	.010	.62	56.69	2	12	9218	6 2276	-.017	-.54	56.68	2
11	9036	-1 2338	-.010	.88	56.70	2	15	9235	34 2105	-.073	-.02	57.74	2
7	9038	58 1230	-.085	.20	57.72	2	11	9239	4 2306	-.030	-.49	56.81	2
16	9045	46 1574	-.012	1.88	56.63	2	11	9249	2 2310	-.051	.15	56.71	2
15	9054	34 2073	-.085	-.56	56.68	2	12	9250	8 2336	-.022	-.48	57.74	2
11	9058	4 2283	.036	.90	56.18	2	17	9267	54 1362	-.045	-.98	57.72	2
17	9064	56 1428	-.008	.58	56.80	2	12	9273	14 2230	-.003	.34	58.28	2
15	9066	28 1835	-.042	-.85	57.19	2	15	9274	40 2313	.014	-.58	58.81	2
17	9071	51 1572	-.032	-.55	56.72	2	6	9276	49 1939	-.158	.02	56.70	2
12	9072	5 2280	-.010	-.61	56.61	2	18	9278	70 607	-.129	.10	58.29	2
13	9081	20 2430	-.019	-.51	57.80	2	17	9279	55 1384	-.039	-.56	57.25	2
13	9082	17 2169	-.045	-.06	58.24	2	12	9287	10 2139	.074	-.79	56.28	2
11	9084	-2 3052	.028	.18	57.17	2	14	9288	23 2213	.045	-.31	58.16	2
15	9087	35 2102	.036	.28	56.73	2	13	9289	16 2110	-.097	.44	58.73	2
17	9091	67 634	-.080	-.36	57.74	2	11	9291	0 2641	.086	-.61	58.77	2
15	9092	31 2097	-.029	-.65	57.17	2	14	9293	21 2175	-.026	-.20	57.71	2
17	9099	61 1165	-.043	.30	57.73	2	15	9297	26 2072	-.009	.29	57.26	2
16	9101	42 2086	-.071	-.59	56.73	2	12	9298	12 2193	.005	-.37	57.17	2
12	9111	11 2166	-.059	.13	56.64	2	11	9300	4 2313	.006	-.65	56.69	2
12	9113	14 2202	-.044	-.03	57.18	2	16	9303	46 1619	-.047	-.30	56.69	2
16	9120	43 1990	-.012	.31	56.71	2	17	9305	69 569	-.059	.08	57.74	2
15	9130	27 1852	-.019	.58	57.26	2	18	9313	71 536	.022	-.28	58.19	2
17	9136	56 1434	-.040	.13	57.25	2	17	9315	62 1121	-.040	-.59	58.29	2
18	9139	83 280	.323	-1.56	56.74	2	7	9317	58 1252	.106	.01	57.25	2
16	9141	49 1923	-.137	-.62	56.71	2	16	9327	40 2321	-.070	-.65	58.71	2
15	9142	27 1853	-.174	.20	57.24	2	15	9331	31 2133	-.060	.07	57.26	2
12	9147	10 2116	.014	.14	57.72	2	12	9341	14 2237	.019	.11	56.68	2
11	9148	-3 2860	-.056	-.06	58.19	2	11	9344	3 2357	.010	.51	57.71	2
11	9150	3 2323	-.072	-.12	57.71	2	17	9350	66 665	-.051	-.60	57.26	2
17	9152	62 1110	.034	-.27	58.69	2	11	9351	-4 2861	.048	.09	58.19	2
17	9153	59 1291	.024	-.16	58.45	5	12	9359	10 2147	.004	-.54	58.69	2
17	9156	65 756	-.032	.66	57.34	2	17	9368	59 1309	-.057	-.50	57.73	2
11	9164	-1 2356	-.060	-.02	56.71	2	16	9369	41 2089	-.012	1.14	56.69	2
17	9167	67 637	.059	.43	58.28	2	4	9372	23 2221	-.191	-.24	57.19	2
15	9169	30 1974	.073	-.17	56.73	2	14	9376	25 2249	.054	-.49	57.52	3
12	9170	12 2162	-.021	.36	57.16	2	15	9382	29 2046	-.203	-.45	58.28	2
16	9172	44 1958	-.005	-.09	57.73	2	11	9387	0 2655	.023	-.72	58.29	2
17	9176	54 1354	.001	.43	59.21	4	14	9392	22 2217	-.061	.69	56.71	2
14	9180	20 2447	.067	.06	57.48	4	17	9398	63 901	-.112	1.06	58.26	2
15	9183	25 2212	.012	-1.22	57.28	2	16	9401	43 2019	.041	-.16	57.19	2

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Zone	Star	B.D. No.	$\Delta\alpha$	$\Delta\delta$	Epoch	No.	Zone	Star	B.D. No.	$\Delta\alpha$	$\Delta\delta$	Epoch	No.
11	9402	0 2344	-.044	.30	58.71	2	17	9634	50 1760	-.058	.87	56.81	2
13	9404	19 2345	-.122	.39	58.79	2	17	9638	53 1432	-.010	-.15	58.26	2
15	9412	27 1897	.015	-1.00	57.73	2	16	9642	49 1986	.004	.26	57.70	2
17	9419	60 1265	.022	-.01	57.79	2	18	9645	73 504	-.006	-.46	57.26	2
17	9422	55 1394	-.066	-.08	57.97	4	15	9652	32 2072	-.138	1.11	57.81	2
13	9427	17 2233	-.009	.48	58.28	2	14	9653	24 2265	.015	.05	56.68	2
15	9435	38 2147	-.007	-.21	57.71	2	11	9655	1 2477	.004	.05	57.28	2
17	9436	64 790	-.094	-1.05	58.71	2	12	9657	8 2409	.033	.03	57.71	2
18	9441	78 349	-.047	.36	58.73	2	7	9658	59 1325	-.017	-.24	57.72	2
16	9448	50 1744	-.008	.01	58.80	2	12	9660	10 2199	.035	-1.06	58.71	2
14	9454	22 2230	-.021	-.20	58.81	2	12	9662	6 2347	.045	-1.08	58.34	2
15	9459	31 2148	-.039	-1.01	58.82	2	15	9667	26 2128	.081	-1.67	57.71	2
11	9462	-2 3165	-.078	-.02	58.77	2	15	9672	35 2181	-.022	-.33	58.79	2
13	9463	18 2372	-.004	-.26	58.28	2	16	9677	43 2045	-.021	.37	57.34	2
16	9464	48 1873	.012	-.34	57.24	2	15	9678	34 2158	-.013	-.55	57.77	2
17	9469	54 1379	.044	-.32	58.23	2	13	9690	19 2373	-.219	-.85	56.68	2
11	9470	5 2347	.003	.46	58.71	2	16	9693	45 1866	-.058	-.59	57.15	2
12	9472	15 2218	-.036	.06	59.27	2	12	9695	14 2299	-.078	-.03	57.81	2
18	9476	77 404	-.159	.57	58.25	2	11	9701	-2 3221	.007	.56	57.26	2
15	9477	25 2263	.039	.04	58.29	2	15	9706	27 1938	-.013	-.71	57.16	2
16	9488	44 1998	-.021	.37	58.20	2	13	9709	16 2170	-.015	-.61	58.28	2
5	9493	34 2141	-.095	.23	57.76	2	17	9716	61 1204	.039	-.95	56.72	2
11	9495	4 2351	.000	-.49	57.79	2	12	9731	7 2374	-.047	-.01	57.71	2
17	9507	69 579	.159	.37	58.23	2	5	9734	36 2129	.017	-.66	58.26	2
15	9517	31 2164	-.173	.26	57.70	2	6	9737	43 2052	-.022	-.75	58.71	2
13	9523	19 2355	-.002	-.65	57.28	2	14	9738	24 2281	.014	-.90	57.26	2
8	9527	71 542	.030	-.47	57.80	2	11	9744	1 2492	.009	-.34	56.71	2
13	9530	16 2139	.008	.24	58.71	2	13	9764	15 2257	-.006	-.26	57.49	4
15	9535	37 2102	-.111	.23	57.25	2	17	9767	59 1333	-.022	-.61	56.73	2
7	9538	51 1615	-.043	.18	57.80	2	15	9772	26 2145	.057	-1.25	56.68	2
7	9539	58 1268	-.058	-.24	56.70	2	18	9773	71 552	.060	.55	58.26	2
14	9541	24 2251	.028	-.77	58.18	2	12	9783	13 2322	-.045	-.49	56.81	2
16	9556	49 1977	-.074	.35	59.46	4	15	9785	32 2085	-.069	.20	57.71	2
12	9557	7 2339	-.023	-.74	57.72	2	17	9786	54 1404	-.075	-.69	57.72	2
13	9559	20 2509	-.089	.37	57.16	2	6	9788	44 2028	-.064	.51	57.81	2
16	9563	45 1850	-.051	.77	58.24	2	17	9790	63 930	.006	-.18	58.71	2
15	9574	29 2073	-.045	-.60	57.80	2	14	9791	21 2262	-.189	-.26	58.77	2
15	9577	40 2354	-.041	-.10	56.71	2	12	9794	6 2368	-.030	-.22	56.80	2
11	9587	5 2374	-.042	.20	57.80	2	11	9796	-2 3247	-.029	.82	57.71	2
16	9590	42 2140	.065	-.32	56.71	2	17	9799	69 592	-.083	.50	56.73	2
11	9598	-3 2976	.024	-.69	57.26	2	16	9803	46 1675	-.039	-.02	57.16	2
12	9603	14 2281	-.015	.29	57.72	2	15	9808	34 2183	-.031	.05	57.81	2
11	9606	0 2694	-.043	-.86	57.73	2	16	9814	40 2385	-.059	-1.88	57.72	2
15	9615	37 2112	-.056	-.07	57.80	2	15	9820	35 2196	.007	-.47	56.80	2
11	9617	3 2403	-.002	-.27	58.26	2	5	9827	38 2197	-.029	-1.03	57.74	2
17	9619	56 1472	-.075	.37	57.28	2	7	9836	68 624	.039	-.45	58.71	2
17	9624	62 1142	.119	.23	58.73	2	14	9837	25 2319	-.088	-.97	57.34	2
13	9626	17 2265	.004	.66	58.71	2	11	9841	-2 3259	.016	.13	58.77	2
11	9631	-3 2980	.031	1.02	58.69	2	12	9842	14 2324	-.037	1.87	58.22	2
16	9633	43 2040	-.106	-.09	57.18	2	17	9843	62 1156	-.067	-.01	57.73	2

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Zone	Star	B.D. No.	$\Delta\alpha$	$\Delta\delta$	Epoch	No.	Zone	Star	B.D. No.	$\Delta\alpha$	$\Delta\delta$	Epoch	No.
15	9848	34 2188	-.005	-.77	58.24	2	11	10080	1 2539	-.024	.44	58.34	2
11	9852	-3 3024	.001	.12	58.81	2	11	10081	-1 2499	-.035	.41	58.84	3
13	9854	18 2429	-.031	.15	57.34	2	18	10084	74 456	-1.347	1.46	59.55	3
11	9859	5 2425	-.035	-.08	58.79	2	13	10097	15 2311	-.019	-.01	57.26	2
15	9871	29 2110	-.036	-.02	57.72	2	18	10101	80 350	-.098	-.15	56.18	2
17	9876	67 677	-.002	-.27	56.27	2	17	10105	65 823	.027	.14	57.70	2
12	9879	6 2387	-.037	-.12	58.72	6	16	10110	41 2172	-.104	-.46	57.79	2
16	9884	50 1788	-.040	-.05	57.79	2	13	10127	17 2337	-.034	.58	56.68	2
15	9887	38 2205	-.065	-.08	57.69	2	14	10128	23 2329	-.133	-.24	56.72	2
16	9893	46 1685	-.073	.03	57.70	2	15	10131	25 2362	.074	-.15	56.26	2
16	9912	41 2155	-.057	.41	57.19	2	17	10133	64 840	.032	.43	57.34	2
15	9919	33 2072	.019	-.35	57.28	2	18	10142	76 423	-.044	-.85	56.80	2
12	9924	8 2452	-.087	-.71	56.78	2	12	10145	10 2274	-.027	-.44	57.73	2
15	9925	39 2410	.006	-.49	56.77	2	18	10151	71 568	-.210	.18	57.31	2
12	9928	10 2240	-.005	-.21	57.18	2	13	10157	19 2438	.047	1.00	56.16	2
13	9930	17 2309	.005	-.92	57.79	2	15	10164	30 2137	.089	.35	56.70	2
12	9933	15 2282	.014	.09	56.69	2	11	10175	3 2488	-.032	2.02	57.25	2
16	9953	45 1892	-.078	.23	57.33	2	12	10177	12 2328	.016	-.29	56.73	2
17	9954	54 1414	-.080	-.66	56.70	2	15	10186	36 2180	-.039	-1.37	57.74	2
17	9956	66 697	.001	.13	59.45	4	16	10196	41 2183	-.088	-.24	56.71	2
12	9958	12 2300	.030	-.92	57.23	2	11	10198	0 2777	-.001	.13	56.76	2
14	9966	25 2338	-.060	.52	57.25	2	12	10211	15 2326	.038	-.04	56.72	2
11	9967	1 2519	-.012	-.15	57.26	2	17	10212	63 957	-.084	.67	57.28	2
17	9970	56 1498	.023	-.26	56.71	2	16	10225	49 2050	.034	.25	57.70	2
14	9977	21 2282	-.041	-.11	58.97	4	13	10226	18 2488	-.029	.63	57.31	2
16	9986	49 2020	.002	-.22	56.80	2	17	10229	60 1326	-.043	-.34	56.71	2
14	9992	23 2308	.025	-.75	57.73	2	15	10232	32 2146	-.084	-.35	56.73	2
12	9995	9 2452	.009	-.05	57.79	2	13	10241	20 2600	.022	-.17	57.26	2
12	9996	7 2417	-.053	-1.07	58.26	2	12	10242	6 2448	-.051	.17	57.25	2
11	9999	-3 3053	-.030	-.64	58.25	2	7	10249	59 1377	.041	.28	57.72	2
15	10000	36 2157	-.058	-.50	57.35	2	15	10263	29 2160	.005	-.16	56.17	2
5	10003	34 2200	.009	.44	57.80	2	17	10270	69 608	-.116	-.25	59.49	4
17	10004	59 1351	-.071	-.23	57.78	2	14	10271	24 2357	-.095	.32	56.70	2
11	10005	0 2750	-.017	.24	57.81	2	18	10276	70 661	-.134	1.11	57.81	2
17	10009	58 1303	.113	-.82	57.74	2	11	10284	-1 2528	.008	.48	59.47	4
15	10012	28 1971	.044	.24	56.71	2	17	10294	51 1668	-.003	.34	57.74	2
15	10035	26 2181	-.007	.26	56.79	2	12	10300	7 2452	-.010	.67	56.32	2
15	10037	38 2215	-.109	.61	57.80	2	12	10301	6 2454	-.008	-.56	57.79	2
15	10045	33 2088	-.074	-.86	57.17	2	11	10305	0 2444	-.056	-.86	58.34	2
14	10048	22 2329	-.012	-.51	57.81	2	13	10310	17 2363	-.032	.03	56.68	2
12	10051	13 2369	-.039	-.03	58.29	2	17	10327	57 1327	-.010	-.26	56.24	2
17	10056	69 603	-.010	-1.14	57.73	2	16	10334	40 2436	.051	-.19	56.79	2
13	10059	16 2230	.016	.45	58.80	2	15	10339	31 2274	-.071	-.01	57.24	2
12	10060	10 2260	-.021	-.35	58.25	2	14	10340	25 2388	-.005	.68	56.16	2
17	10068	53 1476	-.047	-.18	58.23	2	17	10357	61 1247	.122	.31	56.79	2
15	10069	30 2123	.045	.75	57.85	2	15	10358	34 2230	.056	.25	56.66	2
17	10072	63 947	.082	-.93	57.77	2	13	10359	20 2616	-.006	-.12	57.23	2
11	10074	4 2439	-.053	.28	58.82	2	11	10368	4 2492	-.042	-.40	57.71	2
14	10077	24 2332	-.047	.16	58.75	2	5	10369	26 2231	-.015	-1.20	57.29	3
14	10079	20 2573	.021	.15	57.74	2	12	10371	8 2520	-.004	-.35	58.25	2

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Zone	Star	B. D. No.	$\Delta\alpha$	$\Delta\delta$	Epoch	No.	Zone	Star	B. D. No.	$\Delta\alpha$	$\Delta\delta$	Epoch	No.
12	10377	14 2404	-.032	.21	56.76	2	12	10636	7 2489	.010	-.52	57.74	2
16	10379	49 2066	.101	-.38	57.25	2	7	10638	68 664	.000	.04	57.79	2
16	10394	44 2107	.080	-.49	57.34	2	17	10655	63 981	-.080	.58	57.79	2
12	10405	10 2310	.064	-.10	57.23	2	12	10656	14 2445	.022	.85	56.87	2
13	10406	18 2510	.011	.36	56.73	2	18	10658	74 475	-.195	.15	57.27	2
11	10409	1 2586	-.066	-.03	58.04	4	11	10661	-3 3197	.004	-.03	58.23	2
18	10417	75 450	-.230	.68	57.73	2	12	10668	11 2409	.014	-.65	57.26	2
17	10421	57 1332	-.034	-.23	58.28	2	17	10669	60 1360	-.030	-.46	57.74	2
12	10422	11 2379	-.022	.42	57.80	2	14	10672	21 2373	.045	.06	58.28	2
17	10428	62 1190	.018	.13	57.77	2	12	10676	5 2555	-.046	.24	58.26	2
11	10429	0 2811	.012	-.57	58.34	2	13	10679	18 2539	.006	-.79	57.24	2
17	10443	59 1394	.043	.13	57.74	2	11	10684	4 2541	.005	-.40	57.74	2
14	10446	20 2631	-.102	.21	58.23	2	11	10689	-1 2587	.037	-.80	57.20	2
5	10450	30 2180	.095	1.49	57.27	2	11	10691	0 2858	-.077	-.64	58.34	2
14	10453	24 2374	-.037	.76	56.68	2	11	10692	2 2493	.004	.35	57.84	2
15	10455	39 2460	.000	.28	57.77	2	17	10694	56 1554	.117	-.04	58.26	2
12	10456	8 2533	.034	.39	58.03	4	15	10716	33 2172	-.106	-.30	56.81	2
18	10461	73 531	-.083	.55	57.34	2	12	10717	6 2529	-.009	-.48	56.26	2
13	10463	17 2382	.026	.83	56.17	2	17	10718	53 1516	.066	.14	57.26	2
15	10469	26 2243	.150	-1.05	56.79	2	16	10722	41 2252	.009	.22	56.72	2
15	10470	37 2205	-.040	-1.04	57.73	2	15	10723	27 2071	.067	-.52	57.79	2
16	10491	45 1955	.025	-.75	56.78	2	16	10726	45 1977	.009	.88	58.80	2
15	10494	35 2272	-.091	.36	56.70	2	14	10727	23 2408	-.029	-.74	58.28	2
13	10500	19 2491	-.007	.43	56.79	2	17	10743	55 1500	-.038	-.32	57.20	2
17	10506	56 1540	-.019	-.29	56.66	2	15	10745	38 2294	-.042	.16	57.79	2
17	10514	67 717	.082	-.33	56.69	2	13	10747	16 2323	-.006	.27	57.82	2
14	10520	24 2386	-.072	.66	56.17	2	11	10755	-3 3217	-.036	-.49	57.34	2
16	10528	49 2079	-.050	.32	56.24	2	17	10761	52 1601	-.057	.03	57.32	2
14	10529	22 2396	.011	-.40	58.60	3	13	10766	17 2422	-.006	.43	56.80	2
17	10532	54 1459	-.080	.22	57.72	2	12	10776	8 2559	.012	-.13	56.80	2
11	10533	0 2479	.004	.11	57.74	2	14	10781	25 2448	-.037	.34	58.55	4
13	10545	17 2394	-.007	-.32	57.79	2	17	10783	66 742	-.047	-.34	56.18	2
13	10546	16 2289	-.044	.64	56.79	2	11	10785	0 2878	.056	1.59	57.33	2
14	10551	20 2645	-.009	.15	56.71	2	17	10793	56 1558	.060	.28	57.73	2
12	10553	7 2477	-.054	-.03	56.73	2	11	10795	1 2641	.020	.15	58.23	2
15	10562	40 2461	-.063	-1.28	57.26	2	12	10797	12 2416	.039	-.44	58.06	4
11	10574	4 2526	-.051	-.60	57.26	2	18	10799	78 404	-.105	-.53	57.81	2
12	10576	5 2539	-.003	1.35	58.25	4	16	10801	41 2265	-.121	.11	56.20	2
14	10581	25 2418	-.037	.74	56.73	2	16	10802	47 1923	.042	-.36	56.73	2
15	10588	33 2156	-.025	-.33	56.73	2	15	10806	29 2251	.038	-.13	57.34	2
15	10589	28 2046	-.096	.50	56.26	2	17	10812	62 1214	.024	-.22	56.86	2
12	10605	12 2381	-.030	-.11	57.71	2	16	10818	45 1991	-.120	.95	58.28	2
15	10609	30 2194	.031	1.21	56.72	2	12	10819	8 2566	-.030	-.21	57.86	2
15	10618	35 2285	.055	-1.19	56.17	2	17	10820	64 877	.028	-.51	58.35	2
11	10619	-1 2576	-.040	.65	56.80	2	12	10821	5 2580	.038	-.58	58.74	2
16	10620	44 2132	.085	.83	56.73	2	15	10823	36 2235	-.086	-.50	58.26	2
17	10621	62 1199	-.007	-.04	57.27	2	13	10824	17 2430	.049	-1.09	58.82	2
18	10627	71 588	-.088	-.43	57.26	2	15	10827	33 2189	-.067	-.66	58.34	2
14	10629	23 2396	-.131	.44	57.80	2	14	10830	21 2388	-.111	-.20	56.73	2
17	10634	58 1340	-.022	.51	58.28	2	13	10836	15 2408	-.077	.18	57.27	2

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Zone	Star	B.D. No.	$\Delta\alpha$	$\Delta\delta$	Epoch	No.	Zone	Star	B.D. No.	$\Delta\alpha$	$\Delta\delta$	Epoch	No.
5	10844	27 2092	-.101	.29	58.25	2	18	11064	80 383	-.054	.35	57.88	2
11	10862	0 2894	-.046	-.03	56.19	2	15	11068	32 2234	-.017	-.95	57.34	2
17	10863	69 645	.005	.31	57.26	2	11	11069	4 2606	-.020	-.41	57.79	2
13	10867	20 2683	-.024	-.75	56.78	2	15	11070	35 2333	.045	.18	57.73	2
11	10868	5 2587	.002	.97	57.26	2	11	11074	0 2932	.030	-1.12	56.86	2
12	10870	14 2474	-.042	.32	57.32	2	15	11080	28 2109	-.031	-.44	58.28	2
16	10871	42 2274	-.119	1.24	58.25	2	15	11082	33 2225	-.072	-.29	56.33	2
11	10874	-2 3466	.019	-1.09	57.98	3	14	11090	20 2713	-.008	-.65	56.82	2
18	10875	72 558	.090	-.35	58.31	3	15	11092	40 2529	-.053	.31	57.26	2
12	10878	6 2555	-.119	.63	57.82	2	7	11093	50 1915	-.046	.44	58.26	2
11	10880	-3 3239	-.070	-.06	57.82	2	17	11094	60 1396	-.074	.19	57.73	2
15	10881	31 2332	.014	.48	57.73	2	18	11102	71 613	-.102	.33	56.80	2
15	10885	38 2304	-.073	.38	57.26	2	17	11114	58 1373	-.049	-.02	57.76	4
16	10886	49 2116	-.082	.27	57.36	2	11	11118	5 2623	.025	.59	56.85	2
13	10909	17 2444	-.044	-.38	57.73	2	15	11124	26 2347	-.111	-.80	57.81	2
16	10911	49 2118	-.011	-.60	57.26	2	15	11125	38 2331	-.198	.15	57.81	2
15	10913	29 2263	-.073	-.67	57.33	2	12	11131	10 2421	-.010	-.83	57.78	2
16	10914	45 2001	.055	-1.79	56.81	2	17	11141	55 1531	-.013	-.10	57.34	2
12	10917	15 2422	.023	.72	56.82	2	18	11144	76 449	-.238	.13	57.71	2
11	10929	0 2907	-.068	.93	56.81	2	12	11145	14 2502	.001	-.92	58.56	4
17	10942	65 874	-.084	-.01	57.32	2	16	11146	49 2139	-.174	.23	57.80	2
18	10944	87 104	-.717	.26	57.25	2	11	11148	-2 3520	-.018	.80	58.72	2
18	10951	74 489	-.198	-.01	58.35	2	15	11156	28 2116	.110	-.38	56.28	2
14	10955	22 2450	-.118	-.74	56.73	2	11	11159	5 2630	.016	-.03	56.80	2
17	10959	61 1283	-.018	-1.04	57.81	2	12	11160	6 2615	.031	-.26	56.87	2
12	10960	12 2435	.084	.06	56.80	2	12	11162	9 2629	.001	.07	57.26	2
17	10961	67 735	-.014	.17	58.28	2	13	11166	16 2377	.014	.54	57.74	2
15	10973	27 2105	-.044	.02	57.28	2	18	11171	79 393	-.091	-.06	57.81	2
15	10979	40 2513	-.088	.17	56.81	2	11	11172	-3 3302	.026	-1.09	57.73	2
15	10983	34 2301	-.006	-.56	57.34	2	11	11179	-1 2674	.002	-.51	56.78	2
17	10988	59 1431	-.034	-.14	57.31	2	7	11180	54 1530	-.159	-.62	56.86	2
13	10990	17 2454	-.036	-.19	56.28	2	16	11181	43 2227	-.036	.80	57.82	2
17	10994	53 1535	-.011	-.42	57.37	2	11	11185	0 2583	.001	.12	58.72	2
12	10998	7 2526	-.006	.03	57.28	2	12	11190	15 2469	-.045	.17	58.31	2
11	10999	-3 3257	-.067	-.36	58.28	2	17	11196	63 1017	-.211	-.30	57.88	2
11	11002	-1 2639	-.009	.50	58.71	2	15	11204	34 2319	.018	-1.77	58.27	2
11	11007	1 2676	-.051	-.25	58.34	2	15	11209	32 2252	.036	.03	57.80	2
5	11011	36 2257	-.002	-.37	56.34	2	18	11220	77 475	-.325	-.08	57.71	2
11	11023	3 2626	-.046	.15	57.80	2	13	11229	18 2622	-.007	.23	57.82	2
12	11027	8 2586	-.038	.18	56.81	2	14	11231	21 2428	.033	-.08	56.78	2
11	11028	-2 3494	-.042	.16	57.82	2	12	11248	8 2618	.038	.63	57.73	2
16	11029	41 2287	-.041	.52	58.27	2	14	11249	25 2522	-.008	-.27	57.25	2
13	11033	18 2587	.006	.92	58.28	2	11	11251	5 2643	-.056	.34	57.79	2
17	11039	66 754	-.073	.26	57.73	2	15	11252	28 2133	-.081	.35	57.87	2
16	11040	47 1949	-.054	.24	56.81	2	16	11260	42 2322	-.084	-.20	57.73	2
17	11041	53 1537	-.059	.07	57.79	2	17	11266	59 1448	-.042	-.15	57.28	2
17	11049	63 1009	-.008	.06	58.80	2	16	11269	47 1970	-.032	-.26	57.31	2
16	11052	48 2017	-.003	-.01	58.77	2	15	11270	28 2134	-.023	.07	58.28	2
16	11054	44 2180	-.055	-.51	57.25	2	3	11284	17 2500	-.031	-.08	58.74	2
18	11062	84 274	.029	.12	57.79	2	16	11288	46 1797	-.034	.10	57.25	2

OBSERVED - AGK 2							OBSERVED - AGK 2						
Zone	Star	B.D. No.	$\Delta\alpha$	$\Delta\delta$	Epoch	No.	Zone	Star	B.D. No.	$\Delta\alpha$	$\Delta\delta$	Epoch	No.
11	11295	1 2724	-.001	.20	57.28	2	16	11539	47 1998	-.026	-.41	56.88	2
14	11299	21 2434	-.122	1.18	56.89	2	17	11540	60 1425	.025	-.04	57.81	2
12	11300	15 2483	.058	-.53	57.86	2	11	11541	5 2690	.022	-.68	57.77	2
12	11308	13 2561	.009	.05	56.81	2	14	11548	25 2571	-.058	-.06	57.39	2
13	11312	19 2590	.013	.43	56.74	2	17	11549	63 1038	.051	-.58	58.28	4
11	11325	-3 3329	-.048	.69	57.49	4	15	11550	27 2189	.017	.30	56.82	2
17	11333	61 1307	-.051	-.17	56.27	2	15	11554	37 2334	.024	-.37	57.82	2
15	11343	37 2306	.026	-.73	56.79	2	15	11561	40 2590	-.027	.44	57.36	2
6	11345	43 2249	.043	-.88	57.33	2	11	11562	2 2599	-.029	-.32	58.74	2
5	11346	25 2544	-.013	.26	57.72	2	15	11570	33 2284	-.055	-.27	58.69	2
15	11349	34 2341	-.082	.96	57.77	4	12	11572	13 2607	.043	.61	56.79	2
12	11350	8 2626	-.008	.11	59.27	4	17	11575	64 923	-.078	.01	57.79	2
18	11352	75 479	-.015	.24	57.36	2	17	11585	53 1577	-.023	.23	56.81	2
11	11376	-4 3331	-.036	.06	57.32	2	4	11588	24 2508	-.008	.31	57.73	2
12	11380	9 2661	.045	.53	57.73	2	5	11590	30 2345	-.085	-1.20	57.28	2
15	11381	33 2261	.036	-.23	57.80	2	18	11591	79 407	.098	-.73	57.82	2
11	11383	0 2972	-.003	.28	56.28	2	12	11596	11 2515	.019	.34	57.36	2
17	11390	57 1388	-.026	-.08	56.72	2	7	11597	51 1797	-.023	.50	58.34	2
5	11399	40 2566	.001	-.04	57.34	2	15	11608	26 2409	-.021	-.29	57.39	2
12	11405	11 2487	-.039	.24	57.26	2	13	11612	18 2681	-.018	.60	56.34	2
11	11412	1 2746	-.007	.40	56.87	2	6	11613	49 2175	.279	-.32	58.74	2
13	11417	18 2655	-.040	-.24	56.89	2	11	11614	0 2637	-.040	.82	57.70	2
15	11423	28 2148	-.008	.27	57.27	2	17	11624	59 1475	.021	.03	56.82	2
11	11440	0 2608	-.035	-.79	56.79	2	17	11628	62 1268	-.090	.19	56.28	2
13	11441	17 2532	-.065	.41	57.36	2	11	11633	-4 3390	-.010	.10	57.84	2
5	11444	37 2324	-.076	-.37	57.70	2	11	11645	3 2719	.011	.06	57.26	2
16	11445	48 2055	-.039	-.01	58.37	3	11	11650	4 2683	-.041	.88	56.81	2
16	11446	43 2258	.058	.48	57.83	2	7	11653	55 1571	-.045	-.43	56.82	2
15	11450	33 2269	.006	-1.34	58.39	2	18	11655	88 76	.150	-.06	57.87	2
12	11451	7 2575	.000	-.42	58.28	2	15	11657	39 2589	-.039	.43	56.72	2
11	11452	-3 3360	-.071	.14	58.72	2	16	11661	46 1836	-.053	-.29	56.81	2
17	11453	53 1568	-.092	-1.17	57.31	2	15	11665	26 2416	-.027	-1.17	57.80	2
14	11460	24 2495	-.009	-.39	56.81	2	11	11666	2 2614	-.058	.17	56.80	2
14	11464	21 2458	.001	-.61	57.34	2	14	11668	22 2537	-.016	-.90	56.25	2
17	11472	61 1319	.091	.18	58.73	2	13	11672	19 2628	.009	.70	56.79	2
13	11475	16 2427	.031	.23	56.82	2	16	11683	46 1839	-.010	-.19	56.72	2
15	11483	34 2358	-.123	-.58	57.83	2	17	11687	51 1802	.015	.05	56.87	2
17	11484	55 1555	-.057	-.31	57.73	2	15	11699	31 2445	-.034	-1.12	56.78	2
15	11486	36 2309	.035	-.57	57.27	2	12	11713	10 2509	-.003	-.89	57.81	2
15	11491	39 2568	.010	.09	57.83	4	7	11714	66 787	.104	.42	58.32	4
14	11494	22 2517	.003	-.69	57.38	2	17	11717	54 1566	-.114	.32	57.80	2
16	11504	46 1824	-.003	-.50	56.28	2	5	11719	36 2336	-.136	-.37	57.94	3
17	11505	59 1468	-.033	.09	57.79	2	15	11731	27 2212	-.132	-.49	57.86	2
13	11511	15 2512	-.039	.02	57.36	2	15	11742	34 2389	-.050	-.15	57.81	2
16	11512	50 1954	-.065	-.81	56.73	2	15	11748	29 2369	-.055	.78	57.32	2
17	11515	58 1397	.031	-.09	56.89	2	17	11749	60 1445	-.007	-.44	58.25	2
15	11520	26 2399	-.074	-.50	57.41	2	11	11753	2 2626	.012	.03	57.89	2
11	11523	0 2622	.025	-.47	58.25	2	16	11760	43 2300	-.064	-.02	57.33	2
17	11529	51 1792	-.026	-.14	56.82	2	18	11762	72 600	-.069	-.03	57.36	2
5	11530	34 2365	-.020	-.16	58.27	2	17	11766	63 1053	.075	-.29	57.87	2

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Zone	Star	B.D. No.	$\Delta\alpha$	$\Delta\delta$	Epoch	No.	Zone	Star	B.D. No.	$\Delta\alpha$	$\Delta\delta$	Epoch	No.
14	11768	23 2541	.076	-.08	57.33	2	15	12044	27 2255	-.091	-.36	57.33	2
13	11774	19 2642	.011	1.19	57.35	2	11	12056	-3 3476	-.005	-.22	58.34	2
15	11775	31 2456	.006	.09	56.26	2	15	12061	34 2426	-.016	.97	57.32	2
16	11776	50 1982	-.011	.70	56.81	2	14	12066	20 2837	-.015	.59	57.36	2
12	11780	6 2700	-.057	-.11	57.34	2	11	12075	2 2685	-.031	-.34	58.55	4
13	11784	17 2596	-.009	.10	58.28	2	17	12077	53 1624	-.098	.28	58.73	2
13	11790	16 2470	.049	.10	58.72	2	17	12079	67 786	-.185	-.28	57.90	2
11	11795	0 3030	-.012	-.07	57.36	2	17	12083	50 2006	-.045	.84	57.82	2
15	11806	27 2224	-.072	-.45	57.34	2	17	12091	61 1359	.093	-.36	58.66	3
14	11808	20 2806	.035	-.20	57.36	2	18	12097	75 507	-.204	.20	57.79	2
16	11809	41 2364	-.056	.66	57.81	2	14	12098	22 2589	-.011	.24	57.40	2
15	11810	35 2419	.022	-1.71	57.87	2	13	12104	17 2641	-.039	-.17	58.77	2
16	11811	47 2027	-.050	.22	58.35	2	15	12107	27 2264	-.201	-1.62	56.87	2
12	11812	13 2643	-.034	-.11	57.36	2	12	12109	10 2556	-.009	-.29	57.79	2
12	11815	11 2543	.033	-.48	58.86	4	15	12114	40 2663	-.005	.62	58.51	4
7	11816	56 1645	.042	-.15	57.33	2	17	12119	65 943	.018	.61	56.91	2
12	11823	9 2727	.009	.14	57.27	2	17	12120	57 1446	-.052	-.14	57.33	2
12	11848	10 2523	.064	.84	56.72	2	11	12121	1 2826	.012	-.17	57.81	2
16	11852	45 2096	-.011	-.65	56.33	2	11	12128	3 2792	.035	-.16	57.33	2
14	11854	23 2551	.007	-.50	56.88	2	13	12129	17 2645	-.026	-.14	57.31	3
7	11855	61 1344	-.083	-.27	56.89	2	13	12137	19 2688	.002	-.29	57.36	2
17	11868	51 1824	-.105	-.69	57.26	2	12	12140	14 2636	.056	-.03	59.28	4
13	11877	18 2708	-.007	.41	56.78	2	18	12141	73 595	-.101	.05	57.32	2
17	11878	54 1584	-.043	-1.22	56.87	2	16	12145	47 2069	-.041	-.20	57.40	2
15	11893	29 2386	-.064	-.19	56.81	2	15	12161	35 2466	.033	-.93	57.73	2
11	11922	3 2755	.036	-1.12	56.87	2	11	12165	0 3079	.030	-.17	58.93	5
15	11926	34 2411	-.066	-.03	57.25	2	14	12168	24 2604	-.124	-.29	56.91	2
15	11934	37 2396	-.108	.68	56.90	2	14	12170	20 2848	-.023	-1.60	57.36	2
12	11940	9 2744	-.017	-.56	57.31	2	17	12186	60 1476	.035	-.75	56.90	2
17	11947	65 927	.025	.28	56.82	2	15	12191	34 2435	.039	-.67	57.34	2
14	11952	24 2570	-.097	-.05	57.27	2	16	12194	42 2424	-.019	-.20	56.87	2
11	11958	3 2761	-.026	-.33	57.34	2	6	12197	44 2289	-.015	-.60	57.34	2
15	11962	31 2474	-.141	.16	57.26	2	17	12202	51 1858	-.002	.52	56.91	2
11	11972	0 3049	.021	.77	56.90	2	12	12203	10 2573	-.002	-.02	56.88	2
16	11978	45 2106	.030	.30	56.87	2	11	12204	-1 2847	-.027	.10	58.71	2
17	11982	52 1698	-.014	.65	56.80	2	17	12205	55 1624	-.014	.49	57.78	2
16	11986	46 1865	-.003	-.13	57.40	2	15	12208	39 2665	-.022	-.40	57.36	2
7	11987	51 1837	-.152	-.90	57.35	3	17	12218	58 1459	-.031	-.27	58.25	2
13	11990	19 2667	.005	.24	58.25	2	18	12221	78 464	-.177	-.08	57.26	2
11	11991	-4 3470	.036	1.04	57.34	2	15	12222	26 2481	.032	.08	56.41	2
11	11992	-1 2815	.001	1.76	57.82	2	11	12223	-4 3533	-.064	.78	57.81	2
15	11994	35 2445	.010	-1.17	57.42	2	15	12224	29 2446	-.046	.53	57.36	2
11	11999	5 2742	.050	.56	57.80	2	7	12227	62 1308	.023	-.08	57.91	2
17	12005	55 1602	-.116	.01	58.07	4	16	12229	45 2124	-.025	-.24	56.87	2
12	12006	11 2563	-.029	-.06	57.77	2	16	12232	40 2677	-.018	-1.43	57.80	2
17	12007	66 807	.026	-.17	58.34	2	12	12235	9 2796	-.047	.23	57.28	2
13	12008	17 2626	-.036	.12	57.74	2	13	12237	16 2539	.027	-.02	57.88	2
15	12009	26 2460	.092	-.63	56.79	2	18	12239	70 753	-.075	.08	57.88	2
11	12013	-2 3684	.011	.57	57.36	3	17	12247	64 961	.120	.44	58.67	3
8	12028	84 310	.161	.49	57.99	3	11	12248	2 2710	-.001	.59	56.87	2

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Zone	Star	B. D. No.	$\Delta\alpha$	$\Delta\delta$	Epoch	No.	Zone	Star	B. D. No.	$\Delta\alpha$	$\Delta\delta$	Epoch	No.
13	12257	15 2609	-.002	.13	56.81	2	12	12532	6 2819	.026	-.96	57.80	2
11	12263	0 2727	.022	-.55	57.87	2	5	12533	31 2574	-.098	-.13	57.74	2
15	12275	36 2406	.043	.26	58.29	4	15	12540	29 2483	-.132	-1.30	57.32	2
18	12281	80 421	-.186	.65	57.34	2	17	12547	50 2041	-.036	-.21	57.34	2
17	12287	56 1682	.012	.18	57.80	2	18	12552	71 673	-.069	.08	57.37	2
17	12289	60 1486	-.001	.21	57.82	2	16	12554	44 2319	-.065	.14	57.42	2
16	12299	41 2422	-.080	.40	56.88	2	11	12559	-1 2897	.000	.30	56.90	2
13	12301	16 2551	.004	.11	57.87	2	13	12560	18 2815	-.016	.09	57.26	2
15	12302	35 2480	-.076	-.16	57.86	2	12	12563	14 2692	-.033	.38	57.77	2
16	12304	43 2350	-.034	1.04	57.35	2	15	12570	33 2402	-.021	.66	57.39	2
11	12310	1 2847	.036	-.97	57.80	2	17	12573	55 1650	.043	-.19	57.36	2
17	12319	52 1739	-.077	.00	58.86	2	12	12578	13 2742	-.020	-.53	56.82	2
12	12321	11 2601	.062	.36	57.79	2	11	12582	3 2847	.006	-.01	57.34	2
16	12323	48 2152	-.130	-.13	57.87	2	17	12583	59 1553	.036	-.68	57.78	2
11	12326	4 2783	-.013	-.63	58.72	2	15	12584	37 2490	.002	-.18	57.42	2
11	12343	2 2727	.002	-.25	58.42	2	14	12586	22 2659	-.001	-.04	56.82	2
14	12344	24 2641	.011	-.47	57.79	2	13	12599	17 2699	-.032	-.50	58.74	2
17	12360	63 1094	-.087	.33	58.36	2	11	12603	2 2771	.011	.04	56.82	2
8	12364	74 554	.038	.57	56.82	2	11	12608	-3 3580	.044	-.18	57.36	2
11	12372	3 2819	-.033	-.36	56.82	2	14	12610	24 2685	-.063	-.30	57.42	2
17	12377	55 1637	-.089	-.84	57.34	2	15	12612	28 2292	-.096	.50	56.90	2
18	12378	85 234	.150	-.42	57.34	2	12	12627	6 2839	-.004	-.60	57.28	2
15	12383	36 2414	.008	.00	57.38	2	11	12630	0 3135	-.017	.44	56.82	2
16	12384	46 1906	-.038	-.25	58.26	2	13	12636	16 2612	.002	.07	57.79	2
12	12397	6 2802	.027	-.15	57.80	2	17	12650	52 1776	.060	-.16	56.90	2
17	12403	51 1874	.017	.55	57.88	2	15	12651	32 2435	.019	-.56	56.82	2
11	12404	1 2857	-.037	.63	57.34	2	11	12653	3 2859	-.077	.60	57.26	2
13	12405	17 2676	-.006	.82	58.31	2	18	12658	82 411	-.020	-.01	59.33	4
12	12413	9 2820	.001	-.87	57.34	2	12	12661	15 2670	-.014	.66	57.34	2
17	12422	58 1474	-.007	-.28	57.89	2	11	12672	-4 3633	-.043	-.37	56.82	2
17	12428	64 970	-.125	-.81	58.59	3	16	12673	41 2471	.045	1.22	57.80	2
13	12435	16 2577	.028	.36	58.34	2	11	12683	2 2782	.001	.54	56.90	2
12	12437	8 2786	-.011	.23	57.80	2	17	12692	63 1120	-.072	.27	58.36	2
11	12442	-3 3549	.033	.72	58.54	5	16	12701	43 2392	-.081	-.91	57.80	2
13	12446	20 2897	-.117	.49	57.26	2	12	12704	8 2827	-.025	.68	57.33	2
7	12450	50 2034	-.077	-.66	58.79	4	12	12708	10 2649	.005	-.30	57.40	2
17	12452	61 1387	.102	.62	58.85	2	13	12713	17 2717	-.007	-.09	57.41	2
12	12453	14 2681	-.013	.48	57.88	2	17	12715	51 1898	-.201	1.03	59.33	4
15	12464	32 2412	-.079	-.39	57.72	2	12	12720	7 2760	.012	-1.43	57.35	2
18	12468	70 762	-.042	.10	58.29	4	11	12732	-4 3645	-.043	.61	57.34	2
18	12469	76 504	.251	.11	58.25	2	16	12752	45 2165	-.082	.87	57.87	2
16	12477	44 2312	-.066	.91	57.42	2	12	12757	13 2771	.043	-.16	56.88	2
15	12483	38 2494	-.079	.18	57.81	2	14	12766	23 2671	.006	-.53	57.34	2
11	12499	3 2836	.002	.19	58.36	2	15	12772	38 2538	-.017	.58	57.26	2
15	12500	33 2390	-.036	-.27	57.26	2	18	12774	74 573	-.069	.10	56.80	2
16	12506	47 2108	-.167	1.00	56.34	2	12	12782	12 2677	-.105	.42	57.87	2
16	12523	42 2455	.018	.40	57.39	2	12	12787	14 2722	-.024	-.15	57.42	2
17	12525	56 1700	.039	-.55	57.36	2	11	12792	4 2847	-.120	-.13	58.34	2
15	12526	35 2516	-.066	.66	57.80	2	13	12802	18 2861	-.089	.69	57.36	2
11	12527	-1 2888	-.057	.45	58.34	2	14	12803	20 2957	-.029	-.66	57.79	2

OBSERVED - AGK 2							OBSERVED - AGK 2						
Zone	Star	B.D. No.	$\Delta\alpha$	$\Delta\delta$	Epoch	No.	Zone	Star	B.D. No.	$\Delta\alpha$	$\Delta\delta$	Epoch	No.
11	12809	0 3162	.020	-.19	56.34	2	12	13018	8 2883	.011	-.19	57.79	2
17	12810	54 1661	-.080	-.77	57.34	2	4	13019	22 2718	-.231	-.49	56.34	2
13	12815	15 2695	-.001	.04	57.87	2	15	13020	39 2778	-.137	1.13	57.87	2
18	12817	79 443	-.086	-.35	58.35	2	18	13022	75 539	.061	-2.40	58.35	2
18	12821	84 322	-.117	.19	57.82	2	11	13024	0 2845	-.024	.24	57.40	2
4	12827	25 2759	-.216	.31	57.79	2	12	13026	6 2912	.013	.23	58.77	2
18	12830	76 520	-.078	-.91	57.33	2	13	13036	19 2824	-.027	.48	57.86	2
13	12835	19 2796	.004	.36	56.86	2	6	13043	41 2513	-.049	-.40	58.35	2
5	12844	34 2522	.054	.33	58.69	2	11	13045	0 3207	.019	1.60	58.88	2
12	12847	7 2774	.008	.19	56.88	2	15	13047	35 2581	-.010	-.13	59.27	2
15	12852	36 2478	.110	.42	57.81	2	5	13053	27 2396	-.027	-.79	57.80	2
13	12857	18 2870	.028	.06	57.33	2	16	13058	48 2220	-.098	.56	58.59	4
14	12861	24 2728	-.015	.69	57.90	2	14	13059	24 2745	-.015	-1.44	56.82	2
16	12864	46 1960	-.098	-.66	56.88	2	12	13067	15 2732	.035	.21	58.39	2
17	12871	64 997	.014	-.36	56.33	2	16	13069	50 2098	-.033	-.09	58.07	4
16	12872	44 2350	-.001	.43	58.36	2	15	13070	28 2349	-.025	-.36	57.88	2
16	12875	50 2070	-.006	-.10	58.67	3	17	13079	55 1699	-.074	.37	58.76	5
11	12879	-1 2951	.014	1.01	57.38	2	15	13093	30 2541	.031	.18	57.33	2
12	12888	6 2878	-.058	-.35	57.97	2	17	13095	69 761	.069	-.39	58.95	2
13	12889	20 2975	-.014	-.15	58.33	2	14	13102	22 2727	-.185	-.23	58.28	2
13	12891	18 2877	-.008	-.06	56.79	2	12	13104	10 2720	.007	-.02	57.26	2
18	12894	77 541	-.126	.74	57.82	2	15	13107	38 2578	-.045	-.02	56.89	2
18	12908	83 415	.213	.95	57.82	2	12	13108	9 2928	-.019	-.67	57.86	2
15	12914	28 2325	-.154	-.77	56.86	2	12	13115	12 2725	.004	.14	57.91	2
17	12919	53 1711	-.072	.31	56.82	2	17	13118	67 847	.027	.37	57.79	2
16	12920	48 2202	-.080	.38	57.87	2	11	13122	0 3223	.042	-1.60	57.34	2
12	12923	15 2714	.022	.22	56.89	2	11	13124	0 2855	.055	-.59	57.86	2
15	12924	35 2561	-.173	.22	57.79	2	18	13130	70 799	.012	.75	58.35	2
17	12925	51 1921	.076	-1.24	57.36	2	11	13142	-4 3736	-.021	.39	57.89	2
17	12936	63 1132	-.098	.44	57.42	2	11	13144	2 2854	.003	-.27	58.87	2
15	12938	29 2538	.061	.31	56.90	2	14	13150	21 2677	-.033	-.03	58.41	2
12	12941	6 2891	-.001	.85	58.33	2	18	13155	80 451	.001	.00	57.88	2
15	12943	38 2557	-.055	.43	59.01	3	16	13156	49 2319	-.023	-.40	57.86	2
11	12950	1 2939	-.004	-.46	58.34	2	14	13172	23 2729	-.006	.35	57.33	2
12	12958	11 2684	.036	-.31	58.81	2	17	13176	66 867	-.014	-.05	57.87	2
15	12961	40 2785	.067	1.21	57.88	2	17	13177	51 1945	-.161	1.63	56.89	2
13	12968	20 2981	-.057	1.26	57.79	2	11	13180	4 2909	-.001	.18	57.34	2
11	12971	-2 3855	.020	-.59	56.34	2	15	13184	32 2511	.021	-1.13	57.36	2
15	12973	25 2786	-.022	-.16	56.90	2	5	13191	39 2797	.062	.21	58.72	2
17	12974	69 751	-.152	.05	57.42	2	15	13192	34 2559	.029	-.40	58.40	2
17	12975	56 1742	.052	.03	57.35	2	17	13194	61 1456	-.139	.80	57.42	2
16	12979	43 2414	.035	-.53	58.39	2	17	13197	56 1757	.012	.11	58.86	2
16	12984	46 1966	-.168	.25	57.86	2	13	13200	17 2783	-.053	.28	57.34	2
18	12985	72 645	.007	.24	57.87	2	15	13209	26 2598	.040	-.13	57.36	2
11	12988	-1 2963	.026	.56	57.97	2	16	13214	44 2391	-.078	.30	57.33	2
15	12991	31 2627	-.048	-.01	57.87	2	16	13230	48 2240	-.043	.57	56.85	2
14	12993	22 2714	-.070	-.21	57.80	2	15	13236	38 2591	-.035	-.20	56.89	2
5	13000	33 2471	-.064	-1.77	58.72	2	17	13242	53 1737	-.069	-.30	56.42	2
16	13007	41 2510	-.084	.04	57.34	2	14	13246	21 2692	.077	.11	57.86	2
11	13016	2 2836	-.030	-.21	57.79	2	11	13250	2 2869	-.049	.78	57.33	2

OBSERVED - AGK 2							OBSERVED - AGK 2						
Zone	Star	B. D. No.	$\Delta\alpha$	$\Delta\delta$	Epoch	No.	Zone	Star	B. D. No.	$\Delta\alpha$	$\Delta\delta$	Epoch	No.
11	13251	4 2924	-.064	-.29	57.87	2	16	13565	45 2262	-.039	-.15	56.96	2
17	13253	64 1031	-.011	.25	57.87	2	12	13567	7 2909	-.031	.10	57.43	2
17	13255	54 1708	-.051	.53	58.72	2	17	13582	55 1736	-.066	.89	57.65	4
17	13256	50 2120	.078	.75	58.35	2	11	13589	0 3318	-.013	.50	56.40	2
15	13271	31 2668	-.015	-.19	57.87	2	17	13591	59 1632	.001	.74	56.88	2
12	13276	14 2796	-.044	.99	57.33	2	11	13595	-4 3832	-.004	.42	56.87	2
17	13281	66 873	-.032	.34	56.90	2	8	13603	89 28	1.283	-.79	59.39	4
16	13295	44 2399	-.233	.37	56.87	2	17	13607	53 1771	.028	.30	57.34	2
17	13333	60 1572	-.002	.99	56.90	2	12	13609	5 2981	-.005	-1.10	57.43	2
12	13335	7 2865	.006	.82	57.39	2	16	13610	49 2363	-.055	1.20	58.30	4
11	13337	1 3002	.079	.11	57.77	2	13	13614	16 2752	.005	.75	57.43	2
5	13338	28 2381	.005	.21	56.87	2	12	13617	12 2809	.010	.25	58.40	2
15	13343	33 2510	.015	-.63	59.11	4	18	13629	73 664	-.104	.18	58.42	2
15	13349	40 2827	.017	.51	58.14	4	15	13641	34 2617	-.037	.46	56.89	2
18	13350	87 143	-.379	.06	58.41	2	18	13646	76 557	-.170	1.26	56.88	2
11	13358	-4 3779	.032	1.14	58.80	2	15	13652	27 2469	-.089	-.22	57.43	2
13	13360	17 2803	-.018	.19	57.96	2	13	13655	19 2945	.074	-.55	56.36	2
11	13363	4 2939	.017	-.30	58.82	2	14	13658	24 2838	-.105	.64	58.36	2
16	13365	48 2248	-.129	.63	59.88	2	15	13660	39 2858	-.079	.27	59.65	4
17	13374	67 858	-.068	.42	56.33	2	12	13661	14 2856	-.060	.94	58.95	2
17	13375	57 1544	.036	.87	56.87	2	5	13665	29 2646	.015	-.41	57.87	2
11	13384	0 3286	.014	.00	57.87	2	14	13666	21 2751	-.101	-1.14	58.88	2
15	13391	25 2856	-.067	.61	56.89	2	15	13667	25 2891	-.017	-1.15	57.82	2
5	13395	35 2634	-.035	.00	57.80	2	11	13669	0 2948	-.006	-.25	58.41	2
14	13400	20 3051	.066	.56	57.79	2	11	13671	4 2993	.022	.29	56.87	2
15	13402	30 2596	-.070	-1.35	58.34	2	12	13684	7 2937	-.005	-.41	56.81	2
12	13407	8 2955	-.086	.52	58.86	2	17	13687	52 1865	.019	-.09	56.88	2
17	13411	61 1473	.071	-.02	57.87	4	3	13688	15 2842	.027	.52	57.91	4
11	13418	2 2900	.002	.27	56.40	2	16	13689	45 2277	-.135	1.05	57.36	2
18	13430	77 565	.086	.15	56.96	2	15	13698	30 2643	-.013	-.32	57.41	2
6	13434	46 2017	-.089	.94	57.87	2	17	13700	60 1603	.008	-.06	58.82	2
13	13437	15 2808	.005	.46	57.41	2	17	13709	61 1495	-.058	-.52	56.92	2
16	13442	42 2559	-.010	.27	57.78	2	11	13711	0 3348	.021	-.50	58.33	2
4	13452	24 2814	.037	-.79	56.89	2	14	13718	23 2804	-.025	.27	56.87	2
12	13454	5 2962	.024	-.21	56.96	2	17	13719	68 828	.085	.61	56.91	2
13	13456	18 2972	.024	-.09	57.49	2	13	13721	18 3008	-.063	.20	58.34	2
16	13463	48 2258	-.231	-.49	57.84	2	6	13722	48 2284	-.013	.12	56.89	2
12	13471	11 2762	.015	.18	57.93	2	16	13726	40 2874	.084	.73	58.48	2
18	13473	84 339	.173	-.05	58.91	2	14	13727	22 2824	.037	-.05	57.34	2
12	13488	12 2785	-.012	-.03	56.40	2	18	13728	78 510	-.102	-.62	58.42	2
11	13500	-1 3020	-.011	.38	56.94	2	16	13733	43 2491	-.029	.99	56.89	2
11	13508	0 3304	.008	.70	58.60	4	11	13742	-2 3985	.013	.11	57.88	2
12	13514	6 3000	.033	-.30	59.11	4	15	13746	28 2425	.015	-.82	58.33	2
3	13527	18 2977	.020	.60	56.87	2	17	13750	56 1798	-.103	.53	57.86	2
15	13533	27 2457	.002	.11	57.86	2	12	13758	9 3031	.016	-.60	57.87	2
17	13544	58 1552	.004	.34	56.44	2	15	13759	25 2908	.037	.16	58.34	2
11	13549	4 2971	.009	.91	56.33	2	17	13763	65 1052	.089	.08	57.83	2
17	13555	61 1484	.030	.07	56.34	2	17	13766	63 1194	-.045	.52	59.39	2
15	13560	27 2461	-.008	.12	57.34	2	13	13767	17 2859	-.052	.35	58.87	2
18	13562	70 826	.065	.70	56.92	2	12	13770	8 3026	-.027	-.87	58.91	4

OBSERVED - AGK 2							OBSERVED - AGK 2						
Zone	Star	B. D. No.	$\Delta\alpha$	$\Delta\delta$	Epoch	No.	Zone	Star	B. D. No.	$\Delta\alpha$	$\Delta\delta$	Epoch	No.
15	13777	29 2663	-.050	-.18	57.42	2	11	14041	2 2987	.057	-.27	57.35	2
17	13796	59 1655	-.096	-.36	56.92	2	17	14044	55 1773	.002	.78	57.36	2
16	13797	44 2464	.050	.05	57.87	2	12	14047	13 2993	-.012	.66	56.44	2
11	13799	-3 3784	-.077	-.63	58.88	2	11	14049	-2 4040	.035	.12	58.34	2
11	13803	-1 3057	-.009	.47	57.94	2	16	14052	48 2322	-.091	.00	56.92	2
11	13807	1 3080	.003	.15	59.35	2	17	14068	67 915	-.064	1.27	56.34	2
5	13811	37 2644	.028	.49	56.89	2	4	14070	24 2919	-.052	.80	57.82	2
11	13812	0 2971	-.005	-.84	58.35	2	12	14075	6 3096	.037	-.76	57.87	2
18	13816	73 678	-.034	-.14	57.80	2	11	14077	-3 3824	-.032	-.19	58.39	2
12	13824	7 2968	.002	-.37	57.36	2	17	14078	53 1807	-.020	.25	57.40	2
11	13827	3 3039	-.056	.09	58.94	2	17	14085	55 1775	-.016	.77	58.49	4
11	13832	2 2968	.066	1.19	57.37	2	11	14091	-4 3975	-.073	.79	58.90	2
13	13835	16 2790	-.103	.51	56.88	2	15	14098	27 2538	-.068	.66	58.42	2
13	13843	19 2973	-.061	.01	56.87	2	13	14100	19 3018	-.038	.26	59.00	2
15	13844	33 2594	-.065	.02	57.93	2	5	14108	35 2731	-.046	-.45	57.85	2
11	13852	-3 3793	.004	.96	58.28	2	18	14114	74 630	-.024	.43	58.90	2
16	13853	46 2074	-.013	.37	59.03	3	12	14127	10 2911	-.043	.39	56.88	2
12	13865	14 2889	-.019	.18	58.34	2	12	14128	7 3037	-.001	-.32	57.88	2
6	13868	49 2398	-.106	.70	57.37	2	15	14130	25 2973	-.060	.01	57.80	2
15	13874	40 2896	.004	1.09	58.86	4	6	14131	49 2428	.065	-.23	57.40	2
12	13879	10 2871	-.035	.62	56.96	2	18	14139	81 531	-.206	.38	58.42	2
14	13882	21 2783	-.009	.56	57.79	2	14	14141	21 2827	.023	-.03	58.42	2
7	13884	64 1075	-.046	.14	58.42	2	16	14142	47 2272	.058	-.20	57.95	2
12	13891	13 2960	.016	.17	57.35	2	17	14145	63 1228	-.003	.40	58.42	2
17	13896	69 801	-.004	-.11	57.87	2	15	14147	39 2922	-.083	-.18	58.82	2
17	13907	53 1790	-.006	-.19	56.91	2	13	14149	16 2835	-.047	.89	57.38	2
11	13909	0 3375	.026	-.72	57.93	2	15	14151	38 2708	-.108	.73	57.86	2
13	13910	18 3040	-.023	.90	58.41	2	17	14152	61 1543	-.043	.25	59.12	4
11	13926	-2 4021	-.028	.54	56.82	2	17	14154	59 1682	-.053	-.21	58.90	2
5	13927	35 2705	-.135	-1.58	58.12	4	13	14158	19 3024	.009	.49	58.47	2
16	13928	50 2195	-.074	.96	56.82	2	16	14174	44 2516	-.031	-.29	56.87	2
15	13931	28 2447	.007	-.17	56.95	2	4	14176	20 3163	-.072	-.47	57.36	2
16	13933	45 2307	.025	-.86	57.87	2	15	14185	28 2487	-.140	-1.85	57.82	2
11	13951	0 2990	.014	.00	56.91	2	11	14187	0 3423	-.029	-.58	57.41	2
18	13967	79 470	-.089	.57	57.93	2	12	14194	13 3027	.024	.66	58.90	2
12	13968	7 2996	-.014	-.66	57.80	2	11	14196	2 3020	.022	-.22	57.95	2
12	13975	6 3076	-.058	.22	57.40	2	15	14202	32 2642	-.019	.83	56.35	2
17	13983	63 1216	-.102	.14	58.42	2	12	14220	8 3108	.057	1.15	56.87	2
5	13984	39 2895	-.062	.02	58.34	2	12	14224	10 2927	.004	-.24	57.42	2
12	13987	9 3080	.048	-.18	57.88	2	17	14228	54 1780	-.057	.91	57.82	2
5	13989	33 2611	.060	-.27	57.90	2	14	14230	21 2851	-.048	-.36	57.89	2
17	13994	52 1890	-.104	-.16	57.43	2	15	14231	31 2799	-.013	.11	56.95	2
17	13995	57 1598	.169	-.58	58.46	2	17	14235	56 1844	-.075	.26	58.39	2
15	14004	34 2674	-.023	.21	56.34	2	11	14236	-2 4077	-.033	.16	58.41	2
13	14011	19 3002	.007	-.33	57.33	2	11	14237	0 3040	.001	-.74	58.41	2
16	14012	41 2622	-.019	.90	57.82	2	17	14241	57 1620	-.140	.30	57.88	2
17	14014	65 1069	-.043	-.48	57.42	2	13	14243	17 2938	-.007	.97	57.42	2
11	14017	0 3001	.030	.09	56.88	2	13	14248	19 3042	-.106	.04	57.39	2
18	14032	75 574	-.050	.48	57.85	2	12	14253	13 3037	.003	.12	57.88	2
15	14033	27 2528	.044	-.19	57.40	2	18	14255	72 703	-.190	.22	57.86	2

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Zone	Star	B.D. No.	$\Delta\alpha$	$\Delta\delta$	Epoch	No.	Zone	Star	B.D. No.	$\Delta\alpha$	$\Delta\delta$	Epoch	No.
16	14257	48 2346	-.039	-.29	57.82	2	12	14553	12 2993	-.008	-.68	56.88	2
15	14261	34 2716	-.030	-.16	56.41	2	11	14564	-2 4160	-.035	.40	57.36	2
11	14274	1 3154	-.051	.52	58.64	3	17	14565	62 1470	-.075	-.77	57.96	2
16	14286	41 2655	-.106	.54	56.37	2	11	14569	-4 4095	-.018	.18	57.48	2
17	14287	53 1832	.056	.56	57.40	2	17	14576	55 1830	-.038	-.63	57.35	2
17	14291	66 927	-.075	.58	56.87	2	11	14581	0 3503	.042	-.56	57.95	2
15	14298	29 2752	.063	1.04	56.42	2	16	14583	40 3006	-.057	.39	56.98	2
11	14314	-2 4094	-.030	-.25	56.90	2	17	14589	52 1961	-.062	-.25	58.42	2
15	14326	35 2762	-.048	-.48	56.41	2	15	14590	29 2816	.084	-.04	57.87	2
16	14329	47 2292	-.021	.92	56.89	2	6	14595	47 2333	-.003	.27	58.25	4
12	14340	6 3149	.016	-1.22	56.94	2	11	14598	3 3173	-.011	.38	58.41	2
17	14345	60 1649	.039	-.07	56.95	2	12	14604	10 2992	.061	.35	57.96	2
12	14349	13 3062	-.055	-.57	56.95	2	8	14608	79 493	-.258	-.20	58.44	2
16	14362	42 2671	-.201	-2.56	57.36	2	8	14619	73 717	-.083	.30	58.44	2
11	14366	0 3455	-.042	.18	58.42	2	15	14621	32 2717	-.068	-.35	56.89	2
16	14369	44 2541	-.089	-.12	57.52	2	15	14649	28 2564	-.020	.03	56.95	2
15	14371	36 2689	-.006	1.77	56.98	2	14	14656	24 3003	-.110	-.65	57.96	2
16	14375	45 2370	-.096	-1.03	58.41	2	14	14672	23 2934	-.029	-.16	56.96	2
11	14376	-2 4111	-.037	.29	57.41	2	12	14673	5 3203	-.002	.13	58.40	2
11	14378	-3 3875	-.038	.21	58.11	3	18	14674	76 606	-.195	.88	57.97	2
17	14379	58 1615	-.119	-.28	58.41	2	17	14675	60 1676	.004	.64	58.41	2
17	14381	62 1452	-.091	-.57	57.43	2	15	14687	34 2787	-.025	-.15	57.42	2
11	14385	3 3128	.007	-.89	57.94	2	15	14698	33 2733	.009	.18	56.96	2
13	14388	16 2885	.034	-.57	58.04	2	13	14700	15 3008	.024	.91	57.35	2
18	14397	83 468	-.342	1.05	57.80	2	17	14710	54 1814	-.085	.03	56.89	2
12	14400	5 3147	-.021	-.13	58.69	4	5	14714	40 3020	-.067	.21	56.96	2
12	14403	7 3102	-.035	.02	58.41	2	11	14716	4 3191	.015	-.45	57.43	2
15	14408	34 2741	-.130	-.23	59.12	3	15	14721	35 2822	-.003	-.49	58.48	2
12	14423	11 2926	.007	-.22	58.90	2	17	14728	56 1892	.009	-.64	58.41	2
15	14431	25 3039	-.161	.40	57.34	2	14	14734	20 3284	-.104	-.99	57.43	2
17	14432	53 1848	-.028	.26	57.40	2	11	14740	1 3246	-.023	-.12	56.95	2
16	14446	48 2369	-.065	.96	57.36	2	15	14745	37 2762	.055	-.91	57.83	2
14	14450	21 2882	-.001	.41	56.40	2	13	14751	17 3041	-.005	1.24	56.96	2
14	14451	24 2977	-.039	-1.39	57.97	2	16	14759	42 2719	-.022	.10	57.71	4
17	14452	67 928	-.031	-.86	57.90	2	15	14767	28 2581	-.066	.50	56.89	2
13	14460	18 3138	-.002	1.11	57.41	2	14	14773	23 2951	-.048	1.15	56.98	2
16	14477	46 2156	-.040	.47	56.95	2	11	14776	-4 4128	-.034	.43	56.96	2
11	14485	4 3140	.021	.10	56.82	2	11	14777	-3 3964	-.048	.58	58.66	4
13	14486	16 2908	-.004	1.25	57.39	2	12	14786	7 3207	-.051	.13	57.49	2
12	14488	9 3169	.033	-.60	57.43	2	7	14792	54 1819	.015	-.41	57.97	2
11	14492	0 3477	-.012	.25	57.94	2	17	14793	51 2115	.027	.38	58.05	2
11	14494	-1 3159	-.040	.57	58.04	2	17	14794	59 1734	.028	-.06	58.49	2
14	14498	22 2946	-.006	.63	56.41	2	13	14799	19 3127	.075	.17	56.98	2
16	14512	48 2380	.012	-.36	57.89	2	15	14802	32 2750	.042	.19	57.49	2
18	14514	81 543	.254	.31	58.88	2	17	14806	66 959	.005	-.31	57.95	2
17	14519	66 944	-.133	.09	57.51	2	15	14814	30 2843	.007	-.53	57.90	2
13	14523	20 3236	-.008	-.87	56.36	2	11	14816	2 3140	-.024	.31	57.95	2
15	14528	38 2747	-.039	.58	56.40	2	15	14831	36 2756	-.168	.45	57.43	2
17	14534	61 1577	-.101	.27	57.43	2	13	14841	19 3135	-.016	1.39	56.89	2
17	14541	64 1117	-.027	.15	57.95	4	11	14851	0 3155	-.027	-.17	57.48	2

OBSERVED - AGK 2							OBSERVED - AGK 2						
Zone	Star	B. D. No.	$\Delta\alpha$	$\Delta\delta$	Epoch	No.	Zone	Star	B. D. No.	$\Delta\alpha$	$\Delta\delta$	Epoch	No.
11	14859	3 3240	-.004	.78	56.96	2	15	15094	37 2821	-.075	-.27	58.99	2
16	14862	46 2199	-.058	.31	56.89	2	11	15095	0 3203	-.017	.37	58.48	2
15	14876	35 2848	-.035	-1.07	56.89	2	4	15099	23 3020	.009	-.25	58.42	2
16	14885	44 2598	-.055	.10	56.50	2	13	15101	17 3125	.014	.51	59.40	4
12	14894	12 3064	-.019	.37	58.48	2	15	15103	40 3074	-.042	.36	57.97	2
17	14898	56 1911	.009	-.17	57.05	2	14	15109	22 3035	.016	-.34	58.01	2
16	14903	41 2740	-.223	.72	56.49	2	12	15115	13 3264	-.022	-.04	57.95	2
11	14907	0 3569	.042	.43	57.88	2	12	15120	10 3102	.006	.56	56.95	2
18	14908	79 510	.125	-.20	57.90	2	17	15125	65 1156	-.024	.40	56.49	2
11	14910	-3 3982	.012	.65	56.95	2	15	15128	32 2820	-.022	-.36	57.06	2
17	14911	53 1883	-.012	.71	58.05	2	17	15134	55 1890	-.002	-.14	57.96	2
12	14912	11 3028	-.033	.18	58.04	2	12	15135	9 3299	.034	-.19	56.89	2
13	14914	15 3040	.021	-.27	57.42	2	16	15137	43 2668	.027	-.14	57.97	2
12	14920	6 3282	-.058	1.33	57.03	2	7	15140	57 1718	-.051	-.83	57.44	2
11	14924	4 3242	-.017	.32	59.14	4	15	15148	33 2805	.054	.98	56.49	2
12	14925	7 3228	-.004	.67	59.00	2	15	15150	30 2911	-.030	-.77	57.51	2
12	14930	9 3259	.009	-.91	58.50	2	12	15159	8 3322	-.021	-.21	56.96	2
15	14938	32 2775	.027	-.29	57.96	2	11	15160	-3 4040	-.047	.61	56.98	2
12	14940	10 3058	-.021	-.27	57.93	2	18	15169	78 573	-.137	.46	57.49	2
13	14941	17 3081	.038	-.07	58.93	2	16	15177	47 2419	-.061	.52	56.49	2
17	14944	52 1994	-.105	-.41	57.42	2	17	15197	54 1856	-.036	.17	57.43	2
16	14950	48 2433	-.102	-.11	57.94	2	16	15202	41 2784	-.101	-.94	56.49	2
15	14956	27 2681	-.049	.13	58.44	2	15	15206	29 2927	-.015	-.35	58.68	4
17	14965	65 1141	-.004	-.14	58.05	2	11	15212	-2 4294	.021	-.80	57.49	2
16	14969	46 2211	.003	-.48	56.96	2	17	15213	51 2161	-.125	-.27	57.42	2
13	14972	18 3237	-.015	.41	57.93	2	18	15214	73 754	-.040	.62	57.43	2
17	14973	58 1669	-.008	.09	58.07	2	13	15217	16 3091	-.032	-.14	56.95	2
15	14975	29 2881	.031	1.07	58.96	2	15	15222	32 2844	-.021	-.10	58.50	2
11	14979	1 3306	-.033	.03	58.02	2	16	15227	45 2487	.023	-.42	58.07	2
14	14981	20 3332	-.074	.11	58.93	2	15	15228	36 2823	-.072	.34	57.59	2
12	14982	9 3273	.016	.04	59.45	3	12	15231	14 3185	.012	.12	58.49	2
15	14988	31 2908	.020	-.82	58.41	2	17	15232	53 1915	-.029	.20	57.99	2
12	14996	6 3296	.006	.82	57.94	2	11	15234	3 3339	-.014	.36	57.94	2
4	15002	24 3060	-.072	-.01	57.42	2	17	15237	67 984	-.153	.57	59.03	2
12	15005	5 3276	.089	.33	56.44	2	15	15242	25 3197	-.023	-.28	58.89	2
13	15022	19 3175	-.007	.67	56.88	2	12	15244	5 3323	.026	-.43	57.51	2
12	15034	12 3097	-.034	-.08	58.97	2	18	15246	71 823	-.086	-.39	57.91	2
13	15035	18 3256	.011	1.00	57.72	4	12	15258	7 3304	-.035	-.94	58.03	2
16	15039	48 2445	-.014	-.35	56.44	2	11	15271	-4 4233	-.022	.72	58.43	4
15	15040	38 2848	-.002	1.71	58.02	2	17	15274	60 1735	-.029	.35	57.03	2
17	15041	51 2141	-.080	.04	57.03	2	17	15275	65 1168	-.054	.01	58.43	4
15	15048	35 2878	-.031	-.20	57.98	2	6	15281	42 2800	-.031	.20	57.05	2
14	15050	21 2997	-.085	-.80	58.03	2	16	15284	44 2659	-.032	-.23	57.49	2
11	15051	3 3298	.017	-.07	57.97	2	12	15286	12 3159	.001	-.04	57.94	2
11	15076	-3 4023	-.051	.91	56.96	2	11	15292	0 3646	-.012	-.39	57.97	2
18	15081	71 812	-.149	.56	57.97	2	16	15296	47 2435	-.001	.05	58.50	2
11	15087	0 3597	.029	.23	57.96	2	15	15308	29 2951	.011	.74	56.89	2
15	15089	32 2810	-.074	.09	58.46	3	15	15319	39 3083	-.033	.74	56.94	2
11	15090	-2 4275	-.046	-.16	58.76	4	12	15322	6 3365	.002	.00	57.03	2
16	15093	40 3072	.018	.30	57.95	2	11	15326	2 3266	.120	.21	59.42	2

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Zone	Star	B. D. No.	$\Delta\alpha$	$\Delta\delta$	Epoch	No.	Zone	Star	B. D. No.	$\Delta\alpha$	$\Delta\delta$	Epoch	No.
16	15333	48 2489	-.080	-.50	57.97	2	18	15683	71 847	-.179	1.02	58.05	2
17	15350	61 1645	-.045	1.08	56.89	2	11	15694	1 3467	-.003	.15	57.49	2
11	15355	5 3353	.017	-.01	56.50	2	17	15697	66 1034	.005	.13	57.48	2
12	15363	14 3205	.020	-.30	57.56	2	15	15699	38 2966	-.027	1.02	57.45	2
13	15374	17 3201	-.060	.82	57.52	2	12	15707	11 3210	-.041	.20	56.50	2
12	15377	15 3141	.014	-.14	56.97	2	12	15710	14 3289	.028	.84	56.96	2
15	15381	30 2956	-.014	.85	56.96	2	13	15712	19 3381	-.021	.16	57.99	2
15	15416	37 2863	.085	-.35	58.12	3	15	15720	31 3062	-.004	.01	56.95	2
16	15420	49 2614	-.007	-.36	56.96	2	17	15724	69 929	-.024	-.06	58.44	4
11	15431	-4 4262	-.034	.21	56.98	2	12	15730	12 3267	.009	-.32	57.43	2
15	15433	27 2787	-.058	-1.02	56.96	2	15	15742	26 3053	.002	-.43	57.97	2
11	15437	-2 4332	.005	-.27	59.84	3	17	15743	68 945	-.031	-.07	57.49	2
11	15448	0 3265	-.029	-.98	58.91	2	12	15753	7 3434	-.023	-.12	56.51	2
14	15449	22 3120	-.018	.23	56.99	2	12	15760	6 3490	-.026	.60	57.40	2
11	15455	4 3396	-.014	.27	57.49	2	15	15764	34 3019	-.090	-.60	57.06	2
13	15462	17 3225	-.018	.15	56.96	2	15	15771	35 3040	-.031	.38	57.13	2
17	15464	61 1652	.004	-.49	57.52	2	15	15773	28 2803	-.009	-.98	56.98	2
17	15472	62 1540	.012	.06	57.49	2	4	15777	21 3189	-.003	.49	57.97	2
12	15479	9 3372	-.001	-.26	56.93	2	18	15784	70 949	-.041	-.33	57.01	2
17	15484	59 1804	-.007	.45	56.74	3	14	15786	23 3162	-.051	-1.48	57.42	2
15	15521	37 2881	-.085	.29	56.46	3	17	15789	50 2449	-.014	.12	56.98	2
16	15540	45 2531	-.006	1.32	57.42	2	12	15793	10 3272	-.027	.49	58.49	2
5	15559	25 3264	.016	-.60	56.98	2	13	15800	18 3445	-.045	.22	56.47	2
11	15561	0 3285	-.014	.06	57.51	2	15	15805	27 2877	-.106	.52	57.06	2
14	15562	24 3184	-.077	.00	57.57	2	11	15806	4 3493	.008	.21	57.43	2
11	15565	-2 4357	-.010	.48	58.04	2	11	15815	-1 3386	.027	.43	57.98	2
11	15570	-3 4105	-.052	.13	57.96	2	14	15830	22 3205	-.030	-.63	57.49	2
18	15574	73 772	.023	.01	57.49	2	16	15831	49 2685	-.154	-.83	57.50	2
12	15583	13 3382	.037	-.06	57.52	2	15	15833	30 3052	-.021	-.45	58.49	2
12	15589	9 3399	-.022	.01	57.95	2	16	15834	42 2909	-.041	-.93	57.49	2
11	15594	1 3440	.024	.92	56.49	2	15	15835	39 3215	-.004	.50	58.57	2
12	15599	11 3188	.065	.65	58.98	2	11	15840	-3 4172	-.038	.37	59.02	2
16	15601	41 2839	-.063	.48	57.42	2	18	15843	75 640	-.167	.82	58.07	2
12	15603	10 3219	-.034	-.23	57.06	2	13	15846	17 3332	-.028	.36	57.57	2
14	15611	22 3157	-.002	.50	56.93	2	11	15865	0 3361	.035	.37	57.49	2
18	15612	77 661	-.167	.30	56.98	2	18	15871	80 555	-.136	.16	57.44	2
15	15613	29 3033	-.011	1.37	57.95	2	15	15873	32 2987	-.069	-.26	57.49	2
16	15619	45 2540	.016	.14	57.49	2	17	15875	67 1036	-.040	-.37	58.50	2
17	15628	59 1823	.046	-1.56	57.58	2	17	15909	56 2024	-.038	.20	57.05	2
11	15629	2 3340	.050	-.25	58.91	2	17	15917	54 1917	-.002	-.18	57.56	2
16	15637	40 3162	.037	.69	57.52	2	15	15918	38 3011	.005	-.03	57.44	2
4	15649	23 3131	-.044	.43	56.95	2	11	15939	-2 4480	-.034	.79	57.42	2
12	15657	7 3400	-.007	-.94	56.50	2	12	15954	14 3360	.013	-.03	58.04	2
15	15658	32 2941	-.076	.23	57.05	2	12	15960	9 3505	.007	-.17	57.81	3
17	15660	52 2067	-.052	-.06	57.58	2	14	15963	23 3207	-.111	-.78	57.10	2
17	15661	64 1204	-.040	.21	57.97	2	17	15976	52 2110	-.002	.06	57.96	2
14	15665	21 3153	-.019	-1.26	57.98	2	16	15977	42 2951	-.014	.55	59.03	2
11	15674	4 3448	.065	.62	58.94	2	12	15980	12 3324	.009	.86	58.06	2
12	15676	10 3246	.025	-.06	58.05	2	17	15986	66 1057	-.027	-.43	58.06	2
16	15682	43 2763	-.106	.45	57.49	2	16	15989	45 2620	.097	.66	57.50	2

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Zone	Star	B. D. No.	$\Delta\alpha$	$\Delta\delta$	Epoch	No.	Zone	Star	B. D. No.	$\Delta\alpha$	$\Delta\delta$	Epoch	No.
12	15995	6 3576	.015	-.05	57.12	2	12	16251	13 3564	-.013	.57	57.58	2
15	15999	32 3010	-.030	-.39	56.88	2	16	16253	40 3314	-.011	-.11	58.03	2
18	16004	85 294	-.279	.19	58.05	2	12	16259	5 3656	.010	.62	57.42	2
16	16021	47 2563	-.073	.53	58.91	2	16	16261	45 2679	.049	.66	58.14	2
11	16028	0 3393	.010	.05	57.14	2	16	16263	42 3030	-.022	.48	57.59	2
12	16030	14 3375	-.006	.40	57.96	2	17	16267	63 1415	.002	-.36	57.58	2
15	16032	38 3045	-.044	.30	57.51	2	15	16271	36 3064	-.003	-1.37	57.57	2
17	16037	54 1925	-.058	-.73	58.05	2	18	16273	74 757	.026	-.18	58.02	2
16	16038	40 3254	-.016	-.78	58.07	2	13	16274	15 3415	-.001	.14	57.85	4
16	16053	49 2716	-.069	.00	57.52	2	15	16277	25 3475	-.043	-.15	57.53	2
17	16059	56 2044	-.023	.26	57.89	2	15	16305	36 3079	-.013	-.37	57.96	2
17	16066	63 1396	.089	-.10	57.01	2	16	16307	48 2668	.033	-.10	57.48	2
11	16070	0 3837	.040	-.84	57.51	2	12	16309	8 3636	.009	-.01	57.49	2
16	16072	41 2955	-.001	-1.21	57.06	2	11	16324	-4 4438	-.055	.50	57.52	2
15	16076	30 3106	-.054	-.10	57.56	2	17	16334	69 973	-.078	.34	57.56	2
15	16077	39 3300	-.030	.59	57.43	2	16	16337	40 3340	.012	1.16	57.06	2
14	16079	20 3642	-.043	-.85	57.52	2	15	16342	31 3239	.065	.88	57.61	2
18	16086	71 864	.041	.93	57.42	2	15	16346	39 3385	-.049	-.45	58.06	2
14	16087	24 3311	.033	-.73	57.12	2	17	16348	52 2184	-.002	-.45	58.59	2
13	16097	17 3418	.014	-.45	58.05	2	12	16350	10 3479	-.009	.93	57.53	2
4	16118	21 3292	.023	-.13	56.96	2	17	16351	55 2054	.080	-.25	59.00	2
12	16120	5 3599	-.046	.56	57.07	2	18	16361	80 577	-.139	-.36	58.02	2
18	16121	82 537	-.058	.14	57.13	2	16	16365	46 2464	-.241	1.92	57.98	2
16	16128	42 2996	-.071	.67	57.52	2	17	16368	61 1741	-.003	.26	58.76	4
15	16129	29 3180	-.036	-1.22	57.06	2	17	16370	66 1100	-.078	-.11	57.60	2
13	16131	15 3354	.005	.04	57.06	2	17	16376	64 1263	-.025	.05	59.04	2
15	16132	37 3008	-.075	-.25	58.49	2	16	16380	42 3065	-.070	1.29	57.04	2
18	16136	79 569	-.226	.14	57.48	2	12	16381	12 3499	-.002	.39	56.50	2
17	16139	64 1242	-.067	.15	58.12	2	16	16390	43 2962	-.024	.43	56.47	2
12	16141	13 3514	.003	.18	57.98	2	5	16392	25 3510	.021	-.77	57.50	2
12	16143	10 3385	.018	-.62	58.54	2	15	16396	38 3157	.007	-1.41	58.06	2
17	16157	54 1940	.037	-.77	58.56	2	13	16398	17 3565	.008	.60	58.04	2
17	16161	62 1596	-.059	-.18	56.49	2	11	16403	-3 4279	-.037	-.05	57.97	2
16	16164	48 2639	-.131	-1.05	58.05	2	12	16407	13 3632	-.009	.89	57.03	2
11	16169	3 3597	-.015	.11	57.06	2	12	16413	9 3699	-.017	-.12	57.50	2
11	16181	-4 4405	-.021	.47	57.52	2	18	16420	75 667	-.043	.36	58.02	2
11	16183	0 3859	-.011	-.28	57.51	2	16	16427	41 3051	-.020	-.08	57.53	2
16	16198	47 2589	-.083	-1.58	56.40	2	15	16432	33 3099	-.006	.19	57.58	2
12	16205	7 3578	.009	.87	57.07	2	15	16433	26 3253	-.018	-.81	57.51	2
15	16211	29 3195	-.024	-.06	56.98	2	13	16434	19 3643	-.025	.55	57.48	2
13	16219	18 3586	-.045	.32	57.51	2	14	16439	24 3416	.013	.39	58.05	2
15	16224	27 2975	-.033	.20	56.50	2	15	16446	30 3206	-.069	.34	57.03	2
18	16225	72 829	.013	.08	58.02	2	17	16459	59 1898	-.050	-.13	58.48	4
18	16227	77 681	-.083	.71	56.96	2	18	16464	70 998	-.022	-.08	57.48	2
17	16231	61 1728	-.105	-.26	57.11	2	12	16469	14 3546	.007	.33	57.52	2
18	16234	86 275	-.873	.47	57.97	2	18	16470	77 696	.034	1.19	58.02	2
11	16240	4 3652	.022	.43	58.12	2	15	16473	39 3428	-.012	.49	57.03	2
15	16244	37 3043	-.066	-.51	56.47	2	15	16478	37 3130	.030	-.29	57.97	2
17	16249	52 2159	-.031	.37	57.51	2	17	16486	57 1874	-.022	.32	57.05	2
11	16250	0 3883	.021	.60	57.06	2	13	16498	15 3483	-.087	.38	58.51	4

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Zone	Star	B.D. No.	$\Delta\alpha$	$\Delta\delta$	Epoch	No.	Zone	Star	B.D. No.	$\Delta\alpha$	$\Delta\delta$	Epoch	No.
14	16501	21 3459	-.036	.22	58.06	2	15	16857	33 3246	-.068	.67	57.03	2
12	16509	13 3667	.000	.24	59.03	2	12	16861	12 3711	-.042	-.10	57.06	2
15	16513	25 3551	-.013	.31	56.94	2	12	16872	7 3894	.027	-.05	57.10	2
16	16528	40 3403	.011	-.10	56.57	2	11	16878	-3 4413	-.004	.29	58.03	2
11	16530	0 3960	.058	.10	57.51	2	15	16883	26 3394	-.036	.48	58.04	2
11	16537	1 3711	.008	.04	58.76	4	16	16898	49 2898	-.058	.46	56.96	2
12	16541	8 3743	.044	-.20	58.15	3	12	16899	5 3987	.024	.28	57.11	2
11	16547	4 3791	.041	.07	57.48	2	13	16901	16 3677	.014	.17	57.52	2
18	16553	76 694	-.018	-.15	58.10	2	17	16908	56 2164	.023	.23	58.12	2
13	16567	15 3511	.011	.59	56.57	2	16	16909	47 2720	-.073	.13	57.56	2
15	16584	27 3053	-.025	.25	58.49	2	15	16911	38 3362	-.014	-.18	58.04	2
15	16587	25 3581	.038	-.72	58.04	2	15	16925	25 3683	-.007	.05	58.03	2
15	16597	36 3202	-.034	.26	57.56	2	11	16930	-1 3613	.013	-.28	57.03	2
13	16600	18 3747	.023	.72	58.03	2	11	16937	2 3751	.010	.88	57.05	2
16	16605	43 3025	.023	.24	58.58	2	17	16947	62 1670	.004	.68	57.53	2
15	16608	33 3156	-.108	-.33	58.04	2	11	16950	1 3851	.003	.68	56.61	2
18	16610	72 852	-.039	-.18	58.05	2	18	16954	88 114	-1.657	.11	58.63	2
12	16611	14 3596	-.097	.32	58.03	2	17	16960	58 1851	-.031	.14	57.57	2
16	16630	46 2519	-.046	-.38	57.01	2	12	16980	8 3950	-.024	-.55	57.10	2
17	16634	59 1908	-.011	.16	56.97	2	18	16984	70 1039	-.108	.06	57.58	2
17	16641	57 1890	-.015	.85	57.04	2	15	16986	37 3315	-.043	.69	56.96	2
12	16646	7 3799	-.001	.21	57.52	2	18	17017	80 604	-.057	-.12	58.54	2
14	16647	24 3489	.048	-.03	58.05	2	16	17019	39 3630	-.052	-.39	57.14	2
17	16661	53 2113	.008	.08	57.08	2	17	17024	54 2080	-.020	-.34	57.06	2
11	16663	0 3993	.013	.00	57.49	2	17	17040	52 2336	.060	.17	58.04	2
18	16674	74 789	-.062	.61	57.50	2	16	17080	46 2627	-.025	.14	57.08	2
14	16681	20 3905	.008	-.36	57.43	2	11	17095	2 3801	.035	-.31	56.67	2
11	16686	-1 3551	.015	.74	59.73	4	16	17097	48 2837	-.012	.89	57.58	2
15	16690	29 3326	-.008	-.47	58.58	2	15	17100	32 3335	-.032	.21	57.05	2
15	16694	31 3344	-.050	.50	58.03	2	17	17102	64 1330	.017	-.24	56.96	2
12	16695	5 3934	.044	-.04	58.50	2	14	17112	22 3613	.046	-.02	57.57	2
16	16709	49 2849	.001	-1.11	57.58	2	16	17113	40 3613	.035	-.58	57.08	2
11	16713	1 3764	.028	-.42	59.03	2	17	17122	58 1873	-.007	-.09	59.02	2
12	16737	11 3599	-.008	.32	57.03	2	12	17124	7 3988	-.018	.15	57.58	2
12	16742	9 3866	-.028	.67	58.70	4	15	17132	29 3506	-.049	.46	58.56	2
8	16744	75 680	.020	-.24	57.06	2	11	17133	-4 4719	.075	.16	58.54	4
15	16745	30 3294	.025	.44	57.03	2	14	17145	21 3695	.016	.40	58.56	2
16	16749	43 3072	.004	.65	58.06	2	17	17147	66 1172	.079	.07	57.11	2
12	16758	6 3943	.011	.21	57.59	2	11	17153	0 3679	.043	.15	57.58	2
15	16760	28 3086	-.132	.31	59.53	3	12	17154	8 4007	.001	-.21	57.12	2
17	16763	65 1293	.050	-.18	58.04	2	15	17158	34 3468	.038	1.16	58.14	2
14	16772	20 3941	-.006	-.31	59.75	4	16	17169	41 3271	.031	.08	57.61	2
15	16775	32 3220	.047	.06	56.94	2	17	17172	69 1036	-.029	1.06	58.57	2
6	16797	45 2779	-.036	-.65	57.50	2	16	17183	49 2965	-.013	-.09	57.87	4
17	16804	58 1837	-.021	.39	58.56	2	15	17184	36 3466	-.023	.26	58.56	2
16	16811	42 3174	.005	1.91	57.03	2	17	17189	52 2376	.002	.56	58.60	2
11	16814	-1 3582	.034	.27	59.68	5	18	17190	73 854	.044	.64	58.05	2
17	16821	51 2438	-.023	.57	58.05	2	13	17192	14 3849	.019	.37	57.59	2
15	16850	35 3388	-.005	-.41	56.97	2	7	17202	67 1132	-.036	.72	57.11	2
12	16853	9 3911	.015	.34	59.03	2	17	17204	65 1334	-.014	.26	58.14	2

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Zone	Star	B.D. No.	$\Delta\alpha$	$\Delta\delta$	Epoch	No.	Zone	Star	B.D. No.	$\Delta\alpha$	$\Delta\delta$	Epoch	No.
12	17207	12 3867	-.004	.33	57.59	2	17	17628	64 1377	-.138	.25	57.07	2
14	17209	20 4095	.047	.04	58.12	2	11	17632	-3 4696	.010	1.37	57.15	2
11	17221	-1 3702	.037	-1.09	57.60	2	8	17633	70 1085	.025	.08	58.05	2
17	17223	63 1504	.032	.35	58.14	2	17	17650	68 1078	-.090	-.50	58.56	2
15	17233	33 3403	.033	-.44	59.47	2	17	17656	55 2257	.038	.39	57.66	2
17	17240	58 1891	-.018	.91	57.56	2	15	17659	24 3872	.025	.10	57.51	2
18	17242	84 437	-.705	.05	58.02	2	15	17660	35 3791	-.011	-.54	57.06	2
17	17248	49 2976	-.030	.27	57.12	2	15	17665	37 3600	.043	.18	57.12	2
12	17254	5 4115	.057	-.08	58.12	2	16	17669	45 2971	-.080	-.74	58.06	2
16	17268	43 3215	-.064	.54	57.06	2	17	17681	58 1981	.025	-.17	58.06	2
11	17287	3 3990	.009	.17	57.61	2	15	17686	28 3478	-.005	-.54	58.59	2
15	17289	39 3740	-.051	.49	57.66	2	12	17688	9 4264	.008	.98	58.13	2
17	17304	62 1704	.017	-.67	57.56	2	11	17701	-4 4926	-.032	1.38	57.15	2
16	17307	48 2890	-.031	.32	57.11	2	13	17708	14 4053	.009	.26	57.61	2
13	17308	15 3796	.011	1.20	58.06	2	12	17711	6 4323	.025	.64	57.66	2
12	17310	11 3826	.092	.69	58.49	2	17	17713	61 1912	.053	-.01	59.02	2
17	17313	56 2238	.055	.36	58.57	2	18	17714	72 911	-.013	.24	57.06	2
15	17324	28 3319	-.159	-1.30	58.60	2	15	17718	32 3587	.033	.70	58.06	2
16	17338	43 3231	-.036	-.98	57.61	2	16	17727	44 3265	-.032	-.07	57.11	2
17	17339	60 1943	-.109	.55	59.02	2	16	17731	48 2959	.003	.06	57.97	2
15	17350	35 3614	-.034	-.02	58.05	2	11	17743	-2 5136	.017	.15	57.69	2
18	17357	72 891	-.067	.04	58.04	2	17	17751	50 2904	-.060	1.16	58.04	2
11	17369	1 4004	.018	-.35	58.12	2	15	17752	25 4006	.035	-.11	57.60	2
18	17374	77 730	-.167	-.60	58.06	2	17	17757	68 1084	.031	.33	58.80	4
15	17378	32 3441	.010	.07	57.15	2	17	17762	65 1409	-.008	-.71	58.56	2
17	17383	52 2431	-.018	-.71	59.03	2	12	17769	11 4035	-.017	.50	59.03	2
16	17389	47 2837	-.056	.68	58.55	2	15	17773	35 3850	.002	.03	58.15	2
18	17405	79 629	-.191	.16	58.58	2	16	17787	48 2979	-.002	-.37	57.15	2
14	17416	20 4167	-.004	.01	57.67	2	13	17793	15 3985	-.018	.70	58.14	2
15	17422	31 3631	.018	-.07	57.65	2	18	17801	78 694	-.097	.13	58.13	2
12	17433	13 4039	.027	.44	58.06	2	17	17808	60 2046	-.034	.51	57.06	2
17	17453	63 1534	-.036	-.34	58.04	2	18	17812	82 598	-.068	-.19	58.06	2
17	17461	69 1052	-.288	.35	57.15	2	17	17815	62 1769	-.021	.07	57.59	2
14	17474	24 3780	.038	-.51	57.52	2	11	17816	-1 3864	-.031	.41	58.94	2
18	17480	74 828	.137	.35	57.58	2	13	17818	16 4073	.069	.44	57.61	2
13	17486	19 4066	.049	.72	57.67	2	17	17831	53 2328	-.025	-.11	57.67	2
12	17487	14 3965	-.030	1.00	59.03	2	14	17832	21 3987	-.053	-.15	58.58	2
17	17491	62 1730	.066	.94	57.59	2	11	17839	-3 4757	.078	-.24	58.14	2
16	17498	44 3179	.035	-.57	57.60	2	15	17850	36 3794	.014	-.19	58.14	2
11	17505	-4 4855	-.005	.35	57.60	2	17	17851	55 2291	-.096	-.71	58.05	2
15	17524	27 3446	.028	.45	57.60	2	6	17853	45 3022	-.060	.10	58.05	2
12	17529	12 3995	.019	.06	58.07	2	15	17855	25 4050	-.005	-1.72	57.03	2
11	17540	0 4266	.034	-.22	58.50	2	15	17877	34 3832	.001	.02	57.59	2
16	17542	42 3403	.005	-.05	57.12	2	18	17888	69 1085	.034	1.45	57.58	2
11	17545	2 3950	.028	-.08	58.06	2	15	17891	29 3857	-.017	-.93	58.05	2
12	17552	10 4006	.017	.36	57.66	2	16	17895	43 3453	-.032	-.83	56.57	2
17	17554	58 1948	-.031	-.43	57.11	2	16	17897	42 3563	-.025	-.17	58.55	4
15	17570	34 3655	.032	-.96	57.06	2	13	17900	17 4197	.069	-.06	58.15	2
17	17593	50 2844	-.048	-.05	57.11	2	11	17902	-3 4771	-.019	-.54	57.70	2
11	17627	4 4210	.005	1.51	57.11	2	14	17903	20 4389	-.023	-.14	58.14	2

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Zone	Star	B.D. No.	$\Delta\alpha$	$\Delta\delta$	Epoch	No.	Zone	Star	B.D. No.	$\Delta\alpha$	$\Delta\delta$	Epoch	No.
15	17906	34 3846	-.013	1.30	57.73	2	14	18333	24 4145	.040	-.61	57.16	2
11	17907	-1 3885	-.031	.07	58.15	2	17	18336	67 1252	-.099	.89	58.04	2
18	17909	71 991	-.069	-.15	58.06	2	11	18338	-1 3988	.042	-.23	58.04	2
17	17911	61 1961	.017	.28	59.04	2	16	18358	40 4211	.006	.80	57.67	2
13	17915	18 4366	-.059	.59	58.59	2	13	18365	15 4185	.025	.39	58.84	4
15	17926	37 3744	-.029	2.12	57.56	2	11	18368	1 4309	.077	-.92	58.14	2
5	17945	25 4093	-.031	-.08	57.61	2	12	18383	9 4570	.031	-.09	57.95	3
18	17967	85 340	-.500	.57	58.59	2	11	18390	0 4536	.085	.42	59.57	4
18	17972	87 187	1.641	.17	58.18	2	12	18398	14 4343	-.012	.81	58.50	2
13	17973	16 4145	-.037	-.65	56.57	2	15	18402	38 4149	.040	-.67	58.64	4
18	17990	73 898	-.129	-.19	57.58	2	12	18409	10 4325	.051	-.40	58.22	2
4	17991	22 3936	.039	.31	57.61	2	4	18410	24 4165	-.010	-.33	58.25	3
12	17996	9 4414	.010	.23	57.11	2	12	18416	6 4580	.018	.24	57.56	2
16	18009	45 3066	-.038	-1.78	57.10	2	16	18417	49 3317	-.005	.34	57.60	2
6	18025	42 3613	.018	-.06	57.95	3	11	18429	1 4327	.017	1.16	58.06	2
12	18040	8 4369	.031	-.10	57.60	2	11	18436	-1 4015	-.008	.27	58.05	2
12	18043	5 4441	.011	.55	58.34	4	14	18437	21 4285	-.019	-.78	57.69	2
16	18059	46 2870	.003	.83	57.67	2	15	18448	39 4254	-.043	.00	58.12	2
12	18060	10 4205	-.035	-.28	58.12	2	15	18453	34 4098	.057	.26	58.05	2
13	18064	14 4223	.023	.69	58.13	2	15	18459	25 4308	-.027	-.26	58.14	2
13	18065	19 4322	-.011	.51	57.68	2	15	18460	32 3886	-.029	-.73	58.89	4
13	18074	17 4257	-.034	.18	58.59	2	17	18462	63 1640	.060	.24	57.59	2
15	18075	27 3652	-.028	.21	58.15	2	15	18480	27 3820	-.042	-1.02	57.10	2
11	18079	0 3949	.018	-.08	58.14	2	17	18482	60 2145	-.026	.10	58.89	3
14	18089	20 4488	.011	-.17	58.10	2	17	18505	58 2156	.083	-.09	57.12	2
11	18091	2 4121	.090	.34	58.14	2	12	18514	11 4355	.013	.64	57.21	2
16	18113	43 3541	-.014	.32	57.67	2	15	18519	37 4026	.030	-.41	57.14	2
17	18120	56 2382	-.063	.78	58.59	2	12	18520	9 4616	.013	-.50	57.59	2
18	18126	74 853	-.050	.11	58.13	2	6	18539	43 3695	.039	-.10	57.60	2
18	18140	72 945	-.032	.23	57.67	2	18	18541	72 962	-.039	-.02	57.09	2
12	18149	9 4476	.025	.67	57.57	2	15	18550	26 3970	.038	-1.60	58.58	2
17	18163	61 1996	-.087	.53	57.14	2	15	18552	32 3913	.013	.66	57.05	2
11	18167	-4 5090	-.038	.12	57.66	2	15	18570	31 4210	.022	-1.21	57.24	2
18	18182	77 770	-.173	-.42	57.12	2	14	18575	22 4176	.007	-.02	57.61	2
15	18197	33 3864	.008	-.95	58.05	2	15	18578	30 4169	.010	-.66	56.61	2
14	18201	21 4167	.070	.93	57.06	2	13	18593	15 4256	.007	-.07	58.14	2
17	18214	51 2848	-.028	.30	57.58	3	17	18609	59 2285	.019	.18	58.60	2
4	18218	21 4179	.071	-.55	57.05	2	15	18610	28 3888	.032	-2.13	57.60	2
11	18237	-1 3971	.072	-.30	58.05	2	11	18613	0 4589	.011	.36	57.22	2
15	18240	33 3885	-.078	-.33	57.59	2	11	18621	4 4552	.048	-.26	58.21	2
11	18247	-1 3976	.041	-1.27	58.13	2	16	18624	41 3897	-.054	-.03	57.66	2
15	18255	25 4226	-.020	-.65	57.56	2	11	18636	1 4374	.061	.55	57.61	2
12	18271	14 4293	.221	.96	57.56	2	12	18641	11 4397	.010	.00	57.14	2
18	18277	75 739	-.047	.51	57.63	3	17	18646	50 3209	-.028	.06	57.20	2
17	18278	60 2125	-.022	.26	58.04	2	14	18669	22 4223	.050	-.62	57.59	2
11	18280	1 4289	.076	.08	57.59	2	11	18683	0 4121	.005	.38	58.13	2
17	18291	53 2405	.043	-.21	57.10	2	11	18690	0 4610	.062	.43	57.60	2
12	18319	9 4546	.080	.22	57.59	2	12	18702	10 4403	.007	-.10	57.05	2
14	18321	21 4225	.050	-1.28	58.58	2	17	18714	53 2514	-.077	.00	58.87	4
11	18328	-4 5153	-.028	.19	57.66	2	14	18719	19 4564	-.042	-1.20	57.12	2

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Zone	Star	B.D. No.	$\Delta\alpha$	$\Delta\delta$	Epoch	No.	Zone	Star	B.D. No.	$\Delta\alpha$	$\Delta\delta$	Epoch	No.
11	18720	2 4275	.028	.48	57.14	2	12	19032	10 4500	.003	-.42	57.59	2
17	18731	69 1136	-.013	.95	57.12	2	12	19044	11 4528	.020	.20	57.67	2
17	18738	59 2296	.019	-.35	56.65	2	11	19047	-4 5404	.056	-.18	57.70	2
11	18752	-3 5076	-.060	-.48	58.58	2	18	19058	74 912	-.132	.25	57.20	2
14	18754	22 4248	-.044	-.97	58.88	4	13	19062	17 4546	-.045	-.24	57.23	2
15	18762	32 3999	-.021	-.62	57.20	2	13	19067	15 4388	.034	-.11	57.68	2
12	18769	5 4659	-.005	.17	58.91	4	17	19078	67 1303	-.092	.29	57.67	2
17	18774	50 3236	.014	.13	58.60	2	12	19085	12 4600	.075	.50	58.58	2
16	18776	40 4373	-.011	.36	58.13	2	16	19087	49 3501	-.007	-.09	58.21	2
11	18782	-2 5421	.002	-1.97	57.59	2	11	19088	-2 5507	-.014	.69	57.61	2
17	18785	67 1279	-.037	-.32	57.09	2	12	19089	5 4759	.034	1.08	58.22	2
14	18802	24 4299	.007	.24	57.66	2	15	19097	36 4520	-.032	-.09	57.67	2
11	18803	-3 5092	.005	-.34	58.05	2	14	19109	20 4894	-.169	.54	58.15	2
18	18809	85 359	-.110	.40	57.59	2	18	19115	81 735	-.613	.10	57.57	2
11	18816	0 4148	.052	-.21	57.15	2	6	19116	41 4109	-.028	-.09	57.14	2
17	18819	51 2982	.000	-.37	58.05	2	4	19122	23 4296	.030	-1.13	57.16	2
18	18821	73 922	-.051	1.52	57.56	2	17	19124	58 2255	-.078	-.25	57.68	2
15	18823	36 4375	.026	.60	56.69	2	13	19126	19 4692	.005	.44	57.20	2
13	18825	17 4492	-.006	.11	58.07	3	12	19128	7 4671	-.015	-.13	58.14	2
16	18828	49 3440	.120	.96	58.57	2	17	19134	63 1720	-.032	.17	58.12	2
15	18840	28 3970	.060	.05	58.60	2	15	19139	38 4472	.070	.26	58.93	3
11	18859	2 4296	.055	.53	56.70	2	12	19148	13 4694	.010	-.78	58.13	2
18	18864	70 1158	.055	.19	57.66	2	12	19164	9 4805	.009	1.25	57.64	3
11	18869	-4 5355	.066	-.53	57.60	2	16	19171	45 3531	-.024	.12	57.24	2
16	18870	41 3993	-.028	1.15	58.13	2	17	19172	54 2536	-.159	.84	57.60	2
13	18877	16 4454	-.003	.43	58.13	2	16	19185	42 4098	.019	-.93	57.24	2
16	18886	46 3174	-.084	.46	58.15	2	18	19190	75 788	-.048	.34	57.08	2
15	18890	27 3970	-.150	-.78	57.69	2	17	19192	55 2587	.010	-.19	58.07	2
15	18892	25 4463	.077	-.36	56.61	2	14	19202	23 4317	-.005	.41	57.66	2
12	18903	8 4616	.023	-.02	58.93	4	16	19217	41 4153	-.048	.41	59.19	2
17	18914	54 2476	.006	-.91	58.13	2	15	19232	38 4509	-.048	-.17	57.66	2
12	18917	12 4553	.029	.16	57.60	2	11	19240	-2 5551	.025	.05	57.20	2
15	18934	38 4362	-.026	.18	57.15	2	15	19247	29 4426	.021	.00	58.11	2
15	18951	36 4447	-.103	-.41	58.15	2	14	19258	22 4411	-.078	.03	57.61	2
15	18953	25 4477	.034	.27	57.67	2	18	19260	77 823	.044	.78	58.13	2
12	18962	8 4627	.031	-.52	57.15	2	16	19270	49 3544	.030	-.14	57.68	2
14	18964	22 4331	-.043	.43	58.05	2	18	19276	72 991	.010	.02	58.20	2
15	18971	35 4431	.047	.04	57.15	2	17	19285	56 2590	-.109	-.16	57.12	2
15	18974	39 4479	-.047	-1.04	57.59	2	11	19294	0 4238	.007	.61	58.39	4
15	18976	32 4088	-.083	.47	58.22	2	15	19295	26 4197	.032	-.24	57.65	2
11	18980	-1 4123	-.001	.37	57.68	2	15	19313	38 4539	-.034	.39	58.13	2
17	18981	63 1703	-.071	-.57	57.17	2	15	19323	30 4479	.018	-.60	57.60	2
15	18986	27 4007	-.014	-1.28	59.19	2	12	19325	5 4824	.048	-.06	57.15	2
12	18989	5 4733	.011	.61	58.14	2	12	19348	14 4647	.114	.02	58.13	2
11	18993	-3 5155	-.020	.83	58.21	2	14	19349	21 4587	.014	-.09	57.60	2
11	19002	4 4631	.052	.09	57.15	2	17	19351	50 3382	.103	-.54	57.24	2
12	19008	13 4647	-.007	-.01	58.65	2	11	19361	-4 5503	-.076	-.06	58.65	2
14	19009	21 4501	-.002	.22	57.66	2	12	19362	13 4751	-.025	-.19	57.73	2
12	19014	7 4650	.045	-.08	57.68	2	15	19364	27 4122	.012	.10	58.92	4
11	19019	0 4189	.064	.26	57.60	2	15	19373	35 4600	-.046	.02	57.21	2

OBSERVED - AGK 2							OBSERVED - AGK 2						
Zone	Star	B.D. No.	$\Delta\alpha$	$\Delta\delta$	Epoch	No.	Zone	Star	B.D. No.	$\Delta\alpha$	$\Delta\delta$	Epoch	No.
16	19374	44 3892	-.027	.21	57.58	2	17	19699	64 1613	.013	.26	56.69	2
11	19376	1 4518	.080	.41	58.89	4	11	19717	-1 4236	.035	-1.12	56.66	2
17	19381	63 1759	.000	-.04	57.24	2	18	19750	73 957	-.060	1.58	57.11	2
13	19388	16 4575	.025	1.26	58.15	2	15	19754	29 4573	-.009	-.07	56.69	2
13	19402	18 4837	.052	.96	57.66	2	15	19756	31 4617	-.036	.10	56.63	2
16	19406	46 3407	.035	.48	57.09	2	14	19757	20 5074	-.082	.01	57.66	2
15	19410	31 4529	-.016	.42	57.21	2	11	19761	-2 5689	-.012	-.06	57.23	2
14	19412	20 4991	.012	-1.20	58.13	2	17	19765	61 2243	-.016	.68	57.67	2
18	19414	70 1192	-.066	-.04	58.12	2	12	19770	5 4947	.053	.35	57.23	2
15	19415	32 4232	-.125	-.32	57.70	2	12	19771	6 4957	.092	.99	57.98	3
12	19417	8 4720	.016	-.40	57.24	2	11	19774	-3 5375	-.062	-.50	58.19	2
12	19434	10 4608	-.078	-.10	57.66	3	14	19800	24 4537	.075	-.83	56.69	2
14	19439	23 4381	-.068	-.53	57.58	2	15	19804	38 4689	-.037	.85	57.21	2
17	19443	68 1244	.019	-.35	58.57	2	11	19806	3 4665	-.003	-.41	57.90	4
16	19449	42 4195	.041	.09	57.59	2	11	19810	0 4310	.050	.54	58.20	2
11	19453	-3 5296	-.005	-.21	57.70	2	11	19823	0 4829	.012	.26	59.00	3
11	19455	0 4776	.061	.37	57.21	2	17	19825	67 1405	.030	.51	57.11	2
14	19467	21 4614	.030	.66	57.73	2	14	19832	20 5090	.018	1.25	56.69	2
11	19477	3 4613	.017	-.04	58.65	2	17	19849	59 2477	.016	.19	57.20	2
13	19483	18 4861	-.013	.26	57.75	2	17	19875	54 2702	-.034	.47	58.58	2
18	19487	73 945	-.136	.74	58.62	3	11	19881	0 4322	.090	.21	57.25	2
7	19496	69 1197	-.131	.00	58.15	2	16	19888	41 4420	.062	.84	57.24	2
16	19498	45 3680	-.054	.74	57.08	2	17	19902	56 2736	.023	.14	58.20	2
18	19501	75 801	-.054	.27	58.59	2	13	19906	17 4714	.041	.61	57.66	2
17	19507	57 2402	.108	-.36	59.09	2	18	19909	79 728	-.134	-.24	57.19	2
13	19508	16 4607	.042	-.61	58.65	2	15	19916	35 4746	-.051	.34	58.30	3
16	19510	41 4277	.043	.30	58.67	2	14	19917	20 5106	-.036	-.52	58.12	2
18	19513	80 706	-.061	.04	58.60	2	17	19918	66 1490	.014	.85	57.67	2
12	19514	7 4752	-.005	-.42	58.65	2	13	19932	15 4604	-.022	.14	57.25	2
11	19516	4 4753	-.020	1.13	58.14	2	15	19939	31 4668	-.014	.29	57.58	2
14	19542	22 4493	.020	-.34	57.17	2	17	19941	50 3637	-.053	-.02	57.11	2
11	19547	-1 4212	.043	.72	59.14	4	11	19949	4 4837	.037	.76	58.13	2
15	19548	31 4562	-.105	-.91	57.73	2	16	19963	49 3805	-.229	-1.17	57.67	2
12	19550	13 4797	.022	-.14	57.24	2	12	19968	9 5019	-.033	.85	58.26	2
16	19555	47 3584	-.011	.50	58.12	2	12	19969	7 4842	-.010	-.56	58.30	3
17	19560	50 3465	.005	.61	58.60	2	16	19973	41 4456	-.047	-.39	58.58	2
12	19562	12 4705	.033	-.28	58.59	2	13	19978	14 4772	.032	-.42	56.70	2
18	19570	77 836	-.136	.04	58.20	2	16	19989	46 3661	-.065	.26	58.33	2
15	19576	35 4664	-.006	-.78	58.14	2	12	19992	10 4731	.054	.41	57.75	2
11	19586	3 4630	.072	-.06	58.13	2	14	20003	22 4618	.032	-.18	58.66	2
12	19593	8 4760	-.028	.18	58.15	2	18	20010	72 1029	.029	.14	56.66	2
11	19597	-4 5570	-.071	-.40	59.06	2	16	20023	43 4178	-.056	.05	58.80	2
17	19606	68 1258	.072	.39	57.73	2	11	20025	-4 5663	-.125	-.15	58.61	2
15	19613	30 4558	.063	.29	58.13	2	13	20038	16 4724	-.029	.25	58.10	2
17	19619	53 2740	.089	1.64	58.12	2	14	20045	21 4745	.004	.64	58.20	2
12	19631	11 4695	.037	-.39	56.69	2	17	20047	66 1503	.032	-.16	57.67	2
16	19641	45 3740	-.054	.43	57.68	2	15	20061	34 4674	-.073	-.33	58.13	2
17	19648	49 3692	.008	-.21	57.24	2	12	20062	9 5040	.016	.40	58.31	2
11	19686	0 4807	.054	-.19	58.69	3	15	20064	31 4689	.041	1.09	58.15	2
11	19689	2 4457	.103	.38	56.66	2	12	20068	10 4744	.002	-.31	58.28	2

OBSERVED - AGK 2							OBSERVED - AGK 2						
Zone	Star	B.D. No.	$\Delta\alpha$	$\Delta\delta$	Epoch	No.	Zone	Star	B.D. No.	$\Delta\alpha$	$\Delta\delta$	Epoch	No.
17	20072	62 2074	.106	.54	57.14	2	18	20369	81 788	-.205	.41	57.58	2
12	20075	12 4820	-.004	.60	58.20	2	11	20373	-1 4346	.054	.14	57.24	2
17	20082	53 2874	-.042	.49	57.12	2	12	20376	10 4815	-.007	.06	58.59	2
11	20085	-1 4294	.035	.27	57.21	2	15	20380	26 4499	-.007	.42	58.21	2
11	20102	0 4876	.045	.59	57.70	2	15	20381	37 4686	-.026	.98	58.30	3
17	20107	64 1665	.022	.05	58.21	2	18	20387	73 994	.030	.40	57.67	2
11	20109	2 4508	.058	.26	58.13	2	14	20389	21 4828	-.049	-.88	58.19	2
14	20112	24 4593	-.019	-.18	59.06	2	11	20408	0 4926	.063	1.41	57.68	2
16	20117	46 3711	-.030	-.40	58.14	2	12	20428	7 4932	-.003	.06	58.59	2
16	20120	47 3809	.043	.11	58.15	2	16	20438	41 4618	-.008	-1.18	57.20	2
11	20126	-3 5452	-.017	.02	57.21	2	12	20442	12 4894	.047	-.72	57.69	2
12	20129	4 4860	-.005	.76	58.70	4	4	20443	19 5012	.001	.54	57.67	2
16	20134	44 4147	.011	.53	58.27	2	15	20448	24 4673	.047	-.28	57.75	2
16	20137	45 3958	.017	-1.04	58.35	2	17	20462	65 1817	-.018	.19	57.12	2
18	20141	75 832	-.097	.73	59.24	2	15	20478	39 4953	-.021	-.17	57.20	2
11	20148	3 4716	-.065	.09	59.25	2	11	20480	-3 5521	.012	.78	57.10	3
13	20149	17 4758	.022	1.36	58.66	2	17	20486	49 3959	-.105	-.23	58.22	2
12	20152	7 4883	-.011	-.06	59.26	2	15	20488	26 4524	-.021	-.21	57.76	2
13	20154	14 4811	.003	.23	57.68	2	11	20495	1 4662	.013	-.20	57.24	2
15	20157	38 4787	-.056	.24	58.30	3	11	20500	0 4432	.001	-.52	56.70	2
14	20169	20 5180	-.041	.38	58.60	2	11	20502	-1 4355	.042	-1.00	58.89	4
11	20170	0 4892	.002	.02	57.66	2	14	20504	21 4850	.029	.33	58.60	2
7	20182	65 1780	.074	.49	58.15	2	12	20509	10 4844	.056	-.03	57.75	2
14	20186	24 4608	.002	-.09	56.70	2	12	20512	6 5083	-.042	-.75	57.66	2
16	20192	42 4441	.002	1.19	57.75	2	18	20520	84 516	.388	.07	57.73	2
12	20194	8 4892	.067	-.71	58.26	2	18	20521	78 813	-.008	-.05	57.66	2
12	20201	12 4843	.002	.32	58.66	2	13	20529	18 5069	.041	-.31	58.30	2
17	20214	57 2562	.012	-.31	58.76	2	18	20544	71 1173	.008	.55	57.20	2
15	20217	30 4744	-.050	-.29	57.69	2	15	20548	25 4848	-.021	-.40	57.24	2
12	20219	9 5068	.032	.89	57.60	2	14	20550	23 4640	.016	-.43	58.01	3
12	20225	4 4880	.016	.68	58.22	2	13	20552	16 4842	.056	.60	58.22	2
16	20240	47 3856	.024	1.00	58.43	4	15	20553	31 4816	-.002	1.09	57.67	2
11	20241	1 4634	-.005	-.52	57.25	2	15	20555	36 4970	-.055	-.33	58.59	2
16	20256	43 4255	.045	.55	57.59	2	15	20556	38 4903	.091	.53	58.66	2
17	20264	67 1454	.047	.43	58.73	2	11	20569	-1 4364	.102	.82	57.68	2
14	20270	20 5195	-.006	1.16	58.14	2	17	20571	49 4003	-.050	.06	58.35	2
11	20273	-3 5482	-.044	.86	58.59	2	15	20573	26 4539	.010	-1.23	58.30	2
11	20280	-1 4336	-.007	.54	57.69	2	16	20581	40 4958	-.033	-.52	58.30	3
15	20284	33 4556	.001	.09	57.68	2	16	20584	43 4359	-.008	-.08	57.75	2
15	20291	30 4761	-.025	.33	56.70	2	15	20585	24 4694	-.061	-.90	58.03	3
18	20298	86 335	-.609	-.12	57.67	2	18	20591	73 1001	.127	-.66	58.13	2
12	20315	11 4859	-.014	.35	58.92	4	15	20594	34 4817	-.128	-1.29	57.68	2
12	20316	9 5090	.016	.19	56.67	2	16	20596	47 4007	-.021	.01	57.24	2
12	20322	7 4913	-.002	.20	57.69	2	17	20603	54 2895	-.065	1.03	57.67	2
11	20323	0 4911	.085	-.25	57.68	2	11	20606	0 4955	.036	-.14	58.22	2
11	20333	4 4896	.034	.29	58.29	3	12	20612	13 5041	-.005	.10	58.20	2
13	20338	15 4695	.030	-.10	58.21	2	16	20613	44 4307	.070	.72	57.66	2
15	20344	39 4916	-.114	.70	57.60	2	11	20615	-3 5553	-.038	.00	57.20	2
14	20356	20 5217	.026	1.38	58.20	2	18	20620	75 867	.020	.16	58.70	4
12	20362	12 4880	-.009	.46	57.66	2	15	20626	28 4506	-.009	-.31	58.22	2

OBSERVED - AGK 2							OBSERVED - AGK 2						
Zone	Star	B. D. No.	$\Delta\alpha$	$\Delta\delta$	Epoch	No.	Zone	Star	B. D. No.	$\Delta\alpha$	$\Delta\delta$	Epoch	No.
12	20630	6 5107	-.002	.65	58.76	2	15	20955	34 4916	.099	-.54	58.75	2
17	20631	63 1917	-.160	.01	57.76	3	14	20964	22 4829	.038	.65	57.68	2
15	20635	26 4555	.026	-.21	58.22	2	12	20965	6 5153	.020	-.25	58.20	2
16	20638	41 4668	.015	.37	58.22	2	17	20966	55 2956	.015	-.61	57.28	2
17	20646	52 3360	.025	.33	58.13	2	13	20968	14 4990	.048	-.15	58.72	2
12	20657	5 5128	.002	.37	57.67	2	15	20973	25 4934	-.149	.60	58.22	2
13	20660	16 4865	.004	.55	58.15	2	17	20981	52 3446	-.044	.28	58.31	3
12	20672	8 4993	-.009	-.63	56.70	2	12	20984	8 5061	-.004	.58	58.32	2
7	20675	68 1353	-.183	.26	57.59	2	17	20991	54 2975	-.027	1.26	58.21	2
15	20677	37 4765	.081	1.82	58.35	3	18	20996	79 781	.144	-.01	58.68	2
13	20684	17 4868	.041	-.93	58.70	4	16	21001	43 4462	-.057	.46	57.67	2
17	20692	58 2547	.106	-.41	57.73	2	15	21002	29 4930	-.013	-.05	58.24	2
15	20694	29 4863	-.007	-.50	57.29	2	15	21003	36 5069	-.011	-.62	58.86	2
6	20704	40 5001	-.023	.44	58.25	2	11	21013	-3 5644	-.008	-.73	58.74	2
15	20712	26 4569	.003	-1.26	57.25	2	12	21015	5 5176	.033	-.16	57.74	2
12	20717	7 4980	.059	.29	57.74	4	14	21031	22 4846	.010	.27	58.15	2
15	20720	25 4885	-.091	.12	58.68	2	14	21038	23 4752	.062	-.82	58.22	2
13	20721	17 4874	.001	-.38	58.67	3	15	21039	34 4938	.042	-.30	58.15	2
11	20723	1 4687	.087	.97	58.15	2	16	21041	44 4430	.064	-.32	57.68	2
17	20725	62 2173	-.065	-.21	58.18	2	12	21056	8 5072	.081	.16	56.76	2
14	20729	23 4683	.000	.42	58.22	2	16	21062	48 4082	-.006	-.30	57.22	2
4	20746	20 5285	.056	.57	57.22	2	17	21063	58 2607	.031	-.32	58.23	2
16	20748	44 4342	-.014	.09	57.22	2	11	21099	-1 4456	.056	-.05	58.15	3
13	20751	16 4884	-.006	-.09	58.70	4	17	21116	66 1619	.059	.19	58.07	3
11	20757	-3 5584	.021	.11	57.25	2	6	21126	46 4089	-.002	-.83	58.76	4
15	20764	31 4867	.097	.08	57.75	2	12	21130	6 5174	.003	-.51	57.70	2
12	20767	5 5146	.023	-.36	59.10	5	14	21138	20 5357	-.018	-.12	58.48	4
11	20773	0 4483	.016	.76	57.22	2	15	21141	34 4966	.024	-.08	58.28	2
11	20777	1 4695	.058	1.17	58.13	2	15	21142	37 4872	-.021	.61	57.68	2
11	20778	0 4978	-.016	.20	57.73	2	17	21147	55 2990	.003	59.44	57.75	2
17	20780	52 3391	.032	.43	57.24	2	3	21150	18 5180	.020	.24	58.69	2
17	20781	66 1596	.130	.40	58.29	2	15	21151	36 5087	.047	-.24	58.85	2
18	20795	71 1190	-.049	-.11	58.72	3	17	21154	68 1384	-.067	-.19	58.72	3
11	20801	-1 4409	.076	.17	58.35	2	17	21163	64 1835	.001	.01	58.74	2
15	20829	38 4965	-.032	.72	57.22	2	12	21171	7 5066	.026	-.12	58.68	2
17	20831	49 4078	-.038	-.05	57.13	2	17	21174	53 3207	-.054	.59	58.22	2
11	20840	0 4984	.053	-.04	57.39	3	13	21175	16 4959	-.002	.36	58.35	2
11	20844	3 4847	.051	-.20	58.68	2	17	21177	60 2598	.024	-.11	58.30	2
12	20857	8 5039	.053	-.05	57.24	2	11	21188	4 5036	.037	.27	57.74	2
17	20867	58 2572	.056	.25	58.15	2	13	21190	17 4957	-.028	.28	58.69	2
15	20868	32 4621	-.075	1.66	58.27	2	11	21195	2 4701	-.027	.11	58.76	4
12	20899	13 5096	.052	-.11	57.22	2	11	21200	-3 5688	-.006	-.34	58.21	2
11	20902	1 4714	-.008	-.20	57.23	2	12	21217	11 5044	-.014	-.04	57.70	2
15	20903	37 4820	.010	.28	57.68	2	5	21223	37 4881	-.044	-.16	57.76	3
12	20908	12 4974	-.027	.17	58.14	2	18	21240	84 536	-.624	.21	57.22	2
18	20923	74 1018	.049	.11	57.19	2	17	21243	59 2762	-.057	.24	57.70	2
17	20930	50 4025	-.030	.21	58.15	2	14	21244	21 4977	.070	.42	58.79	2
11	20935	-4 5879	.033	-.07	57.20	2	16	21247	41 4853	-.090	-.41	58.30	2
17	20937	51 3598	-.021	-.21	57.40	3	17	21248	61 2510	.073	.43	57.68	2
13	20954	18 5147	.032	.13	57.70	2	15	21254	28 4630	.023	.16	57.08	3

OBSERVED - AGK 2							OBSERVED - AGK 2						
Zone	Star	B.D. No.	$\Delta\alpha$	$\Delta\delta$	Epoch	No.	Zone	Star	B.D. No.	$\Delta\alpha$	$\Delta\delta$	Epoch	No.
13	21255	15 4880	.024	.05	58.69	2	11	21480	0 4603	.024	-.02	57.22	2
12	21256	6 5197	.072	-.46	57.28	2	18	21489	71 1246	-.167	.72	57.22	2
15	21267	31 4965	.071	.00	57.28	2	14	21495	20 5419	.052	-.43	58.22	2
13	21276	18 5209	.081	-.38	57.75	2							
11	21278	0 4566	.030	-.13	57.68	2							
15	21280	36 5117	.056	.01	58.28	2							
13	21282	16 4983	-.003	.74	58.71	3							
15	21283	27 4619	.027	-.56	57.76	2							
11	21291	-4 5955	-.033	.89	58.15	2							
16	21294	45 4325	-.057	.34	59.80	2							
11	21296	-1 4489	.011	-.41	58.35	2							
11	21298	3 4895	.033	.49	59.34	2							
12	21301	7 5086	.052	-.39	57.75	2							
12	21303	14 5058	.056	.23	57.29	2							
15	21306	29 5002	-.016	.27	57.76	2							
16	21307	41 4869	-.075	.03	59.34	2							
14	21315	20 5375	.039	.39	59.23	4							
12	21317	9 5283	.042	.83	59.79	4							
17	21319	67 1564	.031	.90	58.22	2							
12	21328	12 5027	.045	1.13	58.35	2							
17	21330	66 1648	-.284	-.29	57.22	2							
17	21331	62 2310	.017	.10	58.30	2							
16	21335	40 5161	.043	.76	57.24	2							
4	21340	22 4914	.035	.59	57.76	2							
17	21341	58 2660	-.021	-.23	58.22	2							
11	21343	-4 5965	-.025	1.03	58.15	2							
15	21344	26 4707	-.010	-.99	58.85	2							
13	21355	19 5164	-.056	1.39	58.21	2							
15	21357	28 4655	-.036	-1.16	59.09	4							
11	21376	0 4581	-.022	.40	57.68	2							
12	21380	11 5072	-.039	.59	58.08	3							
17	21389	54 3066	.029	.71	57.76	2							
11	21390	-2 6059	.047	.39	58.24	2							
13	21391	17 5002	.025	.38	58.24	2							
15	21400	37 4903	-.147	-.01	58.75	2							
16	21420	45 4367	.008	.48	58.22	2							
11	21422	-1 4504	-.003	-.30	57.24	2							
11	21423	1 4804	.049	.11	58.74	3							
13	21434	17 5013	.047	.29	57.79	2							
14	21435	19 5176	-.011	.36	57.76	2							
15	21439	31 5007	-.033	-.65	58.23	2							
15	21445	38 5103	.054	-.87	57.23	2							
15	21450	30 5066	-.195	.30	58.15	2							
13	21454	15 4916	-.003	.25	58.25	2							
11	21457	3 4917	.024	.65	58.87	2							
16	21462	40 5202	.013	-.16	58.74	2							
17	21467	67 2343	.097	.11	58.27	2							
12	21469	10 5018	.019	.73	58.86	2							
15	21472	35 5149	-.111	.20	58.08	3							
11	21475	1 4814	.010	.24	57.24	2							

Star No.	Mean Epoch	No. of Observations	Observed	FK3 Revised	Difference
1	1950.00	10	10.00	10.00	0.00
2	1950.00	10	10.00	10.00	0.00
3	1950.00	10	10.00	10.00	0.00
4	1950.00	10	10.00	10.00	0.00
5	1950.00	10	10.00	10.00	0.00
6	1950.00	10	10.00	10.00	0.00
7	1950.00	10	10.00	10.00	0.00
8	1950.00	10	10.00	10.00	0.00
9	1950.00	10	10.00	10.00	0.00
10	1950.00	10	10.00	10.00	0.00
11	1950.00	10	10.00	10.00	0.00
12	1950.00	10	10.00	10.00	0.00
13	1950.00	10	10.00	10.00	0.00
14	1950.00	10	10.00	10.00	0.00
15	1950.00	10	10.00	10.00	0.00
16	1950.00	10	10.00	10.00	0.00
17	1950.00	10	10.00	10.00	0.00
18	1950.00	10	10.00	10.00	0.00
19	1950.00	10	10.00	10.00	0.00
20	1950.00	10	10.00	10.00	0.00
21	1950.00	10	10.00	10.00	0.00
22	1950.00	10	10.00	10.00	0.00
23	1950.00	10	10.00	10.00	0.00
24	1950.00	10	10.00	10.00	0.00
25	1950.00	10	10.00	10.00	0.00
26	1950.00	10	10.00	10.00	0.00
27	1950.00	10	10.00	10.00	0.00
28	1950.00	10	10.00	10.00	0.00
29	1950.00	10	10.00	10.00	0.00
30	1950.00	10	10.00	10.00	0.00
31	1950.00	10	10.00	10.00	0.00
32	1950.00	10	10.00	10.00	0.00
33	1950.00	10	10.00	10.00	0.00
34	1950.00	10	10.00	10.00	0.00
35	1950.00	10	10.00	10.00	0.00
36	1950.00	10	10.00	10.00	0.00
37	1950.00	10	10.00	10.00	0.00
38	1950.00	10	10.00	10.00	0.00
39	1950.00	10	10.00	10.00	0.00
40	1950.00	10	10.00	10.00	0.00
41	1950.00	10	10.00	10.00	0.00
42	1950.00	10	10.00	10.00	0.00
43	1950.00	10	10.00	10.00	0.00
44	1950.00	10	10.00	10.00	0.00
45	1950.00	10	10.00	10.00	0.00
46	1950.00	10	10.00	10.00	0.00
47	1950.00	10	10.00	10.00	0.00
48	1950.00	10	10.00	10.00	0.00
49	1950.00	10	10.00	10.00	0.00
50	1950.00	10	10.00	10.00	0.00
51	1950.00	10	10.00	10.00	0.00
52	1950.00	10	10.00	10.00	0.00
53	1950.00	10	10.00	10.00	0.00
54	1950.00	10	10.00	10.00	0.00
55	1950.00	10	10.00	10.00	0.00
56	1950.00	10	10.00	10.00	0.00
57	1950.00	10	10.00	10.00	0.00
58	1950.00	10	10.00	10.00	0.00
59	1950.00	10	10.00	10.00	0.00
60	1950.00	10	10.00	10.00	0.00
61	1950.00	10	10.00	10.00	0.00
62	1950.00	10	10.00	10.00	0.00
63	1950.00	10	10.00	10.00	0.00
64	1950.00	10	10.00	10.00	0.00
65	1950.00	10	10.00	10.00	0.00
66	1950.00	10	10.00	10.00	0.00
67	1950.00	10	10.00	10.00	0.00
68	1950.00	10	10.00	10.00	0.00
69	1950.00	10	10.00	10.00	0.00
70	1950.00	10	10.00	10.00	0.00
71	1950.00	10	10.00	10.00	0.00
72	1950.00	10	10.00	10.00	0.00
73	1950.00	10	10.00	10.00	0.00
74	1950.00	10	10.00	10.00	0.00
75	1950.00	10	10.00	10.00	0.00
76	1950.00	10	10.00	10.00	0.00
77	1950.00	10	10.00	10.00	0.00
78	1950.00	10	10.00	10.00	0.00
79	1950.00	10	10.00	10.00	0.00
80	1950.00	10	10.00	10.00	0.00
81	1950.00	10	10.00	10.00	0.00
82	1950.00	10	10.00	10.00	0.00
83	1950.00	10	10.00	10.00	0.00
84	1950.00	10	10.00	10.00	0.00
85	1950.00	10	10.00	10.00	0.00
86	1950.00	10	10.00	10.00	0.00
87	1950.00	10	10.00	10.00	0.00
88	1950.00	10	10.00	10.00	0.00
89	1950.00	10	10.00	10.00	0.00
90	1950.00	10	10.00	10.00	0.00
91	1950.00	10	10.00	10.00	0.00
92	1950.00	10	10.00	10.00	0.00
93	1950.00	10	10.00	10.00	0.00
94	1950.00	10	10.00	10.00	0.00
95	1950.00	10	10.00	10.00	0.00
96	1950.00	10	10.00	10.00	0.00
97	1950.00	10	10.00	10.00	0.00
98	1950.00	10	10.00	10.00	0.00
99	1950.00	10	10.00	10.00	0.00
100	1950.00	10	10.00	10.00	0.00

Part III

CORRECTIONS TO THE 930 FK3 STARS

The differences are in the form observed minus FK3 Revised.
 The mean epoch and the number of observations in each co-ordinate are given.
 The observations at lower culmination are listed separately at the end.

OBSERVED - FK3R							OBSERVED - FK3R						
FK4 No.	$\Delta\alpha$	Epoch	No.	$\Delta\delta$	Epoch	No.	FK4 No.	$\Delta\alpha$	Epoch	No.	$\Delta\delta$	Epoch	No.
1002	.004	60.03	4	-.24	60.03	4	1037	.001	57.47	10	.18	57.52	9
1	-.019	59.89	4	-.04	59.89	4	46	-.032	58.24	4	-.05	58.24	4
2	.014	59.90	6	.43	59.90	6	48	.021	60.01	5	.24	60.01	5
4	-.003	57.94	6	.26	57.94	6	1039	-.004	60.59	4	-.28	60.59	4
7	-.008	59.00	6	-.01	59.00	6	1040	.003	57.67	8	.19	57.77	7
1004	.000	59.26	6	-.03	59.26	6	1042	.024	58.61	8	-.01	58.61	8
1005	-.004	58.76	5	-.18	58.76	5	50	.011	58.79	9	-.16	58.79	9
1006	-.011	59.30	5	.08	59.30	5	1045	-.026	59.02	5	-.02	59.02	5
9	.009	60.58	5	-.31	60.58	5	1046	-.003	58.48	12	.02	58.55	11
1008	-.012	57.75	5	-.12	57.75	5	51	.024	58.53	4	-.04	58.53	4
1009	-.008	59.02	7	.15	59.02	7	52	.007	59.58	4	.15	59.58	4
1010	-.009	58.96	14	-.01	58.96	14	55	.060	57.04	4	.11	57.04	4
1011	.006	59.48	6	-.25	59.41	5	56	-.011	58.86	9	.02	58.87	8
1012	.015	59.60	6	.14	59.60	6	1047	.006	58.79	6	.16	58.79	6
13	-.005	59.00	14	-.04	59.10	12	1049	-.007	58.75	6	-.18	58.75	6
16	.033	58.65	13	.11	58.65	13	57	.001	59.98	5	.12	59.05	4
17	.006	58.69	7	.17	58.69	7	60	-.001	58.49	9	.07	58.71	8
18	-.024	58.85	5	.30	58.85	5	1050	.016	58.17	6	-.10	58.17	6
19	-.008	58.34	6	.19	58.34	6	1051	.009	59.19	8	.07	59.02	9
20	-.048	59.25	7	-.08	59.32	6	907	.444	58.66	8	.33	58.65	7
21	.012	57.97	6	.32	57.97	6	1052	-.017	58.31	4	.16	58.31	4
25	-.006	58.52	5	.09	58.56	6	62	-.001	58.62	4	.05	58.88	5
24	.021	58.33	8	.04	58.33	8	64	.027	59.62	5	-.37	59.62	5
27	-.014	59.80	6	-.12	59.80	6	63	.064	58.71	6	.00	58.71	6
1019	.012	58.42	8	.21	58.42	8	65	.005	57.63	5	-.06	57.65	6
28	.000	57.76	5	-.18	57.76	5	66	-.013	59.26	5	-.25	59.26	5
1020	-.007	59.76	5	.14	59.76	5	1054	-.017	59.78	6	-.10	59.78	6
1021	-.011	58.47	4	.07	58.47	4	70	.022	58.23	5	-.12	58.23	5
30	.003	58.56	6	-.21	58.56	6	73	-.033	59.68	6	-.05	59.68	6
29	.024	60.14	6	-.02	60.40	5	74	.021	58.05	5	-.03	58.05	5
1022	-.016	58.51	13	-.24	58.44	13	75	-.001	58.61	4	-.39	58.61	4
32	.050	59.10	4	.03	59.10	4	1056	.014	59.88	5	-.35	59.88	5
33	-.026	59.74	4	.06	59.74	4	1635	-.152	58.31	9	.33	58.31	9
1023	-.010	58.36	4	.28	58.36	4	77	-.047	59.03	4	.66	59.03	4
1024	-.012	58.51	6	.19	58.51	6	1057	-.010	59.80	4	.27	59.41	3
36	.003	58.77	6	-.23	59.16	5	1058	.018	59.01	4	.18	59.01	4
37	.008	59.00	7	-.06	59.02	6	76	.113	59.90	4	-.01	59.90	4
906	-.131	59.05	10	.18	59.09	9	1059	.022	58.83	5	-.11	58.83	5
1028	.023	59.96	5	.02	59.78	4	79	-.001	59.58	4	-.19	59.58	4
1030	.039	59.17	5	-.05	59.17	5	80	-.018	59.06	6	-.12	59.06	6
40	.008	60.51	4	-.45	60.42	3	81	.014	59.39	4	-.27	59.39	4
42	.008	58.57	4	-.17	58.57	4	1061	-.007	58.63	5	-.11	58.63	5
41	.042	58.48	11	-.02	58.48	11	1063	-.026	58.46	7	-.07	58.46	7
1032	.005	59.22	5	.20	59.22	5	1068	.021	59.95	6	-.16	59.95	6
43	-.029	60.75	5	-.12	60.75	5	85	.000	58.96	12	.10	58.96	12
1033	-.001	58.82	11	-.07	59.02	10	1069	.028	57.87	5	-.01	57.87	5
1034	.018	58.35	14	.12	58.15	13	1070	-.010	59.24	5	-.28	59.24	5
45	-.003	59.04	9	-.33	59.11	7	87	.054	60.07	4	.14	60.81	3
1035	.009	58.18	8	-.29	58.03	9	1072	.022	59.22	6	.26	59.27	5
47	-.013	60.25	5	-.24	60.25	5	1073	.007	59.28	5	.33	59.28	5

OBSERVED - FK 3 R							OBSERVED - FK 3 R						
FK4 No.	$\Delta\alpha$	Epoch	No.	$\Delta\delta$	Epoch	No.	FK4 No.	$\Delta\alpha$	Epoch	No.	$\Delta\delta$	Epoch	No.
1074	.023	59.10	4	.34	59.10	4	1104	.014	58.89	6	-.21	58.89	6
89	.007	59.20	6	.38	58.87	5	139	-.012	59.60	4	-.15	59.60	4
91	.005	59.07	13	.00	59.07	13	138	-.045	58.94	4	-.16	58.94	4
92	.071	58.94	5	.07	58.94	5	142	.020	60.70	4	.15	60.70	4
94	.019	59.51	4	-.21	59.51	4	1105	-.008	60.66	4	.23	60.32	5
93	-.015	59.79	5	.17	59.72	4	1106	-.014	59.27	4	.09	59.27	4
1077	-.029	59.86	4	.11	59.66	5	1107	-.013	58.39	6	.19	58.73	6
98	-.010	58.25	8	.23	58.45	7	144	.012	60.16	4	.15	60.16	4
99	-.006	57.75	7	.33	57.90	6	147	.009	58.94	4	.27	58.94	4
100	.001	58.98	7	-.17	58.98	7	148	-.001	58.77	5	-.16	58.77	5
1079	-.002	58.25	4	-.13	58.25	4	150	-.008	59.47	4	-.09	59.47	4
103	-.011	58.70	7	.23	58.70	7	1111	.001	59.54	10	-.05	59.54	10
104	.002	58.34	5	.05	58.45	4	151	.005	59.65	7	-.17	59.65	7
1080	-.017	58.44	5	-.06	58.44	5	1112	.000	59.15	6	-.10	59.15	6
1081	.002	59.17	4	.29	59.17	4	1113	.007	59.00	5	.05	59.00	5
1082	-.008	59.55	4	-.42	59.55	4	152	-.003	59.25	6	.24	59.33	7
1083	.001	58.77	11	.14	58.77	11	1115	-.001	58.72	7	-.27	58.72	7
105	.021	58.77	12	.04	59.24	11	1116	-.012	58.89	5	-.20	58.89	5
107	-.010	60.13	5	-.17	60.13	5	154	.015	58.95	11	-.12	59.14	10
108	-.029	60.11	4	-.12	60.11	4	1117	-.011	59.67	4	.07	59.67	4
109	-.004	60.13	5	-.23	60.13	5	1118	-.003	58.47	10	.04	58.47	10
111	-.017	59.23	9	.43	59.39	8	159	-.016	59.99	5	-.20	59.99	5
112	-.025	59.57	7	-.10	59.57	7	158	-.012	59.48	5	.01	59.48	5
1088	-.006	58.08	6	-.25	58.22	7	908	-.234	59.40	10	.02	59.40	10
114	.017	59.46	6	-.19	59.46	6	162	-.004	59.96	4	-.02	59.96	4
116	.000	58.95	12	-.07	58.95	12	1120	.007	59.03	6	-.31	59.03	6
1089	-.005	59.70	6	.05	59.84	5	1122	.047	59.33	5	-.32	59.33	5
1091	.007	58.16	5	-.24	58.31	6	164	.055	59.67	4	.50	59.67	4
115	.028	59.47	13	.18	59.47	13	1123	-.004	58.52	11	-.18	58.52	11
1093	.012	59.86	5	.21	59.86	5	165	-.023	58.98	6	.22	59.39	5
1094	.007	58.97	5	-.14	58.97	5	1124	-.024	59.08	4	.06	59.08	4
1636	-.363	58.75	12	.14	58.75	12	1125	-.003	60.25	4	.10	60.25	4
1096	.020	59.92	4	-.43	59.92	4	168	.011	60.24	4	.61	60.24	4
120	-.013	60.53	4	.13	60.53	4	169	-.019	59.14	9	-.21	59.14	9
121	.007	60.62	4	.05	60.62	4	1126	-.009	58.09	7	-.43	58.30	6
123	-.015	59.59	6	-.10	59.59	6	174	.003	58.69	4	.33	58.69	4
122	-.001	58.85	5	.52	58.85	5	1128	-.015	57.94	4	.24	57.94	4
124	-.014	59.03	5	.11	59.03	5	1131	.017	60.13	6	.00	60.13	6
125	-.006	59.67	4	-.26	59.67	4	173	-.037	60.07	9	.10	60.07	9
1097	-.008	59.19	11	-.14	59.19	11	176	.003	59.57	5	.00	59.57	5
1098	.007	58.55	3	.39	58.55	3	175	.008	59.30	5	-.05	59.30	5
127	-.006	60.25	8	-.04	60.25	8	1133	-.023	59.15	4	.37	59.15	4
1101	-.002	58.84	13	-.15	58.86	14	1134	.007	60.60	5	.16	60.60	5
1103	-.003	59.33	5	-.42	59.33	5	1135	.007	60.00	4	-.17	60.00	4
129	.030	58.68	7	.10	58.68	7	179	.024	59.46	4	.04	59.46	4
131	.006	59.44	4	.19	59.44	4	178	-.022	58.72	8	-.27	58.82	7
135	.023	59.92	5	-.19	59.58	6	1136	.011	59.74	5	-.07	59.74	5
134	-.029	60.03	5	.47	59.86	4	180	.015	59.30	5	.31	59.30	5
136	.029	60.47	5	.09	60.47	5	181	-.014	58.50	5	.14	58.50	5
137	-.005	59.63	6	-.27	59.63	6	183	-.011	59.68	4	.32	59.68	4

OBSERVED - FK3R							OBSERVED - FK3R						
FK4 No.	$\Delta\alpha$	Epoch	No.	$\Delta\delta$	Epoch	No.	FK4 No.	$\Delta\alpha$	Epoch	No.	$\Delta\delta$	Epoch	No.
182	-.006	58.33	6	-.18	58.33	6	237	.000	58.57	6	-.03	58.57	6
1137	.000	59.76	6	.10	59.93	5	1170	-.005	58.99	19	.17	58.90	20
184	-.017	60.25	5	-.23	60.78	4	241	-.008	59.21	5	.32	59.21	5
1140	-.008	60.52	5	.38	60.52	5	244	-.018	58.74	6	-.09	58.74	6
185	-.040	58.27	5	-.10	58.27	5	242	-.003	60.44	4	.42	60.44	4
188	.003	59.43	7	-.15	59.43	7	1171	-.009	59.54	6	.17	59.26	5
1142	-.006	58.26	10	-.05	58.26	10	1172	.002	59.94	4	.17	59.94	4
1141	-.035	58.88	4	.35	58.88	4	246	-.011	58.02	13	-.15	58.02	13
190	.020	58.83	6	.17	58.83	6	1173	.010	58.91	5	.28	58.91	5
192	-.002	58.50	9	.07	58.50	9	1174	-.009	59.30	6	.04	59.30	6
194	-.007	60.26	8	-.30	60.13	8	1175	.008	58.47	5	-.14	58.37	4
193	-.036	60.40	4	-.03	60.40	4	247	.007	58.72	8	.01	58.72	8
1637	-.329	58.25	6	.33	58.10	7	251	-.006	58.72	6	.14	58.72	6
191	.028	58.75	8	-.04	58.75	8	250	-.011	58.25	6	.00	58.06	5
195	-.001	60.56	5	.16	60.56	5	248	-.020	59.02	14	-.16	59.02	14
1145	.025	60.98	4	.38	60.98	4	254	.004	57.84	9	.27	57.84	9
1147	-.008	58.91	9	.31	58.91	9	256	-.004	58.10	6	.31	58.10	6
201	.012	59.00	4	.25	59.00	4	255	-.037	58.81	5	.29	58.81	5
202	-.004	60.18	5	-.13	59.51	6	1177	-.003	59.14	15	-.02	59.14	15
1148	-.010	57.96	4	-.09	57.96	4	1176	-.008	58.37	4	-.03	58.37	4
203	.020	59.06	7	-.18	59.06	7	258	.003	58.76	8	.04	58.76	8
1150	.005	58.27	6	.15	58.27	6	1179	.004	57.61	10	-.38	57.61	10
206	.011	59.08	6	-.46	59.21	7	259	.055	58.29	6	-.02	58.29	6
1151	.000	59.17	6	.06	59.17	6	261	-.003	59.58	6	.27	59.58	6
208	.010	57.88	10	.03	57.88	10	266	-.012	58.05	11	.12	58.13	10
209	.001	59.80	4	.08	59.80	4	260	.018	59.63	13	.21	59.58	12
205	.099	58.72	8	.26	58.72	8	1181	.010	59.35	16	-.03	59.39	14
210	.009	59.72	5	-.16	59.72	5	1182	-.018	57.92	7	.39	57.92	7
211	.000	58.64	6	-.18	58.64	6	269	.003	58.95	12	.03	58.90	10
216	-.022	58.35	9	.29	58.35	9	1185	.009	58.82	16	-.01	58.80	15
218	-.006	59.30	6	-.24	59.39	5	1186	.002	58.31	11	-.09	58.31	11
220	-.010	60.73	8	.03	60.73	8	274	-.010	58.98	5	.05	58.98	5
1638	-.145	59.50	6	.11	59.50	6	1187	-.003	58.73	15	-.08	58.63	14
1155	-.004	58.29	6	-.03	58.29	6	1188	-.002	59.52	5	-.18	59.52	5
221	.002	58.78	8	-.04	58.77	7	1190	.005	58.58	7	-.21	58.51	8
1158	-.005	60.72	4	.05	60.72	4	276	.006	58.78	8	-.20	58.78	8
1157	-.004	58.81	4	.29	58.81	4	277	.002	59.61	8	-.21	59.70	7
224	.002	59.25	4	.05	59.25	4	279	.003	58.00	8	.04	58.00	8
225	.006	60.27	4	.20	60.27	4	909	-.450	58.75	9	-.21	58.75	9
227	-.006	59.79	4	-.09	59.79	4	280	.002	59.03	11	.12	58.80	9
1161	-.023	58.73	15	.18	58.89	17	1191	.008	58.45	6	.24	58.45	6
1162	-.038	58.74	4	-.04	58.74	4	282	.017	58.59	4	.58	58.59	4
1163	-.014	58.78	6	.01	58.78	6	285	.007	59.51	4	-.22	59.51	4
230	.002	58.92	21	.09	59.01	22	284	.042	58.64	4	-.12	58.64	4
232	.001	58.74	10	.05	58.74	10	286	.017	57.81	4	.32	57.81	4
233	.002	58.97	15	-.14	58.97	15	1193	-.007	58.61	19	-.16	58.61	19
1168	-.008	59.98	4	.01	59.98	4	287	-.003	58.78	6	.42	59.09	5
1167	-.026	60.32	4	.30	60.32	4	1196	.005	59.51	5	-.01	59.51	5
234	.030	59.71	4	.09	59.71	4	1195	-.011	59.52	6	-.19	59.52	6
1169	-.001	57.15	10	.17	57.15	10	289	.001	58.56	18	.07	58.56	18

OBSERVED - FK 3 R						OBSERVED - FK 3 R							
FK4 No.	$\Delta\alpha$	Epoch	No.	$\Delta\delta$	Epoch	No.	FK4 No.	$\Delta\alpha$	Epoch	No.	$\Delta\delta$	Epoch	No.
291	-.053	59.38	5	-.04	59.38	5	339	.009	59.95	5	.03	59.95	5
292	-.014	57.84	6	-.07	57.84	6	338	.017	59.19	6	.08	59.19	6
293	-.003	57.81	11	-.04	57.76	10	1235	.000	58.87	11	-.16	58.87	11
294	.000	57.20	7	-.10	57.20	7	341	.038	60.46	4	-.11	60.55	5
295	.014	59.42	5	-.31	59.42	5	340	.003	60.36	5	-.09	60.36	5
1200	-.021	58.01	5	-.17	58.01	5	1236	.005	58.59	8	.15	58.59	8
1199	-.012	57.77	5	.01	57.77	5	1237	.014	57.23	5	.22	57.23	5
1201	-.011	58.82	12	-.32	58.78	11	1238	.017	57.89	9	-.15	57.89	9
296	-.001	58.79	6	-.14	58.38	5	1640	.023	58.11	8	.10	58.24	7
1205	.010	59.27	27	-.12	59.26	28	1239	-.013	59.87	3	.44	59.87	3
1207	-.008	58.88	7	.14	58.82	6	1240	-.006	59.62	5	.23	59.96	4
299	.009	58.15	13	.10	58.15	13	346	-.008	58.41	13	-.21	58.41	13
1208	.004	58.65	8	-.12	58.65	8	347	-.010	59.62	10	.20	59.62	10
300	.051	59.15	9	-.13	59.13	8	350	.001	58.88	12	.15	58.88	12
1209	-.019	59.17	6	.18	59.17	6	352	-.003	58.33	8	-.36	58.33	8
304	-.006	58.28	12	.05	58.28	12	1244	.007	58.73	9	-.21	58.73	9
302	.058	58.31	7	.13	58.31	7	1245	.003	58.65	19	.05	58.65	19
1211	-.003	58.97	6	.06	58.97	6	354	.009	58.13	10	.20	58.33	9
1213	-.012	58.26	11	.02	58.17	13	355	.034	57.71	9	-.14	57.71	9
305	-.004	58.83	6	.23	58.83	6	1246	.026	56.39	6	-.11	56.39	6
307	-.009	59.89	6	.22	59.89	6	358	.013	58.97	5	-.10	58.97	5
1639	-.077	57.95	14	.05	57.95	14	357	.052	60.21	4	-.03	60.21	4
1214	.035	60.21	5	-.11	60.21	5	910	.002	59.01	14	-.25	58.98	13
1215	.046	59.68	6	-.28	59.57	5	360	.025	57.56	8	-.04	57.56	8
310	.058	58.78	19	-.14	58.65	18	1249	.003	57.79	17	.02	57.79	17
312	.000	60.17	7	-.03	60.17	7	1250	-.004	58.51	14	-.09	58.51	14
1216	-.005	58.55	11	.01	58.55	11	363	.027	57.52	7	.31	57.52	7
1218	-.005	58.32	10	.13	58.63	12	365	.000	57.39	7	-.06	57.39	7
1217	-.003	58.12	6	-.13	58.50	5	1251	.019	57.45	9	.34	57.45	9
314	-.018	58.83	11	.14	58.83	11	1252	.028	58.93	7	-.10	58.93	7
1220	.005	58.39	9	.09	58.39	9	367	.008	57.82	7	-.04	57.82	7
316	.011	58.36	11	.08	58.36	11	1253	-.003	58.07	7	-.03	58.07	7
1222	.018	58.40	6	.23	58.40	6	1255	-.007	57.97	12	.27	57.97	12
317	.021	58.88	13	-.10	58.85	12	368	.032	58.09	7	-.10	58.09	7
320	-.002	58.83	6	.12	58.83	6	370	.010	58.84	15	.10	58.84	15
321	-.004	60.01	6	-.23	60.01	6	371	-.012	59.05	6	.14	59.05	6
322	.030	58.48	8	.01	58.48	8	1257	.003	58.41	17	-.11	58.36	16
1223	.000	57.62	12	.22	57.56	11	372	.029	58.68	9	.01	58.73	10
323	-.006	59.40	5	-.42	59.96	4	374	.027	59.08	7	.16	59.08	7
1224	.005	59.87	12	-.10	59.93	11	376	.000	58.40	15	-.01	58.40	15
1225	.021	59.05	6	.37	59.05	6	378	.001	58.88	15	-.13	58.88	15
325	.005	58.53	9	.03	58.47	11	1258	-.007	57.93	8	.00	57.93	8
1228	-.010	58.30	12	.09	58.30	12	1259	.001	58.40	14	.19	58.40	14
326	.010	58.92	7	-.09	58.92	7	379	.014	58.07	7	.16	58.07	7
328	.012	57.99	4	.20	57.99	4	380	-.009	58.63	8	-.12	58.63	8
1230	-.005	58.21	9	-.06	58.21	9	381	-.011	59.84	7	-.12	59.84	7
334	-.027	60.08	8	-.15	60.08	8	384	.000	58.45	5	.28	58.45	5
337	-.018	58.03	11	.04	58.03	11	383	-.004	56.71	6	.19	56.71	6
335	-.014	60.04	6	.10	60.19	5	1262	.035	58.64	5	.03	58.64	5
1232	.004	59.42	5	-.01	59.42	5	1263	.014	57.57	6	-.06	57.81	7

OBSERVED - FK3R							OBSERVED - FK3R						
FK4 No.	$\Delta\alpha$	Epoch	No.	$\Delta\delta$	Epoch	No.	FK4 No.	$\Delta\alpha$	Epoch	No.	$\Delta\delta$	Epoch	No.
1266	.002	57.87	13	.01	57.76	12	1299	.011	58.05	11	-.21	57.52	10
386	.001	59.66	5	-.02	59.76	4	437	.011	57.32	8	-.30	57.32	8
1267	-.029	58.64	5	-.08	58.64	5	1300	-.012	58.34	10	.11	58.34	10
387	.032	58.23	9	-.46	58.23	9	440	.052	57.78	11	-.03	57.82	10
388	.000	59.11	13	-.01	59.11	13	1302	-.004	58.16	19	-.19	58.16	19
390	-.019	58.24	6	.01	58.24	6	441	-.002	58.41	8	.17	58.41	8
911	-.075	58.37	18	.02	58.37	18	1303	.002	58.56	7	.18	58.56	7
1270	.013	57.20	5	.18	57.20	5	1304	.006	57.29	9	.03	57.29	9
1271	.003	59.50	4	.47	59.50	4	444	-.013	58.83	6	-.19	58.83	6
394	.037	59.24	4	.30	59.24	4	445	.001	59.46	6	-.13	59.46	6
1272	-.002	59.46	4	-.03	59.46	4	1306	-.017	57.25	14	-.13	57.25	14
396	.003	59.50	5	-.21	59.50	5	1307	.011	57.69	5	-.13	57.69	5
395	.058	58.23	4	.31	58.23	4	447	.013	58.17	5	-.22	58.17	5
398	-.004	59.10	7	-.05	58.91	6	1308	-.006	58.28	4	.06	58.28	4
1274	-.009	58.61	15	.11	58.46	16	1310	-.020	58.66	7	-.02	58.39	6
1275	.003	58.79	7	-.15	58.79	7	1311	-.005	57.31	16	-.01	57.31	16
404	-.001	58.65	23	-.06	58.67	22	450	.000	57.77	7	-.41	57.77	7
403	-.007	59.37	8	-.29	59.37	8	1642	-.169	57.80	8	-.02	57.80	8
1276	.012	58.27	6	-.01	58.27	6	451	-.060	58.65	8	.25	59.00	7
405	.015	58.26	5	-.19	58.26	5	1313	.010	57.18	8	-.05	57.17	7
407	.019	58.84	5	-.24	58.84	5	454	.024	58.32	14	-.07	58.31	13
1278	.009	59.11	13	.17	59.35	12	1314	.003	57.76	13	-.11	57.76	13
1279	-.004	59.20	6	-.03	59.20	6	456	.002	59.08	4	.15	58.94	5
409	-.005	58.42	16	-.20	58.42	15	458	-.004	59.14	5	.20	59.14	5
1281	.012	58.54	7	-.19	58.54	7	1315	.015	58.82	6	-.23	58.33	5
412	-.001	58.41	8	.05	58.41	8	460	-.010	57.49	5	-.42	57.49	5
413	.020	58.09	9	.19	58.09	9	1316	.004	58.59	4	.01	58.59	4
1282	-.006	58.89	6	-.14	58.89	6	1317	-.008	58.59	7	-.07	58.59	7
1284	.017	58.48	11	-.23	58.29	10	1318	-.002	58.19	9	-.04	58.19	9
416	-.020	58.89	5	.09	58.89	5	461	.001	57.92	15	.19	57.92	15
1285	.005	58.75	10	.18	58.71	9	466	.005	57.81	8	.18	57.81	8
417	-.017	59.44	6	-.26	59.60	6	467	.020	58.18	7	-.17	58.09	8
418	-.001	58.67	11	.09	58.60	10	1322	-.001	58.16	6	-.11	58.16	6
1286	-.009	58.17	8	.04	58.17	8	472	-.037	58.22	7	-.08	58.22	7
1287	-.006	58.44	11	.11	58.44	11	470	-.028	57.96	5	-.22	57.96	5
420	.005	58.17	8	.05	58.17	8	1323	.020	59.51	5	.29	59.57	4
1641	-.067	58.33	17	.19	58.33	17	473	.017	58.77	4	.19	58.77	4
422	-.007	58.89	5	.49	58.89	5	1324	.004	58.20	21	-.20	58.30	20
423	.000	59.30	4	.19	59.30	4	475	.003	58.14	15	-.05	57.91	16
424	-.024	57.43	6	.02	57.43	6	1326	-.005	58.35	18	-.22	58.35	18
1292	.004	58.95	17	.04	58.87	16	478	.021	58.18	8	.08	58.18	8
425	.000	59.12	7	-.02	59.08	6	1327	-.015	57.73	7	-.17	57.73	7
1293	-.004	57.95	12	.27	57.95	12	1328	.006	58.35	13	-.15	58.34	14
427	.004	58.76	15	.04	58.73	16	1330	-.002	57.96	12	.01	57.96	12
429	.040	57.82	12	-.18	57.69	11	1332	-.002	58.06	7	.09	58.06	7
1295	-.024	59.46	6	-.24	59.46	6	1333	.016	58.65	7	.14	58.48	8
1296	-.001	58.94	9	.00	58.94	9	1335	-.007	58.14	11	-.15	58.14	11
1297	-.008	57.93	14	.33	57.93	14	483	.006	58.14	5	.12	58.14	5
432	.009	59.04	9	.11	59.04	9	484	-.006	59.36	6	-.17	59.36	6
433	-.009	58.57	12	-.12	58.57	12	486	.042	57.84	8	.06	57.84	8

OBSERVED - FK 3 R							OBSERVED - FK 3 R						
FK4 No.	$\Delta\alpha$	Epoch	No.	$\Delta\delta$	Epoch	No.	FK4 No.	$\Delta\alpha$	Epoch	No.	$\Delta\delta$	Epoch	No.
485	-.007	58.14	4	-.19	58.14	4	1374	-.001	58.28	9	.17	58.28	9
1336	.004	58.36	17	-.08	58.36	17	1375	-.009	59.14	9	.23	59.25	8
488	.001	58.48	7	-.21	58.48	7	531	-.023	58.50	7	.03	58.50	7
1337	-.013	58.07	4	.29	58.07	4	1378	.005	58.60	5	.00	58.60	5
1338	-.019	58.91	5	.10	58.91	5	533	-.022	59.51	7	.00	59.51	7
1339	.018	58.92	5	-.14	59.33	4	1379	.002	58.28	12	.35	58.28	12
490	-.015	58.17	8	-.22	58.17	8	534	-.008	60.11	4	.17	60.11	4
491	-.002	59.33	4	-.20	59.33	4	535	-.002	60.00	5	.01	60.00	5
492	-.022	57.69	8	-.16	57.69	8	536	.006	58.21	5	.24	58.21	5
1344	-.008	58.24	20	-.14	58.24	20	1380	-.009	57.24	7	-.02	57.20	6
494	-.021	58.01	10	.05	58.05	11	1381	.018	58.62	4	.44	58.62	4
1346	-.001	57.93	22	.11	58.01	21	540	-.019	58.14	9	.17	58.14	9
497	.014	58.79	7	.25	58.79	7	1382	.002	57.82	7	-.07	57.82	7
498	-.018	59.14	5	-.15	59.14	5	545	-.037	59.90	4	.41	59.90	4
1348	-.008	58.21	7	.20	58.21	7	1383	-.004	57.20	7	.04	57.20	7
499	.048	58.57	5	.11	58.57	5	1384	-.009	58.16	4	.14	58.16	4
1349	-.005	58.95	5	.36	58.95	5	547	-.010	59.56	8	.11	59.56	8
1350	.007	59.05	7	-.12	59.05	7	1386	.004	58.31	11	-.19	58.31	11
500	-.005	57.55	11	-.21	57.55	11	549	.049	58.18	6	.18	58.18	6
1351	.005	57.57	10	-.05	57.60	9	550	.012	58.87	6	.38	58.87	6
501	-.021	59.18	6	.26	59.18	6	1388	.006	58.87	9	.03	58.67	8
502	.000	58.85	6	.08	58.85	6	1644	-.088	57.92	10	.05	57.92	10
1352	.025	58.07	7	-.41	58.07	7	551	.033	59.62	4	-.16	59.62	4
1353	-.005	58.91	5	-.10	58.91	5	1390	-.002	60.41	4	-.07	60.41	4
505	-.029	58.49	7	-.15	58.49	7	1392	.018	58.87	4	.10	58.87	4
1355	.017	59.35	7	-.20	59.51	7	1393	.001	58.68	4	-.05	58.68	4
1643	-.126	58.18	23	.30	58.18	23	554	.019	58.44	10	.25	58.56	9
1358	.015	58.31	4	.11	58.31	4	1394	-.007	58.59	7	-.14	58.59	7
507	.006	59.30	4	-.05	59.30	4	555	-.009	59.06	6	.26	59.06	6
509	-.017	59.36	4	-.10	59.36	4	557	-.010	58.19	8	.09	58.19	8
1359	-.010	57.80	11	-.06	57.80	11	1395	-.026	58.47	9	.10	58.47	9
511	-.005	58.14	6	.06	58.05	7	1397	-.011	58.64	9	-.15	58.64	9
513	-.016	59.18	5	-.13	59.18	5	1396	-.005	58.23	8	.21	57.89	6
1360	.011	57.87	6	-.18	57.87	6	562	.007	58.32	12	-.11	58.33	11
1362	.001	58.66	10	-.07	58.66	10	563	-.001	58.42	4	.01	58.42	5
517	.016	59.06	4	-.04	59.06	4	565	.077	59.01	5	.25	59.01	5
516	.004	58.17	10	.02	58.17	10	564	-.016	59.78	5	.06	59.78	5
521	-.008	58.65	7	.00	58.65	7	1400	-.010	58.67	4	-.17	58.67	4
1366	-.005	57.96	11	-.03	57.96	11	1401	-.004	58.10	9	-.05	58.10	9
1367	.002	57.92	7	.02	57.92	7	569	-.017	58.27	6	.02	58.27	6
1368	-.003	57.65	7	-.27	57.65	7	1406	-.009	58.59	7	-.24	58.59	7
522	.026	57.79	5	.02	57.79	5	568	.001	59.14	4	.41	59.14	4
524	.025	58.05	11	.30	58.22	10	570	.005	59.33	4	-.28	59.33	4
523	-.015	57.74	5	.02	57.74	5	571	-.018	58.17	7	.12	58.17	7
526	-.010	58.17	5	-.31	58.17	5	572	-.008	58.02	9	.04	58.02	9
525	.005	58.02	10	-.22	58.02	10	1408	-.005	58.26	15	-.21	58.26	15
528	-.008	58.59	7	.06	58.59	7	573	-.005	59.11	6	-.07	59.11	6
527	-.011	59.06	7	-.01	59.18	6	576	-.002	57.98	7	-.17	57.98	7
1370	.019	57.81	7	-.15	57.81	7	1409	-.008	58.51	15	.19	58.51	15
1372	-.013	58.50	9	.15	58.50	9	578	-.011	58.77	6	.17	58.77	6

OBSERVED - FK3R							OBSERVED - FK3R						
FK4 No.	$\Delta\alpha$	Epoch	No.	$\Delta\delta$	Epoch	No.	FK4 No.	$\Delta\alpha$	Epoch	No.	$\Delta\delta$	Epoch	No.
580	-.001	57.76	9	-.18	57.76	9	633	.001	58.88	11	-.19	58.84	10
1412	-.044	57.49	10	-.20	57.49	10	634	.008	58.76	6	-.12	58.65	5
582	.002	57.99	13	-.11	57.99	13	1445	.004	58.68	24	-.07	58.64	24
583	-.013	58.05	6	-.29	58.05	6	1446	.004	59.64	5	-.27	59.64	5
590	.012	58.54	8	.23	58.27	7	635	.008	58.78	7	-.22	58.48	8
587	.016	58.40	4	.50	58.40	4	1448	-.013	59.09	7	-.11	59.09	7
584	.001	60.18	4	-.03	60.18	4	636	-.006	58.30	9	-.10	58.30	9
585	-.009	60.04	5	-.19	60.04	5	1450	-.014	58.68	12	.07	58.62	11
588	-.011	58.78	6	.07	58.78	6	639	-.020	58.85	8	-.04	58.85	8
1645	-.113	57.72	7	-.12	57.72	7	1451	-.003	58.47	23	-.08	58.39	24
1414	-.005	58.13	7	.11	58.13	7	641	.011	59.00	4	-.13	59.00	4
1416	-.004	58.16	11	.01	58.05	10	643	-.022	59.83	6	-.02	59.83	6
591	-.007	58.49	8	-.17	58.49	8	1453	.006	59.01	8	-.04	59.01	8
593	.004	58.62	8	-.06	58.62	8	1454	-.006	59.04	8	-.04	59.04	8
595	-.005	57.65	9	-.06	57.65	9	1456	-.001	59.47	9	-.16	59.47	9
1420	-.014	57.99	20	.09	57.92	19	1458	.002	58.02	12	-.06	58.02	12
598	.015	58.29	13	.00	58.29	13	647	-.003	58.72	9	.04	58.51	8
1421	.027	58.88	6	.01	58.88	6	1459	.000	58.89	10	.03	59.08	9
1422	-.020	57.76	14	-.05	57.78	13	650	-.002	57.46	6	.15	57.46	6
1423	-.014	58.85	5	.41	58.67	4	1460	.017	58.65	7	-.14	58.65	7
601	-.010	59.17	7	.22	59.17	7	653	-.002	57.93	8	-.12	57.93	8
603	.008	58.73	8	.12	58.73	8	655	-.013	59.54	5	.41	59.54	5
606	.020	58.80	25	-.04	58.80	25	657	-.036	59.13	6	.13	59.13	6
1425	-.004	58.11	10	-.25	58.11	10	1462	-.019	59.47	5	.24	59.47	5
605	.011	58.94	9	.19	59.00	10	1461	.005	58.79	7	.17	58.49	6
608	-.022	58.68	5	.28	58.68	5	659	.023	57.92	5	-.23	57.92	5
612	-.033	59.00	13	.44	59.00	13	656	.011	60.23	4	-.09	60.08	5
1427	-.005	58.01	5	-.08	58.01	5	664	.007	58.85	16	-.02	58.85	16
609	-.008	58.66	4	-.27	58.66	4	663	-.016	58.53	8	.18	58.53	8
1428	.017	59.85	5	-.16	59.85	5	665	.011	59.87	14	-.11	59.87	14
1429	-.011	58.50	10	-.21	58.72	9	670	-.003	58.90	7	-.36	58.90	7
613	.005	58.93	4	.22	58.93	4	667	-.035	60.13	6	-.56	60.27	5
614	-.017	59.19	5	.10	59.19	5	668	.002	60.17	6	.14	60.17	6
618	-.003	58.72	8	.05	58.63	7	1465	.013	58.86	5	-.16	58.86	5
619	.009	58.82	13	.26	58.76	12	1466	.010	58.21	11	-.01	58.40	12
1432	.002	58.09	9	-.11	58.09	9	913	-.092	57.96	11	-.14	57.96	11
621	-.026	58.80	6	-.12	58.80	6	675	-.026	58.72	13	.03	58.48	11
623	-.042	59.00	8	-.16	59.17	9	1467	-.015	58.48	13	.07	58.48	13
1433	.003	58.54	13	.15	58.54	13	671	.050	59.28	5	.16	59.28	5
622	-.004	59.26	6	-.23	59.30	7	1468	.003	59.22	6	-.11	59.22	6
1434	-.006	57.81	13	-.06	57.81	13	672	-.009	57.71	7	-.33	57.71	7
626	-.025	58.31	6	-.22	58.19	7	676	.012	59.05	8	-.06	59.05	8
627	-.035	58.05	5	.15	57.95	6	674	-.022	59.36	6	.41	59.36	6
1436	.017	57.60	12	-.16	57.60	12	673	-.027	59.64	9	.42	59.64	9
1438	-.003	58.02	19	.08	58.02	19	1469	-.005	58.39	6	-.09	58.39	6
1440	.008	59.23	5	-.47	58.76	6	677	.007	59.56	16	.10	59.56	16
629	-.001	58.50	4	-.05	58.50	4	680	-.008	58.76	11	-.14	58.76	11
912	.014	58.63	8	.29	58.53	7	681	.010	59.27	7	-.20	59.04	8
1441	.008	59.46	4	-.47	59.46	4	685	.014	58.94	5	.12	58.94	5
1442	.005	58.63	15	.00	58.63	16	684	-.030	59.22	4	.53	59.22	4

OBSERVED - FK 3 R							OBSERVED - FK 3 R						
FK4 No.	$\Delta\alpha$	Epoch	No.	$\Delta\delta$	Epoch	No.	FK4 No.	$\Delta\alpha$	Epoch	No.	$\Delta\delta$	Epoch	No.
1475	.010	57.75	17	.01	57.64	16	1508	.024	59.05	6	.00	59.05	6
1477	.007	59.26	5	.01	59.26	5	1509	-.001	58.14	15	-.09	58.14	15
1476	.000	58.47	18	-.03	58.59	17	733	.009	59.01	7	.33	59.01	7
688	-.002	59.19	8	.01	59.13	7	732	-.005	59.44	7	.23	59.44	7
690	-.013	58.36	7	.17	58.36	7	1510	.014	58.45	7	-.27	58.45	7
914	-.037	58.61	9	.38	58.79	7	1511	.004	58.66	23	.17	58.66	23
695	-.014	58.28	12	.15	58.07	11	737	.007	58.77	13	-.03	58.80	11
1478	.009	59.06	18	-.08	59.10	17	738	-.014	58.36	8	.21	58.36	8
1479	.003	59.27	8	-.13	59.27	8	1513	.011	57.82	16	.23	57.82	16
1480	.005	58.62	14	.03	58.77	14	1515	-.002	58.19	10	-.14	58.19	10
1481	.008	58.47	7	-.06	58.60	8	740	.005	58.88	11	-.02	58.88	11
1646	-.021	58.49	12	.16	58.49	12	741	.001	58.78	11	-.25	58.78	11
700	-.085	58.55	6	-.14	58.55	6	743	.004	59.10	11	-.25	59.10	11
1483	.004	59.04	4	.09	58.89	3	744	-.004	57.98	12	.16	57.98	12
1482	.022	58.47	9	.01	58.47	9	745	.005	58.80	5	.00	58.80	5
1484	.016	57.98	12	.10	57.98	12	746	.031	59.09	6	.21	58.79	5
699	.005	59.53	5	.48	59.53	5	1519	.001	57.93	10	.12	57.93	10
701	-.051	58.36	5	-.16	58.07	6	749	.022	59.46	7	.10	59.46	7
1486	-.020	58.45	11	.15	58.45	11	1521	-.014	59.10	6	-.03	59.10	6
702	-.009	58.14	11	.02	58.14	11	752	-.001	59.25	7	-.05	59.25	7
703	.009	59.07	6	-.21	59.07	6	1523	.014	58.95	8	-.39	58.95	8
1488	-.008	59.23	6	-.38	59.23	6	1524	.014	58.84	17	-.04	58.84	17
1489	.005	57.70	8	.18	57.70	8	1647	-.069	58.15	14	-.16	58.26	13
1491	-.005	59.40	5	.03	59.40	5	1525	.004	59.86	4	.15	59.86	4
1492	-.021	59.06	6	.11	59.06	6	756	.028	58.65	5	-.14	58.65	5
1494	-.002	58.46	9	.10	58.46	9	759	-.035	57.84	8	.02	57.46	7
705	.003	57.89	7	-.31	57.89	7	1526	.015	59.57	4	.08	59.57	4
707	.007	58.19	10	.06	58.14	11	757	-.012	58.03	3	-.08	58.03	3
709	.006	58.40	11	-.18	58.48	10	758	-.027	58.81	5	.27	58.58	4
711	-.025	60.12	5	.26	60.12	5	760	.015	57.93	9	-.44	57.93	9
714	-.054	58.72	6	.25	58.72	6	765	-.005	58.89	7	.08	58.89	7
713	.009	58.49	8	.09	58.49	8	1531	.002	58.64	17	-.16	58.71	15
712	.001	58.91	9	.33	58.91	9	1533	.009	57.65	12	-.11	57.65	12
716	-.010	59.14	6	-.04	59.14	6	1534	.004	59.60	5	.07	59.60	5
717	.003	59.76	10	.05	59.74	11	1535	-.030	59.33	4	-.24	59.33	4
1497	-.023	57.76	17	-.14	57.76	17	767	-.016	57.86	4	.27	58.03	5
1498	.011	58.94	5	.01	58.94	5	1536	-.018	58.66	4	.06	58.64	5
719	.006	58.59	8	.03	58.48	9	1538	-.022	58.50	6	-.10	58.50	6
1500	-.001	58.34	19	.21	58.40	20	768	.002	60.40	5	-.18	60.35	4
723	.012	59.21	6	-.13	59.21	6	1537	.006	58.06	7	.06	58.29	6
724	-.002	58.73	6	-.07	58.73	6	770	-.016	58.53	8	.00	58.50	7
725	.009	58.48	14	-.24	58.48	14	1539	.004	59.10	6	-.26	59.10	6
726	-.019	58.69	6	.05	58.69	6	772	.016	57.97	19	.11	57.97	19
729	-.044	58.85	7	-.25	58.85	7	774	.019	59.43	6	.18	59.43	6
1503	.019	58.44	6	-.08	58.44	6	777	.002	58.71	9	.14	58.60	10
730	.027	60.14	5	-.25	60.14	5	778	-.007	58.75	10	.12	58.75	10
1505	.023	60.31	4	-.15	60.31	4	782	.005	59.09	4	-.16	59.09	4
1506	.009	59.40	5	-.06	59.40	5	780	.002	58.36	4	.24	58.36	4
734	.014	59.60	7	-.01	59.60	7	783	-.006	58.00	5	.09	58.00	5
1507	.013	57.60	5	.39	57.60	5	1541	.026	59.64	4	-.14	59.97	3

OBSERVED - FK3R							OBSERVED - FK3R						
FK4 No.	$\Delta\alpha$	Epoch	No.	$\Delta\delta$	Epoch	No.	FK4 No.	$\Delta\alpha$	Epoch	No.	$\Delta\delta$	Epoch	No.
1544	.028	58.08	4	.24	58.08	4	833	-.003	57.06	5	-.21	57.06	5
781	-.008	60.02	5	.17	60.02	5	834	.006	60.19	13	-.12	60.19	13
1543	.023	58.72	4	-.07	58.72	4	835	-.030	57.53	7	-.04	57.53	7
915	-.067	58.36	17	-.12	58.36	17	837	-.019	58.56	9	.06	58.30	8
1545	.028	58.46	6	-.30	58.46	6	836	.012	58.48	5	.34	58.48	5
1547	.000	58.33	17	-.07	58.34	18	1583	-.022	58.90	7	.14	58.90	7
786	.014	57.58	9	-.24	57.58	8	840	.005	58.48	10	.24	58.48	10
788	-.006	58.68	8	-.20	58.68	8	1648	-.075	59.22	18	.07	59.22	18
1549	.015	58.61	7	-.11	58.61	7	843	.001	57.69	6	-.44	57.69	6
789	.025	58.41	12	.15	58.41	12	842	.006	59.20	6	-.02	59.20	6
1551	-.016	58.14	6	.12	58.14	6	844	.012	59.56	7	.46	59.86	6
792	.002	58.31	8	.07	58.54	7	1585	.007	59.51	8	.02	59.51	8
1553	.006	58.79	7	-.20	58.79	7	1586	.018	59.44	4	-.04	59.44	4
793	.098	59.61	5	-.03	59.61	5	1588	-.017	59.54	4	-.03	59.54	4
795	-.060	58.74	8	.07	58.74	8	1589	-.001	60.14	4	-.11	60.14	4
794	-.006	58.67	7	.06	59.00	6	847	-.032	60.71	4	.36	60.71	4
1555	-.001	58.67	11	-.05	58.67	11	1590	-.018	59.99	4	-.10	59.99	4
797	.012	58.86	10	-.10	58.85	9	1591	-.009	60.52	4	-.08	60.45	3
800	-.003	58.96	16	-.10	58.79	14	848	-.002	59.71	4	.03	59.71	4
1558	-.005	58.37	5	-.02	58.37	5	1593	.067	58.95	4	-.07	58.95	4
1559	-.004	58.39	4	-.23	58.39	4	1594	-.002	58.17	9	.27	58.17	9
803	-.042	57.95	9	.10	57.95	9	850	-.005	59.78	8	.04	59.78	8
1560	-.017	59.66	7	.13	59.66	7	851	.004	59.40	6	-.30	59.40	6
804	-.005	58.10	8	.00	58.10	8	1595	.001	58.75	13	-.29	58.75	13
1564	.010	58.93	10	-.21	58.93	10	853	-.012	58.94	9	-.08	58.83	10
807	-.020	58.02	5	.27	58.02	5	852	-.014	59.42	6	.10	59.42	6
1565	.021	58.28	5	-.04	58.28	5	855	.008	60.29	8	-.12	60.29	8
809	-.038	58.65	5	.06	58.65	5	857	.012	60.23	6	.11	60.13	5
808	-.002	59.47	5	.37	59.47	5	858	-.006	59.17	5	-.02	59.17	5
1568	.003	57.22	5	-.04	57.22	5	1596	-.016	58.46	6	-.12	58.46	6
811	-.003	59.20	5	.05	59.20	5	859	-.007	59.47	7	-.07	59.58	6
1569	.014	59.09	10	.11	59.09	10	1598	-.008	58.15	19	-.10	58.15	19
1570	-.001	59.79	5	-.02	59.79	5	862	-.019	58.84	7	.05	58.84	7
813	-.003	58.88	5	.04	58.88	5	863	.020	58.10	10	.05	58.10	10
817	-.057	58.62	8	-.33	58.62	8	864	.016	60.18	11	.42	60.18	11
815	-.003	60.11	7	-.23	60.11	7	1600	-.037	59.17	4	.09	59.17	4
1571	-.021	59.06	5	-.04	59.06	5	1649	-.077	59.15	19	-.01	59.15	19
818	.006	59.07	6	.40	59.07	6	869	-.010	59.79	5	-.26	59.79	5
1572	-.025	60.26	5	.40	60.26	5	1602	.011	57.60	10	-.22	57.60	10
1574	.013	58.64	6	-.63	58.64	6	870	-.005	59.82	4	-.07	59.82	4
821	-.021	60.10	5	-.21	60.10	5	871	-.018	58.95	4	.23	58.95	4
1575	.005	60.17	7	.27	60.17	7	1603	.004	58.47	13	.10	58.41	14
823	-.007	59.42	7	.21	59.42	7	1604	-.009	57.70	6	.25	57.70	6
1578	.031	59.51	7	-.21	59.51	7	1606	-.012	59.72	8	-.07	59.72	8
1579	.003	59.16	6	.09	59.10	7	875	-.010	59.54	5	-.22	59.54	5
1580	.012	59.00	22	-.03	59.00	22	1607	.007	57.95	6	-.08	57.95	6
826	.002	58.38	12	-.34	58.38	12	1608	.010	58.22	10	.10	58.22	10
827	-.010	60.41	12	-.20	60.41	12	878	.013	59.25	7	.17	59.25	7
830	.040	58.43	5	-.09	58.43	5	1609	.001	58.41	14	.01	57.90	12
831	.001	58.94	7	-.13	58.94	7	880	-.002	60.09	7	-.12	60.09	7

OBSERVED - FK3R							OBSERVED - FK3R						
FK4 No.	$\Delta\alpha$	Epoch	No.	$\Delta\delta$	Epoch	No.	FK4 No.	$\Delta\alpha$	Epoch	No.	$\Delta\delta$	Epoch	No.
1610	.003	58.35	7	.17	58.35	7	1620	.001	58.39	13	-.30	58.39	13
1613	-.024	59.61	6	-.31	59.75	5	1622	-.012	59.37	7	.02	59.37	7
882	-.002	59.15	8	-.09	59.15	8	1623	-.004	59.76	6	.11	59.58	5
881	.002	59.12	4	-.49	59.12	4	895	.048	57.75	7	-.10	57.75	7
884	-.005	58.79	8	.07	58.79	8	897	-.009	59.57	5	-.17	59.30	4
1614	.011	59.72	8	.11	59.84	7	898	.005	59.44	5	-.15	59.44	5
1615	.005	59.93	6	-.07	59.96	5	1625	-.037	59.28	7	-.40	59.28	7
885	-.003	58.71	11	-.21	58.91	10	899	.014	59.58	6	.03	59.58	6
1616	.002	58.76	7	-.09	58.76	7	1627	.062	58.77	7	.25	58.75	5
888	.009	58.94	10	.03	58.94	10	1650	-.150	58.32	10	-.06	58.32	10
890	.008	59.81	5	.11	59.81	5	1628	.000	58.77	5	-.25	58.77	5
891	.015	60.03	4	.48	60.03	4	1629	.000	59.95	5	.05	59.95	5
893	.011	58.48	7	.31	58.78	6	900	-.028	60.58	7	.06	60.57	6
892	.017	58.09	7	.02	58.09	7	902	.002	59.89	7	-.03	59.89	7
1619	-.011	59.37	5	.30	59.78	4	1630	.005	59.26	8	.03	59.26	8
L O W E R C U L M I N A T I O N													
1642	-.248	58.28	9	-.49	58.33	10	659	-.018	60.20	4	-.25	60.20	4
451	-.028	59.54	5	-.01	59.54	5	664	.022	59.10	7	.03	59.10	7
454	.007	58.92	15	-.17	58.94	14	670	-.007	59.11	5	.18	58.61	4
472	-.021	59.26	5	-.26	59.12	4	913	-.295	58.08	7	-.21	58.08	7
478	.032	59.02	5	.42	59.02	5	675	-.014	58.82	7	-.13	58.82	7
486	.041	60.33	4	.03	60.33	4	685	-.027	60.82	4	-.09	60.82	4
499	-.002	58.91	5	.26	59.44	4	914	.042	60.16	5	-.35	59.95	3
500	-.023	58.19	5	.15	58.19	5	695	.054	58.79	4	.03	58.79	4
505	-.024	58.64	4	-.04	58.91	5	1646	.007	58.41	13	-.04	58.41	13
1643	-.148	58.56	11	.22	58.54	10	700	.016	59.70	8	-.06	59.50	7
511	.042	60.01	6	.15	59.71	7	701	.041	58.32	4	.58	58.32	4
521	-.051	59.55	6	.12	59.37	4	1494	-.003	59.19	8	-.29	59.47	7
524	-.058	57.15	5	-.31	57.42	6	714	-.045	59.67	5	-.52	59.40	3
1379	.078	59.19	12	-.29	59.11	11	723	.029	58.53	6	-.08	58.39	5
536	.012	60.37	7	.61	60.79	5	729	.048	59.62	6	-.17	59.62	6
550	-.151	58.92	4	-.25	58.92	4	734	-.003	58.73	12	-.09	58.96	11
1644	.014	58.97	7	-.04	59.14	6	1647	-.172	58.39	15	-.09	58.31	16
554	.070	59.66	5	.66	60.08	4	759	-.024	58.17	10	.03	58.16	11
565	-.019	60.32	4	.03	60.32	4	767	-.011	57.74	8	.06	57.53	7
569	-.023	60.83	4	.00	60.83	4	1538	-.029	58.70	8	-.19	58.70	8
590	-.009	59.42	7	-.08	59.42	7	770	.019	58.85	8	.11	58.88	6
587	.081	60.88	4	.64	60.86	3	783	-.028	58.80	5	-.26	58.80	5
1645	-.048	58.97	5	-.35	58.97	5	915	-.098	59.19	12	-.26	59.03	13
606	-.001	60.68	10	-.44	60.71	8	795	-.008	59.70	7	-.10	60.31	5
612	-.051	59.38	9	.03	59.17	8	803	-.003	57.88	8	.32	57.93	6
619	.001	59.59	7	.41	59.52	6	809	-.060	58.73	6	.39	59.21	5
1432	.023	59.97	5	.41	60.68	4	817	.038	59.07	6	-.12	59.07	6
623	.027	58.91	9	-.29	58.91	9	1572	.024	59.70	6	.63	59.41	5
912	-.045	58.61	6	-.10	58.61	6	1578	.028	58.43	6	-.09	58.43	6
639	.023	59.18	6	.10	59.18	6	830	.000	59.09	10	.17	59.17	9

OBSERVED - FK3R							OBSERVED - FK3R						
FK4 No.	$\Delta\alpha$	Epoch	No.	$\Delta\delta$	Epoch	No.	FK4 No.	$\Delta\alpha$	Epoch	No.	$\Delta\delta$	Epoch	No.
837	.021	59.41	7	-.34	59.42	6	182	.009	58.87	6	.61	58.73	5
1648	-.183	59.19	17	-.20	59.19	17	1637	-.202	58.21	12	.09	58.31	13
1593	.022	56.65	7	.22	56.65	7	191	-.008	58.33	14	-.12	58.33	14
1594	.064	59.37	7	-.20	59.37	7	203	-.026	58.87	6	.33	58.87	6
851	-.052	59.61	6	-.31	59.69	5	205	.022	58.76	7	.06	59.05	5
853	-.001	57.87	5	.22	57.87	5	1638	-.229	58.64	11	-.12	58.64	11
863	.010	59.77	6	-.05	59.88	5	233	.009	58.30	10	.20	58.30	10
1649	-.011	58.39	11	-.51	58.20	10	234	-.050	59.69	6	-.15	59.69	6
882	.023	58.57	8	.29	58.99	6	247	-.012	59.30	5	-.06	59.30	5
893	.042	57.78	19	.02	57.78	19	248	.021	58.58	18	-.14	58.47	17
895	-.055	58.07	4	.09	58.07	4	259	-.001	57.92	6	-.08	57.92	6
1627	.127	60.30	5	-.01	60.30	5	260	.017	58.89	10	-.42	59.10	8
1650	-.114	58.03	18	-.32	58.03	18	909	-.538	57.61	11	-.28	57.61	11
16	.001	57.68	6	.38	57.34	5	284	.050	59.30	6	-.36	59.04	5
24	.036	58.15	4	.02	58.15	4	300	.065	57.64	9	-.37	57.77	8
29	.039	57.79	5	.39	57.79	5	302	.082	58.13	5	1.05	58.13	5
32	.087	60.07	4	.80	60.07	4	1639	-.113	58.63	11	-.15	58.63	11
906	-.127	58.03	16	-.22	58.03	16	1215	-.021	59.59	4	.34	59.59	4
41	.071	58.94	10	.06	58.94	10	310	.005	58.98	13	-.38	58.86	12
46	.043	58.15	4	-.23	58.15	4	317	.030	59.01	5	.39	59.13	6
48	.001	59.35	4	-.08	59.35	4	322	.082	57.70	5	.05	57.70	5
1042	-.016	57.58	4	-.44	57.58	4	338	-.004	59.03	5	.16	58.81	6
51	-.038	58.37	6	.22	58.18	5	1640	-.077	58.31	14	.28	58.31	14
55	.002	59.59	4	.30	59.59	4	355	.015	60.59	4	.47	60.59	4
907	-.007	57.21	12	-.18	57.19	11	910	-.048	59.36	12	-.25	59.36	12
63	.016	59.35	4	.37	59.35	4	357	.022	58.84	5	.22	58.84	5
70	.020	60.10	4	-.03	60.10	4	363	.063	59.68	6	.06	59.68	6
1635	-.191	58.60	13	-.15	58.62	12	372	-.052	59.20	6	-.31	59.20	6
76	.028	59.60	5	.25	59.65	4	1262	.007	59.78	5	-.25	59.78	5
87	-.053	57.60	5	.27	57.60	5	387	.020	59.30	4	.27	59.30	4
92	-.033	60.39	4	-.11	60.39	4	911	-.096	58.09	11	-.35	58.02	10
105	.077	59.35	8	.24	59.15	6	395	.016	59.41	12	-.41	59.28	11
115	.076	58.43	6	.51	58.43	6	403	-.006	58.21	8	.19	58.12	7
1636	-.344	57.68	8	-.12	57.68	8	413	.066	58.46	9	-.06	58.46	9
1096	.002	59.44	4	.23	59.12	3	417	-.025	60.28	6	.65	60.28	6
129	-.005	58.05	7	.56	58.16	6	1641	.066	59.47	8	.10	59.34	10
138	-.067	59.95	4	.03	59.95	4	429	.012	58.93	6	.59	58.66	8
908	-.367	58.18	16	-.21	58.32	17	433	-.016	59.60	4	-.02	59.60	4
1122	-.018	57.97	6	.38	57.97	6	440	.051	59.57	5	.12	59.57	5
173	-.038	59.33	11	-.39	59.60	10	1303	.032	60.35	5	.45	60.35	5
178	-.043	59.67	5	.40	59.67	5							

Please note the list of corrections to the Ottawa catalogue (Pub. D.O. Vol. XXV, No. 9) as detected and compiled by Robert B. Hanson of the U.S. Naval Observatory.

CANADA
DEPARTMENT OF ENERGY, MINES AND TECHNICAL SURVEYS
Observatories Branch

E.G. Woolsey
Astronomy Division

LIST OF CORRECTIONS TO OTTAWA CATALOGUE (VOL. XXV, NO. 9)

PART II

The BD zone numbers for the following Ottawa Star numbers should be NEGATIVE:

5	93	193	280	350	411	527	644	729	913	1055
12	108	203	286	352	417	549	662	793	930	1066
22	124	221	290	367	438	576	675	804	934	1084
52	132	226	291	374	442	599	680	825	974	1088
62	134	229	301	385	446	612	697	842	976	1100
80	155	236	311	390	459	631	701	875	994	1116
81	162	271	324	403	491	638	704	885	1012	1136
87	182	278	332	406	502	640	719	911	1044	

PART IV

OTTAWA NO.			BD. NO.			OTTAWA NO.			BD. NO.		
	FOR		READ			FOR		READ			
33	2°	44	2°	422	135	61°	160	61°	1591		
44	31°	66	31°	642	136	2°	319	2°	3118		
54	60°	84	60°	768	138	31°	292	31°	2884		
90	37°	138	37°	1380	140	14°	327	14°	3207		
94	22°	125	22°	1241	149	71°	97	71°	889		
107	10°	122	10°	1220	151	58°	189	58°	1809		
112	58°	100	58°	982	157	44°	327	44°	3234		
121	6°	209	6°	2036	159	69°	107	69°	1070		
123	31°	197	31°	1907	163	52°	259	52°	2572		
124	67°	64	67°	577	182	14°	445	14°	4369		
125	37°	201	37°	1965	183	35°	433	35°	4267		
126	20°	253	20°	2467	193	59°	237	59°	2334		
128	11°	242	11°	2348	194	37°	424	37°	4240		
131	14°	277	14°	2770	204	24°	449	24°	4463		
132	27°	248	27°	2417	246	74°	106	74°	1006		
134	26°	274	26°	2722	249	30°	505	30°	4978		