PART II.

OBSERVATIONS
OF
EROS AND REFERENCE STARS
WITH THE
NINE-INCH TRANSIT CIRCLE.
1900-1901.

BY
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INTRODUCTION.

By THEO I. KING.

The primary list of "Étoiles de repère pour les observations d'Éros," issued as Circular No. 4 of the Conférence Astrophotographique Internationale, of July, 1900, was received at the United States Naval Observatory September 12, 1900. The Astronomical Director detailed Mr. THEO I. KING, Assistant Astronomer, to observe the stars of this list with the 9-inch transit circle. All transits and bisections were taken by Mr. KING, on fifty-six nights, the asteroid itself being included thirty-three times. Observations extended from September 16, 1900, to January 29, 1901. Settings were made and microscopes read by an assistant, three different computers being assigned to this duty during the four and a half months. Mr. WM. M. BROWN served on eight nights, Mr. E. A. BOEGER on eighteen nights, and Mr. JOHN C. HAMMOND on thirty nights. The assistant also read the barometer and thermometers, and made the record for some of the zero stars, but on nearly every night the greater part of the recording was done by Mr. ROY Y. FERNER.

For a description of the instruments employed consult Publications of the United States Naval Observatory, Second Series, Volume I, pages vii et seq. of the Introduction, and also volumes of the previous series. The reticule comprises one movable and twenty-three fixed vertical threads; also six movable and two fixed horizontal threads. The last-named pair are 8".6 apart, and mark the middle of the field. The intervals of the fixed vertical threads for the period in question are given in Table A. It is to be remembered that the spider lines are reversed by change of clamp, the letters and numerals being applied to the threads in the order in which they are reached by a star at upper culmination. Observations through November 12 were made with the clamp west; after that date with the clamp east. The intervals between the movable horizontal threads attached to the micrometer are shown by Table F, distances being reckoned from an imaginary line midway between the pair of spider lines known as the double threads, which are about 7".5 apart. The table is designed to furnish the correction for inclination of the zenith distance threads and for distance from the mean thread at which bisections are made.

There is an average difference between the mean of the observations in the two positions of the telescope amounting to

$$+0^s.094 \text{ in } \alpha. \quad \text{Clamp East—Clamp West,}$$

and

$$-0''.32 \text{ in } \delta. \quad \text{Clamp East—Clamp West.}$$

It is suspected that this difference may be attributed in whole or in large part to the unsymmetrical illumination of the field, though the unequal wearing of the

pivots might account for some of it. The reduced positions would necessarily be affected by one-half the error thus occasioned. The influence of the unsymmetrical illumination was clearly shown by grouping according to the magnitude of the star the differences between the reduced right ascensions in the two positions of the axis, and then platting the form of the correction from the averages of the different magnitudes. As a result of this discussion the corrections given in Table J have been applied to the collected positions.

The observer's plan contemplated four observations of each star, two with the clamp east and two with the clamp west. There were also added to the list six stars, four of them having been used by Mr. GEORGE K. LAWTON in observing the asteroid with the 26-inch equatorial at this Observatory. The list was divided into twelve sets, but, owing to the unusually large percentage of bad nights, and to the loss of several good ones from unforeseen causes, it became necessary during the latter half of the work to condense the earlier stars into fewer nights in order to avert the danger of losing some of them in the twilight. An element of haste was thus introduced which at times called for great rapidity of manipulation, and also necessitated the continuance of work on very unfavorable nights. These unfortunate circumstances appear to have slightly affected the accuracy of the observations, as may be seen from the probable errors of an individual observation, which are $0^s.029 \sec \delta$ in right ascension, and $0''.36$ in declination.

For fundamental stars the scheme adopted was to select two groups of four stars each from NEWCOMB'S Catalogue of Fundamental Stars, Volume VIII, Part II, Astronomical Papers of the American Ephemeris, preference being given to those stars the apparent places of which are contained in the American Ephemeris or Berliner Jahrbuch. One group preceded the list stars in right ascension, the other followed; the average declination of each group was not materially different from that of the list stars. These groups were sometimes modified on account of clouds, and for other reasons; moreover, on nights when Eros was observed, one or more additional zero stars were taken as near to the right ascension of the planetoid as the list stars would allow. Observations of 6 Ursæ Minoris, s. p., and of α Ursæ Minoris were made on thirty-five nights, and two stars of small declination, to be used in reducing them and as a check upon the clock rate, were added near the beginning and also near the end of every night's work. As the position of the azimuth mark deduced from the above will be included in the next volume of the Publications of the United States Naval Observatory devoted to the Sun, Moon, Planets, and Miscellaneous Stars, the record of this portion of the observations is not reproduced here. The number of observations of each zero star is shown in Table K. Not including the circumpolars and south stars, there were 434 zero star observations, 1,361 observations of list stars, and 33 observations of Eros. The list stars extended from $1^h 24^m 0^s$ to $2^h 49^m 29^s$ in right ascension, and from $+37^\circ 23' 5''$ to $+55^\circ 22' 45''$ in declination.

The method of observing the zero stars and Eros comprised transits over the eleven fixed vertical threads in the middle of the reticule, and four micrometer measures with the movable horizontal threads of the distance from the imaginary reference line when the object successively reached I, II, VI, and VII. Transits of the list stars were usually obtained over nine of the fixed vertical threads, with two

measures by the zenith distance micrometer. These transits were taken preferably over the middle threads with bisections at III and V, but a considerable number of observations were secured having bisections at I and III (or II), with transits over the remainder of the first eleven threads; a few were made with bisections at V and VII, and with transits over the remainder of the last eleven wires. The bisections were registered by a ROGERS attachment, having four levers; for list stars only two levers were used, except in very close sequences, when either four levers were employed or else the head was read immediately after bisecting. The two levers farthest from the plate have lost motion which may amount to as much as 0.005 of a revolution, or 0".1, while the other two levers have about half as much. As the observer was careful that the bisections should always be made when drawing the threads toward the micrometer head, this error is probably eliminated. Another possible source of error arose from the absence of the disk designed to prevent the projecting lever ends from being displaced by the fingers of the observer; in cold weather especially, when the fingers were numb, or partially gloved, one or more levers could be moved without being noticed. A number of readings were suspected and rejected for this reason, in addition to those cases in which the observer's sense of touch apprised him that the lever had been disturbed.

All stars, as well as Eros, were taken with the observer's head south, even when the object was south of the zenith. This statement of course does not include the four stars of small declination which were included in each night's work, but which are not reduced in this volume.

The collimation constant was determined precisely as described in the volumes before referred to. The level constant was deduced from readings with the hanging spirit level. The azimuth constant was derived by measuring the micrometer distance of the image of the azimuth mark from the middle thread of the reticule, and combining it with the adopted position of the mark, according to the following formulæ:

Let Z = zenith distance north of mark = $93^{\circ} 38'$;
 A_m = azimuth of mark;
 D_m = micrometer distance of mark from middle thread in reticule, positive when mark appears west;
 S = micrometer distance of vertical thread of south collimator east of middle thread in reticule;
 N = micrometer distance of intersection of threads of north collimator east of middle thread in reticule;
 M = value in seconds of time of one revolution of right ascension micrometer screw;
 b = level constant of instrument;
 a = azimuth constant of instrument.

Then $A_m \sin Z = -D_m M + a \sin Z - b \cos Z - \frac{S+N}{2} M$,

$A_m = a - 0.641 (2D_m + S + N - 0.1b)$.

Let $K = 0.641 (2D_m + S + N - 0.1b)$.

Therefore $A_m = a - K$,

And $a = A_m + K$.

The position of the mark is regarded as constant for limited periods, and is ascertained by observations of circumpolars. Table B exhibits the positions of the

mark deduced from each observation, and also the adopted values for the different periods. The constants of collimation, level, and azimuth are collated in Table C for the whole time.

The reflection of the middle wire over the mercury was observed every night; the value of the level deduced therefrom served as a check upon the constant derived from the hanging spirit level. The correction to the zenith point from these nadir observations was not employed in the reductions, the list stars being referred to the equator point computed from the zero stars.

The directions to the assistant required him to set the telescope with a downward tangential motion on a two-minute division of the circle, and to complete the setting with the tangent screw so that microscope I, clamp east, or microscope V, clamp west, would read $10''.0$. This course insured uniformity of setting, and obviated the necessity of applying any correction for error of runs. The division errors of the circle employed were discussed in an Appendix to the volume of the Washington Observations for 1865, but no correction has been applied in these reductions. As the stars observed are within 20° of the zenith, the correction for flexure is negligible; see pages XVII-XVIII of the Introduction to the Publications of the United States Naval Observatory, Second Series, Volume I.

The tables used in reducing the observations are reproduced on the pages immediately following. Pages B 3 to B 49 contain the observations and reductions in chronological order. The first column is for convenience of reference. The second column gives the name of the star. The third specifies the number of threads used in deducing the *Mean Thread* found in column 4. A very few threads have been rejected which, for declinations under 45° , showed a difference exceeding $0''.1$ from any other thread, or $0''.2$ from the mean of the others; and for declinations over 45° , exceeding $0''.12$ from any other thread, or $0''.25$ from the mean of the others. The fifth column contains the value of the correction $Aa+Bb+Cc$ in MAYER'S formula for the reduction of transit observations. In column 6, opposite each fundamental star, is given in heavy-faced figures its clock correction, and opposite each list star in the usual font the interpolated clock correction as computed from Table D. Combination of the quantities of columns 4, 5, and 6 produces the *Apparent Right Ascension*, printed in column 7. Column 8 gives the quantity obtained by means of the BESSELIAN star-numbers to reduce the previous column to the mean place for the epoch 1900.0. For the declinations, column 9 records the setting of the circle and the mean of the four microscope readings. The tenth and eleventh columns contain the readings of the micrometer head for each bisection; column 12 indicates the zenith distance thread employed whenever the bisections were not made between the double threads. The thirteenth column gives the refraction, computed by means of the BESSEL-COFFIN tables, edited by Professor J. R. EASTMAN; the data for this computation are given on the lower left-hand corner of each page. The *Apparent Declination* of column 14 is obtained by applying to the quantity of column 9: (1) the micrometer readings transformed into arc, using Table E; (2) the reduction to meridian by Table G; (3) the inclination and thread for unsymmetrical bisections from Table F; (4) the refraction of column 13; and, (5) the equator point, given at the lower right-hand

corner of the page, as well as in Table H. The equator point was regarded as constant during each date for all but sixteen nights, on which it was interpolated, the time printed being the mean of the sidereal clock times of the transits of the zero stars. The fifteenth column gives the quantity obtained by means of the BESSELIAN star-numbers to reduce the quantity of the previous column to the mean place for the epoch 1900.0.

Parentheses inclose matter which has been supplied as not existing in the original record or is the result of change from the original record.

The observed positions, combined with the reductions to 1900.0 and the corrections of Table J, are collected for each star on pages B 53 to B 66. The means of the positions of each star for 1900.0, and the number of observations upon which they are based, are given on pages B 67 to B 69. The apparent positions of Eros are brought together on page B 69.

TABLE A.—*The Equatorial Thread Intervals.*

Designation.		Reduction to		
Cl. W.	Cl. E.	c ₃ .	Mean of b, c and d.	Log.
I	VII	^s 37.0576	^s 37.0900	1.569257
a ₁	e ₅	32.4622	32.4946	1.511811
a ₂	e ₄	30.5110	30.5434	1.484917
a ₃	e ₃	28.7214	28.7538	1.458695
a ₄	e ₂	26.9368	26.9692	1.430868
a ₅ II	e ₁ VI	24.6816	24.7140	1.392943
b ₁ III	d ₃ V	12.3570	12.3894	1.093050
b ₂	d ₂	9.6948	9.7272	0.987988
b ₃	d ₁	8.1947	8.2271	0.915247
c ₁	c ₅	4.1308	4.1632	0.61943
c ₂	c ₄	2.0581	2.0905	0.32025
c ₃ IV	c ₃ IV	0.0000	*0.0324	*8.5105
c ₄	c ₂	2.1510	2.1186	0.32605
c ₅	c ₁	4.1757	4.1433	0.61735
d ₁	b ₃	8.2692	8.2368	0.915759
d ₂	b ₂	9.8074	9.7750	0.990117
d ₃ V	b ₁ III	12.3888	12.3564	1.091892
e ₁ VI	a ₅ II	24.7149	24.6825	1.392389
e ₂	a ₄	26.8296	26.7972	1.428089
e ₃	a ₃	28.7388	28.7064	1.457979
e ₄	a ₂	30.6086	30.5762	1.485384
e ₅	a ₁	32.3637	32.3313	1.509623
VII	I	37.0787	37.0463	1.568745

* Has same sign as quantities above it.

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NINE-INCH TRANSIT CIRCLE.

TABLE B.—*The Azimuth of the North Meridian Mark.*

Date.	Azimuth Star.	a	K	A_m	Date.	Azimuth Star.	a	K	A_m
1900	CLAMP WEST.	s	s	s	1900	CLAMP EAST.	s	s	s
Sept. 16.5	6 Urs. Min., S. P.	+0.076	+0.900	-0.824	Nov. 19.3	6 Urs. Min., S. P.	+0.095	+1.026	-0.931
16.5	α Urs. Min.	-0.040	+0.900	-0.940	19.3	α Urs. Min.	+0.085	+1.026	-0.941
18.5	6 Urs. Min., S. P.	-0.159	+0.712	-0.871	22.3	6 Urs. Min., S. P.	+0.081	+0.990	-0.909
18.5	α Urs. Min.	-0.074	+0.712	-0.786	22.3	α Urs. Min.	+0.066	+0.990	-0.924
19.5	6 Urs. Min., S. P.	-0.114	+0.725	-0.839	27.3	6 Urs. Min., S. P.	+0.160	+1.101	-0.941
19.5	α Urs. Min.	-0.056	+0.725	-0.781	27.3	α Urs. Min.	+0.165	+1.101	-0.936
24.5	6 Urs. Min., S. P.	-0.232	+0.636	-0.868	30.3	6 Urs. Min., S. P.	+0.289	+1.226	-0.937
24.5	α Urs. Min.	-0.131	+0.636	-0.767	30.3	α Urs. Min.	+0.271	+1.226	-0.955
26.5	6 Urs. Min., S. P.	-0.129	+0.763	-0.892	Dec. 5.3	6 Urs. Min., S. P.	+0.294	+1.183	-0.889
26.5	α Urs. Min.	-0.087	+0.763	-0.850	5.3	α Urs. Min.	+0.267	+1.183	-0.916
Oct. 6.5	6 Urs. Min., S. P.	-0.014	+0.829	-0.843	6.3	6 Urs. Min., S. P.	+0.349	+1.174	-0.825
6.5	α Urs. Min.	-0.022	+0.829	-0.851	6.3	α Urs. Min.	+0.358	+1.174	-0.816
7.5	6 Urs. Min., S. P.	-0.048	+0.788	-0.836		Adopted value.			-0.856
7.5	α Urs. Min.	-0.010	+0.788	-0.798	11.3	6 Urs. Min., S. P.	+0.420	+1.350	-0.930
9.5	6 Urs. Min., S. P.	-0.135	+0.774	-0.909	11.3	α Urs. Min.	+0.478	+1.350	-0.872
9.5	α Urs. Min.	-0.077	+0.774	-0.851	13.3	6 Urs. Min., S. P.	+0.319	+1.252	-0.933
10.5	6 Urs. Min., S. P.	-0.182	+0.686	-0.868	13.3	α Urs. Min.	+0.342	+1.252	-0.910
10.5	α Urs. Min.	-0.110	+0.686	-0.796	19.3	6 Urs. Min., S. P.	+0.448	+1.249	-0.801
11.5	6 Urs. Min., S. P.	-0.138	+0.772	-0.910	19.3	α Urs. Min.	+0.400	+1.249	-0.849
11.5	α Urs. Min.	-0.091	+0.772	-0.863	21.3	6 Urs. Min., S. P.	+0.448	+1.329	-0.881
15.5	6 Urs. Min., S. P.	-0.159	+0.711	-0.870	21.3	α Urs. Min.	+0.445	+1.329	-0.884
15.5	α Urs. Min.	-0.114	+0.711	-0.825	26.3	6 Urs. Min., S. P.	+0.388	+1.300	-0.912
16.5	6 Urs. Min., S. P.	-0.112	+0.719	-0.831	26.3	α Urs. Min.	+0.435	+1.300	-0.865
16.5	α Urs. Min.	-0.070	+0.719	-0.789	27.3	6 Urs. Min., S. P.	+0.436	+1.396	-0.960
17.4	6 Urs. Min., S. P.	-0.113	+0.755	-0.868	27.3	α Urs. Min.	+0.465	+1.396	-0.931
19.4	6 Urs. Min., S. P.	-0.080	+0.706	-0.786					
19.4	α Urs. Min.	-0.075	+0.706	-0.781	1901				
20.4	6 Urs. Min., S. P.	-0.026	+0.757	-0.783	Jan. 3.2	6 Urs. Min., S. P.	+0.459	+1.324	-0.865
20.4	α Urs. Min.	+0.026	+0.757	-0.731	3.2	α Urs. Min.	+0.424	+1.324	-0.900
	Adopted value.			-0.835	4.2	6 Urs. Min., S. P.	+0.531	+1.401	-0.870
21.4	6 Urs. Min., S. P.	-0.106	+0.769	-0.875	4.2	α Urs. Min.	+0.472	+1.401	-0.929
21.4	α Urs. Min.	-0.035	+0.769	-0.804	9.2	6 Urs. Min., S. P.	+0.368	+1.326	-0.958
24.4	6 Urs. Min., S. P.	+0.037	+0.814	-0.777	9.2	α Urs. Min.	+0.419	+1.326	-0.907
24.4	α Urs. Min.	+0.030	+0.814	-0.784	*12.7	α Urs. Min., S. P.	+0.544	+1.259	-0.715
26.4	6 Urs. Min., S. P.	-0.030	+0.762	-0.792	*14.9	δ Urs. Min.	+0.443	+1.260	-0.817
26.4	α Urs. Min.	+0.019	+0.762	-0.743	†18.4	δ Urs. Min., S. P.	+0.465	+1.359	-0.894
27.4	6 Urs. Min., S. P.	-0.038	+0.789	-0.827	†18.4	51 H. Cephei.	+0.401	+1.359	-0.958
27.4	α Urs. Min.	-0.026	+0.789	-0.815	*19.2	α Urs. Min.	+0.402	+1.337	-0.935
29.4	6 Urs. Min., S. P.	-0.008	+0.787	-0.795	†28.3	δ Urs. Min., S. P.	+0.498	+1.424	-0.926
29.4	α Urs. Min.	-0.026	+0.787	-0.813	†28.3	51 H. Cephei.	+0.481	+1.424	-0.943
30.4	6 Urs. Min., S. P.	-0.026	+0.777	-0.803	*29.4	δ Urs. Min., S. P.	+0.653	+1.430	-0.777
30.4	α Urs. Min.	-0.023	+0.777	-0.800		Adopted value.			-0.889
Nov. 5.4	6 Urs. Min., S. P.	-0.155	+0.768	-0.923					
5.4	α Urs. Min.	-0.070	+0.768	-0.838					
9.4	6 Urs. Min., S. P.	+0.084	+0.917	-0.833					
9.4	α Urs. Min.	+0.080	+0.917	-0.837					

* Observer, Mr. E. A. BOEGER.

† Observer, Professor W. S. HARSHMAN.

TABLE C. — *The Adopted Values of the Collimation, Level and Azimuth Constants.*

Date.	Sidereal Hour.	c.	b.	a.	Date.	Sidereal Hour.	c.	b.	a.
1900					1900				
Sept. 16	^h 0.6— ^h 3.4	^s —0.009	^s —0.400	^s +0.094	Dec. 5	^h 0.6— ^h 3.6	^s +0.104	^s —0.162	^s +0.344
18	0.6—3.4	—0.022	—0.278	—0.085	6	0.6—3.6	+0.133	—0.136	(*)
19	0.6—3.4	—0.047	—0.223	—0.086	6	0.0 ...	.....	.....	+0.318
23	0.6—3.4	+0.002	—0.282	—0.110	6	2.9 ...	.....	.....	+0.415
24	0.6—3.4	—0.002	—0.321	—0.154	10	0.6—3.6	+0.098	—0.063	+0.420
25	0.6—3.4	—0.004	—0.357	—0.095	11	0.6—1.6	+0.100	—0.070	+0.461
26	0.6—3.4	+0.005	—0.354	—0.078	12	0.6—3.1	+0.112	—0.022	+0.455
27	0.6—3.4	+0.002	—0.382	—0.102	13	0.6—3.1	+0.101	(*)	+0.384
Oct. 6	0.6—3.4	+0.008	—0.381	—0.010	13	0.2 ...	.....	—0.183	.....
9	0.6—3.4	—0.044	—0.185	—0.058	13	3.2 ...	.....	—0.073	.....
10	0.6—3.4	—0.036	—0.149	—0.094	14	0.6—3.4	+0.108	—0.068	+0.386
11	0.6—3.4	—0.016	—0.200	—0.040	19	0.6—3.3	+0.154	—0.092	+0.389
15	0.6—3.4	—0.008	—0.238	—0.108	20	0.6—3.3	+0.160	—0.078	+0.396
16	0.6—3.4	—0.014	—0.198	—0.080	21	0.6—3.3	+0.197	—0.048	+0.438
19	0.6—3.4	—0.080	—0.162	—0.118	26	0.6—3.3	+0.152	—0.108	+0.448
20	0.6—3.4	—0.046	—0.123	—0.066	27	0.6—3.3	+0.168	—0.064	+0.492
21	0.6—3.4	—0.030	—0.184	—0.064	28	0.6—3.1	+0.122	—0.068	+0.425
24	0.6—3.4	—0.020	—0.234	—0.038	1901				
26	0.6—3.4	—0.040	—0.215	—0.080	Jan. 1	0.6—3.1	+0.150	—0.015	+0.394
27	0.6—3.4	—0.036	—0.255	—0.044	2	1.2—3.3	+0.151	—0.037	+0.463
29	0.6—3.4	—0.041	—0.140	—0.054	3	0.6—3.1	+0.142	—0.026	(*)
Nov. 4	1.9—3.0	—0.030	—0.228	—0.007	3	0.1 ...	.....	.....	+0.435
5	0.6—3.4	—0.041	—0.154	—0.060	3	2.4 ...	.....	.....	+0.533
9	0.6—3.4	—0.068	—0.072	+0.078	4	0.6—3.1	+0.138	+0.030	+0.507
11	1.7—3.0	—0.044	—0.062	+0.133	7	1.9—3.1	+0.136	—0.029	+0.478
12	0.6—3.4	—0.056	—0.056	+0.146	8	0.6—3.1	+0.158	—0.102	+0.444
17	0.8—2.7	+0.049	—0.256	+0.197	9	0.6—2.2	+0.146	—0.114	+0.438
21	0.6—2.8	+0.072	—0.358	+0.179	15	0.6—3.1	+0.134	—0.114	+0.360
22	0.6—3.4	+0.074	—0.375	(*)	16	0.8—3.1	+0.121	—0.134	+0.313
22	1.1 ...	.....	.....	+0.133	18	1.2—3.1	+0.140	+0.027	+0.440
22	2.9 ...	.....	.....	+0.213	22	1.7—3.2	+0.150	—0.092	+0.392
27	0.6—3.4	+0.068	—0.248	+0.256	29	1.7—3.1	+0.145	+0.002	+0.565
30	0.6—3.6	+0.100	—0.232	+0.390					

*Interpolated; data on next two lines.

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NINE-INCH TRANSIT CIRCLE.

TABLE D.—*The Adopted Corrections and Rates of the Sidereal Clock, Howard, No. 404.*

Date.	Sidereal Hour.	Clock Correction.	Hourly Rate.	Date.	Sidereal Hour.	Clock Correction.	Hourly Rate.
1900	h	s	s	1900	h	s	s
Sept. 16	1. 090	—11. 230	—0. 0422	Nov. 22	1. 030	—26. 670	+0. 0289
	3. 223	—11. 320			3. 168	—26. 608	
18	1. 153	—11. 683	—0. 0145	27	1. 030	—26. 255	—0. 0220
	3. 158	—11. 712			3. 168	—26. 302	
19	1. 030	—11. 950	—0. 0282	30	1. 030	—27. 308	—0. 0253
	3. 158	—12. 010			3. 168	—27. 362	
23	0. 947	—13. 383	—0. 0538	Dec. 5	1. 030	—29. 488	—0. 0196
	3. 158	—13. 502			3. 168	—29. 530	
24	1. 030	—13. 742	—0. 0132	6	1. 030	—30. 058	+0. 0248
	3. 158	—13. 770			3. 168	—30. 005	
25	1. 030	—14. 035	—0. 0484	10	1. 032	—32. 392	—0. 0169
	3. 158	—14. 138			3. 168	—32. 428	
26	1. 030	—14. 490	+0. 0103	11	1. 032	—32. 972	* 0. 0000
	3. 158	—14. 468		12	1. 035	—33. 870	—0. 0259
27	1. 030	—14. 612	+0. 0221		2. 885	—33. 918	
	3. 158	—14. 565		13	1. 035	—34. 462	—0. 0800
Oct. 6	1. 030	—17. 842	—0. 0132		2. 735	—34. 598	
	3. 158	—17. 870		14	1. 035	—35. 168	—0. 0047
9	1. 030	—18. 715	+0. 0002		3. 168	—35. 178	
	3. 160	—18. 710		19	1. 035	—39. 838	—0. 0020
10	1. 030	—19. 145	—0. 0282		3. 028	—39. 842	
	3. 160	—19. 205		20	0. 940	—40. 447	+0. 0043
11	1. 030	—19. 950	—0. 0385		3. 028	—40. 438	
	3. 162	—20. 032		21	1. 038	—41. 098	—0. 0010
15	1. 030	—23. 388	—0. 0173		3. 028	—41. 100	
	3. 165	—23. 425		26	1. 038	—42. 870	—0. 0241
16	1. 090	—24. 123	—0. 0381		3. 028	—42. 918	
	3. 165	—24. 202		27	1. 038	—43. 070	—0. 0151
19	1. 030	—25. 398	—0. 0019		3. 028	—43. 100	
	3. 168	—25. 402		28	† 1. 760	† —43. 401	† +0. 0383
20	1. 030	—25. 558	+0. 0061	1901			
	3. 168	—25. 545		Jan. 1	1. 040	—44. 968	+0. 0094
21	1. 030	—25. 688	+0. 0028		2. 735	—44. 952	
	3. 168	—25. 682		2	1. 776	—45. 012	+0. 0080
24	1. 030	—25. 120	+0. 0164		3. 028	—45. 002	
	3. 168	—25. 085		3	1. 040	—45. 232	+0. 0252
26	1. 030	—24. 545	—0. 0164		2. 510	—45. 195	
	3. 168	—24. 580		4	1. 040	—45. 608	—0. 0096
27	1. 030	—24. 192	—0. 0061		2. 498	—45. 622	
	3. 168	—24. 205		7	2. 095	—47. 052	+0. 1176
29	1. 030	—23. 985	+0. 0351		2. 937	—46. 953	
	3. 165	—23. 910		8	1. 040	—47. 125	—0. 0401
Nov. 4	2. 590	—22. 378	* 0. 0000		2. 535	—47. 185	
	3. 165	—22. 335		9	1. 040	—47. 488	—0. 2000
5	1. 030	—22. 420	+0. 0220		1. 990	—47. 678	
	3. 165	—22. 512		15	1. 040	—48. 798	0. 0000
9	1. 030	—22. 935	—0. 0431		2. 602	—48. 798	
	3. 165	—22. 935		16	1. 282	—48. 948	+0. 0220
11	1. 945	—23. 000	—0. 0763		2. 552	—48. 920	
	2. 797	—23. 195		18	1. 465	—49. 228	—0. 0333
12	1. 030	—23. 230	—0. 0164		2. 937	—49. 277	
	3. 165	—23. 230		22	1. 992	—51. 238	—0. 0549
17	1. 153	—25. 573	—0. 0296		2. 940	—51. 290	
	2. 300	—25. 607		29	1. 992	—55. 388	—0. 0338
21	1. 028	—26. 872	—0. 0166		2. 940	—55. 420	
	2. 720	—26. 900					

* Rate assumed.

† Solution by least squares.

INTRODUCTION.

B XI

TABLE E.—*The Adopted Values of the Readings of the Zenith Distance Micrometer.*

September 15, 1900, to September 17, 1900.										
One revolution of screw = 19". 186										
Rev.	.0	.1	.2	.3	.4	.5	.6	.7	.8	.9
	' "	' "	' "	' "	' "	' "	' "	' "	' "	' "
37	.....	.....	2 18.14	2 20.06	.....	.....	.....	.....	.....	.....
38	.....	.....	.....	.....	.....	.....	.....	2 46.92	2 48.84	.....
39	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
40	.....	.....	.....	.....	.....	.....	.....	.....	.....	3 29.13
41	3 31.05	.....	.....	.....	.....	.....	.....	.....	.....	3 48.31
42	3 50.23	.....	3 54.07	3 55.99	3 57.91	3 59.82	4 1.74	.....	4 5.58	4 7.50
43	.....	.....	.....	4 15.17	4 17.09	.....	.....	.....	.....	4 26.69
44	4 28.60	.....	.....	4 34.36	4 36.28	4 38.20	4 40.12	4 42.03	4 43.95	4 45.87
45	.....	4 49.71	4 51.63	.....	.....	4 57.38	4 59.30	.....	.....	.....
46	.....	.....	.....	.....	.....	5 16.57	5 18.49	.....	.....	5 24.24
47	5 26.16	5 28.08	5 30.00	.....	5 33.84	5 35.76	5 37.67	.....	5 41.51	5 43.43
48	5 45.35	5 47.27	.....	.....	.....	.....	.....	.....	.....	.....
49	.....	.....	6 8.37	6 10.29	.....	.....	.....	.....	.....	.....
50	.....	.....	.....	.....	.....	.....	.....	.....	6 39.07	6 40.99
51	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
52	.....	.....	7 5.93	7 7.85	.....	.....	.....	.....	.....	.....
53	.....	.....	.....	.....	.....	.....	.....	.....	7 36.63	7 38.55

September 18, 1900, to September 21, 1900.										
One revolution of screw = 19". 16										
38	2 32.74	2 34.64	2 36.54	2 38.44	2 40.34	2 42.24	2 44.14	2 46.04	2 47.94	2 49.84
39	2 51.73	2 53.63	2 55.53	2 57.43	2 59.33	3 1.23	3 3.12	3 5.02	3 6.92	3 8.82
40	3 10.72	3 12.61	3 14.51	3 16.41	3 18.31	3 20.20	3 22.10	3 24.00	3 25.90	3 27.80
41	3 29.70	3 31.59	3 33.49	3 35.39	3 37.29	3 39.19	3 41.09	3 42.99	3 44.89	3 46.79
42	3 48.70	3 50.60	3 52.50	3 54.40	3 56.31	3 58.21	4 0.12	4 2.02	4 3.93	4 5.83
43	4 7.74	4 9.64	4 11.55	4 13.46	4 15.37	4 17.28	4 19.19	4 21.10	4 23.01	4 24.92
44	4 26.84	4 28.75	4 30.66	4 32.58	4 34.49	4 36.41	4 38.33	4 40.24	4 42.16	4 44.08
45	4 46.00	4 47.91	4 49.83	4 51.75	4 53.67	4 55.59	4 57.52	4 59.44	5 1.36	5 3.28
46	5 5.20	5 7.13	5 9.05	5 10.98	5 12.90	5 14.82	5 16.75	5 18.68	5 20.60	5 22.53
47	5 24.45	5 26.38	5 28.31	5 30.24	5 32.16	5 34.09	5 36.02	5 37.95	5 39.88	5 41.81
48	5 43.74	5 45.67	5 47.60	5 49.53	5 51.47	5 53.40	5 55.33	5 57.26	5 59.19	6 1.13
49	6 3.06	6 4.99	6 6.93	6 8.86	6 10.79	6 12.73	6 14.66	6 16.60	6 18.53	6 20.47
50	6 22.40	6 24.34	6 26.27	6 28.20	6 30.14	6 32.07	6 34.01	6 35.94	6 37.87	6 39.81
51	6 41.74	6 43.67	6 45.60	6 47.54	6 49.47	6 51.40	6 53.33	6 55.26	6 57.20	6 59.13
52	7 1.06	7 2.99	7 4.92	7 6.85	7 8.78	7 10.71	7 12.64	7 14.57	7 16.50	7 18.42
53	7 20.35	7 22.28	7 24.21	7 26.14	7 28.07	7 29.99	7 31.92	7 33.85	7 35.77	7 37.70

TABLE E.—*The Adopted Values of the Readings of the Zenith Distance Micrometer—Continued.*

September 22, 1900, to January 29, 1901. One revolution of screw = 19". 1782						
	2'	3'	4'	5'	6'	7'
"	r	r	r	r	r	r
0	36.257	39.386	42.514	45.643	48.771	51.900
1	36.309	39.438	42.566	45.695	48.823	51.952
2	36.361	39.490	42.618	45.747	48.876	52.004
3	36.414	39.542	42.671	45.799	48.928	52.056
4	36.446	39.594	42.723	45.851	48.980	52.108
5	36.518	39.646	42.775	45.903	49.032	52.161
6	36.570	39.699	42.827	45.956	49.084	52.213
7	36.622	39.751	42.879	46.008	49.136	52.265
8	36.674	39.803	42.931	46.060	49.188	52.317
9	36.726	39.855	42.983	46.112	49.241	52.369
10	36.779	39.907	43.036	46.164	49.293	52.421
11	36.831	39.959	43.088	46.216	49.345	52.473
12	36.883	40.011	43.140	46.268	49.397	52.526
13	36.935	40.064	43.192	46.321	49.449	52.578
14	36.987	40.116	43.244	46.373	49.501	52.630
15	37.039	40.168	43.296	46.425	49.553	52.682
16	37.091	40.220	43.348	46.477	49.606	52.734
17	37.144	40.272	43.401	46.529	49.658	52.786
18	37.196	40.324	43.453	46.581	49.710	52.838
19	37.248	40.376	43.505	46.633	49.762	52.891
20	37.300	40.428	43.557	46.686	49.814	52.943
21	37.352	40.481	43.609	46.738	49.866	52.995
22	37.404	40.533	43.661	46.790	49.918	53.047
23	37.456	40.585	43.713	46.842	49.971	53.099
24	37.509	40.637	43.766	46.894	50.023	53.151
25	37.561	40.689	43.818	46.946	50.075	53.203
26	37.613	40.741	43.870	46.998	50.127	53.256
27	37.665	40.793	43.922	47.051	50.179	53.308
28	37.717	40.846	43.974	47.103	50.231	53.360
29	37.769	40.898	44.026	47.155	50.283	53.412
30	37.821	40.950	44.078	47.207	50.336	53.464
31	37.874	41.002	44.131	47.259	50.388	53.516
32	37.926	41.054	44.183	47.311	50.440	53.568
33	37.978	41.106	44.235	47.363	50.492	53.621
34	38.030	41.158	44.287	47.416	50.544	53.673
35	38.082	41.211	44.339	47.468	50.596	53.725
36	38.134	41.263	44.391	47.520	50.648	53.777
37	38.186	41.315	44.443	47.572	50.701	53.829
38	38.239	41.367	44.496	47.624	50.753	53.881
39	38.291	41.419	44.548	47.676	50.805	53.933
40	38.343	41.471	44.600	47.728	50.857	53.986
41	38.395	41.523	44.652	47.781	50.909	54.038
42	38.447	41.576	44.704	47.833	50.961	54.090
43	38.499	41.628	44.756	47.885	51.013	54.142
44	38.551	41.680	44.808	47.937	51.066	54.194
45	38.604	41.732	44.861	47.989	51.118	54.246
46	38.656	41.784	44.913	48.041	51.170	54.298
47	38.708	41.836	44.965	48.093	51.222	54.351
48	38.760	41.888	45.017	48.146	51.274	54.403
49	38.812	41.941	45.069	48.198	51.326	54.455
50	38.864	41.993	45.121	48.250	51.378	54.507
51	38.916	42.045	45.173	48.302	51.431	54.559
52	38.969	42.097	45.226	48.354	51.483	54.611
53	39.021	42.149	45.278	48.406	51.535	54.663
54	39.073	42.201	45.330	48.458	51.587	54.716
55	39.125	42.253	45.382	48.511	51.639	54.768
56	39.177	42.306	45.434	48.563	51.691	54.820
57	39.229	42.358	45.486	48.615	51.743	54.872
58	39.281	42.410	45.538	48.667	51.796	54.924
59	39.334	42.462	45.591	48.719	51.848	54.976
60	39.386	42.514	45.643	48.771	51.900	55.028

TABLE F.—*Inclination and Distance of Zenith Distance Threads.*

Vertical Thread.	Correction for Double Threads.	Correction for Thread A.	Correction for Thread B.	Correction for Thread C.	Vertical Thread.	Correction for Double Threads.	Correction for Thread A.	Correction for Thread B.	Correction for Thread C.
September 15, 1900, to September 21, 1900.					November 17, 1900, to December 18, 1900.				
I	" +2.26	' " +3 17.33	' " -3 10.50	' " -6 23.73	I	" -2.09	' " +3 12.49	' " -3 15.44	' " -6 27.67
II	" 1.51	" 16.49	" 11.38	" 24.37	II	" 1.39	" 13.25	" 14.65	" 27.09
III	" +0.75	" 15.65	" 12.26	" 25.01	III	" -0.70	" 14.00	" 13.88	" 26.52
IV	" 0.00	" 14.81	" 13.14	" 25.64	IV	" 0.00	" 14.76	" 13.10	" 25.94
V	" -0.75	" 13.97	" 14.02	" 26.27	V	" +0.70	" 15.51	" 12.32	" 25.36
VI	" 1.51	" 13.13	" 14.90	" 26.91	VI	" 1.39	" 16.26	" 11.54	" 24.78
VII	" -2.26	" +3 12.29	" -3 15.78	" -6 27.54	VII	" +2.09	" +3 17.02	" -3 10.75	" -6 24.20
September 22, 1900, to November 12, 1900.					December 19, 1900, to January 29, 1901.				
I	" +1.97	' " +3 16.90	' " -3 10.87	' " -6 24.32	I	" -2.26	' " +3 12.38	' " -3 15.67	' " -6 27.78
II	" 1.31	" 16.19	" 11.61	" 24.86	II	" 1.50	" 13.18	" 14.87	" 27.16
III	" +0.66	" 15.48	" 12.35	" 25.40	III	" -0.75	" 13.97	" 14.07	" 26.55
IV	" 0.00	" 14.76	" 13.10	" 25.94	IV	" 0.00	" 14.76	" 13.27	" 25.94
V	" -0.66	" 14.04	" 13.84	" 26.48	V	" +0.75	" 15.55	" 12.47	" 25.33
VI	" 1.31	" 13.33	" 14.58	" 27.01	VI	" 1.50	" 16.35	" 11.67	" 24.72
VII	" -1.97	" +3 12.61	" -3 15.32	" -6 27.55	VII	" +2.26	" +3 17.15	" -3 10.86	" -6 24.10

TABLE G.—*Reduction to Meridian.*

September 16, 1900, to November 12, 1900.				November 17, 1900, to January 29, 1901.			
Z. D. N.	I VII.	II VI.	III V.	Z. D. S.	I VII.	II VI.	III V.
°	"	"	"	°	"	"	"
21	3. 70	4. 42	4. 86	339	6. 30	5. 58	5. 14
20	3. 75	4. 45	4. 86	340	6. 25	5. 55	5. 14
19	3. 80	4. 47	4. 87	341	6. 20	5. 53	5. 13
18	3. 84	4. 49	4. 87	342	6. 16	5. 51	5. 13
17	3. 89	4. 51	4. 88	343	6. 11	5. 49	5. 12
16	3. 93	4. 52	4. 88	344	6. 07	5. 48	5. 12
15	3. 97	4. 54	4. 89	345	6. 03	5. 46	5. 11
14	4. 00	4. 56	4. 89	346	6. 00	5. 44	5. 11
13	4. 04	4. 57	4. 89	347	5. 96	5. 43	5. 11
12	4. 07	4. 59	4. 90	348	5. 93	5. 41	5. 10
11	4. 11	4. 60	4. 90	349	5. 89	5. 40	5. 10
10	4. 14	4. 62	4. 90	350	5. 86	5. 38	5. 10
9	4. 17	4. 63	4. 91	351	5. 83	5. 37	5. 09
8	4. 20	4. 64	4. 91	352	5. 80	5. 36	5. 09
7	4. 22	4. 66	4. 91	353	5. 78	5. 34	5. 09
6	4. 25	4. 67	4. 92	354	5. 75	5. 33	5. 08
5	4. 28	4. 68	4. 92	355	5. 72	5. 32	5. 08
4	4. 30	4. 69	4. 92	356	5. 70	5. 31	5. 08
3	4. 33	4. 70	4. 92	357	5. 67	5. 30	5. 08
2	4. 35	4. 71	4. 93	358	5. 65	5. 29	5. 07
1	4. 37	4. 72	4. 93	359	5. 63	5. 28	5. 07
0	4. 39	4. 73	4. 93	0	5. 61	5. 27	5. 07
359	4. 42	4. 74	4. 93	1	5. 58	5. 26	5. 07
358	4. 44	4. 75	4. 94	2	5. 56	5. 25	5. 06
357	4. 46	4. 76	4. 94	3	5. 54	5. 24	5. 06
356	4. 48	4. 77	4. 94	4	5. 52	5. 23	5. 06
355	4. 50	4. 78	4. 94	5	5. 50	5. 22	5. 06
354	4. 52	4. 78	4. 95	6	5. 48	5. 22	5. 05

An arbitrary constant of 5" is added in this table, and necessarily appears in the values of the equator points and zenith point corrections of Table H.

TABLE H.—*Equator Points Derived from Direct Observation of Zero Stars and Zenith Point Corrections from Nadir Observations.*

Date.	Sidereal Hour.	Equator Point.	Sid. Hour of Nadir.	Z. P. Corr.	Date.	Sidereal Hour.	Equator Point.	Sid. Hour of Nadir.	Z. P. Corr.
		321° 5'					38° 56'		
1900	h h	"	h	' "	1900	h h	"	h	' "
Sept. 16	0. 6-3. 4	25. 13	0. 4	—0 37. 69	Nov. 17	0. 8-2. 7	44. 00	1. 1	—1 28. 36
18	0. 6-3. 4	36. 47	0. 4	0 49. 63	21	0. 6-2. 8	19. 71	1. 0	1 3. 03
19	1. 030	37. 10	0. 4	0 50. 25	22	0. 6-3. 4	17. 68	0. 4	1 1. 85
19	3. 158	35. 83	...	. . . . .	27	0. 6-3. 4	13. 11	0. 4	0 57. 60
23	0. 947	40. 10	0. 4	0 54. 25	30	1. 030	11. 05	0. 4	0 55. 96
23	3. 158	41. 60	...	. . . . .	30	3. 168	11. 98	...	. . . . .
24	0. 6-3. 4	41. 64	0. 3	0 54. 72	Dec. 5	1. 030	10. 48	0. 3	0 55. 32
25	1. 030	40. 82	0. 4	0 54. 71	5	3. 168	11. 60	...	. . . . .
25	3. 158	42. 68	...	. . . . .	6	0. 6-3. 4	10. 89	0. 4	0 54. 40
26	1. 030	40. 85	0. 3	0 54. 74	10	1. 032	8. 95	0. 4	0 53. 07
26	3. 158	41. 68	...	. . . . .	10	3. 168	9. 68	...	. . . . .
27	1. 030	41. 85	0. 3	0 54. 93	11	0. 6-1. 6	9. 38	0. 4	0 52. 92
27	3. 158	42. 45	...	. . . . .	12	0. 6-3. 1	8. 61	0. 2	0 52. 96
Oct. 6	1. 030	43. 02	0. 4	0 56. 55	13	0. 6-3. 1	10. 60	0. 4	0 55. 02
6	3. 158	43. 62	...	. . . . .	14	0. 6-3. 4	9. 40	0. 3	0 54. 08
9	0. 6-3. 4	42. 64	0. 3	0 56. 14	19	1. 035	7. 02	0. 4	0 51. 14
10	0. 6-3. 4	42. 90	0. 3	0 56. 70	19	3. 028	7. 90	...	. . . . .
11	0. 6-3. 4	43. 02	0. 3	0 56. 67	20	0. 940	6. 33	0. 4	0 51. 52
15	0. 6-3. 4	43. 08	0. 3	0 56. 99	20	3. 028	6. 92	...	. . . . .
16	1. 090	41. 70	0. 3	0 55. 85	21	0. 6-3. 3	6. 42	0. 4	0 50. 60
16	3. 165	42. 60	...	. . . . .	26	0. 6-3. 3	6. 08	0. 4	0 50. 72
19	0. 6-3. 4	42. 82	0. 3	0 56. 37	27	0. 6-3. 3	5. 06	0. 4	0 49. 79
20	1. 030	42. 82	0. 3	0 56. 16	28	1. 040	4. 12	2. 3	0 49. 53
20	3. 168	41. 35	...	. . . . .		2. 480	4. 82	...	. . . . .
21	1. 030	41. 48	0. 3	0 55. 48	1901				
21	3. 168	42. 28	...	. . . . .	Jan. 1	0. 6-3. 1	4. 09	2. 2	0 49. 24
24	0. 6-3. 4	42. 69	0. 3	0 56. 32	2	1. 2-3. 3	5. 16	0. 3	0 49. 41
26	0. 6-3. 4	43. 76	0. 3	0 56. 46	3	0. 6-3. 1	4. 59	2. 3	0 48. 70
27	0. 6-3. 4	43. 76	0. 3	0 57. 22	4	0. 6-3. 1	4. 08	2. 3	0 48. 79
29	0. 6-3. 4	43. 60	0. 3	0 56. 27	7	1. 9-3. 1	4. 11	3. 2	0 49. 23
Nov. 4	1. 9-3. 0	43. 60	1. 4	0 56. 79	8	0. 6-3. 1	3. 93	1. 1	0 48. 56
5	0. 6-3. 4	43. 44	0. 3	0 57. 12	9	0. 6-2. 2	5. 79	1. 1	0 50. 48
9	0. 6-3. 4	42. 75	0. 3	0 55. 94	15	1. 040	5. 42	2. 2	0 50. 70
11	1. 7-3. 0	43. 16	2. 2	0 56. 48	15	2. 602	6. 20	...	. . . . .
12	0. 6-3. 4	43. 68	2. 1	—0 57. 32	16	0. 8-3. 1	7. 96	2. 2	0 52. 69
					18	1. 2-3. 1	4. 66	2. 1	0 49. 14
					22	1. 7-3. 2	3. 90	2. 3	0 48. 29
					29	1. 992	1. 98	2. 3	—0 47. 53
						2. 940	3. 13	...	. . . . .

Latitude of Transit Circle 38° 55' 14". 1

TABLE J.—*Corrections Due to Unsymmetrical Illumination Dependent on Magnitude.*

Mag- nitude.	R. A.		Decl.	
	Cl. W. +	Cl. E. —	Cl. W. —	Cl. E. +
5.65	s			
6.25	0.01			
6.95	0.02			
7.55	0.03		"	
8.15	0.04		0.2	
8.75	0.05			
9.35	0.06			
9.95	0.07			

TABLE K.—*List of Zero Stars.*

Name.	R. A. 1900.0 (Newcomb).			No. Obs.	Decl. 1900.0 (Newcomb).			No. Obs.
	h	m	s		°	'	"	
α Cassiopeiæ (A. E.)	0	39	9.029	46	+47	44	13.69	47
γ Cassiopeiæ (A. E.)	0	50	40.146	47	60	10	31.00	47
ξ Andromedæ (Newc.)	1	16	26.999	50	45	0	16.85	50
δ Cassiopeiæ (B. J.)	1	19	16.220	50	59	42	56.57	50
τ Andromedæ (Newc.)	1	34	40.497	1	40	4	14.34	1
ϕ Persei (B. J.)	1	37	23.368	2	50	11	6.21	2
z Persei (Newc.)	1	45	47.549	5	50	17	54.55	5
γ Andromedæ (A. E.)	1	57	45.496	7	41	50	59.92	7
β Trianguli (A. E.)	2	3	35.454	11	34	30	51.70	11
δ Persei (Newc.)	2	6	57.070	13	50	36	4.71	13
γ Trianguli (A. E.)	2	11	22.030	5	33	23	5.20	5
θ Persei (A. E.)	2	37	22.001	4	48	48	20.23	4
η Persei (Newc.)	2	43	23.941	2	55	28	50.12	2
τ Persei (B. J.)	2	47	9.856	20	52	21	12.01	20
γ Persei (B. J.)	2	57	33.025	51	53	6	53.92	52
β Persei (A. E.)	3	1	39.575	50	40	34	13.82	50
α Persei (A. E.)	3	17	10.815	37	49	30	19.36	36
z H. Camelopardalis (B. J.)	3	20	58.092	31	+59	35	30.95	31

NINE-INCH TRANSIT CIRCLE.

OBSERVATIONS AND REDUCTIONS.

4780—VOL. III—02—8

B1

OBSERVATIONS OF EROS AND REFERENCE STARS.

B3

1900 SEPTEMBER 16.										CLAMP WEST.				HAMMOND, ASSISTANT.						
KING, OBSERVER.																				
NO.	NAME.	THDS.	MEAN THREAD.		INST. COR.	CLOCK COR.	APPARENT R. A.		RED. TO 1900.0	CIRCLE READING.		MICROMETER READINGS.		REFR.	APPARENT DECL.		RED. TO 1900.0			
			m	s	s	s	h	m	s	s	°	'	"	r	r	"	°	'	"	"
1	α Cassiopeiae	11	39	26.38	-0.62	-11.29	0	39	.....	.....	8	44	4.52	47.770 .800	.900 .940	8.6	+47	44	.....	.....
2	ξ Andromedae	11	16	44.28	0.59	11.26	1	16	.....	.....	6	0	4.05	47.940 .950	.075 .135	5.9	45	0	.....	.....
3	δ Cassiopeiae	11	19	34.75	-0.83	-11.14	1	19	.....	.....	20	44	4.85	42.705 .705	.910 .945	21.1	+59	43	.....	.....
4	B. D. +51° 317	8	24	44.06	-0.68	-11.24	1	24	32.14	-5.82	12	36	.....	.....	.....	.....	+51	34	.....	.....
5	B. D. +51° 323	9	26	4.48	0.68	11.24	1	25	52.56	5.85	12	58	.....	.....	.....	.....	51	57	.....	.....
6	B. D. +52° 387	9	30	57.40	0.69	11.25	1	30	45.46	5.91	13	36	5.58	45.555	.565	13.5	52	35	58.5	-15.4
7	B. D. +51° 344	8	31	27.42	0.68	11.25	1	31	15.49	5.88	13	6	5.10	(50)...	.510	13.1	52	7	30.7	15.4
8	B. D. +51° 360	9	33	52.29	0.68	11.25	1	33	40.36	5.88	13	6	4.98	53.850	.875	13.1	52	8	35.7	15.2
9	B. D. +51° 364	10	34	28.24	-0.68	-11.25	1	34	16.31	-5.88	13	6	4.82	52.205	.230	C 13.0	+52	1	38.3	-15.1
10	B. D. +52° 424	9	38	16.51	-0.69	-11.25	1	38	4.57	-5.93	13	48	5.58	45.120	.170	(C) 13.6	+52	41	23.9	-14.6
11	B. D. +52° 441	9	42	11.13	0.69	11.26	1	41	59.18	5.94	13	48	5.58	47.030	.105	B 13.7	52	45	13.4	14.2
12	B. D. +55° 440	9	49	32.20	0.74	11.26	1	49	20.20	6.18	16	24	4.58	44.515	.580	B 16.4	55	20	26.7	12.8
13	B. D. +55° 464	9	53	9.06	0.74	11.26	1	52	57.06	6.18	16	24	4.52	47.430	.445	C 16.4	55	18	9.6	12.4
14	B. D. +55° 484	9	57	22.33	0.74	11.27	1	57	10.32	6.18	16	24	3.82	45.180	.210	C 16.4	55	17	25.9	11.9
15	B. D. +55° 527	8	3	6.67	-0.74	-11.27	2	2	54.66	-6.20	16	24	4.85	42.225	.250	C 16.5	+55	22	55.9	-11.3
16	B. D. +55° 551	9	8	24.57	-0.74	-11.27	2	8	12.56	-6.19	16	14	5.28	44.660	.700	(A) 16.4	+55	16	59.6	-10.7
17	B. D. +54° 500	9	8	52.52	0.73	11.27	2	8	40.52	6.18	16	14	5.05	46.525	.580	C 16.2	55	7	53.0	10.7
18	B. D. +54° 511	9	11	53.97	0.73	11.28	2	11	41.96	6.18	16	6	5.80	41.925	.980	B 16.2	55	4	51.1	10.4
19	B. D. +52° 576	9	17	53.42	0.70	11.28	2	17	41.44	5.99	14	2	5.58	38.700	.740	C 14.0	52	59	46.7	10.2
20	B. D. +52° 580	9	19	21.10	0.70	11.28	2	19	9.12	5.99	14	2	5.65	44.475	.520	C 13.9	52	55	11.9	10.0
21	B. D. +52° 581	9	20	48.51	-0.70	-11.28	2	20	36.53	-6.00	14	2	5.55	49.250	.245	C 14.1	+53	3	8.7	-9.9
22	B. D. +52° 597	8	27	41.13	-0.70	-11.29	2	27	29.14	-5.99	14	2	4.95	43.345	.370	B 14.0	+52	58	1.9	-9.1
23	B. D. +50° 601	8	34	0.58	0.67	11.29	2	33	48.62	5.84	12	12	5.70	44.860	.930	() 12.2	51	11	43.5	8.8
24	B. D. +51° 633	9	42	45.94	0.67	11.30	2	42	33.97	5.84	12	12	5.58	40.935	....	(A) 12.2	51	13	43.0	7.8
25	B. D. +47° 709	9	43	38.74	0.62	11.30	2	43	26.82	5.59	8	50	5.02	37.255	.315	B 8.7	47	44	0.2	8.7
26	B. D. +47° 711	8	44	10.77	-0.62	-11.30	2	43	58.85	-5.60	8	50	5.05	44.320	.405	A 8.8	+47	52	42.0	-8.6
27	γ Persei .....	..	..	.....	.....	.....	2	57	.....	.....	14	8	5.45	42.505 .500	.650 .715	14.2	+53	6	.....	.....
28	β Persei	11	1	56.73	0.54	-11.47	3	1	.....	.....	1	34	4.12	47.480 .500	.600 .675	1.6	40	34	.....	.....
29	α Persei	11	17	28.44	0.65	11.35	3	17	.....	.....	10	30	4.40	47.090 .110	.235 .320	10.5	49	30	.....	.....
30	2 H. Camelop.	7	21	16.59	-0.82	-11.14	3	21	.....	.....	20	36	5.52	43.820 .820	.010 .080	21.1	+59	35	.....	.....

1900 SEPTEMBER 18.										CLAMP WEST.				HAMMOND, ASSISTANT.			
KING, OBSERVER.																	
31	α Cassiopeiæ .....	..	..	....	....	0 39 .....	....	8 44 9.52	48.230 .255	.395 .440	8.9	+47 44 ....	....				
32	γ Cassiopeiæ	11	50 58.75	-0.50	-11.63	0 50 .....	....	21 10 10.42	48.265 .260	.405 .445	22.3	60 10 ....	....				
33	ξ Andromedæ	10	16 44.58	0.41	11.70	1 16 .....	....	6 0 9.28	48.340 .360	.520 .590	6.1	45 0 ....	....				
34	δ Cassiopeiæ	11	19 35.04	-0.50	-11.72	1 19 .....	....	20 44 10.38	43.050 .080	.200 .305	21.9	+59 43 ....	....				
35	B. D. +50° 300	9	27 6.57	-0.44	-11.69	1 26 54.44	-5.83	11 58 8.95	47.330	.390	12.3	+50 58 21.0	-16.7				
36	B. D. +51° 334	10	28 51.86	0.44	11.69	1 28 39.73	5.88	12 40 9.82	42.210	.315	13.0	51 38 44.9	16.4				
37	B. D. +51° 338	7	29 40.54	0.44	11.69	1 29 28.41	5.88	12 40 10.10	44.380	.480	13.0	51 39 24.6	16.3				
38	B. D. +52° 393	9	32 49.89	-0.45	-11.69	1 32 37.75	-5.98	13 44 10.20	46.150	.190	14.2	+52 44 2.3	-15.7				

Time.	Barom.	Att. Ther.	Ex. Ther.	Telescope micrometer bisections are made at III and V, except as noted below.										No.	Eq. Points.		
d h m	in.	°	°												°	'	"
16 0 41	29.635	70.0	68.6	1, 2, 3, 27, 28, 29, 30, 31, 32, 33, 34. Bisections at I, II, VI, VII.										1	321	5	25.1
1 21	29.65	68.6	67.2	6, 16, 38. Bisections at I, III.										2			25.0
1 54	29.64	67.5	65.9	7. Bisection at V.										3			24.2
2 23	29.64	66.5	65.0	24. Bisection at III.										27			25.9
2 46	29.64	66.0	64.5	26, 37. Bisections at V, VII.										28			24.7
3 22	29.64	65.1	63.5											29			25.3
18 0 41	30.02	59.2	57.8	Notes. Sept. 16. Very bad seeing. Thin clouds throughout. 18. Seeing good.										30			25.7
1 22	30.015	57.8	56.2														
												31			37.4		
												32			37.4		
												33			36.5		
												34			34.8		

Notes.

Sept. 16. Very bad seeing. Thin clouds throughout.
18. Seeing good.Adopted Equator Point. 1-30 321° 5' 25".13
31-38 36 .47

B4

NINE-INCH TRANSIT CIRCLE.

NO.	NAME.	THDS.	MEAN THREAD.	INST. COR.	CLOCK COR.	APPARENT R. A.	RED. TO 1900.0	CIRCLE READING.	MICROMETER READINGS.	REFR.	APPARENT DECL.	RED. TO 1900.0
			m s	s	s	h m s	s	° ' "	r r	"	° ' "	"
1	B. D. +51° 357	9	33 31.79	-0.44	-11.69	1 33 19.66	-5.90	12 46 9.38	45.525 .615	13.1	51 45 47.8	-15.8
2	B. D. +52° 406	9	35 41.47	0.45	11.69	1 35 29.33	5.99	13 52 9.98	47.600 .655	14.3	52 52 29.2	15.4
3	B. D. +54° 383	9	42 58.11	0.46	11.69	1 42 45.96	6.16	15 44 9.78	39.995 .120	B 16.2	54 38 53.0	14.2
4	B. D. +54° 388	9	44 16.04	0.46	11.69	1 44 3.89	6.17	15 44 9.82	44.320 .385	B 16.3	54 43 28.1	14.1
5	B. D. +54° 396	9	45 43.47	0.46	11.69	1 45 31.32	6.17	15 44 9.75	41.610 .650	B 16.3	54 39 23.0	13.9
6	B. D. +54° 424	9	51 31.33	0.46	11.69	1 51 19.18	6.20	15 54 9.58	43.120 .230	16.5	54 53 5.5	13.2
7	B. D. +54° 444	9	56 45.27	-0.46	-11.69	1 56 33.12	-6.19	15 44 10.05	49.660 .710	16.4	54 45 12.2	-12.7
8	B. D. +54° 448	7	57 24.68	-0.46	-11.69	1 57 12.53	-6.18	15 44 10.48	49.075 .130	C 16.3	54 38 34.6	-12.6
9	B. D. +54° 470	9	3 46.31	0.46	11.70	2 3 34.15	6.21	15 54 9.62	41.370 .390	B 16.5	54 49 18.3	11.9
10	B. D. +54° 494	9	8 0.49	0.46	11.70	2 7 48.33	6.22	15 54 9.42	47.040 .140	B 16.5	54 51 7.4	11.4
11	B. D. +54° 525	9	14 22.45	0.46	11.70	2 14 10.29	6.23	15 54 9.65	45.465 .555	(A) 16.6	54 57 5.2	10.6
12	B. D. +54° 535	9	17 12.75	0.46	11.70	2 17 0.59	6.23	15 54 9.60	48.295 .400	16.6	54 54 45.0	10.4
13	B. D. +54° 539	10	18 33.46	-0.46	-11.70	2 18 21.30	-6.22	15 54 9.45	48.170 .270	C 16.5	54 48 14.9	-10.2
14	B. D. +52° 585	9	22 13.07	-0.45	-11.70	2 22 0.92	-6.07	14 6 9.32	45.370 .450	14.6	53 5 46.2	-10.2
15	B. D. +53° 532	9	23 23.60	0.45	11.70	2 23 11.45	6.10	14 30 10.10	49.050 .095	C 14.9	53 24 32.2	10.0
16	B. D. +53° 540	9	26 7.57	0.45	11.70	2 25 55.42	6.11	14 30 10.10	53.040 .135	15.1	53 32 15.6	9.6
17	B. D. +53° 546	8	28 50.14	0.45	11.70	2 28 37.99	6.08	14 12 10.08	45.605 .670	A 14.8	53 15 6.3	9.4
18	B. D. +52° 616	9	36 14.97	0.45	11.70	2 36 2.82	6.06	14 12 10.05	47.810 .840	C 14.6	53 6 8.6	8.6
19	B. D. +50° 613	9	36 58.20	0.44	11.70	2 36 46.06	5.90	12 8 10.70	41.800 .880	12.5	51 6 37.3	9.0
20	B. D. +48° 746	8	37 39.87	-0.43	-11.70	2 37 27.74	-5.73	9 54 9.68	39.280 .365	B 10.1	48 48 30.8	-9.5
21	B. D. +48° 752	9	39 53.43	-0.43	-11.70	2 39 41.30	-5.74	9 54 9.18	44.065 .125	A 10.2	48 56 31.2	-9.2
22	B. D. +48° 760	8	41 43.33	0.43	11.71	2 41 31.19	5.73	9 54 9.35	38.420 .455	B 10.1	48 48 16.3	9.0
23	B. D. +48° 762	6	42 19.14	0.43	11.71	2 42 7.00	5.72	9 54			48 46	
24	B. D. +48° 763	7	42 45.36	0.43	11.71	2 42 33.22	5.73	9 54 9.28	44.100	10.2	48 53 13.6	8.9
25	B. D. +48° 770	9	44 37.46	0.43	11.71	2 44 25.32	5.73	9 54 9.12	43.450	A 10.2	48 56 18.0	8.7
26	B. D. +48° 782	9	45 56.56	-0.43	-11.71	2 45 44.42	-5.74	10 6 9.42	44.880 .935	10.4	49 5 32.5	-9.3
27	γ Persei	11	57 51.17	-0.45	-11.65	2 57		14 8 10.62	42.815 .000	14.7	53 7	
28	β Persei	11	1 56.92	0.39	11.75	3 1		1 34 9.08	47.890 .150	1.7	40 34	
29	α Persei	11	17 28.69	0.43	11.75	3 17		10 30 9.92	47.475 .655	10.8	49 30	
30	2 H. Camelop	11	21 16.93	-0.50	-11.70	3 21		20 36 11.82	44.145 .325	21.9	59 35	
									.140 .375			

1900 SEPTEMBER 19.

CLAMP WEST.

BOEGER, ASSISTANT.

KING, OBSERVER.

NO.	NAME.	THDS.	MEAN THREAD.	INST. COR.	CLOCK COR.	APPARENT R. A.	RED. TO 1900.0	CIRCLE READING.	MICROMETER READINGS.	REFR.	APPARENT DECL.	RED. TO 1900.0
31	α Cassiopeiæ	11	39 26.85	-0.38	-11.96	0 39		8 44 9.72	48.205 .400	9.0	47 44	
32	γ Cassiopeiæ	11	50 58.99	0.45	11.90	0 50		21 10 8.90	48.290 .510	22.4	60 10	
33	ξ Andromedæ	11	16 44.82	0.37	11.97	1 16		6 0 9.18	48.405 .590	6.2	45 0	
34	δ Cassiopeiæ	11	19 35.25	-0.44	-11.97	1 19		20 44 9.35	43.225 .395	21.9	59 43	
35	B. D. +49° 401	9	24 56.01	-0.39	-11.96	1 24 43.66	-5.79	11 10 8.80	44.575	11.5	50 9 25.4	-17.4
36	B. D. +49° 400	7	24 56.56	0.39	11.96	1 24 44.21	5.79	11 10 9.18	44.490 .525	B 11.4	50 6 12.0	17.4
37	B. D. +50° 297	5	25 59.92	0.39	11.96	1 25 47.57	5.85	11 58 8.95	48.755	B 12.3	50 55 31.0	17.1
38	B. D. +45° 379	9	28 51.25	0.37	11.96	1 28 38.92	5.55	7 0			46 1	
39	B. D. +45° 392	9	31 31.55	-0.37	-11.96	1 31 19.22	5.55	7 0 9.38	47.990 .965	B 7.1	45 57 14.8	-17.5
40	B. D. +45° 398	9	32 40.13	-0.37	-11.96	1 32 27.80	5.55	7 0 8.80	42.215 .280	B 7.1	45 55 24.3	-17.4
41	B. D. +45° 416	9	35 40.62	0.37	11.97	1 35 28.28	5.56	7 0 9.00	39.925 .030	B 7.1	45 54 41.4	17.1
42	B. D. +54° 368	8	38 5.49	0.41	11.97	1 37 53.11	6.15	15 22 9.82	39.765 .850	A 16.0	54 23 15.9	15.1
43	B. D. +54° 393	9	45 12.12	-0.41	-11.97	1 44 59.74	-6.17	15 22 9.02	48.295 .410	A 16.0	54 25 58.6	-14.3

Time.	Barom.	Att. Ther.	Ex. Ther.	Telescope micrometer bisections are made at III and V, except as noted below.						No.	Eq. Points.
d h m	in.	°	°								° ' "
18 1 46	30.03	56.7	55.2	7, 18.	Bisections at I, III.					27	321 5 35.7
2 20	30.025	55.5	54.0	13, 20.	Bisections at V, VII.					28	36.7
2 46	30.03	55.0	53.3	22.	Bisections at III, IV.					29	36.5
3 22	30.025	54.0	52.6	24, 37.	Bisection at VII.					30	36.7
19 1 0	30.06	56.8	56.0	25, 35.	Bisection at V.					31	37.2
1 20	30.06	57.0	56.0	27, 28, 29, 30, 31, 32, 33, 34.	Bisections at I, II, VI, VII.					32	37.4
					Note.					33	37.3
					Sept. 19. Seeing good.					34	36.5

Adopted Equator Point. . . . I-30 321° 5' 36".47

$$\begin{matrix} 31-43 \left\{ \begin{matrix} 1^h.030 \\ 3.158 \end{matrix} \right. \begin{matrix} 37.10 \\ 35.83 \end{matrix} \end{matrix}$$

OBSERVATIONS OF EROS AND REFERENCE STARS.

B 5

NO.	NAME.	THDS.	MEAN THREAD.	INST. COR.	CLOCK COR.	APPARENT R. A.	RED. TO 1900.0	CIRCLE READING.	MICROMETER READINGS.	REFR.	APPARENT DECL.	RED. TO 1900.0
			m s	s	s	h m s	s	° ' "	r r		° ' "	"
1	B. D. +54° 413	9	48 31.74	-0.41	-11.97	1 48 19.36	-6.16	15 22 8.83	42.465 .560	C	15.8 +54 14 25.7	-14.0
2	B. D. +54° 431	9	53 14.82	0.41	11.97	1 53 2.44	6.18	15 22 8.90	41.025 .090	B	15.9 54 20 23.9	13.5
3	B. D. +53° 440	9	57 3.46	0.41	11.98	1 56 51.07	6.18	15 18 9.25	40.215 .345		15.8 54 12 56.3	13.0
4	B. D. +54° 452	9	58 16.46	0.41	11.98	1 58 4.07	6.18	15 18 8.98	42.220 .270		15.8 54 16 46.5	12.9
5	B. D. +54° 457	9	59 26.98	-0.41	-11.98	1 59 14.59	-6.20	15 28 9.45	43.315 .390		16.0 +54 27 8.3	-12.7
6	B. D. +53° 453	9	1 55.03	-0.41	-11.98	2 1 42.64	-6.18	15 4 9.45	47.885 .975	A	15.7 +54 7 50.7	-12.5
7	B. D. +53° 470	9	5 18.32	0.41	11.98	2 5 5.93	6.18	15 4 9.75	49.120 .200		15.6 54 5 0.0	12.2
8	B. D. +53° 486	8	8 23.46	0.41	11.98	2 8 11.07	6.18	15 4 9.62	46.195 .310		15.6 54 4 3.8	11.8
9	B. D. +53° 494	9	11 25.56	0.41	11.98	2 11 13.17	6.17	15 4 9.60	44.335 .440	B	15.5 54 0 14.7	11.5
10	B. D. +53° 507	9	14 38.76	-0.41	-11.98	2 14 26.37	6.18	15 4 9.78	43.645 .760		15.6 +54 3 15.0	-11.1
11	B. D. +53° 541	9	26 14.42	-0.41	-11.99	2 26 2.02	-6.19	15 4 9.82	42.965 .115	A	15.7 +54 6 17.4	-9.7
12	B. D. +51° 598	9	29 34.04	0.40	11.99	2 29 21.65	6.01	13 4 9.50	43.500 .590	B	13.4 52 3 9.6	9.9
13	B. D. +51° 616	9	35 40.03	0.40	11.99	2 35 27.64	6.01	13 4 9.32	45.235 .325	B	13.4 52 0 29.6	9.2
14	B. D. +51° 620	8	36 56.64	0.40	11.99	2 36 44.25	6.00	13 4 9.00	41.865 .	B	13.4 51 59 25.1	9.0
15	B. D. +50° 623	9	38 51.15	-0.39	-12.00	2 38 38.76	-5.94	12 8 9.20	41.905 .960	A	12.5 +51 9 54.0	-9.0
16	B. D. +48° 750	9	39 14.25	-0.38	-12.00	2 39 1.87	-5.74	9 32 8.82	47.350 .		9.8 +48 32 17.9	-9.6
17	B. D. +43° 576	9	41 16.62	0.36	12.00	2 41 4.26	5.45	4 52 8.70	44.575 .625	A	5.0 43 51 20.9	10.6
18	B. D. +47° 702	9	42 37.17	0.38	12.00	2 42 24.79	5.65	8 8 8.68	50.930 .005		8.4 47 12 41.8	9.6
19	B. D. +46° 644	8	43 52.61	0.38	12.00	2 43 40.23	5.64	8 8 .			 47 0	
20	B. D. +47° 714	8	44 58.06	0.38	12.00	2 44 45.68	5.71	9 6 10.02	(45)420		9.3 48 5 41.4	9.1
21	B. D. +47° 721	7	46 8.92	-0.38	-12.00	2 45 56.54	-5.70	9 6 9.70	39.825 .	B	9.2 +48 0 41.1	-9.0
22	γ Persei	11	57 51.52	-0.40	-12.02	2 57		14 8 9.30	42.865 .035 .910 .140		14.6 +53 7	
23	β Persei	11	1 57.29	0.35	12.13	3 1		1 34 7.95	48. . . .100 47.950 .165		1.7 40 34	
24	α Persei	11	17 28.89	0.39	11.95	3 17		10 30			 49 30	
25	2 H. Camelop.	11	21 17.15	-0.44	-11.94	3 21		20 36 11.50	44.175 .325 .160 .395		21.8 +59 35	

1900 SEPTEMBER 23.										CLAMP WEST.				HAMMOND, ASSISTANT.			
KING, OBSERVER.																	
26	α Cassiopeiae	II	39 28.35	-0.39	-13.40	0 39	....	8 44 8.88	48. ... .470 .605	.570	8.8	+47 44	....	....			
27	γ Cassiopeiae	II	51 0.43	0.44	13.28	0 50	....	21 10 9.95	48. ... .525 .640	.570	22.1	60 10	....	....			
28	δ Cassiopeiae	II	19 36.85	-0.45	-13.47	I 19	....	20 44 9.52	43.400 .410 .585	.510	21.6	+59 43	....	....			
29	B. D. +49° 403	9	25 11.94	-0.39	-13.41	I 24 58.14	-5.86	10 56 8.58	43.660 .690		11.0	+49 55 7.3	-18.5				
30	B. D. +50° 297	9	26 1.62	0.40	13.41	I 25 47.81	5.93	11 58 9.12	(48) ... .800		B 12.1	50 55 32.4	18.2				
31	B. D. +49° 414	9	28 39.39	0.40	13.41	I 28 25.58	5.88	11 10 9.50	39.470 .		C 11.2	50 1 21.3	18.1				
32	B. D. +49° 416	8	30 25.46	0.40	13.41	I 30 11.65	5.89	11 10 9.38	44.620 .715		A 11.3	50 12 41.2	17.9				
33	B. D. +49° 422	9	32 1.95	0.40	13.41	I 31 48.14	5.89	11 10 9.40	44.260 .320		B 11.2	50 6 6.0	17.7				
34	B. D. +52° 399	9	33 33.38	-0.40	-13.42	I 33 19.56	-6.06	13 24 9.78	48.540 .595		13.6	+52 24 43.9	-17.1				
35	B. D. +52° 420	9	37 37.10	-0.40	-13.42	I 37 23.28	-6.08	13 24 9.78	43.730 .810		13.6	+52 23 11.8	-16.7				
36	B. D. +54° 408	9	47 31.30	0.42	13.43	I 47 17.45	6.34	16 6 9.50	47.770 .820		16.5	55 6 31.4	15.1				
37	B. D. +54° 415	9	49 28.76	0.42	13.43	I 49 14.91	6.35	16 6 9.50	44.320 .380		16.5	55 5 26.2	14.8				
38	B. D. +54° 417	9	49 52.48	0.42	13.43	I 49 38.63	6.35	16 6 9.62	49.020 .140	A	16.6	55 10 9.2	14.8				
39	B. D. +54° 429	9	52 30.43	0.42	13.43	I 52 16.58	6.36	16 6 9.55	45.875 .950		16.5	55 5 55.4	14.5				
40	B. D. +54° 453	9	58 38.26	-0.42	-13.44	I 58 24.40	-6.38	16 6 9.70	44.800 .850	A	16.5	+55 8 49.4	-13.8				
Telescope micrometer bisections are made at III and V, except as noted below.														No.	Eq. Points.		
d h m	in.	°	°												° ' "		
19 1 48	30.05	56.8	55.9	14, 31.	Bisection at III.									22	321 5 35.4		
2 14	30.05	56.7	55.8	15, 29, 37.	Bisections at I, III.									23	35.6		
2 47	30.05	56.6	56.0	16, 19, 20, 21, 30.	Bisection at V.									25	36.5		
3 22	30.05	56.3	55.3	22, 25, 28.	Bisections at I, II, VI, VII.									26	40.1		
23 0 42	29.86	61.2	59.6	23, 26, 27.	Bisections at II, VI, VII.									27	40.5		
1 20	29.86	61.0	59.9	38.	Bisections at V, VII.									28	39.7		
1 54	29.855	61.8	59.7														
Note.																	
Sept. 23. Seeing fair, slightly better at beginning than at end.																	
Adopted Equator Point. . . . 1-25 { 1 ^h .030 321° 5' 37".10 3 .158 35 .83 26-40 { 0 .947 40 .10 3 .158 41 .60																	

NINE-INCH TRANSIT CIRCLE.

NO.	NAME.	THDS.	MEAN THREAD.	INST. COR.	CLOCK COR.	APPARENT R. A.	RED. TO 1900. 0	CIRCLE READING.	MICROMETER READINGS.	REFR.	APPARENT DECL.	RED. TO 1900. 0	
			m s	s	s	h m s	s	° ' "	r	r	"	° ' "	"
1	B. D.+54° 469	9	3 29.55	-0.42	-13.44	2 3 15.69	-6.37	16 6 9.50	40.615	.705	B 16.4	+55 1 1.3	-13.2
2	B. D.+54° 483	9	6 31.62	0.41	13.45	2 6 17.76	6.34	15 34 8.88	50.635	.785	A 16.0	54 38 40.8	13.0
3	B. D.+54° 497	9	8 37.38	0.42	13.45	2 8 23.51	6.34	15 34 8.72	46.805	.880	A 16.0	54 37 26.5	12.7
4	B. D.+54° 530	8	16 4.31	-0.42	-13.45	2 15 50.44	-6.36	15 34 8.82	47.175	.310	A 16.0	54 37 32.2	11.8
5	B. D.+54° 554	..	.. ..	....	.....	2 21 .....	....	15 34 8.85	49.350	.420	B 15.9	+54 31 47.2	-11.1
6	B. D.+54° 565	--	.. ..	....	.....	2 24 .....	....	15 34 8.78	45.245	.335	C 15.8	+54 27 15.7	-10.8
7	B. D.+50° 589	9	31 42.93	-0.40	-13.47	2 31 29.06	-6.01	11 26 8.88	47.085	.130	11.6	50 26 12.3	10.9
8	B. D.+50° 595	9	32 44.76	0.40	13.47	2 32 30.89	6.00	11 26 8.78	41.700	.810	B 11.5	50 21 14.4	10.8
9	B. D.+49° 753	9	37 7.76	0.40	13.47	2 36 53.89	5.99	11 16 9.15	39.305	.405	B 11.3	50 10 30.4	10.4
10	B. D.+50° 620	9	38 24.69	-0.40	-13.47	2 38 10.82	-6.00	11 16 8.98	43.760	.820	A 11.5	+50 18 23.3	-10.2
11	B. D.+50° 627	9	39 49.29	-0.40	-13.48	2 39 35.41	-5.99	11 16 9.12	43.730	.800	B 11.4	+50 11 55.0	-10.0
12	B. D.+50° 630	8	41 25.92	0.40	13.48	2 41 12.04	6.06	12 8 9.35	46.740	.750	12.3	51 8 6.8	9.6
13	B. D.+50° 636	9	41 55.72	0.40	13.48	2 41 41.84	6.01	11 30 8.40	43.045	.125	11.7	50 28 54.6	9.7
14	B. D.+48° 764	7	43 3.07	0.39	13.48	2 42 49.20	5.86	9 28 9.10	46.610	.740	9.6	48 28 0.4	10.1
15	B. D.+48° 777	9	45 39.84	-0.39	-13.48	2 45 25.97	-5.86	9 28 9.18	47.840	.930	9.6	+48 28 25.3	-9.8
16	γ Persei.....	11	57 53.19	-0.41	-13.54	2 57 .....	....	14 8 9.72	43.200	.285	14.4	+53 7 ....	....
17	β Persei.....	11	1 58.88	0.36	13.59	3 1 .....	....	1 34 8.55	.185 48.145	.350 .295	1.6	40 34 ....	....
18	α Persei.....	11	17 30.57	0.39	13.48	3 17 .....	....	10 30 8.45	.205 47.860	.350 .920	10.7	49 30 ....	....
19	2 H. Camelop.....	11	21 18.80	-0.44	-13.40	3 21 .....	....	20 36 9.85	.835 44.520	.005 .660	21.6	+59 35 ....	....
									.555 .700				

KING, OBSERVER.

1900 SEPTEMBER 24.

CLAMP WEST.

HAMMOND, ASSISTANT.

20	α Cassiopeiae.....	11	39 28.70	-0.44	-13.68	0 39 ..	..	8 44 8.65	48. ...	.705	8.8	+47 44 ..	..
21	γ Cassiopeiae.....	11	51 0.95	0.49	13.73	0 50 ..	..	21 10 10.10	48.540	.650	22.1	60 10 ..	..
22	ξ Andromedae.....	11	16 46.76	0.43	13.79	1 16 ..	..	6 0 8.62	48.660	.800	6.1	45 0 ..	..
23	δ Cassiopeiae.....	11	19 37.23	-0.49	-13.77	1 19 ..	..	20 44 9.98	43.440	.525	21.6	+59 43 ..	..
24	B. D. +49° 399	8	24 20.50	-0.44	-13.75	1 24 6.31	-5.84	10 26 8.85	45.975	.020	10.6	+49 25 49.6	-19.0
25	B. D. +49° 412	9	28 9.40	0.45	13.75	1 27 55.20	5.87	10 38 8.72	44.510	.600	10.8	49 37 22.0	18.5
26	B. D. +49° 418	9	31 16.28	0.45	13.75	1 31 2.08	5.87	10 26 9.12	46.550	.590	10.6	49 26 0.8	18.2
27	B. D. +53° 355	9	33 25.43	0.46	13.75	1 33 11.22	6.19	14 38 9.22	45.980	.980	14.9	53 37 53.9	17.2
28	B. D. +53° 363	9	34 11.86	0.46	13.75	1 33 57.65	6.17	14 26 10.25	43.570	.620	B 14.7	53 21 55.9	17.2
29	B. D. +53° 375	9	37 45.93	-0.46	-13.75	1 37 31.72	-6.19	14 26 9.90	49.285	.345	14.8	+53 26 58.4	-16.8
30	B. D. +52° 433	9	40 3.72	-0.46	-13.75	1 39 49.51	-6.17	14 6 9.92	48.310	.380	14.4	+53 6 39.4	-16.6
31	B. D. +53° 386	8	41 35.17	0.46	13.75	1 41 20.96	6.21	14 28 9.45	44.100	.120	A 14.8	53 30 32.9	16.3
32	B. D. +53° 388	8	41 55.74	0.46	13.75	1 41 41.53	6.20	14 28 9.42	42.935	.075	B 14.7	53 23 43.7	16.3
33	B. D. +53° 395	9	43 31.50	0.46	13.75	1 43 17.29	6.20	14 22 10.48	46.395	.475	A 14.7	53 25 16.5	16.1
34	B. D. +53° 398	5	44 21.01	0.46	13.75	1 44 6.80	6.19	14 22 10.55	44.540	.720	C 14.5	53 15 1.5	16.1
35	B. D. +53° 402	5	45 32.19	-0.46	-13.75	1 45 17.98	-6.21	14 22 10.62	48.235	..	14.7	+53 22 35.5	-15.9
36	B. D. +53° 416	8	48 27.93	-0.46	-13.75	1 48 13.72	-6.22	14 22 10.65	43.030	.050	A 14.7	+53 24 14.5	-15.6
37	B. D. +53° 419	9	48 46.36	0.46	13.75	1 48 32.15	6.25	14 40 9.58	42.695	.800	A 15.0	53 42 5.2	15.5
38	B. D. +53° 437	9	55 43.12	0.46	13.75	1 55 28.91	6.25	14 32 9.25	47.105	.150	14.8	53 32 15.8	14.7
39	B. D. +53° 485	8	8 18.90	0.46	13.76	2 8 4.68	6.28	14 34 9.52	48.430	.480	14.9	53 34 41.7	13.2
40	B. D. +53° 501	9	12 27.01	0.46	13.76	2 12 12.79	6.29	14 38 9.15	47.020	.090	14.9	53 38 14.4	12.8
41	B. D. +53° 525	9	19 50.84	-0.46	-13.76	2 19 36.62	-6.30	14 40 10.15	48.280	.320	15.0	+53 40 39.4	-11.9

Time.

Barom.

Att.
Ther.Ex.
Ther.

Telescope micrometer bisections are made at III and V, except as noted below.

No.

Eq. Points.

d h m

in.

°

°

4, 8, 14, 33, 34, 37.

Bisections at V, VII.

Bisections at III, IV.

16, 17, 18, 19, 21, 22, 23.

Bisections at I, II, VI, VII.

Bisections at II, VI, VII.

Bisection at VII.

Bisections at I, III.

Note.

Sept. 24 Sky quite thick at commencement, but materially improved later.

Adopted Equator Point. ... 1-19 { 0^h.947 321° 5' 40".10
 41 { 3.158 41 .60
 20-41 { 41 .64

OBSERVATIONS OF EROS AND REFERENCE STARS.

B 7

NO.	NAME.	THDS.	MEAN THREAD.	INST. COR.	CLOCK COR.	APPARENT R. A.	RED. TO 1900. 0	CIRCLE READING.	MICROMETER READINGS.	REFR.	APPARENT DECL.	RED. TO 1900. 0
			m s	s	s	h m s	s	° ' "	r r	"	° ' "	"
1	B. D. +54° 554	9	22 7.40	-0.46	-13.76	2 21 53.18	-6.39	15 32 9.38	45.530 .620	B	15.9 +54 31 47.3	-11.4
2	B. D. +54° 565	9	24 53.28	0.46	13.76	2 24 39.06	6.38	15 32 9.40	41.435 .530	B	15.8 54 27 15.6	11.1
3	B. D. +40° 567	8	34 32.00	0.42	13.76	2 34 17.82	5.43	1 58 7.78	42.635 .695	B	2.0 40 53 22.9	13.1
4	B. D. +40° 570	9	35 58.04	0.42	13.76	2 35 43.86	5.44	1 58 7.80	47.555 .645	B	2.0 40 58 10.7	12.9
5	B. D. +42° 614	9	37 25.92	0.43	13.76	2 37 11.73	5.55	4 8 8.38	43.650 .650	A	4.2 43 6 58.7	12.3
6	B. D. +44° 569	9	38 31.78	-0.43	-13.76	2 38 17.59	5.67	6 8 8.68	45.300 .355	A	6.2 +45 10 46.9	-11.6
7	B. D. +44° 573	8	40 4.27	-0.43	-13.76	2 39 50.08	5.66	6 8 8.32	48.040 .100	C	6.1 +45 1 58.4	-11.5
8	B. D. +44° 577	9	41 20.56	0.43	13.76	2 41 6.37	5.65	5 52 8.45	43.460 .525	B	5.9 44 50 56.4	11.4
9	B. D. +46° 641	9	42 48.12	0.41	13.76	2 42 33.92	5.77	7 48 8.15	47.560 .580	A	7.9 46 48 16.3	10.8
10	B. D. +43° 583	8	43 46.06	0.43	13.76	2 43 31.87	5.56	4 22 8.55	43.160 .240	A	4.4 43 24 4.2	11.5
11	B. D. +43° 593	9	46 12.42	0.43	13.76	2 45 58.23	5.56	4 22 8.48	46.575 .660	A	4.4 43 21 54.9	11.2
12	B. D. +46° 652	9	47 36.57	0.44	13.77	2 47 22.36	5.77	7 52 9.55	45.765 .830	C	7.8 46 45 17.7	10.2
13	B. D. +46° 656	9	49 8.45	-0.44	-13.77	2 48 54.24	5.77	7 52 9.68	42.810 .875	A	8.0 +46 54 2.0	-10.0
14	γ Persei.....	11	57 53.51	-0.46	-13.77	2 57 .....	.....	14 8 9.65	43.215 .315		14.4 +53 7 .....	.....
15	β Persei.....	11	1 59.29	0.42	13.92	3 1 .....	.....	1 34 7.78	48.230 .350		1.6 40 34 .....	.....
16	α Persei.....	11	17 30.90	0.44	13.73	3 17 .....	.....	10 30 7.95	47.930 .040		10.6 49 30 .....	.....
17	2 H. Camelop.....	11	21 19.15	-0.49	-13.66	3 21 .....	.....	20 36 9.20	44.560 .670		21.4 +59 35 .....	.....
									.540 .780			

1900 SEPTEMBER 25.

CLAMP WEST.

KING, OBSERVER.

HAMMOND, ASSISTANT.

18	α Cassiopeiae.....	11	39 29.02	-0.51	-13.92	0 39 .....	.....	8 44 8.92	48.515 .610		8.8 +47 44 .....	.....
19	γ Cassiopeiae.....	11	51 1.13	0.61	13.78	0 50 .....	.....	21 10 10.05	48.520 .655		22.0 60 10 .....	.....
20	ξ Andromedae.....	11	16 47.24	0.49	14.19	1 16 .....	.....	6 0 8.62	48.675 .795		6.0 45 0 .....	.....
21	δ Cassiopeiae.....	11	19 37.84	-0.60	-14.25	1 19 .....	.....	20 44 10.00	43.440 .560		21.5 +59 43 .....	.....
22	B. D. +48° 453	9	25 14.74	-0.52	-14.05	1 25 0.17	-5.83	9 50 8.98	46.625 .680	B	9.9 +48 50 1.9	-19.2
23	B. D. +50° 298	9	26 33.35	0.53	14.05	1 26 18.77	5.96	11 42 8.98	47.675 .705	B	11.8 50 39 10.8	18.8
24	B. D. +48° 477	9	30 23.67	0.52	14.06	1 30 9.09	5.84	9 42 9.00	46.200 .250	B	9.8 48 41 54.6	18.7
25	B. D. +50° 314	9	31 5.26	0.53	14.06	1 30 50.67	5.98	11 46 9.48	44.240 .300	B	11.9 50 45 18.7	18.3
26	B. D. +44° 341	9	32 50.53	0.49	14.06	1 32 35.98	5.61	5 54 8.55	45.995 .060	B	5.9 44 53 45.4	19.1
27	B. D. +44° 347	9	35 8.23	-0.49	-14.06	1 34 53.68	-5.60	5 32 8.50	44.030 .070	B	5.6 +44 31 7.2	-19.0
28	B. D. +42° 352	9	36 23.79	-0.48	-14.06	1 36 9.25	-5.53	4 12 9.22	45.610 .650	B	4.2 +43 8 23.7	-19.1
29	B. D. +42° 356	9	37 37.53	0.48	14.06	1 37 22.99	5.54	4 12 9.52	47.845 .925	B	4.2 43 12 20.2	19.0
30	B. D. +42° 361	9	38 33.75	0.48	14.06	1 38 19.21	5.54	4 12 9.25	47.535 .645	B	4.2 43 9 1.2	18.9
31	B. D. +42° 370	9	40 36.85	0.48	14.07	1 40 22.30	5.54	4 12 9.42	48.635 .710	B	4.2 43 12 35.2	18.6
32	B. D. +43° 373	8	43 31.41	0.48	14.07	1 43 16.86	5.55	4 12 9.25	44.640 .735	A	4.3 43 14 33.4	18.4
33	B. D. +42° 388	9	45 23.27	-0.48	-14.07	1 45 8.72	-5.54	4 2 9.08	47.085 .145	A	4.1 +43 2 4.8	-18.2
34	B. D. +53° 416	9	48 28.41	-0.55	-14.07	1 48 13.79	-6.24	14 24 9.48	47.010 .085		14.6 +53 24 14.4	-15.8
35	B. D. +40° 423	9	55 29.14	0.47	14.08	1 55 14.59	5.44	1 44 8.22	46.860 .950		1.8 40 43 57.6	17.6
36	B. D. +53° 460	9	3 45.82	0.55	14.08	2 3 31.19	6.28	14 22 9.75	47.765 .825		14.6 53 22 28.8	14.1
37	B. D. +52° 549	9	8 49.01	0.54	14.09	2 8 34.38	6.27	14 8 9.45	42.830 .860		14.3 53 6 53.2	13.6
38	B. D. +52° 563	9	12 27.00	0.54	14.09	2 12 12.37	6.28	14 8 9.65	43.315 .425		14.3 53 7 3.5	13.1
39	B. D. +52° 592	9	25 23.98	-0.54	-14.10	2 25 9.34	-6.23	13 24 10.02	45.280 .325		13.6 +52 23 40.0	-11.7
40	B. D. +52° 595	9	27 37.73	-0.54	-14.10	2 27 23.09	-6.23	13 24 9.92	45.140 .205		13.6 +52 23 37.3	-11.5
41	B. D. +52° 602	9	31 13.38	0.54	14.11	2 30 58.73	6.23	13 24 10.08	42.690 .770		13.6 52 22 50.6	11.0
42	B. D. +52° 609	9	33 44.73	0.54	14.11	2 33 30.08	6.23	13 24 10.10	41.805 .910		13.6 52 22 33.8	10.8
43	B. D. +52° 617	9	36 40.51	0.54	14.11	2 36 25.86	6.23	13 24 10.12	43.760 .805	B	13.5 52 19 57.5	10.4
44	B. D. +43° 566	9	37 54.50	0.49	14.11	2 37 39.90	5.62	4 52 9.20	48.445 .465	B	4.9 43 52 30.8	12.2
45	B. D. +47° 692	9	39 18.93	-0.51	-14.11	2 39 4.31	-5.87	8 46 9.52	48.745 .805	B	8.8 +47 43 28.0	-11.2

Time.	Barom.	Att. Ther.	Ex. Ther.	Telescope micrometer bisections are made at III and V, except as noted below.	No.	Eq. Points.
d h m	in.	°	°			
24 2 26	30.06	64.0	64.1	5.24 Bisections at I, III.	14	321 5 41.7
2 51	30.06	64.0	64.2	14, 15, 16, 17, 18, 19, 20, 21. Bisections at I, II, VI, VII.	15	41.1
3 25	30.065	62.0	65.0		16	42.9
25 0 41	30.085	67.4	66.1		17	41.6
1 20	30.08	66.8	65.6	Note.	18	41.0
1 49	30.08	66.3	65.0	Sept. 25. Clouds at beginning and end.	19	41.0
2 19	30.07	66.1	65.0	Adopted Equator Point. ... 1-17 321° 5' 41".64	20	41.2
				18-45 { 1h.030 40.82	21	40.1
				{ 3.158 42.68		

NINE-INCH TRANSIT CIRCLE.

NO.	NAME.	THDS.	MEAN THREAD.	INST. COR.	CLOCK COR.	APPARENT R. A.	RED. TO 1900.0	CIRCLE READING.	MICROMETER READINGS.	REFR.	APPARENT DECL.	RED. TO 1900.0
			m s	s	s	h m s	s	° ' "	r r		° ' "	"
1	B. D. $+47^{\circ}$ 698	9	41 40.66	-0.51	14.12	2 41 26.03	-5.87	8 46 9.62	49.400 .440	B	8.8 $+47$ 46 54.4	-10.9
2	B. D. $+42^{\circ}$ 633	9	42 32.85	-0.48	14.12	2 42 18.25	-5.53	3 22 9.38	48.075 .095	A	3.4 42 19 10.2	12.1
3	B. D. $+42^{\circ}$ 637	9	43 47.67	-0.48	14.12	2 43 33.07	-5.53	3 22 8.58	40.685 .755		3.4 42 23 15.0	11.9
4	B. D. $+42^{\circ}$ 638	9	44 26.39	-0.48	14.12	2 44 11.79	-5.56	3 54 9.25	47.585 .		3.9 42 54 12.4	11.7
5	B. D. $+46^{\circ}$ 648	8	45 20.31	-0.50	14.12	2 45 5.69	-5.78	7 26 8.68	46.665 .740		7.5 $+46$ 25 57.4	-10.8
6	γ Persei	11	57 53.89	-0.54	-14.04	2 57 .	.	14 8 9.48	43.385		14.3 $+53$ 7	.
7	β Persei	11	1 59.64	-0.47	14.19	3 1 .	.	1 34 8.75	48.220 .355		1.6 40 34	.
8	α Persei	11	17 31.48	-0.52	14.19	3 17 .	.	10 30 9.08	47.900 .995		10.6 49 30	.
9	2 H. Camelop.	6	21 19.77	-0.60	-14.13	3 21 .	.	20 36 9.98	44.625 .625		21.4 $+59$ 35	.

1900 SEPTEMBER 26.

CLAMP WEST.

KING, OBSERVER.

BOEGER, ASSISTANT.

10	σ Cassiopeiae	8	39 29.57	-0.50	-14.47	0 39 .	.	8 44 8.25	48.700		8.6 $+47$ 44	.
11	γ Cassiopeiae	11	51 1.83	-0.60	14.47	0 50 .	.	21 10 8.75	48.660 .795		21.5 60 10	.
12	ξ Andromedae	11	16 47.59	-0.48	14.54	1 16 .	.	6 0 7.32	48.760 .875		5.9 45 0	.
13	δ Cassiopeiae	11	19 38.08	-0.59	-14.48	1 19 .	.	20 44 8.85	43.530 .665		21.0 $+59$ 43	.
14	B. D. $+48^{\circ}$ 454	9	25 46.72	-0.50	-14.49	1 25 31.73	-5.83	9 30 8.02	41.995 .125	A	9.4 $+48$ 31 47.4	-19.5
15	B. D. $+48^{\circ}$ 463	9	27 37.07	-0.50	-14.49	1 27 22.08	-5.83	9 30 8.10	38.450 .445	A	9.3 48 30 39.1	19.3
16	B. D. $+51^{\circ}$ 331	9	28 19.78	-0.52	-14.49	1 28 .77	-6.03	12 20 7.95	45.010 .090	C	12.2 51 19 32.7	18.8
17	B. D. $+51^{\circ}$ 339	9	30 45.51	-0.52	-14.49	1 30 30.50	-6.03	12 20 7.92	49.645 .720		12.1 51 14 35.4	18.5
18	B. D. $+51^{\circ}$ 363	9	34 23.63	-0.52	-14.48	1 34 8.63	-6.05	12 20 7.62	51.975 .035		12.2 $+51$ 21 45.7	-18.1
19	B. D. $+53^{\circ}$ 395	9	43 32.38	-0.53	-14.48	1 43 17.37	-6.25	14 26 8.10	44.165 .210		14.3 $+53$ 25 19.3	-16.7
20	B. D. $+54^{\circ}$ 392	9	45 3.55	-0.55	-14.48	1 44 48.52	-6.39	15 56 7.90	42.870 .880		15.8 54 54 54.8	16.2
21	B. D. $+53^{\circ}$ 402	9	45 32.99	-0.53	-14.48	1 45 17.98	-6.26	14 26 8.45	45.805 .845	B	14.2 53 22 36.5	16.5
22	B. D. $+53^{\circ}$ 428	9	51 57.77	-0.54	-14.48	1 51 42.75	-6.34	15 6 8.55	40.735 .790	A	15.0 54 7 28.4	15.6
23	B. D. $+53^{\circ}$ 439	9	55 59.81	-0.54	-14.48	1 55 44.79	-6.34	15 6 8.60	39.220 .275	B	14.9 $+54$ 0 31.5	-15.1
24	B. D. $+53^{\circ}$ 451	9	0 24.40	-0.54	-14.48	2 0 9.38	-6.34	14 50 8.12	46.525 .560		14.7 $+53$ 50 3.8	-14.6
25	B. D. $+53^{\circ}$ 459	9	3 42.31	-0.54	-14.48	2 3 27.29	-6.35	14 50 8.20	41.480 .530	A	14.7 53 51 42.0	14.3
26	B. D. $+53^{\circ}$ 474	9	6 47.57	-0.54	-14.48	2 6 32.55	-6.35	14 50 8.22	41.355 .405	B	14.6 53 45 11.6	13.9
27	B. D. $+53^{\circ}$ 497	9	11 56.33	-0.54	-14.48	2 11 41.31	-6.36	14 48 8.52	39.960 .030	A	14.7 53 49 13.3	13.3
28	B. D. $+53^{\circ}$ 513	9	15 15.94	-0.54	-14.48	2 15 0.92	-6.37	14 48 8.62	45.250 .330		14.7 $+53$ 47 40.1	-12.9
29	B. D. $+53^{\circ}$ 519	9	17 41.56	-0.54	-14.48	2 17 26.54	-6.37	14 48 8.58	45.045 .125	B	14.6 $+53$ 44 23.0	-12.6
30	B. D. $+53^{\circ}$ 539	9	25 51.42	-0.54	-14.48	2 25 36.40	-6.39	14 52 8.52	46.890 .955		15.1 53 52 11.7	11.6
31	B. D. $+53^{\circ}$ 547	9	28 56.08	-0.54	-14.48	2 28 41.06	-6.39	14 52 8.38	49.125 .180		14.8 53 52 54.0	11.2
32	B. D. $+49^{\circ}$ 741	9	34 39.13	-0.51	-14.47	2 34 24.15	-6.03	10 40 8.48	41.350 .365	B	10.4 49 35 8.1	11.5
33	B. D. $+49^{\circ}$ 743	9	34 46.02	-0.51	-14.47	2 34 31.04	-6.04	10 40 8.35	41.315 .425	A	10.5 $+49$ 41 33.2	-11.5
34	B. D. $+42^{\circ}$ 610	11	36 55.26	-0.47	-14.47	2 36 40.32	-5.57	3 36 9.05	44.720 .740		3.5 $+42$ 35 18.5	-12.8
35	B. D. $+40^{\circ}$ 577	9	37 41.46	-0.46	-14.47	2 37 26.53	-5.49	2 2 8.70	44.885 .950	(A)	2.1 41 4 34.8	13.1
36	B. D. $+40^{\circ}$ 590	9	40 7.90	-0.46	-14.47	2 39 52.97	-5.49	2 2 8.50	48.795 .830		2.1 41 2 35.8	12.8
37	B. D. $+45^{\circ}$ 660	9	40 54.57	-0.48	-14.47	2 40 39.62	-5.75	6 30 8.92	46.680 .735		6.4 45 29 59.2	11.7
38	B. D. $+47^{\circ}$ 700	9	42 4.73	-0.50	-14.47	2 41 49.76	-5.92	9 2 9.82	47.625 .700		8.9 $+48$ 2 20.9	-11.2

Time.	Barom.	Att. Ther.	Ex. Ther.	Telescope micrometer bisections are made at III and V, except as noted below.				No.	Eq. Points.
d h m	in.	°	°						° ' "
25 2 48	30.06	65.8	64.7	1, 15, 32, 36.	Bisections at I, III.		6	321	5 42.2
3 26	30.05	65.2	64.2	2.	Bisections at II, III.		7		41.9
26 0 35	29.88	73.6	73.3	4.	Bisection at V.		8		43.0
1 20	29.88	74.0	74.2	5, 33.	Bisections at V, VII.		9		43.6
1 47	29.87	74.0	74.2	6.	Bisections at II, VI, VII.		10		40.6
2 16	29.87	73.8	73.8	7, 8, II, 12, 13.	Bisections at I, II, VI, VII.		11		41.2
				9, 19.	Bisections at I, II.		12		41.1
				10.	Bisections at VI, VII.		13		40.5
				20.	Bisections at III, IV.				
				21, 35.	Bisections at IV, V.				
Note.									
Sept. 26. Stars unsteady and somewhat diffuse.									
Adopted Equator Point. . . . 1-9 1^h 03 ⁰ 321° 5' 40'' .82									
10-40 3^h 158 42 .68									
10-40 1^h 03 ⁰ 40 .85									
10-40 3^h 158 41 .68									

OBSERVATIONS OF EROS AND REFERENCE STARS.

B 9

NO.	NAME.	THDS.	MEAN THREAD.	INST. COR.	CLOCK COR.	APPARENT R. A.	RED. TO 1900.0	CIRCLE READING.	MICROMETER READINGS.	REFR.	APPARENT DECL.	RED. TO 1900.0
			m s	s	s	h m s	s	° ' "	r r	"	° ' "	"
1	B. D. +44° 582	9	43 25.37	-0.48	-14.47	2 43 10.42	-5.71	6 0 8.10	45.205 .265	5.9	44 59 29.6	-11.7
2	B. D. +45° 667	9	44 30.16	0.48	14.47	2 44 15.21	5.75	6 40 9.78	45.770 .785	6.5	45 39 42.3	11.2
3	B. D. +47° 720	9	45 58.21	-0.49	-14.47	2 45 43.25	-5.88	8 30 8.22	47.410 .445	8.4	47 30 14.3	10.6
4	γ Persei	11	57 54.35	-0.53	-14.48	2 57	...	14 8 9.90	43.215 .380 .210 .415	14.0	53 7	...
5	β Persei	11	1 59.95	0.46	14.48	3 1	...	1 33 59.12	48. ... .805 .740 .980	1.6	40 34	...
6	α Persei	11	17 31.76	0.51	14.45	3 17	...	10 30 8.48	47.835 .970 .865 .990	10.3	49 30	...
7	2 H. Camelop.	11	21 20.14	-0.59	-14.46	3 21	...	20 36 9.10	44.650 .775 .660 .810	20.9	59 35	...

1900 SEPTEMBER 27.

CLAMP WEST.

KING, OBSERVER.

BOEGER, ASSISTANT.

8	α Cassiopeiae	11	39 29.65	-0.54	-14.50	0 39	...	8 44 8.92	48.565 .700 .620 .740	8.6	47 44	...
9	γ Cassiopeiae	11	51 1.99	0.64	14.57	0 50	...	21 10 10.08	48. ... .730 .665 .800	21.6	60 10	...
10	ξ Andromedae	10	16 47.84	0.52	14.73	1 16	...	6 0 8.85	48.735 .890 .760 .910	5.9	45 0	...
11	δ Cassiopeiae	11	19 38.31	-0.63	-14.65	1 19	...	20 44 10.72	43.590 .615 .590 .640	21.1	59 43	...
12	B. D. +48° 455	...	...	...	...	1 26	...	9 16 8.78	48.550 .580	9.1	48 16 36.8	-19.8
13	B. D. +48° 470	9	28 41.39	-0.54	-14.60	1 28 26.25	-5.89	10 4 8.38	44.630 .650	9.9	49 3 21.9	19.4
14	B. D. +44° 329	9	29 41.01	0.52	14.60	1 29 25.89	5.62	5 26 8.22	44.340 .435	5.4	44 25 12.5	20.1
15	B. D. +47° 460	9	30 41.33	0.54	14.60	1 30 26.19	5.86	9 14 7.95	43.680 .740	9.1	48 13 2.9	19.3
16	B. D. +41° 321	9	34 2.15	0.50	14.60	1 33 47.05	5.51	3 14 8.65	47.490 .680	3.2	42 14 12.0	20.0
17	B. D. +42° 351	8	36 18.62	-0.50	-14.60	1 36 3.52	-5.53	3 28 7.42	47.905 .955	C 3.3	42 21 52.3	-19.7
18	B. D. +42° 354	9	36 36.68	-0.50	-14.60	1 36 21.58	-5.53	3 28 7.30	47.100 .250	A 3.5	42 31 16.1	-19.7
19	B. D. +42° 360	9	38 26.00	0.51	14.60	1 38 10.89	5.55	3 42 7.58	44.775 .860	A 3.7	42 44 33.1	19.4
20	B. D. +42° 373	9	41 46.06	0.51	14.60	1 41 30.95	5.55	3 42 7.42	45.690 .715	C 3.6	42 35 9.9	19.1
21	B. D. +42° 375	9	42 16.37	0.51	14.60	1 42 1.26	5.56	3 42 7.50	50.225 .270	3.7	42 43 2.5	19.0
22	B. D. +41° 352	12	43 16.22	0.50	14.60	1 43 1.12	5.53	3 14 8.25	53.575 .660	B 3.2	42 12 52.3	19.0
23	B. D. +42° 390	9	45 42.54	-0.50	-14.60	1 45 27.44	-5.54	3 14 8.32	44.340 .420	A 3.3	42 16 25.0	-18.8
24	B. D. +41° 364	9	47 30.67	-0.50	-14.60	1 47 15.57	-5.53	3 4 8.38	42.440 .550	3.0	42 2 33.8	-18.6
25	B. D. +39° 431	9	48 58.01	0.49	14.59	1 48 42.93	5.44	1 10 7.88	47.520 .605	1.2	40 10 8.7	18.8
26	B. D. +38° 391	9	55 8.33	0.49	14.59	1 54 53.75	5.40	0 8 8.10	46.005 .105	0.2	39 7 39.0	18.4
27	B. D. +53° 521	9	17 50.23	0.57	14.58	2 17 35.08	6.35	14 20 9.28	44.460 .515	14.3	53 19 24.1	12.9
28	B. D. +52° 587	9	23 13.88	0.57	14.58	2 22 58.73	6.30	13 38 9.60	43.525 .555	13.6	52 37 5.6	12.4
29	B. D. +51° 587	9	25 18.86	-0.56	-14.58	2 25 3.72	-6.24	12 52 10.05	46.310 .370	12.8	51 51 58.9	-12.4
30	B. D. +51° 594	9	28 0.89	-0.56	-14.58	2 27 45.75	-6.21	12 36 9.25	44.425 .545	B 12.5	51 32 9.0	-12.1
31	B. D. +51° 599	9	30 17.02	0.56	14.58	2 30 1.88	6.21	12 36 9.20	42.945 .035	B 12.5	51 31 40.3	11.8
32	B. D. +51° 604	9	31 58.71	0.56	14.58	2 31 43.57	6.22	12 36 9.12	45.030 .090	A 12.6	51 38 47.9	11.6
33	B. D. +51° 618	9	36 0.11	0.56	14.58	2 35 44.97	6.21	12 36 9.48	43.735 .815	C 12.4	51 28 42.7	11.1
34	B. D. +50° 617	9	37 45.41	0.56	14.58	2 37 30.27	6.16	11 48 9.50	46.940 .975	11.7	50 48 9.0	11.1
35	B. D. +51° 626	9	40 14.56	-0.56	-14.58	2 39 59.42	-6.24	12 48 9.50	44.030 .015	12.7	51 47 14.6	-10.6
36	B. D. +51° 628	9	40 27.65	-0.56	-14.58	2 40 12.51	-6.23	12 48 9.85	43.610 .695	B 12.7	51 43 52.0	-10.5
37	B. D. +49° 773	...	...	...	...	2 41	...	10 40 8.52	45. ... .975	10.6	49 39 45.3	10.9
38	B. D. +49° 782	9	43 19.96	0.55	14.57	2 43 4.84	6.06	10 40 8.02	44.385 .450	B 10.5	49 36 4.5	10.7
39	B. D. +45° 665	9	44 21.17	0.52	14.57	2 44 6.08	5.77	6 32	...	...	45 25	...
40	B. D. +45° 669	9	45 16.42	0.52	14.57	2 45 1.33	5.78	6 32	...	...	45 34	...
41	B. D. +45° 679	9	49 35.87	-0.52	-14.57	2 49 20.78	-5.76	6 32 9.18	48.780 .805	C 6.4	45 26 12.6	-10.9

Time.	Barom.	Att. Ther.	Ex. Ther.	Telescope micrometer bisections are made at III and V, except as noted below.				No.	Eq. Points.
d h m	in.	°	°						° ' "
26 2 46	29.87	73.5	73.4	4, 6, 7, 8, 10, 11.	Bisections at I, II, VI, VII.			4	321 5 41.7
3 24	29.86	73.3	73.3	5, 9.	Bisections at II, VI, VII.			5	41.7
27 0 42	29.88	73.0	72.3	17, 20, 35.	Bisections at I, III.			6	41.1
1 21	29.89	73.0	72.0	18, 22, 36.	Bisections at V, VII.			7	42.2
1 50	29.885	72.2	71.2	37.	Bisection at VII.			8	41.6
2 19	29.885	71.0	69.6					9	41.8
2 51	29.88	70.9	69.5					10	42.2
3								11	41.8
Note.									
Sept. 27. Very bad seeing; at times very thick; many stars too faint to observe. Clouds at beginning and end.									
Adopted Equator Point.... 1-7 { 1 ^h .030 321° 5' 40".85 3 .158 41 .68 8-41 { 1 .030 41 .85 3 .158 42 .45									

B 10

NINE-INCH TRANSIT CIRCLE.

NO.	NAME.	THDS.	MEAN THREAD.	INST. COR.	CLOCK COR.	APPARENT R. A.	RED. TO 1900.0	CIRCLE READING.	MICROMETER READINGS.	REFR.	APPARENT DECL.	RED. TO 1900.0
			m s	s	s	h m s	s	° ' "	r r	"	° ' "	"
1	γ Persei	11	57 54.49	-0.57	-14.84	2 57 .....	....	14 8 9.10	43. ... .310 .445	14.1	+53 7 ....	....
2	β Persei	11	2 0.22	0.50	14.68	3 1 .....	....	1 34 7.48	48.295 .320 .470	1.6	40 34 ....	....
3	α Persei	11	17 31.94	0.55	14.56	3 17 .....	....	10 30 7.40	47.970 .005 .100	10.4	49 30 ....	....
4	2 H. Camelop.	11	21 20.24	-0.63	-14.48	3 21 .....	....	20 36 8.98	44.680 .705 .820 .845	21.0	+59 35 ....	....

1900 OCTOBER 6.

CLAMP WEST.

BROWN, ASSISTANT.

KING, OBSERVER.

5	α Cassiopeiae	11	39 33.12	-0.55	-17.89	0 39 .....	....	8 44 8.42	48.785 .815 .950	8.6	+47 44 ....	....
6	γ Cassiopeiae	11	51 5.34	0.69	17.77	0 50 .....	....	21 10 8.78	49. ... .100 .200	21.7	60 10 ....	....
7	ξ Andromedae	10	16 51.16	0.52	17.92	1 16 .....	....	6 0 6.05	49.050 .060 .240	5.9	45 0 ....	....
8	δ Cassiopeiae	11	19 41.66	-0.68	-17.79	1 19 .....	....	20 44 14.12	43.560 .570 .740	21.2	+59 43 ....	....
9	B. D. +47° 442	9	26 41.39	-0.55	-17.85	1 26 22.99	-5.94	8 54 7.42	48.590 .580 .650	8.8	+47 54 35.1	-22.2
10	B. D. +47° 450	9	28 29.81	0.55	17.85	1 28 11.41	5.95	8 54 7.60	49.505 .180 .580	8.8	47 54 53.0	22.0
11	B. D. +47° 463	9	31 4.78	0.55	17.85	1 30 46.38	5.96	8 54 7.38	50.165 .905 .100	8.7	47 48 38.7	21.7
12	B. D. +44° 335	9	32 29.30	0.52	17.85	1 32 10.93	5.75	5 16 7.60	45.800 .680 .750	5.2	44 18 53.3	22.0
13	B. D. +44° 346	9	35 9.46	0.52	17.85	1 34 51.09	5.76	5 16 7.45	49.605 .570 .700	5.2	44 16 51.1	21.7
14	B. D. +43° 364	9	40 39.88	-0.52	-17.85	1 40 21.51	-5.78	5 16 7.32	45.565 .435 .500	5.1	+44 9 6.8	-21.2
15	B. D. +39° 421	9	46 49.62	-0.49	-17.85	1 46 31.28	-5.58	1 10 6.95	47.130 .280 .350	1.1	+40 3 32.7	-21.1
16	B. D. +40° 394	9	47 41.33	0.49	17.85	1 47 22.99	5.59	1 10 6.88	51.210 .730 .800	1.3	40 14 32.1	20.9
17	B. D. +39° 434	9	49 16.64	0.49	17.85	1 48 58.30	5.59	1 10 6.92	46.660 .815 .880	1.3	40 13 4.9	20.8
18	B. D. +39° 447	9	52 46.28	0.49	17.85	1 52 27.94	5.60	1 10 6.98	46.690 .850 .920	1.1	40 3 25.0	20.4
19	B. D. +39° 448	9	54 0.28	0.49	17.85	1 53 41.94	5.60	1 10 6.85	41.790 .435 .500	1.1	40 5 3.2	20.3
20	B. D. +39° 454	9	56 9.23	-0.49	-17.85	1 55 50.89	-5.61	1 10 6.82	41.430 .460 .530	1.2	+40 11 23.7	-20.0
21	B. D. +39° 468	9	0 54.29	-0.49	-17.86	2 0 35.94	-5.62	1 8 7.20	45.855 .435 .500	1.2	+40 7 35.0	-19.5
22	B. D. +50° 587	9	28 48.63	0.57	17.86	2 28 30.20	6.38	11 46 7.70	44.370 .970 .100	11.7	50 45 17.1	14.4
23	B. D. +49° 733	9	33 13.93	0.57	17.86	2 32 55.50	6.33	11 6 7.85	44.910 .010 .080	11.0	50 5 26.8	13.9
24	B. D. +49° 752	9	37 10.70	0.57	17.86	2 36 52.27	6.33	10 58 7.75	45.975 .100 .170	10.9	49 57 47.7	13.4
25	B. D. +46° 622	9	38 17.98	0.53	17.86	2 37 59.59	6.06	7 26 7.82	45.015 .680 .750	7.4	46 25 25.4	14.0
26	B. D. +46° 628	8	39 47.50	-0.54	-17.86	2 39 29.10	-6.09	7 50 7.78	43.585 .725 .790	7.8	+46 48 56.8	-13.7
27	B. D. +46° 638	9	42 15.06	-0.54	-17.86	2 41 56.66	-6.07	7 34 7.30	43.725 .990 .100	7.5	+46 33 0.4	-13.5
28	B. D. +45° 662	7	43 19.37	0.53	17.86	2 43 0.98	6.03	7 0 7.92	44.960 .715 .780	7.0	45 59 23.9	13.4
29	B. D. +40° 612	9	44 29.72	0.49	17.86	2 44 11.37	5.72	1 54 6.08	44.705 .350 .420	1.9	40 53 11.9	14.3
30	B. D. +44° 591	9	45 31.06	0.52	17.86	2 45 12.68	5.95	5 36 7.10	46. ... .765 .830	5.6	44 39 1.7	13.4
31	B. D. +44° 593	7	45 41.16	0.52	17.86	2 45 22.78	5.94	5 36 7.20	45.720 .460 .530	5.5	44 29 8.7	13.5
32	B. D. +44° 598	9	49 53.29	-0.52	-17.87	2 49 34.90	-5.94	5 36 6.98	43.350 .685 .750	5.5	+44 34 51.0	-12.9
33	γ Persei	11	57 58.09	-0.60	-17.82	2 57 .....	....	14 8 7.08	43.540 .730 .800	14.2	+53 7 ....	....
34	β Persei	11	2 3.74	0.49	17.98	3 1 .....	....	1 34 6.50	48.490 .515 .580	1.6	40 34 ....	....
35	α Persei	11	17 35.55	0.56	17.87	3 17 .....	....	10 30 7.82	48. ... .225 .295	10.5	49 30 ....	....
36	2 H. Camelop.	11	21 23.98	-0.68	-17.81	3 21 .....	....	20 36 8.50	.125 .265 44.890 .040 .080	21.2	+59 35 ....	....

Time.	Barom.	Att. Ther.	Ex. Ther.	Telescope micrometer bisections are made at III and V, except as noted below.		No.	Eq. Points.
d h m	in.	°	°				° ' "
27 2 51	29.88	70.9	69.5	1, 35.	Bisections at II, VI, VII.	1	321° 5' 42.3
3 24	29.88	71.0	70.2	2, 3, 4, 5, 7, 8, 33, 34, 36.	Bisections at I, II, VI, VII.	2	42.1
6 0 55	29.95	72.0	70.8	6.	Bisections at VI, VII.	3	42.7
1 20	29.95	71.6	70.5	24, 27.	Bisections at I, III.	4	42.7
1 50	29.95	71.1	70.1	26, 31.	Bisections at V, VII.	5	43.0
2 21	29.95	70.5	69.7	28, 29.	Bisections at III, IV.	6	42.9
2 51	29.94	70.0	69.0	30.	Bisection at V.	7	43.1
3 27	29.94	69.4	68.2			8	43.1
Note.							
Oct. 6. Clouds at beginning and stars difficult to see. Much better at end.							
Adopted Equator Point. . . . 5-36 ^{11.030} _{13.158} 321° 5' 43''.02 43.62							
						33	43.2
						34	43.3
						35	43.6
						36	44.4

NO.	NAME.	THDS.	MEAN THREAD.	INST. COR.	CLOCK COR.	APPARENT R. A.	RED. TO 1900.0	CIRCLE READING.	MICROMETER READINGS.	REFR.	APPARENT DECL.	RED. TO 1900.0
			m s	s	s	h m s	s	° ' "	r .010	"	° ' "	"
1	B. D. +46° 373	9	25 13.30	-0.25	-19.16	1 24 53.89	-5.93	8 4 9.25	45.005	8.3	47 3 28.4	-23.5
2	B. D. +48° 455	9	25 51.81	0.25	19.16	1 25 32.40	6.01	9 16 9.22	48.790	9.6	48 16 41.1	23.3
3	B. D. +45° 376	9	28 25.60	0.25	19.16	1 28 6.19	5.85	6 24 8.80	49.715	6.7	45 28 11.2	23.3
4	B. D. +45° 383	9	29 41.07	0.25	19.16	1 29 21.66	5.85	6 24 8.72	52.570	6.5	45 19 24.6	23.2
5	B. D. +46° 397	9	30 44.09	0.25	19.16	1 30 24.68	5.95	7 50 17.78	44.100	8.1	46 49 16.4	22.9
6	B. D. +44° 337	9	32 45.86	-0.25	-19.16	1 32 26.45	-5.86	6 10 8.32	45.870	6.4	45 9 41.3	-22.9
7	B. D. +43° 343	10	33 46.29	-0.24	-19.16	1 33 26.89	-5.79	4 54 8.80	43.955	5.0	43 53 2.3	-22.9
8	B. D. +44° 352	9	36 16.14	0.25	19.16	1 35 56.73	5.87	6 4 8.82	48.900	6.3	45 4 42.0	22.5
9	B. D. +44° 354	9	37 36.56	0.25	19.16	1 37 17.15	5.86	5 50 8.55	45.150	6.0	44 49 27.7	22.4
10	B. D. +41° 347	9	42 10.29	0.24	19.16	1 41 50.89	5.72	2 56			41 55	
11	B. D. +40° 400	9	48 52.57	0.24	19.17	1 48 33.17	5.66	1 24 8.60	47.800	1.5	40 24 13.9	21.7
12	B. D. +40° 406	9	51 39.07	-0.24	-19.17	1 51 19.66	-5.67	1 24 8.50	44.315	1.4	40 16 41.1	-21.4
13	B. D. +40° 412	9	52 45.84	-0.24	-19.17	1 52 26.43	-5.68	1 24 8.68	42.945	1.5	40 25 56.0	-21.2
14	B. D. +37° 452	9	54 43.54	0.24	19.17	1 54 24.13	5.57	359 8 8.48	44.355	0.8	38 7 6.1	21.3
15	B. D. +37° 465	9	57 3.15	0.24	19.17	1 56 43.74	5.57	359 8 8.45	44.880	0.9	38 4 3.8	21.1
16	B. D. +37° 468	9	57 31.25	0.24	19.17	1 57 11.84	5.58	359 8 8.65	44.010	0.8	38 10 14.1	21.0
17	B. D. +37° 488	8	3 19.49	0.24	19.17	2 3 0.08	5.59	359 8			38 3	
18	B. D. +37° 589	9	32 35.09	-0.24	-19.19	2 32 15.66	5.61	358 32 8.42	45.540	1.4	37 31 27.8	-17.1
19	B. D. +39° 613	9	36 39.23	-0.24	-19.19	2 36 19.80	-5.71	0 22 8.72	47.760	0.5	39 22 12.4	-16.3
20	B. D. +40° 581	9	38 18.12	0.24	19.19	2 37 58.69	5.77	1 18 8.35	48.930	1.5	40 21 50.6	16.0
21	B. D. +39° 628	9	40 3.05	0.24	19.19	2 39 43.62	5.76	1 18 8.08	47.590	1.3	40 11 44.0	15.8
22	B. D. +41° 538	9	41 7.95	0.24	19.19	2 40 48.52	5.85	2 46 14.85	45.330	2.9	41 45 33.7	15.4
23	B. D. +41° 541	9	41 51.59	0.24	19.19	2 41 32.16	5.83	2 28 8.95	44.280	2.6	41 27 7.7	15.3
24	B. D. +41° 543	9	42 37.79	-0.24	-19.19	2 42 18.36	-5.87	3 0 8.82	47.220	3.1	42 0 4.4	-15.1
25	B. D. +40° 610	9	44 16.78	-0.24	-19.19	2 43 57.35	-5.78	1 26 8.88	42.465	1.5	40 24 32.6	-15.2
26	B. D. +41° 550	9	44 32.63	0.24	19.19	2 44 13.20	5.84	2 36 8.98	44.875	2.7	41 32 4.7	15.0
27	B. D. +41° 556	9	46 20.04	-0.24	-19.19	2 46 0.61	-5.85	2 36 8.62	49.505	2.7	41 36 48.1	-14.7
28	γ Persei.....	11	57 59.16	-0.26	-19.12	2 57		14 8 9.98	43.370	14.7	53 7	
29	β Persei.....	11	2 4.89	0.24	19.28	3 1		1 34 8.12	48.430	1.7	40 34	
30	α Persei.....	11	17 36.75	0.25	19.26	3 17		10 30 9.15	48.000	10.9	49 30	
31	2 H. Camelop.....	10	21 25.08	-0.28	-19.16	3 21		20 36 10.10	44.745	22.0	59 35	

KING, OBSERVER.

1900 OCTOBER 11.

CLAMP WEST.

BROWN, ASSISTANT.

32	α Cassiopeiae.....	11	39 34.93	-0.31	-19.92	0 39		8 44 9.12	48.865	.935	8.9	+47 44	
33	γ Cassiopeiae.....	11	51 7.23	0.38	19.93	0 50		21 10 10.00	48.885	.975	22.2	60 10	
34	ξ Andromedae.....	11	16 53.06	0.30	19.99	1 16		6 0 8.60	49.000	.115	6.1	45 0	
35	δ Cassiopeiae.....	11	19 43.59	-0.38	-19.96	1 19		20 44 9.75	43.815	.945	21.7	+59 43	
36	B. D. +46° 370	9	24 32.28	-0.30	-19.96	1 24 12.02	-5.90	7 30 8.40	46.365	.425	7.6	+46 29 52.3	-23.9
37	B. D. +46° 389	9	29 56.77	0.30	19.97	1 29 36.50	5.93	7 30 8.48	45.800	.830	7.5	46 23 16.0	23.3
38	B. D. +46° 393	9	30 25.57	0.30	19.97	1 30 5.30	5.94	7 34 12.55	44.350	.510	7.7	46 36 33.7	23.2
39	B. D. +46° 404	9	31 39.11	0.30	19.97	1 31 18.84	5.94	7 34 12.62	43.885	.900	7.6	46 26 42.4	23.1
40	B. D. +43° 337	9	33 5.84	0.29	19.97	1 32 45.58	5.74	4 36 8.35	44.670	.735	4.7	43 38 31.7	23.2
41	B. D. +43° 341	8	33 36.32	0.29	19.97	1 33 16.06	5.78	4 36 8.40	44.405	.495	4.6	43 31 57.2	23.2
42	B. D. +41° 329	9	36 42.72	-0.29	-19.97	1 36 22.46	-5.68	2 26 8.08	46.465	.490	2.5	+41 25 49.6	-23.1

Time.

Barom.

Att.
Ther.Ex.
Ther.

Telescope micrometer bisections are made at III and V, except as noted below.

No.

Eq. Points.

d h m

in.

°

°

10 1 20

29.895

50.9

49.3

1 50

29.895

50.1

49.1

2 20

29.89

49.6

48.6

2 50

29.89

48.9

48.2

3 26

29.875

48.5

47.6

II 0 42

29.81

55.6

56.0

1 20

29.81

55.8

56.0

I, 15, 21, 22, 25, 37, 42.
2, 24, 39.Bisections at I, III.
Bisections at IV, V.
Bisections at VI, VII.
Bisections at V, VII.
Bisections at I, II, VI, VII.Note.
Oct. 10. Seeing very poor. Stars diffuse and unsteady.Adopted Equator Point.... I-31 321° 5' 42'' .90
32-42 43 .02

28

321 5 42.6

29

42.9

30

42.9

31

43.1

32

43.2

33

42.8

34

43.4

35

42.6

OBSERVATIONS OF EROS AND REFERENCE STARS.

B 13

NO.	NAME.	THDS.	MEAN THREAD.	INST. COR.	CLOCK COR.	APPARENT R. A.	RED. TO 1900.0	CIRCLE READING.	MICROMETER READINGS.	REFR.	APPARENT DECL.	RED. TO 1900.0
			m s	s	s	h m s	s	° ' "	r r		° ' "	" "
1	B. D. +41° 342	9	41 37.36	-0.29	-19.98	1 41 17.09	-5.72	2 42 8.75	47.060 .115	2.8	+41 42 1.2	-22.5
2	B. D. +41° 353	9	43 40.34	0.29	19.98	1 43 20.07	-5.71	2 28 8.58	42.640 .745	2.6	41 29 51.3	22.3
3	B. D. +41° 362	9	47 9.23	0.28	19.98	1 46 48.97	-5.72	2 28 8.65	45.985 .040	2.4	41 21 14.1	22.0
4	B. D. +41° 374	9	50 54.52	0.28	19.98	1 50 34.26	-5.74	2 22 8.82	44.650 .755	2.5	41 24 30.0	21.5
5	B. D. +41° 377	9	51 35.58	0.28	19.98	1 51 15.32	-5.73	2 22 8.72	41.450 .575	2.4	41 16 59.5	21.5
6	B. D. +40° 415	9	54 5.26	0.28	19.98	1 53 45.00	-5.72	1 52 8.20	47.700 .770	2.0	40 52 12.3	21.2
7	B. D. +40° 421	9	55 7.33	-0.28	-19.98	1 54 47.07	-5.72	1 52 8.22	49.945 .035	2.0	+40 52 55.5	-21.1
8	B. D. +39° 464	9	0 9.19	-0.28	-19.99	1 59 48.92	-5.66	0 18 8.08	44.630 .670	0.4	+39 17 12.4	-20.8
9	B. D. +38° 408	9	0 48.54	0.28	19.99	2 0 28.27	-5.62	359 26 7.88	46.160 .215	0.5	38 25 39.8	20.8
10	B. D. +37° 486	9	2 52.96	0.27	19.99	2 2 32.70	-5.57	358 24 7.62	45.515 .580	1.5	37 23 26.3	20.7
11	B. D. +39° 609	9	36 3.93	0.28	20.01	2 35 43.64	-5.77	1 6 8.35	43.830 .900	1.2	40 4 58.4	16.5
12	B. D. +42° 613	9	37 30.97	0.29	20.01	2 37 10.67	-5.93	3 48 7.20	44.370 .430	3.9	42 47 10.2	15.8
13	B. D. +40° 582	9	38 22.29	-0.28	-20.01	2 38 2.00	-5.81	1 42 6.25	44.680 .735	1.8	+40 41 12.1	-16.1
14	B. D. +40° 589	9	39 54.99	-0.28	-20.01	2 39 34.70	-5.80	1 30 8.28	45.910 .965	1.6	+40 29 37.5	-15.9
15	B. D. +42° 628	9	41 19.35	0.29	20.01	2 40 59.05	-5.95	4 0 8.82	44.450 .510	4.1	42 59 12.5	15.3
16	B. D. +40° 602	9	42 30.43	0.28	20.01	2 42 10.14	-5.81	1 32 8.32	42.965 .060	1.6	40 33 56.2	15.6
17	B. D. +45° 665	9	44 26.89	0.30	20.02	2 44 6.57	-6.11	6 32 8.98	46.890 .985	6.5	45 25 36.3	14.5
18	B. D. +45° 669	9	45 22.16	0.30	20.02	2 45 1.84	-6.12	6 32 8.70	45.030 .075	6.7	45 34 40.7	14.4
19	B. D. +42° 643	9	46 32.43	-0.29	-20.02	2 46 12.12	-5.91	3 22 8.72	46.265 .305	3.4	+42 21 45.3	-14.8
20	γ Persei	II	58 0.14	-0.33	-20.01	2 57 .....	....	14 8 8.38	43.535 .665 .550 .725	14.5	+53 7 .....	....
21	β Persei	II	2 5.78	0.28	20.11	3 1 .....	....	1 34 8.45	48.445 .590 .440 .665	1.7	40 34 .....	....
22	α Persei	II	17 37.57	0.32	19.99	3 17 .....	....	10 30 8.88	48. ... .195 .230	10.8	49 30 .....	....
23	2 H. Camelop.....	II	21 26.06	-0.37	-20.02	3 21 .....	....	20 36 9.75	44.770 .905 .785 .995	21.7	+59 35 .....	....

1900 OCTOBER 15.

CLAMP WEST.

KING, ORSERVER.

BOEGER, ASSISTANT.

24	α Cassiopeiae	II	39 38.35	-0.34	-23.30	0 39 .....	....	8 44 8.72	48.925 .045 .935 .105	8.8	+47 44 .....	....
25	γ Cassiopeiae	II	51 10.56	0.38	23.25	0 50 .....	....	21 10 9.72	48.990 .115 .000 .170	22.1	60 10 .....	....
26	ξ Andromedae.....	II	16 56.68	0.33	23.52	1 16 .....	....	6 0 8.42	49.010 .185 .060 .230	6.1	45 0 .....	....
27	δ Cassiopeiae	II	19 47.16	-0.38	-23.48	1 19 .....	....	20 44 10.20	43.835 .995 .850 .035	21.6	+59 43 .....	....
28	B. D. +51° 317	9	24 56.14	-0.35	-23.39	1 24 32.40	-6.30	12 36 10.05	43.615 .715	12.8	+51 35 6.7	-24.4
29	B. D. +51° 323	9	26 16.57	0.35	23.40	1 25 52.82	-6.34	12 58 9.88	45.470 .545	13.2	51 57 42.3	24.2
30	B. D. +52° 387	9	31 9.45	0.35	23.40	1 30 45.70	-6.43	13 36 11.20	46.635 .640	13.9	52 36 6.9	23.6
31	B. D. +51° 344	9	31 39.47	0.35	23.40	1 31 15.72	-6.39	13 6 12.58	51.400 .430	13.4	52 7 38.5	23.5
32	B. D. +51° 360	9	34 4.39	-0.35	-23.40	1 33 40.64	-6.41	13 6 12.80	44.660 .680	A 13.4	+52 8 45.1	-23.2
33	B. D. +51° 364	9	34 40.48	-0.35	-23.40	1 34 16.73	-6.40	13 6 12.90	42.985 .070	B 13.3	+52 1 44.7	-23.2
34	B. D. +52° 406	9	35 53.43	0.35	23.40	1 35 29.68	-6.48	13 48 8.95	50.780 .880	A 14.2	52 52 37.3	23.0
35	B. D. +52° 424	9	38 28.75	0.35	23.40	1 38 5.00	-6.49	13 48 9.02	46.270 .325	C 14.0	52 41 31.4	22.7
36	B. D. +52° 441	9	42 23.30	0.35	23.40	1 41 59.55	-6.52	13 48 8.90	48.205 .310	B 14.0	52 45 21.7	22.2
37	B. D. +55° 440	9	49 44.25	0.36	23.40	1 49 20.49	-6.82	16 24 9.48	45.630 .705	B 16.8	55 20 35.4	21.0
38	B. D. +55° 464	9	53 21.48	-0.36	-23.40	1 52 57.72	-6.84	16 24 9.18	48.480 .540	C 16.8	+55 18 16.8	-20.6
39	B. D. +55° 484	9	57 34.71	-0.36	-23.40	1 57 10.95	-6.86	16 24 9.70	46.210 .265	C 16.8	+55 17 33.8	-20.0
40	B. D. +55° 527	9	3 18.78	0.36	23.41	2 2 55.01	-6.91	16 24 10.02	43.380 .460	16.9	55 23 6.1	19.3
41	B. D. +55° 551	9	8 36.98	0.36	23.41	2 8 13.21	-6.93	16 14 9.20	45.805 .815	A 16.8	55 17 6.7	18.6
42	B. D. +54° 500	9	9 5.00	0.36	23.41	2 8 41.23	-6.91	16 14 9.40	47.710 .720	C 16.6	55 8 1.6	18.6
43	B. D. +54° 511	9	12 6.38	0.36	23.41	2 11 42.61	-6.92	16 6 9.80	43.045 .090	16.5	55 4 58.7	17.7
44	B. D. +52° 576	9	18 5.83	-0.35	-23.41	2 17 42.07	-6.74	14 0 9.85	46.010 .095	14.3	+52 59 53.8	-17.7

Time.

Barom.

Att.
Ther.Ext.
Ther.

Telescope micrometer bisections are made at III and V, except as noted below.

No.

Eq. Points.

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NO.	NAME.	THDS.	MEAN THREAD.	INST. COR.	CLOCK COR.	APPARENT R. A.	RED. TO 1900.0	CIRCLE READING.	MICROMETER READINGS.	REFR.	APPARENT DECL.	RED. TO 1900.0	
			m s	s	s	h m s	s	° ' "	r r		° ' "	"	
1	B. D. +52° 580	9	19 33.64	-0.35	-23.41	2 19 9.88	-6.74	14 2 9.58	45.590 .680	C	14.2	+52 55 19.5	-17.5
2	B. D. +52° 581	9	21 1.01	0.35	23.41	2 20 37.25	6.76	14 2 9.62	50.350 .430		14.4	53 3 16.9	17.3
3	B. D. +52° 585	9	22 25.34	0.35	23.41	2 22 1.58	6.77	14 2 9.40	48.430 .495	A	14.4	53 5 54.4	17.1
4	B. D. +52° 597	9	27 53.61	0.35	23.41	2 27 29.85	6.78	14 2 9.42	44.480 .585	B	14.3	52 58 11.1	16.4
5	B. D. +50° 599	9	34 4.69	0.35	23.41	2 33 40.93	6.63	12 12 8.92	46.190 .215		12.4	51 11 54.7	15.8
6	B. D. +50° 601	7	34 13.05	0.35	23.41	2 33 49.29	6.63	12 12 9.22	46.040 .145		12.4	51 11 50.3	15.8
7	B. D. +50° 613	9	37 10.51	-0.35	-23.42	2 36 46.74	-6.64	12 12 9.15	50.230 .290	C	12.4	+51 6 46.0	-15.4
8	B. D. +50° 623	9	39 3.28	-0.35	-23.42	2 38 39.51	-6.64	12 12 9.22	50.320 .345	B	12.4	+51 10 1.3	-15.2
9	B. D. +50° 630	9	41 36.38	0.35	23.42	2 41 12.61	6.65	12 12 9.25	44.760 .810	B	12.4	51 8 13.9	14.8
10	B. D. +51° 633	9	42 58.48	0.35	23.42	2 42 34.71	6.66	12 12 9.15	42.110 .135	A	12.5	51 13 51.6	14.6
11	B. D. +47° 709	7	43 51.27	0.34	23.42	2 43 27.51	6.37	8 50 3.68	38. . . .	B	8.9	47 44 6.9	15.0
12	B. D. +47° 711	9	44 23.37	0.34	23.42	2 43 59.61	6.38	8 50 4.08	45.655 .750	(A)	9.0	47 52 49.0	15.0
13	B. D. +48° 782	9	46 8.90	-0.34	-23.42	2 45 45.14	-6.48	10 6 9.08	45.520 .595		10.3	+49 5 39.6	-14.5
14	γ Persei.....	11	58 3.70	-0.35	-23.45	2 57		14 8 9.45	43.490 .630		14.5	+53 7	
15	β Persei.....	11	2 9.27	0.32	23.47	3 1		1 34 8.95	48.400 .615		1.6	40 34	
16	α Persei.....	10	17 41.14	0.34	23.43	3 17		10 30 8.62	48.100 .235		10.7	49 30	
17	2 H. Camelop.....	11	21 29.54	-0.38	-23.35	3 21		20 36 10.10	44.885 .020		21.6	+59 35	
									.900 .070				
1900 OCTOBER 16. CLAMP WEST.													
KING, OBSERVER.			BOEGER, ASSISTANT.										
18	α Cassiopeiae.....	11	39 39.12	-0.29	-24.12	0 39		8 44 9.68	48.735 .900		9.1	+47 44	
19	ξ Andromedae.....	11	16 57.26	0.29	24.13	1 16		6 0 9.75	48.940 .090		6.2	45 0	
20	δ Cassiopeiae.....	11	19 47.77	-0.34	-24.12	1 19		20 44 10.78	43.725 .855		22.2	+59 43	
21	B. D. +50° 297	9	26 12.39	-0.30	-24.14	1 25 47.95	-6.26	11 58 10.15	49.050 .175	B	12.5	+50 55 39.1	-24.5
22	B. D. +50° 300	9	27 19.42	0.30	24.14	1 26 54.98	6.28	11 58 10.05	47.875 .970		12.5	50 58 29.3	24.4
23	B. D. +51° 334	9	29 4.50	0.31	24.14	1 28 40.05	6.34	12 40 10.00	42.870 .960		13.2	51 38 53.9	24.2
24	B. D. +51° 338	9	29 53.30	0.31	24.14	1 29 28.85	6.35	12 40 10.28	44.880 .950		13.2	51 39 32.5	24.1
25	B. D. +52° 393	8	33 2.57	0.31	24.14	1 32 38.12	6.46	13 44 11.20	46.755 .770		14.4	52 44 10.9	23.6
26	B. D. +51° 357	9	33 44.47	-0.31	-24.14	1 33 20.02	-6.38	12 46 10.88	46.100 .150		13.3	+51 45 56.4	-23.6
27	B. D. +54° 383	9	43 10.85	-0.32	-24.15	1 42 46.38	-6.71	15 44 10.15	50.705 .740	C	16.5	+54 39 1.1	-22.2
28	B. D. +54° 388	9	44 28.82	0.32	24.15	1 44 4.35	6.73	15 44 10.22	44.890 .990		16.6	54 43 36.2	22.0
29	B. D. +54° 396	9	45 56.20	0.32	24.15	1 45 31.73	6.73	15 44 10.28	42.160 .260	B	16.5	54 39 30.7	21.8
30	B. D. +54° 424	9	51 44.19	0.32	24.15	1 51 19.72	6.80	15 54 9.10	43.830 .880		16.8	54 53 14.5	21.1
31	B. D. +54° 444	9	56 58.08	0.32	24.16	1 56 33.60	6.82	15 44 9.98	50.330 .360		16.6	54 45 20.4	20.4
32	B. D. +54° 448	9	57 37.57	-0.32	-24.16	1 57 13.09	-6.81	15 44 10.00	49.680 .735	C	16.5	+54 38 41.3	-20.4
33	B. D. +54° 470	9	3 59.25	-0.32	-24.16	2 3 34.77	-6.87	15 54 9.48	41.995 .095	B	16.7	+54 49 26.9	-19.5
34	B. D. +54° 494	9	8 13.49	0.32	24.16	2 7 49.01	6.90	15 54 9.35	47.710 .750	B	16.7	54 51 15.7	19.0
35	B. D. +54° 525	9	14 35.47	0.32	24.17	2 14 10.98	6.94	15 54 9.62	46.090 .180	A	16.9	54 57 13.5	18.1
36	B. D. +54° 535	9	17 25.66	0.32	24.17	2 17 1.17	6.95	15 54 9.58	48.865 .940		16.8	54 54 51.6	17.8
37	B. D. +54° 539	9	18 46.53	0.32	24.17	2 18 22.04	6.95	15 54 9.35	48.665 .730	C	16.7	54 48 21.4	17.6
38	B. D. +53° 532	9	23 36.56	-0.31	-24.17	2 23 12.08	-6.82	14 30 9.48	49.625 .660	C	15.2	+53 24 38.0	-17.1
39	B. D. +53° 540	9	26 20.51	-0.31	-24.17	2 25 56.03	-6.85	14 30 9.48	43.515 .600	A	15.3	+53 32 22.2	-16.8
40	B. D. +53° 546	9	29 3.22	0.31	24.18	2 28 38.73	6.83	14 16 9.50	43.890 .960		15.0	53 15 14.1	16.4
41	B. D. +50° 599	9	34 5.43	0.30	24.18	2 33 40.95	6.65	12 12 9.02	46.190 .250		12.8	51 11 55.5	16.0
42	B. D. +52° 616	9	36 27.89	0.31	24.18	2 36 3.40	6.84	14 6 8.98	47.005 .040		14.8	53 6 13.6	15.4
43	B. D. +48° 746	9	37 53.01	0.30	24.18	2 37 28.53	-6.46	9 54 8.72	49.835 .890	C	10.3	48 48 37.2	-15.9
44	Eros.....	9	38 39.86	-0.30	-24.18	2 38 15.38		11 16 8.90	47.470 .595		11.8	+50 16 19.4	
Time.	Barom.	Att. Ther.	Ex. Ther.	Telescope micrometer bisections are made at III and V, except as noted below.							No.	Eq. Points.	
d h m	in.	°	°									° ' "	
15 2 23	29.83	57.2	56.8	5, 8, 25, 31, 42, 43.	Bisections at I, III.						14	321 5 42.5	
2 47	29.82	56.8	56.3	6, 12.	Bisections at V, VII.						15	42.7	
3 26	29.81	56.0	55.0	10.	Bisections at II, III.						16	43.2	
16 0 41	29.92	50.2	47.8	11.	Bisection at V.						17	44.2	
1 20	29.93	50.0	47.0	14, 15, 16, 17, 18, 19, 20.	Bisections at I, II, VI, VII.						18	41.3	
1 50	29.93	48.2	45.8								19	42.4	
2 20	29.94	47.4	45.5								20	41.4	
Note. Oct. 16. Seeing good.													
Adopted Equator Point. . . . I-17 321° 5' 43''.08													
18-44 { 1 ^h .090 41 .70													
3 .165 42 .60													

OBSERVATIONS OF EROS AND REFERENCE STARS.

B15

NO.	NAMR.	THDS.	MEAN THREAD.	INST. COR.	CLOCK COR.	APPARENT R. A.	RED. TO 1900.0	CIRCLE READING.	MICROMETER READINGS.	REFR.	APPARENT DECL.	RED TO 1900.0
			m s	s	s	h m s	s	° ' "	r r		° ' "	"
1	B. D.+48° 752	9	40 6.36	-0.30	-24.18	2 39 41.38	-6.48	9 54 8.58	44.675 .710	A	10.4 +48 56 38.0	-15.6
2	B. D.+48° 760	9	41 56.22	0.30	24.18	2 41 31.74	6.47	9 54 8.58	49.140 .160	C	10.3 48 48 23.4	15.4
3	B. D.+48° 762	9	42 32.17	0.30	24.18	2 42 7.69	6.47	9 54 8.42	42.515 .560	C	10.2 48 46 15.4	15.3
4	B. D.+48° 763	9	42 58.40	0.30	24.18	2 42 33.92	6.48	9 54 8.20	44.590 .695		10.3 48 53 20.1	15.2
5	B. D.+48° 770	9	44 50.52	-0.30	-24.19	2 44 26.03	-6.49	9 54 8.42	44.010 .080	A	10.4 +48 56 25.4	-15.0
6	γ Persei.....	11	58 4.42	-0.31	-24.18	2 57 .....	....	14 8 10.08	43.395 .595		14.9 +53 7 .....	....
7	β Persei.....	11	2 10.03	0.28	24.25	3 1 .....	....	1 34 9.48	48.355 .610		1.7 40 34 .....	....
8	α Persei.....	11	17 41.84	0.30	24.14	3 17 .....	....	10 30 9.12	48.045 .235		11.0 49 30 .....	....
9	2 H. Camelop.....	11	21 30.42	-0.34	-24.24	3 21 .....	....	20 36 10.70	44.690 .930		22.2 +59 35 .....	....
									.730 .965			

1900 OCTOBER 19.

CLAMP WEST.

KING, OBSERVER.

BOEGER, ASSISTANT.

10	α Cassiopeiae.....	11	39 40.44	-0.33	-25.40	0 39 .....	....	8 44 9.98	48.850 .980		9.1 +47 44 .....	....
									.870 .030			
11	γ Cassiopeiae.....	10	51 12.68	0.38	25.38	0 50 .....	....	21 10 10.25	48.950 .140		22.9 60 10 .....	....
									.990 .190			
12	ξ Andromedae.....	11	16 58.58	0.32	25.42	1 16 .....	....	6 0 8.90	49.060 .210		6.3 45 0 .....	....
									.065 .265			
13	δ Cassiopeiae.....	11	19 49.10	-0.38	-25.39	1 19 .....	....	20 44 9.62	43.895 .020		22.4 +59 43 .....	....
									.935 .075			
14	B. D.+49° 401	9	25 9.75	-0.34	-25.40	1 24 44.01	-6.22	11 10 8.28	45.075 .090		11.7 +50 9 32.3	-25.5
15	B. D.+49° 400	9	25 10.35	0.34	25.40	1 24 44.61	6.22	11 10 8.08	45.320 .450	B	11.7 50 6 22.0	25.5
16	B. D.+45° 379	9	29 4.94	0.32	25.40	1 28 39.22	5.97	7 0 9.48	40.275 .335	A	7.4 46 1 11.4	25.4
17	B. D.+45° 392	9	31 45.40	0.32	25.40	1 31 19.68	5.99	7 0 9.42	48.550 .640	B	7.3 45 57 22.3	25.1
18	B. D.+45° 398	9	32 54.02	0.32	25.40	1 32 28.30	5.99	7 0 9.58	42.815 .955	B	7.3 45 55 33.0	25.0
19	B. D.+45° 416	9	35 54.50	-0.32	-25.40	1 35 28.78	-6.01	7 0 10.10	40.485 .600	B	7.2 +45 54 48.5	-24.6
20	B. D.+54° 368	9	38 19.46	-0.35	-25.40	1 37 53.71	-6.68	15 22 9.28	40.425 .530	A	16.3 +54 23 23.4	-23.6
21	B. D.+54° 393	9	45 26.02	0.35	25.40	1 45 0.27	6.74	15 22 8.75	49.000 .080	A	16.4 54 26 7.2	22.8
22	B. D.+54° 413	9	48 45.71	0.35	25.40	1 48 19.96	6.75	15 22 8.85	43.120 .240	C	16.2 54 14 34.0	22.4
23	B. D.+54° 431	9	53 28.85	0.35	25.40	1 53 3.10	6.79	15 22 8.50	41.670 .795		16.3 54 20 32.0	21.8
24	B. D.+38° 392	9	55 18.17	0.31	25.40	1 54 52.46	5.73	0 8 9.45	49.780 .880		0.2 39 8 52.1	22.9
25	B. D.+53° 440	9	57 17.53	-0.35	-25.40	1 56 51.78	-6.80	15 18 9.22	40.880 .010	B	16.2 +54 13 4.3	-21.3
26	B. D.+54° 452	9	58 30.54	-0.35	-25.40	1 58 4.79	-6.82	15 18 8.82	42.830 .880		16.2 +54 16 53.6	-21.1
27	B. D.+54° 457	9	59 40.98	0.35	25.40	1 59 15.23	6.85	15 28 .....	....		.... 54 27 .....	....
28	B. D.+53° 453	9	2 9.10	0.35	25.40	2 1 43.35	6.83	15 4 7.38	48.750 .875	A	16.1 54 7 59.2	20.7
29	B. D.+53° 470	9	5 32.25	0.35	25.40	2 5 6.50	6.85	15 4 7.40	49.870 .930		16.0 54 5 7.1	20.2
30	B. D.+53° 486	9	8 37.53	0.35	25.40	2 8 11.78	6.86	15 4 7.30	46.985 .035		16.0 54 4 11.6	19.8
31	B. D.+53° 494	9	11 39.58	-0.35	-25.40	2 11 13.83	-6.88	15 4 7.28	45.085 .230	B	16.0 +54 0 23.0	-19.4
32	B. D.+53° 507	9	14 52.81	-0.35	-25.40	2 14 27.06	-6.90	15 4 7.40	44.450 .560		16.0 +54 3 23.7	-19.0
33	B. D.+53° 541	9	26 28.52	0.35	25.40	2 26 2.77	6.97	15 4 7.08	43.850 .915	A	16.1 54 6 26.3	17.4
34	B. D.+51° 598	9	29 48.11	0.34	25.40	2 29 22.37	6.77	13 4 9.52	44.095 .190		13.8 52 3 16.6	17.2
35	Eros	11	35 36.47	0.34	25.40	2 35 10.73	....	12 10 9.50	44.730 .910		12.9 51 9 28.5	....
									.740 .975			
36	B. D.+51° 620	9	37 10.63	-0.34	-25.40	2 36 44.89	-6.80	13 0 9.32	45.090 .150		13.8 +51 59 33.4	-16.3
37	B. D.+48° 750	..	.. .....	....	....	2 39 .....	....	9 32 10.25	47.870 .970		10.0 +48 32 24.3	-16.4
38	B. D.+43° 576	10	41 30.75	-0.32	-25.40	2 41 5.03	-6.16	4 52 10.32	45.025 .075		5.1 43 51 26.2	16.8
39	B. D.+47° 702	9	42 51.38	0.33	25.40	2 42 25.65	6.40	8 8 9.52	51.420 .520	A	8.6 47 12 46.7	16.2
40	B. D.+46° 644	8	44 6.65	0.33	25.40	2 43 40.92	6.39	8 8 9.30	42.270 .340	C	8.4 47 0 9.6	16.0
41	B. D.+47° 714	9	45 12.08	0.33	25.40	2 44 46.35	6.48	9 6 8.90	46.060 .115		9.6 48 5 49.2	15.7
42	B. D.+47° 721	9	46 23.04	-0.33	-25.40	2 45 57.31	-6.48	9 6 8.58	40.485 .630	B	9.5 +48 0 47.7	-15.6

Time.	Barom.	Att. Ther.	Ex. Ther.	Telescope micrometer bisections are made at III and V, except as noted below.			No.	Eq. Points.
d h m	in.	°	°					° ' "
16 2 50	29.95	46.7	44.8	2.	Bisections at II, III.			6 321 5 42.0
3 25	29.97	45.8	43.7	3, 40.	Bisections at IV, V.			7 42.8
19 0 42	30.00	46.0	(45.0)	4, 15, 28, 36, 37, 42.	Bisections at V, VII.			8 43.1
1 20	30.00	45.2	44.1	6, 7, 8, 9, 10, 11, 12, 13, 35.	Bisections at I, II, VI, VII.			9 42.5
1 50	30.01	44.2	42.9	14.	Bisections at I, III.			10 42.8
2 20	30.01	43.8	42.3				11 43.3	
2 50	30.02	43.2	41.7				12 43.3	
				Note.			13 42.3	
				Oct. 19. Seeing very good.				
				Adopted Equator Point.... I-9 { 1 ^h .090 321° 5' 41 ^m .70				
				{ 3.165 42 .60				
				IO-42 42 .82				

NO.	NAME.	THDS.	MEAN THREAD.	INST. COR.	CLOCK COR.	APPARENT R. A.	RED. TO 1900.0	CIRCLE READING.	MICROMETER READINGS.	REFR.	APPARENT DECL.	RED. TO 1900.0
			m s	s	s	h m s	s	° ' "	r r	"	° ' "	"
1	γ Persei.....	II	58 5.76	0.35	-25.41	2 57 .....	....	14 8 9.20	43.525 .685 .545 .730	15.0	53 7 .....	....
2	β Persei.....	IO	2 11.26	0.31	25.39	3 1 .....	....	1 34 7.50	48. .... .680 .740	1.7	40 34 .....	....
3	α Persei.....	II	17 43.21	0.34	25.39	3 17 .....	....	10 30 7.88	48.160 .280 .190 .355	11.1	49 30 .....	....
4	2 H. Camelop.....	II	21 31.74	-0.38	-25.42	3 21 .....	....	20 36 9.75	44.825 .980 .840 .070	22.4	+59 35 .....	....

1900 OCTOBER 20.

CLAMP WEST.

KING, OBSERVER.

BOEGER, ASSISTANT.

5	σ Cassiopeiae.....	II	39 40.47	-0.23	-25.53	0 39 .....	....	8 44 8.28	48.930 .075 .945 .130	9.1	+47 44 .....	....
6	γ Cassiopeiae.....	II	51 12.70	0.28	25.50	0 50 .....	....	21 10 11.90	48.890 .035 .905 .075	22.9	60 10 .....	....
7	ξ Andromedae.....	II	16 58.68	0.23	25.61	1 16 .....	....	6 0 8.70	49.080 .285 .110 .325	6.3	45 0 .....	....
8	δ Cassiopeiae.....	II	19 49.20	-0.27	-25.59	1 19 .....	....	20 44 9.70	43.870 .050 .890 .120	22.4	+59 43 .....	....
9	B. D. +49° 403	9	25 24.25	-0.24	-25.56	1 24 58.45	-6.21	10 56 8.20	44.195 .260	11.5	+49 55 15.4	-25.8
10	B. D. +49° 414	9	28 51.65	0.24	25.56	1 28 25.85	6.25	11 10 8.70	39.930 .000	11.6	50 1 28.3	25.4
11	B. D. +49° 416	9	30 37.74	0.24	25.56	1 30 11.94	6.28	11 10 8.92	45.170 .235	11.8	50 12 49.8	25.2
12	B. D. +49° 422	9	32 14.20	0.24	25.55	1 31 48.41	6.28	11 10 8.55	44.750 .890	11.7	50 6 14.2	25.0
13	B. D. +52° 399	9	33 45.66	0.25	25.55	1 33 19.86	6.48	13 24 9.40	49.050 .095	14.2	52 24 52.2	24.6
14	B. D. +52° 420	9	37 49.50	-0.25	-25.55	1 37 23.70	-6.50	13 24 9.60	44.210 .275	14.1	+52 23 19.6	-24.1
15	B. D. +54° 408	9	47 43.65	-0.26	-25.55	1 47 17.84	-6.84	16 6 9.38	48.250 .325	17.1	+55 6 40.0	-22.7
16	B. D. +54° 415	9	49 41.03	0.26	25.55	1 49 15.22	6.85	16 6 9.18	44.840 .845	17.1	55 5 34.5	22.4
17	B. D. +54° 417	8	50 4.93	0.26	25.55	1 49 39.12	6.86	16 6 9.15	(49)555 .670	17.2	55 10 18.1	22.4
18	B. D. +54° 429	9	52 42.82	0.26	25.55	1 52 17.01	6.88	16 6 9.20	46.370 .435	17.1	55 6 3.6	22.1
19	B. D. +54° 453	9	58 50.65	0.26	25.55	1 58 24.84	6.93	16 6 9.02	45.320 .370	17.2	55 8 58.1	21.3
20	B. D. +54° 469	9	3 41.92	-0.25	-25.55	2 3 16.12	-6.94	16 6 9.18	41.130 .200	17.1	+55 1 10.1	-20.7
21	B. D. +54° 483	9	6 44.18	-0.25	-25.55	2 6 18.38	-6.93	15 34 8.80	51.110 .200	16.6	+54 38 48.7	-20.3
22	B. D. +54° 497	9	8 49.94	0.25	25.55	2 8 24.14	6.94	15 34 8.38	47.300 .360	16.6	54 37 34.9	20.0
23	B. D. +54° 530	9	16 16.86	0.25	25.55	2 15 51.06	6.98	15 34 8.72	47.620 .735	16.6	54 37 41.9	19.0
24	B. D. +54° 554	9	22 19.56	0.25	25.55	2 21 53.76	7.01	15 32 9.82	45.860 .925	16.5	54 31 53.9	18.2
25	B. D. +54° 565	9	25 5.46	0.25	25.55	2 24 39.66	7.01	15 32 9.45	41.825 .900	16.4	54 27 23.0	17.8
26	B. D. +50° 589	9	31 55.62	-0.24	-25.55	2 31 29.83	-6.65	11 26 8.15	47.500 .525	12.0	+50 26 19.7	-17.4
27	B. D. +50° 595	9	32 57.40	-0.24	-25.55	2 32 31.61	-6.65	11 26 7.95	42.070 .125	12.0	+50 21 21.1	-17.3
28	Eros.....	9	34 25.75	0.24	25.55	2 33 59.96	....	12 26 9.02	46.865 .905	13.1	51 26 8.8	....
29	B. D. +51° 616	9	35 54.23	0.25	25.55	2 35 28.43	6.81	13 0 8.42	48.370 .445	13.7	52 0 38.0	16.7
30	B. D. +49° 753	9	37 20.17	0.24	25.55	2 36 54.38	6.65	11 16 8.00	49.815 .885	11.8	50 10 37.3	16.7
31	B. D. +50° 620	9	38 37.31	-0.24	-25.55	2 38 11.52	-6.67	11 16 7.92	44.230 .300	11.9	+50 18 31.0	-16.5
32	B. D. +50° 627	9	40 1.81	-0.24	-25.55	2 39 36.02	-6.66	11 16 7.92	44.205 .295	11.8	+50 12 2.7	-16.3
33	B. D. +50° 636	9	42 8.13	0.24	25.55	2 41 42.34	6.69	11 30 7.75	43.425 .495	12.1	50 29 0.8	16.0
34	B. D. +48° 764	9	43 15.60	0.24	25.55	2 42 49.81	6.52	9 28 6.88	47.010 .055	10.0	48 28 6.3	16.2
35	B. D. +40° 612	9	44 37.41	0.22	25.55	2 44 11.64	6.00	1 54 8.15	44.775 .790	2.0	40 53 16.5	17.0
36	B. D. +48° 777	9	45 52.32	-0.24	-25.55	2 45 26.53	-6.53	9 28 8.48	48.225 .275	10.0	+48 28 31.3	-15.8
37	γ Persei.....	II	58 5.82	-0.25	-25.54	2 57 .....	....	14 8 9.80	43.305 .640 .320 .710	15.0	+53 7 .....	....
38	β Persei.....	II	2 11.40	0.32	25.50	3 1 .....	....	1 34 8.18	48.285 .690 .300 .710	1.7	40 34 .....	....
39	α Persei.....	II	17 43.26	0.24	25.52	3 17 .....	....	10 30 9.02	48.095 .225 .110 .270	11.1	49 30 .....	....
40	2 H. Camelop.....	II	21 31.86	-0.27	-25.62	3 21 .....	....	20 36 9.12	44.810 .010 .810 .075	22.3	+59 35 .....	....

Time.	Barom.	Att. Ther.	Ex. Ther.	Telescope micrometer bisections are made at III and V, except as noted below.				No.	Eq. Points.
d h m	in.	°	°						° ' "
19 3 26	30.02	42.2	40.8	1, 3, 4, 5, 6, 7, 8, 37, 38, 39, 40. Bisections at I, II, VI, VII.				1	321 5 42.6
20 0 41	30.075	47.0	46.0	2. Bisections at VI, VII.				2	42.5
1 20	30.07	46.2	45.2	16, 26. Bisections at I, III.				3	43.0
1 53	30.07	45.7	44.2	17. Bisections at V, VII.				4	42.8
2 23	30.07	45.8	44.0	27. Bisections at III, IV.				5	42.4
2 53	30.07	45.5	43.8					6	42.9
3 27	30.07	45.1	44.0					7	43.9
				Note. Oct. 20. Good seeing. Stars a trifle unsteady.				8	42.1
								9	40.5
								10	40.5
								11	42.6
								12	41.8
				Adopted Equator Point.... 5-40 321° 5' 42".09					

Time.		Barom.	Att. Ther.	Ex. Ther.	Telescope micrometer bisections are made at III and V, except as noted below.	No.	Eq Points.
d	h m	in.	°	°			° ' "
21	0 34	30.02	55.5	55.1	1, 2, 3, 24, 35, 36, 37, 38.	I	321° 5' 41."
	1 20	30.01	55.1	54.8	Bisections at I, II, VI, VII.	2	41."
	1 49	30.01	54.9	54.4	Bisections at II, VI, VII.	3	42."
	2 21	30.01	54.8	54.1	5, 10, 19.	4	41."
	2 50	30.005	54.3	53.9	Bisections at V, VII.	35	42."
	3 27	30.00	54.1	54.0	Bisections at II, III.	36	41."
					14.	37	42."
					18.	38	'2."
					25, 26.		
					Note.		
					Oct. 21. Good seeing.		
					Adopted Equator Point....		
					I-38 { 1 ^h . 03 ^m 32 ^s 5' 41".48		
					{ 3.168 . 42 . 28		

KING, OBSERVER.					1900 OCTOBER 24.				CLAMP WEST.				BROWN, ASSISTANT.			
NO.	NAME.	THDS.	MEAN THREAD.	INST. COR.	CLOCK COR.	APPARENT R. A.	RED. TO 1900. 0	CIRCLE READING.	MICROMETER READINGS.		REFR.	APPARENT DECL.	RED. TO 1900. 0			
			m s	s	s	h m s	s	° ' "	r	r		" ° ' "	"			
1	α Cassiopeiae	II	39 40. 25	-0. 36	-25. 18	0 39		8 44 8. 78	48. 985	. 100		8. 8	+47 44			
2	γ Cassiopeiae	II	51 12. 48	0. 45	25. 10	0 50		21 10'	49. 005			. . .	60 11			
3	ξ Andromedæ	II	16 58. 32	0. 35	25. 13	1 16		6 0 7. 68	49. 160	. 315		6. 1	45 0			
4	δ Cassiopeiae	II	19 48. 88	-0. 45	-25. 07	1 19		20 44 9. 20	44. 040	. 155		21. 7	59 43			
5	B. D. +48° 453	9	25 26. 03	-0. 37	-25. 11	1 25 0. 55	-6. 16	9 50 8. 55	47. 080	. 180		10. 0	+48 50 9. 3	-26. 8		
6	B. D. +50° 298	9	26 44. 46	0. 38	25. 11	1 26 18. 97	6. 30	11 42 8. 48	48. 180	. 270	B	11. 8	50 39 18. 9	26. 6		
7	B. D. +48° 477	9	30 34. 79	0. 37	25. 11	1 30 9. 31	6. 20	9 42 8. 15	46. 710	. 730		9. 8	48 42 1. 7	26. 2		
8	B. D. +50° 314	9	31 16. 43	0. 38	25. 11	1 30 50. 94	6. 35	11 46 6. 98	44. 780	. 875		12. 0	50 45 25. 6	26. 0		
9	B. D. +44° 341	9	33 1. 70	0. 35	25. 11	1 32 36. 24	5. 97	5 54 7. 65	46. 490	. 540		6. 0	44 53 52. 6	26. 1		
10	B. D. +44° 347	9	35 19. 37	-0. 35	-25. 11	1 34 53. 91	-5. 96	5 32 8. 42	44. 470	. 520		5. 6	+44 31 14. 2	-25. 9		
11	B. D. +42° 352	9	36 35. 07	-0. 34	-25. 11	1 36 9. 62	-5. 89	4 12 7. 72	46. 090	. 180	B	4. 2	+43 8 30. 5	-25. 8		
12	B. D. +42° 356	9	37 48. 72	0. 34	25. 11	1 37 23. 27	5. 90	4 12 7. 70	48. 380	. 425		4. 3	43 12 27. 1	25. 7		
13	B. D. +42° 361	9	38 44. 97	0. 34	25. 11	1 38 19. 52	5. 90	4 12 7. 80	48. 060	. 105	B	4. 2	43 9 7. 9	25. 6		
14	B. D. +42° 370	9	40 48. 10	0. 34	25. 11	1 40 22. 65	5. 92	4 12 7. 80	49. 140	. 225		4. 3	43 12 42. 2	25. 4		
15	B. D. +43° 373	9	43 42. 63	0. 34	25. 11	1 43 17. 18	5. 94	4 12 7. 75	45. 150	. 245	A	4. 3	43 14 40. 5	25. 0		
16	B. D. +42° 388	9	45 34. 48	-0. 34	-25. 11	1 45 9. 03	-5. 94	4 2 8. 35	47. 540	. 655		4. 1	+43 2 12. 2	-24. 8		
17	B. D. +40° 423	8	55 40. 39	-0. 33	-25. 11	1 55 14. 95	-5. 87	1 44 7. 28	47. 385	. 480		1. 8	+40 44 4. 0	-23. 8		
18	B. D. +53° 460	9	3 57. 31	0. 40	25. 10	2 3 31. 81	6. 84	14 22 8. 65	48. 250	. 340		14. 7	53 22 36. 4	21. 8		
19	B. D. +52° 549	9	9 0. 43	0. 40	25. 10	2 8 34. 93	6. 81	14 8 8. 45	43. 280	. 390		14. 5	53 7 0. 9	21. 2		
20	B. D. +52° 563	9	12 38. 44	0. 40	25. 10	2 12 12. 94	6. 87	14 8 8. 48	43. 870	. 985		14. 5	53 7 12. 3	20. 7		
21	B. D. +52° 592	9	25 35. 54	0. 39	25. 10	2 25 10. 05	6. 87	13 28 8. 58	43. 315	. 425	B	13. 7	52 23 47. 8	19. 0		
22	B. D. +52° 595	8	27 49. 19	-0. 39	-25. 10	2 27 23. 70	-6. 89	13 28 8. 55	43. 195	. 210	B	13. 7	+52 23 45. 6	-18. 7		
23	Eros	II	28 59. 28	-0. 39	-25. 10	2 28 33. 79		13 28 8. 52	42. 780	. 990		13. 8	+52 26 51. 6			
24	B. D. +52° 602	9	31 24. 80	0. 39	25. 10	2 30 59. 31	6. 90	13 28 8. 52	40. 860	. 950	B	13. 7	52 23 0. 4	-18. 2		
25	B. D. +52° 609	9	33 56. 32	0. 39	25. 09	2 33 30. 84	6. 91	13 28 8. 50	39. 880	. 985	B	13. 7	52 22 41. 8	17. 9		
26	B. D. +52° 617	8	36 52. 16	0. 39	25. 09	2 36 26. 68	6. 92	13 28 8. 52	41. 855	. 930	C	13. 6	52 20 6. 5	17. 5		
27	B. D. +43° 566	9	38 5. 87	-0. 35	-25. 09	2 37 40. 43	-6. 24	4 52 7. 98	38. 725	. 810	A	5. 0	+43 52 38. 1	-18. 2		
28	B. D. +47° 692	9	39 30. 46	-0. 36	-25. 09	2 39 5. 01	-6. 52	8 46 8. 15	39. 140	. 195		8. 9	+47 43 35. 1	-17. 6		
29	B. D. +47° 698	9	41 52. 14	0. 36	25. 09	2 41 26. 69	6. 54	8 46 8. 15	49. 860	. 885		8. 9	47 47 1. 3	17. 3		
30	B. D. +42° 633	9	42 44. 36	0. 34	25. 09	2 42 18. 93	6. 15	3 22 7. 05	48. 475	. 545	B	3. 4	42 19 15. 6	17. 8		
31	B. D. +42° 637	9	43 59. 04	0. 34	25. 09	2 43 33. 61	6. 16	3 22 6. 95	41. 140	. 150	A	3. 5	42 23 22. 2	17. 6		
32	B. D. +42° 638	9	44 37. 73	0. 34	25. 09	2 44 12. 30	6. 19	3 54 8. 05	47. 950	. 985		4. 0	42 54 18. 9	17. 5		
33	B. D. +46° 648	9	45 31. 67	-0. 36	-25. 09	2 45 6. 22	-6. 44	7 26 8. 08	47. 015	. 100		7. 5	+46 26 3. 2	-17. 0		
34	γ Persei	II	58 5. 60	-0. 40	-25. 08	2 57		14 8 8. 95	43. 640	. 810		14. 5	+53 7 . . .			
35	β Persei	II	2 11. 14	0. 33	25. 15	3 1		1 34 7. 62	48. 560	. 710		1. 7	40 34 . . .			
36	α Persei	II	17 43. 02	0. 37	25. 05	3 17		10 30 8. 68	48. 170	. 295		10. 7	49 30 . . .			
37	2 H. Camelop.	II	21 31. 60	-0. 45	-25. 06	3 21		20 36 9. 48	44. 990	. 115		21. 6	+59 35 . . .			
									45. 025	. 155						

KING, OBSERVER.				1900 OCTOBER 26.				CLAMP WEST.				BOEGER, ASSISTANT.			
38	α Cassiopeiae	II	39 39.51	-0.36	-24.45	α 39		8 44 9.00	49.	.170		'8.9	+47 44		
39	γ Cassiopeiae	II	51 11.92	-0.42	-24.58	α 50		21 10 10.35	49.135	.250		22.3	+60 11		
									.135	.305					
Time.		Barom.	Att. Ther.	Ex. Ther.	Telescope micrometer bisections are made at III and V, except as noted below.							No.	Eq. Points.		
d h m	in.	°	'	"									° ' "		
24 0 42	30.17	65.0	63.8		I, 3, 4, 23, 34, 35, 36, 37, 39. Bisections at I, II, VI, VII.							I	321 5 42.5		
1 20	30.165	64.0	63.0		7, 22, 29. Bisections at I, III.							3	43.0		
1 50	30.17	63.5	62.6		17. Bisections at (V, VII).							4	42.4		
2 20	30.175	62.9	62.1		30, 31. Bisections at II, III.							34	42.9		
2 50	30.18	62.1	61.6		33. Bisections at V, VII.							35	42.3		
3 27	30.185	61.8	60.8		38. Bisections at VI, VII.							36	42.5		
26 0 41	30.04	59.8	58.7									37	43.2		
					Notes.							38	43.2		
					Oct. 24. Good seeing.							39	43.5		
					26. Good seeing at first; thick fog at end.										
					Adopted Equator Point.... 1-37 321° 5' 42".69										

OBSERVATIONS OF EROS AND REFERENCE STARS.

B 19

NO.	NAME.	THDS.	MEAN THREAD.	INST. COR.	CLOCK COR.	APPARENT R. A.	RED. TO 1900.0	CIRCLE READING.	MICROMETER READINGS.	REFR.	APPARENT DECL.	RED. TO 1900.0
			m s	s	s	h m s	s	° ' "	r r	"	° ' "	"
1	ξ Andromedæ.....	II	16 57.78	-0.35	-24.57	1 16 .....	....	6 0 8.18	49.250 .395 .255 .450	6.1	+45 0 ....	....
2	δ Cassiopeia.....	II	19 48.36	-0.42	-24.58	1 19 .....	....	20 44 9.75	44.070 .150 .065 .210	21.8	+59 43 ....	....
3	B. D.+48° 454	9	25 57.08	-0.36	-24.55	1 25 32.17	-6.16	9 30 8.68	42.530 .585	A 9.7	+48 31 55.1	-27.3
4	B. D.+48° 463	9	27 47.32	0.36	24.55	1 27 22.41	6.17	9 30 8.62	49.045 .125	9.7	48 30 45.4	27.0
5	B. D.+51° 331	8	28 30.05	0.37	24.55	1 28 5.13	6.38	12 20 9.22	45.540 .655	12.6	51 19 42.0	27.5
6	B. D.+51° 339	9	30 55.70	0.37	24.55	1 30 30.78	6.40	12 20 9.28	50.065 .060	C 12.5	51 14 42.3	26.6
7	B. D.+51° 344	9	31 40.87	0.38	24.55	1 31 15.94	6.48	13 8 10.78	45.400 .470	13.4	52 7 41.3	26.4
8	B. D.+51° 363	9	34 34.03	-0.37	-24.55	1 34 9.11	-6.44	12 22 8.58	46.205 .280	12.6	+51 21 53.8	-26.1
9	B. D.+54° 368	9	38 18.75	-0.39	-24.55	1 37 53.81	-6.74	15 24 8.52	44.530 .635	15.9	+54 23 25.2	-25.5
10	B. D.+54° 392	9	45 14.04	0.39	24.56	1 44 49.09	6.86	15 56 8.30	43.325 .410	16.4	54 55 2.2	24.6
11	B. D.+53° 419	9	48 57.53	0.38	24.56	1 48 32.59	6.77	14 40 8.75	43.155 .235	A 15.1	53 42 12.8	24.2
12	B. D.+53° 428	9	52 8.30	0.39	24.56	1 51 43.35	6.84	15 6 7.92	41.230 .310	A 15.6	54 7 35.5	23.8
13	B. D.+53° 439	9	56 10.15	0.39	24.56	1 55 45.20	6.86	15 6 8.00	49.780 .855	C 15.5	54 0 38.7	23.3
14	B. D.+53° 451	9	0 34.90	-0.38	-24.56	2 0 9.96	-6.88	14 50 7.88	47.000 .100	15.3	+53 50 11.3	-22.7
15	B. D.+53° 459	9	3 52.87	-0.38	-24.56	2 3 27.93	-6.91	14 50 7.88	42.015 .100	A 15.3	+53 51 50.3	-22.3
16	B. D.+53° 474	9	6 57.98	0.38	24.56	2 6 33.04	6.92	14 50 7.70	41.830 .965	B 15.2	53 45 19.1	21.9
17	B. D.+53° 497	9	12 6.80	0.38	24.56	2 11 41.86	6.96	14 48 8.80	40.415 .550	A 15.3	53 49 21.0	21.2
18	B. D.+53° 513	9	15 26.51	0.38	24.57	2 15 1.56	6.98	14 48 8.98	45.725 .800	15.2	53 47 47.6	20.8
19	B. D.+53° 519	9	17 52.17	0.38	24.57	2 17 27.22	-6.99	14 48 9.10	45.520 .655	B 15.2	53 44 31.2	-20.4
20	Eros	II	25 50.89	-0.38	-24.57	2 25 25.94	....	13 54 9.28	43.660 .850 .680 .970	14.3	+52 53 8.5	....
21	B. D.+53° 547	9	29 6.75	-0.38	-24.57	2 28 41.80	-7.08	14 52 10.15	49.475 .600	15.3	+53 53 1.3	-18.9
22	B. D.+52° 602	9	31 24.32	0.38	24.57	2 30 59.37	6.93	13 24 10.52	43.155 .200	13.7	52 22 58.0	18.7
23	B. D.+49° 741	9	34 49.86	0.36	24.57	2 34 24.93	6.69	10 40 9.32	41.675 .730	B 10.8	49 35 13.6	18.5
24	B. D.+49° 743	8	34 56.54	0.37	24.57	2 34 31.60	6.70	10 40 9.40	41.750 .735	A 10.9	49 41 39.5	18.5
25	B. D.+42° 610	9	37 5.81	-0.34	-24.57	2 36 40.90	-6.18	3 36 8.28	45.185 .240	3.7	+42 35 24.5	-18.9
26	B. D.+40° 577	7	37 52.01	-0.33	-24.57	2 37 27.11	-6.08	2 2 9.08	45.350 .335	A 2.2	+41 4 41.1	-19.0
27	B. D.+40° 590	9	40 18.39	0.33	24.57	2 39 53.49	6.09	2 2 9.00	49.210 .235	2.1	41 2 40.9	18.6
28	B. D.+45° 660	9	41 5.17	0.35	24.57	2 40 40.25	6.39	6 30 9.20	47.070 .135	6.6	45 30 4.9	18.1
29	B. D.+47° 700	9	42 15.31	0.36	24.57	2 41 50.38	6.59	9 2 9.18	48.145 .215	9.2	48 2 28.1	17.7
30	B. D.+45° 667	9	44 40.80	-0.35	-24.57	2 44 15.88	-6.42	6 40 8.30	46.245 .310	6.8	+45 39 48.4	-17.6
31	γ Persei	IO	58 5.06	-0.38	-24.52	2 57 .....	....	14 8 9.95	43.630 .795 .665 .890	14.5	+53 7 ....	....
32	β Persei	II	2 10.64	0.33	24.62	3 1 .....	....	1 34 8.12	48.665 .830 .650 .890	1.7	40 34 ....	....
33	α Persei	II	17 42.67	0.36	24.67	3 17 .....	....	10 30 9.40	48.225 .385 .235 .490	10.7	49 30 ....	....
34	2 H ₂ Camelop.....	6	21 31.08	-0.42	-24.51	3 21 .....	....	20 36 9.22	45.070 .195 .095 .255	21.6	+59 35 ....	....

1900 OCTOBER 27.

CLAMP WEST.

BOEGER, ASSISTANT.

KING, OBSERVER.

35	ο Cassiopeia.....	II	39 39.30	-0.42	-24.18	ο 39 .....	....	8 44 9.45	49.005 .190 .040 .200	8.8	+47 44 ....	....
36	γ Cassiopeia.....	II	51 11.63	0.52	24.19	ο 50 .....	....	21 10 10.40	49.170 .375 .190 .415	22.2	60 11 ....	....
37	ξ Andromedæ.....	II	16 57.49	0.40	24.22	1 16 .....	....	6 0 8.80	49.190 .345 .210 .410	6.1	45 0 ....	....
38	δ Cassiopeia.....	II	19 48.05	-0.51	-24.18	1 19 .....	....	20 44 8.32	44.150 .310 .160 .365	21.7	+59 43 ....	....
39	B. D.+48° 455	9	25 57.15	-0.42	-24.19	1 25 32.54	-6.14	9 16 8.22	49.070 .175	9.4	+48 16 45.5	-27.5
40	B. D.+48° 470	9	28 51.22	0.43	24.19	1 28 26.60	6.22	10 4 8.88	45.100 .140	10.2	49 3 31.1	27.1
41	B. D.+44° 329	9	29 50.93	0.40	24.19	1 29 26.34	5.93	5 26 7.90	44.830 .870	5.5	44 25 19.3	27.2
42	B. D.+47° 460	9	30 51.03	-0.42	-24.19	1 30 26.42	-6.18	9 14 8.00	44.200 .230	9.3	+48 13 11.0	-26.9

Time.	Barom.	Att. Ther.	Ex. Ther.	Telescope micrometer bisections are made at III and V, except as noted below.				No.	Eq. Points.
d h m	in.	°	°						° ' "
26 1 20	30.025	59.8	58.4	1, 2, 20, 31, 32, 33, 34, 35, 36, 37, 38.				1	321 5 44.5
1 50	30.02	59.7	58.4	6.				2	42.5
2 20	30.005	59.0	58.0	23, 40.				31	43.5
2 50	29.995	58.9	57.9	24.				32	44.5
3 26	29.99	59.0	58.2	25, 26.				33	44.3
0 38	29.92	60.8	60.0					34	44.1
1 20	29.92	60.3	59.2					35	43.3
								36	44.7
								37	44.0
								38	43.0

Note.
Oct. 27. Good seeing at first; mist at end.

Adopted Equator Point.... 1-42 321° 5' 43".76

NO.	NAME.	THDS.	MEAN THREAD.	INST. COR.	CLOCK COR.	APPARENT R. A.	RED. TO 1900.0	CIRCLE READING.	MICROMETER READINGS.	REFR.	APPARENT DECL.	RED. TO 1900.0
			m s	s	s	h m s	s	° ' "	r r		° ' "	"
1	B. D. 41° 321	9	34 11.85	-0.39	-24.20	1 33 47.26	-5.84	3 14 7.22	48.015 .095	C 3.3	42 14 17.9	-26.7
2	B. D. 42° 351	9	36 28.48	0.39	24.20	1 36 3.89	5.87	3 28 8.52	48.255 .245	A 3.4	42 21 57.9	26.5
3	B. D. 42° 354	9	36 46.43	0.39	24.20	1 36 21.84	5.88	3 28 9.40	47.500 .610	A 3.6	42 31 23.8	26.4
4	B. D. 42° 360	8	38 35.77	0.39	24.20	1 38 11.18	5.90	3 42 8.38	45.235 .250	A 3.8	42 44 40.4	26.2
5	B. D. 42° 373	9	41 55.94	0.39	24.20	1 41 31.35	5.91	3 42 8.28	46.080 .095	A 3.6	42 35 16.4	25.9
6	B. D. 42° 375	9	42 26.24	0.39	24.20	1 42 1.65	5.92	3 42 8.22	40.470 .560	A 3.8	42 43 9.6	25.8
7	B. D. 41° 352	9	43 25.86	-0.39	-24.20	1 43 1.27	-5.90	3 14 8.62	44.000 .050	C 3.3	42 13 0.4	-25.7
8	B. D. 42° 390	9	45 52.32	-0.39	-24.20	1 45 27.73	-5.92	3 14 8.80	44.740 .870	A 3.3	42 16 31.9	-25.4
9	B. D. 41° 364	9	47 40.63	0.39	24.20	1 47 16.04	5.92	3 4 9.40	42.845 .980	A 3.1	42 2 41.3	25.2
10	B. D. 39° 431	9	49 7.93	0.38	24.20	1 48 43.35	5.83	1 10 10.25	47.840 .920	A 1.2	40 10 15.5	25.1
11	B. D. 38° 392	9	55 17.23	0.38	24.20	1 54 52.65	5.81	0 8 7.65	49.955 .020	A 0.2	39 8 53.4	21.5
12	B. D. 38° 391	9	55 18.85	0.38	24.20	1 54 54.27	5.81	0 8 7.75	46.570 .625	A 0.2	39 7 45.8	24.5
13	B. D. 53° 521	9	18 0.48	0.46	24.20	2 17 35.82	6.96	14 20 8.00	44.990 .105	A 14.7	53 19 32.4	-20.7
14	Eros	11	24 10.94	-0.45	-24.20	2 23 46.29	...	14 6 9.58	43.730 .900	A 14.4	53 5 10.0	...
15	B. D. 51° 594	9	28 11.18	-0.44	-24.20	2 27 46.54	6.85	12 36 8.38	44.910 .015	B 12.8	51 32 16.1	-18.0
16	B. D. 51° 599	9	30 27.32	0.44	24.20	2 30 2.68	6.86	12 36 8.10	43.430 .515	B 12.8	51 31 47.2	19.2
17	B. D. 51° 604	9	32 8.94	0.44	24.20	2 31 44.30	6.88	12 36 8.22	45.520 .615	A 12.9	51 38 53.5	18.9
18	B. D. 51° 618	9	36 10.37	0.44	24.20	2 35 45.73	6.89	12 36 8.25	44.175 .250	C 12.7	51 28 49.3	18.4
19	B. D. 51° 620	9	37 9.69	0.44	24.20	2 36 45.05	6.94	13 0 8.22	45.265 .320	C 13.3	51 59 35.9	18.2
20	B. D. 50° 617	8	37 55.49	-0.44	-24.20	2 37 30.85	-6.83	11 48 7.45	47.510 .620	A 12.0	50 48 15.7	-18.2
21	B. D. 51° 626	9	40 24.88	-0.44	-24.20	2 40 0.24	-6.94	12 48 7.68	44.530 .550	B 13.0	51 47 21.5	-17.8
22	B. D. 51° 628	9	40 37.93	0.44	24.20	2 40 13.29	6.93	12 48 7.42	44.150 .225	B 13.0	51 43 58.6	17.7
23	B. D. 49° 782	8	43 30.26	0.43	24.20	2 43 5.63	6.75	10 40 7.65	44.835 .905	B 10.8	49 36 11.6	17.6
24	B. D. 45° 665	9	44 31.43	0.40	24.20	2 44 6.83	6.41	6 32 7.08	47.240 .270	C 6.5	45 25 39.5	17.8
25	B. D. 45° 669	9	45 26.67	0.41	24.20	2 45 2.06	6.43	6 32 7.05	45.310 .380	A 6.7	45 34 43.9	17.7
26	B. D. 45° 679	9	49 46.06	-0.40	-24.20	2 49 21.46	-6.43	6 32 6.95	49.250 .315	C 6.5	45 26 18.4	-17.1
27	γ Persei	11	58 4.78	-0.45	-24.15	2 57	...	14 8 9.72	43.670 .805	A 14.4	53 7	...
28	β Persei	11	2 10.39	0.38	24.30	3 1	...	1 34 7.85	48.610 .795	A 1.6	40 34	...
29	α Persei	11	17 42.31	0.43	24.22	3 17	...	10 30 8.82	48.280 .435	A 10.7	49 30	...
30	2 H. Camelop.	11	21 30.84	-0.51	-24.15	3 21	...	20 36 9.42	45.055 .220	A 21.6	59 35	...
									.065 .305			

KING, OBSERVER.

1900 OCTOBER 29.

CLAMP WEST.

BOEGER, ASSISTANT.

31	α Cassiopeiae	11	39 38.91	-0.26	-23.96	0 39	...	8 44 9.68	49.005 .160	A 8.9	47 44	...
32	γ Cassiopeiae	11	51 11.24	0.30	24.04	0 50	...	21 10 10.18	49.185 .335	A 22.3	60 11	...
33	ϵ Andromedae	11	16 57.10	0.25	23.97	1 16	...	6 0 8.50	49.260 .435	A 6.1	45 0	...
34	δ Cassiopeiae	11	19 47.63	-0.30	23.97	1 19	...	20 44 8.80	44.120 .240	A 21.8	59 43	...
35	B. D. 47° 434	9	25 22.07	-0.25	23.97	1 24 57.85	-6.12	8 54 9.08	48.340 .365	A 9.1	47 54 32.4	-28.0
36	B. D. 47° 434	9	25 23.97	0.25	23.97	1 24 59.75	6.12	8 54 8.95	48.870 .980	A 9.1	47 54 40.6	28.0
37	B. D. 47° 442	8	26 47.22	0.25	23.97	1 26 23.00	6.13	8 54 9.18	48.905 .005	A 9.1	47 54 41.4	27.9
38	B. D. 47° 450	9	28 35.65	-0.25	-23.97	1 28 11.43	-6.15	8 54 9.15	49.695 .785	A 9.1	47 54 58.1	-27.7
39	B. D. 47° 463	9	31 10.66	-0.26	-23.97	1 30 46.43	-6.16	8 54 9.10	50.360 .445	C 9.0	47 48 44.7	-27.4
40	B. D. 44° 335	9	32 35.20	0.24	23.97	1 32 10.99	5.96	5 16 10.58	45.945 .985	A 5.4	44 18 58.2	27.3
41	B. D. 44° 346	9	35 15.43	0.24	23.97	1 34 51.22	5.97	5 16 10.72	49.720 .825	A 5.4	44 16 56.6	27.0
42	B. D. 43° 364	9	40 45.86	0.24	23.96	1 40 21.66	6.01	5 16 10.88	45.625 .730	C 5.2	44 9 12.1	26.4
43	B. D. 53° 398	9	44 31.50	-0.27	-23.96	1 44 7.27	-6.71	14 22 9.62	45.200 .240	C 14.7	53 15 12.2	-25.6

Time.	Barom.	Att. Ther.	Ex. Ther.	Telescope micrometer bisections are made at III and V, except as noted below.				No.	Eq. Points.
d h m	in.	°	°						° ' "
27 1 50	29.92	60.0	59.3	2, 5, 11, 18, 21, 35, 43.	Bisections at I, III.			27	321 5 43.3
2 20	29.92	60.0	59.0	3, 7, 12, 20, 22, 36, 37.	Bisections at V, VII.			28	43.3
2 50	29.92	59.2	58.7	14, 27, 28, 29, 30, 31, 32, 33, 34.	Bisections at I, II, VI, VII.			29	44.3
3 24	29.915	59.0	58.2	24.	Bisections at IV, V.			30	44.2
29 0 41	29.81	56.0	55.2					31	42.8
1 20	29.81	55.6	55.0					32	44.0
1 50	29.81	55.0	54.6					33	44.8
				Note. Oct. 29. Very good seeing.				34	42.2
Adopted Equator Point.... 1-30 321° 5' 43".76									
31-43 43 .60									

OBSERVATIONS OF EROS AND REFERENCE STARS.

B 21

NO.	NAME.	THDS.	MEAN THREAD.	INST. COR.	CLOCK COR.	APPARENT R. A.	RED. TO 1900.0	CIRCLE READING.	MICROMETER READINGS.	REFR.	APPARENT DECL.	RED. TO 1900.0
			m s	s	s	h m s	s	° ' "	r r		° ' "	"
1	B. D. +53° 402	9	45 42.63	-0.27	-23.96	1 45 18.40	-6.73	14 22 9.75	48.655 .700	C	14.8 +53 22 44.9	-25.4
2	B. D. +39° 421	8	46 55.45	0.24	23.96	1 46 31.25	5.82	1 10 8.60	47.330 .355	A	1.1 40 3 37.5	25.8
3	B. D. +40° 394	9	47 47.35	0.24	23.96	1 47 23.13	5.84	1 10 8.35	51.385 .440	A	1.3 40 14 36.4	25.7
4	B. D. +39° 434	9	49 22.62	0.24	23.96	1 48 58.42	5.84	1 10 8.55	46.835 .915	A	1.3 40 13 9.6	25.5
5	B. D. +39° 447	9	52 52.28	-0.24	-23.96	1 52 28.08	-5.86	1 10 8.45	46.875 .955	C	1.1 +40 3 29.1	-25.1
6	B. D. +39° 448	9	54 6.26	-0.24	-23.95	1 53 42.07	-5.86	1 10 8.35	41.930 .050	B	1.2 +40 5 7.7	-24.9
7	B. D. +39° 454	9	56 15.19	0.24	23.95	1 55 51.00	5.88	1 10 8.35	41.535 .595	A	1.3 40 11 27.5	24.7
8	B. D. +39° 468	9	1 0.38	0.24	23.95	2 0 36.19	5.90	1 8 10.12	45.980 .045		1.2 40 7 39.7	-24.1
9	Eros	11	20 40.95	-0.27	-23.94	2 20 16.74	....	14 28 10.30	42.675 .810		14.9 +53 26 50.9	....
									.700 .910			
10	B. D. +52° 587	9	23 23.70	-0.27	-23.94	2 22 59.49	-6.95	13 38 9.02	44.020 .070		14.0 +52 37 13.7	-20.6
11	B. D. +53° 539	9	26 1.25	0.28	23.94	2 25 37.03	7.10	14 52 8.62	47.435 .520		15.3 53 52 20.4	20.1
12	B. D. +50° 587	9	28 54.86	0.26	23.93	2 28 30.67	6.81	11 46 9.55	44.550 .585		12.0 50 45 22.2	19.9
13	B. D. +49° 733	9	33 20.11	0.26	23.93	2 32 55.92	6.77	11 6 9.28	45.100 .200		11.3 50 5 32.4	19.4
14	B. D. +49° 752	9	37 16.92	0.26	23.93	2 36 52.73	6.78	10 58 7.90	46.190 .250		11.2 49 57 52.4	18.8
15	B. D. +46° 622	9	38 24.23	-0.25	-23.93	2 38 0.05	-6.49	7 26 7.98	45.275 .345		7.6 +46 25 30.5	-19.0
16	B. D. +46° 628	9	39 53.62	-0.25	-23.93	2 39 29.44	-6.53	7 50 7.70	43.725 .775		8.0 +46 49 0.7	-18.8
17	B. D. +46° 638	10	42 21.31	0.25	23.93	2 41 57.13	6.52	7 34 7.72	44.060 .170		7.7 46 33 5.7	18.4
18	B. D. +45° 662	9	43 25.64	0.25	23.93	2 43 1.46	6.48	7 0 9.22	45.235 .320		7.1 45 59 29.0	18.4
19	B. D. +44° 591	9	45 37.24	0.25	23.92	2 45 13.07	6.39	5 36 8.02	46.440 .445	A	5.8 44 39 6.2	18.2
20	B. D. +44° 593	9	45 47.36	0.24	23.92	2 45 23.20	6.38	5 36 7.98	45.885 .000	C	5.6 44 29 13.3	18.2
21	B. D. +44° 598	9	49 59.44	-0.25	-23.92	2 49 35.27	-6.40	5 36 7.88	43.545 .620		5.7 +44 34 55.4	-17.6
22	γ Persei	11	58 4.40	-0.27	-23.91	2 57 .....	....	14 8 10 15	43.680 .820		14.5 +53 7 .....	....
									.700 .865			
23	β Persei	11	2 9.89	0.24	-23.91	3 1 .....	....	1 34 8.18	48.625 .810		1.7 40 34 .....	....
									.650 .855			
24	α Persei	11	17 41.86	0.26	-23.90	3 17 .....	....	10 30 9.32	48.305 .415		10.7 49 30 .....	....
									.315 .450			
25	2 H. Camelop.	11	21 30.45	-0.30	-23.92	3 21 .....	....	20 36 10.82	45.000 .135		21.7 +59 35 .....	....
									.020 .190			

1900 NOVEMBER 4. CLAMP WEST. KING, OBSERVER. BROWN, ASSISTANT.

26	γ Andromedæ....	11	58 14.26	-0.35	-22.39	1 57 .....	....	2 52 9.10	45.175 .325		3.0 +41 51 .....	....
									.200 .370			
27	B. D. +37° 488	9	3 23.04	0.33	22.38	2 3 0.33	-5.85	359 4 8.88	46.390 .485		0.9 +38 3 44.6	-25.0
28	Eros	11	9 6.73	0.42	22.38	2 8 33.93	....	15 12 9.45	43.105 .265		15.8 +54 10 59.3	....
									.130 .360			
29	θ Persei.....	11	37 51.61	-0.38	-22.44	2 37 .....	....	9 48 8.55	48.750 .960		10.1 +48 48 .....	....
									.750 .975			
30	B. D. +41° 538	6	41 11.60	-0.34	-22.38	2 40 48.88	-6.25	2 46 8.88	45.955 .960		2.9 +41 45 40.2	-20.1
31	B. D. +49° 773	13	41 34.74	0.39	22.38	2 41 11.97	6.86	10 40 8.75	46.365 .415		11.0 49 39 53.7	19.6
32	B. D. +44° 591	9	45 35.98	0.36	22.38	2 45 13.24	-6.47	5 40 8.28	44.095 .160		5.8 44 39 7.3	-19.4
33	τ Persei.....	11	47 39.80	-0.41	-22.38	2 47 .....	....	13 22 9.82	44.790 .935		13.8 +52 21 .....	....
									.795 .020			
34	γ Persei.....	11	58 3.05	-0.42	-22.30	2 57 .....	....	14 8 9.25	43.785 .925		14.7 +53 7 .....	....
									.805 .960			

1900 NOVEMBER 5. CLAMP WEST. KING, OBSERVER. BOEGER, ASSISTANT.

35	σ Cassiopeiæ.....	11	39 37.33	-0.27	-22.41	0 39 .....	....	8 44 9.28	49.110 .215		9.0 +47 44 .....	....
									.120 .295			
36	γ Cassiopeiæ.....	11	51 9.54	-0.33	-22.35	0 50 .....	....	21 10 10.02	49. ... .415		22.4 +60 11 .....	....
									.245 .470			

Time.	Barom.	Att. Ther.	Ex. Ther.	Telescope micrometer bisections are made at III and V, except as noted below.				No.	Eq. Points.
d h m	in.	°	°						° ' "
29 2 15	29.81	54.8	54.3	1, 14, 30, 32.	Bisections at I, III.			22	321 5 43.4
2 51	29.81	54.7	54.0	2.	Bisections at IV, V.			23	43.6
3 27	29.805	54.2	53.3	9, 22, 23, 24, 25, 26, 28, 29, 33, 34, 35.	Bisections at I, II, VI, VII.			24	44.3
4 1 58	29.67	49.1	47.9	17, 18, 20, 31.	Bisections at V, VII.			25	43.7
2 33	29.67	48.3	47.0	19.	Bisections at II, III.			26	44.0
2 57	29.66	47.7	47.2	36.	Bisections at II, VI, VII.			29	44.3
5 0 41	29.78	52.3	51.5					33	42.8
				Note.				34	43.3
				Nov. 4. Seeing very poor; stars very unsteady and diffuse.				35	42.8
				Adopted Equator Point....	1-34 321° 5' 43".60			36	43.2

NO.	NAME.	THDS.	MEAN THREAD.	INST. COR.	CLOCK COR.	APPARENT R. A.	RED. TO 1900.0	CIRCLE READING.	MICROMETER READINGS.		REFR.	APPARENT DECL.	RED. TO 1900.0
			m s	s	s	h m s	s	° ' "	r	r	"	° ' "	"
1	ξ Andromedæ.....	II	16 55.52	-0.27	-22.39	1 16 .....	....	6 0 7.52	49.350 .375	.505 .550	6.2	+45 0 ....	....
2	δ Cassiopeiae.....	II	19 46.05	-0.32	-22.38	1 19 .....	....	20 44 8.90	44.220 .230	.415 .470	21.9	+59 43 ....	....
3	B. D.+47° 429	9	25 2.31	-0.27	-22.37	1 24 39.67	-6.09	8 24 8.72	44.610	.725	8.6	+47 23 20.1	-29.6
4	B. D.+50° 299	9	26 51.51	0.28	22.37	1 26 28.86	6.31	11 22 7.42	47.495	.520	11.6	50 19 4.3	29.4
5	B. D.+50° 301	9	27 28.92	0.28	22.37	1 27 6.27	6.32	11 22 7.65	48.245	.280	11.7	50 22 31.1	29.4
6	B. D.+44° 326	9	29 6.39	0.27	22.37	1 28 43.75	5.99	6 6 8.18	45.155	.260	6.2	45 5 27.6	29.1
7	B. D.+47° 462	9	31 1.65	0.27	22.37	1 30 39.01	6.16	8 34 8.95	47.320	.390	8.8	47 34 13.1	29.0
8	B. D.+45° 394	9	31 53.82	-0.27	-22.37	1 31 31.18	-6.03	6 32 8.95	42.345	.440	6.6	+45 27 21.6	-28.8
9	B. D.+45° 422	9	36 52.75	-0.27	-22.37	1 36 30.11	-6.08	6 32 8.90	48.780	.805	6.7	+45 32 38.5	-28.2
10	B. D.+45° 424	9	37 33.11	0.27	22.37	1 37 10.47	6.08	6 32 8.98	50.240	.270	6.6	45 26 39.6	28.2
11	B. D.+40° 364	9	41 5.68	0.26	22.37	1 40 43.05	5.86	2 4 7.95	45.690	.780	2.2	41 3 33.4	27.7
12	B. D.+40° 384	9	46 5.97	0.26	22.37	1 45 43.34	5.89	2 4 7.85	48.430	.550	2.1	40 58 0.1	27.1
13	B. D.+40° 390	9	47 17.66	0.26	22.37	1 46 55.03	5.90	2 4 8.20	44.400	.500	2.1	40 59 55.9	27.0
14	B. D.+40° 401	9	49 7.56	-0.26	-22.36	1 48 44.94	-5.92	2 10 8.25	45.260	.330	2.2	+41 9 25.3	-26.8
15	B. D.+39° 450	9	54 57.23	-0.25	-22.36	1 54 34.62	-5.88	0 34 7.05	42.765	.890	0.6	+39 29 22.1	-26.1
16	B. D.+39° 457	7	58 13.74	0.25	22.36	1 57 51.13	5.90	0 34 7.30	50.100	.225	0.7	39 34 56.2	25.7
17	B. D.+38° 402	9	59 11.86	0.25	22.36	1 58 49.25	5.88	359 58 8.25	46.320	.430	0.0	38 57 43.8	25.6
18	B. D.+38° 416	9	3 17.64	0.25	22.36	2 2 55.03	-5.90	359 58 8.10	40.090	.240	0.0	38 52 50.7	-25.1
19	Eros.....	II	7 4.81	-0.30	-22.36	2 6 42.15	....	15 16 9.15	43.435	.610	15.8	+54 15 5.4	....
20	B. D.+37° 589	9	32 38.54	-0.25	-22.35	2 32 15.94	-5.98	358 32 6.80	45.780	.655	1.4	+37 31 30.7	-21.6
21	B. D.+37° 596	9	35 22.81	0.25	22.35	2 35 0.21	6.01	358 50 8.18	42.815	.850	1.1	37 48 35.8	21.3
22	B. D.+41° 517	9	36 16.13	0.26	22.35	2 35 53.52	6.24	2 46 8.42	44.600	.690	2.9	41 45 13.7	21.0
23	B. D.+42° 615	9	37 35.42	0.26	22.35	2 37 12.81	6.28	3 12 8.75	47.285	.385	3.3	42 12 6.0	20.8
24	B. D.+41° 530	9	39 41.08	0.26	22.35	2 39 18.47	6.28	3 12 8.60	40.290	.360	3.2	42 6 39.4	20.5
25	B. D.+43° 574	9	40 29.78	-0.26	-22.35	2 40 7.17	-6.37	4 18 8.18	46.180	.265	4.5	+43 21 0.1	-20.3
26	B. D.+43° 579	9	42 12.48	-0.26	-22.35	2 41 49.87	-6.36	4 18 8.30	40.105	.180	4.3	+43 12 35.5	-20.1
27	B. D.+43° 580	9	43 3.72	0.26	22.34	2 42 41.12	6.42	5 0 9.05	38.840	.950	5.1	43 54 13.2	19.9
28	B. D.+43° 586	9	44 35.82	0.26	22.34	2 44 13.22	6.43	5 0 9.00	47.570	.605	5.1	43 56 59.8	19.7
29	B. D.+47° 720	9	46 6.62	0.27	22.34	2 45 44.01	6.71	8 30 7.30	48.005	.120	8.8	47 30 24.0	19.3
30	B. D.+42° 650	9	48 55.82	-0.26	-22.34	2 48 33.22	-6.37	3 50 8.85	42.795	.925	3.9	+42 48 40.9	-19.2
31	γ Persei.....	II	58 2.90	-0.29	-22.26	2 57 .....	....	14 8 9.82	43.775	.935	14.7	+53 7 ....	....
32	β Persei.....	II	2 8.52	0.26	22.42	3 1 .....	....	1 34 8.22	48.680	.875	1.7	40 34 ....	....
33	α Persei.....	II	17 40.44	0.28	22.32	3 17 .....	....	10 30 9.10	48.290	.495	10.8	49 30 ....	....
34	2 H. Camelop.....	II	21 29.06	-0.32	-22.34	3 21 .....	....	20 36 8.90	45.165	.355	21.9	+59 35 ....	....
									.320 .535 .175				

KING, OBSERVER.

1900 NOVEMBER 9.

CLAMP WEST.

BOERGER, ASSISTANT.

35	ο Cassiopeiae.....	II	39 37.22	-0.22	-22.38	0 39 .....	....	8 44 9.12	49.160 .165	.285 .350	9.2	+47 44 ....	....
36	γ Cassiopeiae.....	II	51 9.50	0.33	22.35	0 50 .....	....	21 10 10.70	49.250 .260	.345 .420	23.0	60 11 ....	....
37	ξ Andromedæ.....	II	16 55.59	0.21	22.50	1 16 .....	....	6 0 9.75	49.260 .265	.400 .455	6.3	45 0 ....	....
38	δ Cassiopeiae.....	II	19 46.10	-0.32	-22.45	1 19 .....	....	20 44 10.70	44.130 .140	.255 .350	22.5	+59 43 ....	....
39	B. D.+46° 373	9	25 16.66	-0.22	-22.44	1 24 54.00	-6.07	8 4 9.18	45.350	.440	8.5	+47 3 35.0	-30.4
40	B. D.+45° 376	9	28 29.01	0.21	22.44	1 28 6.36	6.00	6 24 8.98	50.075	.125	6.8	45 28 18.1	30.0
41	B. D.+45° 383	9	29 44.44	0.21	22.44	1 29 21.79	6.01	6 24 8.95	42.825	.920	6.7	45 19 31.5	29.8
42	B. D.+46° 397	9	30 47.40	0.22	22.44	1 30 24.74	6.11	7 50 9.35	(44)780	.840	8.2	46 49 23.7	29.8
43	B. D.+45° 392	9	31 42.47	-0.22	-22.44	1 31 19.81	-6.06	6 58 8.82	45.040	.105	7.3	+45 57 27.3	-29.6

Time.

Barom.

Att.
Ther.Ex.
Ther.

Telescope micrometer bisections are made at III and V, except as noted below.

No.

Eq. Points.

d h m

in.

°

°

1, 2, 19, 31, 32, 33, 34, 35, 36, 37, 38. Bisections at I, II, VI, VII.
4, 7, 9, 21, 24. Bisections at I, III.1 321 5 43.9
2 43.0
31 43.5
32 43.6
33 43.5
34 44.0
35 43.1
36 42.8
37 43.5
38 42.1

Notes.

Nov. 5. Very good seeing, though slightly unsteady at beginning.
9. Conditions excellent. High wind.Adopted Equator Point.... 1-34 321° 5' 43'' .44
35-43 42 .75

NO.	NAME.	THDS.	MEAN THREAD.	INST. COR.	CLOCK COR.	APPARENT R. A.	RED. TO 1900.0	CIRCLE READING.	MICROMETER READINGS.	REFR.	APPARENT DECL.	RED. TO 1900.0
			m s	s	s	h m s	s	° ' "	r r		° ' "	"
1	B. D. +44° 337	9	32 49.27	-0.21	-22.44	1 32 26.62	-6.02	6 10 9.68	46.115 .180		6.5 +45 9 48.0	-29.5
2	B. D. +43° 343	9	33 49.63	0.20	22.44	1 33 26.99	5.96	4 54 8.42	44.200 .255		5.2 43 53 8.6	29.3
3	B. D. +44° 352	9	36 19.52	0.21	22.44	1 35 56.87	6.05	6 4 9.22	49.060 .240		6.4 45 4 45.0	29.1
4	B. D. +44° 354	9	37 39.90	0.21	22.45	1 37 17.24	6.05	5 50 9.72	45.435 .500		6.1 44 49 34.6	28.9
5	B. D. +41° 347	9	42 13.73	0.19	22.45	1 41 51.09	5.92	2 56 8.98	46.585 .660		3.1 41 55 53.0	28.3
6	B. D. +40° 400	9	48 55.94	-0.19	-22.45	1 48 33.30	-5.90	1 24 8.30	48.115 .175		1.5 +40 24 19.9	-27.5
7	B. D. +40° 406	9	51 42.37	-0.18	-22.46	1 51 19.73	-5.91	1 24 8.15	44.630 .690	C	1.4 +40 16 46.9	-27.2
8	B. D. +40° 412	9	52 49.21	0.19	22.46	1 52 26.56	5.92	1 24 9.68	43.215 .280	A	1.6 40 26 2.2	27.1
9	B. D. +37° 452	9	54 46.93	0.18	22.46	1 54 24.29	5.82	359 8 9.52	44.665 .685		0.8 38 7 12.3	26.7
10	B. D. +37° 465	9	57 6.58	0.18	22.46	1 56 43.94	-5.84	359 8 9.80	45.110 .210	B	0.9 38 4 8.7	-26.5
11	Eros	11	58 52.72	-0.27	-22.46	1 58 29.99	....	15 22 11.18	44.615 .740		14.3 +54 21 28.7	....
12	B. D. +37° 488	9	3 22.92	-0.18	-22.46	2 3 0.28	-5.87	359 4 8.80	46.425 .480		0.9 +38 3 45.5	-25.8
13	B. D. +51° 587	9	25 27.30	0.25	22.48	2 25 4.57	7.00	12 52 10.02	46.840 .980		13.7 51 52 10.1	25.2
14	B. D. +39° 613	9	36 42.93	0.18	22.49	2 36 20.26	6.14	0 22 8.72	47.990 .080		0.5 39 22 17.2	21.6
15	B. D. +40° 581	9	38 21.66	0.19	22.49	2 37 58.98	6.20	1 18 9.68	49.090 .220	A	1.5 40 21 55.4	21.4
16	B. D. +39° 628	8	40 6.67	-0.18	-22.49	2 39 44.00	-6.20	1 18 10.05	47.730 .750	C	1.3 +40 11 48.6	-21.2
17	B. D. +41° 538	8	41 11.55	-0.19	-22.49	2 40 48.87	-6.30	2 46 10.20	45.830 .845		2.9 +41 45 40.0	-21.0
18	B. D. +41° 541	9	41 55.18	0.19	22.49	2 41 32.50	6.28	2 28 9.90	44.695 .750		2.6 41 27 17.0	20.9
19	B. D. +41° 543	9	42 41.45	0.20	22.49	2 42 18.76	6.33	3 0 11.18	47.300 .380		3.2 42 0 9.1	20.8
20	B. D. +41° 550	8	44 36.24	0.19	22.49	2 44 13.56	6.30	2 36 9.02	45.055 .130	B	2.7 41 32 10.2	20.5
21	B. D. +41° 556	9	46 23.71	-0.19	-22.50	2 46 1.02	-6.32	2 36 8.95	49.765 .870		2.8 +41 36 54.0	-20.3
22	γ Persei	11	58 3.15	-0.26	-22.49	2 57 .....	....	14 8 10.10	43.730 .880		15.0 +53 7 ....	....
23	β Persei	11	2 8.67	0.19	22.59	3 1 .....	....	1 34 8.98	48.615 .780		1.7 40 34 ....	....
24	α Persei	11	17 40.69	0.24	22.55	3 17 .....	....	10 30 9.32	48.315 .455		11.1 49 30 ....	....
25	2 H. Camelop.	11	21 29.22	-0.32	-22.42	3 21 .....	....	20 36 9.90	45.080 .260		22.4 +59 35 ....	....

1900 NOVEMBER 11.						CLAMP WEST.				BROWN, ASSISTANT.		
KING, OBSERVER.												
26	2 Persei	11	46 17.23	-0.20	-22.95	1 45 .....	....	11 18 9.82	47.645 .795		11.9 +50 18 ....	....
27	B. D. +37° 468	9	57 35.16	0.13	22.94	1 57 12.09	-5.85	359 10 8.95	48.190 .275		0.8 38 10 19.5	-26.7
28	6 Persei	11	7 27.00	-0.21	-22.92	2 7 .....	....	11 36 9.05	48.035 .155		12.3 +50 36 ....	....
29	B. D. +40° 567	9	34 41.64	0.15	22.98	2 34 18.51	-6.23	1 58 9.08	43.175 .210	B	2.0 40 53 32.7	-22.2
30	B. D. +40° 570	9	36 7.67	0.15	22.98	2 35 44.54	-6.24	1 58 9.12	48.000 .035		2.1 40 58 19.5	-22.0
31	θ Persei	11	37 52.01	-0.20	-22.95	2 37 .....	....	9 48 9.90	48.720 .855		10.4 +48 48 ....	....
32	B. D. +48° 750	9	39 26.18	-0.19	-22.99	2 39 3.00	-6.82	9 32 9.38	48.210 .305		10.1 +48 32 29.6	-21.5
33	B. D. +44° 577	6	41 30.25	0.17	22.99	2 41 7.09	6.54	5 52 9.50	43.995 .020		6.2 44 51 6.9	21.2
34	B. D. +42° 638	9	44 35.70	-0.16	-23.00	2 44 12.54	-6.42	3 54 9.05	48.050 .110		4.1 +42 54 21.3	-24.0
35	τ Persei	11	47 40.40	-0.22	-23.08	2 47 .....	....	13 22 10.00	44.820 .030		14.2 +52 21 ....	....
36	γ Persei	11	58 3.63	-0.23	-22.97	2 57 .....	....	14 8 9.68	43.845 .915		15.1 +53 7 ....	....

Time.	Barom.	Att. Ther.	Ex. Ther.	Telescope micrometer bisections are made at III and V, except as stated below.					No.	Eq. Points.					
d h m	in.	°	°							°	'	"			
9 1 35	29.78	38.3	38.0	II.	Bisections at II, VI.				22	321	5	42.5			
1 50	29.775	38.3	37.8	16, 17, 30.	Bisections at I, III.				23			42.1			
2 20	29.80	37.6	37.3	22, 23, 24, 25, 26, 28, 31, 35, 36.	Bisections at I, II, VI, VII.				24			43.2			
2 50	29.80	37.3	37.0	32.	Bisections at V, VII.				25			42.7			
3 26	29.80	37.2	37.0	33.	Bisections at II, III.				26			43.2			
11 1 43	29.84	40.2	39.9	34.	Bisections at IV, V.				29			42.8			
2 25	29.82	39.1	37.9	Note. Nov. 11. Good seeing.					31			43.5			
3 0	29.82	38.5	36.9									35			43.0
											36			43.3	
					Adopted Equator Point.					1-25	321°	5'	42'' .75		
										26-36			43 .16		

1900 NOVEMBER 12.										CLAMP WEST.					BOEGER, ASSISTANT.				
KING, OBSERVER.																			
NO.	NAME.	THDS.	MEAN THREAD.	INST. COR.	CLOCK COR.	APPARENT R. A.	RED. TO 1900.0	CIRCLE READING.	MICROMETER READINGS.	REFR.	APPARENT DECL.	RED. TO 1900.0							
			m s	s	s	h m s	s	° ' "	r r		° ' "	"							
1	α Cassiopeiae.....	11	39 37.99	-0.20	-23.20	0 39 .....	....	8 44 9.82	49.135 .310......335		9.1	+47 44 ....	....						
2	γ Cassiopeiae.....	11	51 10.34	0.32	23.24	0 50 .....	....	21 10 10.20	49.350 .450 .395 .530		22.9	60 11 ....	....						
3	ξ Andromedae.....	11	16 56.25	0.18	23.20	1 16 .....	....	6 0 9.20	49.345 .520 .355 .600		6.3	45 0 ....	....						
4	δ Cassiopeiae.....	11	19 46.78	-0.32	-23.14	1 19 .....	....	20 44 9.45	44.300 .445 .310 .560		22.4	+59 43 ....	....						
5	B. D.+46° 370	9	24 35.48	-0.19	-23.20	1 24 12.09	-6.02	7 30 7.95	46.800 .850		7.8	+46 29 59.6	-31.0						
6	B. D.+49° 414	9	28 49.29	0.22	23.20	1 28 25.87	6.30	11 2 8.90	45.090 .105		11.6	50 1 32.2	30.7						
7	B. D.+46° 389	9	29 59.88	0.19	23.20	1 29 36.49	6.07	7 32 8.50	39.875 .900	C	7.7	46 23 21.8	30.4						
8	B. D.+46° 393	12	30 28.71	0.19	23.20	1 30 5.32	6.08	7 32 8.62	51.460 .540	A	8.0	46 36 42.7	30.4						
9	B. D.+46° 404	8	31 42.41	0.19	23.20	1 31 19.02	6.09	7 32 8.30	50.755 .830	C	7.8	46 26 48.3	30.2						
10	B. D.+43° 337	8	33 9.04	-0.17	-23.20	1 32 45.67	-5.94	4 36 8.52	45.110 .115	A	4.9	+43 38 38.9	-29.9						
11	B. D.+43° 341	9	33 39.52	-0.17	-23.20	1 33 16.15	-5.94	4 36 8.48	44.745 .860	(B)	4.8	+43 32 3.0	-29.8						
12	B. D.+41° 329	9	36 45.90	0.16	23.20	1 36 22.54	-5.85	2 26 9.15	46.755 .845		2.6	41 25 55.2	29.4						
13	B. D.+41° 342	9	41 40.57	0.16	23.21	1 41 17.20	-5.91	2 42 9.38	47.310 .425		2.9	41 42 6.6	28.9						
14	B. D.+41° 353	9	43 43.58	0.16	23.21	1 43 20.21	-5.91	2 28 9.58	42.985 .055	A	2.6	41 29 57.9	28.6						
15	B. D.+41° 362	9	47 12.46	0.16	23.21	1 46 49.09	-5.94	2 28 9.55	46.265 .400	C	2.5	41 21 20.6	28.2						
16	B. D.+41° 374	8	50 57.71	-0.16	-23.21	1 50 34.34	-5.97	2 22 8.35	44.990 .060	A	2.6	+41 24 36.2	-27.8						
17	B. D.+41° 377	8	51 38.87	-0.16	-23.21	1 51 15.50	-5.97	2 22 8.28	41.800 .835	B	2.4	+41 17 5.9	-27.7						
18	Eros.....	11	52 49.85	0.26	23.21	1 52 26.38	....	15 16 9.82	45.060		16.2	54 15 36.1	....						
19	B. D.+40° 415	9	54 8.53	0.16	23.21	1 53 45.16	-5.96	1 52 9.58	47.990 .065		2.0	40 52 18.6	27.4						
20	B. D.+40° 421	9	55 10.53	0.16	23.21	1 54 47.16	-5.97	1 52 9.68	50.230 .355		2.0	40 53 2.1	27.3						
21	B. D.+39° 464	9	0 12.58	0.14	23.21	1 59 49.23	-5.93	0 18 8.68	45.015 .080		0.4	39 17 18.9	26.6						
22	B. D.+38° 408	9	0 51.91	-0.14	-23.21	2 0 28.56	-5.88	359 26 8.02	46.520 .605		0.5	+38 25 44.8	-26.5						
23	B. D.+37° 486	9	2 56.26	-0.14	-23.21	2 2 32.91	-5.85	358 24 8.00	45.785 .890		1.6	+37 23 31.4	-26.2						
24	B. D.+39° 609	7	36 7.38	0.15	23.22	2 35 44.01	6.20	1 6 8.58	44.135 .240		1.2	40 5 4.1	22.2						
25	B. D.+42° 613	9	37 34.51	0.16	23.22	2 37 11.13	6.38	3 48 9.00	44.620 .665		4.0	42 47 16.0	22.0						
26	B. D.+40° 582	9	38 25.76	0.15	23.22	2 38 2.39	6.24	1 42 9.20	44.885 .965		1.8	40 41 18.5	21.9						
27	B. D.+40° 589	9	39 58.44	-0.15	-23.22	2 39 35.07	-6.24	1 30 8.90	46.195 .320		1.6	+40 29 43.5	-21.7						
28	B. D.+42° 628	9	41 22.83	-0.17	-23.22	2 40 59.44	-6.41	4 0 9.22	44.780 .860		4.2	+42 59 18.9	-21.5						
29	B. D.+40° 602	9	42 33.88	0.15	23.22	2 42 10.51	6.26	1 34 8.95	47.185 .240		1.7	40 34 2.0	21.3						
30	B. D.+44° 582	9	43 34.66	0.18	23.22	2 43 11.26	6.57	6 0 8.88	45.780 .840		6.3	44 59 39.6	21.2						
31	B. D.+40° 610	8	44 21.16	0.15	23.22	2 43 57.79	6.26	1 26 9.70	42.800 .900		1.5	40 24 37.3	21.1						
32	B. D.+42° 643	9	46 35.95	-0.16	-23.22	2 46 12.57	-6.40	3 22 8.90	46.500 .595		3.5	+42 21 51.0	-20.8						
33	γ Persei.....	11	58 3.85	-0.24	-23.17	2 57 .....	....	14 8 9.90	43.850 .995 .860 .075		14.9	+53 7 ....	....						
34	β Persei.....	11	2 9.35	0.15	23.27	3 1 .....	....	1 34 8.82	48.735 .860 .745 .940		1.7	40 34 ....	....						
35	α Persei.....	11	17 41.39	0.21	23.23	3 17 .....	....	10 30 9.95	48.350 .480 .360 .535		11.0	49 30 ....	....						
36	2 H. Camelop.....	11	21 30.11	-0.32	-23.25	3 21 .....	....	20 36 10.08	45.160 .320 .185 .450		22.3	+59 35 ....	....						

1900 NOVEMBER 17.										CLAMP EAST.					BOEGER, ASSISTANT.				
KING, OBSERVER.																			
37	γ Cassiopeiae.....	11	51 12.84	-0.52	-25.61	0 50 .....	....	338 42 11.00	41.675 .530 .650 .455		23.3	+60 11 ....	....						
38	ξ Andromedæ.....	11	16 58.78	-0.32	-25.64	1 16 .....	....	353 50 10.35	48.070 .930 .065 .865		6.4	+45 0 ....	....						

Time.	Barom.	Att. Ther.	Ex. Ther.	Telescope micrometer bisections are made at III and V, except as noted below.										No.	Eq. Points.		
d h m	in.	°	°												° ' "		
12 0 41	29.62	40.6	40.4	I.										1	321 5 43.1		
1 23	29.62	39.2	38.2	2, 3, 4, 33, 34, 35, 36, 37, 38.										2	43.7		
1 56	29.61	38.7	38.2	6, 7, 16, 24, 25.										3	44.5		
2 18	29.60	38.5	38.0	8, 9, 11.										4	43.6		
2 48	29.595	38.0	38.0	10.										33	43.7		
3 26	29.58	37.5	36.9	17.										34	43.5		
				18.										35	43.5		
				22, 31.										36	43.8		
				Note.										37	38 56 43.0		
				Nov. 12. Stars somewhat unsteady and not well defined.										38	43.8		
				Adopted Equator Point.... 1-36 321° 5' 43".68													

NO.	NAME.	THDS.	MEAN THREAD.	INST. COR.	CLOCK COR.	APPARENT R. A.	RED. TO 1900.0	CIRCLE READING.	MICROMETER READINGS.	REFR.	APPARENT DECL.	RED. TO 1900.0	
			m s	s	s	h m s	s	° ' "	r		" ° ' "	"	
1	δ Cassiopeiae	11	19 49.26	-0.52	-25.47	1 19		339 8 10.90	46.780 .760	.635	22.8	+59 43	
2	B. D.+51° 317	9	24 58.47	-0.39	-25.58	1 24 32.50	-6.34	347 16 9.90	47.155	.145	13.5	+51 35 13.6	-32.3
3	B. D.+51° 323	9	26 18.88	0.40	25.58	1 25 52.90	6.38	346 54 10.20	45.220	.325	13.9	51 57 49.7	32.1
4	B. D.+52° 387	9	31 11.93	0.41	25.58	1 30 45.94	6.50	346 16 10.42	43.995	.890	14.6	52 36 15.7	31.6
5	B. D.+51° 344	9	31 42.03	0.40	25.58	1 31 16.05	6.47	346 48 10.35	42.895	.810	B 14.1	52 7 47.3	31.5
6	B. D.+51° 360	9	34 7.09	0.40	25.59	1 33 41.10	6.50	346 48 10.50	39.570	.540	B 14.1	52 8 53.3	31.3
7	B. D.+51° 364	9	34 42.96	-0.40	-25.59	1 34 16.97	-6.50	346 48 10.35	41.270	.145	A 14.0	+52 1 52.8	-31.2
8	B. D.+52° 406	12	35 55.94	-0.41	-25.59	1 35 29.94	-6.58	346 6 7.32	43.860	.790	C 14.9	+52 52 47.3	-31.1
9	B. D.+52° 424	9	38 31.10	0.41	25.59	1 38 5.10	6.60	346 6 7.15	48.385	.260	A 14.7	52 41 40.3	30.8
10	B. D.+52° 441	8	42 25.70	0.41	25.59	1 41 59.70	6.65	346 6 11.20	46.345	.335	14.8	52 45 29.1	30.3
11	B. D.+55° 440	9	49 46.86	0.41	25.59	1 49 20.83	6.99	343 32 8.50	42.735	.720	17.7	55 20 43.7	29.5
12	B. D.+55° 464	9	53 23.97	-0.44	-25.59	1 52 57.94	-7.04	343 32 10.00	39.730	.670	A 17.7	+55 18 25.8	-29.1
13	β Trianguli	11	4 7.05	-0.23	-25.63	2 3		4 20 9.25	46.100 .085	.950	4.6	+34 31	
14	γ Trianguli	11	11 53.62	0.22	25.63	2 11		5 28 9.20	45.445 .430	.290	5.8	33 23	
15	θ Persei	11	37 54.82	-0.36	-25.56	2 37		350 2 10.48	48.590 .595	.445	10.5	+48 48	

1900 NOVEMBER 21.

CLAMP EAST.

KING, OBSERVER.

BROWN, ASSISTANT.

16	α Cassiopeiae	11	39 41.79	-0.46	-26.85	0 39 .....	....	351 6 10.38	46.850 .840	.690	8.8	+47 44 ....	....
17	γ Cassiopeiae	11	51 14.18	0.66	26.88	0 50 .....	....	338 40 9.80	46.675 .635	.540	22.0	60 11 ....	....
18	ξ Andromedae	10	17 0.08	0.43	26.86	1 16 .....	....	353 50 7.38	46. ... .680	.725	6.1	45 0 ....	....
19	δ Cassiopeiae	11	19 50.78	-0.65	-26.90	1 19 .....	....	339 8 7.80	45.550 .550	.480	21.6	+59 43 ....	....
20	B. D.+50° 297	9	26 15.34	-0.50	-26.88	1 25 47.96	-6.28	347 54 9.05	50.390 .390	.345	12.1	+50 55 47.0	-32.8
21	B. D.+50° 300	7	27 22.57	0.50	26.88	1 26 55.19	6.30	347 54 9.35	41.360	.315	12.1	50 58 37.6	32.7
22	B. D.+51° 338	9	29 56.42	0.51	26.88	1 29 29.03	6.38	347 12 9.40	44.480	.420	12.8	51 39 40.9	32.5
23	B. D.+52° 393	9	33 5.74	0.53	26.88	1 32 38.33	6.51	346 8 9.98	42.475	.410	14.0	52 44 20.0	32.2
24	B. D.+51° 357	7	33 47.76	0.51	26.88	1 33 20.37	-6.44	347 6 9.45	43.135	.055	13.0	51 46 5.2	-32.1
25	Eros	11	37 6.93	-0.53	-26.88	1 36 39.52	....	345 50 9.48	38.870 .855	.775	14.3	+53 3 29.9	....
26	B. D.+54° 383	9	43 14.02	-0.56	-26.88	1 42 46.58	-6.82	344 12 8.95	46.345	.295	B 16.0	+54 39 8.7	-31.2
27	B. D.+54° 388	9	44 32.17	0.56	26.88	1 44 4.73	6.84	344 12 9.00	42.000	.920	B 16.1	54 43 45.4	31.0
28	B. D.+54° 396	9	45 59.48	0.56	26.88	1 45 32.04	6.86	344 12 9.10	44.700	.605	B 16.0	54 39 38.6	30.8
29	B. D.+54° 424	9	51 47.35	0.56	26.89	1 51 19.90	6.96	343 58 9.52	45.605	.540	B 16.3	54 53 22.7	30.1
30	B. D.+54° 444	9	57 1.51	0.56	26.89	1 56 34.06	7.01	344 10 9.05	42.865	.820	B 16.1	54 45 29.5	29.5
31	B. D.+54° 448	8	57 41.01	-0.56	-26.89	1 57 13.56	-7.01	344 10 9.10	43.415	.315	A 16.0	+54 38 50.4	-29.4
32	B. D.+54° 470	9	4 2.52	-0.56	-26.89	2 3 35.07	-7.11	344 0 9.50	41.060	.960	A 16.2	+54 49 35.4	-28.6
33	B. D.+54° 494	8	8 16.76	0.56	26.89	2 7 49.31	7.17	344 0 9.60	45.555	.395	16.2	54 51 24.4	28.0
34	B. D.+54° 525	7	14 38.86	0.56	26.89	2 14 11.41	7.25	344 0 9.60	46.855	.800	C 16.4	54 57 23.0	27.2
35	B. D.+54° 535	9	17 29.01	0.56	26.89	2 17 1.56	7.28	344 0 9.70	44.270	.225	B 16.3	54 55 1.0	26.8
36	B. D.+54° 539	9	18 49.96	-0.56	-26.89	2 18 22.51	-7.29	344 0 9.88	44.315	.190	A 16.2	+54 48 30.8	-26.6
37	θ Persei	11	37 56.27	-0.47	-26.88	2 37 .....	....	350 2 7.70	47.425 .430	.290	10.0	+48 48 ....	....
38	η Persei	11	43 58.99	0.57	26.85	2 43 .....	....	343 22 9.80	46.175 .155	.035	17.0	55 29 ....	....
39	τ Persei	11	47 44.66	-0.52	-26.97	2 47 .....	....	346 30 9.42	44.920 .905	.780	13.6	+52 21 ....	....

Time.	Barom.	Att. Ther.	Ex. Ther.	Telescope micrometer bisections are made at III and V, except as noted below.				No.	Eq. Points.
d h m	in.	°	°						° ' "
17 0 48	30.12	39.2	38.3	I, 13, 14, 15, 16, 17, 19, 25, 37, 38, 39.				I	38 56 43.8
1 15	30.12	39.0	38.0	5, 24, 28, 34, 36.				13	44.3
1 53	30.12	38.2	37.4	6.				14	45.6
2 22	30.12	38.3	37.7	11.				15	43.5
2 38	30.11	38.3	37.7	18, 21.				16	19.0
21 0 42	29.80	61.9	61.1	30.				17	19.7
1 22	29.82	60.0	60.0	Notes.				18	18.9
1 50	29.83	59.7	59.2	Nov. 17. Fair seeing at beginning, but later stopped by thin clouds.				19	20.1
2 21	29.83	58.8	58.5	21. Extremely bad seeing.				37	19.9
2 49	29.84	58.0	57.2	Adopted Equator Point. ...				38	19.9
				I-15 38° 56' 44".00				39	20.5
				16-39 19 .71					

1900 NOVEMBER 22.													CLAMP EAST.				HAMMOND, ASSISTANT.				
KING, OBSERVER.																					
NO.	NAME.	THDS.	MEAN THREAD.		INST. COR.	CLOCK COR.	APPARENT R. A.			RED. TO 1900.0	CIRCLE READING.			MICROMETER READINGS.			REFR.	APPARENT DECL.			RED. TO 1900.0
			m	s	s	s	h	m	s	s	°	'	"	r	r		"	°	'	"	"
1	α Cassiopeiae.....	11	39	41.58	-0.47	-26.64	0	39	.....	....	351	6	9.82	46.750	.640		8.9	+47	44	....	....
2	γ Cassiopeiae.....	11	51	13.95	0.65	26.68	0	50	.....	....	338	40	10.02	46.560	.395	22.2	60	11	....	....	
3	ξ Andromedæ.....	11	16	59.96	0.44	26.73	1	16	.....	....	353	50	9.58	46.690	.540	6.1	45	0	....	....	
4	δ Cassiopeiae.....	11	19	50.50	-0.65	-26.63	1	19	.....	....	339	8	10.58	45.325	.160	21.7	+59	43	....	....	
5	B. D.+49° 401	8	25	11.30	-0.50	-26.66	1	24	44.14	-6.20	348	46	9.65	41.940	.880	B	11.3	+50	9	40.1	-33.0
6	B. D.+45° 379	8	29	6.25	0.46	26.66	1	28	39.13	5.99	352	54	9.30	42.	.685	B	7.1	46	1	19.5	32.2
7	B. D.+45° 392	9	31	46.96	0.46	26.66	1	31	19.84	6.02	352	54	9.12	44.730	.640	A	7.0	45	57	28.9	31.9
8	B. D.+45° 398	9	32	55.58	0.46	26.66	1	32	28.46	6.03	352	54	9.22	40.255	.240	A	7.0	45	55	39.1	31.8
9	B. D.+54° 368	9	38	20.87	0.57	26.65	1	37	53.65	6.72	344	28	10.65	44.980	.855	15.8	54	23	31.6	31.9	
10	B. D.+54° 393	9	45	27.55	-0.57	-26.65	1	45	0.33	-6.82	344	28	10.75	46.470	.360	B	15.8	+54	26	15.9	-31.1
11	B. D.+53° 440	9	57	19.12	-0.57	-26.64	1	56	51.91	-6.96	344	38	10.40	45.950	.885		15.6	+54	13	12.5	-29.6
12	B. D.+54° 452	9	58	32.30	0.57	26.64	1	58	5.09	6.98	344	38	10.35	43.985	.855	B	15.6	54	17	4.0	29.5
13	B. D.+54° 457	9	59	42.75	0.57	26.64	1	59	15.54	7.01	344	24	11.13	45.255	.185		15.8	54	27	25.3	29.3
14	B. D.+53° 453	9	2	10.87	0.57	26.64	2	1	43.66	7.01	344	50	9.88	44.485	.395	C	15.5	54	8	7.2	29.0
15	B. D.+53° 486	9	8	39.17	-0.57	-26.64	2	8	11.96	-7.09	344	50	9.85	46.325	.220	B	15.4	+54	4	19.2	-28.1
16	B. D.+53° 494	9	11	41.32	-0.57	-26.64	2	11	14.11	-7.11	344	50	9.88	48.155	.085		15.3	+54	0	30.5	-27.7
17	B. D.+53° 507	9	14	54.59	0.57	26.63	2	14	27.39	7.16	344	50	9.90	48.845	.745	B	15.4	51	3	30.7	27.3
18	B. D.+53° 541	9	26	30.45	0.58	26.63	2	26	3.24	7.30	344	50	10.05	49.360	.280	C	15.5	54	6	33.5	25.7
19	B. D.+51° 598	9	29	49.90	0.55	26.63	2	29	22.72	7.11	346	50	10.30	49.040	.990	B	13.3	52	3	24.0	25.2
20	B. D.+51° 616	9	35	55.98	-0.55	-26.62	2	35	28.81	-7.17	346	50	10.32	47.275	.200		13.2	52	0	44.9	-24.3
21	B. D.+48° 750	9	39	30.32	-0.50	-26.62	2	39	3.20	-6.88	350	18	8.80	47.875	.790		9.6	48	32	31.4	-23.7
22	B. D.+43° 576	9	41	32.56	0.44	26.62	2	41	5.50	6.53	355	0	9.30	44.400	.345		4.9	43	51	32.6	23.2
23	B. D.+47° 702	7	42	53.38	0.48	26.62	2	42	26.28	6.80	351	38	9.62	46.630	....		8.3	47	12	53.0	23.1
24	B. D.+47° 714	7	45	14.05	0.49	26.62	2	44	46.94	6.89	350	50	8.72	41.070	.925	B	9.2	48	5	55.3	22.8
25	B. D.+47° 721	9	46	25.18	-0.49	-26.62	2	45	58.07	-6.89	350	50	8.58	46.580	.935		9.1	+48	0	53.4	-22.6
26	γ Persei.....	11	58	7.66	-0.57	-26.57	2	57	.....	....	345	44	10.08	45.825	.680		14.4	+53	7	....	....
27	β Persei.....	11	2	12.97	0.40	26.56	3	1	.....	....	358	16	9.65	47.370	.180		1.6	40	34	....	....
28	α Persei.....	11	17	45.16	0.51	26.58	3	17	.....	....	349	20	9.12	47.590	.500		10.7	49	30	....	....
29	2 H. Camelop.....	11	21	34.09	-0.70	-26.72	3	21	.....	....	339	16	10.35	44.410	.270		21.5	+59	35	....	....
														.450	.185						

1900 NOVEMBER 27.													CLAMP EAST.				HAMMOND, ASSISTANT.				
KING, OBSERVER.																					
NO.	NAME.	THDS.	MEAN THREAD.		INST. COR.	CLOCK COR.	APPARENT R. A.			RED. TO 1900.0	CIRCLE READING.			MICROMETER READINGS.			REFR.	APPARENT DECL.			RED. TO 1900.0
			m	s	s	s	h	m	s	s	°	'	"	r	r		"	°	'	"	"
30	α Cassiopeiae.....	11	39	41.01	-0.32	-26.29	0	39	.....	....	351	6	10.10	46.490	.380		9.1	+47	44	....	....
31	γ Cassiopeiae.....	11	51	13.27	0.52	26.23	0	50	.....	....	338	40	10.35	46.210	.120	22.7	60	11	....	....	
32	ξ Andromedæ.....	11	16	59.37	0.29	26.32	1	16	.....	....	353	50	9.65	46.370	.230	6.2	45	0	....	....	
33	δ Cassiopeiae.....	11	19	49.83	-0.50	-26.18	1	19	.....	....	339	8	9.85	45.130	.980	22.2	+59	43	....	....	
34	B. D.+47° 434 ¹	9	25	24.56	-0.32	-26.26	1	24	57.98	-6.01	351	0	9.78	44.815	.700	B	9.2	+47	54	38.7	-33.6
35	B. D.+47° 434 ²	8	25	26.44	-0.32	-26.26	1	24	59.86	-6.01	351	0	9.85	44.225	.120	B	9.2	+47	54	46.7	-33.6

Time.	Barom.	Att. Ther.	Ex. Ther.	Telescope micrometer bisections are made at III and V, except as noted below.										No.	Eq. Points.	
d h m	in.	°	°													
22 0 41	29.75	56.1	55.0	1, 2, 3, 4, 26, 27, 28, 29, 30, 31, 32, 33.										1	38 56 17.0	
1 21	29.74	56.5	56.0	5, 34.										2	17.5	
1 50	29.73	57.1	57.0	6.										3	17.3	
2 15	29.73	57.2	57.0	23.										4	17.7	
2 48	29.72	57.2	56.8	25.										26	18.3	
3 26	29.71	56.8	56.0	35.										27	18.4	
0 39	29.72	44.5	44.3											28	17.4	
1 20	29.73	44.2	44.0											29	17.8	
Notes.																
Nov. 22. Conditions for observing bad in the extreme.																
Stars unsteady and diffuse. Faint stars impossible.																
27. Conditions for observing very good.																
Adopted Equator Point.... 1-29 38° 56' 17".68																
30-35 13 .11																

OBSERVATIONS OF EROS AND REFERENCE STARS.

B 27

NO.	NAME.	THDS.	MEAN THREAD.	INST. COR.	CLOCK COR.	APPARENT R. A.	RED. TO 1900.0	CIRCLE READING.	MICROMETER READINGS.	REFR.	APPARENT DECL.	RED. TO 1900.0
			m s	s	s	h m s	s	° ' "	r r		° ' "	"
1	B. D. +47° 442	9	20 49.69	-0.32	-26.26	1 26 23.11	-6.03	351 0 9.75	44.280 .130	B	9.2 +47 54 46.2	-33.4
2	B. D. +47° 450	8	28 38.15	0.32	26.26	1 28 11.57	-6.06	351 0 9.78	43.425 .405	B	9.2 +47 55 4.3	-33.3
3	Eros.....	9	30 11.69	-0.37	-26.27	1 29 45.05	....	347 18 10.35	40.175 .105		13.1 +51 34 56.6	....
									.155 .020			
4	B. D. +47° 463	8	31 13.18	-0.32	-26.27	1 30 46.59	-6.08	351 4 9.50	40.190 .160		9.1 +47 48 50.7	-33.0
5	B. D. +44° 335	6	32 37.71	0.28	26.27	1 32 11.16	5.90	354 40 9.50	40.760 .645	C	5.5 +44 19 3.2	32.4
6	B. D. +44° 346	9	35 17.88	0.28	26.27	1 34 51.33	5.93	354 40 9.32	47.130 .110	C	5.5 +44 17 1.8	32.1
7	B. D. +43° 364	9	40 48.25	0.28	26.27	1 40 21.70	5.98	354 40 9.35	41.140 .030	A	5.4 +44 9 16.7	31.5
8	B. D. +39° 421	9	46 58.03	0.24	26.27	1 46 31.52	5.83	358 44 8.78	45.875 .805	A	1.2 +40 3 41.9	30.3
9	B. D. +40° 394	9	47 49.86	-0.24	-26.27	1 47 23.35	-5.85	358 44 8.75	41.795 .710	C	1.3 +40 14 41.1	-30.2
10	B. D. +39° 434	9	49 25.15	-0.24	-26.27	1 48 58.64	-5.86	358 44 8.70	46.350 .285	C	1.3 +40 13 13.6	-30.0
11	B. D. +39° 447	9	52 54.73	0.24	26.27	1 52 28.22	5.89	358 44 8.78	46.325 .240	A	1.2 +40 3 33.4	29.6
12	B. D. +39° 448	9	54 8.82	0.24	26.27	1 53 42.31	5.90	358 44 8.72	41.180 .090	A	1.2 +40 5 12.2	29.5
13	B. D. +39° 454	9	56 17.67	0.24	26.27	1 55 51.16	5.92	358 44 8.88	41.630 .505	B	1.3 +40 11 31.7	29.3
14	B. D. +39° 468	9	1 2.89	0.24	26.28	2 0 36.37	5.96	358 44 8.68	43.420 .365		1.2 +40 7 43.7	-28.7
15	B. D. +53° 470	9	5 33.49	-0.41	-26.28	2 5 6.80	-7.02	344 46 ....	....		.... +54 5 ....	....
16	B. D. +50° 587	9	28 57.45	-0.36	-26.29	2 28 30.80	-6.98	348 6 10.30	44.720 .645		12.3 +50 45 28.4	-26.2
17	B. D. +49° 733	9	33 22.90	0.35	26.29	2 32 56.26	6.96	348 46 9.80	44.150 .070		11.6 +50 5 39.2	25.5
18	B. D. +46° 622	9	38 26.93	0.31	26.29	2 38 0.33	6.70	352 26 9.70	44.160 .080		7.7 +46 25 35.2	24.6
19	B. D. +46° 628	9	39 56.54	0.31	26.29	2 39 29.94	6.75	352 2 9.65	45.640 .590		8.1 +46 49 7.0	24.4
20	B. D. +46° 638	9	42 24.25	-0.31	-26.29	2 41 57.65	-6.75	352 18 9.98	45.450 .390		7.9 +46 33 11.2	-24.0
21	B. D. +45° 662	8	43 28.46	-0.30	-26.29	2 43 1.87	-6.71	352 52 9.65	44.190 .150		7.3 +45 59 35.0	-23.8
22	B. D. +46° 644	9	44 8.27	0.31	26.29	2 43 41.67	6.80	351 52 10.02	41.965 .935		8.3 +47 0 16.8	23.8
23	B. D. +44° 591	9	45 40.09	0.29	26.29	2 45 13.51	6.63	354 20 10.50	40.410 .420	C	5.9 +44 39 10.4	23.4
24	B. D. +44° 593	9	45 50.21	0.29	26.29	2 45 23.63	6.62	354 20 10.62	40.930 .810	A	5.7 +44 29 18.0	23.4
25	B. D. +44° 598	9	50 2.11	-0.29	-26.29	2 49 35.53	-6.66	354 20 10.70	43.390 .270	B	5.8 +44 35 1.6	-22.8
26	γ Persei.....	11	58 7.23	-0.39	-26.30	2 57 .....	....	345 44 10.72	45.490 .345		14.9 +53 7 ....	....
									.480 .275			
27	β Persei.....	11	2 12.66	0.25	26.37	3 1 .....	....	358 16 9.58	47. .... .875		1.7 +40 34 ....	....
									.065 .825			
28	α Persei.....	11	17 44.75	0.34	26.31	3 17 .....	....	349 20 9.15	47.360 .245		11.0 +49 30 ....	....
									.340 .195			
29	2 H. Camelop.....	11	21 33.45	-0.50	-26.23	3 21 .....	....	339 16 10.42	44.185 .040		22.2 +59 35 ....	....
									.180 .935			

1900 NOVEMBER 30.

CLAMP EAST.

HAMMOND, ASSISTANT.

KING, OBSERVER.

30	α Cassiopeiæ.....	11	39 42.01	-0.28	-27.38	0 39 .....	....	351 6 10.35	46.435 .250		9.2 +47 44 ....	....
									.420 .185			
31	γ Cassiopeiæ.....	11	51 14.25	0.52	27.27	0 50 .....	....	338 40 11.10	46.115 .970		23.1 +60 11 ....	....
									.120 .875			
32	ξ Andromedæ.....	11	17 0.35	0.24	27.39	1 16 .....	....	353 50 10.82	46.225 .070		6.3 +45 0 ....	....
									.210 .975			
33	δ Cassiopeiæ.....	11	19 50.80	-0.51	-27.19	1 19 .....	....	339 8 11.40	44.925 .730		22.6 +59 43 ....	....
									.925 .645			
34	B. D. +48° 453	9	25 28.02	-0.30	-27.32	1 25 0.40	-6.04	350 2 10.65	42.005 .870		10.4 +48 50 16.9	-34.1
35	B. D. +50° 298	9	26 46.64	0.32	27.32	1 26 19.00	6.18	348 10 11.15	40.780 .690	A	12.3 +50 39 26.6	34.2
36	Eros.....	11	28 10.09	0.32	27.32	1 27 42.45	....	348 10 11.52	46.340 .175		12.4 +50 40 54.9	....
37	B. D. +48° 477	9	30 36.87	0.29	27.32	1 30 9.26	6.10	350 10 10.38	42. .... .320		10.2 +48 42 9.1	33.6
38	B. D. +50° 314	12	31 18.55	0.33	27.32	1 30 50.90	6.25	348 6 11.28	44.205 .105		12.5 +50 45 34.2	33.8
39	B. D. +44° 341	7	33 3.88	-0.24	-27.32	1 32 36.32	-5.90	353 58 10.05	42.660 .500		6.2 +44 53 59.4	-32.8

Time.	Barom.	Att. Ther.	Ex. Ther.	Telescope micrometer bisections are made at III and V, except as noted below.		No.	Eq. Points.
d h m	in.	°	°				° ' "
27 1 50	29.73	43.8	43.8	1, 4, 5, 24, 38, 39.	Bisections at V, VII.	26	38 56 12.9
2 20	29.74	43.3	43.0	2, 23.	Bisections at II, III.	27	13.3
2 50	29.75	43.0	42.4	3.	Bisections at II, III, V, VI.	28	13.6
3 27	29.75	42.2	41.8	20, 21.	Bisections at I, III.	29	13.7
30 0 41	29.91	38.1	38.9	22.	Bisections at I, V.	30	11.4
1 20	29.90	38.4	38.5	26, 28, 29, 30, 31, 32, 33.	Bisections at I, II, VI, VII.	31	11.0
				27.	Bisections at II, VI, VII.	32	10.5
				36.	Bisections at II, VI.	33	11.3
				37.	Bisection at V.		
Note.							
Nov. 30. Seeing good.							
Adopted Equator Point.... 1-29 38° 56' 13".11							
30-39 { 1 ^h .030 11.05							
{ 3.168 11.98							

NO.	NAME.	THDS.	MEAN THREAD.	INST. COR.	CLOCK COR.	APPARENT R. A.	RED. TO 1900.0	CIRCLE READING.	MICROMETER READINGS.	REFR.	APPARENT DECL.	RED. TO 1900.0
			m s	s	s	h m s	s	° ' "	r r		° ' "	"
1	B. D. +44° 347	9	35 21.51	-0.24	-27.32	1 34 53.95	-5.91	354 20 9.80	44.670 .585	B	5.8 +44 31 21.7	-32.5
2	B. D. +42° 352	9	36 37.27	0.22	27.32	1 36 9.73	5.86	355 42 10.92	46.860 .765		4.4 43 8 37.3	32.2
3	B. D. +42° 356	9	37 50.90	0.22	27.32	1 37 23.36	5.87	355 42 11.00	44.535 .485		4.4 43 12 34.5	32.1
4	B. D. +42° 361	9	38 47.20	0.22	27.32	1 38 19.66	5.88	355 42 11.08	44.865 .770		4.4 43 9 15.3	32.0
5	B. D. +42° 370	9	40 50.25	0.22	27.32	1 40 22.71	5.90	355 42 11.15	43.760 .695	B	4.5 43 12 49.4	31.7
6	B. D. +43° 373	9	43 44.84	-0.22	-27.33	1 43 17.29	-5.94	355 42 11.22	47.705 .595	C	4.5 +43 14 46.9	-31.4
7	B. D. +42° 388	9	45 36.68	-0.22	-27.33	1 45 9.13	-5.95	355 48 10.68	47.895 .770		4.3 +43 2 18.0	-31.2
8	B. D. +54° 413	9	48 47.83	0.39	27.33	1 48 20.11	6.78	344 36 11.08	47.215 .085		16.3 54 14 42.6	32.2
9	B. D. +54° 431	9	53 30.90	0.39	27.33	1 53 3.18	6.86	344 36 11.20	48.705 .555	C	16.4 54 20 40.1	31.6
10	B. D. +40° 423	9	55 42.56	0.19	27.33	1 55 15.01	5.93	358 6 10.32	48.220 .100		1.9 40 44 9.6	29.8
11	B. D. +53° 460	8	3 59.52	-0.37	-27.33	2 3 31.82	-6.91	345 28 11.92	46.985 .895		15.3 +53 22 44.9	-30.2
12	B. D. +53° 470	9	5 34.35	-0.39	-27.33	2 5 6.63	-7.00	344 46 11.00	45.405 .305		16.1 +54 5 17.0	-30.1
13	B. D. +52° 549	9	9 2.76	0.37	27.34	2 8 35.05	6.96	345 44 10.98	45.790 .660		15.0 53 7 8.8	29.6
14	B. D. +52° 563	8	12 40.76	0.37	27.34	2 12 13.05	7.00	345 44 11.08	45.180 .060		15.0 53 7 20.4	29.1
15	B. D. +52° 592	9	25 37.94	0.36	27.34	2 25 10.24	7.09	346 28 11.02	43.295 .175		14.3 52 23 56.0	-27.3
16	B. D. +52° 595	9	27 51.67	-0.36	-27.34	2 27 23.97	-7.11	346 28 11.10	43.440 .315		14.3 +52 23 53.2	-27.0
17	B. D. +52° 602	9	31 27.38	-0.36	-27.35	2 30 59.67	-7.15	346 28 11.28	45.890 .765		14.2 +52 23 5.9	-26.5
18	B. D. +52° 609	9	33 58.77	0.36	27.35	2 33 31.06	7.18	346 28 11.18	46.730 .610		14.2 52 22 49.9	26.2
19	B. D. +52° 617	9	36 54.68	0.35	27.35	2 36 26.98	7.21	346 30 12.10	48.565 .410		14.2 52 20 14.1	25.7
20	B. D. +43° 566	9	38 8.41	0.23	27.35	2 37 40.83	6.51	351 58 11.18	46.530 .380		5.2 43 52 45.1	24.9
21	B. D. +47° 692	9	39 33.03	-0.28	-27.35	2 39 5.40	-6.82	351 8 10.50	43.840 .720		9.2 +47 43 41.1	-25.0
22	B. D. +47° 698	9	41 54.80	-0.28	-27.35	2 41 27.17	-6.84	351 8 10.32	43.145 .090	B	9.3 +47 47 8.4	-24.7
23	B. D. +42° 633	8	42 46.98	0.21	27.35	2 42 19.42	6.45	356 32 10.42	44.535 .505		3.5 42 19 22.3	24.1
24	B. D. +42° 637	9	44 1.82	0.21	27.35	2 43 34.26	5.46	356 32 11.20	41.760 .690	B	3.6 42 23 28.4	23.9
25	B. D. +42° 638	9	44 40.45	0.22	27.35	2 44 12.88	6.50	355 56 9.45	47.520 .465		4.1 42 54 25.9	23.9
26	B. D. +46° 648	9	45 34.39	-0.26	-27.35	2 45 6.78	-6.76	352 24 10.12	48.375 .290		7.8 +46 26 11.1	-24.1
27	γ Persei	11	58 8.17	-0.37	-27.25	2 57 .....	....	345 44 10.80	45.420 .265		15.1 +53 7 .....	....
28	β Persei	11	2 13.60	0.19	27.86	3 1 .....	....	358 16 9.92	46.970 .765		1.7 40 34 .....	....
29	α Persei	11	17 45.85	0.31	27.42	3 17 .....	....	349 20 9.88	47.205 .080		11.1 49 30 .....	....
30	2 H. Camelop.	11	21 34.66	-0.50	-27.42	3 21 .....	....	339 16 10.65	44.090 .975		22.5 +59 35 .....	....
									.100 .810			

KING, OBSERVER.

1900 DECEMBER 5.

CLAMP EAST.

HAMMOND, ASSISTANT.

31	α Cassiopeiae	11	39 43.86	-0.16	-29.42	0 39 .....	....	351 6 11.58	46.255 .130		9.2 +47 44 .....	....
32	γ Cassiopeiae	9	51 16.20	0.35	29.51	0 50 .....	....	338 40 10.52	46.055 .970		23.0 60 11 .....	....
33	ξ Andromedae	11	17 2.27	0.13	29.48	1 16 .....	....	353 50 10.35	46.200 .085		6.3 45 0 .....	....
34	δ Cassiopeiae	9	19 52.88	-0.34	-29.54	1 19 .....	....	339 8 11.58	44.815 .680		22.5 +59 43 .....	....
35	B. D. +49° 403	9	25 28.08	-0.19	-29.50	1 24 58.39	-6.05	348 56 11.52	44.780 .750		11.5 +49 55 23.4	-35.0
36	Eros	11	27 0.81	-0.18	-29.50	1 26 31.13	....	349 52 12.52	47.590 .430		10.5 +48 58 27.5	....
37	B. D. +49° 414	9	28 55.52	-0.19	-29.50	1 28 25.83	-6.11	348 50 11.50	43.955 .845		11.6 +50 1 37.3	-34.7
38	B. D. +49° 416	9	30 41.66	0.19	29.50	1 30 11.97	6.14	348 44 11.68	47.450 .385	C	11.8 50 12 57.6	34.5
39	B. D. +49° 422	9	32 18.20	0.19	29.50	1 31 48.51	6.16	348 44 11.58	47.980 .895		11.7 50 6 21.8	34.3
40	B. D. +52° 399	9	33 49.69	0.22	29.50	1 33 19.97	6.35	346 26 11.38	46.060 .995		14.2 52 25 1.1	34.5
41	B. D. +45° 416	9	35 58.34	0.14	29.50	1 35 28.70	5.95	352 56 10.78	45.950 .875		7.3 45 54 57.1	33.3
42	B. D. +52° 420	9	37 53.43	-0.22	-29.50	1 37 23.71	-6.41	346 28 11.12	44.630 .595		14.2 +52 23 28.5	-34.1

Time.

Barom.

Att.
Ther.Ex.
Ther.

Telescope micrometer bisections are made at III and V, except as noted below.

No.

Eq. Points.

d	h	m	in.	°	°							
30	1	50	29.90	37.8	38.2	22, 35.						
	2	22	29.895	38.2	38.5	23, 24.						
	2	47	29.90	37.9	38.1	26, 37.						
	3	25	29.90	37.5	37.7	27, 28, 29, 30, 31, 32, 33, 34, 36.						
5	0	38	29.76	40.7	39.7							
	1	20	29.77	39.6	39.1							
Note. Dec. 5. Stars steady, but slightly diffuse. Too much moonlight for faint stars.												
Adopted Equator Point. I-30 { 1 ^h .030 38° 56' 11 ^m .05												
31-42 { 3.168 11.98												
31-42 { 1.030 10.48												
31-42 { 3.168 11.60												
27												
28												
29												
30												
31												
32												
33												
34												

1903PUSNO...3B...1K

CLAMP EAST.

HAMMOND, ASSISTANT.

1903PUSNO...3B...1K1903PUSNO...3B...1K

NO.	NAME.	THDS.	MEAN THREAD.	INST. COR.	CLOCK COR.	APPARENT R. A.	RED. TO 1900. 0	CIRCLE READING.	MICROMETER READINGS.	REFR.	APPARENT DECL.	RED. TO 1900. 0
			m s	s	s	h m s	s	° ' "	r r	"	° ' "	"
1	Eros.....	11	27 7.88	-0.10	-30.05	1 26 37.73	....	350 16 11.55	36.935 .875 .920 .810	10.3	+48 37 52.0	....
2	B. D. +49° 418	9	31 32.63	-0.10	-30.05	1 31 2.48	-6.10	349 24 11.58	48.110 .105	11.1	+49 26 18.0	-34.4
3	B. D. +53° 355	9	33 41.73	0.16	30.05	1 33 11.52	6.43	345 14 11.38	42.485 .490	15.8	53 38 11.7	34.8
4	B. D. +53° 363	9	34 28.19	0.15	30.04	1 33 58.00	6.42	345 28 12.15	48.520 .470	15.5	53 22 14.4	34.7
5	B. D. +53° 375	9	38 2.30	0.16	30.04	1 37 32.10	6.48	345 28 12.10	42.850 .765	B 15.6	53 27 16.7	34.4
6	B. D. +52° 433	9	40 20.18	0.15	30.04	1 39 49.99	6.49	345 44 11.70	46.350 .325	15.2	53 6 56.9	34.0
7	B. D. +53° 386	9	41 51.70	-0.16	-30.04	1 41 21.50	-6.55	345 26 12.32	47.970 .925	C 15.6	+53 30 51.5	-33.9
8	B. D. +53° 388	9	42 12.05	-0.16	-30.04	1 41 41.85	-6.54	345 26 12.45	49.270 .155	15.5	+53 23 58.5	-33.9
9	B. D. +53° 395	9	43 47.88	0.16	30.04	1 43 17.68	6.57	345 26 12.62	44.235 .025	15.5	53 25 35.8	33.7
10	B. D. +53° 398	6	44 37.56	0.15	30.04	1 44 7.37	6.57	345 34 12.15	41.085 .020	A 15.3	53 15 19.7	33.6
11	B. D. +53° 402	5	45 48.60	0.16	30.04	1 45 18.40	6.60	345 34 12.35	37.680 .580	B 15.5	53 22 53.1	33.5
12	B. D. +53° 416	9	48 44.34	0.16	30.04	1 48 14.14	6.64	345 26 12.70	47.595 .515	15.5	53 24 31.9	33.2
13	B. D. +53° 437	9	55 59.73	-0.16	-30.04	1 55 29.53	-6.76	345 18 11.85	47.550 .476	15.7	+53 32 33.8	-32.3
14	B. D. +53° 485	9	8 35.55	-0.16	-30.03	2 8 5.36	-6.95	345 16 11.12	46.270 .195	15.7	+53 34 59.1	-30.8
15	B. D. +53° 501	9	12 43.62	0.17	30.03	2 12 13.42	7.01	345 12 12.35	47.680 .605	15.8	53 38 30.9	30.3
16	B. D. +53° 525	9	20 7.57	0.17	30.03	2 19 37.37	7.12	345 10 10.85	46.470 .355	15.8	53 40 56.0	29.3
17	B. D. +52° 585	9	22 32.14	0.16	30.02	2 22 1.96	7.09	345 46 11.95	42.740 .665	15.2	53 6 5.4	28.9
18	B. D. +40° 567	9	34 48.74	-0.02	-30.02	2 34 18.70	-6.28	357 58 11.52	43.690 .565	1.1	+40 53 34.0	-25.8
19	B. D. +40° 570	9	36 14.78	0.02	-30.02	2 35 44.74	-6.30	357 58 11.42	48.725 .645	C 2.1	+40 58 24.1	-25.6
20	B. D. +42° 614	9	37 42.73	0.04	30.02	2 37 12.67	6.45	355 44 10.48	45.105 .040	4.4	43 7 10.7	25.7
21	B. D. +44° 569	9	38 48.72	0.07	30.02	2 38 18.63	6.60	353 40 10.65	45.700 .640	6.6	45 11 1.3	25.8
22	B. D. +44° 573	9	40 21.13	0.06	30.02	2 39 51.05	6.61	353 48 10.30	48.365 .295	6.4	45 2 10.4	25.6
23	B. D. +44° 577	9	41 37.47	-0.06	-30.02	2 41 7.39	-6.60	354 0 10.72	45.210 .130	6.2	+44 51 10.4	-25.4
24	B. D. +46° 641	9	43 5.17	-0.08	-30.02	2 42 35.07	6.77	352 2 11.32	47.400 .310	8.3	+46 48 29.9	-25.4
25	B. D. +43° 583	9	44 3.04	0.05	30.02	2 43 32.97	6.53	355 26 11.22	47.815 .775	4.7	43 24 18.0	24.9
26	B. D. +43° 593	9	46 29.54	0.05	30.01	2 45 59.48	6.54	355 26 10.95	44.470 .460	A 4.7	43 22 7.4	24.6
27	B. D. +46° 652	9	47 53.59	0.08	30.01	2 47 23.50	6.81	352 2 11.30	46.540 .430	A 8.3	46 45 31.9	24.8
28	B. D. +46° 656	9	49 25.50	-0.09	-30.01	2 48 55.40	-6.84	352 2 11.58	49.445 .385	C 8.4	+46 54 16.2	-24.5
29	γ Persei.....	11	58 10.72	-0.17	-30.00	2 57 .....	....	345 44 11.75	45.255 .155 .260 .065	15.2	+53 7 .....	....
30	β Persei.....	11	2 16.12	0.02	30.04	3 1 .....	....	358 16 10.92	46.790 .670 .765 .590	1.7	40 34 .....	....
31	α Persei.....	11	17 48.25	0.12	29.99	3 17 .....	....	349 20 11.30	47.035 .890 .015 .825	11.2	49 30 .....	....
32	2 H. Camelop.	11	21 37.03	0.28	29.99	3 21 .....	....	339 16 11.42	43.905 .805 .890 .735	22.7	+59 35 .....	....

KING, OBSERVER.

1900 DECEMBER 10.

CLAMP EAST.

HAMMOND, ASSISTANT.

33	α Cassiopeiae	11	39 46.57	-0.04	-32.34	0 39 .....	....	351 6 11.68	46.200 .195 .000	9.4	+47 44 .....	....
34	γ Cassiopeiae	11	51 18.88	0.23	32.43	0 50 .....	....	338 40 11.48	45.935 .810 .910 .705	23.6	60 11 .....	....
35	ξ Andromedae	11	17 4.97	0.01	32.34	1 16 .....	....	353 50 10.42	46.105 .935 .090 .860	6.5	45 0 .....	....
36	δ Cassiopeiae	11	19 55.58	-0.22	-32.46	1 19 .....	....	339 8 11.62	44.740 .560 .715 .490	23.1	+59 43 .....	....
37	B. D. +46° 370	9	24 44.26	-0.03	-32.40	1 24 11.83	-5.78	352 22 11.02	42.410 .340	8.1	+46 30 3.8	-35.0
38	Eros.....	11	28 39.26	-0.04	-32.40	1 28 6.82	....	351 44 10.60	45.090 .065 .120 .895	8.8	+47 7 13.2	....
39	B. D. +46° 393	6	30 37.63	-0.03	-32.40	1 30 5.20	-5.86	352 22 10.25	41.585	C 8.2	+46 36 46.3	-34.5

Time.

Barom.

Att.
Ther.Ex.
Ther.

Telescope micrometer bisections are made at III and V, except as noted below.

No.

Eq. Points.

d h m	in.	°	°			
6 1 50	30.00	35.6	35.3	1, 29, 30, 31, 32, 33, 34, 35, 36, 38.	Bisections at I, II, VI, VII.	29 38 56 11.3
2 25	30.00	35.1	35.0	3, 6, 7.	Bisections at I, III.	30 10.9
2 50	30.00	35.0	34.8	8, 9.	Bisections at V, VII.	31 10.5
3 22	30.01	35.0	34.6	10, 11.	Bisections at VI, VII.	32 11.5
10 0 38	30.01	31.5	29.9	39.	Bisection at III.	33 9.3
1 20	30.005	30.6	29.5			34 8.7
				Note. Dec. 10. Good seeing.		35 8.7
						36 9.1
Adopted Equator Point.... 1-32 38° 56' 10".89						
33-39 { 1 ^h .032 8 .95						
3 { .168 9 .68						

1903PUSNO....3B....1K

NO.	NAME.	THDS.	MEAN THREAD.	INST. COR.	CLOCK COR.	APPARENT R. A.	RED. TO 1900.0	CIRCLE READING.	MICROMETER READINGS.	REFR.	APPARENT DECL.	RED. TO 1900.0
			m s	s	s	h m s	s	° ' "	r r		° ' "	"
1	B. D. +46° 404	6	31 51.32	-0.03	-32.40	1 31 18.89	-5.87	352 22 10.32	42.165 .015	A	8.0 46 26 53.2	-34.4
2	B. D. +43° 341	10	33 48.48	0.00	32.40	1 33 16.08	-5.75	355 18 11.00	48.110 .095		4.9 43 32 8.6	33.6
3	B. D. +41° 329	9	36 54.85	+0.02	32.40	1 36 22.47	-5.69	357 24 10.62	48.655 .560		2.7 41 25 59.2	32.9
4	B. D. +41° 342	9	41 49.50	0.02	32.40	1 41 17.12	-5.76	357 8 10.75	48.030 .940		3.0 41 42 11.4	32.5
5	B. D. +41° 353	9	43 52.48	0.02	32.40	1 43 20.10	-5.77	357 28 9.90	43.665 .610	C	2.7 41 30 1.3	32.2
6	B. D. +41° 362	9	47 21.34	+0.02	-32.40	1 46 48.96	-5.80	357 28 10.02	40.380 .310	A	2.6 41 21 23.5	-31.8
7	B. D. +41° 374	9	51 6.61	+0.02	-32.41	1 50 34.22	-5.85	357 32 10.10	47.915 .790	C	2.6 41 24 40.2	-31.5
8	B. D. +41° 377	9	51 47.94	0.02	32.41	1 51 15.55	-5.85	357 32 10.45	51.190 .110		2.5 41 17 10.2	31.4
9	B. D. +40° 415	9	54 17.48	0.03	32.41	1 53 45.10	-5.86	357 58 10.78	47.370 .260		2.1 40 52 23.5	31.0
10	B. D. +40° 421	9	55 19.56	0.03	32.41	1 54 47.18	-5.87	357 58 11.08	45.105 .010		2.1 40 53 6.5	30.9
11	B. D. +39° 464	9	0 21.54	+0.04	-32.41	1 59 49.17	-5.84	359 34 10.08	44.270 .225		0.4 39 17 22.4	-30.1
12	B. D. +38° 408	9	1 0.77	+0.05	-32.41	2 0 28.41	-5.81	0 26 10.45	42.870 .725		0.5 38 25 47.8	-29.8
13	B. D. +37° 486	9	3 5.21	+0.06	32.41	2 2 32.86	-5.78	1 28 11.15	43.440 .325		1.6 37 23 34.8	29.4
14	B. D. +55° 551	9	8 45.99	-0.14	32.41	2 8 13.44	-7.08	343 40 10.62	46.625	C	17.9 55 17 19.1	31.6
15	B. D. +54° 500	9	9 14.15	0.14	32.41	2 8 41.60	-7.07	343 40 10.70	44.780 .705	A	17.7 55 8 13.7	31.6
16	B. D. +50° 599	9	34 13.81	-0.08	-32.42	2 33 41.31	-7.03	347 40 11.55	42.545 .520		13.2 51 12 6.7	-27.8
17	B. D. +50° 601	7	34 22.20	-0.08	-32.42	2 33 49.70	-7.03	347 40 11.72	42.665 .540		13.2 51 12 3.0	-27.8
18	B. D. +36° 609	9	36 16.56	+0.04	32.42	2 35 44.18	-6.23	358 46 11.08	44.985 .900		1.2 40 5 8.3	25.9
19	B. D. +42° 613	9	37 43.72	0.01	32.42	2 37 11.31	-6.41	356 4 10.95	44.545 .515		4.1 42 47 20.0	26.2
20	B. D. +40° 582	9	38 34.89	0.03	32.42	2 38 2.50	-6.29	358 10 10.15	44.320 .215		1.9 40 41 22.5	25.7
21	B. D. +40° 589	9	40 7.55	+0.03	-32.42	2 39 35.16	-6.29	358 20 10.92	49.190 .070		1.7 40 29 48.3	-25.5
22	B. D. +42° 628	9	41 31.99	+0.01	-32.42	2 40 59.58	-6.46	355 52 11.42	44.330 .250		4.3 42 59 23.2	-25.7
23	B. D. +40° 602	9	42 43.04	0.03	32.42	2 42 10.65	-6.32	358 24 9.55	43.450 .400	C	1.7 40 34 5.1	25.2
24	B. D. +40° 610	9	44 30.36	+0.03	32.42	2 43 57.97	-6.33	358 24 10.00	42.570 .485	A	1.6 40 24 41.0	24.9
25	B. D. +48° 782	9	46 18.32	-0.06	32.42	2 45 45.84	-6.98	349 44 10.35	49.660 .620		10.9 49 5 49.4	25.9
26	B. D. +42° 643	9	46 45.23	+0.01	-32.42	2 46 12.82	-6.47	356 28 10.82	48.965 .860		3.7 42 21 54.7	-24.9
27	γ Persei	11	58 13.07	-0.11	-32.42	2 57 .....	....	345 44 11.10	45.190 .080		15.4 53 7 .....	....
28	β Persei	11	2 18.44	+0.03	32.42	3 1 .....	....	358 16 10.90	46.705 .545		1.8 40 34 .....	....
29	α Persei	11	17 50.59	-0.06	32.40	3 17 .....	....	349 20 10.98	46.975 .795		11.4 49 30 .....	....
30	2 H. Camelop.	11	21 39.44	-0.22	-32.47	3 21 .....	....	339 16 11.48	43.820 .660		23.0 59 35 .....	....

1900 DECEMBER 11.

CLAMP EAST.

HAMMOND, ASSISTANT.

KING, OBSERVER.

NO.	NAME.	THDS.	MEAN THREAD.	INST. COR.	CLOCK COR.	APPARENT R. A.	RED. TO 1900.0	CIRCLE READING.	MICROMETER READINGS.	REFR.	APPARENT DECL.	RED. TO 1900.0
31	α Cassiopeiae	10	39 47.22	-0.06	-32.98	0 39 .....	....	351 6 11.15	46.230 .050		9.4 47 44 .....	....
32	γ Cassiopeiae	11	51 19.48	0.27	33.02	0 50 .....	....	338 40 11.85	45.950 .975		23.5 60 11 .....	....
33	ξ Andromedae	11	17 5.58	0.03	32.95	1 16 .....	....	353 50 10.30	46.105 .940		6.5 45 0 .....	....
34	δ Cassiopeiae	11	19 56.07	-0.26	-32.94	1 19 .....	....	339 8 11.72	44.790 .090		23.0 59 43 .....	....
35	B. D. +49° 400	8	25 17.65	-0.09	-32.97	1 24 44.59	-5.97	348 46 11.78	41.255 .730		12.0 50 6 31.4	-35.8
36	B. D. +48° 454	7	26 5.00	0.07	32.97	1 25 31.96	-5.90	350 20 10.88	42.585 .460		10.3 48 32 3.3	35.4
37	B. D. +48° 463	9	27 55.25	0.07	32.97	1 27 22.21	-5.92	350 20 10.78	46.110 .070		10.2 48 30 55.1	35.2
38	Eros	11	29 18.37	0.05	32.97	1 28 45.35	....	352 8 11.82	43.330 .285		8.3 46 43 45.3	....
39	B. D. +51° 339	5	31 3.66	-0.12	-32.97	1 30 30.57	-6.14	347 36 10.62	46.515 .410		13.2 51 14 51.2	-35.4

Time.	Barom.	Att. Ther.	Ex. Ther.	Telescope micrometer bisections are made at III and V, except as noted below.			No.	Eq. Points.	
d h m	in.	°	°					° ' "	
IO 1 50	30.00	30.0	29.0	1.	Bisections at V, VII.			27	38 56 9.8
2 25	29.99	29.5	29.1	2.	Bisections at VI, VII.			28	9.5
2 48	29.985	29.0	28.9	8, 36.	Bisections at IV, V.			29	9.4
3 24	29.98	28.4	28.0	11, 16, 19, 25, 35.	Bisections at I, III.			30	10.0
II 0 38	29.87	30.0	29.9	14.	Bisection at III.			31	8.8
1 20	29.88	29.8	29.4	17.	Bisections at V, VI.			32	9.6
1 49	29.89	29.5	28.9	27, 28, 29, 30, 31, 33, 34.	Bisections at I, II, VI, VII.			33	8.9
				32.	Bisections at I, II.			34	10.2
				38.	Bisections at II, VI.				
Note.									
Dec. 11. Very poor seeing. Stopped by clouds.									
Adopted Equator Point.... 1-30							{ 1 ^h .032	38° 56' 8 ^{''} .95	
							{ 3 .168	9 .68	
31-39								9 .38	

KING, OBSERVER.										CLAMP EAST.										HAMMOND, ASSISTANT.									
1900 DECEMBER 12.																													
NO.	NAME.	THDS.	MEAN THREAD.	INST. COR.	CLOCK COR.	APPARENT R. A.	RED. TO 1900.0	CIRCLE READING.	MICROMETER READINGS.	REFR.	APPARENT DECL.	RED. TO 1900.0																	
			m s	s	s	h m s	s	° ' "	r r		° ' "																		
1	α Cassiopeiae.....	11	39 47.94	+0.03	-33.81	0 39 .....	....	351 6 11.88	46.135 .975		9.4 +47 44 ....	....																	
2	γ Cassiopeiae.....	11	51 20.25	-0.15	33.94	0 50 .....	....	338 40 11.50	45.910 .770	23.4	60 11 ....	....																	
3	ξ Andromedae.....	11	17 6.38	-0.06	33.86	1 16 .....	....	353 50 10.60	46.000 .875	6.4	45 0 ....	....																	
4	δ Cassiopeiae.....	11	19 56.86	-0.14	-33.87	1 19 .....	....	339 8 11.48	45.995 .810	22.8	+59 43 ....	....																	
5	B. D. +47° 429	9	25 13.13	-0.03	-33.88	1 24 39.28	-5.80	351 28 12.52	44.305 .190	9.0	+47 23 26.7	-35.4																	
6	B. D. +50° 299	9	27 2.59	0.00	33.88	1 26 28.71	6.00	348 32 12.30	45.305 .275	12.1	50 19 11.1	35.7																	
7	B. D. +44° 326	9	29 17.44	0.06	33.88	1 28 43.62	5.74	353 46 10.48	44.020 .990	6.5	45 5 32.0	34.5																	
8	Eros.....	11	30 4.06	0.04	33.88	1 29 30.22	....	352 30 10.35	48.935	7.8	46 19 57.9	....																	
9	B. D. +47° 462	9	31 12.79	0.03	33.88	1 30 38.94	5.90	351 16 12.28	47.770 .720	9.1	47 34 20.0	34.8																	
10	B. D. +45° 394	9	32 4.94	-0.06	-33.88	1 31 31.12	-5.80	353 24 10.10	44.295 .265	6.9	+45 27 26.1	-34.3																	
11	B. D. +43° 337	9	33 19.44	-0.07	-33.88	1 32 45.63	-5.72	355 12 11.20	46. ... .340	5.0	+43 38 43.3	-33.9																	
12	B. D. +51° 363	6	34 42.76	-0.01	33.88	1 34 8.87	6.19	347 30 11.40	42.640	11.5	51 22 1.9	35.2																	
13	B. D. +45° 422	9	37 3.75	-0.05	33.89	1 36 29.91	5.87	353 24 11.55	47.780 .800	7.0	45 32 44.6	34.2																	
14	B. D. +45° 424	7	37 44.08	0.06	33.89	1 37 10.25	5.87	353 24 11.65	46. ... .320	6.9	45 26 45.1	33.8																	
15	B. D. +40° 364	9	41 16.63	-0.10	33.89	1 40 42.84	5.70	357 48 10.52	43.480 .415	2.2	41 3 37.3	32.6																	
16	B. D. +54° 392	9	45 22.97	-0.06	-33.89	1 44 49.02	-6.64	343 56 11.98	45.535 .470	17.2	+54 55 12.3	-34.6																	
17	B. D. +40° 360	9	47 28.72	0.10	-33.89	1 46 54.93	-5.77	357 50 11.20	48. ... .435	2.2	+41 0 0.3	-31.9																	
18	B. D. +40° 401	6	49 18.78	-0.10	33.89	1 48 44.99	5.79	357 42 9.95	43.920 .760	2.3	41 9 30.5	31.8																	
19	B. D. +53° 428	9	52 17.18	-0.05	33.89	1 51 43.24	6.68	344 44 11.75	43.705 .620	16.3	54 7 46.0	33.7																	
20	B. D. +39° 450	9	55 8.33	-0.11	33.89	1 54 34.55	5.78	359 22 11.40	43.915	0.6	39 29 26.6	30.8																	
21	B. D. +53° 439	9	56 19.06	-0.05	33.89	1 55 45.12	6.73	344 50 10.42	46.790 .680	16.2	54 0 48.3	33.3																	
22	B. D. +39° 457	9	58 24.92	+0.11	-33.89	1 57 51.14	-5.82	359 16 11.12	45.255 .130	0.7	+39 35 1.7	-30.5																	
23	B. D. +38° 402	7	59 23.03	+0.12	-33.89	1 58 49.26	-5.80	359 52 10.90	48.970 .905	0.0	+38 57 49.4	-30.3																	
24	B. D. +53° 451	9	0 43.87	-0.04	33.90	2 0 9.93	6.78	345 0 11.55	48.120 .005	16.0	53 50 21.5	32.7																	
25	B. D. +38° 416	9	3 28.78	-0.12	33.90	2 2 55.00	5.84	359 58 10.58	45.535	0.0	38 52 55.7	29.8																	
26	B. D. +53° 459	9	4 1.73	-0.04	33.90	2 3 27.79	6.84	345 0 11.70	42.950 .845	16.0	53 52 0.4	32.4																	
27	B. D. +53° 474	9	7 7.02	0.04	33.90	2 6 33.08	6.88	345 6 11.38	44.580 .495	15.9	53 45 29.2	31.9																	
28	B. D. +53° 497	9	12 15.75	-0.04	33.90	2 11 41.81	-6.96	345 6 11.40	42.025 .910	16.0	+53 49 31.7	-31.3																	
29	B. D. +53° 513	9	15 35.62	-0.04	33.90	2 15 1.68	-7.01	345 6 11.28	46.875 .810	15.9	+53 47 58.2	-30.9																	
30	B. D. +53° 519	9	18 1.21	0.04	33.90	2 17 27.27	7.04	345 6 11.42	47.120 .025	15.9	53 44 40.6	30.6																	
31	B. D. +53° 539	9	26 11.35	0.04	33.91	2 25 37.40	7.16	344 58 11.82	47.650 .605	16.0	53 52 29.6	29.5																	
32	B. D. +53° 547	9	29 15.88	-0.04	33.91	2 28 41.93	7.21	344 58 12.08	45.470 .355	16.0	53 53 11.8	29.1																	
33	B. D. +37° 589	9	32 49.91	-0.13	33.91	2 32 16.13	6.05	1 20 10.22	43.380 .315	1.5	37 31 35.8	26.1																	
34	B. D. +37° 596	...	...	...	...	2 35	...	1 2 11.18	46.210	1.2	37 48 41.8	25.9																	
35	B. D. +41° 517	9	36 27.63	0.09	-33.91	2 35 53.81	-6.32	357 6 11.42	44.530 .380	3.0	+41 45 17.9	-26.4																	
36	η Persei.....	11	44 5.51	-0.07	-33.90	2 43 .....	....	343 22 11.70	45.315 .135	17.8	55 29 ....	....																	
37	τ Persei.....	11	47 51.13	0.02	33.97	2 47 .....	....	346 30 11.98	44.030 .855	14.3	52 21 ....	....																	
38	γ Persei.....	11	58 14.46	-0.04	33.90	2 57 .....	....	345 44 11.08	45.150 .000	15.2	53 7 ....	....																	
39	β Persei.....	11	2 19.85	0.10	-33.90	3 1 .....	....	358 16 11.28	46.620 .445	1.7	+40 34 ....	....																	

1900 DECEMBER 13. CLAMP EAST.												
KING, OBSERVER.					HAMMOND, ASSISTANT.							
NO.	NAME.	THDS.	MEAN THREAD.	INST. COR.	CLOCK COR.	APPARENT R. A.	RED. TO 1900.0	CIRCLE READING.	MICROMETER READINGS.	REFR.	APPARENT DECL.	RED. TO 1900.0
1	α Cassiopeiae.....	11	m s 39 48.80	s -0.18	s -34.48	h m s 0 39	s	° ' " 351 6 12.35	r 46.180 .160 .990	" 8.9	° ' " +47 44	"
2	γ Cassiopeiae.....	11	51 20.92	0.38	34.40	0 50 .....	....	338 40 11.82	45.940 .820 .915 .750	22.4	60 11 ....	....
3	ξ Andromedæ.....	11	17 7.10	0.12	34.42	1 16 .....	....	353 50 9.28	46.240 .200 .995	6.2	45 0 ....	....
4	δ Cassiopeiae.....	9	19 57.71	-0.33	-34.55	1 19 .....	....	339 8 12.15	44.710 .530 .695 .475	22.0	+59 43 ....	....
5	B. D.+46° 373	9	25 28.42	-0.13	-34.49	1 24 53.80	-5.77	351 48 11.02	43.765 .665	8.3	+47 3 39.7	-35.4
6	B. D.+50° 301	9	27 40.80	0.17	34.50	1 27 6.13	6.00	348 28 12.15	47.155 .070	11.7	50 22 36.9	35.8
7	B. D.+45° 376	8	28 40.91	0.11	34.50	1 28 6.30	5.74	353 30 10.18	42.815 .775	C 6.6	45 28 21.5	34.8
8	B. D.+45° 383	9	29 56.34	-0.11	-34.50	1 29 21.73	-5.75	353 30 10.32	40.050 .015	A 6.5	+45 19 34.5	-34.6
9	Eros.....	11	30 55.64	-0.12	-34.50	1 30 21.02	....	352 56 10.98	42.890 .865	7.1	+45 55 54.7	....
10	B. D.+44° 337	9	33 1.00	0.10	34.50	1 32 26.40	-5.78	353 42 10.62	43.065 .975	6.3	45 9 51.5	-34.3
11	B. D.+43° 343	9	34 1.39	0.09	34.50	1 33 26.80	5.73	354 58 10.58	45.010 .930	5.0	43 53 12.8	33.9
12	B. D.+44° 352	9	36 31.33	0.10	34.51	1 35 56.72	5.82	353 46 10.15	46.225 .135	6.2	45 4 51.3	33.9
13	B. D.+44° 354	9	37 51.63	-0.10	-34.51	1 37 17.02	-5.83	354 2 10.15	43.765 .630	6.0	+44 49 38.7	-33.8
14	B. D.+41° 347	9	42 25.43	-0.06	-34.52	1 41 50.85	-5.74	356 54 11.10	48.845 .750	3.0	+41 55 56.9	-32.7
15	B. D.+40° 384	9	46 17.72	0.05	34.52	1 45 43.15	5.74	357 52 10.95	48.405 .305	2.1	40 58 4.7	32.1
16	B. D.+40° 400	9	49 7.81	0.04	34.52	1 48 33.25	5.75	358 32 10.72	48.755 .625	1.5	40 24 23.8	31.7
17	B. D.+40° 406	9	51 54.36	0.04	34.53	1 51 19.79	5.77	358 32 10.82	42.075 .980	A 1.4	40 16 50.7	31.4
18	B. D.+40° 412	9	53 1.16	-0.04	-34.53	1 52 26.59	-5.79	358 32 10.65	43.415 .340	C 1.5	+40 26 5.8	-31.3
19	B. D.+37° 452	9	54 58.89	-0.01	-34.53	1 54 24.35	-5.71	0 46 11.12	48.375 .265	B 0.8	+38 7 15.4	-30.6
20	B. D.+37° 465	9	57 18.50	0.02	34.54	1 56 43.94	5.73	0 46 11.02	47.890 .835	0.9	38 4 12.2	30.4
21	B. D.+37° 468	9	57 46.67	0.02	34.54	1 57 12.11	5.74	0 46 11.10	48.630 .540	C 0.8	38 10 23.2	30.4
22	B. D.+37° 488	9	3 34.78	-0.01	-34.54	2 3 0.23	-5.79	0 46 11.10	49.020 .940	0.9	+38 3 49.5	-29.7
23	δ Persei.....	10	7 38.45	-0.14	-34.61	2 7 .....	....	348 16 11.18	41.050 .035 .785	12.0	+50 36 ....	....
24	B. D.+37° 596	9	35 34.94	+0.02	-34.59	2 35 0.37	-6.09	1 2 9.72	46.450 .345	1.1	+37 48 40.2	-25.9
25	B. D.+40° 581	8	38 33.88	0.00	34.59	2 37 59.29	6.26	358 36 10.65	43.585 .605	1.5	40 22 1.6	26.0
26	B. D.+39° 628	9	40 18.90	0.00	34.59	2 39 44.31	6.26	358 36 10.62	45.155 .055	A 1.3	40 11 53.0	25.8
27	B. D.+41° 538	9	41 23.67	-0.01	-34.59	2 40 49.07	-6.37	357 6 10.05	43.230 .235	2.9	+41 45 45.7	-25.9
28	B. D.+41° 541	9	42 7.37	-0.01	-34.60	2 41 32.76	6.36	357 24 10.62	44.520 .510	2.6	+41 27 19.1	-25.7
29	B. D.+41° 543	9	42 53.64	0.01	34.60	2 42 19.03	6.40	356 50 10.40	47.965 .915	3.1	42 0 14.2	25.7
30	B. D.+41° 550	9	44 48.45	0.01	34.60	2 44 13.84	6.38	357 18 11.28	47.895 .800	2.6	41 32 14.6	25.4
31	B. D.+41° 556	9	46 35.82	-0.01	-34.60	2 46 1.21	-6.41	357 18 11.35	43.140 .035	B 2.7	+41 36 59.0	-25.2
32	τ Persei.....	11	47 51.88	-0.12	-34.62	2 47 .....	....	346 30 11.58	43. .... .860	13.9	+52 21 ....	....
33	γ Persei.....	11	58 15.22	-0.12	34.58	2 57 .....	....	345 44 11.52	45.200 .035 .215 .965	14.7	53 7 ....	....
34	β Persei.....	11	2 20.62	+0.01	-34.58	3 1 .....	....	358 16 10.58	46.735 .550 .720 .490	1.7	+40 34 ....	....

1900 DECEMBER 14. CLAMP EAST.												
KING, OBSERVER.					HAMMOND, ASSISTANT.							
35	α Cassiopeiae.....	11	39 49.37	-0.03	-35.22	0 39 .....	....	351 6 11.95	46.180 .190 .950	9.6	+47 44 ....	....
36	γ Cassiopeiae.....	10	51 21.50	-0.19	35.20	0 50 .....	....	338 40 10.62	46.035 .030 .805	24.0	60 11 ....	....
37	ξ Andromedæ.....	11	17 7.66	0.00	-35.12	1 16 .....	....	353 50 10.82	46.065 .060 .870	6.6	+45 0 ....	....

Time.	Barom.	Att. Ther.	Ex. Ther.	Telescope micrometer bisections are made at III and V, except as noted below.		No.	Eq. Points.
d h m	in.	°	°				° ' "
13 0 37	29.65	48.5	50.0	1, 2, 3, 4, 23, 33, 34, 35, 36, 37. 20, 26, 27. 32.	Bisections at I, II, VI, VII. Bisections at I, III. Bisections at VI, VII.	1	38 56 10.3
1 23	29.67	47.0	48.5			2	11.0
1 50	29.675	46.5	47.7			3	10.6
2 23	29.68	46.0	47.5			4	10.7
2 49	29.69	45.7	46.9			23	10.8
3 2	29.69	45.5	46.8			32	10.3
14 0 38	30.05	27.0	24.3			33	11.2
				Notes.		34	9.9
				Dec. 13. Seeing fair. Stars somewhat unsteady and diffuse.		35	9.1
				14. Seeing very good.		36	9.9
				Adopted Equator Point. 1-34 38° 56' 10".60		37	8.9

Notes.
Dec. 13. Seeing fair. Stars somewhat unsteady and diffuse.
14. Seeing very good.

Adopted Equator Point..... I-34 38° 56' 10".60

NO.	NAME.	THDS.	MEAN THREAD.	INST. COR.	CLOCK COR.	APPARENT R. A.	RED. TO 1900.0	CIRCLE READING.	MICROMETER READINGS.		REFR.	APPARENT DECL.	RED. TO 1900.0
			m s	s	s	h m s	s	° ' "	r	r		° ' "	"
1	δ Cassiopeiae.....	11	19 58.12	-0.18	-35.13	1 19 .....	....	339 8 11.48	44.700 .715	.600 .520	23.4	+59 43 ....	....
2	B. D. +48° 455	9	26 7.37	-0.03	-35.17	1 25 32.17	-5.84	350 34 10.88	46.200 .125	.125	10.2	+48 16 53.7	-35.6
3	B. D. +48° 470	9	29 1.53	0.04	35.17	1 28 26.32	5.92	349 48 10.58	43.910 .870	.870	11.0	49 3 39.4	35.5
4	B. D. +44° 329	8	30 1.32	0.00	35.17	1 29 26.15	5.69	354 26 10.68	44.350 .285	.285	5.9	44 25 26.0	34.5
5	B. D. +47° 460	9	31 1.46	-0.03	35.17	1 30 26.26	5.90	350 38 10.02	44.965 .980	.980	10.1	48 13 18.2	35.2
6	Eros.....	11	31 53.18	0.00	35.17	1 31 18.01	....	353 20 9.65	43.840 .770	.770	7.1	45 31 37.0	....
7	B. D. +43° 337	10	33 20.61	+0.01	-35.17	1 32 45.45	-5.70	355 12 9.95	46.580 .570	.570	5.1	+43 38 42.5	-34.0
8	B. D. +41° 321	9	34 22.27	+0.02	-35.17	1 33 47.12	-5.64	356 36 9.45	47.475 .390	.390	3.6	+42 14 24.2	-33.6
9	B. D. +42° 351	9	36 38.85	0.02	35.17	1 36 3.70	5.68	356 26 9.88	44.540 .525	.525	A 3.7	42 22 5.9	33.4
10	B. D. +42° 354	9	36 56.85	0.02	35.17	1 36 21.70	5.69	356 26 10.02	45.265 .170	.170	C 3.9	42 31 30.8	33.4
11	B. D. +42° 360	9	38 46.30	0.02	35.17	1 38 11.15	5.72	356 12 10.38	47.575 .525	.525	C 4.1	42 44 47.4	33.3
12	B. D. +42° 373	9	42 6.24	0.02	35.17	1 41 31.09	5.76	356 12 10.35	46.670 ....	....	A 3.9	42 35 24.2	33.0
13	B. D. +42° 375	9	42 36.69	+0.02	-35.17	1 42 1.54	-5.77	356 12 10.45	42.215 .170	.170	B 4.1	+42 43 17.2	-32.9
14	B. D. +41° 352	8	43 36.47	+0.02	-35.17	1 43 1.32	-5.76	356 38 9.78	45.200 .050	.050	3.5	+42 13 6.3	-32.7
15	B. D. +42° 390	9	46 2.79	0.02	35.17	1 45 27.64	5.79	356 38 9.80	44.230 .145	.145	B 3.6	42 16 39.1	32.5
16	B. D. +41° 364	9	47 51.17	0.03	35.17	1 47 16.03	5.80	356 48 9.65	46.155 .090	.090	3.4	42 2 48.9	32.3
17	B. D. +39° 431	9	49 18.43	0.04	35.17	1 48 43.30	5.73	358 40 9.15	47.435 .380	.380	1.3	40 10 22.6	31.8
18	B. D. +38° 392	9	55 27.74	0.05	35.17	1 54 52.62	5.75	359 42 9.72	45.400 .370	.370	0.2	39 9 0.9	30.9
19	B. D. +38° 391	9	55 29.44	+0.05	-35.17	1 54 54.32	-5.75	359 42 9.60	48.870 .765	.765	1.2	+39 7 52.4	-30.9
20	B. D. +53° 521	9	18 11.07	-0.09	-35.17	2 17 35.81	-6.97	345 32 10.52	43.980 .940	.940	15.9	+53 19 41.9	-30.8
21	B. D. +52° 587	9	23 34.74	0.08	35.17	2 22 59.49	6.98	346 14 10.45	45.020 .930	.930	15.1	52 37 21.7	30.0
22	B. D. +51° 587	9	25 39.86	0.07	35.17	2 25 4.62	6.94	346 58 11.45	48.305 .245	.245	14.2	51 52 16.6	29.6
23	B. D. +51° 594	9	28 21.99	0.07	35.17	2 27 46.75	6.95	347 18 10.30	47.870 .765	.765	13.8	51 32 26.1	29.2
24	B. D. +51° 599	9	30 38.04	0.07	35.17	2 30 2.80	6.98	347 18 10.55	49.310 .240	.240	13.8	51 31 57.9	28.9
25	B. D. +51° 604	9	32 19.73	-0.07	-35.18	2 31 44.48	-7.01	347 18 10.58	47.085 .200	.200	C 14.0	+51 39 6.6	-28.7
26	B. D. +51° 618	9	36 21.12	-0.07	-35.18	2 35 45.87	-7.04	347 18 10.45	48.460 .395	.395	A 13.8	+51 28 59.5	-28.2
27	B. D. +49° 752	9	37 28.23	0.05	35.18	2 36 53.00	6.92	348 52 9.82	49.040 .015	.015	12.1	49 58 1.7	27.8
28	B. D. +50° 617	8	38 6.52	0.06	35.18	2 37 31.28	7.00	348 2 10.62	47.830 .760	.760	13.0	50 48 25.1	27.8
29	B. D. +51° 626	9	40 35.72	0.07	35.18	2 40 0.47	7.13	347 6 10.92	48.280 .230	.230	B 14.1	51 47 31.6	27.6
30	B. D. +51° 628	9	40 48.85	0.07	35.18	2 40 13.60	7.13	347 6 10.95	48.670 .560	.560	14.1	51 44 8.6	27.6
31	B. D. +49° 773	7	41 47.40	-0.05	-35.18	2 41 12.17	-6.95	349 14 10.38	46.560 .510	.510	B 11.7	+49 39 59.7	-27.2
32	B. D. +49° 782	9	43 41.19	-0.05	-35.18	2 43 5.96	-6.96	349 14 10.32	48.035 .990	.990	11.7	+49 36 20.2	-26.9
33	B. D. +45° 665	9	44 42.42	0.00	35.18	2 44 7.24	6.64	353 22 10.62	45.590 .550	.550	A 7.0	45 25 47.0	26.1
34	B. D. +45° 669	9	45 37.61	-0.01	35.18	2 45 2.42	6.66	353 22 10.50	47.500 .465	.465	7.2	45 34 51.7	26.0
35	B. D. +42° 650	9	49 8.44	+0.02	35.18	2 48 33.28	6.50	356 2 10.35	46.315 .300	.300	4.2	42 48 46.5	25.1
36	B. D. +45° 679	9	49 56.90	0.00	-35.18	2 49 21.72	-6.70	353 24 10.12	47.505 .445	.445	7.1	+45 26 26.2	-25.4
37	γ Persei.....	11	58 15 76	-0.09	-35.16	2 57 .....	....	345 44 10.90	45.195 .190	.040 .970	15.7	+53 7 ....	....
38	β Persei.....	11	2 21.17	+0.04	35.17	3 1 .....	....	358 16 10.52	46.670 .540	.540	1.8	40 34 ....	....
39	α Persei.....	11	17 53.37	-0.05	35.19	3 17 .....	....	349 20 10.50	46. ... .825	.825	11.6	49 30 ....	....
40	2 H. Camelop.....	10	21 42.10	-0.18	-35.19	3 21 .....	....	339 16 10.95	43.785 .645 790 .560	.645 .560	23.4	+59 35 ....	....

KING, OBSERVER.

1900 DECEMBER 19.

CLAMP EAST.

HAMMOND, ASSISTANT.

41	α Cassiopeiae.....	11	39 53.71	0.00	-39.69	0 39 .....	....	351 6 11.52	46.030 .020	.920 .845	9.0	+47 44 ....	....
42	γ Cassiopeiae.....	11	51 26.00	-0.15	-39.89	0 50 .....	....	338 40 11.58	45.730 710 .495	.565	22.5	+60 11 ....	....

Time.	Barom.	Att. Ther.	Ex. Ther.	Telescope micrometer bisections are made at III and V, except as noted below.		No.	Eq. Points.
d h m	in.	°	°				° ' "
14 1 19	30.05	25.8	23.5	1, 37, 38, 40, 41, 42.	Bisections at I, II, VI, VII.	1	38 56 9.4
1 51	30.055	25.0	23.0	3, 4, 9, 18, 29, 35.	Bisections at I, III.	37	9.7
2 18	30.06	24.2	22.4	5, 7.	Bisections at II, III.	38	9.3
2 50	30.06	23.8	22.0	10, 14, 19, 30, 31.	Bisections at V, VII.	39	9.5
3 24	30.06	23.5	21.3	12.	Bisection at III.	40	9.4
19 0 37	29.885	48.5	52.7	28, 33.	Bisections at IV, V.	41	6.9
				39.	Bisections at II, VI, VII.	42	6.7
Adopted Equator Point.... 1-40 38° 56' 9".40							

NO.	NAME.	THDS.	MEAN THREAD.	INST. COR.	CLOCK COR.	APPARENT R. A.	RED. TO 1900.0	CIRCLE READING.	MICROMETER READINGS.	REFR.	APPARENT DECL.	RED. TO 1900.0
			m s	s	s	h m s	s	° ' "	r r		° ' "	"
1	ξ Andromedæ. . . .	11	17 12.25	+0.03	-39.82	1 16		353 50 9.85	45.995 .980 .775		6.2 +45 0	
2	δ Cassiopeïæ	9	20 2.77	-0.14	-39.95	1 19		339 8 10.65	44.600 .390 .595		22.0 +59 43	
3	B. D. +51° 317	9	25 11.97	-0.03	-39.84	1 24 32.10	-5.92	347 16 10.68	44.995 .820	A	13.0 +51 35 18.5	-36.8
4	B. D. +51° 323	9	26 32.48	0.04	39.84	1 25 52.60	5.97	346 52 10.22	39.235 .160	A	13.4 +51 57 54.1	36.7
5	B. D. +51° 331	8	28 44.64	0.03	39.84	1 28 4.77	5.97	347 30			51 19	
6	B. D. +51° 334	9	29 19.78	0.04	39.84	1 28 39.90	6.00	347 12			51 39	
7	B. D. +51° 338	9	30 8.54	-0.04	-39.84	1 29 28.66	-6.01	347 12 10.98	43.530 .400		13.1 +51 39 44.1	-36.1
8	B. D. +52° 387	8	31 25.56	-0.04	-39.84	1 30 45.68	-6.09	346 14 10.32	48.040 .965		14.1 +52 36 18.7	-36.4
9	B. D. +52° 393	9	33 17.97	0.05	39.84	1 32 38.08	6.13	346 14 10.52	43.010 .985	C	14.3 52 44 22.3	36.2
10	B. D. +52° 393	10	34 37.80	0.05	39.84	1 33 57.91	6.20	345 28 10.35	38.195 .020	A	15.0 53 22 16.2	36.3
11	B. D. +52° 406	9	36 9.49	-0.05	39.84	1 35 29.60	-6.19	345 58 11.00	46.490 .380		14.4 52 52 50.4	-36.0
12	Eros	11	38 12.30	+0.04	-39.84	1 37 32.50		355 24 9.00	44.625 .560 .615 .475		4.6 +43 27 18.0	
13	B. D. +52° 433	9	40 29.63	-0.05	-39.84	1 39 49.74	-6.28	345 44 10.60	46.140 .080		14.7 +53 6 57.3	-35.6
14	B. D. +54° 383	9	43 26.10	0.07	39.84	1 42 46.19	6.45	344 12 10.10	45.440 .380		16.4 54 39 12.9	35.6
15	B. D. +54° 388	9	44 44.29	0.07	39.84	1 44 4.38	6.48	344 12 10.42	41.075 .025	B	16.5 54 43 49.3	35.5
16	B. D. +54° 396	9	46 11.59	0.07	39.84	1 45 31.68	6.50	344 12 10.40	43.840 .785		16.4 54 39 43.3	35.4
17	B. D. +54° 408	9	47 57.58	0.08	39.84	1 47 17.66	6.57	343 44 11.35	46.510 .360		16.9 55 6 52.6	35.2
18	B. D. +53° 419	9	49 12.30	-0.06	-39.84	1 48 32.40	-6.48	345 8 11.25	47.880 .765		15.4 +53 42 24.6	-34.9
19	B. D. +54° 444	9	57 13.56	-0.07	-39.84	1 56 33.65	-6.70	344 6 11.32	44.255 .170		16.5 +54 45 34.9	-34.2
20	B. D. +54° 469	9	3 56.02	0.07	39.84	2 3 16.11	6.84	343 50 11.02	44.960 .865		16.8 55 1 22.2	33.5
21	B. D. +53° 470	9	5 46.47	0.06	39.84	2 5 6.57	6.78	344 46 11.80	44.975 .910		15.8 54 5 19.8	33.1
22	B. D. +53° 486	9	8 51.80	0.06	39.84	2 8 11.90	6.83	344 46 11.90	47.885 .800		15.8 54 4 24.1	32.7
23	B. D. +54° 511	9	12 22.74	0.07	39.84	2 11 42.83	6.98	343 46 10.12	45.470 .350		16.9 55 5 13.6	32.5
24	B. D. +54° 525	9	14 50.99	-0.07	-39.84	2 14 11.08	-7.01	343 54 11.12	44.685 .605		16.8 +54 57 27.2	-32.2
25	B. D. +54° 535	9	17 41.32	-0.07	-39.84	2 17 1.41	-7.05	343 54 11.12	41.950 .940	A	16.8 +54 55 5.3	-31.8

1900 DECEMBER 20.													
KING, OBSERVER.					CLAMP EAST.					HAMMOND, ASSISTANT.			
NO.	NAME.	THDS.	MEAN THREAD.	INST. COR.	CLOCK COR.	APPARENT R. A.	RED. TO 1900. 0	CIRCLE READING.	MICROMETER READINGS.		REFR.	APPARENT DECL.	RED. TO 1900. 0
			m s	s	s	h m s	s	° ' "	r	r	"	° ' "	"
1	α Cassiopeiae.....	11	39 54.40	+0.03	-40.43	0 39 .....	....	351 6 11.20	46.080 .055	.880 .800	9.2	+47 44 ....	....
2	γ Cassiopeiae.....	11	51 26.50	-0.11	40.45	0 50 .....	....	338 40 10.62	45.750 .775	.655 .570	23.0	60 11 ....	....
3	ξ Andromedae.....	11	17 12.85	+0.06	-40.46	1 16 .....	....	353 50 9.60	45.970 .970	.... ....	6.3	+45 0 ....	....
4	B. D. +49° 741	9	35 5.72	+0.02	-40.44	2 34 25.30	-6.80	349 16 11.02	44.510 .490	.490 C	11.2	+49 35 24.9	-28.8
5	B. D. +49° 743	6	35 12.38	0.02	40.44	2 34 31.96	6.81	349 16 11.25	44.495 .415	.415 C	11.3	49 41 48.9	28.8
6	B. D. +42° 610	9	37 21.59	0.08	40.44	2 36 41.23	6.33	356 16 8.82	43.820 .785	.785 A	3.8	42 35 32.4	27.2
7	B. D. +40° 577	9	38 7.74	0.09	40.44	2 37 27.39	6.25	357 46 10.45	45.930 .865	.865 A	2.2	41 4 48.6	26.8
8	B. D. +40° 590	9	40 34.25	+0.09	-40.44	2 39 53.90	-6.27	357 46 10.62	42.020 .980	.980 A	2.2	+41 2 50.0	-26.5
9	B. D. +45° 660	9	41 21.07	+0.05	-40.44	2 40 40.68	-6.56	353 20 10.88	47.940 .875	.875 C	6.9	+45 30 14.3	-27.3
10	B. D. +47° 700	9	42 31.12	0.03	40.44	2 41 50.71	6.77	350 48 10.22	46.895 .840	.840 C	9.6	48 2 37.6	27.6
11	B. D. +44° 582	9	43 51.81	0.06	40.44	2 43 11.43	6.56	353 52 9.72	43.270 .250	.250 C	6.3	44 59 44.0	26.8
12	B. D. +45° 667	9	44 56.63	0.05	40.44	2 44 16.24	6.62	353 10 9.48	48.890 .840	.840 C	7.0	45 39 57.4	26.8
13	B. D. +47° 720	9	46 24.60	+0.04	-40.44	2 45 44.20	-6.77	351 20 9.82	47.250 .220	.220 C	9.0	+47 30 30.5	-27.0
14	τ Persei.....	10	47 57.55	-0.02	-40.46	2 47 .....	....	346 30 11.30	43.915 .875	.730 .640	14.2	+52 21 ....	....
15	γ Persei.....	11	58 20.90	-0.02	40.42	2 57 .....	....	345 44 10.70	44.975 .970	.835 .790	15.1	53 7 ....	....
16	β Persei.....	11	2 26.34	+0.09	40.41	3 1 .....	....	358 16 9.62	46.600 .585	.420 .390	1.7	40 34 ....	....
17	α Persei.....	11	17 58.55	+0.02	-40.46	3 17 .....	....	349 20 10.38	46.765 .730	.630 .530	11.1	+49 30 ....	....

1900 DECEMBER 21.													
KING, OBSERVER.					CLAMP EAST.					HAMMOND, ASSISTANT.			
18	α Cassiopeiae.....	11	39 54.88	-0.12	-41.02	0 39 .....	....	351 6 11.28	46.030 .850	.850 .780	9.3	+47 44 ....	....
19	γ Cassiopeiae.....	11	51 27.11	-0.01	41.20	0 50 .....	....	338 40 11.22	45.810 .700	.605 .495	23.2	60 11 ....	....
20	ξ Andromedae.....	11	17 13.33	+0.15	41.04	1 16 .....	....	353 50 10.88	45.900 .895	.715 .660	6.4	45 0 ....	....
21	δ Cassiopeiae.....	11	20 3.77	-0.01	-41.13	1 19 .....	....	339 8 11.30	44.515 .535	.375 .270	22.7	+59 43 ....	....
22	B. D. +49° 401	9	25 24.62	+0.10	-41.10	1 24 43.62	-5.81	348 44 11.12	47.390 .345	.345 B	11.9	+50 9 43.5	-36.6
23	B. D. +49° 400	9	25 25.21	0.10	41.10	1 24 44.21	5.80	348 44 11.22	47.125 .995	.995 B	11.8	50 6 32.8	36.6
24	B. D. +50° 298	9	26 59.61	0.10	41.10	1 26 18.61	5.86	348 12 11.45	44.210 .115	.115 B	12.4	50 39 28.7	36.6
25	B. D. +51° 334	9	29 20.88	0.09	41.10	1 28 39.87	5.96	347 12 11.38	45.530 .485	.485 B	13.5	51 39 6.0	36.6
26	B. D. +51° 339	9	31 11.43	+0.09	-41.10	1 30 30.42	-5.96	347 36 11.15	46.245	 B	13.1	+51 14 52.4	-36.3
27	B. D. +51° 344	9	31 56.62	+0.08	-41.10	1 31 15.60	-6.03	346 48 11.48	40.730 .710	.710 B	14.0	+52 7 51.1	-36.4
28	B. D. +51° 360	9	34 21.61	0.08	41.10	1 33 40.59	6.07	346 48 11.52	47.370 .360	.360 C	14.0	52 8 57.5	36.2
29	B. D. +51° 364	9	34 57.54	0.08	41.10	1 34 16.52	6.08	346 48 11.45	49.150 .055	.055 C	13.9	52 1 57.4	36.1
30	B. D. +45° 422	9	37 10.71	0.14	41.10	1 36 29.75	5.74	353 24 10.80	47.750 .730	.730 C	6.9	45 32 44.0	34.5
31	B. D. +45° 424	9	37 51.04	+0.14	-41.10	1 37 10.08	-5.74	353 24 10.75	46.320 .220	.220 C	6.8	+45 26 45.3	-34.5
32	Eros.....	11	41 22.92	+0.16	-41.10	1 40 41.98	....	356 14 10.62	46.670 .635	.560 .420	3.9	+42 36 36.4	....
33	B. D. +54° 392	9	45 29.74	0.05	41.10	1 44 48.69	-6.47	343 56 11.75	45.370 .305	.305 C	17.1	54 55 12.5	-35.7
34	B. D. +53° 419	9	49 13.30	0.07	41.10	1 48 32.27	6.44	345 8 11.20	47.895 .780	.780 C	15.8	53 42 23.8	35.1
35	B. D. +54° 424	9	52 0.68	+0.05	-41.10	1 51 19.63	-6.58	343 58 11.85	44.590 .470	.470 C	17.1	+54 53 27.9	-35.0

Time.	Barom.	Att. Ther.	Ex. Ther.	Telescope micrometer bisections are made at III and V, except as noted below.					No.	Eq. Points.
d h m	in.	°	°							° ' "
20 0 37	29.74	41.8	39.5	1, 2, 14, 15, 16, 17, 18, 19, 20, 21, 32.					1	38 56 6.4
1 15	29.75	39.4	38.0	3, 8.					2	6.5
2 32	29.76	36.7	35.2	4, 22, 28, 30.					3	6.1
3 19	29.75	35.5	34.6	5, 23, 24.					14	6.9
21 0 38	29.65	33.4	32.6	6.					15	7.0
1 20	29.66	32.8	32.4	26.					16	7.2
1 50	29.67	32.0	32.1	27.					17	6.6
Notes.										
Dec. 20. Fairly good seeing. Stars somewhat diffuse.										
21. Seeing good at beginning, but only fair at end.										
Adopted Equator Point.... 1-17 { 0 ^h .940 38° 56' 6 ^m .33										
18-35 { 3.028 6 ^m .92										
6.42										
21 { 6 ^m .92										
6.42										

NO.	NAME.	THDS.	MEAN THREAD.	INST. COR.	CLOCK COR.	APPARENT R. A.	RED. TO 1900.0	CIRCLE READING.	MICROMETER READINGS.	REFR.	APPARENT DECL.	RED. TO 1900.0
			m s	s	s	h m s	s	° ' "	r r	"	° ' "	"
1	B. D. +55° 464	9	53 38.72	+0.05	-41.10	1 52 57.67	-6.65	343 32 11.10	47.620 .535	17.6	+55 18 30.7	-34.9
2	B. D. +53° 439	9	56 25.98	0.06	41.10	1 55 44.94	6.58	344 50 11.62	46.545 .465	16.1	54 0 49.2	34.4
3	B. D. +55° 484	9	57 51.91	0.05	41.10	1 57 10.86	6.72	343 40 9.92	45.065 .045	17.6	55 17 46.2	34.4
4	B. D. +54° 453	9	59 5.77	0.05	41.10	1 58 24.72	6.73	343 40 9.75	41.775 .650	17.4	55 9 9.6	34.3
5	B. D. +53° 453	9	2 24.27	0.06	41.10	2 1 43.23	6.70	344 44 10.62	42.365 .290	16.3	54 8 10.5	33.7
6	B. D. +55° 527	9	3 36.15	+0.05	-41.10	2 2 55.10	-6.83	343 28 11.05	45.090 .995	17.7	+55 23 19.5	-33.8
7	B. D. +55° 551	9	8 54.46	+0.05	-41.10	2 8 13.41	-6.91	343 40 11.42	46.340 . . .	17.6	+55 17 20.6	-33.2
8	B. D. +54° 500	9	9 22.44	0.05	41.10	2 8 41.39	6.90	343 40 11.55	44.535 .460	17.4	55 8 14.3	33.1
9	B. D. +53° 494	9	11 54.83	0.06	41.10	2 11 13.79	6.84	344 50 10.78	47.350 .240	16.1	54 0 34.7	32.6
10	B. D. +52° 563	9	12 53.97	0.07	41.10	2 12 12.94	6.77	345 44 11.65	44.735 .655	15.1	53 7 22.9	32.3
11	B. D. +53° 507	9	15 8.09	0.06	41.10	2 14 27.05	6.90	344 48 10.92	44.190 .065	16.2	54 3 35.6	32.2
12	B. D. +54° 530	8	16 32.32	+0.06	-41.10	2 15 51.28	-6.97	344 14 11.60	43.255 .105	16.8	+54 37 53.7	-32.2
13	B. D. +53° 521	9	18 16.89	+0.07	-41.10	2 17 35.86	-6.87	345 32 10.50	43.800 .680	15.4	+53 19 42.7	-31.7
14	B. D. +53° 525	9	20 18.35	0.07	41.10	2 19 37.32	6.94	345 10 11.05	46.140 .000	15.8	53 40 57.8	31.5
15	B. D. +52° 587	9	23 40.47	0.08	41.10	2 22 59.45	6.89	346 14 10.62	44.755 .625	14.6	52 37 23.5	30.9
16	B. D. +52° 592	9	25 51.21	0.08	41.10	2 25 10.19	6.90	346 26 11.62	49.205 .130	14.3	52 23 57.4	30.6
17	B. D. +53° 540	9	26 37.49	0.07	41.10	2 25 56.46	7.02	345 18 11.50	47.195 .100	15.6	53 32 36.5	30.7
18	B. D. +52° 595	9	28 4.87	+0.08	-41.10	2 27 23.85	-6.94	346 26 12.00	49.235 .135	14.3	+52 23 55.7	-30.3
19	B. D. +53° 546	9	29 20.03	+0.07	-41.10	2 28 39.00	-7.04	345 36 10.52	44.665 .505	15.3	+53 15 26.4	-30.3
20	B. D. +51° 598	9	30 3.71	0.08	41.10	2 29 22.69	6.93	346 48 11.70	44.290 .115	14.0	52 3 29.3	30.0
21	B. D. +49° 733	9	33 37.09	0.10	41.10	2 32 56.09	6.81	348 46 11.25	43.605 .510	11.8	50 5 41.8	29.2
22	B. D. +49° 752	9	37 33.84	0.10	41.10	2 36 52.84	6.85	348 54 11.38	42.530 .450	11.7	49 58 2.1	28.7
23	B. D. +46° 622	9	38 41.09	+0.13	-41.10	2 38 0.12	-6.59	352 26 9.15	43.720 .565	7.9	+46 25 38.4	-27.9
24	B. D. +46° 628	9	40 10.61	+0.13	-41.10	2 39 29.64	-6.63	352 2 11.20	45.065 .970	8.3	+46 49 10.4	-27.8
25	B. D. +46° 638	9	42 38.28	0.13	41.10	2 41 57.31	6.64	352 18 10.45	44.890 .795	8.1	46 33 14.3	27.4
26	B. D. +43° 662	9	43 42.58	0.14	41.10	2 43 1.62	6.61	352 52 10.50	43.610 .530	7.4	45 59 38.0	27.2
27	B. D. +44° 591	9	45 54.28	0.15	41.10	2 45 13.33	6.54	354 20 10.70	39.930 .905	6.0	44 39 13.2	26.6
28	B. D. +44° 593	9	46 4.30	+0.15	-41.10	2 45 23.35	-6.54	354 20 10.90	40.415 .290	5.8	+44 29 21.0	-26.6
29	τ Persei	11	47 58.10	+0.08	-41.12	2 47		346 30 11.18	43.745	14.3	+52 21	
30	B. D. +44° 598	9	50 16.46	0.15	41.10	2 49 35.51	-6.59	354 16 10.90	45.360 .240	5.9	44 35 2.9	-26.0
31	γ Persei	11	58 21.50	0.07	41.12	2 57		345 44 11.10	44.985 .835	15.2	53 7	
32	β Persei	11	2 26.91	0.18	41.08	3 1		358 16 10.10	46.545 .365	1.7	40 34	
33	α Persei	11	17 59.07	+0.11	-41.08	3 17		349 20 10.70	46.705 .590	11.2	+49 30	

1900 DECEMBER 26.

CLAMP EAST.

KING, OBSERVER.

BOEGER, ASSISTANT.

34	α Cassiopeiæ	11	39 56.77	-0.04	-42.85	0 39		351 6 10.92	46.075 .890	9.4	+47 44	
35	γ Cassiopeiæ	11	51 28.89	0.22	42.92	0 50		338 40 10.92	45.735 .610	23.5	60 11	
36	ξ Andromedæ	11	17 15.24	0.00	42.90	1 16		353 50 11.20	45.840 .655	6.4	45 0	
37	δ Cassiopeiæ	11	20 5.52	-0.22	-42.81	1 19		339 8 10.95	44.535 .380	23.0	+59 43	
38	B. D. +49° 403	9	25 40.93	-0.06	-42.88	1 24 57.99	-5.70	348 56 10.82	44.445 .385	11.8	+49 55 25.5	-36.8
39	B. D. +50° 299	9	27 11.38	0.07	42.88	1 26 28.43	5.75	348 32 10.70	45.205 .205	12.2	50 19 11.1	36.8
40	B. D. +50° 301	8	27 48.76	0.07	42.88	1 27 5.81	5.76	348 32 10.62	44.505 .475	12.3	50 22 38.1	36.7
41	B. D. +49° 414	9	29 8.42	0.06	42.88	1 28 25.48	5.76	348 46 11.05	46.090 .075	11.9	50 1 38.7	36.5
42	B. D. +49° 416	5	30 54.69	-0.06	-42.88	1 30 11.75	-5.90	348 46 11.10	40.870	12.1	+50 13 0.5	-36.4

Time.	Barom.	Att. Ther.	Ex. Ther.	Telescope micrometer bisections are made at III and V, except as noted below.							No.	Eq. Points.
d h m	in.	°	°									° ' "
21 2 20	29.68	31.3	32.1	7.	Bisection at III.						29	38 56 7.2
2 51	29.685	30.9	31.0	16, 27.	Bisections at I, III.						31	7.3
3 16	29.69	30.5	30.4	20, 28.	Bisections at V, VII.						32	6.4
0 31	29.91	34.0	31.5	29.	Bisections at VI, VII.						33	6.3
1 21	29.915	32.0	30.6	31, 32, 33, 34, 35, 36, 37.	Bisections at I, II, VI, VII.						34	6.1
				39.	Bisections at III, IV.						35	5.9
				42.	Bisection at I.						36	5.4
					Note.						37	6.5
					Dec. 26. Very good seeing.							
Adopted Equator Point. . . . I-33 38° 56' 6''.42 34-42 6 .08												

NO.	NAME.	THDS.	MEAN THREAD.	INST. COR.	CLOCK COR.	APPARENT R. A.	RED. TO 1900.0	CIRCLE READING.	MICROMETER READINGS.	REFR.	APPARENT DECL.	RED. TO 1900.0
			m s	s	s	h m s	s	° ' "	r r	"	° ' "	"
1	B. D.+50° 314	8	31 33.64	-0.07	-42.88	1 30 50.69	-5.84	348 6 6.10	44. ... .150	12.7	+50 45 35.5	-36.5
2	B. D.+49° 422	9	32 31.10	0.06	42.88	1 31 48.16	5.82	348 44 11.82	47.510 .540	12.0	50 6 25.1	36.3
3	B. D.+52° 399	9	34 2.70	0.10	42.88	1 33 19.72	5.99	346 26 11.42	45.755 .650	14.5	52 25 2.9	36.7
4	B. D.+52° 420	9	38 6.33	0.09	42.88	1 37 23.36	6.06	346 26 11.28	40. ... .480	A 14.5	52 23 29.3	36.3
5	B. D.+52° 424	9	38 47.72	0.10	42.88	1 38 4.74	6.09	346 10 11.75	43.575 .500	14.8	52 41 44.4	36.3
6	B. D.+52° 441	9	42 42.27	-0.10	-42.89	1 41 59.28	-6.16	346 10 11.75	41.700 .610	B 14.9	+52 45 33.9	-35.9
7	B. D.+54° 393	9	45 42.94	-0.12	-42.89	1 44 59.93	-6.33	344 24 11.55	48.115 .025	16.8	+54 26 19.7	-36.0
8	B. D.+54° 413	9	49 2.75	-0.12	42.89	1 48 19.74	6.38	344 36 10.82	46.870 .835	16.6	54 14 44.8	35.6
9	Eros	11	50 50.42	+0.04	42.89	1 50 7.57	.....	358 22 10.85	46.970 .900	1.6	40 28 26.8	....
									.975 .850			
10	B. D.+53° 428	9	52 26.16	-0.12	42.89	1 51 43.15	6.43	344 44 13.30	43.450 .415	16.5	54 7 46.3	35.3
11	B. D.+54° 431	8	53 46.10	-0.12	-42.89	1 53 3.09	-6.47	344 34 10.55	44.410 .255	B 16.7	+54 20 43.5	-35.2
12	B. D.+53° 440	9	57 34.68	-0.12	-42.89	1 56 51.67	-6.52	344 34 10.72	47. ... .445	A 16.6	+54 13 16.8	-34.8
13	B. D.+54° 452	9	58 47.65	0.12	42.89	1 58 4.64	6.55	344 34 10.68	45.680 .595	16.6	54 17 7.0	34.6
14	B. D.+54° 470	9	4 17.58	0.13	42.89	2 3 34.56	6.69	344 2 11.98	43.935 .845	17.3	54 49 39.9	34.2
15	B. D.+54° 483	9	7 1.32	0.13	42.90	2 6 18.29	6.72	344 12 9.62	46.160 .060	17.1	54 35 59.5	33.8
16	B. D.+54° 497	9	9 7.03	0.13	42.90	2 8 24.00	6.76	344 12 9.55	49.990 .910	17.1	54 37 45.9	33.6
17	B. D.+53° 497	9	12 24.75	-0.12	-42.90	2 11 41.73	-6.74	345 2 10.75	44.345 .325	16.1	+53 49 32.7	-33.1
18	B. D.+53° 501	9	12 56.42	-0.11	-42.90	2 12 13.41	-6.74	345 10 11.82	43.465 .400	A 15.9	+53 38 32.7	-33.0
19	B. D.+53° 513	9	15 44.51	0.11	42.90	2 15 1.50	6.79	345 10 10.68	44.320 .270	16.1	53 47 58.2	31.1
20	B. D.+53° 519	9	18 10.10	0.11	42.90	2 17 27.09	6.83	345 10 10.72	44.650 .605	B 16.1	53 44 40.5	32.4
21	B. D.+54° 539	9	19 5.23	0.13	42.90	2 18 22.20	6.94	344 2 10.80	47.350 .255	17.3	54 48 35.6	32.5
22	B. D.+54° 554	9	22 36.79	-0.12	-42.90	2 21 53.77	-6.97	344 18 10.70	48.795 .710	17.0	+54 32 7.6	-32.0
23	B. D.+53° 532	9	23 55.27	-0.11	-42.90	2 23 12.26	-6.89	345 26 9.82	46.530 .485	15.7	+53 24 50.3	-31.6
24	B. D.+51° 587	9	25 47.45	0.09	42.90	2 25 4.46	6.78	346 58 10.40	48.175 .050	14.0	51 52 17.2	31.1
25	B. D.+53° 541	9	26 45.99	0.12	42.90	2 26 2.97	7.00	344 44 11.38	47.075 .965	16.5	54 6 39.7	31.4
26	B. D.+51° 594	9	28 29.65	0.08	42.90	2 27 46.67	6.79	347 18 11.02	47. ... .530	13.6	51 32 27.5	30.7
27	B. D.+50° 587	9	29 13.73	-0.07	-42.90	2 28 30.76	-6.74	348 6 12.20	44.055 .005	12.7	+50 45 32.4	-30.4
28	B. D.+51° 599	9	30 45.69	-0.08	-42.91	2 30 2.70	-6.82	347 20 9.55	42.910 .830	13.6	+51 31 58.2	-30.4
29	B. D.+50° 589	9	32 12.90	0.07	42.91	2 31 29.92	6.75	348 30 11.00	48. ... .615	12.4	50 26 30.7	30.0
30	B. D.+50° 595	9	33 14.83	0.07	42.91	2 32 31.85	6.76	348 30 11.05	44.005 .945	12.3	50 21 34.2	29.9
31	B. D.+49° 753	9	37 37.59	0.06	42.91	2 36 54.62	6.81	348 38 11.75	42.485 .360	A 12.1	50 10 48.4	29.3
32	B. D.+50° 620	9	38 54.78	-0.07	-42.91	2 38 11.80	-6.84	348 38 12.35	48.030 .975	C 12.2	+50 18 41.5	-29.2
33	B. D.+50° 627	9	40 19.28	-0.06	-42.91	2 39 36.31	-6.84	348 38 12.58	48.175 .075	12.1	+50 12 12.9	-28.9
34	B. D.+50° 636	8	42 25.68	0.07	42.91	2 41 42.70	6.90	348 22 9.65	45.350 .255	12.4	50 29 10.3	28.7
35	B. D.+48° 764	9	43 33.10	-0.05	42.91	2 42 50.14	6.74	350 22 9.40	48.090 .015	10.2	48 28 15.6	28.2
36	B. D.+40° 612	7	44 54.87	+0.04	42.91	2 44 12.00	6.25	357 58 9.35	44.045 .000	2.1	40 53 23.6	26.4
37	B. D.+48° 777	9	46 10.04	-0.04	-42.91	2 45 27.09	-6.78	350 22 9.48	46.680 .690	10.2	+48 28 41.4	-27.8
38	τ Persei	11	48 0.00	-0.09	-42.91	2 47 .....	.....	346 30 10.48	43.900 .760	14.5	+52 21 .....	....
									.890 .640			
39	γ Persei	11	58 23.43	-0.10	-42.94	2 57 .....	.....	345 44 10.70	44.920 .765	15.4	53 7 .....	....
									.910 .710			
40	β Persei	11	2 28.90	+0.04	-42.97	3 1 .....	.....	358 16 8.85	46.525 .415	1.8	40 34 .....	....
									.525 .310			
41	α Persei	11	18 0.97	-0.06	-42.85	3 17 .....	.....	349 20 9.70	46.715 .570	11.4	+49 30 .....	....
									.710 .535			

Time.	Barom.	Att. Ther.	Ex. Ther.	Telescope micrometer bisections are made at III and V, except as noted below.							No.	Eq. Points.
d h m	in.	°	°									° ' "
26 1 47	29.92	31.2	30.0	1, 12, 29.	Bisection at V.						38	38 56 6.7
2 20	29.92	30.8	29.2	4.	Bisection at III.						39	6.4
2 48	29.92	30.4	28.4	8, 17, 20.	Bisections at I, II.						40	5.8
3 19	29.93	29.8	28.2	9, 38, 39, 40, 41.	Bisections at I, II, VI, VII.						41	5.8
				10, 37.	Bisections at IV, V.							
				11.	Bisections at V, VII.							
				26.	Bisection at IV.							
				36.	Bisections at V, VI.							
Adopted Equator Point.... 1-41 38° 56' 6".08												

1900 DECEMBER 27. CLAMP EAST.													
KING, OBSERVER.							BOEGER, ASSISTANT.						
NO.	NAME.	THDS.	MEAN THREAD.	INST. COR.	CLOCK COR.	APPARENT R. A.	RED. TO 1900.0	CIRCLE READING.	MICROMETER READINGS.		REFR.	APPARENT. DECL.	RED. TO 1900.0
			m s	s	s	h m s	s	° ' "	r	r	"	° ' "	"
1	α Cassiopeiæ.....	II	39 56.80	+0.04	-42.98	0 39 .....	....	351 6 9.78	46.035 .025	.910 .825	9.3	+47 44 ....	....
2	γ Cassiopeiæ.....	II	51 28.94	-0.14	43.08	0 50 .....	....	338 40 10.15	45.765 .715	.610 .505	23.4	60 11 ....	....
3	ξ Andromedæ.....	II	17 15.37	+0.07	43.12	1 16 .....	....	353 50 9.88	45.840 .865	.715 .640	6.4	45 0 ....	....
4	δ Cassiopeiæ.....	IO	20 5.69	-0.13	-43.10	1 19 .....	....	339 8 9.35	44. .... .330	.415 .090	22.9	+59 43 ....	....
5	B. D.+37° 596	9	35 43.38	+0.14	-43.09	2 35 0.43	-5.98	1 2 9.02	46.130	.090	1.2	+37 48 42.1	-26.9
6	B. D.+41° 517	9	36 36.63	0.11	43.09	2 35 53.65	6.20	357 6 9.65	44.305	.235	3.0	41 45 19.7	27.7
7	B. D.+42° 615	9	37 55.97	0.10	43.09	2 37 12.98	6.24	356 44 9.45	49.235	.185	C 3.5	42 12 11.6	27.6
8	B. D.+41° 530	9	40 1.66	0.10	43.09	2 39 18.67	6.26	356 44 9.45	46.175	.090	C 3.4	42 6 45.8	27.4
9	B. D.+43° 574	7	40 50.36	0.09	43.09	2 40 7.36	6.34	355 36 8.60	46.500	....	C 4.7	43 21 6.2	27.5
10	B. D.+43° 579	9	42 33.07	0.09	43.10	2 41 50.06	6.35	355 36 8.52	42.575	.540	A 4.5	43 12 41.6	27.3
11	B. D.+43° 580	8	43 24.21	+0.08	-43.10	2 42 41.19	-6.41	354 56 8.52	47.640	.530	5.3	+43 54 19.6	-27.3
12	ϵ Persei.....	II	48 0.15	-0.01	-43.15	2 47 .....	....	346 30 9.10	43.920 .875	.775 .665	14.4	+52 21 ....	....
13	γ Persei.....	II	58 23.52	-0.02	43.13	2 57 .....	....	345 44 9.62	44.930 .905	.815 .720	15.3	53 7 ....	....
14	β Persei.....	II	2 28.95	+0.12	43.11	3 1 .....	....	358 16 9.40	46.410 .390	.280 .215	1.7	40 34 ....	....
15	α Persei.....	II	18 1.04	+0.02	-43.01	3 17 .....	....	349 20 9.75	46.655 .610	.505 .400	11.3	+49 30 ....	....

1900 DECEMBER 28. CLAMP EAST.													
KING, OBSERVER.							BOEGER, ASSISTANT.						
16	α Cassiopeiæ.....	II	39 57.13	-0.02	-43.27	0 39 .....	....	351 6 9.18	46.015 .970	.845 .745	9.1	+47 44 ....	....
17	γ Cassiopeiæ.....	II	51 29.19	-0.19	43.31	0 50 .....	....	338 40 9.58	45.655 .640	.520 .430	22.9	60 11 ....	....
18	ξ Andromedæ.....	II	17 15.68	+0.01	43.39	1 16 .....	....	353 50 8.98	45.850 .830	.745 .640	6.3	45 0 ....	....
19	δ Cassiopeiæ.....	II	20 6.03	-0.18	-43.42	1 19 .....	....	339 8 9.32	44.540 .535	.400 .285	22.4	+59 43 ....	....
20	B. D.+49° 399	9	24 49.62	-0.03	-43.39	1 24 6.20	-5.62	349 26 8.55	42.265	.215	10.9	+49 26 6.8	-36.8
21	B. D.+50° 297	6	26 31.10	0.05	43.39	1 25 47.66	5.73	347 52 8.72	45.	.470	A 12.5	50 55 50.7	37.1
22	B. D.+50° 300	7	27 38.06	0.05	43.39	1 26 54.62	5.75	347 52 10.05	46.635	.570	12.6	50 58 42.1	37.0
23	B. D.+51° 331	9	28 48.01	-0.06	-43.39	1 28 4.56	-5.79	347 30 9.15	49.395	.265	13.0	+51 19 50.4	-37.0
24	B. D.+46° 393	9	30 48.39	0.00	-43.39	1 30 5.00	-5.58	352 14 8.95	46.320	.240	8.0	+46 36 46.0	-35.7
25	B. D.+46° 397	8	31 7.81	0.00	43.39	1 30 24.42	5.60	352 2 9.30	43.995	.860	8.2	46 49 29.2	35.7
26	B. D.+46° 404	5	32 1.90	0.00	43.39	1 31 18.51	5.59	352 24 9.52	45.755	.695	7.8	46 26 53.6	35.5
27	B. D.+53° 355	9	33 54.65	-0.09	43.39	1 33 11.17	6.02	345 14 9.95	42.040	.930	15.5	53 38 15.0	37.0
28	B. D.+51° 363	9	34 52.00	-0.06	-43.39	1 34 8.55	-5.90	347 30 9.42	42.500	.440	13.0	+51 22 3.7	-36.5
29	B. D.+42° 352	9	36 52.58	+0.03	-43.40	1 36 9.21	-5.51	355 42 8.58	46.555	.455	B 4.3	+43 8 38.5	-34.3
30	B. D.+42° 356	9	38 6.42	0.03	43.40	1 37 23.05	5.53	355 42 8.40	44.245	.160	4.4	43 12 36.2	34.2
31	B. D.+42° 361	9	39 2.38	0.03	43.40	1 38 19.01	5.54	355 42 8.40	44.585	.535	4.4	43 9 16.1	34.1
32	B. D.+42° 370	9	41 5.72	0.03	43.40	1 40 22.35	5.57	355 42 8.20	43.500	.450	4.4	43 12 50.4	33.9
33	B. D.+43° 373	6	44 0.05	+0.03	-43.40	1 43 16.68	-5.57	355 42 8.72	47.340	.360	C 4.4	+43 14 48.3	-33.7

Time.	Barom.	Att. Ther.	Ex. Ther.	Telescope micrometer bisections are made at III and V, except as noted below.		No.	Eq. Points.
d h m	in.	°	°				° ' "
27 0 38	29.99	34.8	34.0	1, 2, 3, 12, 13, 14, 15, 16, 17, 18, 19.	Bisections at I, II, VI, VII	1	38 56 4.8
1 23	29.99	33.8	33.2	4, 26.	Bisections at VI, VII.	2	5.2
2 25	29.97	33.2	32.0	5, 8, 10.	Bisections at I, III.	3	4.6
3 18	29.99	33.8	33.4	9.	Bisection at III.	4	5.8
28 0 37	29.72	41.0	41.4	21.	Bisection at V.	12	5.7
1 20	29.72	40.0	40.5	22.	Bisections at V, VI.	13	5.8
				23, 25.	Bisections at V, VII.	14	4.2
						15	4.4
						16	3.4
						17	3.5
						18	3.8
						19	5.8
Notes.							
Dec. 27. Seeing only moderately good; clouds.							
28. Before Eros the seeing was very poor, afterwards it materially improved.							
Adopted Equator Point. . . . 1-15 38° 56' 5".06							
16-33 { 1 ^h .040 4 .12							
2 .480 4 .82							

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NO.	NAME.	THDS.	MEAN THREAD.	INST. COR.	CLOCK COR.	APPARENT R. A.	RED. TO 1900.0	CIRCLE READING.	MICROMETER READINGS.	REFR.	APPARENT DECL.	RED. TO 1900.0
			m s	s	s	h m s	s	° ' "	r r	"	° ' "	"
1	γ Persei.....	II	58 25.15	+0.06	-44.91	2 57 .....	....	345 44 10.52	44.785 .795	15.3	+53 7 ....	....
2	β Persei.....	II	2 30.70	+0.16	-44.94	3 1 .....	....	358 16 9.25	46.395 .380 .195	1.7	+40 34 ....	....
1901 JANUARY 2. CLAMP EAST.												
KING, OBSERVER.						HAMMOND, ASSISTANT.						
3	ξ Andromedæ.....	8	17 17.19	+0.09	-45.06	1 16 .....	....	353 50 9.75	45. .... .760 .670	6.5	+45 0 ....	....
4	δ Cassiopeiæ.....	II	20 7.33	-0.10	-44.94	1 19 .....	....	339 8 10.48	44. .... .350 .460 .280	23.3	+59 43 ....	....
5	B. D.+47° 429	9	25 24.00	+0.07	-45.01	1 24 39.06	-5.43	351 28 10.50	44.195 .185	9.1	+47 23 27.6	-36.4
6	B. D.+48° 455	9	26 16.97	0.06	45.01	1 25 32.02	5.49	350 34 9.40	45.990 .910	10.1	48 16 54.9	36.5
7	B. D.+48° 463	9	28 6.83	0.06	45.01	1 27 21.88	5.53	350 20 8.85	45.950 .885	10.4	48 30 56.4	36.4
8	B. D.+44° 326	9	29 28.21	0.09	45.01	1 28 43.29	5.40	353 46 9.42	43.770 .695	6.6	45 5 33.9	35.4
9	B. D.+46° 389	9	30 20.99	0.08	45.01	1 29 36.06	5.47	352 28 9.50	44.150 .050	8.0	46 23 28.2	35.7
10	B. D.+47° 463	9	31 30.97	+0.06	-45.01	1 30 46.02	-5.55	351 2 9.60	46.030 .955	9.6	+47 48 53.4	-36.0
11	B. D.+44° 341	9	33 20.78	+0.09	-45.01	1 32 35.86	-5.45	353 56 9.05	48.590 .500	6.4	+44 54 1.8	-35.1
12	B. D.+41° 321	9	34 31.89	0.12	45.01	1 33 47.00	5.36	356 36 8.48	47.200 .140	3.5	42 14 25.9	34.3
13	B. D.+44° 352	9	36 41.38	0.09	45.01	1 35 56.46	5.50	353 46 9.82	45.850 .795	6.6	45 4 53.5	34.9
14	B. D.+44° 354	9	38 1.60	0.09	45.01	1 37 16.68	5.51	354 2 9.05	43.465 .390	6.3	44 49 39.9	34.7
15	B. D.+43° 364	9	41 6.15	0.10	45.01	1 40 21.24	5.53	354 42 9.75	44.430 .380	5.6	44 9 19.7	34.3
16	B. D.+41° 347	9	42 35.53	+0.12	-45.01	1 41 50.64	-5.46	356 56 10.02	42.310 .235	3.2	+41 55 57.9	-33.5
17	B. D.+41° 352	9	43 45.95	+0.12	-45.01	1 43 1.06	-5.48	356 38 9.55	44.975 .900	3.5	+42 13 7.6	-33.5
18	B. D.+42° 390	9	46 12.41	0.12	45.01	1 45 27.52	5.52	356 38 9.38	43.970 .875	3.6	42 16 40.6	33.3
19	B. D.+41° 364	9	48 0.63	+0.12	45.01	1 47 15.74	5.53	356 48 9.55	45.910 .825	3.3	42 2 49.5	33.1
20	B. D.+54° 415	9	49 59.77	-0.02	45.01	1 49 14.74	6.30	343 46 9.60	43.640 .570	17.8	55 5 47.4	36.2
21	B. D.+41° 374	9	51 18.95	+0.12	45.01	1 50 34.06	5.55	357 26 8.72	46.290 .275	2.7	41 24 41.5	32.0
22	B. D.+38° 392	9	55 37.26	+0.14	-45.01	1 54 52.39	-5.51	359 42 9.58	45.100 .065	0.2	+39 9 2.7	-31.6
23	B. D.+38° 391	9	55 38.96	+0.14	-45.01	1 54 54.09	-5.51	359 42 9.92	48.530 .430	0.2	+39 7 54.2	-31.6
24	γ Andromedæ.....	II	58 36.08	+0.12	-45.04	1 57 .....	....	357 0 9.52	43.695 .515 .650 .455	3.1	+41 51 ....	....
25	B. D.+39° 464	9	0 33.69	0.14	45.01	1 59 48.82	-5.57	359 34 8.32	43.955 .845	0.4	39 17 25.6	-31.2
26	β Trianguli.....	II	4 25.74	0.18	45.02	2 3 .....	....	4 20 9.58	43.880 .730 .860 .680	4.7	34 31 ....	....
27	Eros.....	II	7 18.32	+0.16	-45.01	2 6 33.47	....	1 22 9.35	48.310 .230 .300 .190	1.6	+37 27 58.7	....
28	γ Trianguli.....	II	12 12.31	+0.19	-45.00	2 11 .....	....	5 28 9.80	43.120 .990 .115 .880	5.9	+33 23 ....	....
29	B. D.+37° 589	9	33 0.84	+0.16	-45.01	2 32 15.99	-5.86	1 20 9.08	43.185 .115	1.5	+37 31 37.4	-27.3
30	B. D.+37° 596	9	35 45.11	0.16	45.01	2 35 0.26	5.90	1 2 9.40	46.050 .970	1.2	37 48 42.5	27.1
31	B. D.+39° 613	7	37 5.11	0.14	45.01	2 36 20.24	6.00	359 28 9.50	47. .... .130	0.5	39 22 20.9	27.3
32	B. D.+42° 615	8	37 57.89	0.08	45.01	2 37 12.96	6.16	356 44 9.40	49.120 .100	3.5	42 12 12.6	28.0
33	B. D.+41° 530	9	40 3.41	0.12	45.00	2 39 18.53	6.18	356 44 9.42	46.095 .995	3.4	42 6 46.4	27.7
34	B. D.+43° 574	9	40 52.19	+0.11	-45.00	2 40 7.30	-6.26	355 36 8.32	46.455 .445	C 4.7	+43 21 6.7	-27.9
35	B. D.+43° 579	9	42 34.75	+0.11	-45.00	2 41 49.86	-6.27	355 36 8.35	42.535 .425	A 4.6	+43 12 42.3	-27.7
36	B. D.+43° 580	9	43 26.08	0.10	45.00	2 42 41.18	6.33	354 56 9.85	47.440 .440	5.3	43 54 19.9	27.7
37	B. D.+43° 586	9	44 58.12	0.10	45.00	2 44 13.22	-6.35	354 54 8.32	45.220 .130	5.4	43 57 6.2	-27.6
38	τ Persei.....	II	48 1.90	+0.01	-45.02	2 47 .....	....	346 30 9.68	43. .... .890 .820	14.7	+52 21 ....	....
39	B. D.+42° 650	9	49 18.13	+0.11	-45.00	2 48 33.24	-6.32	356 2 9.68	45.925 .820	4.2	+42 48 48.4	-26.8
Telescope micrometer bisections are made at III and V, except as noted below.												No.
Time.		Barom.	Att. Ther.	Ex. Ther.								Eq. Points.
d h m	in.	°	°									
2 1 22	30.22	31.0	29.8		1, 2, 24, 26, 27, 28.	Bisections at I, II, VI, VII.						I 38 56 4.5
1 52	30.225	30.1	29.4		3.	Bisections at VI, VII.						2 4.0
2 19	30.23	29.7	29.1		4.	Bisections at II, VI, VII.						3 5.2
2 50	30.23	29.0	29.0		5.	Bisections at II, III.						4 5.3
3 18	30.235	28.8	28.5		21, 34.	Bisections at IV, V.						24 4.2
					22.	Bisections at I, III.						26 5.2
					23, 39.	Bisections at V, VII.						28 4.4
					31.	Bisection at VI.						38 5.9
					32, 36.	Bisections at V, VI.						
					38.	Bisections at II, VI.						
Note.												
Jan. 2. Seeing good. Clouds at beginning and thin clouds at times during evening.												
Adopted Equator Point.... 3-39 38° 56' 5".16												

NO.	NAME.	TIDS.	MEAN THREAD.	INST. COR.	CLOCK COR.	APPARENT R. A.	RED. TO 1900.0	CIRCLE READING.	MICROMETER READINGS.	REFR.	APPARENT DECL.	RED. TO 1900.0
1	γ Persei	II	m s 58 25.22	s 0.00	s -44.94	h m s 2 57	s	° ' " 345 44 9.20	r 44.940 .830 .930 .745	" 15.5	° ' " +53 7	"
2	β Persei	II	2 30.78	+0.13	45.00	3 1 .....	....	358 16 9.18	46.460 .320 .440 .245	1.8	40 34 ....	....
3	α Persei	IO	18 2.98	+0.05	-45.05	3 17 .....	....	349 20 9.72	46.655 .495 .625	11.5	+49 30 ....	....

1901 JANUARY 3.

CLAMP EAST.

KING, OBSERVER.

HAMMOND, ASSISTANT.

4	α Cassiopeiæ.....	II	39 58.85	+0.07	-45.21	0 39 .....	....	351 6 9.40	46.075 .065 .855	9.6	+47 44 ....	....
5	γ Cassiopeiæ.....	II	51 30.91	-0.10	45.32	0 50 .....	....	338 40 10.55	45.705 .690 .475	24.2	60 11 ....	....
6	ξ Andromedæ.....	II	17 17.30	+0.09	45.19	1 16 .....	....	353 50 8.95	45.880 .875 .685	6.7	45 0 ....	....
7	δ Cassiopeiæ.....	II	20 7.57	-0.11	-45.21	1 19 .....	....	339 8 10.02	44.495 .480 .270	23.7	+59 43 ....	....
8	B. D. +48° 453	9	25 44.96	+0.05	-45.22	1 24 59.79	-5.48	350 0 9.80	47.905 .865	10.9	+48 50 19.0	-36.7
9	B. D. +48° 454	9	26 16.60	0.05	45.22	1 25 31.43	5.48	350 18 9.88	48.615 .515	10.6	48 32 4.2	36.6
10	B. D. +48° 470	9	29 11.18	0.05	45.22	1 28 26.01	5.55	349 48 10.02	43.570 .545	11.2	49 3 40.7	36.5
11	B. D. +48° 477	9	30 54.01	0.05	45.22	1 30 8.84	5.56	350 8 9.90	48.180 .110	10.7	48 42 12.3	36.3
12	B. D. +44° 337	8	33 11.15	0.09	45.22	1 32 26.02	5.44	353 42 10.20	42.740 .665	6.8	45 9 52.5	35.2
13	B. D. +51° 357	9	34 4.73	+0.01	-45.22	1 33 19.52	-5.77	347 6 10.45	42.240 .175	14.2	+51 46 8.8	-36.8
14	B. D. +53° 375	9	38 16.70	-0.01	-45.22	1 37 31.47	-5.94	345 24 10.42	45.025 .945	16.2	+53 27 17.9	-36.9
15	B. D. +53° 386	9	42 6.09	0.02	45.22	1 41 20.85	6.02	345 24 10.38	43.860 .830	B 16.3	53 30 54.3	36.5
16	B. D. +53° 388	7	42 26.65	0.01	45.22	1 41 41.42	6.02	345 24 10.40	45. ... .010	A 16.1	53 24 1.8	36.5
17	B. D. +53° 395	9	44 2.40	0.02	45.21	1 43 17.17	6.05	345 24 10.50	40.085 .025	A 16.2	53 25 37.6	36.4
18	B. D. +53° 398	8	44 51.89	0.01	45.21	1 44 6.67	6.05	345 34 10.42	40.820 .700	A 16.0	53 15 21.9	36.2
19	B. D. +53° 402	5	46 3.18	-0.02	-45.21	1 45 17.95	-6.08	345 34 10.28	37.380 .260	B 16.1	+53 22 55.6	-36.2
20	B. D. +53° 416	9	48 58.77	-0.02	-45.21	1 48 13.54	-6.14	345 34 10.30	42.370 .310	C 16.1	+53 24 34.6	-35.9
21	B. D. +55° 440	9	50 5.39	0.05	45.21	1 49 20.13	6.30	343 30 9.50	46.640 .550	18.4	55 20 50.1	36.2
22	B. D. +54° 429	9	53 1.80	-0.04	45.21	1 52 16.55	6.33	343 46 9.98	42.180 .075	18.1	55 6 15.0	35.9
23	B. D. +39° 450	9	55 19.39	+0.14	45.21	1 54 34.32	5.50	359 22 9.95	43.740 .690	0.6	39 29 27.1	31.8
24	B. D. +39° 454	9	56 35.79	0.14	45.21	1 55 50.72	5.55	358 40 9.60	43.430 .390	1.4	40 11 34.2	-31.8
25	γ Andromedæ.....	II	58 36.25	+0.12	-45.22	1 57 .....	....	357 0 9.22	43.690 .550 .430 .675	3.2	+41 51 ....	....
26	B. D. +53° 451	9	0 54.75	-0.03	-45.21	2 0 9.51	-6.38	345 4 10.88	45.425 .315	B 16.6	+53 50 23.7	-34.9
27	B. D. +53° 459	9	4 12.54	-0.03	45.21	2 3 27.30	-6.44	345 4 10.90	40.340 .335	B 16.7	53 52 1.4	-34.6
28	β Trianguli	8	4 25.91	+0.19	-45.22	2 3 .....	....	4 20 9.92	43. ... .650	4.8	+34 31 ....	....
29	B. D. +53° 474	9	7 17.87	-0.03	-45.20	2 6 32.64	-6.48	345 4 10.55	40.510 .335	A 16.6	+53 45 30.9	-34.2
30	B. D. +53° 485	8	8 50.10	-0.02	45.20	2 8 4.88	-6.49	345 16 10.48	45.860 .845	16.4	53 35 2.3	-34.0
31	γ Trianguli	II	12 12.52	+0.20	-45.24	2 11 .....	....	5 28 10.58	43.100 .940 .075 .920	6.1	+33 23 ....	....
32	B. D. +49° 741	9	35 10.03	+0.03	-45.19	2 34 24.87	-6.60	349 16 10.08	44.420 .395	11.8	+49 35 26.0	-30.2
33	B. D. +42° 610	9	37 25.95	0.11	45.19	2 36 40.87	6.16	356 16 9.58	43.625 .530	4.0	42 35 33.5	28.2
34	B. D. +40° 577	9	38 12.22	0.13	45.19	2 37 27.16	6.09	357 46 10.22	45.780 .690	2.4	41 4 49.9	27.7
35	B. D. +40° 590	8	40 38.85	0.13	45.19	2 39 53.79	6.11	357 46 10.78	41.825 .790	A 2.3	41 2 51.4	27.4
36	B. D. +45° 660	9	41 25.49	+0.08	-45.19	2 40 40.38	-6.39	353 20 10.48	47.770 .725	7.2	+45 30 15.8	-28.4
37	B. D. +47° 700	9	42 35.55	+0.05	-45.19	2 41 50.41	-6.58	350 48 10.35	46.770 .720	10.0	+48 2 38.0	-28.9
38	B. D. +44° 582	8	43 56.30	0.08	45.19	2 43 11.19	6.39	353 52 10.08	43.120 .050	6.7	44 59 45.2	28.0
39	B. D. +45° 667	9	45 1.06	0.08	45.19	2 44 15.95	6.44	353 10 9.90	48.720 .680	7.4	45 39 58.4	28.0
40	B. D. +47° 720	9	46 29.18	+0.01	-45.19	2 45 44.00	-6.59	351 20 10.22	47.050 .970	9.4	+47 30 32.5	-28.3

Time.	Barom.	Att. Ther.	Ex. Ther.	Telescope micrometer bisections are made at III and V, except as noted below.								No.	Eq. Points.
d h m	in.	°	°										° ' "
3 0 38	30.35	25.4	24.4	I, 2, 3, 4, 5, 6, 7, 25, 31. Bisections at I, II, VI, VII.								1	38 56 6.2
1 20	30.36	24.0	22.8	8, 35. Bisections at I, II.								2	5.1
1 51	30.37	23.2	22.2	13. Bisections at IV, V.								3	4.9
2 25	30.37	23.0	22.0	15, 27, 32. Bisections at I, III.								4	4.5
3 3	30.37	22.1	21.4	16. Bisection at V.								5	3.8
				18. Bisections at V, VII.								6	4.0
				19, 28. Bisections at VI, VII.								7	4.7
				30. Bisections at II, III.								25	4.0
				Note.								28	5.1
				Jan. 3. Stars steady, but diffuse. Sky thick, cutting out faint stars.								31	5.0
				Adopted Equator Point.... 4-40 38° 56' 4".59									

NO.	NAME.	THDS.	MEAN THREAD.		INST. COR.	CLOCK COR.	APPARENT R. A.	RED. TO 1900.0	CIRCLE READING.			MICROMETER READINGS.		REFR.	APPARENT DECL.			RED. TO 1900.0	
			m	s	s	s	h m s	s	° ' "	'	r	r		"	° ' "	"			
1	τ Persei	II	48	2.05	-0.01	-45.17	2 47 .....	....	346 30 10.62	43.000	.615		15.0	+52 21 .....	....				
2	γ Persei	II	58	25.41	-0.02	45.13	2 57 .....	....	345 44 9.82	44. ...	.735		15.8	53 7 .....	....				
3	β Persei	II	2	30.95	+0.13	-45.19	3 1 .....	....	358 16 9.78	46.415	.225		1.8	+40 34 .....	....				
										.395	.210								
1901 JANUARY 4. CLAMP EAST.																			
KING, OBSERVER. HAMMOND, ASSISTANT.																			
4	α Cassiopeiæ	II	39	59.14	+0.13	-45.58	0 39 .....	....	351 6 8.95	46.055	.915		9.3	+47 44 .....	....				
5	γ Cassiopeiæ	II	51	31.15	-0.04	45.65	0 50 .....	....	338 40 9.62	45.700	.590		23.4	60 11 .....	....				
6	ξ Andromedæ	II	17	17.60	+0.16	45.57	1 16 .....	....	353 50 8.95	45.870	.725		6.4	45 0 .....	....				
7	δ Cassiopeiæ	II	20	7.88	-0.03	-45.63	1 19 .....	....	339 8 10.70	44.430	.260		22.9	+59 43 .....	....				
8	B. D.+47° 434 ¹	10	25	42.56	+0.13	-45.61	1 24 57.08	-5.42	350 56 9.92	46.625	.620		9.5	+47 54 40.9	-36.5				
9	B. D.+47° 434 ²	9	25	44.62	0.13	45.61	1 24 59.14	5.42	350 56 10.05	46.025	.985		9.5	47 54 49.6	36.5				
10	B. D.+47° 442	9	27	7.87	0.13	45.61	1 26 22.39	5.44	350 56 10.05	46.100	.070		9.5	47 54 48.7	36.4				
11	B. D.+49° 412	7	28	40.52	0.11	45.61	1 27 55.02	5.54	349 14 10.05	43.610	....		11.4	49 37 40.1	36.7				
12	B. D.+47° 450	6	28	56.41	0.13	45.61	1 28 10.93	5.47	350 56 9.40	45.190	.160		9.5	47 55 5.7	36.2				
13	B. D.+44° 329	9	30	11.26	+0.17	-45.61	1 29 25.82	-5.34	354 26 9.75	44.000	.810		5.8	+44 25 26.6	-35.2				
14	B. D.+47° 460	8	31	11.37	+0.13	-45.61	1 30 25.89	-5.52	350 38 9.95	44.550	.525		9.9	+48 13 18.9	-36.2				
15	B. D.+45° 392	8	32	4.73	0.15	45.61	1 31 19.27	5.44	352 54 9.50	43.740	(.725)		7.4	45 57 32.3	35.5				
16	B. D.+45° 398	6	33	13.33	0.15	45.61	1 32 27.87	5.45	352 54 9.60	39.330	.270	A	7.4	45 55 42.4	35.4				
17	B. D.+45° 416	9	36	13.56	0.15	45.61	1 35 28.10	5.49	352 54 10.22	41.635	.550	A	7.4	45 54 59.1	35.2				
18	B. D.+42° 354	9	37	6.83	0.18	45.61	1 36 21.40	5.37	356 20 9.80	43.665	.600		3.8	42 31 31.2	34.1				
19	B. D.+54° 368	9	38	38.59	+0.06	-45.61	1 37 53.04	-5.99	344 28 9.85	44.055	.020		16.7	+54 23 36.6	-37.1				
20	B. D.+41° 342	9	42	2.09	+0.19	-45.61	1 41 16.67	-5.40	357 8 9.82	47.770	.695		2.9	+41 42 12.0	-33.5				
21	B. D.+42° 388	9	45	54.01	0.18	45.61	1 45 8.58	5.51	355 48 9.55	47.515	.465		4.3	43 2 19.5	33.6				
22	B. D.+39° 421	8	47	16.40	0.21	45.62	1 46 30.99	5.41	358 46 9.12	49.265	.200		1.2	40 3 43.5	32.6				
23	B. D.+40° 394	9	48	8.22	0.20	45.62	1 47 22.80	5.42	358 34 9.50	42.150	.075	A	1.4	40 14 43.9	32.6				
24	B. D.+40° 400	9	49	18.27	+0.20	-45.62	1 48 32.85	-5.45	358 34 9.48	42.225	.150	C	1.6	+40 24 23.3	-32.5				
25	B. D.+40° 412	9	53	11.57	+0.20	-45.62	1 52 26.15	-5.50	358 24 9.48	48.020	.965		1.6	+40 26 6.1	-32.2				
26	B. D.+37° 452	9	55	9.34	0.23	45.62	1 54 23.95	5.43	0 44 9.40	44.275	.230		0.9	38 7 15.4	31.4				
27	B. D.+37° 465	9	57	29.10	0.22	45.62	1 56 43.70	5.45	0 44 9.25	43.730	.675	A	0.9	38 4 13.0	31.1				
28	B. D.+37° 468	9	57	57.22	0.22	45.62	1 57 11.82	-5.46	0 44 9.35	44.530	.435	B	0.8	38 10 24.4	-31.1				
29	γ Andromedæ	10	58	36.53	+0.19	-45.59	1 57 .....	....	357 0 9.25	43. ...	.485		3.1	+41 51 .....	....				
30	B. D.+53° 460	9	4	16.82	+0.07	-45.62	2 3 31.27	-6.38	345 28 10.58	46.480	.470		15.6	+53 22 49.3	-34.5				
31	β Trianguli	II	4	26.23	+0.25	-45.61	2 3 .....	....	4 20 9.92	43. ...	.690		4.6	+34 31 .....	....				
32	6 Persei	II	7	48.91	0.10	45.65	2 7 .....	....	348 14 10.60	46.865	....		12.5	50 36 .....	....				
33	B. D.+52° 549	9	9	20.05	+0.07	-45.62	2 8 34.50	-6.44	345 44 10.00	45.230	.130		15.3	+53 7 13.2	-33.9				
34	Eros	10	12	36.22	+0.24	-45.62	2 11 50.84	....	2 14 9.15	46.860	.710		2.4	+36 36 25.6	....				
35	B. D.+49° 743	9	35	17.23	+0.11	-45.62	2 34 31.72	-6.59	349 8 10.08	49.315	.215		11.5	+49 41 51.0	-30.2				
36	B. D.+51° 618	9	36	31.09	0.09	45.62	2 35 45.56	6.75	347 22 10.20	45.700	.640		13.4	51 29 1.7	30.5				
37	B. D.+51° 620	6	37	30.75	0.08	45.62	2 36 45.21	6.80	346 50 10.12	49.570	.555		14.0	51 59 47.4	30.5				
38	B. D.+50° 617	8	38	16.59	0.10	45.62	2 37 31.07	6.72	348 2 10.08	47.360	.355		12.7	50 48 28.4	30.1				
39	B. D.+51° 626	9	40	45.82	0.09	45.62	2 40 0.29	6.84	347 6 10.48	47.870	.840		13.8	51 47 34.6	30.0				
40	B. D.+51° 628	10	40	58.79	+0.09	-45.62	2 40 13.26	-6.83	347 6 10.50	48.330	.270		13.7	+51 44 10.0	-30.0				
Telescope micrometer bisections are made at III and V, except as noted below.																			
Time.		Barom.	Att. Ther.	Ex. Ther.	No. Eq. Points.														
d h m		in.	°	°	° ' "														
4 0 39		29.98	33.6	34.1	1, 2.	Bisections at II, VI, VII.												1	38 56 4.9
1 20		29.975	32.2	33.7	3, 4, 5, 6, 7, 34.	Bisections at I, II, VI, VII.												2	5.2
1 50		29.98	31.8	32.9	8, 21, 22.	Bisections at I, III.												3	4.7
2 22		29.98	31.4	32.8	9, 13.	Bisections at V, VII.												4	3.9
					10, 14, 15, 16, 40.	Bisections at V, VI.												5	4.1
					11.	Bisection at III.												6	3.4
					12, 29, 31.	Bisections at VI, VII.												7	4.3
					18, 37, 38.	Bisections at IV, V.												29	3.4
					27, 30, 32, 39.	Bisections at I, II.												31	5.0
					Note.													32	3.5
					Jan. 4. Seeing good.														
Adopted Equator Point.... 4-40 38° 56' 4".08																			

Adopted Equator Point.... 4-40 38° 56' 4"/.08

NINE-INCH TRANSIT CIRCLE.

NO.	NAME.	THDS.	MEAN THREAD.	INST. COR.	CLOCK COR.	APPARENT R. A.	RED. TO 1900.0	CIRCLE READING.	MICROMETER READINGS.	REFR.	APPARENT DECL.	RED. TO 1900.0
			m s	s	s	h m s	s	° ' "	r r	"	° ' "	"
1	B. D. +49° 773	7	41 57.45	+0.11	-45.62	2 41 11.94	-6.68	349 14 10.58	46.230 .110	B	11.5 +49 40 3.1	-29.4
2	B. D. +49° 782	9	43 51.15	0.11	45.62	2 43 5.64	6.70	349 14 9.80	47.605 .610		11.4 49 36 22.9	29.2
3	B. D. +45° 665	9	44 52.54	0.16	45.62	2 44 7.08	6.41	353 24 9.02	49.205 .130		6.9 45 25 49.3	28.0
4	B. D. +45° 669	9	45 47.80	0.16	45.62	2 45 2.34	-6.43	353 24 9.12	40.920 .900	C	7.0 45 34 53.3	-28.0
5	γ Persei	10	48 2.40	+0.08	-45.64	2 47 .....	.....	346 30 10.92	43.690 .540		14.4 +52 21 .....	.....
6	B. D. +45° 679	9	50 6.92	0.16	45.63	2 49 21.45	-6.48	353 24 9.78	47.175 .080		6.9 45 26 27.6	-27.4
7	γ Persei	11	58 25.78	0.07	45.61	2 57 .....	.....	345 44 10.62	44.770 .605		15.3 53 7 .....	.....
8	β Persei	11	2 31.31	+0.20	-45.63	3 1 .....	.....	358 16 9.02	46.460 .265		1.7 +40 34 .....	.....
									.455 .210			

KING, OBSERVER.

1901 JANUARY 7.

CLAMP EAST.

HAMMOND, ASSISTANT.

9	γ Andromedæ	11	58 37.98	+0.11	-47.01	1 57 .....	.....	357 0 8.52	43.700 .555		3.0 +41 51 .....	.....
10	β Trianguli	11	4 27.74	0.17	47.09	2 3 .....	.....	4 20 8.72	43.900 .750		4.5 34 31 .....	.....
11	6 Persei	11	7 50.32	0.02	47.04	2 7 .....	.....	348 14 9.50	46.895 .725		12.2 50 36 .....	.....
12	γ Trianguli	11	12 14.32	+0.18	-47.07	2 11 .....	.....	5 28 9.38	43. .... .025		5.7 +33 23 .....	.....
13	B. D. +50° 599	10	34 28.09	+0.01	-47.00	2 33 41.10	-6.64	347 42 8.40	46.085 .120	B	12.8 +51 12 9.3	-30.8
14	B. D. +50° 601	9	34 36.46	0.01	47.00	2 33 49.47	6.64	347 42 8.45	46.290 .240	B	12.8 51 12 4.3	30.8
15	B. D. +50° 613	9	37 33.85	0.01	46.99	2 36 46.87	6.67	347 42 8.70	41.985 .890	A	12.8 51 6 59.4	30.5
16	B. D. +50° 623	9	39 26.74	0.01	46.99	2 38 39.76	6.71	347 42 8.52	41.965 .860		12.8 51 10 14.8	30.3
17	B. D. +50° 630	9	41 59.83	+0.01	-46.98	2 41 12.86	-6.74	247 42 8.50	47.580 .605		12.8 +51 8 27.2	-30.0
18	B. D. +51° 633	9	43 22.00	+0.01	-46.98	2 42 35.03	-6.77	347 42 8.38	50.090 .080	C	12.9 +51 14 5.2	-29.8
19	B. D. +47° 709	9	44 14.80	0.05	46.98	2 43 27.87	6.51	351 4 8.60	43.890 .805	A	9.1 47 44 19.2	28.8
20	B. D. +47° 711	9	44 46.89	0.05	46.98	2 43 59.96	6.53	351 4 8.35	46.890 .765	C	9.3 47 53 1.6	28.8
21	B. D. +48° 782	9	46 32.48	+0.04	46.97	2 45 45.55	-6.64	349 46 9.30	42.935 .915		10.6 49 5 52.1	-28.9
22	γ Persei	11	48 3.82	0.00	-47.03	2 47 .....	.....	346 30 9.25	43. .... .565		14.1 +52 21 .....	.....
23	γ Persei	11	58 27.08	-0.02	46.88	2 57 .....	.....	345 44 8.68	44.850 .740		15.0 53 7 .....	.....
24	β Persei	11	2 32.67	+0.12	-46.95	3 1 .....	.....	358 16 8.62	46.415 .250		1.7 +40 34 .....	.....
									.405 .195			

KING, OBSERVER.

1901 JANUARY 8.

CLAMP EAST.

HAMMOND, ASSISTANT.

25	α Cassiopeiæ	11	40 0.89	-0.12	-47.17	0 39 .....	.....	351 6 8.85	46. .... .900		9.2 +47 44 .....	.....
26	γ Cassiopeiæ	11	51 32.66	-0.20	47.13	0 50 .....	.....	338 40 8.88	45.725 .575		23.1 60 11 .....	.....
27	ξ Andromedæ	11	17 19.21	+0.01	47.12	1 16 .....	.....	353 50 7.55	45.920 .735		6.4 45 0 .....	.....
28	δ Cassiopeiæ	11	20 9.37	-0.19	-47.08	1 19 .....	.....	339 8 8.58	44.515 .360		22.6 +59 43 .....	.....
29	B. D. +46° 370	9	24 58.59	0.00	-47.14	1 24 11.45	-5.26	352 20 7.72	48.485 .445		7.9 +46 30 6.3	-36.1
30	B. D. +50° 297	11	26 34.53	-0.05	47.14	1 25 47.34	5.48	347 52 7.52	45.660 .625	A	12.7 50 55 50.3	-37.2
31	B. D. +50° 300	5	27 41.59	-0.05	-47.14	1 26 54.40	-5.50	347 52 .....	.....		+50 58 .....	.....

Time.

Barom.

Att.
Ther.Ex.
Ther.

Telescope micrometer bisections are made at III and V, except as noted below.

No.

Eq. Points.

d h m

in.

°

°

4 3 1

29.97

31.5

32.2

7 1 55

29.90

42.1

43.1

2 29

29.91

41.5

42.7

3 4

29.92

40.8

41.2

8 0 42

29.93

40.1

39.6

1 20

29.965

39.4

38.9

4, 14, 21.
5, 7, 8, 9, 10, 11, 23, 24, 26, 27, 28.
12.
13, 17, 18, 29.
20.
22, 25.
30.

• Bisections at IV, V.
Bisections at I, II, VI, VII.
Bisections at VI, VII.
Bisections at I, II.
Bisections at V, VII.
Bisections at II, VI, VII.
Bisections at II, III.

Notes.

Jan. 7. Definition fair, but stars exceedingly unsteady.

8. Seeing poor at beginning; steadiness and definition much improved later.

Adopted Equator Point. ... 1- 8 38° 56' 4'' .08
9-24 4 .11
25-31 3 .93

NO.	NAME.	THDS.	MEAN THREAD.	INST. COR.	CLOCK COR.	APPARENT R. A.	RED. TO 1900.0	CIRCLE READING.	MICROMETER. READINGS.	REFR.	APPARENT DECL.	RED. TO 1900.0
			m s	s	s	h m s	s	° ' "	r r		° ' "	"
1	B. D.+45° 376	9	28 53.04	+0.01	-47.14	1 28 5.91	-5.28	353 28 7.98	48.825 .785	C	6.8 +45 28 22.7	-35.5
2	B. D.+45° 383	10	30 8.42	+0.01	47.14	1 29 21.29	5.30	353 28 7.92	46.060 .050	A	6.7 45 19 36.0	35.4
3	B. D.+46° 397	8	31 11.37	-0.01	47.14	1 30 24.22	5.37	352 2 8.18	44.085 .040		8.3 46 49 29.7	35.7
4	B. D.+45° 394		32 17.70	+0.01	47.15	1 31 30.56	5.34	353 24 8.15	44.110 .065		6.8 45 27 26.9	35.3
5	B. D.+43° 337	10	33 32.27	0.03	47.15	1 32 45.15	5.28	355 16 7.08	43.870 .855	B	4.9 43 38 43.7	34.7
6	B. D.+43° 341	6	34 2.85	+0.03	-47.15	1 33 15.73	-5.29	355 16 7.25	44.215 .190	A	4.8 +43 32 7.9	-34.6
7	B. D.+44° 346	9	35 37.80	+0.02	-47.15	1 34 50.67	-5.34	354 34 7.92	45.290 .230		5.6 +44 17 3.9	-34.7
8	B. D.+45° 351	9	36 50.46	0.04	47.15	1 36 3.35	5.28	356 28 7.40	48.240 .140		3.6 42 22 6.2	34.1
9	B. D.+42° 360	9	38 57.72	0.04	47.15	1 38 10.61	5.33	356 6 7.50	46.085 .980		4.0 42 44 47.9	34.0
10	B. D.+42° 373	9	42 17.91	0.04	47.15	1 41 30.80	5.37	356 14 7.00	40.380 .335	A	3.8 42 35 23.8	33.7
11	B. D.+42° 375	9	42 48.30	+0.04	-47.15	1 42 1.19	-5.38	356 14 7.00	45.830 .815	C	4.0 +42 43 18.1	-33.7
12	B. D.+41° 353	9	44 6.83	+0.05	-47.15	1 43 19.73	-5.35	357 28 7.20	43.560 .475	C	2.7 +41 30 1.0	-33.2
13	B. D.+41° 362	8	47 35.69	0.05	47.16	1 46 48.58	5.39	357 28 6.85	40.235 .100	A	2.5 41 21 24.7	32.9
14	B. D.+39° 431	9	49 30.01	0.06	47.16	1 48 42.91	5.37	358 38 7.00	43.405 .360	A	1.3 40 10 23.3	32.4
15	B. D.+39° 434	10	49 45.18	0.06	47.16	1 48 58.08	5.37	358 38 7.05	44.475 .440		1.3 40 13 15.4	32.4
16	B. D.+40° 406	9	52 6.36	+0.06	-47.16	1 51 19.26	-5.41	358 38 7.15	43.360 .280	B	1.4 +40 16 50.9	-32.2
17	B. D.+39° 447	9	53 14.83	+0.06	-47.16	1 52 27.73	5.41	358 46 6.70	39.620 .515	A	1.2 +40 3 35.1	-32.1
18	B. D.+39° 448	9	54 28.78	0.06	47.16	1 53 41.68	5.43	358 46 6.65	44.590 .515		1.2 40 5 14.3	32.0
19	B. D.+38° 402	9	59 35.94	0.07	47.16	1 58 48.85	5.45	359 56 6.98	46.495 .415	B	0.0 38 57 49.2	31.2
20	B. D.+38° 416	8	3 41.66	0.07	47.17	2 2 54.56	-5.50	359 56 7.28	41.615 .550	A	0.0 38 52 56.3	-30.8
21	β Trianguli	11	4 27.84	+0.11	-47.14	2 3	.....	4 20 7.98	43. ... .770		4.6 +34 31	.....
22	6 Persei	11	7 50.41	-0.05	47.09	2 7	.....	348 14 8.38	47.025 .790		12.3 50 36	.....
23	γ Trianguli	11	12 14.50	+0.12	47.20	2 11	.....	5 28 7.90	46.975 .715		5.8 33 23	.....
24	Eros	11	23 53.57	+0.11	47.18	2 23 6.50	.....	3 56 7.52	43.240 .035		4.2 34 53 32.4	.....
25	B. D.+39° 609	9	36 31.06	+0.06	-47.19	2 35 43.93	-5.94	358 46 6.92	49.580 .490		1.2 +40 5 8.6	-27.8
26	B. D.+42° 613	9	37 58.22	0.04	47.19	2 37 11.07	6.10	356 4 7.30	44.875 .795		4.0 42 47 22.5	28.4
27	B. D.+40° 582	9	38 49.45	0.06	47.19	2 38 2.32	6.00	358 10 6.58	44.300 .170		1.8 40 41 23.6	27.7
28	B. D.+40° 589	9	40 22.13	+0.06	-47.19	2 39 35.00	-6.00	358 20 7.50	44.135 .065		1.6 +40 29 48.7	-27.4
29	B. D.+42° 628	9	41 46.65	+0.03	-47.19	2 40 59.49	-6.16	358 20 7.50	49.020 .960		4.2 +42 59 25.0	-28.0
30	B. D.+40° 602	9	42 57.54	0.06	47.19	2 42 10.41	6.04	355 52 7.15	44.165 .085		1.7 40 34 6.9	27.2
31	B. D.+40° 610	9	44 44.87	0.06	47.19	2 43 57.74	6.05	358 24 7.85	43.160 .090	C	1.5 40 24 43.2	26.9
32	B. D.+42° 643	8	46 59.67	+0.04	-47.20	2 46 12.51	-6.18	358 24 8.00	42.255 .190		3.6 +42 21 56.8	-27.2
33	τ Persei	10	48 4.10	-0.07	-47.26	2 47	.....	356 28 7.88	48.735 .720		14.3 +52 21	.....
34	γ Persei	11	58 27.47	-0.08	47.23	2 57	.....	346 30 7.78	43.795 .675		15.1 53 7	.....
35	β Persei	11	2 32.96	+0.06	-47.19	3 1	.....	345 44 8.60	44.805 .685		1.7 +40 34	.....

1901 JANUARY 9.

CLAMP EAST.

HAMMOND, ASSISTANT.

KING, OBSERVER.

36	α Cassiopeiæ	11	40 1.12	-0.05	-47.49	0 39	.....	351 6 8.42	46.175 .995		9.0 +47 44	.....
37	γ Cassiopeiæ	11	51 33.04	0.24	47.51	0 50	.....	351 6 8.42	46.140 .920		22.6 60 11	.....
38	ξ Andromedæ	11	17 19.56	0.02	47.46	1 16	.....	338 40 8.20	45.795 .690		6.2 45 0	.....
39	δ Cassiopeiæ	11	20 9.79	-0.23	-47.49	1 19	.....	353 50 7.55	46.020 .880		22.1 +59 43	.....

Time.	Barom.	Att. Ther.	Ex. Ther.	Telescope micrometer bisections are made at III and V, except as noted below.		No.	Eq. Points.
d h m	in.	°	°				° ' "
8 1 50	29.96	38.8	38.3	1, 4, 5, 11, 15, 19.	Bisections at IV, V.	21	38 56 4.2
2 21	29.95	38.2	37.7	2.	Bisections at II, III.	22	3.7
3 1	29.965	37.9	37.0	3.	Bisections at III, IV.	23	3.9
9 0 38	29.94	52.0	51.4	6.	Bisections at V, VI.	33	4.1
				10, 14, 20, 32.	Bisections at I, II.	34	3.8
				21.	Bisections at II, VI, VII.	35	4.5
				22, 23, 24, 34, 35, 36, 37, 38, 39.	Bisections at I, II, VI, VII.	36	5.4
				33.	Bisections at II, V, VI, VII.	37	5.3
						38	5.4
						39	6.4
Adopted Equator Point....I-35 38° 56' 3".93							

NO.	NAME.	THDS.	MEAN THREAD.	INST. COR.	CLOCK COR.	APPARENT R. A.	RED. TO 1900.0	CIRCLE READING.	MICROMETER READINGS.	REFR.	APPARENT DECL.	RED. TO 1900.0
			m s	s	s	h m s.	s	° ' "	r r	"	° ' "	"
1	B. D. +46° 373	8	25 40.83	-0.04	-47.57	1 24 53.22	-5.28	351 48 8.00	43.645 .640	8.3	+47 3 40.8	-36.2
2	B. D. +50° 297	8	26 34.94	0.09	47.57	1 25 47.28	5.45	347 52 8.45	45.610 .585	12.4	50 55 51.8	37.1
3	B. D. +50° 300	9	27 41.88	0.09	47.57	1 26 54.22	5.47	347 52 8.50	46.850 .815	12.4	50 58 42.8	37.1
4	B. D. +49° 412	9	28 42.49	0.07	47.58	1 27 54.84	5.43	349 14 7.90	43.755 .705	11.0	49 37 40.5	36.6
5	B. D. +45° 379	7	29 26.22	-0.03	-47.58	1 28 38.61	-5.29	352 50 7.72	44.540 .470	7.3	+46 1 21.8	-35.6
6	B. D. +46° 389	9	30 23.53	-0.03	-47.58	1 29 35.92	-5.32	352 28 7.80	44.335 .225	7.6	+46 23 26.6	-35.6
7	B. D. +47° 462	9	31 25.90	0.05	47.58	1 30 38.27	5.39	351 16 8.30	47.770 .735	8.9	47 34 20.9	35.9
8	B. D. +49° 418	4	31 49.55	0.07	47.59	1 31 1.89	5.47	349 24 7.05	47.920 .850	10.8	49 26 19.0	36.4
9	B. D. +44° 335	5	32 58.18	0.01	47.59	1 32 10.58	5.28	354 32 6.82	45.230 .195	5.5	44 19 5.3	34.9
10	B. D. +43° 343	9	34 13.90	-0.01	-47.59	1 33 26.30	-5.28	354 58 7.48	44.810 .800	5.1	+43 53 14.1	-34.7
11	B. D. +44° 347	9	35 40.95	-0.01	-47.60	1 34 53.34	-5.33	354 20 7.58	44.420 .315	5.7	+44 31 23.3	-34.7
12	B. D. +41° 329	4	37 9.48	+0.02	47.60	1 36 21.90	5.24	357 24 ....	....	...	41 26 ....	....
13	B. D. +40° 364	7	41 30.07	+0.02	47.62	1 40 42.47	-5.28	357 50 ....	....	...	41 3 ....	....
14	2 Persei	4	46 41.07	-0.08	47.67	1 45 ....	....	348 34 7.62	41.305	11.7	50 18 ....	....
15	γ Andromedæ	12	58 38.72	+0.01	-47.68	1 57 ....	....	357 0 7.65	43.820 .655	3.0	+41 51 ....	....
16	β Trianguli	7	4 28.44	+0.08	-47.73	2 3 ....	....	4 20 7.45	44.090 .980	4.5	+34 31 ....	....
17	6 Persei	10	7 50.96	-0.09	-47.63	2 7 ....	....	348 14 8.30	47.050 .840	12.1	+50 36 ....	....

KING, OBSERVER.

1901 JANUARY 15.

CLAMP EAST.

HAMMOND, ASSISTANT.

18	α Cassiopeiæ	11	40 2.21	-0.05	-48.71	0 39 ....	....	351 6 7.00	46.250 .115	8.9	+47 44 ....	....
19	γ Cassiopeiæ	11	51 34.10	0.21	48.79	0 50 ....	....	338 40 7.68	45.820 .710	22.2	60 11 ....	....
20	ξ Andromedæ	11	17 20.81	0.02	48.85	1 16 ....	....	353 50 7.45	46.030 .615	6.1	45 0 ....	....
21	δ Cassiopeiæ	11	20 10.91	-0.20	48.84	1 19 ....	....	339 8 8.72	44. ... .375	21.7	+59 43 ....	....
22	B. D. +45° 379	9	29 27.29	-0.03	-48.80	1 28 38.46	-5.17	352 50 7.80	44.570 .545	7.1	+46 1 21.6	-35.4
23	B. D. +49° 416	8	31 0.05	0.08	48.80	1 30 11.17	5.35	348 38 8.52	45.890 .820	11.4	50 12 59.8	36.5
24	B. D. +44° 335	9	32 59.10	-0.02	48.80	1 32 10.28	5.16	354 32 6.78	45.360 .285	5.4	44 19 5.4	34.7
25	B. D. +41° 329	9	37 10.62	+0.01	48.80	1 36 21.83	5.12	357 24 7.28	48.615 .515	2.5	41 25 59.8	33.5
26	B. D. +53° 388	9	42 29.93	-0.11	48.80	1 41 41.02	5.72	345 28 7.98	42.885 .800	14.8	53 24 1.2	36.5
27	B. D. +43° 373	9	44 5.38	-0.01	-48.80	1 43 16.57	-5.28	355 36 6.65	46.200 .115	4.3	+43 14 48.5	-33.6
28	B. D. +53° 402	9	46 6.34	-0.11	-48.80	1 45 17.43	-5.78	345 28 8.48	46.275 .200	14.8	+53 22 55.6	-36.2
29	B. D. +54° 415	9	50 3.36	-0.13	48.80	1 49 14.43	5.96	343 46 7.58	43.765 .675	16.6	55 5 46.6	36.4
30	B. D. +40° 421	9	55 35.45	+0.01	48.80	1 54 46.66	5.35	357 58 7.52	45.130 .100	2.0	40 53 6.9	32.0
31	B. D. +53° 437	9	56 17.72	-0.11	48.80	1 55 28.81	5.98	345 18 7.70	47.340 .240	15.0	53 32 36.5	35.5
32	B. D. +55° 484	9	57 59.15	-0.14	-48.80	1 57 10.21	-6.13	343 34 7.40	43.715 .620	16.8	+55 17 48.1	-35.8
33	β Trianguli	11	4 29.44	+0.06	-48.80	2 3 ....	....	4 20 7.18	44.110 .930	4.4	+34 31 ....	....
34	6 Persei	11	7 52.00	-0.08	-48.83	2 7 ....	....	348 14 7.62	47.130 .875	11.9	+50 36 ....	....
35	B. D. +51° 616	9	36 17.19	-0.09	-48.80	2 35 28.30	-6.55	346 50 8.20	46.430 .330	13.4	+52 0 52.2	-31.2
36	B. D. +51° 620	9	37 33.68	0.09	48.80	2 36 44.79	6.57	346 50 8.22	49.750 .675	13.4	51 59 48.2	31.0
37	B. D. +48° 750	9	39 51.52	0.06	48.80	2 39 2.66	6.35	350 18 6.98	47.035 .940	9.7	48 32 38.0	29.9
38	B. D. +43° 576	9	41 53.85	-0.02	-48.80	2 41 5.03	-6.09	355 0 7.42	43.630 .540	5.0	+43 51 38.2	-28.4

Time.

Barom.

Att.
Ther.Ex.
Ther.

Telescope micrometer bisections are made at III and V, except as noted below.

No.

Eq. Points.

d h m	in.	°	°			
9 1 20	29.95	50.2	49.7	1, 30.	Bisections at I, II.	14
2 6	29.97	48.2	47.7	2, 3, 22.	Bisections at II, III,	15
15 0 37	29.58	52.9	53.3	5, 10.	Bisections at IV, V.	16
1 25	29.59	51.3	52.0	8, 9, 13.	Bisections at VI, VII.	17
1 59	29.59	50.4	51.0	14.	Bisection at I.	18
				15.	Bisections at I, V, VI, VII.	19
				16.	Bisections at I, V.	20
				17.	Bisections at I, IV, VII.	21
				18, 19, 20, 33, 34.	Bisections at I, II, VI, VII.	22
				21.	Bisections at II, VI, VII.	23
				23.	Bisections at III, IV.	

Notes.

Jan. 9. Seeing fairly good, when clouds did not interfere.

15. Thin clouds just at beginning; seeing very good after that.

Adopted Equator Point.... 1-17 38° 56' 5'' .79

18-38 { 1h.040 5.42
2.602 6.20

NO.	NAME.	THDS.	MEAN THREAD.	INST. COR.	CLOCK COR.	APPARENT R. A.	RED. TO 1900.0	CIRCLE READING.	MICROMETER READINGS.	REFR.	APPARENT DECL.	RED. TO 1900.0
			m s	s	s	h m s	s	° ' "	r r	"	° ' "	"
1	B. D. +47° 702	9	43 14.52	-0.04	-48.80	2 42 25.68	-6.31	351 38 7.55	45.785 .695	8.4	+47 13 0.2	-29.2
2	B. D. +46° 644	9	44 29.79	0.04	48.80	2 43 40.95	6.32	351 50 7.25	47.795 .730	8.2	47 0 21.5	29.0
3	B. D. +47° 714	9	45 35.23	0.05	48.80	2 44 46.38	6.40	350 50 7.22	50.260 .175	9.3	48 6 1.5	29.1
4	B. D. +47° 721	8	46 46.34	-0.05	-48.80	2 45 57.49	-6.42	350 50 7.28	45.770 .735	9.2	+48 1 0.7	-29.0
5	τ Persei	11	48 5.53	-0.10	-48.81	2 47 .....	....	346 30 7.60	43. .... .770	13.8	+52 21 .....	....
6	γ Persei	11	58 28.94	-0.11	48.81	2 57 .....	....	345 44 8.18	44.875 .740 .890 .660	14.6	53 7 .....	....
7	β Persei	11	2 34.45	+0.01	-48.74	3 1 .....	....	358 16 7.55	46.570 .370 .560 .330	1.7	+40 34 .....	....

KING, OBSERVER.												1901 JANUARY 16.												CLAMP EAST.												HAMMOND, ASSISTANT.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
8	γ Cassiopeiae	II	51 34.29	-0.24	-48.99	0 50			338 40 7.85	45.940 .770 .920 .685	21.7	+60 11			9	ξ Andromedae	II	17 20.92	0.06	48.93	1 16			353 50 6.80	46.200 .015 .180 .960	6.0	45 0			10	δ Cassiopeiae	II	20 11.01	-0.23	-48.94	1 19			339 8 8.60	44.640 .475 .650 .435	21.3	+59 43			11	B. D. +49° 412	9	28 43.64	-0.11	-48.94	1 27 54.59	-5.27	349 14 6.82	43.975 .890	10.6	+49 37 39.5	-36.4	12	B. D. +49° 416	9	31 0.18	0.11	48.94	1 30 11.13	5.33	348 38 7.75	46.010 .985	11.2	50 12 59.2	36.4	13	B. D. +49° 418	10	31 50.84	0.10	48.94	1 31 1.80	5.32	349 24 7.22	48.015 .930	10.4	49 26 19.5	36.2	14	B. D. +41° 329	9	37 10.89	0.04	48.94	1 36 21.91	-5.10	357 24 6.58	48.860 .815	2.5	41 25 59.0	-33.5	15	ϕ Persei	II	38 17.86	-0.11	-48.93	1 37			348 40 8.12	43.835 .640 .825 .575	11.2	+50 11			16	B. D. +40° 364	9	41 31.21	-0.03	-48.94	1 40 42.24	-5.15	357 46 7.08	49.875 .775	2.1	+41 3 37.7	-33.1	17	B. D. +40° 384	9	46 31.44	0.03	48.94	1 45 42.47	5.22	357 50 6.98	44.590 .460	A 2.0	40 58 4.6	32.7	18	B. D. +40° 390	9	47 43.26	0.03	48.94	1 46 54.29	5.23	357 50 6.90	48.735 .640	2.0	40 59 59.6	32.6	19	B. D. +40° 401	9	49 33.13	-0.03	-48.94	1 48 44.16	-5.26	357 42 7.15	43.975 .880	2.2	+41 9 30.9	-32.5	20	B. D. +39° 457	9	58 39.52	-0.02	-48.93	1 57 50.57	-5.32	359 16 6.50	45.465 .370	0.6	+39 35 1.3	-31.3	21	B. D. +38° 408	9	1 16.86	0.01	48.93	2 0 27.92	5.31	0 26 6.62	42.970 .850	0.5	38 25 49.2	30.7	22	B. D. +37° 488	9	3 48.81	-0.01	48.93	2 2 59.87	-5.33	0 48 7.40	42.840 .790	0.8	38 3 50.0	-30.4	23	β Trianguli	II	4 29.57	+0.01	-48.90	2 3			4 20 7.42	44.035 .955	4.3	+34 31			24	6 Persei	II	7 52.11	-0.12	-48.91	2 7			348 14 7.58	47.240 .045 .230 .980	11.6	+50 36			25	B. D. +39° 613	10	37 9.08	-0.02	-48.92	2 36 20.14	-5.78	359 28 7.32	47.425 .410	0.4	+39 22 23.0	-27.6	26	B. D. +51° 620	8	37 33.94	0.13	48.92	2 36 44.89	6.55	346 50 8.60	49.775 .660	C 13.1	51 59 48.0	31.1	27	B. D. +40° 581	6	38 47.86	0.03	48.92	2 37 58.91	5.85	358 36 6.60	43.555 .530	1.4	40 22 2.0	27.7	28	B. D. +39° 628	9	40 32.91	0.03	48.92	2 39 43.96	5.86	358 36 6.40	45.080 .070	A 1.3	40 11 54.4	27.5	29	B. D. +41° 538	9	41 37.62	0.04	48.92	2 40 48.66	5.96	357 6 6.88	43.200 .210	2.8	41 45 46.6	-27.8	30	B. D. +41° 541	9	42 21.32	+0.04	-48.92	2 41 32.36	-5.95	357 24																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													

Time.	Barom.	Att. Ther.	Ex. Ther.	Telescope micrometer bisections are made at III and V, except as noted below.		No.	Eq. Points.	
d h m	in.	°	°				° ' "	
15 3 3	29.60	48.8	49.1	4, 12, 31.	Bisections at IV, V.	5	38 56 6.8	
16 1 10	29.36	58.0	59.0	5, 23, 27.	Bisections at VI, VII.	6	5.8	
2 0	29.37	56.2	56.9	6, 7, 8, 9, 10, 15, 24, 35, 36, 37.	Bisections at I, II, VI, VII.	7	5.8	
2 29	29.38	55.3	55.9	13.	Bisections at V, VII.	8	7.6	
3 3	29.385	54.1	55.0	14, 32.	Bisections at I, II.	9	7.5	
				22, 25, 29.	Bisections at II, III.	10	8.4	
				26.	Bisections at V, VI.	15	7.8	
				28.	Bisections at III, IV.	23	8.3	
						24	8.2	
						36	8.0	
						37	7.9	
				Note.				
				Jan. 16. Excellent seeing.				
				Adopted Equator Point... 1-7 { 1 ^h .040 38° 56' 5 ^{''} .42				
				2 .602 6 .20				
				8-37 7 .96				

KING, OBSERVER.								1901 JANUARY 18.								CLAMP EAST.								HAMMOND, ASSISTANT.							
NO.	NAME.	THDS.	MEAN THREAD.	INST. COR.	CLOCK COR.	APPARENT R. A.	RED. TO 1900.0	CIRCLE READING.	MICROMETER READINGS.	REFR.	APPARENT DECL.	RED. TO 1900.0																			
			m s	s	s	h m s	s	° ' "	r r		"	"																			
1	ξ Andromedæ.....	11	17 20.89	+0.17	-49.37	1 16		353 50 6.92	46.050 .865 .030 .830		6.5	+45 0																			
2	δ Cassiopeiæ.....	11	20 10.95	+0.02	-49.20	1 19 .....	....	339 8 8.45	44.595 .430 .590 .355	23.1	+59 43 ....	....																			
3	B. D. +46° 393	9	30 53.33	+0.16	-49.23	1 30 4.26	-5.15	352 14 7.42	46.375 .305	8.2	+46 36 47.0	-35.3																			
4	B. D. +46° 404	9	32 7.06	0.16	49.23	1 31 17.99	-5.16	352 24 7.78	46.025 .840	8.1	46 26 54.4	-35.2																			
5	τ Andromedæ.....	11	35 34.50	+0.21	-49.20	1 34 .....	....	358 46 7.18	46.090 .865 .070 .795	1.2	+40 4 ....	....																			
6	φ Persei.....	11	38 17.78	+0.13	-49.14	1 37 .....	....	348 40 8.30	43.725 .590 .715 .505	12.2	+50 11 ....	....																			
7	B. D. +53° 398	3	44 55.35	+0.10	-49.24	1 44 6.21	-5.67	345 36 .....	.....	....	+53 15 ...	....																			
8	B. D. +53° 402		.....	.....	.....	1 45 .....	....	345 28 8.90	46.175 .145	15.7	53 22 55.2	-36.2																			
9	B. D. +54° 417		.....	.....	.....	1 49 .....	....	343 40 8.10	47.650 .610	17.8	55 10 31.2	36.3																			
10	B. D. +41° 377	9	52 3.65	0.20	49.24	1 51 14.61	5.26	357 34 8.30	44.840 .780	2.5	41 17 9.8	32.3																			
11	B. D. +40° 415	9	54 33.38	0.20	49.24	1 53 44.34	5.28	357 58 8.25	47.240 .185	2.1	40 52 23.4	31.9																			
12	B. D. +40° 423	9	56 3.26	+0.20	-49.24	1 55 14.22	-5.30	358 6 7.78	47.915 .830	1.9	+40 44 11.0	-31.8																			
13	B. D. +52° 616	9	36 52.49	+0.10	-49.27	2 36 3.32	-6.58	345 44 7.55	47.665 .650	15.5	+53 6 30.0	-31.5																			
14	B. D. +51° 620	9	37 33.97	0.11	49.27	2 36 44.81	6.50	346 52 8.88	43.465 .365	14.2	51 59 47.6	31.1																			
15	B. D. +43° 574	9	40 55.95	0.18	49.27	2 40 6.86	6.00	355 30 7.60	45.120 .020	4.7	43 21 7.7	28.4																			
16	B. D. +41° 541	9	42 21.43	0.20	49.27	2 41 32.36	5.91	357 24 8.00	44.220 .145	2.7	41 27 22.3	27.6																			
17	B. D. +47° 702	9	43 14.75	0.15	49.27	2 42 25.63	6.25	351 38 8.42	45.690 .660	8.9	47 12 59.1	29.2																			
18	B. D. +47° 711	9	44 48.68	+0.15	-49.27	2 43 59.56	-6.32	350 58 8.38	45.555 .450	9.7	+47 53 3.6	-29.2																			
19	τ Persei.....	11	48 5.69	+0.10	-49.24	2 47 .....	....	346 30 8.78	43.755 .655 .750 .580	14.6	+52 21 ....	....																			
20	Eros.....	11	55 22.51	0.27	49.28	2 54 33.50	....	8 12 8.00	46.745 .630 .720 .625	8.9	30 38 22.6	....																			
21	γ Persei.....	11	58 29.13	0.10	49.28	2 57 .....	....	345 44 8.72	44.805 .700 .820 .625	15.5	53 7 ....	....																			
22	β Persei.....	11	2 34.78	+0.20	-49.31	3 1 .....	....	358 16 7.60	46.485 .305 .450 .260	1.8	+40 34 ....	....																			

KING, OBSERVER.				1901 JANUARY 22.				CLAMP EAST.				HAMMOND, ASSISTANT.			
23	B. D. +53° 398	9	44 57.36	-0.06	-51.22	1 44 6.08	-5.60	345 36 7.98	44.920	.925	15.2	+53 15 21.1	-36.6		
24	2 Persei.....	II	46 44.26	-0.03	-51.21	1 45 .....	.....	348 32 8.12	47.405	.295	12.0	+50 18 .....	.....		
25	γ Andromedæ.....	II	58 41.87	+0.05	-51.12	1 57 .....	.....	357 0 7.75	43.750	.610	3.1	+41 51 .....	.....		
26	β Trianguli.....	II	4 31.77	+0.11	51.30	2 3 .....	.....	4 20 7.58	43.970	.815	4.6	34 31 .....	.....		
27	6 Persei.....	II	7 54.29	-0.03	-51.32	2 7 .....	.....	348 14 8.52	46.985	.835	12.4	+50 36 .....	.....		
28	B. D. +49° 753	9	37 45.58	-0.03	-51.27	2 36 54.28	-6.32	348 40 7.92	46.390	.425	11.9	+50 10 49.4	-31.1		
29	B. D. +48° 746	9	38 19.48	0.01	51.27	2 37 28.20	6.24	350 2 7.85	46.260	.175	10.4	48 48 50.3	30.6		
30	B. D. +48° 752	9	40 33.12	0.01	51.28	2 39 41.83	6.28	349 54 8.50	46.135	.055	10.6	48 56 52.2	30.4		
31	B. D. +48° 760	9	42 23.17	-0.01	-51.28	2 41 31.88	-6.30	350 2 7.65	47.070	.060	10.4	+48 48 35.6	-30.2		
32	B. D. +48° 762	9	42 59.04	-0.01	-51.28	2 42 7.75	-6.31	350 2 7.68	43.520	.435	A 10.4	+48 46 28.3	-30.1		
33	B. D. +48° 763	9	43 25.36	0.01	51.28	2 42 34.07	6.32	350 2 7.80	41.475	.320	B 10.5	48 53 34.2	30.1		
34	B. D. +48° 770	9	45 17.44	0.01	51.28	2 44 26.15	-6.36	349 54 8.78	46.740	.690	10.6	48 56 38.8	29.9		
35	τ Persei.....	II	48 7.84	-0.05	-51.34	2 47 .....	.....	346 30 8.48	43.780	.615	14.3	+52 21 .....	.....		
									.730	.565					

Time.	Barom.	Att. Ther.	Ex. Ther.	Telescope micrometer bisections are made at III and V, except as noted below.										No.	Eq. Points.
d h m	in.	°	°	I, 2, 5, 6, 19, 20, 21, 22, 24, 25, 26, 27, 35.										1	° ' " 38 56 4.2
18 1 15	29.74	26.0	24.7	8, 34.										2	5.2
2 0	29.76	24.8	23.4	13, 23, 28, 31.										5	4.8
2 34	29.775	24.0	22.9	17.										6	5.2
3 8	29.78	23.0	22.3	33.										19	4.5
22 1 30	30.02	40.4	40.0	Notes.										21	4.5
2 3	30.03	39.1	38.9	Jan. 18. Seeing quite unsteady at first, but excellent at end.										22	4.2
2 29	30.03	38.8	38.3	22. Stars somewhat unsteady and not well defined.										24	3.6
3 11	30.03	37.5	37.9	Adopted Equator Point.... I-22 38° 56' 4'' .66										25	3.9
				23-35 3 90										26	4.0
														27	3.9
														35	4.3

NO.	NAME.	THDS.	MEAN THREAD.	INST. COR.	CLOCK COR.	APPARENT R. A.	RED. TO 1900. 0	CIRCLE READING.	MICROMETER READINGS.	REFR.	APPARENT DECL.	RED. TO 1900. 0	
1	γ Persei.....	11	m s 58 31. 21	s -0. 06	s -51. 30	h m s 2 57	s	° ' " 345 44 8. 12	r 44. 815 . 680 . 810 . 615	" 15. 1	° ' " +53 7	"	
2	β Persei.....	10	2 36. 90	0. 07	51. 23	3 1 .....	....	358 16 7. 48	46. 420 . 260 . 410 . 225	1. 7	40 34 ....	....	
3	Eros.....	9	9 2. 71	+0. 14	-51. 30	3 8 11. 55	....	9 52 8. 45	48. 800	10. 5	+28 57 39. 4	....	
1901 JANUARY 29. CLAMP EAST.													
KING, OBSERVER. HAMMOND, ASSISTANT.													
4	2 Persei.....	11	46 48. 17	+0. 06	-55. 39	1 45 .....	....	348 34 8. 32	40. 945 835	12. 0	+50 18 ....	....	
5	γ Andromedæ.....	11	58 45. 88	0. 16	55. 38	1 57 .....	....	357 0 7. 52	43. 685 . 550 . 670 . 495	3. 1	41 51 ....	....	
6	β Trianguli.....	11	4 35. 63	0. 23	55. 40	2 3 .....	....	4 20 7. 98	43. 870 . 690 . 840 . 650	4. 6	34 31 ....	....	
7	6 Persei.....	11	7 58. 09	+0. 05	-55. 38	2 7 .....	....	348 14 8. 50	46. 945 . 755 . 920 . 670	12. 3	+50 36 ....	....	
8	B. D. +50° 613	9	37 41. 92	+0. 04	-55. 41	2 36 46. 55	-6. 17	347 44 7. 78	45. 860 . 770	12. 9	+51 6 59. 5	-30. 8	
9	B. D. +50° 623	9	39 34. 50	0. 04	55. 41	2 38 39. 13	6. 20	347 44 7. 58	45. 695 . 650	13. 0	51 10 15. 8	30. 6	
10	B. D. +50° 630	9	42 7. 72	0. 04	55. 41	2 41 12. 35	6. 24	347 42 7. 92	47. 545 . 480	12. 9	51 8 26. 9	30. 4	
11	B. D. +51° 633	9	43 29. 90	0. 04	55. 41	2 42 34. 53	6. 26	347 36 8. 65	48. 640 . 550	13. 0	51 14 5. 5	30. 3	
12	B. D. +47° 709	9	44 22. 81	+0. 09	-55. 41	2 43 27. 49	-6. 06	351 6 7. 75	47. 765 . 685	9. 2	+47 44 19. 0	-29. 2	
13	τ Persei.....	11	48 11. 69	+0. 02	-55. 45	2 47 .....	....	346 30 8. 32	43. 760 . 595 . 700 . 530	14. 3	+52 21 ....	....	
14	γ Persei.....	11	58 35. 05	0. 01	55. 39	2 57 .....	....	345 44 8. 38	44. 750 . 600 . 730 . 515	15. 1	53 7 ....	....	
15	β Persei.....	11	2 40. 72	+0. 17	-55. 42	3 1 .....	....	358 16 7. 90	46. 440 . 200 . 390 . 140	1. 7	+40 34 ....	....	
Telescope micrometer bisections are made at III and V, except as noted below.													
Time.	Barom.	Att. Ther.	Ex. Ther.									No.	Eq. Points.
d h m	in.	°	°										° ' "
29 1 44	29. 60	35. 0	33. 9	1, 2, 5, 6, 7, 13, 14, 15.	Bisections at I, II, VI, VII.					1	38 56 4. 3		
2 8	29. 60	33. 5	33. 0	3.	Bisection at IV.					2	3. 3		
2 35	29. 60	32. 8	32. 1	4.	Bisections at VI, VII.					4	1. 8		
3 1	29. 605	32. 0	31. 8	12.	Bisections at IV, V.					5	1. 9		
				Note.					6	2. 0			
				Jan. 29. Good seeing.					7	2. 2			
				Adopted Equator Point.... I- 3					13	3. 5			
				4-15 { 1 ^h . 992					14	3. 0			
				2 . 940					15	2. 9			
				38° 56' 3'' .90									
				1 .98									
				3 .13									

RESULTS OF OBSERVATIONS.

B 51

INDIVIDUAL RESULTS

OF

OBSERVATIONS OF EROS REFERENCE STARS.

REDUCED TO 1900.0.

B. D. +49° 399				B. D. +47° 434 ¹				B. D. +50° 297			
1900	h m s	° / //		1900	h m s	° / //		1900	h m s	° / //	
Sept. 24	1 24 0.52	+49 25 30.4		Oct. 21	1 24 51.70	+47 54 4.5		Sept. 19	1 25 41.79	+50 55 13.7	
Oct. 21	0.51	30.8		29	51.80	4.2		23	41.95	14.0	
Dec. 6	0.44	30.6		Nov. 27	51.90	5.3		Oct. 16	41.76	14.4	
28	0.53	30.2		1901				Nov. 21	41.61	14.4	
Mean	1 24 0.50	+49 25 30.5		Jan. 4	51.59	4.6		Dec. 28	41.86	13.8	
B. D. +46° 370				Mean	1 24 51.75	+47 54 4.6		1901			
1900	h m s	° / //		B. D. +49° 403				Jan. 8	41.79	13.3	
Oct. 11	1 24 6.13	+46 29 28.2		1900	h m s	° / //		9	41.76	14.9	
Nov. 12	6.08	28.4		Sept. 23	1 24 52.34	+49 54 48.6		Mean	1 25 41.79	+50 55 14.1	
Dec. 10	6.04	29.0		Oct. 20	52.30	49.4		B. D. +51° 323			
1901				Dec. 5	52.28	48.6		1900	h m s	° / //	
Jan. 8	6.18	30.4		26	52.23	48.9		Sept. 16	1 25 46.75	+51 57 . .	
Mean	1 24 6.11	+46 29 29.0		Mean	1 24 52.29	+49 54 48.9		Oct. 15	46.52	17.9	
B. D. +51° 317				B. D. +47° 434 ²				Nov. 17	46.48	17.8	
1900	h m s	° / //		1900	h m s	° / //		Dec. 19	46.59	17.6	
Sept. 16	1 24 26.38	+51 34 . .		Oct. 21	1 24 53.60	+47 54 12.9		Mean	1 25 46.58	+51 57 17.8	
Oct. 15	26.16	42.1		29	53.70	12.4		B. D. +50° 298			
Nov. 17	26.10	41.5		Nov. 27	53.78	13.3		1900	h m s	° / //	
Dec. 19	26.12	41.9		1901				Sept. 25	1 26 12.88	+50 38 51.8	
Mean	1 24 26.19	+51 34 41.8		Jan. 4	53.65	13.3		Oct. 24	12.74	52.1	
B. D. +47° 429				Mean	1 24 53.68	+47 54 13.0		Nov. 30	12.75	52.6	
1900	h m s	° / //		B. D. +48° 453				Dec. 21	12.68	52.3	
Oct. 9	1 24 33.63	+47 22 51.3		1900	h m s	° / //		Mean	1 26 12.76	+50 38 52.2	
Nov. 5	33.63	50.3		Sept. 25	1 24 54.37	+48 49 42.5		B. D. +47° 442			
Dec. 12	33.43	51.5		Oct. 24	54.42	42.3		1900	h m s	° / //	
1901				Nov. 30	54.33	43.0		Oct. 6	1 26 17.11	+47 54 12.7	
Jan. 2	33.58	51.4		1901				29	16.93	13.3	
Mean	1 24 33.57	+47 22 51.1		Jan. 3	54.28	42.5		Nov. 27	17.02	13.0	
B. D. +49° 401				Mean	1 24 54.35	+48 49 42.6		1901			
1900	h m s	° / //		B. D. +48° 454				Jan. 4	16.89	12.5	
Sept. 19	1 24 37.92	+50 9 7.8		1900	h m s	° / //		Mean	1 26 16.99	+47 54 12.9	
Oct. 19	37.84	6.6		Sept. 26	1 25 25.96	+48 31 27.7		B. D. +50° 299			
Nov. 22	37.89	7.3		Oct. 26	26.07	27.6		1900	h m s	° / //	
Dec. 21	37.76	7.1		Dec. 11	26.00	28.1		Oct. 9	1 26 22.55	+50 18 35.1	
Mean	1 24 37.85	+50 9 7.2		1901				Nov. 5	22.61	34.7	
B. D. +49° 400				Jan. 3	25.89	27.8		Dec. 12	22.65	35.6	
1900	h m s	° / //		Mean	1 25 25.98	+48 31 27.8		26	22.62	34.5	
Sept. 19	1 24 38.49	+50 5 54.4		B. D. +48° 455				Mean	1 26 22.61	+50 18 35.0	
Oct. 19	38.46	56.3		1900	h m s	° / //		B. D. +50° 300			
Dec. 11	38.55	55.8		Sept. 27	1 25	+48 16 16.8		1900	h m s	° / //	
21	38.34	56.4		Oct. 10	26.45	17.6		Sept. 18	1 26 48.68	+50 58 4.1	
Mean	1 24 38.46	+50 5 55.7		27	26.46	17.8		Oct. 16	48.77	4.7	
B. D. +46° 373				Dec. 14	26.27	18.3		Nov. 21	48.82	5.1	
1900	h m s	° / //		1901				Dec. 28	48.80	5.3	
Oct. 10	1 24 48.00	+47 3 4.7		Jan. 2	26.47	18.6		1901			
Nov. 9	47.97	4.4		Mean	1 25 26.41	+48 16 17.8		Jan. 8	48.83	. .	
Dec. 13	47.99	4.5		B. D. +48° 455				9	48.68	5.9	
1901				1900	h m s	° / //		Mean	1 26 48.76	+50 58 5.0	
Jan. 9	47.90	4.8		Sept. 27	1 25	+48 16 16.8					
Mean	1 24 47.96	+47 3 4.6		Oct. 10	26.45	17.6					
				27	26.46	17.8					
				Dec. 14	26.27	18.3					
				1901							
				Jan. 2	26.47	18.6					
				Mean	1 25 26.41	+48 16 17.8					

B. D. +50° 301				B. D. +45° 379				B. D. +48° 477			
1900	h m s	° / "		1900	h m s	° / "		1900	h m s	° / "	
Oct. 9	1 26 59.88	+50 22	2.0	Sept. 19	1 28 33.43	+46 0	45.8	Sept. 25	1 30 3.30	+48 41	35.7
Nov. 5	27 0.01		1.5	Oct. 19	33.31		47.5	Oct. 24	3.16		35.3
Dec. 13	0.07		1.3	Nov. 22	33.08			Nov. 30	3.11		35.7
26	26 59.99		1.6	1901				1901			
Mean	1 26 59.99	+50 22	1.6	Jan. 9	33.26		46.4	Jan. 3	3.23		36.2
				15	33.23		46.4	Mean	1 30 3.20	+48 41	35.7
B. D. +48° 463				Mean	1 28 33.26	+46 0	46.5	B. D. +49° 416			
1900	h m s	° / "						1900	h m s	° / "	
Sept. 26	1 27 16.30	+48 30	19.6					Sept. 23	1 30 5.82	+50 12	23.1
Oct. 26	16.29		18.2	1900	h m s	° / "		Oct. 20	5.72		24.4
Dec. 11	16.24		20.1	Sept. 18	1 28 33.91	+51 38	28.3	Dec. 5	5.77		23.3
1901				Oct. 16	33.77		29.5	26	5.79		24.3
Jan. 2	16.30		20.2	Dec. 19	33.84		29.6	1901			
Mean	1 27 16.28	+48 30	19.5	21	33.85		29.6	Jan. 15	5.76		23.5
				Mean	1 28 33.84	+51 38	29.1	16	5.74		23.0
B. D. +49° 412								Mean	1 30 5.77	+50 12	23.6
1900	h m s	° / "						B. D. +46° 397			
Sept. 24	1 27 49.39	+49 37	3.3	1900	h m s	° / "		1900	h m s	° / "	
Oct. 21	49.27		3.5	Oct. 9	1 28 37.79	+45 4	58.2	Oct. 10	1 30 18.76	+46 48	53.3
1901				Nov. 5	37.82		58.3	Nov. 9	18.66		53.7
Jan. 4	49.42		3.6	Dec. 12	37.82		57.7	Dec. 28	18.79		53.7
9	49.35		4.1	1901				1901			
16	49.26		3.3	Jan. 2	37.83		58.7	Jan. 8	18.82		54.2
Mean	1 27 49.34	+49 37	3.6	Mean	1 28 37.81	+45 4	58.2	Mean	1 30 18.76	+46 48	53.7
B. D. +51° 331								B. D. +47° 460			
1900	h m s	° / "		1900	h m s	° / "		1900	h m s	° / "	
Sept. 26	1 27 58.79	+51 19	13.7	Oct. 10	1 29 15.87	+45 19	1.2	Sept. 27	1 30 20.35	+48 12	43.4
Oct. 26	58.80		14.3	Nov. 9	15.84		1.5	Oct. 27	20.26		43.9
Dec. 19	58.75		13.6	Dec. 13	15.92		0.1	Dec. 14	20.34		43.2
28	58.72		13.6	1901				1901			
Mean	1 27 58.76	+51 19	13.9	Jan. 8	15.93		0.8	Jan. 4	20.35		42.9
B. D. +45° 376				Mean	1 29 15.89	+45 19	0.9	Mean	1 30 20.32	+48 12	43.4
1900	h m s	° / "						B. D. +51° 339			
Oct. 10	1 28 0.40	+45 27	47.7	1900	h m s	° / "		1900	h m s	° / "	
Nov. 9	0.42		47.9	Sept. 27	1 29 20.32	+44 24	52.2	Sept. 26	1 30 24.51	+51 14	16.7
Dec. 13	0.50		46.9	Oct. 27	20.46		51.9	Oct. 26	24.42		15.5
1901				Dec. 14	20.41		51.7	Dec. 11	24.39		16.0
Jan. 8	0.57		47.4	1901				21	24.42		16.3
Mean	1 28 0.47	+45 27	47.5	Jan. 4	20.43		51.6	Mean	1 30 24.44	+51 14	16.1
B. D. +47° 450				Mean	1 29 20.40	+44 24	51.8	B. D. +47° 462			
1900	h m s	° / "						1900	h m s	° / "	
Oct. 6	1 28 5.52	+47 54	30.8	1900	h m s	° / "		Oct. 9	1 30 32.89	+47 33	45.2
29	5.34		30.2	Sept. 18	1 29 22.56	+51 39	8.1	Nov. 5	32.88		43.9
Nov. 27	5.45		31.2	Oct. 16	22.53		8.2	Dec. 12	33.01		45.4
1901				Nov. 21	22.62		8.6	1901			
Jan. 4	5.40		29.7	Dec. 19	22.62		7.9	Jan. 9	32.85		45.2
Mean	1 28 5.43	+47 54	30.5	Mean	1 29 22.58	+51 39	8.2	Mean	1 30 32.91	+47 33	44.9
B. D. +49° 414								B. D. +52° 387			
1900	h m s	° / "		1900	h m s	° / "		1900	h m s	° / "	
Sept. 23	1 28 19.76	+50 1	3.0	Oct. 11	1 29 30.62	+46 22	52.5	Sept. 16	1 30 39.60	+52 35	42.9
Oct. 20	19.66		2.7	Nov. 12	30.47		51.2	Oct. 15	39.32		43.1
Nov. 12	19.63		1.3	1901				Nov. 17	39.39		44.3
Dec. 5	19.66		2.8	Jan. 2	30.54		52.7	Dec. 19	39.54		42.5
26	19.66		2.4	9	30.55		51.2	Mean	1 30 39.46	+52 35	43.2
Mean	1 28 19.67	+50 1	2.4	Mean	1 29 30.54	+46 22	51.9	B. D. +47° 463			
B. D. +48° 470								1900	h m s	° / "	
1900	h m s	° / "		1900	h m s	° / "		Oct. 6	1 30 40.45	+47 48	16.8
Sept. 27	1 28 20.40	+49 3	2.3	Oct. 11	1 29 59.39	+46 36	10.3	29	40.30		17.1
Oct. 27	20.42		3.8	Nov. 12	59.27		12.1	Nov. 27	40.48		17.9
Dec. 14	20.36		4.1	Dec. 10	59.31		10.5	1901			
1901				28	59.39		11.9	Jan. 2	40.44		17.6
Jan. 3	20.42		4.4	1901				Mean	1 30 40.42	+47 48	17.4
Mean	1 28 20.40	+49 3	3.6	Jan. 18	59.08		11.4				
				Mean	1 29 59.29	+46 36	11.4				

B. D. +50° 314				B. D. +44° 337				B. D. +51° 357			
1900	h m s	° ' "		1900	h m s	° ' "		1900	h m s	° ' "	
Sept. 25	1 30 44.74	+50 45 0.2		Oct. 10	1 32 20.63	+45 9 18.2		Sept. 18	1 33 13.80	+51 45 31.8	
Oct. 24	44.64	44 59.4		Nov. 9	20.64	18.3		Oct. 16	13.68	32.6	
Nov. 30	44.60	45 0.6		Dec. 13	20.58	17.4		Nov. 21	13.89	33.3	
Dec. 26	44.80	44 59.2		1901				1901			
Mean	1 30 44.70	+50 44 59.8		Jan. 3	20.54	17.5		Jan. 3	13.71	32.2	
B. D. +49° 418				B. D. +45° 398				B. D. +43° 343			
1900	h m s	° ' "		1900	h m s	° ' "		1900	h m s	° ' "	
Sept. 24	1 30 56.28	+49 25 42.4		Sept. 19	1 32 22.30	+45 55 6.7		Oct. 10	1 33 21.10	+43 52 39.2	
Oct. 21	56.29	43.1		Oct. 19	22.36	7.8		Nov. 9	21.03	39.1	
Dec. 6	56.31	43.8		Nov. 22	22.38	7.5		Dec. 13	21.07	39.1	
1901				1901				1901			
Jan. 9	56.35	42.8		Jan. 4	22.37	7.2		Jan. 9	21.02	39.6	
16	56.41	43.5		Mean	1 32 22.35	+45 55 7.3		Mean	1 33 21.06	+43 52 39.2	
Mean	1 30 56.33	+49 25 43.1		B. D. +44° 341				B. D. +51° 360			
B. D. +51° 344				1900	h m s	° ' "		1900	h m s	° ' "	
1900	h m s	° ' "		Sept. 25	1 32 30.40	+44 53 26.1		Sept. 16	1 33 34.52	+52 8 20.3	
Sept. 16	1 31 9.67	+52 7 15.1		Oct. 24	30.30	26.3		Oct. 15	34.27	21.7	
Oct. 15	9.39	14.8		Nov. 30	30.39	26.8		Nov. 17	34.56	22.2	
Oct. 26	9.52	14.7		1901				Dec. 21	34.48	21.5	
Nov. 17	9.52	16.0		Jan. 2	30.38	26.9		Mean	1 33 34.46	+52 8 21.4	
Dec. 21	9.51	14.9		Mean	1 32 30.37	+44 53 26.5		B. D. +41° 321			
Mean	1 31 9.52	+52 7 15.1		B. D. +52° 393				1900	h m s	° ' "	
B. D. +46° 404				1900	h m s	° ' "		Sept. 27	1 33 41.59	+42 13 51.8	
1900	h m s	° ' "		Sept. 18	1 32 31.82	+52 43 46.4		Oct. 27	41.47	51.0	
Oct. 11	1 31 12.94	+46 26 19.1		Oct. 16	31.71	47.1		Dec. 14	41.43	50.8	
Nov. 12	12.97	17.9		Nov. 21	31.77	48.0		1901			
Dec. 10	12.98	19.0		Dec. 19	31.90	46.3		Jan. 2	41.59	51.8	
28	12.88	18.3		Mean	1 32 31.80	+52 43 47.0		Mean	1 33 41.52	+42 13 51.4	
1901				B. D. +43° 337				B. D. +53° 363			
Jan. 18	12.79	19.4		1900	h m s	° ' "		1900	h m s	° ' "	
Mean	1 31 12.91	+46 26 18.7		Oct. 11	1 32 39.88	+43 38 8.3		Sept. 24	1 33 51.50	+53 21 38.5	
B. D. +45° 392				Nov. 12	39.77	8.8		Oct. 21	51.42	38.7	
1900	h m s	° ' "		Dec. 12	39.87	9.6		Dec. 6	51.56	39.9	
Sept. 19	1 31 13.71	+45 56 57.1		14	39.71	8.7		19	51.69	40.1	
Oct. 19	13.73	57.0		1901				Mean	1 33 51.54	+53 21 39.3	
Nov. 9	13.79	57.5		Jan. 8	39.83	9.2		B. D. +51° 363			
22	13.78	57.2		Mean	1 32 39.81	+43 38 8.9		1900	h m s	° ' "	
1901				B. D. +53° 355				Sept. 26	1 34 2.62	+51 21 27.4	
Jan. 4	13.79	57.0		1900	h m s	° ' "		Oct. 26	2.71	27.5	
Mean	1 31 13.76	+45 56 57.2		Sept. 24	1 33 5.08	+53 37 36.5		Dec. 12	2.64	26.9	
B. D. +45° 394				Oct. 21	5.02	37.0		28	2.61	27.4	
1900	h m s	° ' "		Dec. 6	5.04	37.1		Mean	1 34 2.64	+51 21 27.3	
Oct. 9	1 31 25.10	+45 26 52.7		28	5.10	38.2		B. D. +51° 364			
Nov. 5	25.20	52.6		Mean	1 33 5.06	+53 37 37.2		1900	h m s	° ' "	
Dec. 12	25.27	52.0		B. D. +43° 341				Sept. 16	1 34 10.48	+52 1 23.0	
1901				1900	h m s	° ' "		Oct. 15	10.38	21.3	
Jan. 8	25.17	51.8		Oct. 11	1 33 10.34	+43 31 33.8		Nov. 17	10.42	21.8	
Mean	1 31 25.18	+45 26 52.3		Nov. 12	10.27	33.0		Dec. 21	10.39	21.5	
B. D. +49° 422				Dec. 10	10.27	35.2		Mean	1 34 10.42	+52 1 21.9	
1900	h m s	° ' "		1901				B. D. +44° 346			
Sept. 23	1 31 42.31	+50 5 48.1		Jan. 8	10.38	33.5		1900	h m s	° ' "	
Oct. 20	42.19	49.0		Mean	1 33 10.32	+43 31 33.9		Oct. 6	1 34 45.39	+44 16 29.2	
Dec. 5	42.29	47.7		B. D. +52° 399				29	45.31	29.4	
26	42.28	49.0		1900	h m s	° ' "		Nov. 27	45.34	29.9	
Mean	1 31 42.27	+50 5 48.4		Sept. 23	1 33 13.54	+52 24 26.6		1901			
B. D. +44° 335				Oct. 20	13.42	27.4		Jan. 8	45.27	29.4	
1900	h m s	° ' "		Dec. 5	13.58	26.8		Mean	1 34 45.33	+44 16 29.5	
Oct. 6	1 32 5.23	+44 18 31.1		26	13.69	26.4					
29	5.08	30.7		Mean	1 33 13.56	+52 24 26.8					
Nov. 27	5.21	31.0									
1901											
Jan. 9	5.25	30.6									
15	5.07	30.9									
Mean	1 32 5.17	+44 18 30.9									

B. D. +44° 347				B. D. +45° 422				B. D. +42° 360			
1900	h m s	° / "		1900	h m s	° / "		1900	h m s	° / "	
Sept. 25	1 34 48.13	+44 30	48.0	Oct. 9	1 36 23.95	+45 32	9.8	Sept. 27	1 38 5.38	+42 44	13.5
Oct. 24	48.00		48.1	Nov. 5	24.09		10.1	Oct. 27	5.32		14.0
Nov. 30	47.99		49.4	Dec. 12	23.98		10.6	Dec. 14	5.39		14.3
1901				21	23.95		9.7	1901			
Jan. 9	47.96		48.8	Mean	1 36 23.99	+45 32	10.0	Jan. 8	5.24		14.1
Mean	1 34 48.02	+44 30	48.6					Mean	1 38 5.33	+42 44	14.0
B. D. +45° 416				B. D. +45° 424				B. D. +42° 361			
1900	h m s	° / "		1900	h m s	° / "		1900	h m s	° / "	
Sept. 19	1 35 22.78	+45 54	24.1	Oct. 9	1 37 4.32	+45 26	11.7	Sept. 25	1 38 13.72	+43 8	42.1
Oct. 19	22.83		23.7	Nov. 5	4.45		11.2	Oct. 24	13.67		42.1
Dec. 5	22.69		24.0	Dec. 12	4.32		11.5	Nov. 30	13.73		43.5
1901				21	4.28		11.0	Dec. 28	13.42		42.2
Jan. 4	22.55		24.1	Mean	1 37 4.34	+45 26	11.4	Mean	1 38 13.64	+43 8	42.5
Mean	1 35 22.71	+45 54	24.0								
B. D. +52° 406				B. D. +44° 354				B. D. +52° 433			
1900	h m s	° / "		1900	h m s	° / "		1900	h m s	° / "	
Sept. 18	1 35 23.39	+52 52	13.6	Oct. 10	1 37 11.32	+44 49	5.1	Sept. 24	1 39 43.39	+53 6	22.6
Oct. 15	23.25		14.1	Nov. 9	11.22		5.5	Oct. 21	43.37		22.2
Nov. 17	23.31		16.4	Dec. 13	11.16		5.1	Dec. 6	43.45		23.1
Dec. 19	23.36		14.6	1901				19	43.41		21.9
Mean	1 35 23.33	+52 52	14.7	Jan. 2	11.14		5.4	Mean	1 39 43.40	+53 6	22.4
B. D. +44° 352				B. D. +52° 420				B. D. +43° 364			
1900	h m s	° / "		1900	h m s	° / "		1900	h m s	° / "	
Oct. 10	1 35 50.90	+45 4	19.3	Sept. 23	1 37 17.23	+52 22	54.9	Oct. 6	1 40 15.78	+44 8	45.4
Nov. 9	50.86		15.7	Oct. 20	17.23		55.3	29	15.70		45.5
Dec. 13	50.86		17.6	Dec. 5	17.27		54.6	Nov. 27	15.67		45.4
1901				26	17.27		53.2	1901			
Jan. 2	50.92		18.8	Mean	1 37 17.25	+52 22	54.5	Jan. 2	15.66		45.6
Mean	1 35 50.88	+45 4	17.8					Mean	1 40 15.70	+44 8	45.5
B. D. +42° 351				B. D. +42° 356				B. D. +42° 370			
1900	h m s	° / "		1900	h m s	° / "		1900	h m s	° / "	
Sept. 27	1 35 58.05	+42 21	32.4	Sept. 25	1 37 17.51	+43 12	1.0	Sept. 25	1 40 16.81	+43 12	16.4
Oct. 27	58.08		31.2	Oct. 24	17.43		1.2	Oct. 24	16.78		16.6
Dec. 14	57.96		32.7	Nov. 30	17.43		2.6	Nov. 30	16.76		17.9
1901				Dec. 28	17.46		2.2	Dec. 28	16.73		16.7
Jan. 8	58.01		32.3	Mean	1 37 17.46	+43 12	1.8	Mean	1 40 16.77	+43 12	16.9
Mean	1 35 58.02	+42 21	32.2								
B. D. +42° 352				B. D. +53° 375				B. D. +40° 364			
1900	h m s	° / "		1900	h m s	° / "		1900	h m s	° / "	
Sept. 25	1 36 3.75	+43 8	4.4	Sept. 24	1 37 25.59	+53 26	41.4	Oct. 9	1 40 37.17	+41 3	5.3
Oct. 24	3.76		4.5	Oct. 21	25.67		41.6	Nov. 5	37.23		5.5
Nov. 30	3.84		5.3	Dec. 6	25.56		42.5	Dec. 12	37.10		4.9
Dec. 28	3.67		4.4	1901				1901			
Mean	1 36 3.76	+43 8	4.6	Jan. 3	25.47		41.2	Jan. 9	37.15		....
B. D. +42° 354				Mean	1 37 25.57	+53 26	41.7	16	37.05		4.8
1900	h m s	° / "						Mean	1 40 37.14	+41 3	5.1
Sept. 27	1 36 16.10	+42 30	56.2	B. D. +54° 368				B. D. +41° 342			
Oct. 27	16.01		57.2	1900	h m s	° / "		1900	h m s	° / "	
Dec. 14	15.96		57.6	Sept. 19	1 37 46.99	+54 23	0.6	Oct. 11	1 41 11.43	+41 41	38.5
1901				Oct. 19	47.06		59.6	Nov. 12	11.35		37.5
Jan. 4	15.98		57.3	26	47.10		59.5	Dec. 10	11.30		39.1
Mean	1 36 16.01	+42 30	57.1	Nov. 22	46.90		59.9	1901			
B. D. +41° 329				Jan. 4	47.02		59.7	Jan. 4	11.21		38.7
1900	h m s	° / "		Mean	1 37 47.01	+54 22	59.9	Mean	1 41 11.32	+41 41	38.4
Oct. 11	1 36 16.83	+41 25	26.3	B. D. +52° 424				B. D. +53° 386			
Nov. 12	16.74		25.6	1900	h m s	° / "		1900	h m s	° / "	
Dec. 10	16.73		26.5	Sept. 16	1 37 58.69	+52 41	9.1	Sept. 24	1 41 14.79	+53 30	16.4
1901				Oct. 15	58.56		8.5	Oct. 21	14.65		18.0
Jan. 9	16.61		26.5	Nov. 17	58.45		9.7	Dec. 6	14.91		17.8
15	16.66		25.7	Dec. 26	58.60		8.3	1901			
16	16.76		25.7	Mean	1 37 58.58	+52 41	8.9	Jan. 3	14.79		18.0
Mean	1 36 16.72	+41 25	26.1					Mean	1 41 14.78	+53 30	17.6

B. D. +42° 373				B. D. +43° 373				B. D. +53° 402			
1900	h m s	° / "		1900	h m s	° / "		1900	h m s	° / "	
Sept. 27	1 41 25.44	+42 34	50.6	Sept. 25	1 43 11.36	+43 14	14.8	Sept. 24	1 45 11.82	+53 22	19.4
Oct. 27	25.48		50.3	Oct. 24	11.29		15.3	26	11.77		19.8
Dec. 14	25.29		51.4	Nov. 30	11.30		15.7	Oct. 21	11.70		19.7
1901				Dec. 28	11.06		14.8	29	11.72		19.3
Jan. 8	25.39		50.3	1901				Dec. 6	11.75		19.8
Mean	1 41 25.40	+42 34	50.6	Jan. 15	11.24		15.1	1901			
				Mean	1 43 11.25	+43 14	15.1	Jan. 3	11.82		19.6
B. D. +53° 388								15	11.60		19.6
1900	h m s	° / "						18	[11.39]		19.2
Sept. 24	1 41 35.38	+53 23	27.2					Mean	1 45 11.74	+53 22	19.6
Oct. 21	35.32		25.7								
Dec. 6	35.26		24.8								
1901											
Jan. 3	35.35		25.5								
15	35.25		24.9								
Mean	1 41 35.31	+53 23	25.6								
B. D. +41° 347											
1900	h m s	° / "									
Oct. 10	1 41 45.22	+41 55	....								
Nov. 9	45.22		24.5								
Dec. 13	45.06		24.4								
1901											
Jan. 2	45.13		24.6								
Mean	1 41 45.16	+41 55	24.5								
B. D. +52° 441											
1900	h m s	° / "									
Sept. 16	1 41 53.29	+52 44	59.0								
Oct. 15	53.08		59.3								
Nov. 17	53.00		59.0								
Dec. 26	53.07		58.2								
Mean	1 41 53.11	+52 44	58.9								
B. D. +42° 375											
1900	h m s	° / "									
Sept. 27	1 41 55.76	+42 42	43.3								
Oct. 27	55.79		43.6								
Dec. 14	55.71		44.5								
1901											
Jan. 8	55.75		44.6								
Mean	1 41 55.75	+42 42	44.0								
B. D. +54° 383											
1900	h m s	° / "									
Sept. 18	1 42 39.85	+54 38	38.6								
Oct. 16	39.72		38.7								
Nov. 21	39.71		37.7								
Dec. 19	39.69		37.5								
Mean	1 42 39.74	+54 38	38.1								
B. D. +41° 352											
1900	h m s	° / "									
Sept. 27	1 42 55.65	+42 12	33.1								
Oct. 27	55.43		34.5								
Dec. 14	55.50		33.8								
1901											
Jan. 2	55.52		34.3								
Mean	1 42 55.52	+42 12	33.9								
B. D. +53° 395											
1900	h m s	° / "									
Sept. 24	1 43 11.14	+53 25	0.2								
26	11.17		2.4								
Oct. 21	11.00		1.6								
Dec. 6	11.06		2.3								
1901											
Jan. 3	11.07		1.4								
Mean	1 43 11.09	+53 25	1.6								
B. D. +42° 388											
1900	h m s	° / "									
Sept. 25	1 45 3.22	+43 1	46.4								
Oct. 24	3.13		47.2								
Nov. 30	3.14		47.0								
1901											
Jan. 4	3.03		46.1								
Mean	1 45 3.13	+43 1	46.7								

B. D. +54° 408				B. D. +39° 434				B. D. +53° 428			
1900	h m s	° / "		1900	h m s	° / "		1900	h m s	° / "	
Sept. 23	1 47 11.13	+55 6 16.1		Oct. 6	1 48 52.73	+40 12 43.9		Sept. 26	1 51 36.47	+54 7 12.6	
Oct. 20	11.02	17.1		Oct. 29	52.60	43.9		Oct. 26	36.57	11.5	
Dec. 5	11.06	16.9		Nov. 27	52.76	43.8		Dec. 12	36.50	12.5	
19	11.07	17.6		1901				26	36.66	11.2	
Mean	1 47 11.07	+55 6 16.9		Jan. 8	52.69	43.2		Mean	1 51 36.55	+54 7 12.0	
B. D. +40° 394				B. D. +54° 415				B. D. +54° 429			
1900	h m s	° / "		1900	h m s	° / "		1900	h m s	° / "	
Oct. 6	1 47 17.41	+40 14 11.0		Sept. 23	1 49 8.60	+55 5 11.2		Sept. 23	1 52 10.26	+55 5 40.7	
29	17.30	10.5		Oct. 20	8.41	11.9		Oct. 20	10.17	41.3	
Nov. 27	17.49	11.1		Dec. 5	8.57	11.5		Dec. 5	10.30	40.8	
1901				1901				1901			
Jan. 4	17.37	11.5		Jan. 2	8.40	11.4		Jan. 3	10.18	39.3	
Mean	1 47 17.39	+40 14 11.0		15	8.43	10.4		Mean	1 52 10.23	+55 5 40.5	
B. D. +53° 416				B. D. +55° 440				B. D. +40° 412			
1900	h m s	° / "		1900	h m s	° / "		1900	h m s	° / "	
Sept. 24	1 48 7.55	+53 23 58.7		Sept. 16	1 49 [14.06]	+55 20 13.7		Oct. 10	1 52 20.80	+40 25 34.6	
25	7.60	58.4		Oct. 15	13.71	14.2		Nov. 9	20.69	34.9	
Oct. 21	7.39	59.7		Nov. 17	13.80	14.4		Dec. 13	20.75	34.7	
Dec. 6	7.45	58.9		1901				1901			
1901				Jan. 3	13.79	14.1		Jan. 4	20.60	34.1	
Jan. 3	7.35	58.9		Mean	1 49 13.77	+55 20 14.1		Mean	1 52 20.71	+40 25 34.6	
Mean	1 48 7.47	+53 23 58.9		B. D. +54° 417				B. D. +39° 447			
B. D. +54° 413				1900	h m s	° / "		1900	h m s	° / "	
1900	h m s	° / "		Sept. 23	1 49 32.33	+55 9 54.2		Oct. 6	1 52 22.39	+40 3 4.4	
Sept. 19	1 48 13.26	+54 14 11.5		Oct. 20	32.31	55.5		29	22.27	3.8	
Oct. 19	13.27	11.4		Dec. 5	32.44	55.4		Nov. 27	22.28	4.0	
Nov. 30	13.27	10.6		1901				1901			
Dec. 26	13.30	9.4		Jan. 18	[31.91]	55.1		Jan. 8	22.27	3.2	
Mean	1 48 13.28	+54 14 10.7		Mean	1 49 32.36	+55 9 55.0		Mean	1 52 22.30	+40 3 3.8	
B. D. +53° 419				B. D. +41° 374				B. D. +55° 464			
1900	h m s	° / "		1900	h m s	° / "		1900	h m s	° / "	
Sept. 24	1 48 25.93	+53 41 49.5		Oct. 11	1 50 28.55	+41 24 8.3		Sept. 16	1 52 50.93	+55 17 57.0	
Oct. 26	25.85	48.4		Nov. 12	28.40	8.2		Oct. 15	50.93	56.0	
Dec. 19	25.89	49.9		Dec. 10	28.34	8.9		Nov. 17	50.85	56.9	
21	25.80	48.9		1901				Dec. 21	50.97	56.0	
Mean	1 48 25.87	+53 41 49.2		Jan. 2	28.48	9.7		Mean	1 52 50.92	+55 17 56.5	
B. D. +40° 400				B. D. +41° 377				B. D. +54° 431			
1900	h m s	° / "		1900	h m s	° / "		1900	h m s	° / "	
Oct. 10	1 48 27.55	+40 23 52.0		Oct. 11	1 51 9.64	+41 16 37.8		Sept. 19	1 52 56.31	+54 20 10.2	
Nov. 9	27.45	52.2		Nov. 12	9.58	38.0		Oct. 19	56.36	10.0	
Dec. 13	27.45	52.3		Dec. 10	9.65	39.0		Nov. 30	56.27	8.7	
1901				1901				Dec. 26	56.57	8.5	
Jan. 4	27.35	51.0		Jan. 18	9.30	37.7		Mean	1 52 56.38	+54 20 9.4	
Mean	1 48 27.45	+40 23 51.9		Mean	1 51 9.54	+41 16 38.1		B. D. +39° 448			
B. D. +39° 431				B. D. +54° 424				1900	h m s	° / "	
1900	h m s	° / "		1900	h m s	° / "		Oct. 6	1 53 36.39	+40 4 42.7	
Sept. 27	1 48 37.52	+40 9 49.7		Sept. 18	1 51 13.04	+54 52 52.1		29	36.26	42.6	
Oct. 27	37.55	50.2		Oct. 16	12.98	53.2		Nov. 27	36.36	42.9	
Dec. 14	37.54	51.0		Nov. 21	12.88	52.8		1901			
1901				Dec. 21	12.99	53.1		Jan. 8	36.20	42.5	
Jan. 8	37.51	51.1		Mean	1 51 12.97	+54 52 52.8		Mean	1 53 36.30	+40 4 42.7	
Mean	1 48 37.53	+40 9 50.5		B. D. +40° 406				B. D. +40° 415			
B. D. +40° 401				1900	h m s	° / "		1900	h m s	° / "	
1900	h m s	° / "		Oct. 10	1 51 14.05	+40 16 19.5		Oct. 11	1 53 39.31	+40 51 50.9	
Oct. 9	1 48 39.01	+41 8 58.5		Nov. 9	13.88	19.5		Nov. 12	39.23	51.0	
Nov. 5	39.08	58.3		Dec. 13	13.96	19.5		Dec. 10	39.21	52.7	
Dec. 12	39.14	58.9		1901				1901			
1901				Jan. 8	13.79	18.9		Jan. 18	39.03	51.7	
Jan. 16	38.84	58.6		Mean	1 51 13.92	+40 16 19.4		Mean	1 53 39.20	+40 51 51.6	
Mean	1 48 39.02	+41 8 58.6									

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B. D. +37° 452				B. D. +39° 454				B. D. +54° 452			
1900	h m s	° / //		1900	h m s	° / //		1900	h m s	° / //	
Oct. 10	1 54 18.59	+38 6 44.6		Oct. 6	1 55 45.33	+40 11 3.5		Sept. 19	1 57 57.93	+54 16 33.4	
Nov. 9	18.50	45.4		29	45.17	2.6		Oct. 19	58.01	32.3	
Dec. 13	18.61	45.0		Nov. 27	45.19	2.6		Nov. 22	58.07	34.7	
1901				1901				Dec. 26	58.05	32.6	
Jan. 4	18.49	44.2		Jan. 3	45.12	2.6		Mean	1 57 58.02	+54 16 33.2	
Mean	1 54 18.55	+38 6 44.8		Mean	1 55 45.20	+40 11 2.8		B. D. +54° 453			
B. D. +39° 450				B. D. +54° 444				1900	h m s	° / //	
1900	h m s	° / //		1900	h m s	° / //		Sept. 23	1 58 18.04	+55 8 35.4	
Oct. 9	1 54 28.82	+39 28 55.7		Sept. 18	1 56 26.97	+54 44 59.3		Oct. 20	17.93	36.6	
Nov. 5	28.78	55.8		Oct. 16	26.82	59.8		Dec. 5	17.96	36.1	
Dec. 12	28.73	56.0		Nov. 21	27.01	45 0.2		21	17.97	35.5	
1901				Dec. 19	26.91	0.9		Mean	1 58 17.98	+55 8 35.9	
Jan. 3	28.78	55.5		Mean	1 56 26.93	+54 45 0.0		B. D. +38° 402			
Mean	1 54 28.78	+39 28 55.8		B. D. +37° 465				1900	h m s	° / //	
B. D. +40° 421				1900	h m s	° / //		Oct. 9	1 58 43.38	+38 57 18.3	
1900	h m s	° / //		Oct. 10	1 56 38.21	+38 3 42.5		Nov. 5	43.41	18.0	
Oct. 11	1 54 41.38	+40 52 34.2		Nov. 9	38.14	42.0		Dec. 12	43.42	19.3	
Nov. 12	41.22	34.6		Dec. 13	38.17	42.0		1901			
Dec. 10	41.28	35.8		1901				Jan. 8	43.36	18.2	
1901				Jan. 4	38.21	42.1		Mean	1 58 43.39	+38 57 18.4	
Jan. 15	41.28	35.1		Mean	1 56 38.18	+38 3 42.2		B. D. +54° 457			
Mean	1 54 41.29	+40 52 34.9		B. D. +53° 440				1900	h m s	° / //	
B. D. +38° 392				1900	h m s	° / //		Sept. 19	1 59 8.45	+54 26 55.4	
1900	h m s	° / //		Sept. 19	1 56 44.93	+54 12 43.1		Oct. 19	8.44		
Oct. 19	1 54 46.77	+39 8 29.0		Oct. 19	45.02	42.8		Nov. 22	8.47	56.2	
27	46.88	28.7		Nov. 22	44.91	43.1		Dec. 28	8.34	55.5	
Dec. 14	46.83	30.2		Dec. 26	45.11	42.2		Mean	1 59 8.42	+54 26 55.7	
1901				Mean	1 56 44.99	+54 12 42.8		B. D. +39° 464			
Jan. 2	46.84	31.3		B. D. +55° 484				1900	h m s	° / //	
Mean	1 54 46.83	+39 8 29.8		1900	h m s	° / //		Oct. 11	1 59 43.30	+39 16 51.4	
B. D. +38° 391				Sept. 16	1 57 4.19	+55 17 13.8		Nov. 12	43.34	52.1	
1900	h m s	° / //		Oct. 15	4.14	13.6		Dec. 10	43.29	52.5	
Sept. 27	1 54 48.41	+39 7 20.4		Dec. 5	4.11	12.0		1901			
Oct. 27	48.52	21.1		21	4.09	12.0		Jan. 2	43.21	54.6	
Dec. 14	48.51	21.7		1901				Mean	1 59 43.28	+39 16 52.6	
1901				Jan. 15	4.03	12.5		B. D. +53° 451			
Jan. 2	48.52	22.8		Mean	1 57 4.11	+55 17 12.8		1900	h m s	° / //	
Mean	1 54 48.49	+39 7 21.5		B. D. +37° 468				Sept. 26	2 0 3.09	+53 49 49.0	
B. D. +40° 423				1900	h m s	° / //		Oct. 26	3.13	48.4	
1900	h m s	° / //		Oct. 10	1 57 6.51	+38 9 52.9		Dec. 12	3.10	49.0	
Sept. 25	1 55 9.18	+40 43 39.8		Nov. 11	6.29	52.6		1901			
Oct. 24	9.11	40.0		Dec. 13	6.32	53.0		Jan. 3	3.08	49.0	
Nov. 30	9.08	40.0		1901				Mean	2 0 3.10	+53 49 48.8	
1901				Jan. 4	6.31	53.5		B. D. +38° 408			
Jan. 18	8.89	39.4		Mean	1 57 6.31	+38 9 53.0		1900	h m s	° / //	
Mean	1 55 9.06	+40 43 39.8		B. D. +54° 448				Oct. 11	2 0 22.70	+38 25 18.8	
B. D. +53° 437				1900	h m s	° / //		Nov. 12	22.73	18.1	
1900	h m s	° / //		Sept. 18	1 57 6.41	+54 38 21.8		Dec. 10	22.55	18.2	
Sept. 24	1 55 22.72	+53 32 0.9		Oct. 16	6.34	20.7		1901			
Oct. 21	22.64	0.7		Nov. 21	6.49	21.2		Jan. 16	22.56	18.7	
Dec. 6	22.71	1.7		Dec. 28	6.39	21.3		Mean	2 0 22.64	+38 25 18.4	
28	22.59	0.6		Mean	1 57 6.41	+54 38 21.2		B. D. +39° 468			
1901				B. D. +39° 457				1900	h m s	° / //	
Jan. 15	22.77	1.2		1900	h m s	° / //		Oct. 6	2 0 30.37	+40 7 15.3	
Mean	1 55 22.69	+53 32 1.0		Oct. 9	1 57 45.27	+39 34 30.0		29	30.34	15.4	
B. D. +53° 439				Nov. 5	45.29	30.3		Nov. 27	30.36	15.2	
1900	h m s	° / //		Dec. 12	45.26	31.4		1901			
Sept. 26	1 55 38.45	+54 0 16.2		1901				Jan. 1	30.34	16.2	
Oct. 26	38.34	15.2		Jan. 16	45.19	30.2		Mean	2 0 30.35	+40 7 15.5	
Dec. 12	38.39	15.2		Mean	1 57 45.25	+39 34 30.5					
21	38.36	15.0									
Mean	1 55 38.38	+54 0 15.4									

B. D. +53° 453							B. D. +54° 470							B. D. +54° 497						
1900	h	m	s	°	'	''	1900	h	m	s	°	'	''	1900	h	m	s	°	'	''
Sept. 19	2	1	36.51	+54	7	38.0	Sept. 18	2	3	28.00	+54	49	6.2	Sept. 23	2	8	17.20	+54	37	13.6
Oct. 19			36.57			38.3	Oct. 16			27.96			7.2	Oct. 20			17.23			14.7
Nov. 22			36.60			38.4	Nov. 21			27.90			7.0	Dec. 5			17.27			13.9
Dec. 21			36.48			37.0	Dec. 26			27.81			5.9	26			17.21			12.5
Mean	2	1	36.54	+54	7	37.9	Mean	2	3	27.92	+54	49	6.6	Mean	2	8	17.23	+54	37	13.7
B. D. +37° 486							B. D. +53° 470							B. D. +52° 549						
1900	h	m	s	°	'	''	1900	h	m	s	°	'	''	1900	h	m	s	°	'	''
Oct. 11	2	2	27.13	+37	23	5.4	Sept. 19	2	4	59.80	+54	4	47.6	Sept. 25	2	8	28.16	+53	6	39.4
Nov. 12			27.06			5.0	Oct. 19			59.70			46.7	Oct. 24			28.14			39.5
Dec. 10			27.08			5.6	Nov. 27			59.73				Nov. 30			28.04			39.4
1901							30			59.58			47.1	1901						
Jan. 1			27.09			4.5	Dec. 19			59.74			46.9	Jan. 4			28.01			39.5
Mean	2	2	27.09	+37	23	5.1	Mean	2	4	59.71	+54	4	47.1	Mean	2	8	28.09	+53	6	39.4
B. D. +55° 527							B. D. +54° 483							B. D. +54° 500						
1900	h	m	s	°	'	''	1900	h	m	s	°	'	''	1900	h	m	s	°	'	''
Sept. 16	2	2	[48.52]	+55	22	44.4	Sept. 23	2	6	11.47	+54	38	27.6	Sept. 16	2	8	34.38	+55	7	42.1
Oct. 15			48.16			46.6	Oct. 20			11.50			28.2	Oct. 15			34.36			42.8
Dec. 5			48.27			44.9	Dec. 5			11.52			27.4	Dec. 10			34.49			42.3
21			48.21			45.9	26			11.52			25.9	21			34.45			41.4
Mean	2	2	48.21	+55	22	45.4	Mean	2	6	11.50	+54	38	27.3	Mean	2	8	34.42	+55	7	42.2
B. D. +38° 416							B. D. +53° 474							B. D. +53° 494						
1900	h	m	s	°	'	''	1900	h	m	s	°	'	''	1900	h	m	s	°	'	''
Oct. 9	2	2	49.09	+38	52	24.8	Sept. 26	2	6	26.25	+53	44	57.5	Sept. 19	2	11	7.05	+54	0	3.0
Nov. 5			49.16			25.4	Oct. 26			26.17			57.0	Oct. 19			7.00			3.4
Dec. 12			49.13			26.1	Dec. 12			26.15			57.5	Nov. 22			6.95			3.0
1901							1901							Dec. 21			6.90			2.3
Jan. 8			49.03			25.7	Jan. 3			26.11			56.9	Mean	2	11	6.98	+54	0	2.9
Mean	2	2	49.10	+38	52	25.5	Mean	2	6	26.17	+53	44	57.2	Mean	2	11	6.98	+54	0	2.9
B. D. +37° 488							B. D. +54° 494							B. D. +53° 497						
1900	h	m	s	°	'	''	1900	h	m	s	°	'	''	1900	h	m	s	°	'	''
Oct. 10	2	2	54.54	+38	3		Sept. 18	2	7	42.14	+54	50	55.8	Sept. 26	2	11	34.99	+53	48	59.8
Nov. 4			54.53			19.4	Oct. 16			42.14			56.5	Oct. 26			34.94			48 59.6
9			54.46			19.5	Nov. 21			42.11			56.6	Dec. 12			34.81			49 0.6
Dec. 13			54.39			20.0	1901							26			34.95			48 59.8
1901							Jan. 1			42.38			57.0	Mean	2	11	34.92	+53	49	0.0
Jan. 16			54.49			19.8	Mean	2	7	42.19	+54	50	56.5	Mean	2	11	34.92	+53	49	0.0
Mean	2	2	54.48	+38	3	19.7	Mean	2	7	42.19	+54	50	56.5	Mean	2	11	34.92	+53	49	0.0
B. D. +54° 469							B. D. +53° 485							B. D. +54° 511						
1900	h	m	s	°	'	''	1900	h	m	s	°	'	''	1900	h	m	s	°	'	''
Sept. 23	2	3	9.38	+55	0	47.9	Sept. 24	2	7	58.46	+53	34	28.3	Sept. 16	2	11	35.83	+55	4	40.5
Oct. 20			9.24			49.2	Oct. 21			58.26			27.6	Oct. 15			35.74			40.8
Dec. 5			9.22			47.3	Dec. 6			58.35			28.5	Dec. 5			35.75			41.8
19			9.21			48.9	1901							19			35.80			41.3
Mean	2	3	9.26	+55	0	48.3	Jan. 3			58.34			28.5	Mean	2	11	35.78	+55	4	41.1
B. D. +53° 459							B. D. +53° 486							B. D. +52° 563						
1900	h	m	s	°	'	''	1900	h	m	s	°	'	''	1900	h	m	s	°	'	''
Sept. 26	2	3	20.99	+53	51	27.5	Sept. 19	2	8	4.93	+54	3	51.8	Sept. 25	2	12	6.14	+53	6	50.2
Oct. 26			21.07			27.8	Oct. 19			4.96			51.6	Oct. 24			6.12			51.4
Dec. 12			20.90			28.2	Nov. 22			4.83			51.3	Nov. 30			6.00			51.5
1901							Dec. 19			5.03			51.6	Dec. 21			6.12			50.8
Jan. 3			20.81			27.0	Mean	2	8	4.94	+54	3	51.6	Mean	2	12	6.10	+53	6	51.0
Mean	2	3	20.94	+53	51	27.6	Mean	2	8	4.94	+54	3	51.6	Mean	2	12	6.10	+53	6	51.0
B. D. +53° 460							B. D. +55° 551							B. D. +54° 525						
1900	h	m	s	°	'	''	1900	h	m	s	°	'	''	1900	h	m	s	°	'	''
Sept. 25	2	3	24.92	+53	22	14.5	Sept. 16	2	8	6.41	+55	16	48.7	Sept. 18	2	14	4.08	+54	56	54.4
Oct. 24			24.98			14.4	Oct. 15			6.32			47.9	Oct. 16			4.06			55.2
Nov. 30			24.90			14.9	Dec. 10			6.32			47.7	Nov. 21			4.14			56.0
1901							21			6.46			47.6	Dec. 19			4.05			55.2
Jan. 4			24.88			15.0	Mean	2	8	6.38	+55	16	48.0	Mean	2	14	4.08	+54	56	55.2
Mean	2	3	24.92	+53	22	14.7	Mean	2	8	6.38	+55	16	48.0	Mean	2	14	4.08	+54	56	55.2

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B. D. +53° 507				B. D. +53° 525				B. D. +52° 592			
1900	h m s	° ' "		1900	h m s	° ' "		1900	h m s	° ' "	
Sept. 19	2 14 20.20	+54 3 3.7		Sept. 24	2 19 30.37	+53 40 27.3		Sept. 25	2 25 3.16	+52 23 28.1	
Oct. 19	20.17	4.5		Oct. 21	30.35	27.2		Oct. 24	3.23	28.6	
Nov. 22	20.22	3.6		Dec. 6	30.20	26.9		Nov. 30	3.10	28.9	
Dec. 21	20.14	3.6		21	30.33	26.5		Dec. 21	3.24	27.0	
Mean	2 14 20.18	+54 3 3.8		Mean	2 19 30.31	+53 40 27.0		Mean	2 25 3.18	+52 23 28.2	
B. D. +53° 513				B. D. +52° 581				B. D. +53° 539			
1900	h m s	° ' "		1900	h m s	° ' "		1900	h m s	° ' "	
Sept. 26	2 14 54.61	+53 47 27.0		Sept. 16	2 20 30.58	+53 2 58.6		Sept. 26	2 25 30.07	+53 51 59.9	
Oct. 26	54.64	26.6		Oct. 15	30.54	59.4		Oct. 29	29.99	52 0.1	
Dec. 12	54.61	27.5		Dec. 5	30.67	59.0		Dec. 12	30.18	0.3	
26	54.65	25.7		19	30.62	59.3		19	30.21	1.0	
Mean	2 14 54.63	+53 47 26.7		Mean	2 20 30.60	+53 2 59.1		Mean	2 25 30.11	+53 52 0.3	
B. D. +54° 530				B. D. +54° 554				B. D. +53° 540			
1900	h m s	° ' "		1900	h m s	° ' "		1900	h m s	° ' "	
Sept. 23	2 15 44.14	+54 37 20.2		Sept. 23	2 21 . . .	+54 31 35.9		Sept. 18	2 25 49.37	+53 32 5.8	
Oct. 20	44.14	22.7		24	46.84	35.7		Oct. 16	49.24	5.2	
Dec. 5	44.15	21.9		Oct. 20	46.80	35.5		Dec. 5	49.37	6.4	
21	44.25	21.7		Dec. 5	46.82	35.4		21	49.38	6.0	
Mean	2 15 44.17	+54 37 21.6		Dec. 26	46.75	35.8		Mean	2 25 49.34	+53 32 5.8	
B. D. +54° 535				Mean	2 21 46.80	+54 31 35.7		B. D. +53° 541			
1900	h m s	° ' "		B. D. +52° 585				1900	h m s	° ' "	
Sept. 18	2 16 54.37	+54 54 34.4		1900	h m s	° ' "		Sept. 19	2 25 55.86	+54 6 7.5	
Oct. 16	54.23	33.6		Sept. 18	2 21 54.91	+53 5 35.8		Oct. 19	55.83	8.7	
Nov. 21	54.27	34.4		Oct. 15	54.87	37.1		Nov. 22	55.91	8.0	
Dec. 19	54.35	33.7		Dec. 6	54.81	36.7		Dec. 26	55.94	8.5	
Mean	2 16 54.30	+54 54 34.0		19	54.89	36.9		Mean	2 25 55.88	+54 6 8.2	
B. D. +53° 519				Mean	2 21 54.87	+53 5 36.6		B. D. +52° 595			
1900	h m s	° ' "		B. D. +52° 587				1900	h m s	° ' "	
Sept. 26	2 17 20.22	+53 44 10.2		1900	h m s	° ' "		Sept. 25	2 27 16.91	+52 23 25.6	
Oct. 26	20.28	10.6		Sept. 27	2 22 52.48	+52 36 53.0		Oct. 24	16.86	26.7	
Dec. 12	20.18	10.2		Oct. 29	52.59	52.9		Nov. 30	16.81	26.4	
26	20.21	8.3		Dec. 14	52.46	51.9		Dec. 21	16.86	25.6	
Mean	2 17 20.22	+53 44 9.8		21	52.51	52.8		Mean	2 27 16.86	+52 23 26.1	
B. D. +53° 521				Mean	2 22 52.51	+52 36 52.6		B. D. +52° 597			
1900	h m s	° ' "		B. D. +53° 532				1900	h m s	° ' "	
Sept. 27	2 17 28.78	+53 19 11.0		1900	h m s	° ' "		Sept. 16	2 27 23.21	+52 57 52.6	
Oct. 27	28.91	11.5		Sept. 18	2 23 5.40	+53 24 22.0		Oct. 15	23.13	54.5	
Dec. 14	28.79	11.3		Oct. 16	5.31	20.7		Dec. 5	23.09	54.0	
21	28.94	11.2		Dec. 5	5.44	20.5		19	23.07	54.2	
Mean	2 17 28.86	+53 19 11.2		26	5.32	18.9		Mean	2 27 23.12	+52 57 53.8	
B. D. +52° 576				Mean	2 23 5.37	+53 24 20.5		B. D. +51° 594			
1900	h m s	° ' "		B. D. +54° 565				1900	h m s	° ' "	
Sept. 16	2 17 35.51	+52 59 36.3		1900	h m s	° ' "		Sept. 27	2 27 39.60	+51 31 56.7	
Oct. 15	35.39	35.9		Sept. 23	2 24 . . .	+54 27 4.7		Oct. 27	39.75	57.9	
Dec. 5	35.42	36.6		24	32.73	4.3		Dec. 14	39.74	57.1	
19	35.45	37.0		Oct. 20	32.70	5.0		26	39.82	57.0	
Mean	2 17 35.44	+52 59 36.4		Dec. 5	32.82	4.1		Mean	2 27 39.73	+51 31 57.2	
B. D. +54° 539				Mean	2 24 32.76	+54 27 4.4		B. D. +50° 587			
1900	h m s	° ' "		B. D. +51° 587				1900	h m s	° ' "	
Sept. 18	2 18 15.12	+54 48 4.5		1900	h m s	° ' "		Oct. 6	2 28 23.88	+50 45 2.5	
Oct. 16	15.13	3.6		Sept. 27	2 24 57.54	+51 51 46.3		29	23.92	2.1	
Nov. 21	15.18	4.4		Nov. 9	57.63	44.7		Nov. 27	23.76	2.4	
Dec. 26	15.22	3.3		Dec. 14	57.62	47.2		Dec. 26	23.96	2.2	
Mean	2 18 15.16	+54 48 4.0		26	57.62	46.3		Mean	2 28 23.88	+50 45 2.3	
B. D. +52° 580				Mean	2 24 57.60	+51 51 46.1		B. D. +53° 546			
1900	h m s	° ' "		B. D. +51° 587				1900	h m s	° ' "	
Sept. 16	2 19 3.18	+52 55 1.7		1900	h m s	° ' "		Sept. 18	2 28 31.97	+53 14 56.7	
Oct. 15	3.19	1.8		Sept. 27	2 24 57.54	+51 51 46.3		Oct. 16	31.96	57.5	
Dec. 5	3.27	1.7		Nov. 9	57.63	44.7		Dec. 5	31.94	57.6	
19	3.26	2.0		Dec. 14	57.62	47.2		21	31.90	56.3	
Mean	2 19 3.22	+52 55 1.8		26	57.62	46.3		Mean	2 28 31.94	+53 14 57.0	

B. D. +53° 547						B. D. +52° 609						B. D. +39° 609								
1900	h	m	s	°	'	''	1900	h	m	s	°	'	''	1900	h	m	s	°	'	''
Sept. 26	2	28	34.72	+53	52	42.6	Sept. 25	2	33	23.89	+52	22	22.8	Oct. 11	2	35	37.93	+40	4	41.7
Oct. 26			34.77			42.2	Oct. 24			23.97			23.7	Nov. 12			37.87			41.7
Dec. 12			34.67			42.9	Nov. 30			23.84			23.9	Dec. 10			37.89			42.6
19			34.82			42.9	Dec. 19			24.00			23.8	1901						
Mean	2	28	34.74	+53	52	42.6	Mean	2	33	23.92	+52	22	23.6	Jan. 8			37.93			41.0
B. D. +51° 598						B. D. +50° 599						B. D. +40° 570								
1900	h	m	s	°	'	''	1900	h	m	s	°	'	''	1900	h	m	s	°	'	''
Sept. 19	2	29	15.68	+52	2	59.5	Oct. 15	2	33	34.35	+51	11	38.7	Sept. 24	2	35	38.45	+40	57	57.6
Oct. 19			15.64			59.2	16			34.35			39.3	Oct. 21			38.39			58.4
Nov. 22			15.57			59.0	Dec. 10			34.23			39.1	Nov. 11			38.33			57.3
Dec. 21			15.72			59.5	1901							Dec. 6			38.41			58.7
Mean	2	29	15.65	+52	2	59.3	Jan. 7			34.41			38.7	28			38.41			58.2
B. D. +51° 599						B. D. +50° 601						B. D. +51° 618								
1900	h	m	s	°	'	''	1900	h	m	s	°	'	''	1900	h	m	s	°	'	''
Sept. 27	2	29	55.70	+51	31	28.3	Sept. 16	2	33	42.83	+51	11	34.5	Sept. 27	2	35	38.82	+51	28	31.4
Oct. 27			55.85			27.8	Oct. 15			42.71			34.3	Oct. 27			38.90			30.7
Dec. 14			55.79			29.2	Dec. 10			42.62			35.4	Dec. 14			38.77			31.5
26			55.85			28.0	1901							1901						
Mean	2	29	55.80	+51	31	28.3	Jan. 7			42.78			33.7	Jan. 4			38.75			31.4
B. D. +52° 602						B. D. +40° 567						B. D. +41° 517								
1900	h	m	s	°	'	''	1900	h	m	s	°	'	''	1900	h	m	s	°	'	''
Sept. 25	2	30	52.55	+52	22	39.4	Sept. 24	2	34	12.44	+40	53	9.6	Oct. 9	2	35	47.45	+41	44	52.9
Oct. 24			52.46			42.0	Oct. 21			12.26			9.0	Nov. 5			47.33			52.5
26			52.49			39.1	Nov. 11			12.33			10.3	Dec. 12			47.44			51.7
Nov. 30			52.47			39.6	Dec. 6			12.37			8.4	27			47.40			52.2
Dec. 19			52.65			39.6	28			12.20			9.1	1901						
Mean	2	30	52.52	+52	22	39.9	Mean	2	34	12.32	+40	53	9.3	Jan. 1			47.46			52.3
B. D. +50° 589						B. D. +49° 741						B. D. +52° 616								
1900	h	m	s	°	'	''	1900	h	m	s	°	'	''	1900	h	m	s	°	'	''
Sept. 23	2	31	23.10	+50	26	1.2	Sept. 26	2	34	18.18	+49	34	56.4	Sept. 18	2	35	56.77	+53	5	59.8
Oct. 20			23.23			2.1	Oct. 26			18.30			54.9	Oct. 16			56.57			58.0
Dec. 5			23.12			1.4	Dec. 20			18.44			56.3	Dec. 5			56.74			58.9
26			23.12			0.9	1901							1901						
Mean	2	31	23.14	+50	26	1.4	Jan. 3			18.21			56.0	Jan. 18			56.73			58.7
B. D. +51° 604						B. D. +49° 743						B. D. +39° 613								
1900	h	m	s	°	'	''	1900	h	m	s	°	'	''	1900	h	m	s	°	'	''
Sept. 27	2	31	37.41	+51	38	36.1	Sept. 26	2	34	25.06	+49	41	21.5	Oct. 10	2	36	14.16	+39	21	55.9
Oct. 27			37.48			36.4	Oct. 26			24.96			20.8	Nov. 9			14.19			55.4
Dec. 14			37.41			38.1	Dec. 20			25.09			20.3	1901						
19			37.54			38.1	1901							Jan. 2			14.17			53.8
Mean	2	31	37.46	+51	38	37.2	Jan. 4			25.07			21.0	16			14.29			55.6
B. D. +37° 589						B. D. +37° 596						B. D. +52° 617								
1900	h	m	s	°	'	''	1900	h	m	s	°	'	''	1900	h	m	s	°	'	''
Oct. 10	2	32	10.11	+37	31	10.5	Sept. 26	2	34	54.35	+37	48	....	Sept. 25	2	36	19.69	+52	19	46.9
Nov. 5			10.02			8.9	Oct. 26			54.26			14.3	Oct. 24			19.82			48.8
Dec. 12			10.02			9.9	Dec. 20			....			16.1	Nov. 30			19.71			48.6
1901							1901							Dec. 19			19.76			48.1
Jan. 2			10.07			10.3	Jan. 2			54.30			15.6	Mean	2	36	19.74	+52	19	48.1
Mean	2	32	10.06	+37	31	9.9	Mean	2	34	54.30	+37	48	15.2	B. D. +42° 610						
B. D. +50° 595						B. D. +51° 616						B. D. +42° 610								
1900	h	m	s	°	'	''	1900	h	m	s	°	'	''	1900	h	m	s	°	'	''
Sept. 23	2	32	24.94	+50	21	3.4	Sept. 19	2	35	21.69	+52	0	20.2	Sept. 26	2	36	34.80	+42	35	5.5
Oct. 20			25.01			3.6	Oct. 20			21.68			21.1	Oct. 26			34.77			5.4
Dec. 5			25.08			3.4	Nov. 22			21.58			20.8	Dec. 20			34.85			5.4
26			25.04			4.5	1901							1901						
Mean	2	32	25.02	+50	21	3.7	Jan. 2			54.30			15.6	Jan. 3			34.66			5.5
B. D. +49° 733						B. D. +51° 616						B. D. +42° 610								
1900	h	m	s	°	'	''	1900	h	m	s	°	'	''	1900	h	m	s	°	'	''
Oct. 6	2	32	49.23	+50	5	12.7	Sept. 19	2	35	21.69	+52	0	20.2	Sept. 26	2	36	34.80	+42	35	5.5
29			49.21			12.8	Oct. 20			21.68			21.1	Oct. 26			34.77			5.4
Nov. 27			49.24			13.9	Nov. 22			21.58			20.8	Dec. 20			34.85			5.4
Dec. 21			49.22			12.8	1901							1901						
Mean	2	32	49.22	+50	5	13.0	Jan. 15			21.69			21.2	Jan. 3			34.66			5.5
B. D. +49° 733						B. D. +51° 616						B. D. +42° 610								
1900	h	m	s	°	'	''	1900	h	m	s	°	'	''	1900	h	m	s	°	'	''
Oct. 6	2	32	49.23	+50	5	12.7	Sept. 19	2	35	21.69	+52	0	20.2	Sept. 26	2	36	34.80	+42	35	5.5
29			49.21			12.8	Oct. 20			21.68			21.1	Oct. 26			34.77			5.4
Nov. 27			49.24			13.9	Nov. 22			21.58			20.8	Dec. 20			34.85			5.4
Dec. 21			49.22			12.8	1901							1901						
Mean	2	32	49.22	+50	5	13.0	Jan. 15			21.69			21.2	Jan. 3			34.66			5.5
B. D. +49° 733						B. D. +51° 616						B. D. +42° 610								
1900	h	m	s	°	'	''	1900	h	m	s	°	'	''	1900	h	m	s	°	'	''
Oct. 6	2	32	49.23	+50	5	12.7	Sept. 19	2	35	21.69	+52	0	20.2	Sept. 26	2	36	34.80	+42	35	5.5
29			49.21			12.8	Oct. 20			21.68			21.1	Oct. 26			34.77			5.4
Nov. 27			49.24			13.9	Nov. 22			21.58			20.8	Dec. 20			34.85			5.4
Dec. 21			49.22			12.8	1901							1901						
Mean	2	32	49.22	+50	5	13.0	Jan. 15			21.69			21.2	Jan. 3			34.66			5.5
B. D. +49° 733						B. D. +51° 616						B. D. +42° 610								
1900	h	m	s	°	'	''	1900	h	m	s	°	'	''	1900	h	m	s	°	'	''
Oct. 6	2	32	49.23	+50	5	12.7	Sept. 19	2	35	21.69	+52	0	20.2	Sept. 26	2	36	34.80	+42	35	5.5
29			49.21			12.8	Oct. 20			21.68			21.1	Oct. 26			34.77			5.4
Nov. 27			49.24			13.9	Nov. 22			21.58			20.8	Dec. 20			34.85			5.4
Dec. 21			49.22			12.8	1901							1901						
Mean	2	32	49.22	+50	5	13.0	Jan. 15			21.69			21.2	Jan. 3			34.66			5.5
B. D. +49° 733						B. D. +51° 616						B. D. +42° 610								
1900	h	m	s	°	'	''	1900	h	m	s	°	'	''	1900	h	m	s	°	'	''
Oct. 6	2	32	49.23	+50	5	12.7	Sept. 19	2	35	21.69	+52	0	20.2	Sept. 26	2	36	34.80	+42	35	5.5
29			49.21			12.8	Oct. 20			21.68			21.1	Oct. 26			34.77			5.4
Nov. 27			49.24			13.9	Nov. 22			21.58			20.8	Dec. 20			34.85			5.4
Dec. 21			49.22			12.8	1901							1901						
Mean	2	32	49.22	+50	5	13.0	Jan. 15			21.69			21.2	Jan. 3			34.66			5.5
B. D. +49° 733						B. D. +51° 616						B. D. +42° 610								
1900	h	m	s	°	'	''	1900	h	m	s	°	'	''	1900	h	m	s	°	'	''
Oct. 6	2	32	49.23	+50	5	12.7	Sept. 19	2	35	21.69	+52	0	20.2	Sept. 26	2	36	34.80	+42	35	5.5
29																				

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B. D. +51° 620				B. D. +48° 746				B. D. +50° 623			
1900	h m s	° / "		1900	h m s	° / "		1900	h m s	° / "	
Sept. 19	2 36 38.32	+51 59 15.9		Sept. 18	2 37 22.01	+48 48 21.1		Sept. 19	2 38 32.88	+51 9 44.8	
Oct. 19	38.16	16.9		Oct. 16	22.07	21.1		Oct. 15	32.93	45.9	
27	38.18	17.5		1901				1901			
1901				Jan. 1	22.14	20.4		Jan. 7	32.99	44.7	
Jan. 4	38.34	17.1		22	21.96	19.9		29	32.87	45.4	
15	38.15	17.4		Mean	2 37 22.04	+48 48 20.6		Mean	2 38 32.92	+51 9 45.2	
16	38.27	17.1									
18	38.24	16.7									
Mean	2 36 38.24	+51 59 16.9									
B. D. +50° 613				B. D. +50° 617				B. D. +48° 750			
1900	h m s	° / "		1900	h m s	° / "		1900	h m s	° / "	
Sept. 18	2 36 40.21	+51 6 28.1		Sept. 27	2 37 24.17	+50 47 57.7		Sept. 19	2 38 56.18	+48 32 8.1	
Oct. 15	40.15	30.4		Oct. 27	24.08	57.3		Oct. 19	56.23	7.7	
1901				Dec. 14	24.22	57.5		Nov. 11	56.27	7.9	
Jan. 7	40.15	29.1		1901				22	56.27	7.9	
29	40.33	28.9		Jan. 4	24.29	58.5		1901			
Mean	2 36 40.21	+51 6 29.1		Mean	2 37 24.19	+50 47 57.8		Jan. 15	56.26	8.3	
B. D. +49° 752				B. D. +43° 566				B. D. +47° 692			
1900	h m s	° / "		1900	h m s	° / "		1900	h m s	° / "	
Oct. 6	2 36 45.99	+49 57 34.1		Sept. 25	2 37 34.30	+43 52 18.4		Sept. 25	2 38 58.49	+47 43 16.6	
29	46.00	33.4		Oct. 24	34.21	19.7		Oct. 24	58.54	17.3	
Dec. 14	46.03	34.1		Nov. 30	34.30	20.4		Nov. 30	58.53	16.3	
21	45.94	33.6		Dec. 19	34.35	18.8		Dec. 19	58.52	15.8	
Mean	2 36 45.99	+49 57 33.8		Mean	2 37 34.29	+43 52 19.3		Mean	2 38 58.52	+47 43 16.5	
B. D. +49° 753				B. D. +40° 581				B. D. +41° 530			
1900	h m s	° / "		1900	h m s	° / "		1900	h m s	° / "	
Sept. 23	2 36 47.96	+50 10 19.8		Oct. 10	2 37 52.98	+40 21 34.4		Oct. 9	2 39 12.14	+42 6 19.3	
Oct. 20	47.79	20.4		Nov. 9	52.84	33.8		Nov. 5	12.24	18.7	
Dec. 5	47.87	19.7		Dec. 13	52.97	35.8		Dec. 27	12.36	18.6	
26	47.75	19.3		1901				1901			
1901				Jan. 16	53.00	34.5		Jan. 2	12.30	18.9	
Jan. 22	47.90	18.5		Mean	2 37 52.95	+40 21 34.6		Mean	2 39 12.26	+42 6 18.9	
Mean	2 36 47.85	+50 10 19.5									
B. D. +42° 613				B. D. +46° 622				B. D. +46° 628			
1900	h m s	° / "		1900	h m s	° / "		1900	h m s	° / "	
Oct. 11	2 37 4.79	+42 46 54.2		Oct. 6	2 37 53.57	+46 25 11.2		Oct. 6	2 39 23.07	+46 48 42.9	
Nov. 12	4.80	53.8		29	53.60	11.3		29	22.97	41.7	
Dec. 10	4.85	54.0		Nov. 27	53.59	10.8		Nov. 27	23.13	42.8	
1901				Dec. 21	53.49	10.7		Dec. 21	22.95	42.8	
Jan. 8	4.92	54.3		Mean	2 37 53.56	+46 25 11.0		Mean	2 39 23.03	+46 48 42.6	
Mean	2 37 4.84	+42 46 54.1									
B. D. +42° 614				B. D. +40° 582				B. D. +40° 589			
1900	h m s	° / "		1900	h m s	° / "		1900	h m s	° / "	
Sept. 24	2 37 6.21	+43 6 46.2		Oct. 11	2 37 56.24	+40 40 55.8		Oct. 11	2 39 28.94	+40 29 21.4	
Oct. 21	6.21	45.7		Nov. 12	56.20	56.4		Nov. 12	28.87	21.6	
Dec. 6	6.19	45.2		Dec. 10	56.16	57.0		Dec. 10	28.83	23.0	
28	6.21	45.4		1901				1901			
Mean	2 37 6.20	+43 6 45.6		Jan. 8	56.27	56.1		Jan. 8	28.96	21.5	
B. D. +42° 615				Mean	2 37 56.22	+40 40 56.3		Mean	2 39 28.90	+40 29 21.9	
1900	h m s	° / "									
Oct. 9	2 37 6.61	+42 11 45.4		B. D. +50° 620				B. D. +50° 627			
Nov. 5	6.59	45.0		1900	h m s	° / "		1900	h m s	° / "	
Dec. 27	6.68	44.2		Sept. 23	2 38 4.87	+50 18 12.9		Sept. 23	2 39 29.47	+50 11 44.8	
1901				Oct. 20	4.90	14.3		Oct. 20	29.41	46.2	
Jan. 2	6.74	44.8		Dec. 5	4.93	14.0		Dec. 5	29.54	44.3	
Mean	2 37 6.66	+42 11 44.8		26	4.91	12.5		26	29.42	44.2	
B. D. +40° 577				Mean	2 38 4.90	+50 18 13.4		Mean	2 39 29.46	+50 11 44.9	
1900	h m s	° / "									
Sept. 26	2 37 21.07	+41 4 21.5		B. D. +44° 569				B. D. +48° 752			
Oct. 26	21.06	21.9		1900	h m s	° / "		1900	h m s	° / "	
Dec. 20	21.11	22.0		Sept. 24	2 38 11.96	+45 10 35.1		Sept. 18	2 39 35.62	+48 56 21.8	
1901				Oct. 21	11.96	34.9		Oct. 16	35.46	22.2	
Jan. 3	21.04	22.4		Dec. 6	11.99	35.7		1901			
Mean	2 37 21.07	+41 4 22.0		28	12.06	35.8		Jan. 1	35.61	22.1	
				Mean	2 38 11.99	+45 10 35.4		22	35.49	22.0	
								Mean	2 39 35.54	+48 56 22.0	

B. D. +39° 628				B. D. +42° 528				B. D. +50° 636			
1900	h m s	° / "		1900	h m s	° / "		1900	h m s	° / "	
Oct. 10	2 39 37.90	+40 11 28.0		Oct. 11	2 40 53.14	+42 58 57.0		Sept. 23	2 41 35.87	+50 28 44.7	
Nov. 9	37.84	27.2		Nov. 12	53.07	57.2		Oct. 20	35.69	44.6	
Dec. 13	38.01	27.4		Dec. 10	53.08	57.7		Dec. 5	35.82	44.0	
1901				1901				26	35.76	[41.8]	
Jan. 16	38.06	27.1		Jan. 8	53.29	57.2		Mean	2 41 35.78	+50 28 44.4	
Mean	2 39 37.95	+40 11 27.4		Mean	2 40 53.14	+42 58 57.3		B. D. +43° 579			
B. D. +44° 573				B. D. +43° 576				1900	h m s	° / "	
1900	h m s	° / "		1900	h m s	° / "		Oct. 9	2 41 43.47	+43 12 15.7	
Sept. 24	2 39 44.47	+45 1 46.7		Sept. 19	2 40 58.84	+43 51 10.1		Nov. 5	43.54	15.2	
Oct. 21	44.37	46.4		Oct. 19	58.90	9.2		Dec. 27	43.68	14.5	
Dec. 6	44.39	45.0		Nov. 22	58.94	9.6		1901			
28	44.42	45.0		1901				Jan. 2	43.56	14.8	
Mean	2 39 44.41	+45 1 45.8		Jan. 15	58.91	10.0		Mean	2 41 43.56	+43 12 15.0	
B. D. +40° 590				B. D. +44° 577				B. D. +47° 700			
1900	h m s	° / "		1900	h m s	° / "		1900	h m s	° / "	
Sept. 26	2 39 47.54	+41 2 22.8		Sept. 24	2 41 0.78	+44 50 44.8		Sept. 26	2 41 43.89	+48 2 9.5	
Oct. 26	47.46	22.1		Nov. 11	0.61	45.5		Oct. 26	43.84	10.2	
Dec. 20	47.57	23.7		Dec. 6	0.73	45.2		Dec. 20	43.89	10.2	
1901				28	0.79	44.9		1901			
Jan. 3	47.62	24.2		Mean	2 41 0.73	+44 50 45.1		Jan. 3	43.78	9.3	
Mean	2 39 47.55	+41 2 23.2		B. D. +49° 773				Mean	2 41 43.85	+48 2 9.8	
B. D. +51° 626				1900	h m s	° / "		B. D. +46° 638			
1900	h m s	° / "		Sept. 27	2 41	+49 39 34.2		1900	h m s	° / "	
Sept. 27	2 39 53.24	+51 47 3.8		Nov. 4	5.17	33.9		Oct. 6	2 41 50.64	+46 32 46.7	
Oct. 27	53.36	3.5		Dec. 14	5.16	32.7		29	50.66	47.1	
Dec. 14	53.28	4.2		1901				Nov. 27	50.85	47.4	
1901				Jan. 4	5.20	33.9		Dec. 21	50.62	47.1	
Jan. 4	53.39	4.8		Mean	2 41 5.18	+49 39 33.7		Mean	2 41 50.69	+46 32 47.1	
Mean	2 39 53.32	+51 47 4.1		B. D. +50° 630				B. D. +48° 762			
B. D. +43° 574				1900	h m s	° / "		1900	h m s	° / "	
1900	h m s	° / "		Sept. 23	2 41 6.02	+51 7 57.0		Sept. 18	2 42 1.32	+48 45 . . .	
Oct. 9	2 40 0.88	+43 20 39.4		Oct. 15	6.00	58.9		Oct. 16	1.26	59.9	
Nov. 5	0.84	39.6		1901				1901			
Dec. 27	0.98	38.9		Jan. 7	6.08	57.4		Jan. 1	1.52	59.5	
1901				29	6.07	56.7		22	1.40	58.4	
Jan. 2	1.00	39.0		Mean	2 41 6.04	+51 7 57.5		Mean	2 42 1.38	+48 45 59.3	
18	0.82	39.5		B. D. +47° 698				B. D. +40° 602			
Mean	2 40 0.90	+43 20 39.3		1900	h m s	° / "		1900	h m s	° / "	
B. D. +51° 628				Sept. 25	2 41 20.21	+47 46 43.3		Oct. 11	2 42 4.39	+40 33 40.4	
1900	h m s	° / "		Oct. 24	20.20	43.8		Nov. 12	4.31	40.5	
Sept. 27	2 40 6.34	+51 43 41.3		Nov. 30	20.28	43.9		Dec. 10	4.27	40.1	
Oct. 27	6.42	40.7		Dec. 19	20.30	44.2		1901			
Dec. 14	6.41	41.2		Mean	2 41 20.25	+47 46 43.8		Jan. 8	4.31	39.9	
1901				B. D. +48° 760				Mean	2 42 4.32	+40 33 40.2	
Jan. 4	6.37	41.2		1900	h m s	° / "		B. D. +41° 543			
Mean	2 40 6.38	+51 43 41.1		Sept. 18	2 41 25.52	+48 48 7.1		1900	h m s	° / "	
B. D. +45° 660				Oct. 16	25.33	7.8		Oct. 10	2 42 12.55	+41 59 49.1	
1900	h m s	° / "		1901				Nov. 9	12.49	48.1	
Sept. 26	2 40 33.93	+45 29 47.3		Jan. 1	25.52	6.7		Dec. 13	12.57	48.7	
Oct. 26	33.92	46.6		22	25.52	5.6		1901			
Dec. 20	34.06	47.2		Mean	2 41 25.47	+48 48 6.8		Jan. 16	12.65	49.1	
1901				B. D. +41° 541				Mean	2 42 12.56	+41 59 48.8	
Jan. 3	33.93	47.6		1900	h m s	° / "		B. D. +42° 633			
Mean	2 40 33.96	+45 29 47.2		Oct. 10	2 41 26.39	+41 26 52.2		1900	h m s	° / "	
B. D. +41° 538				Nov. 9	26.28	55.9		Sept. 25	2 42 12.78	+42 18 57.9	
1900	h m s	° / "		Dec. 13	26.34	53.6		Oct. 24	12.84	57.6	
Oct. 10	2 40 42.71	+41 45 18.1		1901				Nov. 30	12.91	58.4	
Nov. 4	42.67	19.9		Jan. 16	26.35			Dec. 19	12.90	56.4	
9	42.61	18.8		18	26.39	54.9		Mean	2 42 12.86	+42 18 57.6	
Dec. 13	42.66	20.0		Mean	2 41 26.35	+41 26 54.2					
1901											
Jan. 16	42.66	19.0									
Mean	2 40 42.66	+41 45 19.2									

B. D. +47° 702				B. D. +44° 582				B. D. +40° 612			
1900	h m s	° ' "		1900	h m s	° ' "		1900	h m s	° ' "	
Sept. 19	2 42 19.18	+47 12	32.0	Sept. 26	2 43 4.76	+44 59	17.7	Oct. 6	2 44 5.71	+40 52	57.4
Oct. 19	19.29		30.3	Nov. 12	4.74		18.2	20	5.70		59.3
Nov. 22	19.44		30.1	Dec. 20	4.82		17.4	Dec. 5	5.75		58.7
1901				1901				26	5.69		57.4
Jan. 15	19.33		31.2	Jan. 3	4.75		17.4	Mean	2 44 5.71	+40 52	58.2
18	19.34		30.1	Mean	2 43 4.77	+44 59	17.7	B. D. +42° 638			
Mean	2 42 19.32	+47 12	30.7	B. D. +47° 709				1900	h m s	° ' "	
B. D. +48° 763				1900	h m s	° ' "		Sept. 25	2 44 6.27	+42 54	0.5
1900	h m s	° ' "		Sept. 16	2 43 21.27	+47 43	51.3	Oct. 24	6.15		1.2
Sept. 18	2 42 27.54	+48 53	4.5	Oct. 15	21.18		51.7	Nov. 11	6.16		0.2
Oct. 16	27.49		4.7	1901				30	6.34		2.2
1901				Jan. 7	21.32		50.6	Dec. 19	6.43		1.0
Jan. 1	27.68		4.9	29	21.39		50.0	Mean	2 44 6.27	+42 54	1.0
22	27.70		4.3	Mean	2 43 21.29	+47 43	50.9	B. D. +43° 586			
Mean	2 42 27.60	+48 53	4.6	B. D. +43° 583				1900	h m s	° ' "	
B. D. +51° 633				1900	h m s	° ' "		Oct. 9	2 44 6.77	+43 56	39.3
1900	h m s	° ' "		Sept. 24	2 43 26.37	+43 23	52.5	Nov. 5	6.84		39.9
Sept. 16	2 42 28.18	+51 13	35.0	Oct. 21	26.35		53.0	Dec. 28	6.90		38.8
Oct. 15	28.10		36.8	Dec. 6	26.38		53.3	1901			
1901				28	26.45		51.7	Jan. 2	6.82		38.8
Jan. 7	28.21		35.6	Mean	2 43 26.39	+43 23	52.6	Mean	2 44 6.83	+43 56	39.2
29	28.22		35.4	B. D. +42° 637				1900	h m s	° ' "	
Mean	2 42 28.18	+51 13	35.7	1900	h m s	° ' "		Oct. 10	2 44 7.41	+41 31	49.5
B. D. +46° 641				Sept. 25	2 43 27.60	+42 23	2.9	Nov. 9	7.31		49.5
1900	h m s	° ' "		Oct. 24	27.51		4.4	Dec. 13	7.41		49.4
Sept. 24	2 42 28.18	+46 48	5.3	Nov. 30	27.74		4.7	1901			
Oct. 21	28.17		3.9	Dec. 19	27.68		3.7	Jan. 16	7.47		49.2
Dec. 6	28.27		4.7	Mean	2 43 27.63	+42 23	3.9	Mean	2 44 7.40	+41 31	49.4
28	28.28		4.9	B. D. +46° 644				1900	h m s	° ' "	
Mean	2 42 28.22	+46 48	4.7	1900	h m s	° ' "		Sept. 26	2 44 9.51	+45 39	30.9
B. D. +43° 580				Sept. 19	2 43 34.65	+46 59		Oct. 26	9.51		30.6
1900	h m s	° ' "		Oct. 19	34.59		53.4	Dec. 20	9.57		30.8
Oct. 9	2 42 34.66	+43 53	53.0	Nov. 27	34.81		53.2	1901			
Nov. 5	34.76		53.1	1901				Jan. 3	9.46		30.6
Dec. 27	34.72		52.5	Jan. 15	34.57		52.7	Mean	2 44 9.51	+45 39	30.7
1901				Mean	2 43 34.66	+46 59	53.1	B. D. +48° 770			
Jan. 2	34.79		52.4	B. D. +40° 610				1900	h m s	° ' "	
Mean	2 42 34.73	+43 53	52.8	1900	h m s	° ' "		Sept. 18	2 44 19.64	+48 56	9.1
B. D. +48° 764				Oct. 10	2 43 51.62	+40 24	17.2	Oct. 16	19.59		10.2
1900	h m s	° ' "		Nov. 12	51.58		16.0	1901			
Sept. 23	2 42 43.39	+48 27	50.1	Dec. 10	51.59		16.3	Jan. 1	19.73		9.9
Oct. 20	43.34		49.9	1901				22	19.74		9.1
Dec. 5	43.33		50.1	Jan. 8	51.64		16.5	Mean	2 44 19.68	+48 56	9.6
26	43.35		47.6	Mean	2 43 51.61	+40 24	16.5	B. D. +47° 714			
Mean	2 42 43.35	+48 27	49.4	B. D. +47° 711				1900	h m s	° ' "	
B. D. +45° 662				1900	h m s	° ' "		Sept. 19	2 44 40.02	+48 5	32.1
1900	h m s	° ' "		Sept. 16	2 43 53.29	+47 52	33.2	Oct. 19	39.92		33.3
Oct. 6	2 42 55.00	+45 59	10.3	Oct. 15	53.27		33.8	Nov. 22	40.00		32.7
29	55.03		10.4	1901				1901			
Nov. 27	55.11		11.4	Jan. 7	53.39		33.0	Jan. 15	39.93		32.6
Dec. 21	54.96		11.0	18	53.20		34.6	16	40.05		32.9
Mean	2 42 55.02	+45 59	10.8	Mean	2 43 53.29	+47 52	33.6	Mean	2 44 39.98	+48 5	32.7
B. D. +49° 782				B. D. +45° 665				1900	h m s	° ' "	
1900	h m s	° ' "		1900	h m s	° ' "		Sept. 27	2 44 55.60	+45 34	
Sept. 27	2 42 58.84	+49 35	53.6	Sept. 27	2 44 0.37	+45 25	21.6	Oct. 11	55.77		26.1
Oct. 27	58.94		53.8	Oct. 11	0.52		21.5	27	55.68		26.0
Dec. 14	58.94		53.5	27	0.48		21.1	Dec. 14	55.71		25.9
1901				Dec. 14	0.54		21.1	1901			
Jan. 4	58.88		53.9	1901				Jan. 4	55.86		25.5
Mean	2 42 58.90	+49 35	53.7	Jan. 4	0.61		21.5	Mean	2 44 55.72	+45 34	25.9
B. D. +49° 782				Mean	2 44 0.50	+45 25	21.4	B. D. +45° 669			

B. D. +46° 648				B. D. +48° 782				B. D. +46° 652			
1900	h m s	° / //		1900	h m s	° / //		1900	h m s	° / //	
Sept. 25	2 44 59.93	+46 25	46.4	Sept. 18	2 45 38.74	+49 5	23.0	Sept. 24	2 47 16.62	+46 45	7.3
Oct. 24	59.80		46.0	Oct. 15	38.72		24.9	Oct. 21	16.56		7.6
Nov. 30	45 0.00		47.2	Dec. 10	38.80		23.7	Dec. 6	16.66		7.3
Dec. 19	0.00		46.3	1901				28	16.66		7.9
Mean	2 44 59.93	+46 25	46.5	Jan. 7	38.85		23.4	Mean	2 47 16.62	+46 45	7.5
B. D. +44° 591				B. D. +47° 721				B. D. +42° 650			
1900	h m s	° / //		1900	h m s	° / //		1900	h m s	° / //	
Oct. 6	2 45 6.77	+44 38	48.1	Sept. 19	2 45 50.89	+48 0	31.9	Oct. 9	2 48 26.75	+42 48	22.5
29	6.72		47.8	Oct. 19	50.88		31.9	Nov. 5	26.91		21.5
Nov. 4	6.81		47.7	Nov. 22	51.13		31.0	Dec. 14	26.72		21.6
27	6.84		47.2	1901				1901			
Dec. 21	6.75		46.8	Jan. 15	51.02		31.9	Jan. 2	26.86		21.8
Mean	2 45 6.78	+44 38	47.5	Mean	2 45 50.98	+48 0	31.7	Mean	2 48 26.81	+42 48	21.8
B. D. +44° 593				B. D. +43° 593				B. D. +46° 656			
1900	h m s	° / //		1900	h m s	° / //		1900	h m s	° / //	
Oct. 6	2 45 16.87	+44 28	55.0	Sept. 24	2 45 52.73	+43 21	43.5	Sept. 24	2 48 48.50	+46 53	51.8
29	16.85		54.9	Oct. 21	52.69		43.8	Oct. 21	48.29		51.8
Nov. 27	16.98		54.8	Dec. 6	52.88		43.0	Dec. 6	48.53		51.9
Dec. 21	16.78		54.6	28	52.77		43.0	28	48.49		51.2
Mean	2 45 16.87	+44 28	54.8	Mean	2 45 52.77	+43 21	43.3	Mean	2 48 48.45	+46 53	51.7
B. D. +48° 777				B. D. +41° 556				B. D. +45° 679			
1900	h m s	° / //		1900	h m s	° / //		1900	h m s	° / //	
Sept. 23	2 45 20.16	+48 28	15.3	Oct. 10	2 45 54.79	+41 36	33.2	Sept. 27	2 49 15.07	+45 26	1.5
Oct. 20	20.05		15.3	Nov. 9	54.73		33.5	Oct. 27	15.08		1.1
Dec. 5	20.24		13.9	Dec. 13	54.77		34.0	Dec. 14	14.97		1.0
26	20.26		13.8	1901				1901			
Mean	2 45 20.18	+48 28	14.6	Jan. 16	54.83		33.7	Jan. 4	14.92		0.4
B. D. +47° 720				B. D. +42° 643				B. D. +44° 598			
1900	h m s	° / //		1900	h m s	° / //		1900	h m s	° / //	
Sept. 26	2 45 37.43	+47 30	3.5	Oct. 11	2 46 6.27	+42 21	30.3	Oct. 6	2 49 29.02	+44 34	37.9
Nov. 5	37.36		4.5	Nov. 12	6.23		30.0	29	28.93		37.6
Dec. 20	37.37		3.7	Dec. 10	6.29		30.0	Nov. 27	28.81		39.0
1901				1901				Dec. 21	28.86		37.1
Jan. 3	37.35		4.4	Jan. 8	6.27		29.8	Mean	2 49 28.90	+44 34	37.9
Mean	2 45 37.38	+47 30	4.0	Mean	2 46 6.26	+42 21	30.0				

CATALOGUE

OF

EROS REFERENCE STARS.

NAME.	MEAN DATE.	NO. OBS.	RIGHT ASCENSION 1900.0	NO. OBS.	DECLINATION 1900.0	NAME.	MEAN DATE.	NO. OBS.	RIGHT ASCENSION 1900.0	NO. OBS.	DECLINATION 1900.0
	1900+		h m s		° ' "		1900+		h m s		° ' "
B. D.+49° 399	0.87	4	1 24 0.50	4	+49 25 30.5	B. D.+43° 343	0.90	4	1 33 21.06	4	+43 52 39.2
B. D.+46° 370	0.90	4	1 24 6.11	4	46 29 29.0	B. D.+51° 360	0.84	4	1 33 34.46	4	52 8 21.4
B. D.+51° 317	0.84 0.88	4	1 24 26.19	3	51 34 41.8	B. D.+41° 321	0.88	4	1 33 41.52	4	42 13 51.4
B. D.+47° 429	0.89	4	1 24 33.57	4	47 22 51.1	B. D.+53° 363	0.86	4	1 33 51.54	4	53 21 39.3
B. D.+49° 401	0.85	4	1 24 37.85	4	50 9 7.2	B. D.+51° 363	0.87	4	1 34 2.64	4	51 21 27.3
B. D.+49° 400	0.86	4	1 24 38.46	4	50 5 55.7	B. D.+51° 364	0.84	4	1 34 10.42	4	52 1 21.9
B. D.+46° 373	0.90	4	1 24 47.96	4	47 3 4.6	B. D.+44° 346	0.88	4	1 34 45.33	4	44 16 29.5
B. D.+47° 434 ¹	0.89	4	1 24 51.75	4	47 54 4.6	B. D.+44° 347	0.87	4	1 34 48.02	4	44 30 48.6
B. D.+49° 403	0.86	4	1 24 52.29	4	49 54 48.9	B. D.+45° 416	0.86	4	1 35 22.71	4	45 54 24.0
B. D.+47° 434 ²	0.89	4	1 24 53.68	4	+47 54 13.0	B. D.+52° 406	0.84	4	1 35 23.33	4	+52 52 14.7
B. D.+48° 453	0.87	4	1 24 54.35	4	+48 49 42.6	B. D.+44° 352	0.90	4	1 35 50.88	4	+45 4 17.8
B. D.+48° 454	0.88	4	1 25 25.98	4	48 31 27.8	B. D.+42° 351	0.88	4	1 35 58.02	4	42 21 32.2
B. D.+48° 455	0.89 0.86	4	1 25 26.41	5	48 16 17.8	B. D.+42° 352	0.86	4	1 36 3.76	4	43 8 4.6
B. D.+50° 297	0.88	7	1 25 41.79	7	50 55 14.1	B. D.+42° 354	0.88	4	1 36 16.01	4	42 30 57.1
B. D.+51° 323	0.84 0.88	4	1 25 46.58	3	51 57 17.8	B. D.+41° 329	0.95 0.94	6	1 36 16.72	5	41 25 26.1
B. D.+50° 298	0.86	4	1 26 12.76	4	50 38 52.2	B. D.+45° 422	0.88	4	1 36 23.99	4	45 32 10.0
B. D.+47° 442	0.88	4	1 26 16.99	4	47 54 12.9	B. D.+45° 424	0.88	4	1 37 4.34	4	45 26 11.4
B. D.+50° 299	0.89	4	1 26 22.61	4	50 18 35.0	B. D.+44° 354	0.90	4	1 37 11.21	4	44 49 5.3
B. D.+50° 300	0.91 0.88	6	1 26 48.76	5	50 58 5.0	B. D.+52° 420	0.86	4	1 37 17.25	4	52 22 54.5
B. D.+50° 301	0.89	4	1 26 59.99	4	+50 22 1.6	B. D.+42° 356	0.86	4	1 37 17.46	4	+43 12 1.8
B. D.+48° 463	0.88	4	1 27 16.28	4	+48 30 19.5	B. D.+53° 375	0.87	4	1 37 25.57	4	+53 26 41.7
B. D.+49° 412	0.92	5	1 27 49.34	5	49 37 3.6	B. D.+54° 368	0.85	5	1 37 47.01	5	54 22 59.9
B. D.+51° 331	0.88 0.85	4	1 27 58.76	3	51 19 13.9	B. D.+52° 424	0.84	4	1 37 58.58	4	52 41 8.9
B. D.+45° 376	0.90	4	1 28 0.47	4	45 27 47.5	B. D.+42° 360	0.88	4	1 38 5.33	4	42 44 14.0
B. D.+47° 450	0.88	4	1 28 5.43	4	47 54 30.5	B. D.+42° 361	0.86	4	1 38 13.64	4	43 8 42.5
B. D.+49° 414	0.86	5	1 28 19.67	5	50 1 2.4	B. D.+52° 433	0.86	4	1 39 43.40	4	53 6 22.4
B. D.+48° 470	0.88	4	1 28 20.40	4	49 3 3.6	B. D.+43° 364	0.88	4	1 40 15.70	4	44 8 45.5
B. D.+45° 379	0.90 0.94	5	1 28 33.26	4	46 0 46.5	B. D.+42° 370	0.86	4	1 40 16.77	4	43 12 16.9
B. D.+51° 334	0.86 0.83	4	1 28 33.84	3	51 38 29.1	B. D.+40° 364	0.93 0.90	5	1 40 37.14	4	41 3 5.1
B. D.+44° 326	0.89	4	1 28 37.81	4	+45 4 58.2	B. D.+41° 342	0.90	4	1 41 11.32	4	+41 41 38.4
B. D.+45° 383	0.90	4	1 29 15.89	4	+45 19 0.9	B. D.+53° 386	0.87	4	1 41 14.78	4	+53 30 17.6
B. D.+44° 329	0.88	4	1 29 20.40	4	44 24 51.8	B. D.+42° 373	0.88	4	1 41 25.40	4	42 34 50.6
B. D.+51° 338	0.84	4	1 29 22.58	4	51 39 8.2	B. D.+53° 388	0.90	5	1 41 35.31	5	53 23 25.6
B. D.+46° 389	0.92	4	1 29 30.54	4	46 22 51.9	B. D.+41° 347	0.90 0.94	4	1 41 45.16	3	41 55 24.5
B. D.+46° 393	0.93	5	1 29 59.29	5	46 36 11.4	B. D.+52° 441	0.84	4	1 41 53.11	4	52 44 58.9
B. D.+48° 477	0.87	4	1 30 3.20	4	48 41 35.7	B. D.+42° 375	0.88	4	1 41 55.75	4	42 42 44.0
B. D.+49° 416	0.92	6	1 30 5.77	6	50 12 23.6	B. D.+54° 383	0.84	4	1 42 39.74	4	54 38 38.1
B. D.+46° 397	0.91	4	1 30 18.76	4	46 48 53.7	B. D.+41° 352	0.88	4	1 42 55.52	4	42 12 33.9
B. D.+47° 460	0.88	4	1 30 20.32	4	48 12 43.4	B. D.+53° 395	0.84	5	1 43 11.09	5	53 25 1.6
B. D.+51° 339	0.87	4	1 30 24.44	4	+51 14 16.1	B. D.+43° 373	0.90	5	1 43 11.25	5	+43 14 15.1
B. D.+47° 462	0.90	4	1 30 32.91	4	+47 33 44.9	B. D.+41° 353	0.90	4	1 43 14.34	4	+41 29 28.8
B. D.+52° 387	0.84	4	1 30 39.46	4	52 35 43.2	B. D.+54° 388	0.84	4	1 43 57.78	4	54 43 14.1
B. D.+47° 463	0.88	4	1 30 40.42	4	47 48 17.4	B. D.+53° 398	0.92 0.89	7	1 44 0.56	6	53 14 45.9
B. D.+50° 314	0.86	4	1 30 44.70	4	50 44 59.8	B. D.+54° 392	0.87	4	1 44 42.24	4	54 54 37.7
B. D.+49° 418	0.91	5	1 30 56.33	5	49 25 43.1	B. D.+54° 393	0.85	4	1 44 53.55	4	54 25 44.3
B. D.+51° 344	0.83	5	1 31 9.52	5	52 7 15.1	B. D.+42° 388	0.87	4	1 45 3.13	4	43 1 46.7
B. D.+46° 404	0.93	5	1 31 12.91	5	46 26 18.7	B. D.+53° 402	0.87 0.89	7	1 45 11.74	8	53 22 19.6
B. D.+45° 392	0.86	5	1 31 13.76	5	45 56 57.2	B. D.+42° 390	0.88	4	1 45 21.89	4	42 16 6.6
B. D.+45° 394	0.90	4	1 31 25.18	4	45 26 52.3	B. D.+54° 396	0.84	4	1 45 25.13	4	54 39 8.4
B. D.+49° 422	0.86	4	1 31 42.27	4	+50 5 48.4	B. D.+40° 384	0.90	4	1 45 37.38	4	+40 57 32.8
B. D.+44° 335	0.91	5	1 32 5.17	5	+44 18 30.9	B. D.+39° 421	0.88	4	1 46 25.60	4	+40 3 11.4
B. D.+44° 337	0.90	4	1 32 20.60	4	45 9 17.8	B. D.+41° 362	0.90	4	1 46 43.19	4	41 20 52.0
B. D.+45° 398	0.86	4	1 32 22.35	4	45 55 7.3	B. D.+40° 390	0.90	4	1 46 49.11	4	40 59 28.1
B. D.+44° 341	0.87	4	1 32 30.37	4	44 53 26.5	B. D.+41° 364	0.88	4	1 47 10.15	4	42 2 16.1
B. D.+52° 393	0.84	4	1 32 31.80	4	52 43 47.0	B. D.+54° 408	0.86	4	1 47 11.07	4	55 6 16.9
B. D.+43° 337	0.91	5	1 32 39.81	5	43 38 8.9	B. D.+40° 394	0.88	4	1 47 17.39	4	40 14 11.0
B. D.+53° 355	0.87	4	1 32 5.06	4	53 37 37.2	B. D.+53° 416	0.84	5	1 48 7.47	5	53 23 58.9
B. D.+43° 341	0.90	4	1 33 10.32	4	43 31 33.9	B. D.+54° 413	0.86	4	1 48 13.28	4	54 14 10.7
B. D.+52° 399	0.86	4	1 33 13.56	4	52 24 26.8	B. D.+53° 419	0.87	4	1 48 25.87	4	53 41 49.2
B. D.+51° 357	0.85	4	1 33 13.77	4	+51 45 32.5	B. D.+40° 400	0.90	4	1 48 27.45	4	+40 23 51.9

NAME.	MEAN DATE.	NO. OBS.	RIGHT ASCENSION 1900.0	NO. OBS.	DECLINATION 1900.0	NAME.	MEAN DATE.	NO. OBS.	RIGHT ASCENSION 1900.0	NO. OBS.	DECLINATION 1900.0
	1900		h m s		° ' "		1900+		h m s		° ' "
B. D. +39° 431	0.88	4	1 48 37.53	4	+40 9 50.5	B. D. +54° 535	0.84	4	2 16 54.30	4	+54 54 34.0
B. D. +40° 401	0.90	4	1 48 39.02	4	41 8 58.6	B. D. +53° 519	0.87	4	2 17 20.22	4	53 44 9.8
B. D. +39° 434	0.88	4	1 48 52.70	4	40 12 43.7	B. D. +53° 521	0.87	4	2 17 28.86	4	53 19 11.2
B. D. +54° 415	0.90	5	1 49 8.48	5	55 5 11.3	B. D. +52° 576	0.85	4	2 17 35.44	4	52 59 36.4
B. D. +55° 440	0.89 0.85	3	1 49 13.77	4	55 20 14.1	B. D. +54° 539	0.85	4	2 18 15.16	4	54 48 4.0
B. D. +54° 417	0.82 0.88	3	1 49 32.36	4	55 9 55.0	B. D. +52° 580	0.85	4	2 19 3.22	4	52 55 1.8
B. D. +41° 374	0.90	4	1 50 28.44	4	41 24 8.8	B. D. +53° 525	0.86	4	2 19 30.31	4	53 40 27.0
B. D. +41° 377	0.91	4	1 51 9.54	4	41 16 38.1	B. D. +52° 581	0.85	4	2 20 30.60	4	53 2 59.1
B. D. +54° 424	0.84	4	1 51 12.97	4	54 52 52.8	B. D. +54° 554	0.86 0.84	4	2 21 46.80	5	54 31 35.7
B. D. +40° 406	0.90	4	1 51 13.92	4	+40 16 19.4	B. D. +52° 585	0.85	4	2 21 54.87	4	+53 5 36.6
B. D. +53° 428	0.87	4	1 51 36.55	4	+54 7 12.0	B. D. +52° 587	0.87	4	2 22 52.51	4	+52 36 52.6
B. D. +54° 429	0.87	4	1 52 10.23	4	55 5 40.5	B. D. +53° 532	0.86	4	2 23 5.37	4	53 24 20.5
B. D. +40° 412	0.90	4	1 52 20.71	4	40 25 34.6	B. D. +54° 565	0.86 0.83	4	2 24 32.76	5	54 27 4.4
B. D. +39° 447	0.88	4	1 52 22.30	4	40 3 3.8	B. D. +51° 587	0.88	4	2 24 57.60	4	51 51 46.1
B. D. +55° 464	0.84	4	1 52 50.92	4	55 17 56.5	B. D. +52° 592	0.86	4	2 25 3.18	4	52 23 28.2
B. D. +54° 431	0.86	4	1 52 56.38	4	54 20 9.4	B. D. +53° 539	0.87	4	2 25 30.11	4	53 52 0.3
B. D. +39° 448	0.88	4	1 53 36.30	4	40 4 42.7	B. D. +53° 540	0.85	4	2 25 49.34	4	53 32 5.8
B. D. +40° 415	0.91	4	1 53 39.20	4	40 51 51.6	B. D. +53° 541	0.85	4	2 25 55.88	4	54 6 8.2
B. D. +37° 452	0.90	4	1 54 18.55	4	38 6 44.8	B. D. +52° 595	0.86	4	2 27 16.86	4	52 23 26.1
B. D. +39° 450	0.89	4	1 54 28.78	4	+39 28 55.8	B. D. +52° 597	0.85	4	2 27 23.12	4	+52 57 53.8
B. D. +40° 421	0.91	4	1 54 41.29	4	+40 52 34.9	B. D. +51° 594	0.88	4	2 27 39.73	4	+51 31 57.2
B. D. +38° 392	0.90	4	1 54 46.83	4	39 8 29.8	B. D. +50° 587	0.87	4	2 28 23.88	4	50 45 2.3
B. D. +38° 391	0.88	4	1 54 48.49	4	39 7 21.5	B. D. +53° 546	0.85	4	2 28 31.94	4	53 14 57.0
B. D. +40° 423	0.88	4	1 55 9.06	4	40 43 39.8	B. D. +53° 547	0.87	4	2 28 34.74	4	53 52 42.6
B. D. +53° 437	0.90	5	1 55 22.69	5	53 32 1.0	B. D. +51° 598	0.85	4	2 29 15.65	4	52 2 59.3
B. D. +53° 439	0.87	4	1 55 38.38	4	54 0 15.4	B. D. +51° 599	0.88	4	2 29 55.80	4	51 31 28.3
B. D. +39° 454	0.88	4	1 55 45.20	4	40 11 2.8	B. D. +52° 602	0.85	5	2 30 52.52	5	52 22 39.9
B. D. +54° 444	0.84	4	1 56 26.93	4	54 45 0.0	B. D. +50° 589	0.86	4	2 31 23.14	4	50 26 1.4
B. D. +37° 465	0.90	4	1 56 38.18	4	38 3 42.2	B. D. +51° 604	0.87	4	2 31 37.46	4	51 38 37.2
B. D. +53° 440	0.85	4	1 56 44.99	4	+54 12 42.8	B. D. +37° 589	0.89	4	2 32 10.06	4	+37 31 9.9
B. D. +55° 484	0.89	5	1 57 4.11	5	+55 17 12.8	B. D. +50° 595	0.86	4	2 32 25.02	4	+50 21 3.7
B. D. +37° 468	0.90	4	1 57 6.31	4	38 9 53.0	B. D. +49° 733	0.87	4	2 32 49.22	4	50 5 13.0
B. D. +54° 448	0.85	4	1 57 6.41	4	54 35 21.2	B. D. +52° 609	0.86	4	2 33 23.92	4	52 22 33.6
B. D. +39° 457	0.90	4	1 57 45.25	4	39 34 30.5	B. D. +50° 599	0.89	4	2 33 31.94	4	51 11 39.0
B. D. +54° 452	0.85	4	1 57 58.02	4	54 16 33.2	B. D. +50° 601	0.87	4	2 33 42.74	4	51 11 34.5
B. D. +54° 453	0.86	4	1 58 17.98	4	55 8 35.9	B. D. +40° 567	0.86	5	2 34 12.32	5	40 53 9.3
B. D. +38° 402	0.90	4	1 58 43.39	4	38 57 18.4	B. D. +49° 741	0.88	4	2 34 18.28	4	49 34 55.9
B. D. +54° 457	0.85 0.87	4	1 59 8.42	3	54 26 55.7	B. D. +49° 743	0.88	4	2 34 25.04	4	49 41 20.9
B. D. +39° 464	0.90	4	1 59 43.28	4	39 16 52.6	B. D. +37° 596	0.91 0.95	5	2 34 54.30	5	37 48 15.2
B. D. +53° 451	0.88	4	2 0 3.10	4	+53 49 48.8	B. D. +51° 616	0.86	4	2 35 21.66	4	+52 0 20.8
B. D. +38° 408	0.91	4	2 0 22.64	4	+38 25 18.4	B. D. +39° 609	0.90	4	2 35 37.90	4	+40 4 41.8
B. D. +39° 468	0.88	4	2 0 30.35	4	40 7 15.5	B. D. +40° 570	0.86	5	2 35 38.40	5	40 57 58.0
B. D. +53° 453	0.85	4	2 1 36.54	4	54 7 37.9	B. D. +51° 618	0.88	4	2 35 38.81	4	51 28 31.2
B. D. +37° 486	0.90	4	2 2 27.09	4	37 23 5.1	B. D. +41° 517	0.91	5	2 35 47.42	5	41 44 52.3
B. D. +55° 527	0.90 0.85	3	2 2 48.21	4	55 22 45.4	B. D. +52° 616	0.87	4	2 35 56.70	4	53 5 58.8
B. D. +38° 416	0.90	4	2 2 49.10	4	38 52 25.5	B. D. +39° 613	0.92	4	2 36 14.20	4	39 21 55.2
B. D. +37° 488	0.90 0.92	5	2 2 54.48	4	38 3 19.7	B. D. +52° 617	0.86	4	2 36 19.74	4	52 19 48.1
B. D. +54° 469	0.86	4	2 3 9.26	4	55 0 48.3	B. D. +42° 610	0.88	4	2 36 34.77	4	42 35 5.4
B. D. +53° 459	0.88	4	2 3 20.94	4	53 51 27.6	B. D. +51° 620	0.93	7	2 36 38.24	7	51 59 16.9
B. D. +53° 460	0.87	4	2 3 24.92	4	+53 22 14.7	B. D. +50° 613	0.90	4	2 36 40.21	4	+51 6 29.1
B. D. +54° 470	0.85	4	2 3 27.92	4	+54 49 6.6	B. D. +49° 752	0.88	4	2 36 45.99	4	+49 57 33.8
B. D. +53° 470	0.86 0.85	5	2 4 59.71	4	54 4 47.1	B. D. +49° 753	0.90	5	2 36 47.85	5	50 10 19.5
B. D. +54° 483	0.86	4	2 6 11.50	4	54 38 27.3	B. D. +42° 613	0.90	4	2 37 4.84	4	42 46 54.1
B. D. +53° 474	0.88	4	2 6 26.17	4	53 44 57.2	B. D. +42° 614	0.87	4	2 37 6.20	4	43 6 45.6
B. D. +54° 494	0.85	4	2 7 42.19	4	54 50 56.5	B. D. +42° 615	0.90	4	2 37 6.66	4	42 11 44.8
B. D. +53° 485	0.87	4	2 7 58.35	4	53 34 28.2	B. D. +40° 577	0.88	4	2 37 21.07	4	41 4 22.0
B. D. +53° 486	0.84	4	2 8 4.94	4	54 3 51.6	B. D. +48° 746	0.89	4	2 37 22.04	4	48 48 20.6
B. D. +55° 551	0.85	4	2 8 6.38	4	55 16 48.0	B. D. +50° 617	0.88	4	2 37 24.19	4	50 47 57.8
B. D. +54° 497	0.86	4	2 8 17.23	4	54 37 13.7	B. D. +43° 566	0.86	4	2 37 34.29	4	43 52 19.3
B. D. +52° 549	0.87	4	2 8 28.09	4	+53 6 39.4	B. D. +40° 581	0.91	4	2 37 52.95	4	+40 21 34.6
B. D. +54° 500	0.85	4	2 8 34.42	4	+55 7 42.2	B. D. +46° 622	0.87	4	2 37 53.56	4	+46 25 11.0
B. D. +53° 494	0.85	4	2 11 6.98	4	54 0 2.9	B. D. +40° 582	0.90	4	2 37 56.22	4	40 40 56.3
B. D. +53° 497	0.87	4	2 11 34.92	4	53 49 0.0	B. D. +50° 620	0.86	4	2 38 4.90	4	50 18 13.4
B. D. +54° 511	0.85	4	2 11 35.78	4	55 4 41.1	B. D. +44° 569	0.87	4	2 38 11.99	4	45 10 35.4
B. D. +52° 563	0.86	4	2 12 6.10	4	53 6 51.0	B. D. +50° 623	0.90	4	2 38 32.92	4	51 9 45.2
B. D. +53° 501	0.86	4	2 12 6.50	4	53 38 0.8	B. D. +48° 750	0.88 0.86	4	2 38 56.24	5	48 32 8.0
B. D. +54° 525	0.84	4	2 14 4.08	4	54 56 55.2	B. D. +47° 692	0.86	4	2 38 58.52	4	47 43 16.5
B. D. +53° 507	0.85	4	2 14 20.18	4	54 3 3.8	B. D. +41° 530	0.90	4	2 39 12.26	4	42 6 18.9
B. D. +53° 513	0.87	4	2 14 54.63	4	53 47 26.7	B. D. +46° 628	0.87	4	2 39 23.03	4	46 48 42.6
B. D. +54° 530	0.86	4	2 15 44.17	4	+54 37 21.6	B. D. +40° 589	0.90	4	2 39 28.90	4	+40 29 21.9

NAME.	MEAN DATE.	NO. OBS.	RIGHT ASCENSION 1900.0	NO. OBS.	DECLINATION 1900.0	NAME.	MEAN DATE.	NO. OBS.	RIGHT ASCENSION 1900.0	NO. OBS.	DECLINATION 1900.0
	1900+		h m s		° ' "		1900+		h m s		° ' "
B. D.+50° 627	0.86	4	2 39 29.46	4	+50 11 44.9	B. D.+49° 782	0.88	4	2 42 58.90	4	+49 35 53.7
B. D.+48° 752	0.89	4	2 39 35.54	4	48 56 22.0	B. D.+44° 582	0.90	4	2 43 4.77	4	44 59 17.7
B. D.+39° 628	0.91	4	2 39 37.95	4	40 11 27.4	B. D.+47° 709	0.90	4	2 43 21.29	4	47 43 50.9
B. D.+44° 573	0.87	4	2 39 44.41	4	45 1 45.8	B. D.+43° 583	0.87	4	2 43 26.39	4	43 23 52.6
B. D.+40° 590	0.88	4	2 39 47.55	4	41 2 23.2	B. D.+42° 637	0.86	4	2 43 27.63	4	42 23 3.9
B. D.+51° 626	0.88	4	2 39 53.32	4	51 47 4.1	B. D.+46° 644	0.87 0.92	4	2 43 34.66	3	46 59 53.1
B. D.+43° 574	0.93	5	2 40 0.90	5	43 20 39.3	B. D.+40° 610	0.90	4	2 43 51.61	4	40 24 16.5
B. D.+51° 628	0.88	4	2 40 6.38	4	51 43 41.1	B. D.+47° 711	0.89	4	2 43 53.29	4	47 52 33.6
B. D.+45° 660	0.88	4	2 40 33.96	4	45 29 47.2	B. D.+45° 665	0.86 0.89	5	2 44 0.50	4	45 25 21.4
B. D.+41° 538	0.90	5	2 40 42.66	5	+41 45 19.2	B. D.+40° 612	0.87	4	2 44 5.71	4	+40 52 58.2
B. D.+42° 628	0.90	4	2 40 53.14	4	+42 58 57.3	B. D.+42° 638	0.86	5	2 44 6.27	5	+42 54 1.0
B. D.+43° 576	0.86	4	2 40 58.90	4	43 51 9.7	B. D.+43° 586	0.90	4	2 44 6.83	4	43 56 39.2
B. D.+44° 577	0.88	4	2 41 0.73	4	44 50 45.1	B. D.+41° 550	0.91	4	2 44 7.40	4	41 31 49.4
B. D.+49° 773	0.94 0.89	3	2 41 5.18	4	49 39 33.7	B. D.+45° 667	0.88	4	2 44 9.51	4	45 39 30.7
B. D.+50° 630	0.90	4	2 41 6.04	4	51 7 57.5	B. D.+48° 770	0.89	4	2 44 19.68	4	48 56 9.6
B. D.+47° 698	0.86	4	2 41 20.25	4	47 46 43.8	B. D.+47° 714	0.90	5	2 44 39.98	5	48 5 32.7
B. D.+48° 760	0.89	4	2 41 25.47	4	48 48 6.8	B. D.+45° 669	0.86 0.89	5	2 44 55.72	4	45 34 25.9
B. D.+41° 541	0.94 0.91	5	2 41 26.35	4	41 26 54.2	B. D.+46° 648	0.86	4	2 44 59.93	4	46 25 46.5
B. D.+50° 636	0.86 0.82	4	2 41 35.78	3	50 28 44.4	B. D.+44° 591	0.86	5	2 45 6.78	5	44 38 47.5
B. D.+43° 579	0.90	4	2 41 43.56	4	+43 12 15.0	B. D.+44° 593	0.87	4	2 45 16.87	4	+44 28 54.8
B. D.+47° 700	0.88	4	2 41 43.85	4	+48 2 9.8	B. D.+48° 777	0.86	4	2 45 20.18	4	+48 28 14.6
B. D.+46° 638	0.87	4	2 41 50.69	4	46 32 47.1	B. D.+47° 720	0.89	4	2 45 37.38	4	47 30 4.0
B. D.+48° 762	0.89 0.95	4	2 42 1.38	3	48 45 59.3	B. D.+48° 782	0.87	4	2 45 38.78	4	49 5 23.8
B. D.+40° 602	0.90	4	2 42 4.32	4	40 33 40.2	B. D.+47° 721	0.86	4	2 45 50.98	4	48 0 31.7
B. D.+41° 543	0.91	4	2 42 12.56	4	41 59 48.8	B. D.+43° 593	0.87	4	2 45 52.77	4	43 21 43.3
B. D.+42° 633	0.86	4	2 42 12.86	4	42 18 57.6	B. D.+41° 556	0.91	4	2 45 54.78	4	41 36 33.6
B. D.+47° 702	0.90	5	2 42 19.32	5	47 12 30.7	B. D.+42° 643	0.90	4	2 46 6.26	4	42 21 30.0
B. D.+48° 763	0.89	4	2 42 27.60	4	48 53 4.6	B. D.+46° 652	0.87	4	2 47 16.62	4	46 45 7.5
B. D.+51° 633	0.90	4	2 42 28.18	4	51 13 35.7	B. D.+42° 650	0.89	4	2 48 26.81	4	42 48 21.8
B. D.+46° 641	0.87	4	2 42 28.22	4	+46 48 4.7	B. D.+46° 656	0.87	4	2 48 48.45	4	+46 53 51.7
B. D.+43° 580	0.90	4	2 42 34.73	4	+43 53 52.8	B. D.+45° 679	0.88	4	2 49 15.01	4	+45 26 1.0
B. D.+48° 764	0.86	4	2 42 43.35	4	48 27 49.4	B. D.+44° 598	0.87	4	2 49 28.90	4	+44 34 37.9
B. D.+45° 662	0.87	4	2 42 55.02	4	+45 59 10.8						

RESULTS OF OBSERVATIONS OF EROS.

DATE.	WASHINGTON MEAN TIME.	APPARENT RIGHT ASCENSION.	APPARENT DECLINATION.	LOG $p\Delta$.	DATE.	WASHINGTON MEAN TIME.	APPARENT RIGHT ASCENSION.	APPARENT DECLINATION.	LOG $p\Delta$.
1900	h m s	h m s	° ' "		1900	h m s	h m s	° ' "	
Oct. 16	12 57 5.85	2 38 15.45	+50 16 19.2	0.2451 _n	Dec. 10	8 10 53.76	1 28 6.76	+47 7 13.4	0.1080 _n
19	12 42 13.98	2 35 10.80	51 9 28.3	0.2767 _n	11	8 7 36.27	1 28 45.29	46 43 45.5	0.0874 _n
20	12 37 7.50	2 34 0.03	51 26 8.6	0.2862 _n	12	8 4 25.11	1 29 30.16	46 19 58.1	0.0654 _n
21	12 31 56.77	2 32 45.01	51 42 15.2	0.2951 _n	13	8 1 19.86	1 30 20.96	45 55 54.9	0.0421 _n
24	12 15 58.59	2 28 33.86	52 26 51.4	0.3189 _n	14	7 58 20.78	1 31 17.95	45 31 37.2	0.0171 _n
26	12 4 59.44	2 25 26.01	+52 53 8.3	0.3323 _n	19	7 44 54.69	1 37 32.44	+43 27 18.2	9.8597 _n
27	11 59 24.15	2 23 46.36	+53 5 9.8	0.3382 _n	21	7 40 11.83	1 40 41.92	+42 36 36.6	9.7743 _n
29	11 48 3.35	2 20 16.81	53 26 50.7	0.3488 _n	26	7 29 56.32	1 50 7.51	40 28 27.0	9.4271 _n
Nov. 4	11 12 47.02	2 8 34.00	54 10 59.1	0.3695 _n	28	7 26 23.91	1 54 27.64	39 36 54.5	9.1327 _n
5	11 6 58.63	2 6 42.22	54 15 5.2	0.3714 _n	1901				
9	10 43 5.18	1 58 30.06	+54 21 28.5	0.3743 _n	Jan. 1	7 20 11.29	2 4 0.23	+37 53 46.0	9.1074
12	10 25 14.84	1 52 26.45	+54 15 35.9	0.3716 _n	2	7 18 48.14	2 6 33.41	+37 27 58.9	9.2878
21	9 34 7.37	1 36 39.46	53 3 30.1	0.3375 _n	4	7 16 12.82	2 11 50.78	36 36 25.8	9.5127
27	9 3 38.57	1 29 44.99	51 34 56.8	0.2911 _n	8	7 11 42.99	2 23 6.44	34 53 32.6	9.7696
30	8 49 48.58	1 27 42.39	50 40 55.1	0.2601 _n	16	7 5 1.82	2 47 56.63	31 29 3.7	0.0448
Dec. 5	8 28 57.89	1 26 31.07	48 58 27.7	0.1939 _n	18	7 3 45.73	2 54 33.44	30 38 22.8	0.0924
6	8 25 8.56	1 26 37.67	+48 37 52.2	0.1793 _n	22	7 1 37.90	3 8 11.48	+28 57 39.6	0.1736