

1.



3

Hour Angle  
End

6481

 $\alpha$  Aquilae 19 47.9 $+8^{\circ} 43'$ 

(1941)

p.4

Hour Angle  
End

Declination

Seeing

Ptg. Mag.

REMARKS

DAVID DUNLAP OBSERVATORY  
74" LOGBOOK

VOL 10

PLATE NOS. 7117 - 8229

SEPT 1941 - SEPT 1942



Julian Day

Date

Pointer set at

Hour Angle End	Declination	Seeing	Ptg. Mag.	Gmp	REMARKS
					<p>M.C. SC S.W. M.T. ST</p> <p>Sep. 26 12 +07.0 -28.9 -04.4 -07.6 -0.2<sup>m</sup></p> <p>Cloudy all early evening; tentatively clearing a few times around midnight.</p>
		0	6.89	A <sub>5</sub> 2	K.S.A. 2 H
					<p>Sky clouding up shortly after start, waited for an hour, sky still thick, closes up! Phooie</p>
					<p>MC SC MT ST</p> <p>Oct. 6 14 +12.8 -55.8 +23.0 -0.1<sup>m</sup></p>

7

1941

Date Oct 7-8 Tues. Y-L

Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
7117	HD 216716	22 50.0	30 56	I-12	E103-0	010	21.0	8 02	9 00	2
7118	HD 222416	23 35.3	44 31	"	"	"	20.7	9 05	10 03	3
7119	HD 5596	00 52.6	45 03	"	"	"	20.7	10 10	11 00	4
7120	HD 3229	00 30.4	-01 04	"	"	"	20.9	11 07	11 33	1
<del>7121</del>	<del>HD 15814</del>	<del>02 27.5</del>	<del>14 36</del>	"	"	"				2
	HD 18040									
Wed. Oct 8-9 L-C										
Intermittent clearing and openings and clouding and closings										
Lost hope at 3:30										

Aluminum coat. on mirror  
Telescope wet all day. drying  $\frac{1}{2}$  at night

Julian Day

Date

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp.	REMARKS
9 00 2	1 <sup>h</sup> 05 E	31 10	2-1	741 AD	2-2-2	M very windy west
10 03 3	45 E	44 45	2-1	745 B9	2-2-2	M " " "
11 00 4	1 <sup>h</sup> 07 E	45 16	2	725 A3	2-2-2	H wind going down.
11 33 1	15 <sup>m</sup> E		2	643 F8	2-2-	<sup>Hd</sup> BSC clouds. Clouded up after this exposure. Still thick at 2:00! closed up and went home! numbered 712! by mistake
				649 F5		

Oct. 10    6    MC    SC    SW    A.W.    SW  
             13    +14.2    -67.2       +22.2    -0.1<sup>m</sup>





Julian Day

Date

Ending Time  
E.S.T.Hour Angle  
End

Declination

Seeing

Ptg. Mag.

C

Declination  
1900

REMARKS

Object

Plate No.

7 10 2

17 44

1-0

6.93

A2

2-4

H<sup>d</sup> Squally, had to close for fear of rain

11

Date 1941 Sunday Oct 12-13 C Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
<del>7172</del>	<del>H.D. 201345</del>	<del>21 037 30</del>	<del>27</del>	<del>1-12 1/2</del>	<del>E-103-0</del>		<del>12.0°</del>	<del>20 26</del>		
7122	H.D. 210208	22 087 42	27	1-12 1/2	E-103-0	.010	11.5	20 57	21 57	
		1941	27 Sunday October 13-14 H-L cloudy all evening							

Ending Time  
E.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp.	REMARKS
			7.52 B <sub>0</sub> 2		<del>SA as wrong star!</del>
17 01	00 42 40	1-2	7.50 B <sub>9</sub> 2.2 2		KSA 41 M slight haze at first. * no more plates out (R)
					quite a bit of fog in the night
					in fact
					* Reported on 201303 (wrong star) name on comparison on 210203. That it shifted sufficiently.

13

Date 2-17-1952

V-2

Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
7121	AD 11122	19 20 2	17 38	7 12	E10313	012	15.5	7 16	8 00	P.
7122	HD 202313	21 09 9	30 33	"	"	"	15.6	8 04	9 05	
7125	HD 205412	21 37 3	57 08	"	"	"	15.5	9 13	10 01	
7126	HD 4388	00 40 77	25				14.1	23 14	00 29	
7127	HD 12314	28 02 14	33				14.2	20 51	01 21	
7128	HD 31500	21 31 12	32				14.3	21 26	02 15	
7129	HD 07222	18 41 49	41				14.4	21 31	04 01	
7130	HD 234-1	35 07 11	26				14.5	07 07	01 11	
7131	HD 3704A	25 11 22	25				14.5	11 23	02 13	

Ending Time  
E.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp	REMARKS
1 49 W	17 44	1	6.93	A <sub>3</sub>	2-2-2	Hd clearing - still thick
1 08 W	30 43	1-2	7.56	A <sub>0</sub>	2-2-2	Y
1 17 W	59 18	1-0	7.50	F <sub>5</sub>	2-4	H clouds - not visible
0 58 W	77 39	0	6.79	A <sub>2</sub>	2-2-2	72 H
1 00 W	14 48	0	6.49	F <sub>5</sub>	2-2-2	70 Y
1 11 W	10 38	0	7.57	F <sub>0</sub>	2-2-2	71 M
1 15 W	27 48	0	7.23	F <sub>0</sub>	2-2-2	73 Fd
1 17 W	12 26	1	7.33	F <sub>0</sub>	2-2-2	73 M
1 42 W	29 38	1	7.25	A	2-2-2	77 M

Oct. 15      MC      SC      \* MT      ST  
 +15      -1.24      -25<sup>s</sup>      -0.1<sup>m</sup>



Printed out at 7:15 and played in

Ending Time  
E.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp	REMARKS
1 <sup>10</sup> W	13 00	1	6.98 B <sub>2</sub>	2-2-2	34 M
1 <sup>34</sup> W	17 41	1	7.37 K <sub>2</sub>	2-2-2	17 H
1 <sup>55</sup> W	45 55	1-2	7.96 A <sub>2</sub>	2-2-2	39 H
1 <sup>18</sup> W	38 41	0.4	6.69 B <sub>2</sub>	2-2-2	64 M
2 <sup>04</sup> W	42 10	0.1	7.15 B <sub>3</sub>	2-2-2	40 M
3 <sup>16</sup> W	47 19	0.1	7.50 A <sub>2</sub>	2-2-2	40 Y
	49 38	0.1	7.96 A <sub>1</sub>	2-	43 H
					clap on back to close
					clap on back for 2 hours 2 min
					by 8:00

\* This night's plates unloaded into an Astria II box, in drawer in the clock room.



Date

Oct 14-1942 45

Julian Day

Plate No.	Object	R. A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
7138	147279	19 44.1	31 15	I 183	F-103	S C15	10.5	06 16	07 02	2
7139	193339	19 24.0	57 49	"	"	"	10.5	07 06	07 30	3
7140	186672	19 40.7	60 19	"	"	"	10.5	07 34	07 58	4
7141	200039	20 53.0	75 32	"	"	"	10.5	08 02	08 42	1
7142	221827	23 30.4	53 38	"	"	"	10.5	08 47	09 09	2
7143	221827	23 30.4	53 38	"	"	"	10.5	09 14	09 39	3
7144	221142	23 54.4	85 32	"	"	"	10.5	09 45	10 09	4
7145	221827	23 30.4	53 38	"	"	"	10.5	10 15	11 09	1
7146	225093	23 58.3	72 36	"	"	"	10.5	11 13	00 22	2
7147	12049	02 43.8	47 30	"	"	"	10.3	03 30	04 11	1
7148	12049	02 43.8	47 30	"	"	"	10.3	04 05	04 53	1
7149	21727	21 21.2	57 44	"	"	"	10.3	04 53	05 23	1
7150	22411	03 42.4	15 15	"	"	"	10.3	05 25	05 52	1
7151	29114	04 36.27	43 43	"	"	"	10.3	05 04	05 34	2
7152	50835	15 28.31	41 41	"	"	"	10.1	05 52	06 38	1
7153	2717	07 11.2	18 18	"	"	"	10.2	04 41	05 17	1

2 Aug 1952

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp	REMARKS
0 30	W	58 55	0-1	7.74	A <sub>0</sub>	2-2-2 ASA 64 M
1 07	W	31 22	0-1	6.65	A <sub>0</sub>	2-2-2 " " M
1 56	W	57 55	0-1	6.41	B <sub>3</sub>	2-2-2 " 17 M
2 23	W	62 26	1	6.70	A <sub>2</sub>	2-2-2 " " H Star looks faint (about 7.2)
1 36	W	75 44	1	6.95	G <sub>5</sub>	2-2-2 " 7 H
1 53	W	63 23	1	6.45	B <sub>8</sub>	2-2-2 " 18 H
0 53	W	86 06	1-0	6.89	F <sub>0</sub>	2-2-2 " 1 H
1 01	W	85 50	1-0	7.32	A <sub>5</sub>	2-2-2 " 1 H
1 45	W	92 49	1-0	7.58	A <sub>2</sub>	2-2-2 " 2 H
0 07	E	57 27	2	7.58	A <sub>2</sub>	2-2-2 " 9 M
2 23	W	76 15	2	7.26	A <sub>1</sub>	2-2-2 " 22 H faintly visible
0 18	W	59 02	1-0	6.06	A <sub>0</sub>	2-2-2 " 9 M
2 42	W	52 23	1-0	6.25	B <sub>0</sub>	2-2-2 " 23 M still faint
2 45	W	27 49	2	7.38	A <sub>0</sub>	2-2-2 " 48 H
0 33	W	21 30	2	7.35	A <sub>1</sub>	2-2-2 " 49 H
0 45	W	21 20	1	7.40	B <sub>8</sub>	2-2-2 " " A <sub>1</sub>

CONTINUED OVER.



Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
	1 15 W 45	54	2	734	G 5 22	K.S.A. 25 Y
	1 40 W 45	37	1-2	660	A 0 22	" 25 Hd
						h    mC    SC    SW    MT, ST Oct. 17    13    +197    -1 23.5    -47.0    -050-00



Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Remarks
01	31W 63	08	0	7.40 A5	222 KSA 18 H
0	57W 44	59	0	6.14 A2	222 41 H
0	38W 44	45	0	7.45 B2	222 43 M
1	37W 46	34	0	7.23 B1	222 43 M

Oct 20 1953  
 2 40 50 50 47 27  
 +23.4 -1273 -1024 -1116 450

23

Date Monday Oct 20-21, 1941 H-L Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	H	Hour Angle End
	HD 203991	21 20.5	+18 02	I-12	E103-0	010					
		Tues. Oct 21-22			Y-C						
7160	HD 197640	19 45.9	+28 12	T 12	E103-0	010	13.1	5 58	6 10	1	SW
7161	HD 192954	20 11.6	+15 33	"	"	"	13.3	6 14	6 46	2	SW
7162	HD 196687	20 33.9	+42 38	"	"	"	13.1	6 51	7 15	3	SW
7163	HD 198195	20 43.6	+42 03	"	"	"	13.0	7 18	7 40	4	SW
7164	HD 198690	20 47.0	42 01	"	"	"	12.0	7 43	8 05	1	SW
7165	HD 199154	20 50.2	47 53	"	"	"	13.0	8 11	8 41	2	SW
7166	HD 207990	21 48.1	61 09	"	"	"	13.0	8 46	9 26	3	SW
7167	HD 204231	21 22.1	57 39	"	"	"	13.0	9 33	10 03	4	SW
7168	HD 216951	22 51.3	43 02	"	"	"	13.0	10 10	11 00	1	SW
7169	HD 224380	23 52.3	47 43	"	"	"	13.0	11 06	11 56	2	SW
7170	HD 20193	3 09.6	32 29	"	"	"	13.0	00 03	00 23	3	SE

Cloudy in evening. Stars streaming out.  
 opened up 21<sup>00</sup>

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Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp.	REMARKS
				747	F0	Clouded before telescope was started. closed shutter 21 <sup>25</sup> closed up 22 <sup>00</sup>
6 00	5 <sup>m</sup> W	28 18	3	624	B8	2-2-2 H
6 20	14 <sup>m</sup> W	15 41	3	732	B5-A	2-2-2 M Could see both stars @ A or 180±?
7 15	22 W	42 47	3	706	A0	2-2-2 Hd
7 30	38 W	42 12	3	704	B9	2-2-2 Hd
8 00	59 <sup>m</sup> W	42 10	3	715	B8	2-2-2 M
8 41	1 32 W	48 04	3-2	723	A5	2-2-2 Y Blew blue line!
2 06	1 20 W	61 22	2	719	A2	2-2-2 Y double.
10 00	2 23 W	57 50	2	756	F8	2-2-2 H
11 00	1 50 W	43 14	2	756	B5	2-2-2 M New Emulsion
11 36	1 40 W	47 56	2-3	746	A0	2-2-2 H
	1 15 E	32 30	2	662	F0	2-2-2 Y

Continued OVER





Date

2-20-20

Y

X-C

[Cont.]

Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
7171	HD 21540	03 234	46 42	15123	F 1000	010	12.9	00 28	00 38	1
7172	21641	03 305	37 31				12.9	01 03	01 29	2
7173	21849	03 462	47 34				13.0	01 33	02 00	3
7174	22402	03 412	43 15				13.0	01 58	02 29	4
7175	23646	04 30	25 25				12.7	02 13	02 39	1
7176	24384	05 119	25 41				12.9	02 30	03 00	2
7177	26454	05 069	32 44				13.0	03 58	04 11	3
7178	25537	06 117	18 02				12.8	04 14	05 14	1
7179	27256	06 124	27 53				12.9	05 22	06 04	1

Ending Time  
E.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
11 43 E	46 51	2	6.95	B <sub>2</sub> 2.4	FSA 23 M
0 15 E	47 40	2-3	6.75	B <sub>2</sub> 2.2 2	23 M
0 26 W	47 44	3	6.97	F <sub>0</sub> 2.2 2	23 Y
0 28 W	47 34	3	6.95	B <sub>2</sub> 2.2 2	23 M
0 30 E	48 30	3	5.68	A <sub>0</sub> 2.2 2	48 →
0 31 W	48 42	1	7.13	A <sub>2</sub> 2.2	49 Y
0 25 W	48 45	2-3	6.12	A <sub>0</sub> 2.2.2	49 M
2 45 W	48 21	1	7.42	A <sub>0</sub> 2.2.2	50 41.
2 47 W	47 50	2	7.16	A <sub>2</sub> 2.2 2	50 41



Ending Time  
E.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.		Comb	REMARKS
+1 01	+12 45	1	7.57	F <sub>2</sub>	2-2-2	KSA 88 ✓ Few clouds
+1 21	+45 00	1-2	6.62	A <sub>0</sub>	2-2-2	40 H
+1 21	+42 43	1-2	7.21	B <sub>8</sub>	2-4	40 M Hwy but SC came up; ocul sprkl Circ. artif. sprk + ...

29

Date

Sunday Oct 20 1941

Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	How Angle Ind
7183	HD 184745	19 34.5	+43 43	2-12	Eastman	2.0	+6.1	17 54	18 22	4
7184	19 35.2	19 57.2	+42 45	"	"	"	+6.1	18 35	19 04	1
7185	19 35.5	20 51.0	+42 28	"	"	"	+6.1	19 08	19 37	2
7186	19 33.1	20 39.3	+43 53	"	"	"	+6.1	18 31	19 00	3
7187	22 14.5	01 26.8	+77 20	"	"	"	+6.0	22 03	22 33	5
7188	23 15.1	22 27.3	+77 05	"	"	"	+6.1	22 27	23 01	1
7189	23 16.0	23 31.0	+73 43	"	"	"	+6.1	22 58	23 24	2
7190	23 52.1	21 33.2	+72 24	"	"	"	+6.1	23 27	23 47	3
7191	40 44.0	43 6.4	+73 27	"	"	"	+6.0	23 51	24 11	1
7192	17 18.6	02 31.0	+87 31	"	"	"	+6.1	0 16	0 36	1
7193	19 52.1	02 44.3	+63 00	"	"	"	+6.0	0 33	1 11	3
7194	17 4.3	02 40.2	+87 23	"	"	"	+6.1	1 14	1 54	3
7195	21 02.7	02 32.2	+87 22	"	"	"	+6.1	1 57	2 29	4
7196	21 32.2	02 42.0	+58 28	"	"	"	+6.1	2 31	2 58	1

Cloudy - pretty cloudy all day. clearing at dusk

p. 30

St. Louis - 20.2

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS	
2:22	2 45 W	+43 49	2	6.57	50	2-2-2	KEA 39 H
2:24	2 46 W	+43 48	2	7.00	58	2-2-2	SS H
2:26	2 47 W	+43 48	2	6.97	39	2-2-2	70 H
2:28	2 48 W	+43 48	2-3	6.52	38	2-2-2	40 H
	2 49 W	+43 48					
	2 50 W	+43 48					
	2 51 W	+43 48					
	2 52 W	+43 48					
	2 53 W	+43 48					
	2 54 W	+43 48					
	2 55 W	+43 48					
	2 56 W	+43 48					
	2 57 W	+43 48					
	2 58 W	+43 48					
	2 59 W	+43 48					
	3 00 W	+43 48					
	3 01 W	+43 48					
	3 02 W	+43 48					
	3 03 W	+43 48					
	3 04 W	+43 48					
	3 05 W	+43 48					
	3 06 W	+43 48					
	3 07 W	+43 48					
	3 08 W	+43 48					
	3 09 W	+43 48					
	3 10 W	+43 48					
	3 11 W	+43 48					
	3 12 W	+43 48					
	3 13 W	+43 48					
	3 14 W	+43 48					
	3 15 W	+43 48					
	3 16 W	+43 48					
	3 17 W	+43 48					
	3 18 W	+43 48					
	3 19 W	+43 48					
	3 20 W	+43 48					
	3 21 W	+43 48					
	3 22 W	+43 48					
	3 23 W	+43 48					
	3 24 W	+43 48					
	3 25 W	+43 48					
	3 26 W	+43 48					
	3 27 W	+43 48					
	3 28 W	+43 48					
	3 29 W	+43 48					
	3 30 W	+43 48					

Some things with  
15.0, 32

p. 31

Date .....

Julian Day .....

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End

Tuesday Dec 10 - Y, L + 10 shifted mirrors to get down on back support.  
 Friday 14 - Y + B<sub>2</sub> centers & focusses tel.

Ending Time  
E.S.T.

Hour Angle  
End

Declination

Seeing

Ptg. Mag.

REMARKS

Date	Hour Angle	Declination	Seeing	Ptg. Mag.	Remarks
Oct 29	13	+33.0		+44.1	MC SC 8W A70 100 +33.0 +0.7 Rut
Nov 3	13	+42.5		-	
	7			+27.9	-22 -56 +1.8
	10	+55.1		+22.6	+02.2 -05.3 -0.0 Rut
	12			+19.2	-07.0 +04.0 -0.3
	13	+59.0		+07.1	+05.6 +09.4 +0.2
	14	+48.6		+01.0	+01.8 +14.5 +0.1









24.6

E.P.O.

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp	REMARKS
8.3		42 12	1	7.04	B <sub>9</sub>	2.2.2
10.10	1 36W	74 59	1	7.38	F <sub>5</sub>	2.2.2
20.11	0 07W	42 12	1	6.77	B <sub>9</sub>	2.2.2
	1 17W	85 52	1	7.32	F <sub>5</sub>	2.2.2
	1 41W	75 58	1	7.10	B <sub>9</sub>	2.2.2
	0 49E	27 23	1	5.93	F <sub>5</sub>	2.2.2
	0 13E	17 41	1	6.78	B <sub>9</sub>	2.2.2

Nov. 17 13

MC	SC	8W	HT	ST
+27.8	+10	+22.0	+27.3	+10.5

Stopped -  
next

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Date Sunday, 21 November 1941 H-L Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Blit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
7204	4D 199356	20 51.6	+42 08	I-12	Astria II	5.4 0/0	2.1	17 25	17 55	1
7207	199890	20 54.9	+47 18	"	"	"	2.0	17 58	18 32	2
7210	201263	21 03.3	+47 47	"	"	"	2.1	18 41	19 29	3
7211	221215	22 25.0	+74 41	"	"	"	2.1	19 34	19 53	4
7212	221405	22 28.1	+77 20	"	"	"	2.0	19 55	20 21	1
7213	225103	22 55.3	+72 36	"	"	"	2.0	20 27	21 07	2
7214	224890	22 56.5	+73 14	"	"	"	2.0	21 10	21 38	3
	224890	"	"	"	"	"	2.0	21 22	21 45	
7215	1353	20 12.7	+75 43	"	"	"	2.1	21 43	22 18	4
7216	5710	21 21.9	+83 11	"	"	"	2.0	22 07	22 35	
7217	21541	21 23.4	+71 38	"	"	"	2.1	22 40	23 14	2
7218	21530	21 20.4	+73 25	"	"	"	2.0	22 53	23 21	3
7219	21704	21 15.0	+37 33	"	"	"	2.0	23 25	00 06	4
7220	21706	21 31.0	+71 17	"	"	"	2.0	00 44	01 12	1
7221	24031	22 02.2	+73 25	"	"	"	2.0	01 00	01 24	2
7222	24104	22 02.1	+73 18	"	"	"	2.1	01 07	01 45	3

Thermometer 21.7

Strong E-S wind

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.			REMARKS
	0 31 W	+42 17	1	6.87	B9	2-2-2	KSA 40 M Light haze, clearing
	1 11 N	+47 24	1	7.20	B8	2-2-2	40 M
	1 54 W	+47 58	1	7.50	A0	2-2-2	40 M
	0 05 E	+74 55	2-1	6.54	A0	2-2-2	2 H
	0 22 W	+77 35	2	7.04	A0	2-2-2	2 H
	0 36 W	+72 50	2-3	7.58	A2	2-2-2	2 H
	0 59 W	+73 17	3	6.52	A0	2-2-2	2 H Rays
	1 11 W	+78 17	1	6.52	A0	2-2-2	2 H with H above bearing very at
	1 13 W	+78 57	3	7.10	B9	2-2-2	2 H mounted
	0 41 W	+43 23	3	7.20	F2	2-2-2	2 H ← some light E wind with clouds
	0 37 E	+14 47	2	7.32	A0	2-2-2	2 H ← altitude of peak = minor, very good
	0 42 E	+14 52	3	7.02	A0	2-2-2	2 H
	0 39 W	+29 30	3	7.12	B9	2-2-2	42 M S. Bradley. Rays
	1 03 W	+29 34	2-3	6.66	A0	2-2-2	47 M Bright blue sky
	0 23 W	+12 29	2	7.5	A0	2-2-2	72 M Rays
	0 35 W	+12 14	1	6.95	B8	2-2-2	73 M

cast







41

Date 1941. Mar. 18-19 Tuesday Y C Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
							+10.3	5 30		
7227	ND 29,46	07 25.4	28 28	"	"	"	+11.3	00 22	01 12	4
7228	38787	07 26.6	28 31	"	"	"	11.3	01 27	02 27	1
7229	20452	07 26.1	28 25	"	"	"	11.3	03 25	04 25	2
7230	21376	07 27.3	28 31	"	"	"	11.5	03 44	04 44	3
7231	21367	08 28.7	28 28	"	"	"	11.3	04 30	05 30	4
7232	50670	07 24	28 28	"	"	"	11.9	05 20	06 20	5





Ending Time  
E.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
0 12 W	42 23	0	661	A <sub>0</sub>	2.22 454
1 01 W	29 51	0	7.17	A <sub>2</sub>	2.22 51
1 02 W	28 40	1	7.58	F <sub>2</sub>	2.22 52
					CT MC SC SW MT ST
			(WBEN)	Nov. 21	13.5 +32.2 -03.1 +21 +29.8 +0.6
				24	+36.3 -10.5 +17.5 +27.0

*Strong wind blowing*  
*Very dark at 25.10*  
*Transmitted at 6.00.*

*East*

45

Date Monday, Nov 24-25, 1941 H-L Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
7236	HD 200437	20 55.9	+75 52	3-12	E193-2	2.5 210	1.4	17 46	18 02	1
7237	201809	21 07.5	+77 48	"	"	"	1.4	18 04	18 44	2
7238	212702	22 11.2	+78 35	"	"	"	1.4	18 16	19 42	3
7239	202345	22 42.1	+79 50	"	"	"	1.3	18 44	19 49	4
7240	207913	21 46.1	+61 09	"	"	"	1.4	18 18	19 34	1
7242	206482	21 33.8	+57 08	"	"	"	1.4	18 37	19 16	2
7243	221215	23 25.0	+74 01	"	"	"	1.4	20 48	22 04	3
7244	231537	23 27.4	+77 16	"	"	"	1.3	21 01	22 39	4
7245	224812	21 16.5	+72 13	"	"	210	1.4	21 48	22 43	1
7246	235419	23 58.2	+74 14	"	"	"	1.4	21 45	22 51	2
7246	153904	18 00	+70 43	"	"	"	1.2	21 12	22 19	1
7247	168250	21 44	+43 17	"	"	"	1.2	21 55	22 12	4
7248	184412	21 46.3	+47 36	"	"	"	1.1	22 08	22 50	1
7249	205102	21 11.8	+36 15	"	"	"	1.1	22 05	22 41	1
7250	215702	23 25.4	+74 54	"	"	"	1.2	22 44	23 19	3
7251	217702	23 25	+81 28	"	"	"	1.5	22 51	23 43	1

Cloudy at sunset. Gradually clearing

46

Observations at 210

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
1 <sup>02</sup>	W	+75 42	2	6.98	B5 2-2-2	K38-7
1 <sup>05</sup>	W	+77 54	2	6.88	B9 2-2-2	7
1 <sup>27</sup>	W	+78 24	2	7.42	B2 2-2-2	7
1 <sup>55</sup>	W	+75 00	2	7.38	F5 2-2-2	7
1 <sup>43</sup>	W	+61 19	2-3	7.19	B2 2-2-2	18.4
2 <sup>05</sup>	W	+57 13	2	7.53	F5 2-2-2	15.4
0 <sup>44</sup>	W	+75 00	2	6.54	A0 2-2-2	2.4
1 <sup>07</sup>	W	+77 30	2	7.08	A0 2-2-2	2.4
0 <sup>17</sup>	W	+73 13	2	6.52	A0 2-2-2	2.4
1 <sup>00</sup>	W	+72 02	2	7.53	A2 2-2-2	2.4
1 <sup>37</sup>	W	+75 57	2	7.10	B3 2-2-2	2.4
2 <sup>22</sup>	E	+43 16	2	6.72	A2 2-2-2	5.2M
0 <sup>08</sup>	F	+48 07	2	7.26	B2 2-2-2	2.4M
0 <sup>24</sup>	W	+72 07	2-1	7.59	B2 2-2-2	7.1M
1 <sup>40</sup>	W	+71 47	2-1	7.32	A0 2-2-2	7.1M
1 <sup>17</sup>	W	+67 33	2-1	7.12	B2 2-2-2	7.1M

Other  
plate  
needed  
order  
with  
plate

2.4M  
(7.1M) (7.1M) (7.1M)  
plate for 7.1M

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Date

Cont'd

Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
7252	HD 22860	03 35.2	28 23	I-12 $\frac{1}{2}$	E-113-D	Set 010	1.2	00 47	01 09	4
7253	" 34031	05 00.0	12 25	"	"	"	1.2	01 19	01 54	2
7254	" 36425	05 25.5	34 48	"	"	"	1.1	02 00	02 30	3
7255	" 37647	05 36.0	29 17	"	"	"	1.1	02 37	03 13	4
7256	" 43335	06 10.6	17 12	"	"	"	1.1	03 11	03 42	1
7257	" 44901	07 05.6	15 30	"	"	"	1.1	03 47	04 17	2
7258	" 70566	08 19.6	12 35	"	"	"	1.2	04 12	05 12	3
7259	" 71057	08 36.6	32 13	"	"	"	1.2	05 06	05 36	1
7260	" 74202	08 38.1	30 26	"	"	"	1.1	05 42	06 22	1
7261	" 77986	09 03.6	16 15	"	"	"	1.1	06 08	06 38	2

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp	REMARKS
1 29	W	28 30	2-1	6.87	B <sub>7</sub>	2-2-2 3A 47 M
1 41	W	18 27	2-1	7.5	A <sub>0</sub>	73 M
0 53	W	31 49	2-1	7.32	A <sub>2</sub>	49 M
1 34	W	29 27	2	7.96	A	40 M
1 27	W	17 11	2	7.47	K <sub>0</sub>	74 H
1 05	W	15 25	2	7.54	F <sub>0</sub>	75 M
1 40	W	32 29	2	7.52	A <sub>3</sub>	52 M
1 56	W	32 04	2	7.54	F <sub>0</sub>	52 H
1 22	W	32 15	2-1	6.98	A <sub>2</sub>	52 M
1 32	W	16 27	2-1	7.25	B <sub>0</sub>	57 M









Circle 101 of 134

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp	REMARKS														
1 45 W	17 35	1-2	6.50	Fo	2-2-2	KSA 39 Hd Clouds at sunset														
1 35 W	18 12	1	7.47	AO	2-2-2	Hd Clouds 11 <sup>15</sup> -13 <sup>25</sup> Sky falling in sector cut 18 <sup>25</sup> Primarily clear														
						<table border="0"> <tr> <td></td> <td>*</td> <td>MC</td> <td>SC</td> <td>SW</td> <td colspan="2">MT ST</td> </tr> <tr> <td>Nov. 27</td> <td>13</td> <td>+42.9</td> <td>-14.5</td> <td>+21.5</td> <td>-10.5</td> <td>+0.2</td> </tr> </table>		*	MC	SC	SW	MT ST		Nov. 27	13	+42.9	-14.5	+21.5	-10.5	+0.2
	*	MC	SC	SW	MT ST															
Nov. 27	13	+42.9	-14.5	+21.5	-10.5	+0.2														

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Date Thursday Apr 27-1934 Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour angle min
7168	H10 203591	21 505	19 02	I-12 $\frac{1}{2}$	E-1430	Sec .010	4.3	18 35	19 53	1
7169	" 211474	22 112	19 35	"	"	"	4.7	19 35	20 26	1
7170	" 211237	22 335	41 52	"	"	"	4.5	20 30	21 57	3
7171	" 187833	13 345	40 18	"	"	"	4.5	21 00	21 30	2
7172	" 211472	22 112	19 14	"	"	"	4.6	22 00	23 16	1
7173	" 211473	22 112	19 30	"	"	"	4.5	23 22	23 40	1
7174	" 22402	03 213	42 16	"	"	"	4.5	23 44	24 04	3
7275	" 22162	22 162	44 52	"	"	"	4.7	24 14	24 44	1

Continued at p. 55

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp	REMARKS												
9 <sup>51</sup>	2 <sup>19</sup> W	13 12	0	7.47	A <sub>0</sub>	2-2-2	K.S.A. 39 Hd Clouds after sunset											
9 <sup>52</sup>	2 <sup>20</sup> W	29 46	1	7.64	B <sub>0</sub>	2-2-2	" 66 M Light clouds											
9 <sup>53</sup>	1 <sup>27</sup> W	49 11	1	6.77	B <sub>0</sub>	2-2-2	" 43 M Clouds											
9 <sup>54</sup>	2 <sup>01</sup> W	46 33	1	7.01	B <sub>0</sub>	2-2-2	" 43 M											
9 <sup>55</sup>	2 <sup>05</sup> E	17 11	1	6.37	A <sub>0</sub>	2-2-2	" 47 M											
9 <sup>56</sup>	1 <sup>20</sup> W	45 45	1	6.79	F <sub>0</sub>	2-2-2	" 23 Y											
9 <sup>57</sup>	1 <sup>19</sup> W	42 28	1-2	6.65	B <sub>0</sub>	2-2-2	" 23 M											
9 <sup>58</sup>	1 <sup>15</sup> W	41 35	2	6.51	A <sub>0</sub>	2-2-2	" 47 Hd 7-8 Comp stars											
						<table border="1"> <thead> <tr> <th></th> <th>MC</th> <th>SC</th> <th>SW</th> <th>MT</th> <th>ST</th> </tr> </thead> <tbody> <tr> <td>Nov. 28</td> <td>16</td> <td>+44.8</td> <td>-15.7</td> <td>+23.4</td> <td>-04.2 +0.3</td> </tr> </tbody> </table>		MC	SC	SW	MT	ST	Nov. 28	16	+44.8	-15.7	+23.4	-04.2 +0.3
	MC	SC	SW	MT	ST													
Nov. 28	16	+44.8	-15.7	+23.4	-04.2 +0.3													

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Date Friday November 28, 1902 Julian Day 234

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
7174	FD 211918	21 075	+77 43	2-10	2-1000	05	+56	17 22	17 30	1
7177	212425	21 062	+78 15	"	"	"	+55	17 34	18 00	2
7178	211947	21 074	+77 21	"	"	"	+57	18 00	18 30	3
7180	211338	21 034	+72 51	"	"	"	+52	18 00	18 30	4
7181	210208	21 002	+57 23	"	"	"	+53	18 00	18 41	5
7191	221112	22 300	+37 31	"	"	"	+52	18 00	20 05	2
7196	227317	22 306	+37 25	"	"	"	+53	20 00	20 05	3
7199	215617	21 315	+73 06	"	"	"	+56	20 00	20 05	4
7199	224858	22 367	+71 11	"	"	"	+53	21 00	21 00	5
7200	215712	21 355	+73 11	"	"	"	+57	21 00	21 00	6
7205	211	21 051	+45 03	"	"	"	+57	21 00	21 00	7
7206	5771	21 022	+33 11	"	"	"	+57	21 00	21 00	8
7207	3842	21 013	+32 24	"	"	"	+57	21 00	21 00	9
7208	21021	21403	+59 24	"	"	"	+57	21 00	21 00	10
7209	21112	21 302	+67 40	"	"	"	+57	21 00	21 00	11
7210	21264	21 311	+49 24	"	"	"	+57	21 00	21 00	12

Ending Time  
E.S.T.

Hour	Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
10	W	+77 24	1	5.78	39	2-2-2 KSA 7.4 <i>Left edge</i>
12	W	+78 26	1	7.02	72	2-2-2 7.8
15	W	+79 18	1	7.52	40	2-2-2 15.4
17	W	+83 26	1	6.55	38	2-2-2 18.4
24	W	+77 26	1	7.02	40	2-2-2 18.4
28	W	+81 18	1-2	6.89	50	2-2-2 2.0
32	W	+85 22	1-2	7.02	45	2-2-2 1.4
37	W	+87 24	1	7.06	40	2-2-2 3.5
40	W	+88 16	1-2	6.82	40	2-2-2 2.8
45	W	+88 16	1-2	6.82	40	2-2-2 2.4 <del>10</del>
50	W	+84 26	1-2	6.77	34	2-2-2 4.9
55	W	+82 24	2	7.15	32	2-2-2 8.0
58	W	+82 45	2	6.70	24	2-2-2 2.18
59	E	+81 23	1-2	6.43	28	2-2-2 7.0
60	E	+81 53	1	6.41	34	2-2-2
61	E	+79 34	1	6.45	41	2-3 8.0





Ending Time  
E.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
38 14	447 40	2	1.75 300 20112	258 25.00 25.10
38 14	447 40	2-1	2.75 300 2-0-0	47.4 25.10 25.10
38 14	447 40	1.5	3.0 300 3	52.4 25.10 25.10
				changes at 15 15 knots
				38 300 25.10 25.10
				couple of birds seen flying in
				white
				MC SC SW MT ST
				Dec 1 13 stopped -50.2 -03 +17.0 +0.2

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- Dec. 1

Date

Friday, November 19, 1904

Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
7292	HD 201857	21 07.2	27 09	12.5	E-1050	500	3-4°	17 44	18 44	55W
7293	215551	22 04.3	43 01	"	"	"	3-2	18 48	19 48	20
7294	223057	23 01.2	62 45	"	"	"	3-3	19 54	19 44	20
	Transit	21 07.2	27 09		Transit	26.10	7.11	20 3		
7295	170459	14 07.5	17 09	"	"	"	3-5	21 04	21 08	10.2
7296	217250	21 45.0	23 23	"	"	"	3-6	21 51	21 42	11
7297	24701	27 00.5	43 01	"	"	"	3-3	22 45	21 45	3

Temp at 23.3 CPO

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
8:52	1 55W	27 19	0	7.56	A <sub>0</sub> <sup>2</sup>	2.2.2 RSA 85 Y
9:18	1 15W	43 5	0	7.56	B <sub>5</sub> <sup>2</sup>	42 M
9:45	1 21W	2 59	1	7.54	A <sub>0</sub> <sup>2</sup>	37 HJ
			31			Temp spec. 2
10:11	0 31E	7 20	1	7.52	A <sub>0</sub> <sup>2</sup>	70 M
10:38	0 35E	27 31	4	7.12	B <sub>5</sub> <sup>2</sup>	47 HJ S.P. <i>[faint]</i>
11:05	0 37E	23 18	1	7.50	A <sub>0</sub> <sup>2</sup>	23 HJ

*From [faint] [faint] - [faint] from [faint] [faint]*

		MC	SC	SW	MT	ST <sub>m</sub>
Dec. 2	13	-	-X 22.7	-24.3	+22.0	-0.3
	3	+00.7	-X 22.8	-30	+17.8	-0.3 <sub>m</sub>
	4	+00.3	-24.6	+25.4	+23.8 <sub>s</sub>	+0.7 <sub>m</sub>

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Date

Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
2298	ND 204511	21 55	62 34	J 46	K 1000	501	8E	19 21	20 40	
2299	From Test				Black					
2300	ND 201344	21 53	39 01	-	-	-	81	19 20	20 20	
2301	204511	21 53	47 31	-	-	-	81	19 20	20 20	
2302	204511	21 53	47 31	-	-	-	81	19 21	20 20	
2303	From Test				Black					

Ending Time  
E.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp.	REMARKS												
1 <sup>11</sup> W	50 44	1-2	2.50	A <sub>1</sub>	1-2-2	N.S.A. 18 H												
					3/2													
2 <sup>10</sup> W	49 11	1	2.20	A <sub>1</sub>	1-2-2	18 H Cloud 13 <sup>30</sup> - 13 <sup>35</sup>												
3 <sup>42</sup> W	47 54	1	2.55	A <sub>1</sub>	2-2-2	42 H												
4 <sup>04</sup> E	46 59	1	2.75	B <sub>0</sub>	2-2-2	42 H												
4 <sup>47</sup> W	42 45	1	2.90	E <sub>1</sub>	1-2-2	41 H Cloud 5 <sup>10</sup> -												
					3/2	Very faint breaking clouds coming in before midnight												
						<table border="0" style="width: 100%; text-align: center;"> <tr> <td></td> <td>MC</td> <td>SC</td> <td>SW</td> <td colspan="2">MT ST</td> </tr> <tr> <td>Dec. 5 13</td> <td>+01.0</td> <td>-27.2</td> <td>+24.9</td> <td>+28.0</td> <td>+0.7</td> </tr> </table>		MC	SC	SW	MT ST		Dec. 5 13	+01.0	-27.2	+24.9	+28.0	+0.7
	MC	SC	SW	MT ST														
Dec. 5 13	+01.0	-27.2	+24.9	+28.0	+0.7													



Thermometer at 20.5

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.				REMARKS
								Cloudy all day with some thinning around town after dark but clouds were persistent all about 20 <sup>15</sup> . Wind had blown down so dark against stars that with use of prism looking at. No current to dome had to clean window <sup>no glass broken</sup> and prism a bit
1	4 <sup>12</sup> W	263 25	2-1	7.5	B2	2-2-2	2.5 1.5 M	
0	5 <sup>12</sup> W	277 30	2	7.5	B2	2-2-2		2.7 of some very faint nebula, not sure
0	5 <sup>12</sup> W	277 40	2	5.95	A0	2-2-		4.7 1. Bright only right hand side slit in following up
								Plate by a dome





part 175

Ending Time  
E.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
0 36 W	45 55	1	7.56	30 2-2-2
0 37 W	56 05	1	6.89	F <sub>0</sub> 2-2-2
0 57 W	58 01	2	7.52	A <sub>0</sub> 2-2-2
0 06 E	38 32	1	1.83	A <sub>0</sub> 2-2-2

very heavy haze - light up below  
at all night long  
at the full moon - haze  
at all night long

	λ	MC	SC	SW	MT	ST
Dec. 8	13	+02.6	-30.8	+27.4	-15.2	+0.1 <sup>m</sup>
					(Adv. 1 <sup>m</sup> )	
9	15.5	+01.2	-24.5	+37.0	-09.0	+0.3 <sup>m</sup>



Route set at 17:35

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp	REMARKS
19 <sup>41</sup>	2 28 W	58 04	00	752	A <sub>0</sub>	2-2-2	KSA. 18Y being rank!
19 <sup>50</sup>	3 30 W	59 40	00	752	A <sub>0</sub>	2-2-	- 18Y The standing object was at 19 <sup>35</sup> . Off-axis. Clearing later
19 <sup>51</sup>	0 56 E	18 01	0	657	B <sub>0</sub>	2-2-	- 47M Clouds. Sky clear at 21 42 Clearing and standing most of the night, light rain.

69

Date

Monday Dec 11 1900 L-C

Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
7313	HD 21402	05 31.2	72 16	I 12E	E-1030	50 300	-5.1	20 45	21 11	2
7314	" 21766	05 34.5	72 27	"	"	"	-5.1	21 21	22 00	2
7315	" 22460	05 36.2	72 23	"	"	"	-5.1	21 12	22 42	4
7316	" 22554	05 37.2	72 10	"	"	"	-5.1	22 31	23 25	1
7317	" 23450	05 39.2	72 14	"	"	"	-5.1	23 20	00 20	2
7318	" 24222	05 41.7	72 29	"	"	"	-5.1	00 04	01 25	2
7319	" 24477	05 40.3	72 12	"	"	"	-5.1	01 07	02 22	1
7320	" 24477	05 40.3	72 12	"	"	"	-5.1	01 30	02 55	1
7321	" 24385	07 11.7	31 09	"	"	"	-5.1	02 05	02 50	2
7322	" 21225	07 17.5	32 19	"	"	"	-5.3	02 22	03 10	3
7323	" 21171	06 40.7	32 16	"	"	"	-5.1	03 17	04 07	4
7324	" 20580	05 16.3	34 41	"	"	"	-5.4	04 10	04 52	1

Book out at 15.99

Ending Time  
E.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp	REMARKS
					Clouds at sunset. Clearing later started to open up, sky cleared over and started to rain. Clearing again at 20 <sup>00</sup> , wanted light clouds, over.
1 <sup>10</sup> E	42 22	0	6.25	B <sub>2</sub> <sup>3</sup>	2-2-2 NSA 23 M Seeing poor!
0 <sup>21</sup> E	20 34	0	6.86	A <sub>0</sub>	2-2-2 " 47 H
0 <sup>13</sup> W	20 31	0	6.37	B <sub>0</sub>	2-2-2 " 47 M Seeing improving
0 <sup>23</sup> W	27 17	0	6.61	A <sub>0</sub>	2-2-2 " 48 M
0 <sup>49</sup> W	32 21	0	6.17	B <sub>0</sub>	2-2-2 " 48 M Seeing poor again
0 <sup>55</sup> W	28 50	0	7.17	F <sub>0</sub>	2-2-2 " 49 H
0 <sup>24</sup> W	12 30	0	5.71	A <sub>2</sub>	2-2-2 " 74 M → noted 7320
0 <sup>40</sup> W	12 34	○	5.25	F <sub>0</sub>	2-2-2 " 74 H Seeing better 7320*
0 <sup>11</sup> W	31 05	○	5.96	H <sub>1</sub>	2-2-2 " 51 Y
0 <sup>14</sup> W	32 08	○	5.92	F <sub>0</sub>	2-2-2 " 51 H light haze
0 <sup>50</sup> W	27 05	○	6.36	A <sub>2</sub>	2-2-2 " 52 H moderate haze
0 <sup>11</sup> W	32 32	○	5.51	A <sub>2</sub>	2-2-2 " 53 M







73

Date

*Monday, Dec 14, 1914*

Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
7325	HD 101819	21 08.2	27 09	I-12.5	I-1000	5/10		19 46	19 55	5
7326	31330	24 39.0	73 52	"	"	"	17.5	23 41	23 57	4
7327	52991	12 18.2	46 31	"	"	"	17.5	07 44	08 21	1
7328	14 09	23 57	55 30	"	"	"	17.5	00 41	00 44	2
7329	2210	24 39.0	73 52	"	"	"	17.5	01 15	01 51	3
7331	22717	12 46	12 13	"	"	"	17.5	01 46	01 56	1
7332	23003	07 41	51 17	"	"	"	17.5	02 33	03 27	1
7334	15191	24 31.7	4 24	"	"	"	17.5	03 45	03 57	1

Ending Time  
E.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp.
3 54	27 18	1	536	A0	2-2-2
5 59	23 28	1	606	A2	2-2-2
7 01	23 12	1	512	F2	2-2-2
8 59	18 22	1	510	A2	2-2-2
10 13	15 33	1	546	E0	2-2-2
11 27	13 36	1.0	522	A2	2-2-2
	11 50	1.0	552	G3	2-2-
0 00 (P)	17 19	1	512	A2	2-2-2
			572	A2	
			547	G5	
			515	F2	

REMARKS

MSA.35 ✓ Clouds early evening

3 H

4 H

H

✓

11 ✓

11 ✓

" 20 ✓

Dec quick and Dec clamp fitted to front

balance with at 8+7°

	h	MC	SC	MT	ST
Dec. 18	13	+07.8	-48.8	+45.0	+0.5 <sup>m</sup>

from 19 - find clamp & front

Dec. 19 - 20 SK. 20.14

Dec. 20	09	+10.8	-46.2	+03.0	-0.2 <sup>m</sup>
	WBEN			Adv. 1 m	rust

75

Date Saturday, Dec. 12, 1941 <sup>20 41</sup> Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle Est.
7334	HD 201114	20 02.5	+47 37	2-12	B70310	cut 1/2"	-3.8	17 27	17 27	3
7335	202313	21 17.1	-3 52				-3.8	18 21	18 31	4
7336	21 5010	21 57.3	+36 26				-3.9	18 45	18 54	1
7337	17412	19 42.5	+46 48				-3.8	20 09	20 22	2
7338	17287	19 40.1	+44 28				-3.8	21 08	21 18	3
7339	20743	20 25.1	+37 14				-3.9	21 14	21 24	4
	17412							21 30	21 40	4
7340	20743	20 25.1	+37 14				-3.9	21 41	21 51	1
7341	24021	19 03.2	+1 25				-4.0	21 16	21 26	2

Chart 17.0

Dec 22 1915

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
3 <sup>15</sup>	V	+47 43	1	7.50	A0	2-2-2 143A 40 Y
3 <sup>20</sup>	V	+42 42	0	7.56	A0	2-2-2 65 Y
2 <sup>15</sup>	V	+36 42	0-1	7.58	A0	2-2-2 2 H. 50 Y
0 <sup>17</sup>	N	+53 40	0-1	7.71	A0	2-2-2 22
1 <sup>01</sup>	V	+40 40	1	7.72	A0	2-2-2 22
0 <sup>42</sup>	N	+27 41	1	5.07	A0	2-2-2 07 Y. Right following light blue in air city 10. Top of mountain looks up at that in mountain.
1 <sup>25</sup>	N	+32 40	1	7.7	A0	2-2-2 22
0 <sup>38</sup>	N	+12 25	1	7.5	A0	2-2-2 72 H. 20 Y

Dec. 22 18<sup>h</sup> MC - 15

MTW STW  
- 03° - 0.2  
Aut

77

Date *Monday, Dec 22, 1914*

Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
7342	HD 20130	21 02 20	+33 20	I-12	B-117-0	25 010	-1.5	18 45	19 53	8 35
7343	9847	21 20 10	+31 28	"	"	"	-1.5	20 26	21 11	4 31
<p><i>Exp. Dec 25-26 - C-</i>  <i>Spent part of day comparing with</i>  <i>Standard included for calibration</i></p>										
7345F	Star			I-12	E-103-0		-5.0			1 20

cloudy early morning

72

Ending Time  
E.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
-------------------	-------------	--------	-----------	--	---------

4 35 W	+23 18	0	7.52	B0	2-2-2	183 65 M Haze found and. Start of light clouds on north of sky
32 W	+31 39	0-1	7.86	K3	2-2-2	45 Clouds on north

Dec 25 AB. Sid watch +0.2<sup>m</sup>

	t	MC	SC	MT	ST
Dec. 29	13	+17.1	-61.1	-04.8	+0.3 <sup>m</sup>

slide

setting

26.13

0

27.25

4

28.01

10

entire range

Correct from about 26.21

79

Date *Monday, June 1, 1908* Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
7344	HD 30130821	075	+77 43	I-12	E112-3	510	-52	17 27	17 41	2
7345	21131221	112	+25 15	-	-	-	-52	17 44	18 00	3
7346	21131222	300	+85 52	-	-	-	-51	18 34	18 48	7
7347	21131223	160	+80 24	-	-	-	-51	17 42	18 01	1
7348	21131224	299	+81 30	-	-	-	-	17 57	18 11	2
7349	19131212	051	+52 11	-	-	-	-52	17 49	18 04	3
7350	21131216	123	+73 27	-	-	-	-52	18 14	18 27	7
7351	19131215	084	+25 02	-	-	-	-52	17 12	17 27	1
7352	21131218	114	+12 31	-	-	-	-52	18 12	18 27	1
7353	21131218	292	+12 25	-	-	-	-52	18 17	18 32	1
7354	19131218	312	+41 07	-	-	-	-52	18 14	18 29	1
7355	21131218	214	+62 21	-	-	-	-52	18 14	18 29	1
7356	20131218	087	+39 41	-	-	-	-52	18 13	18 28	1
7357	50658	06	491 146 24	-	-	-	-52	01 06	01 16	3
7358	50763	06	490 146 40	-	-	-	-52	01 10	01 24	4
7359	50917	09	486 158 43	-	-	-	-52	01 41	02 01	1

*Jan 21 1916*

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	...	...	REMARKS
2 <sup>45</sup> V	+77 54	2-1	588	84	3-3	KSA 7	H Telescope E of Pier 2
3 <sup>25</sup> V	+79 37	1	742	92	2-3-2	7	H
1 <sup>47</sup> V	+82 37	1	199	50	2-3-2	1	H
2 <sup>11</sup> N	+85 54	1	732	55	2-2-2	1	H
2 <sup>48</sup> W	+88 14	1-2	882	98	2-2-2	11	
1 <sup>47</sup> W	+87 07	1-2	785	80	2-2-2	9	
2 <sup>42</sup> W	+74 13	1-2	111	80	2-2-2	3	H
2 <sup>11</sup> W	+85 38	1	195	90	2-2-2	1	H
2 <sup>17</sup> W	+82 37	1-2	197	83	2-2-2	15	H
2 <sup>43</sup> W	+82 58	2	740	81	2-2-2	10	H
2 <sup>52</sup> W	+81 57	2-3	170	85	2-2-2	12	H
1 <sup>45</sup> W	+85 23	1	733	88	2-2-2	25	He
2 <sup>50</sup> N	+87 38	1	320	82	2-2-2	11	H
2 <sup>40</sup> W	+85 31	1	370	80	3-3	26	M
2 <sup>57</sup> W	+84 57	2	903	80	3-3	26	Y
2 <sup>41</sup> W	+84 38	2-3	877	80	2-2-2	11	H



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Date.....

Julian Day.....

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
7360	11.12 39033	07 43.1	61 58	I-12	L-1030	<sup>50</sup> .010	-5.2	02 05	02 10	2
7361	" 63857	07 44.1	71 37	"	"	"	-5.1	02 27	03 05	3
7362	" 203836	01 12.6	86 37	"	"	"	-5.2	02 28	03 30	4
7363	" 31278	10 23.2	47 11	"	"	"	-5.2	04 17	04 35	1
	<del>61445</del>	<del>09 24.1</del>	<del>45 19</del>				<del>5.2</del>	<del>04 40</del>	<del>05 13</del>	<del>2</del>
7364	" 64334	03 37.6	52 44	"	"	"	-5.1	05 18	05 46	3
7365	" 112021	12 35.7	32 18	"	"	"	-5.2	05 22	06 16	4
7366	" 105504	12 58.2	17 52	"	"	"	-5.1	06 28	06 50	1

Ending Time  
E.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp	REMARKS
1 <sup>18</sup> W	+61 55	2.3	7.53	G5	2-2-2	KSA. 11 H
1 <sup>30</sup> W	+71 52	2.3	7.55	A0	2-2-2	7 H
1 <sup>01</sup> N	+86 47	2	7.44	A3	2-2-2	1 H
<i>Charged telescope back to Wolfen</i>						
1 <sup>17</sup> W	+47 08	3	7.36	A2	2-2-2	30 M
1 <sup>22</sup> W	+42 50	3	7.40	A5	2-2-2	22 <i>The plot accidentally spoiled.</i>
1 <sup>27</sup> W	+32 29	3	7.54	F2	2-2-2	53 H2
1 <sup>25</sup> E	+32 03	3	7.50	S5	2-2-2	57 H
1 <sup>41</sup> W	+17 39	3	7.52	A0	2-2-2	80 M

		MC	SC	MT	ST
Dec. 30	13	+17.8	-62.6	+05.8	+0.5
	31	+20.0	-63.0	+12.5	+0.5
Jan. 2	13	+20.3	-66.6	-01.0	+0.0
	5	+25.5	-68.3	-00.5	-0.0



Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comps	REMARKS	
1:15	21 W	19 26	0	7.5	A0	2-2-	K.S.A. 73 M. Sky blanketing in a sudden snow squall struck at 22:50
2:00	25 W	15 57	0	7.54	F0	2-2-2	K.S.A. 75 Hd
3:04	31 W	14 27	0-1	7.12	A3	2-2-2	" 75 Y
3:30	35 W	12 57	0-1	6.93	A5	2-2-2	" 75 H
4:00	35 W	16 07	0-1	7.25	B3	2-2-2	" 77 M
4:30	48 W	14 24	0-1	6.99	A0	2-2-2	" 77 M
5:00	42 E	17. 35	0-1	6.87	A0	2-2-2	" 79 M
5:30	50 E	17 53	0-1	7.00	A2	2-2-2	" 79 M

Tuesday Jan 6-7.

Gale & snow in first part of night  
high wind all night - below zero.

		MC	SC	MT	ST
Jan 6	13.5 WSON	+23.2	-1 16.9	+04.0	+0.7
7	13	+25.5	-1 13.4	+09.0	+0.0

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Date Wednesday, January 7, 1936, L-C Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
7375	M.D. 16810	04 217	30 29	I-182	E-1935	set C15	-14.4	20 10	21 40	2
7376	" 31344	03 214	43 17	"	"	"	-14.4	21 51	22 19	3
7377	" 33761	05 210	42 12	"	"	"	-14.3	22 24	23 02	4
7378	" 31404	03 <sup>26.4</sup> <del>219</del>	42 02	"	"	"	-14.2	23 07	23 27	1
7379	" 39812	03 212	45 03	"	"	"	-14.2	22 31	23 35	2
7380	" 43127	02 117	28 02	"	"	"	-14.3	00 02	00 42	3
7381	" 21225	07 214	17 25	"	"	"	-14.0	00 42	01 12	4
7382	" 21226	08 170	32 38	"	"	"	-14.0	01 25	02 07	1
7383	" 21225	09 241	45 12	"	"	"	-14.0	02 12	02 44	2
7384	" 62151	02 254	32 51	"	"	"	-14.1	02 33	03 01	3
7385	" 21234	10 206	27 35	"	"	"	-14.0	02 57	03 17	4
7386	" 21170	04 26	21 06	"	"	"	-14.0	03 30	03 57	1
7387	" 32371	10 343	22 02	"	"	"	-14.4	03 47	04 07	3
7388	" 16211	11 210	1 15	"	"	"	-14.3	04 18	04 42	4
	{ Total		Time: 2:30				7.11: 29.3			

Ending Time  
E.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp	REMARKS
					Clouds and moon only evening
1 52 W	32 33	0	7.99	F <sub>2</sub>	2-2-2
0 13 E	43 30	0-1	6.75	A <sub>0</sub>	2-2-2 KSA. 25 H
0 28 W	42 13	0-1	7.64	G <sub>5</sub>	2-2-2 " 25 Y
0 45 W	42 02	0-1	6.21	B <sub>5</sub>	2-2-2 " 25 M
0 53 W	45 13	0-1	7.34	G <sub>5</sub>	2-2-2 " 25 Y
1 0 W	39 02	1	7.42	A <sub>0</sub>	2-2-2 " 30 Ha
0 52 W	37 48	2-3	7.17	A <sub>0</sub>	2-2-2 " 31 Y
1 10 W	32 32	0-1	7.08	A <sub>0</sub>	2-2-2 " 32 M
0 47 E	45 22	2	7.25	A <sub>5</sub>	2-2-2 " 34 M
1 10 W	27 26	1-2	6.79	A <sub>0</sub>	2-2-2 " 53 M
0 52 E	27 41	1-0	6.40	B <sub>0</sub>	2-2-2 " 57 H
0 52 E	32 32	2	5.11	M <sub>0</sub>	3-3 " 58 Ha
0 28 W	27 42	1	6.71	A <sub>0</sub>	2-2-2 " 58 Y
0 22 W	11 22	1	6.51	A <sub>0</sub>	2-2-2 " 59 M
		{ seeing 2			
		{ time 25			
					Temp. spot -6° F.

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Date

Thursday Jan 8-9/48 L-C

Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Shit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
7389	M.D. 9860	01 31.2	46 27	I 163	E-1030	ser .010	-15.2	18 10	19 59	4
7390	" 15705	02 26.9	24 03	"	"	"	-15.2	19 05	21 10	23
7391	" 21229	05 20.4	31 20	"	"	"	-15.2	20 35	21 35	2
7392	" 35802	05 29.2	17 10	"	"	"	-15.3	21 43	22 18	3
7393	" 35956	05 43.2	12 23	"	"	"	-15.3	22 06	22 50	4
7394	" 36106	05 59.2	12 12	"	"	"	-15.5	22 39	23 05	22
7395	" 42131	06 09.2	14 52	"	"	"	-15.2	23 09	23 43	24
7396	" 42757	06 51.2	17 59	"	"	"	-15.3	23 45	01 22	2
7397*	42148	06 15.6	15 47	"	"	"	-15.2	00 27	01 45	4

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp	REMARKS
10:45	0° 50' W	46 40	2-3	7.7	A <sub>0</sub>	2-2-2 - Fogged in spotting room Jan 7.
11:00	0° 43' W	25 15	2-3	8.0	A <sub>0</sub>	2-2-2 Strong wind image unstable
11:15	1° 00' W	31 33	2-3	7.92	A <sub>0</sub>	2-2-2
11:30	0° 50' E	17 10	2-1	7.29	K <sub>0</sub>	2-2-2 KSA. 73 H
11:45	0° 45' W	15 31	2-1	7.31	F <sub>8</sub>	2-2-2 73 Y
12:00	0° 33' W	12 13	2-1	6.35	B <sub>3</sub>	2-2-2 " 73 M
12:15	0° 31' W	14 52	2-1	7.27	B <sub>0</sub>	2-2-2 R. " 74 H&
12:30	0° 51' W	17 55	2-1	7.33	A <sub>0</sub>	2-2-2 " 74 M
12:45	1° 00' W	15 45	1	7.15	F <sub>8</sub>	2-2-2 74 Y image very unstable

Strong wind and turbulence in image. \* Last plate is wrapped in a red plastic box

		MC	SC	MT	ST
Jan. 9	13	+27.6	-1 <sup>m</sup> 15.7	+22.8	+0.4 <sup>m</sup>



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Date Friday January 9-10-1942 H-L Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
7398	HD 35544	5 20.4	+42 17	I-12	E-102	210	-10.5	21 07	21 35	1
7399	35761	5 21.7	+42 12	"	"	"	-10.5	21 42	22 20	2
7400	35278	5 27.4	+47 23	"	"	"	-10.5	22 23	23 54	3
7401	67800	10 23	19 58	"	"	"	-10.2	00 15	00 52	4
7402	68332	08 00.2	19 19	"	"	"	-10.2	00 57	01 47	5
7403	80632	09 55	17 02	"	"	"	-10.4	01 51	02 21	6
7404	92254	11 00.5	14 36	"	"	"	-10.5	02 26	03 24	7
		Jan 10-11	F-B	Open to 20 <sup>00</sup> but found thickening - overcast all						
		Jan 11-12	-C-	Clearing and laying over with a few minutes.						

cloudy all day. Starting to clear about 10<sup>45</sup>, but layer  
 light snow at first. p. 73  
 Cloud snow off telescope. Star windy to W. in north

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS															
					set from 26.25 (was 26.21)															
1 11 W	+43 19	0	6.75	A0 2-2-2	430 23 H slide on at 11:00															
0 14 E	+42 14	0-1	7.54	G 5 2-2-2	25 Y (starts at 1 <sup>m</sup> = 2A)															
0 15 W	+47 26	0-2	7.32	J 5 2-2-2	25 H															
					slide on again and some starting to clear. Clouds at + 20 20															
0 16 E	+14 47	0	6.14	A0 2-2-2	76 M seeing poor high winds															
0 37 W	+14 09	0	6.54	A5 2-2-2	76 H															
0 42 W	+16 30	0	6.93	A5 2-2-2	77 M															
0 19 E	+14 42	0	6.93	A5 2-2-2	79 M															
					Closing because of strong wind, etc. seeing and cold weather. No															
					instead of dec.															
					<table border="0"> <tr> <td></td> <td>M<sup>n</sup></td> <td>S<sup>n</sup></td> <td>M<sup>r</sup></td> <td>ST<sup>m</sup></td> </tr> <tr> <td>Jan. 12</td> <td>+30.0</td> <td>-1 29.3</td> <td>+42.7</td> <td>+0.7</td> </tr> <tr> <td>13</td> <td>+41.8</td> <td>-1 19.8</td> <td>+56.8</td> <td>+0.7</td> </tr> </table>		M <sup>n</sup>	S <sup>n</sup>	M <sup>r</sup>	ST <sup>m</sup>	Jan. 12	+30.0	-1 29.3	+42.7	+0.7	13	+41.8	-1 19.8	+56.8	+0.7
	M <sup>n</sup>	S <sup>n</sup>	M <sup>r</sup>	ST <sup>m</sup>																
Jan. 12	+30.0	-1 29.3	+42.7	+0.7																
13	+41.8	-1 19.8	+56.8	+0.7																

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Date *Tuesday Jan 13 1908* Y-C Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
7405	HD 35544	05 20.4	43 17	I <sup>S</sup>	Ektac	0.10	-6.5	21 20	21 40	4
7406	HD 36406	05 30.4	41 20				-6.4	21 51	22 10	
7407	HD 37136	05 26.4	6 02				-6.3	22 21	22 49	2
7408	HD 40143	05 52.0	45 37				-6.2	22 55	23 19	3
7409	HD 44071	06 14.7	29 25				-6.4	23 25	23 55	4
7410	HD 58244	07 19.7	32 06				-6.1	00 00	00 42	1
7411	U 275	07 31.5	32 14				-6.2	00 48	01 10	2
7412	71151	08 20.7	27 16				-6.2	00 20	00 38	3
<i>Thursday Jan 15 1908 L-C hazy and windy</i>										

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Clearing following in early evening

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		Comb	REMARKS
21-0	29 <sup>m</sup> E	43 19	2	675	A0 <sup>m</sup>	2-2-2	H
22-10	6 <sup>m</sup> E	42 02	2-3-	608	A8	2-2-2	M
23-40	29 <sup>m</sup> W	61 55	1-2	679	A5	2-2-2	H
23-53	39 W	45 36	2	660	A0 <sup>m</sup>	2-2-2	H
23-55	52 <sup>m</sup> W	29 22	2	719	F0	2-2-2	Y
24-1	36 W	32 00	2-1	681	A0	2-2-2	H
24-2	55 W	32 08	1	600	F0	2-2-2	H
24-3	30 W	27 05	1	636	A2 <sup>m</sup>	2-4-	H

			MC	SC	MT	ST
Jan.	15	13 <sup>h</sup>	+33.8	-123.2	+48.8 <sup>s</sup>	+0.9 <sup>m</sup>
	16	13	+34.6	-124.3	-08.7 <sup>s</sup>	-0.2 <sup>m</sup>
					+ Adv. 1 <sup>m</sup>	

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Date Jan 10 - 17 Friday Y. B. L. Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
7413	HT 9861	01 31.2	+45 57	T-12	E-1030	010	-7.7	18 34	20 04	4
7414	21,769	03 25.5	+58 26	-	-	-	-7.9	20 09	21 37	1
7415	34,285	05 11.0	+60 32	-	-	-	-7.9	20 23	21 13	2
7416	35,005	05 22.3	+62 05	-	-	-	-7.7	21 07	22 04	3
7417	37,126	05 31.2	+51 33	-	-	-	-7.8	22 04	22 54	4
7418	53,917e	07 22.6	+62 41	-	-	-	-7.9	22 55	23 06	1
7419	60,272	07 28.7	+60 47	-	-	-	-7.8	23 11	23 59	2
7420	60,226	07 29.2	+60 47	-	-	-	-7.8	23 11	23 17	2
7421	63,817	07 46.1	71 57	"	"	"	-7.8	00 24	01 34	2
7422	75,986	08 45.2	68 20	"	"	"	-7.8	01 10	01 50	1
7423	75,497	08 45.8	59 26	"	"	"	-7.8	01 23	01 37	6
7424	80390	09 14.4	57 08	"	"	"	-7.9	01 42	02 02	3
7425	81402	09 22.2	56 41	"	"	"	-7.8	02 06	02 34	4
7426	92009	10 43.0	57 07	"	"	"	-7.8	02 36	03 12	4
7427	150024	11 23.7	60 15	"	"	"	-7.8	03 39	03 11	1
7428	106053	12 59.1	78 00	-	-	-	-7.9	04 17	04 37	1

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comb	REMARKS	
	+1 <sup>56</sup>	+46 11	0-1	8.0	FS	2-2-2	} Plates not numbered - observed through back!
	+0 <sup>34</sup>	+58 20	1	6.33	A2	2-2-2	
	-0 <sup>30</sup>	+62 35	1-2	6.95	K2	2-2-2	10 H Plate slightly fogged
	0 <sup>00</sup>	+59 50	1-2	7.46	A0	2-2-2	10 H
	+0 <sup>05</sup>	+61 53	1-2	6.78	A5	2-2-2	10 H
	-0 <sup>05</sup>	+60 38	2	5.77	A0	2-2-2	11 H Plate fogged
	-0 <sup>12</sup>	+60 53	1-2	6.86	A0	2-2-2	11 H Plate fogged
	0 <sup>10</sup> W	+61 48	1-2	7.59	FS	2-2-2	11 H
	0 <sup>40</sup> W	71 51	1-2	7.52	A0	2-2-2	" 4 H
	0 <sup>00</sup> E	62 11	1-2	6.00	F0	3-3	" 12 Hd
	0 <sup>15</sup> W	59 15	1-2	6.36	F0	3-3	" 12 Hd
	0 <sup>11</sup> W	58 56	1-2	7.33	MB	3-3	" 12 H
	0 <sup>35</sup> W	56 29	1-2	7.22	F2	2-2-2	" 12 H
	0 <sup>20</sup> E	56 54	2	6.54	G5	3-3	" 13 H
	0 <sup>10</sup> W		1-2	8.02	P	2-2-2	" 13 H Following Compton
	0 <sup>05</sup> E	77 46	1-2	6.64	A0	2-2-2	" 5 H



Experiment 19.1

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS					
							MC	SC	MT	ST	
						Jan. 19	14 <sup>h</sup>	+39.0	-1 <sup>m</sup> 27	+03.2	-0.0 <sup>m</sup>
03 44	1 36W	32 16		6.98 A <sub>2</sub>	2-2-2	KSA 52	IVBEN M	1/4 of time given in tables Reset			
	1 36W	11 50	0-	6.74 F <sub>0</sub>	2-2-2	77	Hd	1/4			
	0 47W	47 10	D	7.36 A <sub>2</sub>	2-2-2	30	M	1/4			
						Thick haze and high clouds					
							MC	SC	MT	ST	
						Jan 20	13	+38.8	-1 28.7	+05.8	+0.0 <sup>m</sup>
						21	13	+39.7	-1 31.8	+11.0	+0.1 <sup>m</sup>
						22	13	+40.5	-1 32.3	+15.5	+0.2 <sup>m</sup>
						23	13	+41.5	-1 33.3	+16.2	+0.2 <sup>m</sup>



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Date *Friday January 23-24 1932 11-1* Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle H.M.
7432	H 7 1361	21 21.2	+45 57	502	P-113-0	2"	+3.0	18 53	19 17	3
7433	H 7 3001	21 19.1	+45 12	"	"	"	+3.0	18 51	19 15	1
7434	H 7 3002	21 19.1	+45 12	"	"	"	+3.0	18 53	19 18	1
7435	H 7 17	21 18.0	+45 45	"	"	"	+3.1	18 12	18 57	2
7436	H 7 17	21 18.0	+45 45	"	"	"	+3.1	18 15	18 54	1
7437	H 7 17	21 18.0	+45 45	"	"	"	+3.1	18 16	18 52	1
7438	H 7 17	21 18.0	+45 45	"	"	"	+3.1	18 17	18 51	1
7439	H 7 17	21 18.0	+45 45	"	"	"	+3.1	18 18	18 50	1
7440	H 7 17	21 18.0	+45 45	"	"	"	+3.1	18 19	18 49	1
7441	H 7 17	21 18.0	+45 45	"	"	"	+3.1	18 20	18 48	1
7442	H 7 17	21 18.0	+45 45	"	"	"	+3.1	18 21	18 47	1
7443	H 7 17	21 18.0	+45 45	"	"	"	+3.1	18 22	18 46	1
7444	H 7 17	21 18.0	+45 45	"	"	"	+3.1	18 23	18 45	1
7445	H 7 17	21 18.0	+45 45	"	"	"	+3.1	18 24	18 44	1
7446	H 7 17	21 18.0	+45 45	"	"	"	+3.1	18 25	18 43	1
7447	H 7 17	21 18.0	+45 45	"	"	"	+3.1	18 26	18 42	1
7448	H 7 17	21 18.0	+45 45	"	"	"	+3.1	18 27	18 41	1
7449	H 7 17	21 18.0	+45 45	"	"	"	+3.1	18 28	18 40	1
7450	H 7 17	21 18.0	+45 45	"	"	"	+3.1	18 29	18 39	1

Ending Time  
E.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	RA	DEC	REMARKS
0 30 W	+46 12	3	7.0	50	2-2-2	
1 00 W	+52 15	3	8.0	50	2-2-2	to S.E. of point A
1 35 W	+48 25	3	8.5	9	2-2-2	to S.E.
1 45 W	+44 48	3	7.7	50	2-2-2	
1 50 W	+44 30	3	7.0	50	2-2-2	freshly on slightly north of 20-35
1 50 W	+44 30	3	7.2	50	2-2-2	falling on slightly north
1 55 W	+42 18	3	8.7	40	2-2-2	
2 00 W	+42 12	3-4	9.0	50	2-2-2	longer
2 00 W	+42 20	3-4	8.3	50	2-2-2	longer
2 05 W	+42 41	3	8.4	50	2-2-2	
2 10 W	+40 42	3	8.28	50	2-2-2	
2 15 W	+41 42	3	8.41	50	2-2-2	
2 20 W	+38 30	3	9.43	50	2-2-2	longer
2 25 W	+38 17	3	8.17	50	2-2-2	
2 30 W	+37 35	3	8.21	50	2-2-2	
2 35 W	+34 35	3	8.0	50	2-2-2	

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Date.....

Julian Day.....

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
7443	11.0 5052	07 257	60 48	I 1E1	E-1032		+20	00 45	01 25	
7444	11.0 5052	07 257	60 48				+20	01 25	01 55	
7450	11.0 5052	07 257	60 48				+20	01 55	02 25	
7451	11.0 5052	07 257	60 48				+20	02 25	02 55	
7452	11.0 5052	07 257	60 48				+20	02 55	03 25	
7453	11.0 5052	07 257	60 48				+20	03 25	03 55	
7454	11.0 5052	07 257	60 48				+20	03 55	04 25	
7455	11.0 5052	07 257	60 48				+20	04 25	04 55	
7456	11.0 5052	07 257	60 48				+20	04 55	05 25	
7457	11.0 5052	07 257	60 48				+20	05 25	05 55	
7458	11.0 5052	07 257	60 48				+20	05 55	06 25	
7459	11.0 5052	07 257	60 48				+20	06 25	06 55	
7460	11.0 5052	07 257	60 48				+20	06 55	07 25	
7461	11.0 5052	07 257	60 48				+20	07 25	07 55	
7462	11.0 5052	07 257	60 48				+20	07 55	08 25	
7463	11.0 5052	07 257	60 48				+20	08 25	08 55	
7464	11.0 5052	07 257	60 48				+20	08 55	09 25	
7465	11.0 5052	07 257	60 48				+20	09 25	09 55	
7466	11.0 5052	07 257	60 48				+20	09 55	10 25	
7467	11.0 5052	07 257	60 48				+20	10 25	10 55	
7468	11.0 5052	07 257	60 48				+20	10 55	11 25	
7469	11.0 5052	07 257	60 48				+20	11 25	11 55	
7470	11.0 5052	07 257	60 48				+20	11 55	12 25	

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Samp.
			2	7.0	A <sub>0</sub>
	12 <sup>h</sup> 14 <sup>m</sup> W	47 33	3	7.3	A <sub>2</sub>
	12 <sup>h</sup> 37 <sup>m</sup> W	44 08	3	7.47	A <sub>0</sub>
	12 <sup>h</sup> 39 <sup>m</sup> W	42 43	3	6.4	F <sub>2</sub>
	12 <sup>h</sup> 44 <sup>m</sup> W	40 14	3	6.3	F <sub>0</sub>
	12 <sup>h</sup> 44 <sup>m</sup> W	40 39	3	6.22	A <sub>0</sub>
	12 <sup>h</sup> 47 <sup>m</sup> W	38 30	5	6.08	F <sub>2</sub>
	12 <sup>h</sup> 48 <sup>m</sup> W	37 52	3	6.00	
	12 <sup>h</sup> 48 <sup>m</sup> W	40 47	3	6.44	A <sub>0</sub>
	12 <sup>h</sup> 48 <sup>m</sup> W	40 18	3	6.78	A <sub>0</sub>

Chamberlain carefully guides recording, looking for splitting of stellar double between exposures

following component

Jan. 26	13	<sup>MC</sup> +44.5	-1	<sup>SC</sup> 37.9		\$	<sup>MT</sup> -29.5	<sup>ST</sup> +0.1
							Rest (stopped)	
Jan. 27	13	+45	-1	39.0			<sup>e</sup> -23	<sup>m</sup> +0.4



Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp	REMARKS
1:00	0 <sup>40</sup> W	59 30	0	8.0	M <sub>0</sub>	2-2-2	
1:05	1 <sup>00</sup> W	61 35	0	8.0	M <sub>0</sub>	2-2-2	Very faint
1:10	0 <sup>20</sup> E	31 50	0	7.30	A <sub>2</sub>	2-2-2	H&L
1:15	0 <sup>25</sup> E	27 35	0	7.47	M <sub>0</sub>	2-2-2	H
1:20	0 <sup>30</sup> W	30 30	0-1	7.40	B <sub>5</sub>	2-2-2	H Very faint
1:25	0 <sup>31</sup> W	31 20	0-1	7.30	B <sub>5</sub>	3-3	M
1:30	0 <sup>30</sup> W	30 53	0-1	7.30	F <sub>0</sub>	2-2-2	Y
1:35	0 <sup>28</sup> W	29 26	0-1	7.45	A	2-2-2	H&L
1:40	0 <sup>26</sup> E	53 13	0-1	7.7	F <sub>0</sub>	2-2-2	Arthur's Ring, skyride!
1:45	0 <sup>25</sup> W	30 24	0	7.50	F <sub>0</sub>	2-2-2	H&L
1:50	0 <sup>18</sup> W	17 50	0	6.7	F <sub>0</sub>	2-2-2	Y
1:55	0 <sup>20</sup> W	32 29	0	7.20	M <sub>0</sub>	2-2-2	M
2:00	1 <sup>00</sup> W	32 56	0	7.54	F <sub>0</sub>	2-2-2	H
2:05	0 W	16 06	0	7.25	B <sub>1</sub>	2-2-2	M
2:10	0 W	30 15	0	5.77	A	2-2-2	M
2:15	comp with stars and logs			Monday Feb 2-3 H.C. To all (2!)			

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Date

Monday, February 9, 1936

Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
7473	HD 34109	05 209	85 35	T 101	E 1930	101 101	-100	20 30	20 34	1
7474	" 36236	05 212	12 29	"	"	"	-100	20 42	20 45	2
7475	" 35104	05 242	13 18	"	"	"	-100	20 59	20 59	3
7476	" 29274	05 304	22 51	"	"	"	-100	21 24	21 40	4
<p>High humidity was during this plate, resulted for air condensation</p>										

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp	REMARKS							
0 <sup>10</sup>	W	85 38	0	655	No	2-2-2	Feb. 2	14	MC	SC	MT	ST	
									+53.0	-1 47.2	-04 <sup>s</sup>	+0. <sup>m</sup> 1	
0 <sup>31</sup>	W	12 30	0	731	Fg	2-2-2		3	13	+52.4	-1 48.1	+00.2	+0.3
0 <sup>53</sup>	N	12 12	0.1	693	Bg	2-2-2		4	13	+53.3	-1 49.5	+04.3	+0.3
1 <sup>04</sup>	N	32 52	0.1	830	Fg	2-2-2		5	13	+54.4	-1 51.0	+08.4	+0.4
0.1	sky remaining pretty clear!							6	13	+55.7	-1 52.3	+12.8	+0.3
								9	15	-05	-1 58.0	-20. <sup>s</sup> 0	+0. <sup>m</sup> 2
									added 1 <sup>m</sup> added wt 0.2	removed wt 0.2	Reset		
								11	12	-02.4	-1 58.3	-07. <sup>s</sup> 4	+0. <sup>m</sup> 5



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Date *Wednesday Feb 11/1932 L-C* Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	
7477	HD 36162	05 247	15 19	J. 10.1	F. 130	50	-7.0	20 40	20 55	1
7478	" 37646	05 350	19 22				-7.0	21 02	21 18	1
7479	" 35544	05 244	43 17				-7.0	21 20	21 45	3
7480	" 40076	06 225	17 24				-7.0	21 30	22 12	1
7481	" 46146	06 266	5 47				-7.1	22 16	22 52	1
7482	" 58244	07 197	32 02				-7.1	22 30	23 07	1
7483	" 57150	07 236	17 24				-7.0	23 00	23 40	1
7484	" 54224	07 197	2 32				-7.0	23 47	24 27	1
7485	71546	07 32	26 48				-6.7	23 02	23 40	1
7486	54605	07 370	30 27				-7.0	03 21	03 57	1
7487	75547	07 152	1 32				-7.4	21 04	21 40	1

Ending Time  
E.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp
0 <sup>30</sup> W	15 20	0	534 A <sub>2</sub>	2-2-2
0 <sup>45</sup> W	29 25	0-1	673 A	2-2-2
0 <sup>30</sup> W	43 20	0-1	673 A <sub>1</sub>	2-2-2
0 <sup>5</sup> W	19 24	0-0	673 A	2-2-2
1 <sup>00</sup> W	43 24	0-1	753 A <sub>2</sub>	2-2-2
0 <sup>25</sup> W	32 21	0-1	681 A	2-2-2
0 <sup>20</sup> W	14 26	0-1	714 A <sub>1</sub>	2-2-2
0 <sup>15</sup> E	11 42	0	409 A <sub>1</sub>	3-3
0 <sup>00</sup> W	32 10	1-3	737 F <sub>2</sub>	2-2-2
0 <sup>42</sup> W	30 14	1	507 A <sub>5</sub>	2-2-2
0 <sup>41</sup> E	17 26	0	397 A <sub>1</sub>	2-2-2

REMARKS

Very hazy and lightly cloudy in  
early morning

27. 10. 1950, 2.30 A.M. ✓

\* This is all of the same cluster of stars

→ The above stars are all in the same cluster  
← marked in W. 1000 A.M. 1950

\* Stars in field above  
Cometary

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Date

January 12/1906 6-5

Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
7488	M.D. 34021	05 092	12 25	J-12E	L-1130	Slit 210	-3E	13 17	13 27	
7489	" 34414	05 254	12 02	"	"	"	-3E	13 28	13 38	1
7490	" 37119	05 341	11 28	"	"	"	-3E	13 23	13 33	2
7491	" 43143	05 324	10 37	"	"	"	-3E	13 25	13 35	3
7492	" 43335	05 326	11 10	"	"	"	-3E	13 27	13 37	4
7493	" 43813	05 132	11 21	"	"	"	-3E	13 22	13 32	5
	Proven Print		Correct	through hole						
7494	" 44234	05 156	11 42	"	"	"	-3E	13 21	13 31	6
7495	" 45151	06 202	11 55	"	"	"	-3E	13 26	13 36	7
7496	" 47122	07 136	12 38	"	"	"	-3E	13 20	13 30	8
7497	" 49764	07 224	12 23	"	"	"	-3E	13 08	13 18	9
7498	" 51131	08 117	12 11	"	"	"	-3E	13 12	13 22	10
7499	" 24778	11 274	12 16	"	"	"	-3E	13 43	13 53	11
7500	" 23126	10 284	12 13	"	"	"	-3E	13 15	13 25	12
7501	" 71771	08 214	12 14	"	"	"	-3E	13 20	13 30	13
7502	" 74057	11 314	12 12	"	"	"	-3E	13 34	13 44	14

Ending Time  
E.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp	REMARKS
0 45 E	12 23	0-1	7.5	A <sub>0</sub>	2-2-2	
0 51 W	42 50	0-1	6.0	B <sub>0</sub>	3-3	
0 57 W	3 21	0-1	5.7	B <sub>0</sub>	3-3	
0 53 W	46 38	0-1	6.60	A <sub>0</sub>	2-2-2	Wage
1 00 W	7 13	0-1	7.40	K <sub>0</sub>	2-2-2	
0 20 W	15 51	0	4.0	B <sub>0</sub>	2-2-2	
					2.6-2	[center to right. flat from 0.05+]
0 38 W	17 43	0	7.4	K <sub>0</sub>	2-2-2	
1 00 W	15 52	0-1	6.0	A <sub>0</sub>	2-2-2	✓
0 45 W	12 33	0	6.7	A <sub>0</sub>	2-2-2	
1 04 W	15 46	0	6.7	B <sub>0</sub>	2-2-2	
0 14 W	17 31	0	6.2	A <sub>0</sub>	2-2-2	
0 55 W	42 45	0-1	7.0	A <sub>0</sub>	2-2-2	
1 00 W	72 08	0	6.4	A <sub>0</sub>	2-2-2	
1 00 W	47 37	0	6.7	B <sub>0</sub>	2-2-2	
2 39 W	32 04	0-1	5.7	B <sub>0</sub>	2-2-2	

in small amount of - prepared as in usually found

2 39 W 32 04 0-1 5.7 B<sub>0</sub> 2-2-2

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Date Friday Feb 13-14 K-L

Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
7503	H.U. 27145	04 12	23 36	I.S.	F2230	010	-6.5	19 56	19 36	3
7504	H.U. 27145	05 05	23 40	"	"	"	-6.5	19 47	20 05	4
7505	"	"	"	"	"	"	"	20 06	20 30	1
7506	H.U. 27145	06 17	23 02	"	"	"	-6.4	20 24	21 04	2
7507	H.U. 47256	04 36	27 53	"	"	"	-6.5	21 08	21 34	3
7508	H.U. 5622	07 01	27 53	"	"	"	-6.6	22 32	22 50	1
7509	H.U. 5711	08 06	24 29	"	"	"	-6.5	22 42	23 17	1
7510	"	08 25	24 28	"	"	"	-6.5	23 07	23 31	2
7511	"	06 02	25 56	"	"	"	-6.5	23 36	00 00	3
7512	"	08 37	26 03	"	"	"	-6.5	00 04	00 22	1
7513	"	08 26	25 11	"	"	"	-6.5	00 05	00 10	1
7514	"	10 17	23 15	"	"	"	-6.5	01 01	01 11	1
7515	"	11 20	23 00	"	"	"	-6.5	01 10	01 15	1

Focus set 26.15 - 24.24

Ending Time E.S.E.	Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp	REMARKS
	5 <sup>m</sup> W	13 42	1	78	85	2-2-2	Some clouds, MC SC Feb. 13 12 -00.6 -2 00.3
	47 E	13 41	1	59	62	3-3	Mostly clouds
	34 E	"	0-1	"	"	6	
	6 <sup>m</sup> W	28 01	0	702	110	2-2-2	opened through clouds
		27 51	0	726	112	2-2-	cloudy - snowing down
	0 <sup>25</sup> W	21 50	0	663	88	2-2-2	opened 22 <sup>23</sup> haze
	0 <sup>10</sup> W	19 18	1	634	95	2-2-2	
	0 <sup>15</sup> W	47 21	0.1	668	110	2-2-2	
	0 <sup>40</sup> W	42 41	0.1	614	110	2-2-2	
	0 <sup>20</sup> W	35 52	0.1	621	110	2-2-2	
	1 <sup>05</sup> W	31 52	0.1	71	110	2-2-2	
	1 <sup>10</sup> W	23 22	0.1	80	110	2-2-2	
	0 <sup>10</sup> W	31 13	1.2	34	110	2-2-2	clouds in E

20/10 cloudy



Sat night

112

clearing after sunset,

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp	REMARKS	
8 11	41 E	28 02	2-1	742	AOn	2-2-2	Seeing good but thick. Faint glow East
8 45	7 <sup>m</sup> E	29 48	1-	686	AOn	2-2-2	
9 10	15 W	32 11	1	689	B9 <sub>n</sub>	2-2-2	8.2 * west + South
9 43	41 W	26 59	1-2	691	F5	3-2	
10 6	50 W	32 21	1	729	A2	2-2-2	Thick at 9 <sup>56</sup>

		MC	SC	MT <sub>2</sub> ST	
Feb. 16	12	+02.8	-02	03.7	+18.8 -0 <sup>m</sup> .0
	17	+02.5	-02	04.6	+22.5 +0.5 <sup>m</sup>





cloudy all day good humidity at 10:30  
at sunset

Ending Time  
E.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp	REMARKS
30 <sup>m</sup> E	17 25'	0+	6.91	A0	2-2-2	
20 <sup>m</sup> E	17 22'	0+	6.12	B8	3-3	
20 <sup>m</sup> W	17 57'	0+	7.33	A0	2-2-2	4045886 - not a 2nd order line to CS (clouds)

			MC	SC	MT ST	
Feb. 18	12	+03.8	-2	06.1	+29.8	+0.4

115

1942?

Date

*Thurs. February 19-20*

1941 L

Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.
7524	HD 42233	06 45	15 56	I-12 $\frac{1}{2}$	E-103-0	360 210	-10.3	17 34	19 54
7525	" 42180	06 42	14 52	"	"	"	-10.3	20 44	22 38
7526	" 43335	06 40.6	17 12	"	"	"	-10.3	20 41	21 59
7527	" 46148	06 56.6	15 47	"	"	"	-10.3	21 11	21 45
7528	" 53130	07 23.6	14 34	"	"	"	-10.5	21 49	22 17
7529	" 53132	07 23.6	12 58	"	"	"	-10.4	22 19	22 41

*Friday Feb. 20-21 1942**Partly cloudy with some fog in afternoon.**Cloudy with light drizzle and fog at night. Hazy again. Fine.*



117

Date

Monday February 23 24 1942 - Julian Day


Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
7530	HD 43546	6 12.2	29 49	I-121	E-1130	SEE 010	-6.0	18 45	19 15	2
7531	" 43099	6 24.1	32 14	"	"	"	-6.1	19 04	19 34	3
7532	" 47466	6 32.6	47 23	"	"	"	-6.0	20 26	20 52	4
7533	" 54444	7 13.7	30 06	"	"	"	-6.0	21 46	22 14	1
7534	" 36386	7 47	31 09	"	"	"	-6.0	21 46	22 14	
7535	" 51121	8 03	29 16	"	"	"	-6.1	22 40	23 04	
7536	"	"	"	"	"	"	"	22 53	23 17	
7537	" 71627	8 03	33 02	"	"	"	-6.1	22 20	22 40	
7538	" 73556	8 03	32 10	"	"	"	-6.1	22 47	23 03	
7539	" 73728	8 12.7	42 37	"	"	"	-6.1	22 08	22 34	
7540	" 73745	7 37.0	31 35	"	"	"	-6.0	21 27	21 57	
7541	" 73741	8 49	29 45	"	"	"	-6.0	20 15	20 44	
7542	" 77473	8 21.6	28 57	"	"	"	-6.0	21 22	21 51	
7543	" 77141	" 21.2	28 12	"	"	"	-6.0	20 18	20 47	
7544	" 77125	12 07.7	16 40	"	"	"	-6.0	23 12	23 41	

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp.	REMARKS
10:15 E	27 43		0	5.85	A <sub>0</sub>	2-2-2	Along NW and seeing from
10:34 E	28 12		0	6.93	B <sub>0</sub>	2-2-2	
10:57 W	27 53		0	7.02	A <sub>0</sub>	2-2-2	
11:15 E	28 41		0	6.81	A <sub>0</sub>	2-2-2	
11:34 W	31 34		0	5.72	B <sub>0</sub>	2-2-2	
11:55 E	31 53		0	6.36	A <sub>2</sub>	2-2-2	N.F.
12:15 E						2-2-2	S.P.
12:34 W	27 54		0.4	6.46	A <sub>0</sub>	2-2-2	
12:54 W	27 39		0	6.44	F <sub>2</sub>	2-2-2	
1:14 W	27 57		0	6.41	A <sub>0</sub>	2-2-2	
1:34 W	27 24		0	6.82	A <sub>1</sub>	2-2-2	
1:54 W	27 31		0	7.12	K <sub>0</sub>	2-2-2	Star too faint
2:14 W	28 42		0	7.78	F <sub>0</sub>	2-2-2	Star too faint
2:35 W	28 20		0	7.74	F <sub>2</sub>	2-2-2	
2:52 W	28 25		0	7.81	F <sub>2</sub>	2-2-2	

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Date Tuesday Feb 24.25 Y-C Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
7545	11042476	06 058	17 24	I-12	E.103	010	-5.1	19 00	19 24	1
7546	43335	10.6	17 12	"	"	"	-5.1	19 30	19 56	2
7547	43813	13.2	17 21	"	"	"	-5.1	20 00	20 12	3
7548	44224	15.6	17 49	"	"	"	-5.3	20 17	20 39	4
7549	46148	26.6	15 47	"	"	"	-5.2	20 56	21 24	1
7550	59150	07 23.6	14 34	"	"	"	-5.4	21 30	21 54	2
7551	59760	26.4	12 53	"	"	"	-5.6	21 59	22 19	3
7552	67959	08 05.3	14 56	"	"	"	-5.5	22 23	22 37	4
7553	71151	08 20.7	27 16	"	"	"	-5.5	22 42	23 01	1
7554	71151	"	"	"	"	"	-5.5	23 01	23 17	2
7555	71221	07 22.7	12 26	"	"	"	-5.4	23 23	23 53	1
7556	71545	14 01.4	28 30	"	"	"	-5.5	23 57	00 33	2
7557	76728	11 31.3	28 21	"	"	"	-5.4	00 41	01 15	3
7558	101247	11 30.1	41 34	"	"	"	-5.3	01 27	01 37	4
7559	111769	11 31.0	28 27	"	"	"	-5.5	02 01	02 31	1
7560	119637	11 31.3	41 21	"	"	"	-5.5	02 35	03 05	2

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp	REMARKS
19 54	45 <sup>m</sup> E	17 24	0+	691	A0	2-2-2	} moon quite close to all these stars
19 56	17 <sup>m</sup> E	17 13	0-1	747	K0	2-2-2	
20 12	4 <sup>m</sup> E	17 21	0-1	612	B8	3-3	
20 59	20 <sup>m</sup> W	17 47	1+	746	K0	2-2-2	
21 20	55 <sup>m</sup> W	15 46	1+	755	F5	2-2-2	←  7.6 6.4
21 22	28 <sup>m</sup> W	14 26	1-2	712	A3w	3-3	fainter star just below in finder
21 43	50 <sup>m</sup> W	12 45	1-2	737	G5	3-3	note: declination are reading 3° to full 5th
21 51	29 <sup>m</sup> W	14 46	1-2	614	A0	3-3	
22 01	37 <sup>m</sup> W	27 02	1-2	626	A <sub>2</sub> w	3-3	SF → A
22 05	05 <sup>m</sup> W	"	2	"	"	3-3	NF
22 05	01 <sup>m</sup> W	43 23	1	763	K <sub>0</sub>	2-2-2	
22 07	02 <sup>m</sup> W	23 15	1-2	785	K <sub>0</sub>	2-2-2	
22 08	10 <sup>m</sup> W	35 00	2-3	711	G5	2-2-2	strong wind from the north
22 10	13 <sup>m</sup> W	44 18	2	763	A <sub>0</sub>	2-2-2	the other two faint
22 11	53 <sup>m</sup> W	30 10	1	711	A <sub>0</sub>	2-2-2	
22 52	38 <sup>m</sup> E	45 48	1	711	K <sub>0</sub>	2-2-2	open clouds are not coming





Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp	REMARKS																																			
1:45 N	31 49	01	663	B <sub>0</sub>	2-2-2	Low, clouds early morning, trouble with quartz filter and delayed start																																			
0:24 E	45 59	01	661	A <sub>0</sub>	2-2-2																																				
0:24 E	43 52	01	222	A <sub>0</sub>	2-2	Low, clouds early morning																																			
Focus 26.15 OK.																																									
<table border="1"> <thead> <tr> <th></th> <th>MC</th> <th>SC</th> <th>MT<sub>2</sub></th> <th>ST</th> </tr> </thead> <tbody> <tr> <td>Feb. 27 12</td> <td>+10.9</td> <td>-2.76</td> <td>+24.9</td> <td>+0.3<sup>m</sup></td> </tr> <tr> <td>Mar. 2 12</td> <td>+13.2</td> <td>-2.20.7</td> <td>-22.0</td> <td>-0.5<sup>m</sup></td> </tr> <tr> <td></td> <td></td> <td>Removed wt 02</td> <td>Adv. 1 min</td> <td></td> </tr> <tr> <td></td> <td>+ 14</td> <td>+ 11</td> <td>- 2 27</td> <td>- 19<sup>s</sup> + 0.5<sup>m</sup></td> </tr> <tr> <td></td> <td>WBEN</td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td>6 12</td> <td>+ 15.6</td> <td>- 2 24.8</td> <td>- 05.4<sup>s</sup> - 0.4<sup>m</sup></td> </tr> </tbody> </table>								MC	SC	MT <sub>2</sub>	ST	Feb. 27 12	+10.9	-2.76	+24.9	+0.3 <sup>m</sup>	Mar. 2 12	+13.2	-2.20.7	-22.0	-0.5 <sup>m</sup>			Removed wt 02	Adv. 1 min			+ 14	+ 11	- 2 27	- 19 <sup>s</sup> + 0.5 <sup>m</sup>		WBEN					6 12	+ 15.6	- 2 24.8	- 05.4 <sup>s</sup> - 0.4 <sup>m</sup>
	MC	SC	MT <sub>2</sub>	ST																																					
Feb. 27 12	+10.9	-2.76	+24.9	+0.3 <sup>m</sup>																																					
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	WBEN																																								
	6 12	+ 15.6	- 2 24.8	- 05.4 <sup>s</sup> - 0.4 <sup>m</sup>																																					

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Date Mar 6-7 Friday 1942

Y-

Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	SLit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Minute End
7564	34109	5 09.9	85 25	I-12	F 103 D	010	+2.5	8 55	10 17	1
7565	35659	6 49.1	46 25	"	"	"	+2.3	19 24	19 36	2
7566	411497	6 12.0	12 37	"	"	"	+2.3	19 42	19 56	3
7567	42256	6 32.1	47 33	"	"	"	+2.2	20 00	20 30	-
7568	5597	7 33.6	62 43	"	"	"	+2.3	20 41	21 01	-

Saturday, March 7-8, 1942 H

Cloudy most of day. Shining out but hazy in early evening. Cloud  
 m: 19<sup>40</sup>

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp	REMARKS																								
29	29 <sup>m</sup> W	85 38	1	655	A0	3-3																								
33	37 E	46 22	1	580	K8	3-3																								
110	15 <sup>m</sup> W	12 37	1	645	F0	3-3																								
1010	33 <sup>m</sup> W	27 51	1-0	726	A <sub>2</sub>	2-2-2																								
1100	43 W	62 36	1-0	677	A0	3-3 <i>at high threshold - not seen</i>																								
						<table border="0"> <tr> <td></td> <td></td> <td>MC</td> <td>SC</td> <td></td> <td></td> </tr> <tr> <td>Mar. 9</td> <td>12</td> <td>+17.9</td> <td>-2</td> <td>29.1</td> <td> <table border="0"> <tr> <td>MT</td> <td>ST</td> </tr> <tr> <td>+07.7</td> <td>-0.1</td> </tr> <tr> <td colspan="2"><i>last (stopped)</i></td> </tr> </table> </td> </tr> <tr> <td></td> <td>10</td> <td>+23.0</td> <td>-2</td> <td>29.6</td> <td>+11.0 -0.0</td> </tr> </table>			MC	SC			Mar. 9	12	+17.9	-2	29.1	<table border="0"> <tr> <td>MT</td> <td>ST</td> </tr> <tr> <td>+07.7</td> <td>-0.1</td> </tr> <tr> <td colspan="2"><i>last (stopped)</i></td> </tr> </table>	MT	ST	+07.7	-0.1	<i>last (stopped)</i>			10	+23.0	-2	29.6	+11.0 -0.0
		MC	SC																											
Mar. 9	12	+17.9	-2	29.1	<table border="0"> <tr> <td>MT</td> <td>ST</td> </tr> <tr> <td>+07.7</td> <td>-0.1</td> </tr> <tr> <td colspan="2"><i>last (stopped)</i></td> </tr> </table>	MT	ST	+07.7	-0.1	<i>last (stopped)</i>																				
MT	ST																													
+07.7	-0.1																													
<i>last (stopped)</i>																														
	10	+23.0	-2	29.6	+11.0 -0.0																									

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Date Tuesday, Nov 10-11, 1942 Y-C Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	
7569	HD 43646	06 122	29 49	T-12	P-33	0.0	+0.7	19 08	19 26	2
7570	HD 43537	06 117	28 02	"	"	"	+0.7	19 32	20 02	3
7571	HD 44071	06 143	29 25	"	"	"	+0.8	20 05	20 23	4
7572	HD 55244	07 197	32 06	"	"	"	+0.9	20 32	20 44	1
7573	HD 58917	07 226	32 43	"	"	"	+0.7	20 51	21 09	2
7574	HD 60203	07 227	30 40	"	"	"	+0.5	21 13	21 29	
7575	HD 60406	07 292	61 46	"	"	"	+0.6	21 37	22 01	
7576	HD 64335	21 026	36 37	"	"	"	+0.6	22 15	22 27	
7577	HD 75333	28 402	29 26	"	"	"	+0.5	22 03	22 55	
7578	HD 85503	09 477	61 36	"	"	"	+0.8	23 04	23 20	
7579	HD 92322	10 332	47 17	"	"	"	+0.7	23 22	23 48	
7580	HD 97309	14 132	42 56	"	"	"	+0.8	23 30	23 42	
7581	HD 98504	11 227	20 15	"	"	"	+0.7	23 37	00 27	

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp.	REMARKS	
21:15	6° W	29 46	2	686	AD <sub>m</sub>	3-3	
21:20	42 W	28 50	2	742	AD <sub>m</sub>	2-2-2	
21:25	59 W	29 24	2	719	ES	3-3	
21:30	17° W	32 30	2	681	AD <sub>m</sub>	3-3	
21:35	35° W	42 38	2	677	AD	3-3	Plot looked close side in.
21:40	55 W	60 40	2	686	AD	3-3	
21:45	1 23 W	61 39	2	709	ES	2-3-2	
21:50	21 W	56 49	2	710	AD	3-3	Sub. pole, second finder seen 1 in vicinity
21:55	1 23 W	59 14	2	636	ES	3-3	
22:00	25 W	61 26	2-3	742	KO	3-3	
22:05	32 W	57 34	2-3	743	KO	3-3	
22:10	41 W	48 42	2	715	K <sub>m</sub>	2-9	
22:15	49 E	53 30	2	740		3-3	Very quiet with no stars visible and some clouds OK - this is the best of the night yet. Don't know if it's a bit

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Date

Thursday March 12-13/45 L-C

Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
7581	HD 44427	06 190	12 37	T-12E	E-130	Sec 010	+0.9	19 27	19 13	2
7582	45929	06 242	17 59	"	"	"	+0.9	19 25	19 53	3
7583	45024	06 223	29 02	"	"	"	+0.9	19 27	20 15	1
7584	44899	06 211	32 14	"	"	"	+0.6	19 20	20 29	1
7585	44691	06 204	33 22	"	"	"	+0.7	20 21	21 27	2
7586	44259	06 401	41 25	"	"	"	+0.4	21 11	21 19	2
7587	44063	06 403	44 49	"	"	"	+0.5	21 21	21 31	1
7588	44012	06 282	42 26	"	"	"	+0.5	21 41	21 55	1
7589	202836	21 155	86 37	"	"	"	+0.6	21 23	21 53	2
7590	100054	11 257	60 15	"	"	"	+0.6	21 21	21 51	3
7591	35327	10 122	59 18	"	"	"	+0.5	22 28	23 26	1
7592	35257	10 526	52 26	"	"	"	+0.6	23 21	00 11	1
7593	37201	06 211	41 32	"	"	"	+0.8	20 15	20 41	2
7594	103500	11 500	27 20	"	"	"	+0.5	22 25	00 17	1
7595	103505	12 227	33 57	"	"	"	+0.7	01 21	01 42	1
7596	112726	11 209	22 22	"	"	"	+0.4	01 45	02 21	1

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp.	REMARKS					
0 <sup>03</sup>	11	12 36	1	655	F <sub>0</sub>	3-3	Mar. 11	12	MC +18.9	SC -2 30.5	MT +18.2 <sup>s</sup>	ST +0.1 <sup>m</sup>
0 <sup>15</sup>	11	17 56	1	733	A <sub>0</sub>	2-2-2	12	12	+19.2	-02 31.4	+23.2 <sup>s</sup>	+0.2 <sup>m</sup>
0 <sup>50</sup>	11	26 29	1	691	F <sub>5</sub>	2-2-2						
1 <sup>15</sup>	11	37 12	1	639	B <sub>9n</sub>	2-2-2						
1 <sup>35</sup>	11	32 20	1	729	A <sub>2</sub>	2-2-2						
1 <sup>45</sup>	11	26 21	1	575	B <sub>6</sub>	3-3						
1 <sup>45</sup>	11	41 48	1	703	M <sub>0</sub>	2-2-2						
2 <sup>03</sup>	11	41 13	1	561	A <sub>0</sub>	2-2-2						
2 <sup>05</sup>	11	36 48	1	742	A <sub>3</sub>	2-2-2						
2 <sup>10</sup>	11	42 00	1-2	828	?	2-2-2						
2 <sup>15</sup>	11	36 45	1-2	828	F <sub>8</sub>	2-2-2						
2 <sup>15</sup>	11	52 12	1-2	834	K <sub>2</sub>	2-2-2						
2 <sup>20</sup>	11	47 23	1-2	749	K <sub>2</sub>	2-2-2						
2 <sup>25</sup>	11	37 14	1-2	781	M <sub>2</sub>	2-2-2						
2 <sup>30</sup>	11	33 03	2	737	K <sub>0</sub>	2-2-2						
2 <sup>35</sup>	11	23 07	2	741	K <sub>0</sub>	2-2-2						

cont'd



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Date ..... Julian Day .....

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.
7597	HD 114 224	13 07	44 48	H&K	E-100	2-C10	-0.5	02 12	02 38
7598	"	13 10	37 15	"	"	"	-0.16	02 41	02 53
7599	"	13 11	39 12	"	"	"	+0.16	02 27	03 25
7600	"	13 12	29 31	"	"	"	0.12	03 28	03 58

Spir Angle  
End

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS		
0	32W	24 35	1-2	736 K <sub>2</sub>	2-2-2		
0	29W	25 22	2	736 K <sub>2</sub>	3-3		
0	29W	25 22	2	736 K <sub>2</sub>	2-2-2		
0	29W	25 22	1-2	736 K <sub>2</sub>	2-2-2		
Water at 04 17 at least -5 mag. south of star							
				MC	SC	MT <sup>s</sup>	ST <sup>m</sup>
Mar 13	12	+20.4	-2	32.3	-28.2	-0.5 <sup>m</sup>	adv 1 <sup>m</sup>
	16	+22.3	-2	34.9	-14.5 <sup>s</sup>	-0.1 <sup>m</sup>	
	17	+22.7	-2	36.7	-08.5	-0.1	

Date *Thursday March 19-20/42* L-C Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle
7601	<i>HD</i> 36162	05 24.7	15 17	T-12 $\frac{1}{2}$	E-103-0	Set .010	12.5	19 50	19 57	2
7602	" 40143	06 52.0	45 37	"	"	"	12.5	19 33	19 47	3
7603	" 37136	05 31.2	61 53	"	"	"	12.5	19 51	20 00	4
7604	" 38158	05 39.4	47 26	"	"	"	12.5	20 15	20 43	1
7605	" 42190	06 04.2	14 50	"	"	"	12.5	20 12	20 16	2
7606	" 42477	06 05.8	13 40	"	"	"	12.5	21 20	21 48	5
7607	" 51418	06 52.2	42 26	"	"	"	12.3	21 34	21 45	4
7608	" 58917	07 22.6	62 43	"	"	"	12.5	21 33	22 15	1
7609	" 60273	07 23.7	60 44	"	"	"	12.5	22 27	22 40	2
7610	" 57153	06 46	23 55	"	"	"	12.3	22 57	23 11	2
	<i>From list</i>				<i>Latitude change line</i>					
7611	" 102 456	11 11.7	30 35	"	"	"	12.3	23 19	23 30	2
7612	" 11 104	09 32.4	32 44	"	"	"	12.5	23 28	23 40	1
7613	" 11 702	11 23.2	37 17	"	"	"	12.3	20 12	20 35	2
7614	" 102 456	11 11.7	30 35	"	"	"	12.5	23 38	23 50	3
7615	<u>109 954</u>	33.7	24 12	"	"	"	12.3	21 28	21 32	4

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp	REMARKS						
		15 18	1	5.84	A <sub>2</sub>	3-3	Y	Mar 19	MC	SC	MT	ST
									+24.7	-238.1	+0.8	+0.1
1	22 W	45 36	1	6.60	A <sub>0</sub>	3-3	Hd					
2	04 W	0 56	3-1	6.79	A <sub>5</sub>	3-3	H					
2	31 W	49 26	1	7.33	B <sub>8</sub>	3-3	Hd					
2	40 W	14 50	1	7.47	B <sub>9</sub>	2-2-2	Hd					
2	45 W	13 37	1	8.28	A <sub>0</sub>	3-3	M					
2	23 W	48 24	1	6.61	A <sub>0</sub>	3-3	M					
2	19 W	32 36	1	6.77	A <sub>0</sub>	3-3	H					
2	33 W	60 33	1	6.88	A <sub>1</sub>	3-3	Hd					
2	41 W	40 40	1	7.17	A <sub>2</sub>	2-2-2	Y					
						3 $\frac{1}{2}$ -2						
2	04 W	04 22	1	5.82	A <sub>1</sub>	2-2-2	Y					
2	04 W	12 33	1	7.51	F <sub>2</sub>	2-2-2	Hd					
2	04 W	27 33	1	7.21	A <sub>2</sub>	2-2-2	Hd					
2	04 W	24 28	1	7.82	A <sub>2</sub>	2-2-2	M					
2	04 W	27 27	1	9.9	K <sub>2</sub>	2-2-2						

cont'd

Date

Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.
- 7616	HD 114 287	13 44	18 25	L-125	E-100	400	+62.5	01 42	02 00
- 7617	119 285	13 30.5	18 03				+62.5	02 15	02 57
- 7618	122 281	14 39.9	02 47				+62.5	03 00	03 50
- 7619	121 283	15 18.7	25 20				+61.5	01 34	01 54

Friday, March 20-21. H-L

Thick haze & light clouds from sunset on, gradually clearing.

at 6<sup>00</sup> pm: D.D.T. in remarkable display of colors:

22° purple, 46° orange, & circumscintillated arc.

Ending Time  
E.S.T.Hour Angle  
End

Declination

Seeing

Ptg. Mag.

REMARKS

0	23.4	17 02	0-1	730	K <sub>2</sub>	222
1	24.2	18 28	0-1	730	K <sub>2</sub>	222
2	24.8	23 55	1-0	737	M <sub>2</sub>	222
3	25.4	29 18	1-0	744	K <sub>2</sub>	222

	MC	SC	(SW)	MT <sub>2</sub>	ST <sub>2</sub>
Mar. 20	+25.2	-2	38.8	+08.4	+0.3 <sup>m</sup>
23	+26.9	-2	41.8	+18.6	+0.3 <sup>m</sup>

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Date 20 July 1942 H-C Julian Day 212.5

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
7620	HD 63887	17 46.1	+71 57	E-12	Eastman	283	-21	21 35	21 49	1
7621	213236	17 17.3	+74 37					21 44	21 58	✓
- 7622	82670	19 33.2	+23 33				-20.1	22 04	22 28	3
- 7623	82248	19 12.0	+25 19				-20.3	22 31	22 51	4
- 7624	75721	18 30.0	0 0				-20.5	22 56	23 00	1
- 7625	77362	18 41.0	0 0				-20.3	23 17	23 27	2
- 7626	128708	11 37.0	24 00				-20.3	23 48	23 58	1
7627	110400	12 08.0	28 17				-20.3	23 19	23 29	1
- 7628	0 272	12 30.0	31 30				-20.3	23 17	23 27	1
- 7629	112261	13 18.0	30 13				-20.3	23 45	23 55	1
- 7630	107065	13 08.0	25 37				-20.3	22 37	22 47	1
- 7631	111174	14 01.0	3 13				-20.3	22 23	22 33	1
- 7632	135330	15 22.0	00 30				-20.3	22 37	22 47	1
- 7633	150543	15 10.0	23 24				-20.3	23 12	23 22	1

Cloudy all day; clearing after midnight - strong N wind.

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Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Altitude	Azimuth	Remarks
1	15W	+73 50	1	2.82	90	1-2-2	H very cloudy & visibility very poor
2	18W	+80 79	1	2.80	85	2-2-2	H visibility very poor
3	24W	+85 30	1.2	2.81	75	2-2-2	
4	28W	+25 32	2	2.82	65	2-2-2	
5	32W	+5 47	1	2.80	55	2-2-2	
6	38W	00 20	1.4	2.80	45	2-2-2	
7	42W	35 38	1	2.80	35	2-2	clouds - visibility very poor
8	48W	26 43	1.1	2.82	25	2-2-2	clouds - visibility very poor
9	52W	15 28	1.1	2.81	15	2-2-2	
10	57W	01 20	2	2.81	5	2-2-2	
11	62W	18 49	2	2.80	0	2-2-2	
12	68W	30 47	2	2.82	15	2-2-2	
13	72W	42 20	2	2.82	30	2-2-2	
14	77W	23 10	2	2.84	45	2-2-2	



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Date Friday March 10 1950

Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Error Angle End
7634	HE 32162	05 247	157 17	"	"	"	+1.8	7 15	7 27	
7635	"	"	"	"	"	"		7 39	7 48	
7636	HD 58917	07 216	61 43	"	"	"	+1.7	7 51	8 03	
7637	HD 63987	07 241	71 57	"	"	"	+1.7	8 18	8 31	
7638	HD 77187	08 216	53 16	"	"	"	+1.7	8 54	9 14	
7639	HD 88825	09 117	64 23	"	"	"	+1.5	9 20	9 30	
7640	HE 78431	09 202	75 20	"	"	"	+1.5	9 51	10 01	
7641	HD 74517	09 291	74 11	"	"	"	+1.5	10 22	10 32	
7642	HD 83122	09 312	87 43	"	"	"	+1.4	10 51	11 01	
7643	HD 82417	10 483	80 21	"	"	"	+1.5	11 25	11 35	
7644	75920	11 208	27 28	"	"	"	+1.4	12 07	12 17	
7645	HE 771	11 217	50 28	"	"	"	+1.4	12 12	12 22	
7646	HE 772	11 310	51 12	"	"	"	+1.3	12 37	12 47	
7647	HE 773	12 336	43 18	"	"	"	+1.3	13 20	13 30	
7648	HE 774	12 350	23 48	"	"	"	+1.3	13 40	13 50	
7649	HE 775	12 351	27 24	"	"	"	+1.3	13 45	13 55	

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp	REMARKS
7:47	1 <sup>h</sup> 50 <sup>m</sup> W	+15° 16'	1+	584	A2m	3-3	
7:48	2 06 W		1-2	"	"	3-3	
7:49		62 35	1	677	A0	3-3	
7:50	47 <sup>m</sup> W	71 49	2	732	A0	2-2-2	4063108 made under 295 declination from 7:33-7:35
7:51	30 <sup>m</sup> W	53 05	2	734	K0	3-3	
7:52	9 <sup>m</sup> W	64 11	2	735	K2	3-3	exam for slit
7:53	4 <sup>m</sup> W	71 22	2-3	736	K0	3-3	
7:54	1:00 W	74 34	2-3	736	GF	3-3	
7:55	1:01 W	87 30	2-3	736	GF	3-3	
7:56	1:02 W	60 18	2-3		GF	2-2-2	
7:57	0:59 W	42 25	2	737	K0	3-3	
7:58	0:57 W	15 21	2	737	K0	3-3	Small red diameter? looking on plate
7:59	0:55 W	186 08	2	738	K0	3-3	
8:00	0:53 W	27 00	2	738	K0	3-3	
8:01	0:51 W	23 11	2	738	K0	3-3	
8:02	0:49 W	37 06	2	738	K0	3-3	

cont'd



Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
	26W	22 45	2	7.0	15	3.3
	27W	21 45	2	7.0	15	3.3
	28W	20 45	2	7.0	15	3.3
4	29W	19 45	2	7.0	15	3.3
5	30W	18 45	2	7.0	15	3.3
6	31W	17 45	2	7.0	15	3.3
7	32W	16 45	1	7.0	15	3.3

*See notes on page 141*

		MC	SC	MT	ST
Mar. 25	12	+29.8	-2 44.1	-28.8	-0.2
				<i>Adv 1<sup>m</sup></i>	
				<i>Incor. approx. - 26.5 A.</i>	

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Date *Wednesday, March 25, 1908* L.C. Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
<del>7657</del>	<del>HD. 63887</del>	<del>07 46.1</del>	<del>21 57</del>	<del>I-127</del>	<del>E-1430</del>	<del>Slit .010</del>	<del>+4.5</del>	<del>20 65</del>	<del>21 45</del>	<del>3</del>
7658	- 60093	07 28.7	60 44	-	-	"	+4.5	20 55	21 15	3
7659	- 37959	08 05.3	14 56	"	-	"	+4.4	21 25	21 33	4
7660	- 39302	11 10.5	27 19	"	"	"	+4.3	21 41	22 13	1
- 7661	- 160645	11 20.0	20 38	"	"	"	+4.3	21 19	22 45	2
- 7662	- 101286	11 39.1	25 49	"	-	"	+4.3	21 47	22 11	1
- 7663	- 103216	11 51.7	22 06	"	-	"	+4.3	22 00	22 11	1
- 7664	- 103216	11 51.7	22 06	"	-	"	+4.3	22 00	22 11	1
- 7665	104204	11 51.7	16 20	"	-	"	+4.3	22 00	22 11	1
- 7666	103216	11 51.7	22 06	"	-	"	+4.3	22 00	22 11	1
- 7667	103216	11 51.7	22 06	"	-	"	+4.3	22 00	22 11	1
- 7668	103216	11 51.7	22 06	"	-	"	+4.3	22 00	22 11	1
- 7669	103216	11 51.7	22 06	"	-	"	+4.3	22 00	22 11	1
- 7670	112291	13 50.7	55 13	"	-	"	+4.3	22 00	22 11	1
- 7671	122781	13 50.7	3 11	"	-	"	+4.4	22 34	22 49	1
- 7672	134811	13 41.0	22 22	"	-	"	+4.5	22 37	22 49	1

Ending Time  
E.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp.	REMARKS
0 51 W	71 49	0-1	752	A0	2-2-2	Supp. bet. (spaled under car)
1 35 W	60 40	1	686	A0	3-3	" "
1 19 W	14 47	1-0	6.14	A0	3-3	" "
1 5 E	59 05	1-0	7.21	A2	2-2-2	" "
0 52 E	13 44	1-0	7.44	G5	3-3	Schlesinger Bright star
0 16 W	25 32	1-0	7.27	K5	3-3	" "
0 53 E	61 74	1-0	7.26	G0	3-3	" "
0 49 W	31 45	1	7.20	G5	3-3	" "
0 11 W	35 55	0	7.11	F0	3-3	shd. not be used in this plate
0 14 W	42 51	0-1	7.01	F0	3-3	Schlesinger
0 10 W	76 14	1	7.17	G0	3-3	" "
12 37 W	27 44	0-1	7.51	F0	3-3	✓
0 37 W	35 41	1-2	7.34	F0	3-3	Wet?
0 57 W	25 10	2	7.27	F0	3-3	" "
0 47 W	20 58	2	7.60	H0	3-3	✓
0 21 W	23 15	2	7.47	H0	3-3	✓

plates  
on average  
Schlesinger

contd.



Ending Time  
E.S.T.

Hour Angle End    Declination    Seeing    Ptg. Mag.    Comp.    NAME (date)    REMARKS

11:06W	45 28	2	7.30	K2	3-3		<i>Bill</i> (Thought glass)
11:13W	38 35	2-1	7.57	K2	3-3	✓	
11:27W	13 50	1-0	7.22	K2	3-3	✓	



Date

Thursday, April 27, 1934 L.C.

Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
7576	HD 53985	07 44.8	27 36	T-101	E-10310	1/2 2/10	+ 7.2	19 22	19 25	1
7577	"	07 39.4	28 29	"	"	"	+ 7.2	20 22	20 26	2
7578	"	07 33.1	23 53	"	"	"	+ 7.2	20 21	20 25	3
7579	"	07 30.2	13 36	"	"	"	+ 7.1	20 20	21 22	4
7580	"	08 28.2	38 40	"	"	"	+ 7.1	21 21	21 23	1
7581	"	08 38.0	19 20	"	"	"	+ 7.2	22 24	22 27	2
7582	"	10 51.2	46 02	"	"	"	+ 7.1	22 29	22 39	3
7583	"	11 21.0	09 24	"	"	"	+ 7.2	23 28	23 34	4
7584	"	07 33.1	23 53	"	"	"	+ 7.2	23 27	23 30	1
7585	"	07 30.2	13 36	"	"	"	+ 7.1	20 20	20 30	2
7586	"	08 28.2	38 40	"	"	"	+ 7.1	21 21	21 23	3
7587	"	10 51.2	46 02	"	"	"	+ 7.2	22 29	22 31	4
7588	"	11 21.0	09 24	"	"	"	+ 7.1	23 28	23 30	1
7589	"	07 30.2	13 36	"	"	"	+ 7.0	20 20	20 27	2
7590	"	08 28.2	38 40	"	"	"	+ 7.0	21 21	21 29	3
7591	"	10 51.2	46 02	"	"	"	+ 7.0	22 29	22 38	4

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Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp.	REMARKS	
	0 <sup>40</sup> W	59 30	0	7.32	K0	3-3	Schwinger's Bright Star
	0 <sup>45</sup> W	52 32	0	7.34	K0	3-3	
	0 <sup>50</sup> W	23 24	0	7.42	K0	3-3	
	0 <sup>55</sup> W	12 27	0	7.46	K0	3-3	
	1 <sup>00</sup> W	27 57	0	7.70	K5	3-3	
	0 <sup>35</sup> W	19 37	0-1	7.74	K0	3-3	
	0 <sup>40</sup> W	21 11	0-1	7.40	K0	3-3	
	0 <sup>31</sup> E	09 12	0-1	7.55	K0	3-3	
	0 <sup>25</sup> W	21 17	1	7.13	K0	3-3	
	0 <sup>20</sup> W	27 05	1	7.47	K0	3-3	
	0 <sup>15</sup> W	22 25	1-2	7.70	K0	3-3	
	1 <sup>00</sup> W	17 11	1	7.38	K0	3-3	
	0 <sup>55</sup> W	17 22	1	7.17	K0	3-3	
	1 <sup>05</sup> W	20 14	0-1	7.4	K0	3-3	
	0 <sup>31</sup> W	18 21	0-1	7.27	K0	3-3	
	0 <sup>21</sup> W	10 03	1	7.31	K0	3-3	

cont'd





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Date Friday March 27-28 1942 4-L Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
7673	HD 50692	16 49.2	+27 31	"	K-43 B	"	+8.3	19 34.5	19 42.2	1
	47261	16 51.2	+24 08	"	"	"	"	19 47	20 01	
	58281	16 50.8	+49 52	"	"	"	"	20 01	21 10.5	
	51900	16 52.1	+28 42	"	"	"	"	20 15	21 27	
	47414	16 25.9	+40 28	"	"	"	"	20 32	21 35	
	57022	17 16.1	+21 29	"	"	"	"	20 57	21 57.5	
	11154	17 39.1	+22 31	"	"	"	+8.4	20 51	21 22	
7674	HD 50344	17 24.2	+33 03	"	"	"	+8.4	21 06	21 32	2
7675	54272	09 28.7	+19 30	"	"	"	"	21 37	22 01	3
7676	52719	09 48.5	+16 26	"	"	"	+8.1	22 03	22 27	4
7677	31125	10 18.1	+14 54	"	"	"	+8.2	22 38	22 54	1
7698	14217	11 31.2	+04 21	"	"	"	+8.2	22 57	23 07	2
7699	78140	11 18.2	+01 41	"	"	"	+8.3	23 17	23 35	
7700	101112	11 32.0	+03 26	"	"	"	+8.3	00 03	00 31	1
7741	110491	12 06.6	+00 10	"	"	"	+8.2	00 42	01 04	
7701	117464	12 22.2	+01 43	"	"	"	+8.2	01 13	01 37	3

Ending Time  
E.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
55 W	+27 28	1.2	6.33	G0	6" <i>imp. the 4 in. of ...</i> 3
55 W	+23 17		6.39	G5	4
55 W	+19 21		6.28	K0	5
55 W	+15 26		7.22	M2	6
55 W	+11 26		7.35	R5	7
55 W	+7 21		7.33	R2	8
55 W	+3 27	1.2	7.35	M0	6" <i>imp. the 4 in. of ...</i> 9
57 W	+37 09	1	7.72	R5	2-2-4 B.P.C.
52 W	+11 26	3-1	7.44	R2	2-2-2
52 W	+06 15	1	7.33	M2	2-2-2
52 W	+02 56		7.33	R2	2-2-2
0 35 W	+41 25	0	7.77	M5	2-2-2
0 36 W	+00 25	0	7.66	M0	2-2-2
1 0 W	+09 12	0	7.43	M0	2-2-2
0 47 W	+08 39	0	7.42	K0	2-2
0 48 W	+07 29	0	7.47	K0	2-2

contd.



Ending Time  
E.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp	REMARKS
-------------------	-------------	--------	-----------	--	------	---------

0 <sup>h</sup> 11 <sup>m</sup> W	106 17	0	741	K <sub>0</sub>	3-3	
----------------------------------	--------	---	-----	----------------	-----	--

0 <sup>h</sup> 37 <sup>m</sup> W	107 48	0	735	K <sub>0</sub>	3-3	Strong wind and rain
----------------------------------	--------	---	-----	----------------	-----	----------------------

1 <sup>h</sup> 06 <sup>m</sup> W	108 56	0	730	K <sub>0</sub>	3-3	
----------------------------------	--------	---	-----	----------------	-----	--

1 <sup>h</sup> 35 <sup>m</sup> W	109 19	0	727	K <sub>0</sub>	3-3	
----------------------------------	--------	---	-----	----------------	-----	--

2 <sup>h</sup> 00 <sup>m</sup> W	109 54	0	731	K <sub>0</sub>	3-3	
----------------------------------	--------	---	-----	----------------	-----	--

		MC	SC	MT	ST
Mar. 30	12	+33.5	-2 48.4	-11.5	-0.1
				Reset	
				½ turn to R.	
				s	m
	31	+34.3	-2 49.5	-21.7	-0.1
				s	m
Apr. 1	12	+35.4	-2 50.4	-32.0	-0.3
				¼ turn to R	



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Date

Wednesday April 12/1900 1-5

Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle Est.
7708	HD. 50412	10 215	19 52	T. 10 1/2	E-1130	S&L C12	+6.7	21 35	21 53	7
7709	54780	10 329	22 34				+6.9	21 08	22 16	2
	Yours Feet									
7710	100052	11 257	49 20				+6.5	21 20	21 46	3
7711	101604	11 354	53 40				+6.5	21 52	22 14	4
7712	102226	11 512	42 06				+6.5	23 11	23 11	
7713	103453	11 322	52 32				+6.5	23 47	23 47	
7714	112361	12 438	57 17				+6.5	02 10	02 40	3
7715	112414	12 301	24 31				+6.5	20 20	21 11	4
7716	113735	13 417	13 15				+6.5	21 44	21 44	

old metal

old metal

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp	REMARKS
10 <sup>00</sup>	0 10 E	19 38	1	722	K0	3-3	B.S.C. Clouds early evening
10 <sup>10</sup>	0 10 E	22 33	1	731	K2	3-3	
	0 11 E					3-3	
10 <sup>20</sup>	0 10 E	49 24	1-2	720	F5	3-3	"
10 <sup>30</sup>	0 10 E	51 30	1-2	735	K5	3-3	"
10 <sup>40</sup>	0 10 W	1 57	1	744	G5	3-3	Large planet seen 13.3m altitude
10 <sup>50</sup>	0 11 W	1 18	1	741	G5	3-3	Large planet
11 <sup>00</sup>	0 10 W	51 33	1-2	722	K2	3-3	"
11 <sup>10</sup>	0 10 W	52 25	1	734	G5	3-3	"
11 <sup>20</sup>	0 10 W	53 22	1-2	736	G5	3-3	Large planet seen 13.3m altitude



Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp	REMARKS
2	0 22 N	09 02	1	821	K <sub>0</sub>	3-3	B.S.C. Cloud not seen.
	0 24 N	20 30				3-3	
4	0 40 W	02 56	1	748	K <sub>0</sub>	3-3	"
0	0 42 W	09 37	1	732	K <sub>0</sub>	3-3	"
2	0 42 W	21 30	1	600	A <sub>2</sub>	3-3	" Lost target
4	0 30 N	50 19	1.0	789	K <sub>0</sub>	3-3	"
0	0 33 W	32 30	1	716	K <sub>0</sub>	3-3	"
4	0 30 W	22 40	1	731	K <sub>2</sub>	3-3	" Lost target



light better by at first, then ...  
 p. 158

Ending Time  
 E.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS																								
12	-23 18	1.2	7.5	8.5	2-2-2																								
40 W	-12 59	1.2	7.5	8.5	2-2-2																								
<del>17</del>	<del>-23 18</del>	<del>1.2</del>	<del>7.5</del>	<del>8.5</del>	<del>2-2-2</del>																								
<p>April 5<sup>th</sup> change to 25" also made comp          closer to star spectrum          1 1/2 camera was focus 21.00 tilt 20.32          Trial for 25" focus 23.40          tilt 23.15</p> <p>Exp. 4<sup>s</sup> &amp; 3 with 1 filter in          2 out</p> <table border="1"> <thead> <tr> <th></th> <th>MC</th> <th>SC</th> <th>SW</th> <th>MT</th> <th>ST</th> </tr> </thead> <tbody> <tr> <td>12</td> <td>+40.6</td> <td>-2 54.2</td> <td>-35.7</td> <td>+18.6</td> <td>-0.4</td> </tr> <tr> <td>9</td> <td>+42.2</td> <td>-2 59.5</td> <td>+09.5</td> <td>+10.2</td> <td>+0.1</td> </tr> <tr> <td>10</td> <td>+42.9</td> <td>-3 00.5</td> <td></td> <td>+00.2</td> <td>-0.3</td> </tr> </tbody> </table>							MC	SC	SW	MT	ST	12	+40.6	-2 54.2	-35.7	+18.6	-0.4	9	+42.2	-2 59.5	+09.5	+10.2	+0.1	10	+42.9	-3 00.5		+00.2	-0.3
	MC	SC	SW	MT	ST																								
12	+40.6	-2 54.2	-35.7	+18.6	-0.4																								
9	+42.2	-2 59.5	+09.5	+10.2	+0.1																								
10	+42.9	-3 00.5		+00.2	-0.3																								

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Date Saturday, October 12 Y-L

Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
7730	HD 147124	10 21.6	19 52	"	F.02-0	010	+2.0	9 50	10 26	1
7731	HD 148825	11 39.9	20 57	"	"	"	+2.1	10 30	11 04	3
7732	HD 149451	11 23.2	26 17	"	"	"	+2.1	11 12	11 36	
7733	HD 149944	12 34.0	21 11	"	"	"	+2.1	11 39	12 09	
7734	HD 150714	13 07.3	24 48	"	"	"	+2.1	00 14	00 58	
7735	HD 151781	13 28.5	21 37	"	"	"	+2.1	01 35	01 58	
7736	" 132899	14 56.4	22 27	"	"	"	+2.1	01 35	02 23	
7737	" 133435	" 59.6	34 56	"	"	"	+2.1	02 18	02 53	
7738	" 138383	15 26.7	37 09	"	"	"	+2.1	02 41	03 13	
7739	" 141457	15 44.1	22 02	"	"	"	+2.1	03 18	03 50	
7740	" 164126	16 50.6	32 02	"	"	"	+2.1	04 01	04 57	







Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp	REMARKS																		
8:15	32 W	17 22	1-2	7.22 KO	$3\frac{1}{2} \ 3\frac{1}{2} \ 3\frac{1}{2}$	image about $\frac{1}{2}$ diam. of lens of obj in center of field																		
8:15	1 <sup>h</sup> W	7 30	1-2	7.07 KO	$3\frac{1}{2} \ 3\frac{1}{2} \ 3\frac{1}{2}$																			
8:45	out	Focus at	33.45																					
						<p>Took focus test 10<sup>30</sup> A M</p> <p>Focus 23.45    6<sup>s</sup>    4<sup>s</sup>    2 droplets out</p> <p>Focus good.</p> <p>also trial exp for comp</p> <p>2 fillers out - <math>1\frac{1}{2} \ 1\frac{1}{2} \ 1\frac{1}{2}</math> about right</p>																		
						<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%;"></td> <td style="width: 15%; text-align: center;">MC</td> <td style="width: 15%; text-align: center;">SC</td> <td style="width: 15%; text-align: center;">SW</td> <td style="width: 15%; text-align: center;">MT</td> <td style="width: 15%; text-align: center;">ST</td> </tr> <tr> <td style="text-align: left;">Apr. 13</td> <td style="text-align: center;">+43.8</td> <td style="text-align: center;">-3 15.6</td> <td style="text-align: center;">-03.0</td> <td style="text-align: center;">-27.0</td> <td style="text-align: center;">-0.5<sup>m</sup></td> </tr> <tr> <td></td> <td></td> <td></td> <td style="text-align: center;">Reset.</td> <td></td> <td></td> </tr> </table>		MC	SC	SW	MT	ST	Apr. 13	+43.8	-3 15.6	-03.0	-27.0	-0.5 <sup>m</sup>				Reset.		
	MC	SC	SW	MT	ST																			
Apr. 13	+43.8	-3 15.6	-03.0	-27.0	-0.5 <sup>m</sup>																			
			Reset.																					



Temp at 26.3 - Temperature  
 Too little out of comparison

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
20 5	1 28 W	+35 35	2	7.27 K0	1 $\frac{1}{2}$ 1 $\frac{1}{2}$ 1 $\frac{1}{2}$ BSC *	Single diameter = $\frac{3}{4}$ + long of orbit (1.1)
20 49	1 35 W	+35 11	2-3	7.21 K0	1 $\frac{1}{2}$ 1 $\frac{1}{2}$ 1 $\frac{1}{2}$	... .. but ... ..
2 2	5 50 W	+51 48	2-3	6.93 G0	1 $\frac{1}{2}$ 1 $\frac{1}{2}$ 1 $\frac{1}{2}$	Light ... .. faint ... ..
2 15	1 16 W	+72 26	2-7	6.24 F5	2 $\frac{1}{2}$ - 2 $\frac{1}{2}$	Large blowing up. Head shifted for N.E.S.
				6.71 F5		Dark star. ... ..
2 22	1 49 W	+79 24	1-2	7.19 G5	1 $\frac{1}{2}$ 1 $\frac{1}{2}$ 1 $\frac{1}{2}$	Light clouds. Shiner.

	MC	SC	S.W	MT	ST
Apr. 14	12	+45.8	-305.7	+33.8	-0.6 -0.3
					-33.2
15	12	+46.2	-306.9	+58.1	-42.8 -0.4

\* Star fine definitely reddish ... ..  
 NE at 19 $\frac{30}{60}$  ... ..

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Date Thursday April 16 17/48 L-C Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
7744	HD. 78196	09 016	01 52	I-25	E-1030	Spr .010	+11.3	20 00	21 00	2
7745	78747	10 512	26 02	"	"	"	+11.3	21 00	22 00	3
7746	101730	11 231	25 47	"	"	"	+11.3	22 00	23 00	4
7747	106385	12 202	23 10	"	"	"	+11.3	23 00	00 00	5
<del>7748</del>	<del>111703</del>	<del>13 173</del>	<del>21 00</del>	<del>"</del>	<del>"</del>	<del>"</del>	<del>+11.3</del>	<del>01 00</del>	<del>02 00</del>	<del>6</del>

Ending Time  
E.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp	REMARKS
1 36 W 01 40		0	7.76 Mo	12-12-12	Large large faint
1 4 W 15 43		0	7.40 Ho	12-12-12	Large white
1 57 W 21 33		0	7.37 K5	12-12-12	Large increasing towards left half page
1 5 W 07 24		0	7.34 K5	12-12-12	Large faint
0 50 E 17 20		0	6.77 E	12-12-12	Large faint

Apr. 17

MT ST  
- 56<sup>s</sup> - 0.9<sup>m</sup>



cloudy & calm  
 4-20-13

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red notebook

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
		42 02	0	13 50	13-3
					cloudy on my pencil after that, see you see 3.5 and 4.0 at the time the shut off. cloud of 2.2

April 20 13<sup>h</sup> WBEN MC SC SW MT ST  
+53.8 -03 09.4 +03 07.6 -22.2 +0.2<sup>m</sup>  
Rest







171

Date Tuesday April 21-22

Y-C

Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
7749	HD 86720	9 52.6	84 24	T25	E103-0	Set 011	+12.0	7 52	8 44	1
7750	" 87500	10 00.3	16 14	"	"	"	+11.8	8 51	9 21	2
7751	" 98960	11 18.2	0 41	"	"	"	+11.8	9 28	10 08	3
7752	104904	11 59.7	86 08	"	"	"	+11.7	10 17	10 47	4
7753	110093	12 30.6	86 17	"	"	"	+11.7	10 54	11 34	1
7754	111164	12 42.2	12 30	"	"	"	+11.5	11 42	12 00	2
	Focus 16.1									
				Outside thru base 6 <sup>S</sup>						
7755	" 120102	13 45.4	5 59	"	"	"	+11.5	00 08	02 00	3
7756	" 130025	14 40.8	17 3	"	"	"	+11.7	00 50	02 00	4
7757	" 132294	15 40.4	17 43	"	"	"	+11.7	01 30	02 30	1
7758	" 150500	16 36.7	25 23	"	"	"	+11.7	02 00	03 30	2
7759	" 155520	17 18.9	03 01	"	"	"	+11.8	03 18	04 11	5

Desk light - out

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Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp	REMARKS
8 4	24 W	87 12	1-2	748	KO $1\frac{1}{2}-1\frac{1}{2}-1\frac{1}{2}$	impossible to guide well - windy
9 1	58 W	16 02	1-2	656	FO $1\frac{1}{2}-1\frac{1}{2}-1\frac{1}{2}$	
10 08	27 W	+0 25	1-2	726	KO $1\frac{1}{2}-1\frac{1}{2}-1\frac{1}{2}$	
10 57	25 W	85 55	1-2	680	FS $1\frac{1}{2}-1\frac{1}{2}-1\frac{1}{2}$	out
1 24	40 W	86 03	1-2	735	FO $1\frac{1}{2}-1\frac{1}{2}-1\frac{1}{2}$	" <u>Some clouds</u>
10 27	50 W	12 16	1-2	613	A3 $1\frac{1}{2}-1\frac{1}{2}-1\frac{1}{2}$	
10 57	0 42 W	85 40	1-2	725	KO $1\frac{1}{2}-1\frac{1}{2}-1\frac{1}{2}$	
11 27	0 34 W	17 40	1-2	737	FO $1\frac{1}{2}-1\frac{1}{2}-1\frac{1}{2}$	
11 57	0 42 W	7 39	1	702	KO $1\frac{1}{2}-1\frac{1}{2}-1\frac{1}{2}$	
12 27	0 25 W	24 50	2	709	FO $1\frac{1}{2}-1\frac{1}{2}-1\frac{1}{2}$	
1 57	1 08	72 52	2	731	KO $1\frac{1}{2}-1\frac{1}{2}-1\frac{1}{2}$	
						Apr 21 MC SC SW MT ST
						+51.3 -3 13.9 +3 26.1 -0 <sup>m</sup> 32.8 +0.1
						$\frac{1}{4}$ turn to Pet.

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Date *Wednesday April 23/42 L-C* Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle h
7760	HD. 89344	10 134	25 14	T-25	E-103-0	5 <sup>00</sup> .011	16.8	20 00	20 55	1
7761	" 101151	11 339	34 12	"	"	"	16.8	21 03	21 53	2
7762	" 101606	11 300	05 43	"	"	"	16.8	21 40	22 22	3
7763	" 110640	12 382	61 42	"	"	"	17.0	22 09	23 03	4
7764	" 110536	13 325	58 00	"	"	"	17.0	23 09	23 59	1
7765	" 118006	13 324	77 04	"	"	"	17.0	23 36	23 50	2
7766	" 134 473	15 5	50 27	"	"	"	17.3	01 00	01 32	3
7767	" 125 332	15 105	22 33	"	"	"	17.0	01 36	02 16	4
7768	" 145 694	16 072	14 06	"	"	"	17.0	02 31	03 17	1
7769	" 154 314	16 577	47 20	"	"	"	17.2	03 21	03 41	2
7770	" 164 250	17 717	43 31	"	"	"	15.0	04 01	05 01	3

Ending Time  
E.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp	REMARKS
0 24 W	25 00	1-2	9.60	K <sub>0</sub>	12-12-12	BSC. - keeps about long of field seeing
0 19 E	33 57	3	9.43	K <sub>2</sub>	12-12-12	improving
0 27 W	53 30	3-2	9.58	K <sub>5</sub>	12-12-12	
0 29 W	61 20	3-2	9.46	K <sub>0</sub>	12-12-12	
0 02 W	47 46	3	9.60	K <sub>0</sub>	12-12-12	
1 06 W	76 30	3-2	9.88	K <sub>5</sub>	12-12-12	
0 10 W	50 14	3-2	7.77	K <sub>0</sub>	12-12-12	
1 00 W	52 24	2	7.72	M <sub>2</sub>	12-12-12	
0 30 W	56 00	2-3	7.59	K <sub>0</sub>	12-12-12	
0 40 W	57 15	2	7.52	K <sub>0</sub>	12-12-12	
0 57	45 30	2	7.67	K <sub>0</sub>	12-12-12	

Apr. 23    MC    SC    SW    MT    ST  
 +66.3    -3.16    +12<sup>s</sup>    +17.2    +0.1<sup>m</sup>  
 next    best    t. t. Ret.  
 adv.

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Date Sunday April 23-24/52 L-C Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
7771	HD 90125	10 171	02 52	I-P5	E-103-0	SCL 011	20.8	20 15	21 11	1
7772	- 99501	11 081	41 38	"	"	"	20.2	21 13	22 07	2
7773	- 100035	11 257	49 50	"	"	"	20.1	22 03	23 03	3
7774	- 107904	12 189	43 05	"	"	"	20.2	22 37	23 57	4
7775	- 109651	12 238	26 27	"	"	"	20.2	23 03	24 17	1
7776	- 114793	13 097	19 17	"	"	"	20.2	23 44	00 34	2
7777	" 127 067	14 242	28 43	"	"	"	20.5	00 40	01 44	3
7778	" 138 803	15 293	17 29	"	"	"	20.2	01 41	02 19	4
7779	" 144 839	16 028	13 36	"	"	"	20.0	02 33	03 39	1
7780	" 150 911	16 052	15 03	"	"	"	20.1	03 45	04 45	2

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp	REMARKS
1	0 <sup>36</sup> W	02 40	1-2	7.43	K <sub>0</sub>	1/2-1/2-1/2	B.S.C.
2	0 <sup>30</sup> W	41 24	3	7.47	K <sub>0</sub>	1/2-1/2-1/2	"
11	0 <sup>05</sup> N	49 06	3	7.30	G <sub>0</sub>	1/2-1/2-1/2	"
11	0 <sup>10</sup> W	48 50	3	6.8	F <sub>0</sub>	1/2-1/2-1/2	"
0	1 <sup>02</sup> W	11 12	3	6.77	A <sub>0</sub>	1/2-1/2-1/2	"
00	1 <sup>+</sup> W	17 02	0-1-2	7.30	G <sub>0</sub>	1/2-1/2-1/2	" Wind across road help
0	1 <sup>07</sup> W	28 32	2-1	6.75	A <sub>0</sub>	1/2-1/2-1/2	"
0	0 <sup>47</sup> W	27 30	2-1	6.73	F <sub>0</sub>	1/2-1/2-1/2	"
3	1 <sup>24</sup> W	12 30	1-2	7.52	F <sub>0</sub>	1/2-1/2-1/2	Expanding
0	0 <sup>00</sup>	12 05	0	6.46	A <sub>0</sub>	1/2-1/2-1/2	"
							Apr. 24
							MC
							SC
							SW
							MT
							ST
							+53.8
							+3.69
							+353
							+14.8
							+0.2



177

Date *Friday April 24-25, 1942 H-L* Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
7781	HD 78234	09 22.2	+32 57	I-25	E-100-0	3 <sup>+</sup> 010	22.8	19 45	20 17	1
7782	821290	09 29.1	+40 24	"	"	"	22.9	20 10	20 40	2
7783	88651	10 09.3	+40 31	"	"	"	22.9	20 45	21 55	3
7784	98489	11 14.8	+67 38	"	"	"	23.0	21 58	22 28	4
7785	104964	11 59.7	+96 08	"	"	"	23.0	22 33	23 03	1
7786	108833	12 24.6	+71 17	"	"	"	23.0	23 06	23 54	2
7787	117200	13 23.7	+65 15	"	"	"	23.0	23 57	00 47	3
7788	123630	14 15.6	+35 20	"	"	"	23.0	00 03	01 33	4
7789	138503	15 21.3	+17 29	"	"	"	23.0	01 38	02 07	1
7790	15331E	16 53.6	+23 33	"	"	"	23.0	03 03	04 33	2

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
20	0 54 W	+32 46	2-3	6.67	F2	1 1/2 1 1/2 BSC Image 0.8 of length of object.
21	1 00 W	+40 12	2-3	6.90	F2	1 1/2 1 1/2 BSC n, p (high) compact
22	1 37 W	+60 14	2-3	8.00	M3	1 1/2 1 1/2 BSC Faint 2 in 1-6.8
23	1 43 W	+67 25	2-3	7.31	K0	1 1/2 1 1/2 BSC
24	0 59 W	+82 54	2	6.80	F5	1 1/2 1 1/2 Spp Image small but interesting
25	1 12 W	+86 13	2-1	7.35	F0	1 1/2 1 1/2 Spp
26	1 13 W	+85 00	1	6.74	F0	1 1/2 1 1/2 BSC Image about length of field
27	1 23 W	+87 08	1	6.63	M3	1 1/2 1 1/2 Wind very large in field
28	1 30 W	+87 18	1-0	6.90	F0	1 1/2 1 1/2
29	1 41 W	+84 25	1-0	7.30	F0	1 1/2 1 1/2

179

Date Saturday April 25-26

Y-

Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
7791	HD 83951	9 367	35 52	T-25	E 103-0	011	23.0	7 56	8 35	Y
	7 rows last		focus rows set 23 45		6 <sup>s</sup> -u <sup>s</sup>	outside tray base				2
7791 F										

Y, H<sub>2</sub>O & ... secondary with H<sub>2</sub>O + ...  
 primary with H<sub>2</sub>O, ...

Ending Time  
E.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp.	REMARKS												
S = W	35 20	1	6.37	F2	1/10-1/10	clouds cal. 28 p. 8 <sup>12</sup>												
Temp 23.0			7.14	K0														
						sky sort of turbid to let diff. segments.												
						<table style="margin-left: auto; margin-right: auto;"> <tr> <td></td> <td>HE</td> <td>SC</td> <td>SD</td> <td>MT</td> <td>ST</td> </tr> <tr> <td>Aug. 27</td> <td>+5.2</td> <td>+10.0</td> <td>+13.2</td> <td>+22.2</td> <td>+0.1</td> </tr> </table>		HE	SC	SD	MT	ST	Aug. 27	+5.2	+10.0	+13.2	+22.2	+0.1
	HE	SC	SD	MT	ST													
Aug. 27	+5.2	+10.0	+13.2	+22.2	+0.1													
						Focus test 1927 Apr 27 M												
look at					25"	Setting 1 focus 23.45												
LT cuff off. Some bright spots						5 23.25												
						8 23.35 <u>End of the</u>												
						3 filters out, Astria II 35.10"												

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Date Tuesday April 27-28 1929 Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
7792	H 10187580	11 043	+16 24	T 25	E 1030	317	+17.7	20 22	21 22	2
Tuesday, April 28 29				Y-C.						
7793	H 11108651	12 238	26 27	T 25	E 1030	011	+20.0	10 25	10 55	3
7794	" 111591	12 453	23 24	"	"	"	+19.9	10 59	11 49	2
7795	" 122675	13 582	46 15	"	"	"	+19.5!	11 56	12 56	1
7796	" 129030	14 37.4	21 33	"	"	"	+17.7	01 00	01 50	2
7797	" 131184	15 120	26 45	"	"	"	+19.6	01 58	03 08	2
7798	" 156234	17 06	27 52	"	"	"	+17.6	03 14	04 14	2
7799	" 168574	18 110	27 37	"	"	"	+17.3	04 07	04 47	1

cloudy in daytime, clearing but with haze  
p. 182

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Altitude	azimuth	REMARKS
	1 11 W	21 10	2	651	F0 1/2	330	cloudy day, intermittent hazy clouds
							sky hazy & damp in early evening, clearing around 10 PM
10 55	37 W	26 13	2	677	A3 1/2-1/2-1/2		
	1 10 W	23 09	2-1	746	K0 1/2-1/2-1/2		
	1 05 W	46 03	2	704	K5 1/2-1/2-1/2		star does not see in good luck
	1 20 W	31 20	2	701	G5 1/2-1/2-1/2		
	0 10 W	35 11	2-1	765	M5 1/2-1/2-1/2		
	1 10 W	43 45	2-1	717	K2 1/2-1/2-1/2		near ground level - in the shadows?
	1 15 W	39 38	2	714	K0 1/2-1/2-1/2		

		MC	SC	SW	HR, ST
April 29	+57.3	-3 22.5	+2 12.1	+08.5	-0.1
May 1	+59.1	-3 25.2	+2 52.3	-01.9	-0.1
			Advs bumps	Retard 1/2 turn	



cloudy most of day. Clearing in evening.  
Clearing with cool W wind.

p. 184

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
21:25	0 48 W	+16 02	2-3	6 56 FO	1 1/2 1/2 1/2 DSC. Light cloud occasionally
21:29	1 15 W	+54 03	2-1	6 74 F8	1 1/2 1/2 1/2 Amounts more in N, drifting in SW & C
21:57	1 26 W	+52 09	2-1	7 34 KO	1 1/2 1/2 1/2 being visible
22:15	2 35 W	+51 47	2-1	7 30 G5	1 1/2 " " regarding release
22:20	1 57 W	+60 25	1-2	6 76 FO	1 1/2 - 1 1/2 - 1 1/2 Fine but looking better in direction Light cloudier in haze after just a min of 1/2 hour, more clearly gathering in

	MC	SC	SW	MT	ST
May 4	12	+60.2	-3 30.7	+3 16.8	-06.8 -0.3 <sup>m</sup>
				add 6" to one watch	



185

Date Tuesday May 5-6 Y-C Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	SHt	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	H	Hour Angle End
7505	HD 88231	10 05.3	37 53	I-25	E103-0	SOT 011	+11.4	8 05	9 35	3	
7506	HD 101980	11 39.1	25 47	"	"	"	+11.8	9 42	11 12	4	
7507	HD 125530	14 14.9	39 12	"	"	"	+12.0	23 25	20 45		
7508	143209	15 50.0	37 58	"	"	"	+11.8	00 40	32 16		
7509	137325	17 32.0	37 26	"	"	"	+11.7	02 20	15 30	3	
7510	173216	18 02.0	31 21	"	"	"	+11.7	03 24	16 30	4	
<p>May 7 - date of transferring of I-25</p>											
T-1	<p>Spot on tube; the entire inner surface of a glass lens, 5-10            1. will be [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ]            2. [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ]</p>										
T-2	<p>13 } been analyzed</p>										

Ending Time  
E.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp	REMARKS
2 <sup>h</sup> 02 <sup>m</sup> W	37 40	1-0	714	K0	1/2-1/2-1/2	Hazy -
2 06 W	25 31	0	737	K5	1/2-1/2-1/2	Clear, but thick again at 10 <sup>35</sup>
1 02 W	39 01	3	726	G5	1/2-1/2-1/2	Thick at first but clearing
0 57 W	39 50	0	744	K0	1/2-1/2-1/2	
0 50 W	37 20	0-1	715	K0	1/2-1/2-1/2	some haze in afternoon
0 25 W	36 30	0-1	735	K0	1/2-1/2-1/2	visibility interrupted in afternoon

		MC	SC	MT	ST
May 6	12	+03.2	-08.0	-05.0	-0.1 <sup>m</sup>
		Rest	Rest		
		wt 0.5 added	wt dec to 1.5		
May 7	12	+03.4	-10.5	+316.7	-05.6 <sup>m</sup> -0.2
May 8	12	+01.9	-10.9	+318.1	-12.1 <sup>m</sup> -0.2



Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
2 03	2 03 W	+47 02	1-2	7.48	K0 1/2-1/2-1/2	ESG. mirror very astigmatic
2 11	1 51 W	+37 04	2-3	7.59	M5 1/2-1/2-1/2	" mirror improving but not good
2 23	1 06 W	+41 01	2-3	7.54	K0 1/2-1/2-1/2	"
2 31	0 55 W	+23 28	2	7.48	K0 1/2-1/2-1/2	"
2 38	1 19 W	31 55	2-1	7.79	K5 1/2-1/2-1/2	" seeing poorer
2 45	1 33 W	13 44	1-2	7.95	K5 1/2-1/2-1/2	" fading down near end.

Rain cleared about 9 P.M.

Saturday, opened up, seeing v. bad decided not to work  
in view of shortage of plates.

Monday Moderate N.W. winds seeing miserable, let out of night for

Tuesday. cloudy & rain all day cleared around 10 P.M.  
came up - found mirror badly fogged - Put heat on.

R. H. H.



Ending Time  
E.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp	REMARKS
10 14	20 46	0	7.7	65	12-12-12 B3.C.
10 14 W	23 30	1	7.45	R0	12-12-12
10 14 W	17 14	2	7.67	R0	12-12-12
10 14 W	32 14	3	7.54	R0	12-12-12
10 14 W	32 30	2.1	7.31	R0	12-12-12
6.3'	outside thru base	6.5			
5'	inside apex	5.5			
					Focus ok - could be a little longer, but as temp will probably be increasing, better leave where it is
					NO SE SW NIT ST 12 10.24 -10.3 -3.18 -0.12 0.1

191

Date Tuesday May 19-20 Y-C Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
<del>7822</del>	93075	10 39.8	57 26							
7822	H.D. 127065	14 24.2	36 39	I-25	103-0	011	+20.0	10 18	11 48	4
7823	143209	15 54.0	39 58	"	"	"	+20.0	11 52	01 42	1
7824	159026	17 27.1	32 57	"	"	"	+19.8	01 47	02 37	2
7825	172958	18 37.7	31 31	"	"	"	+19.8	01 42	03 08	3

Thursday, May 21-22, 1942

Noted new shipment (-may 21 '42). against <sup>(last)</sup> opened box of Nov 1941  
 with noticeable spots. Now very noticeably faster, slightly grey, poor

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp	REMARKS
				7.31	F0	Sky Thick no go.
11:48	54 <sup>m</sup> W	36 25	1-0	7.19	K0	1/2-1/2-1/2 " "
01:00	1 17 W	39 51	1-0	7.44	K0	1/2-1/2-1/2
03:00	0 40 W	38 55	1-0	6.77	F2	1/2-1/2-1/2
03:30	0 00	31 34	1-0	6.47	A0	1/2-1/2-1/2 and up at 3:00 permanently

	MC	SC	SW	MT	ST
May 21	+01.6	-27.3	+28.3	-02.0 <sup>s</sup>	+0.2 <sup>m</sup>
22	+01.0	-28.2	+27.0	+00.8 <sup>s</sup>	-0.2 <sup>m</sup>

unobscured



193

Date Monday, May 25-26, 1942 H-C Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
7826	HD 108985	12 26.3	+08 10	I-25	E-103-0	* set 010	-17.5	20 48*	22 08	2
7827	122742	13 58.6	+11 16	"	"	"	-17.8	22 10	23 50	3
7828	129430	14 37.4	+21 33	"	"	"	-17.8	23 02	23 50	4
7829	132877	14 36.4	+22 27	"	"	"	-17.8	23 52	01 12*	1
7830	132920	15 48.1	+10 05	"	"	"	-17.8	01 18	02 16	2
7831	142000	15 46.5	+10 45	"	"	"	-17.8	02 20	03 16	3

Partly cloudy & haze all day. p. 194  
 Thick at sunset but thinning out after dark.

\* H water substantially correct.

\* C water correct.

Ending Time  
E.S.T.

Hour	Angle End	Declination	Seeing	Ptg. Mag.	Distance	Direction	REMARKS
1	33 ✓	+07 55	1 ±	7.34	K 5	1 1/2 - 1 1/2	35°C Haze * Emulsion used May 21 '42
0	54 ✓	+11 14	1-2	7.14	F 5	1 1/2 1 1/2	" Haze.
1	05 ✓	+21 22	1-2	7.21	F 5	1 1/2 1 1/2	" Haze.
2	09 ✓	+22 16	1-2	7.45	K 0	1 1/2 1 1/2	"
0	11 ✓	+23 15	1-2	7.48	K 0	1 1/2 1 1/2	"
1	15 ✓	+23 43	1-2	7.52	K 0	1 1/2 1 1/2	" Haze.

		MC	SC	SW	MT	ST
May 26	15	-01 <sup>s</sup>	-33 <sup>s</sup>	-05 <sup>s</sup>	-10 <sup>s</sup>	+0.2 <sup>m</sup>
	WBEN				Reset	
27	12	+00.8	-36.2	-10.7	-12.8	+0.3 <sup>m</sup>

195

Date

Wednesday July 27 1916 A.C. Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
7832	HD 100003	12 34	65 19	I-25	F-103+0	S <sup>11</sup> 010	+ 16.7	20 53	22 12	
	[Open Field]									
7833	HD 102000	13 39	65 10				+ 16.7	20 53	22 12	
7834	103000	13 39	72 37				+ 16.7	20 53	22 12	
7835	104000	13 39	72 37				+ 16.7	20 53	22 12	
7836	105000	13 39	72 37				+ 16.7	20 53	22 12	

Ending Time  
E.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp.	REMARKS
1 20 W	63 23	0	735	F0	12-11-12 6-5 App det.
1 20 W	63 37	1	760	150	12-11-12 B.S.C.
1 20 W	63 47	1	717	A3	12-11-12 " "
1 20 W	73 42	1-0	760	A3	12-11-12 " "
1 20 W	73 34	1-0	712	F0	12-11-12 " "



Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp.	REMARKS
1 <sup>15</sup>	1 <sup>30</sup> W	85 53	0-1	6.80	F <sub>5</sub> 1 $\frac{1}{2}$ -1 $\frac{1}{2}$ -1 $\frac{1}{2}$	Supp. List. Light haze
2 <sup>15</sup>	4 <sup>20</sup> W	57 12	1	7.31	F <sub>0</sub> 1 $\frac{1}{2}$ -1 $\frac{1}{2}$ -1 $\frac{1}{2}$	Ruthen's Binary " Light haze
1 <sup>12</sup>	1 <sup>13</sup> W	47 40	1	6.58	A <sub>0</sub> 1 $\frac{1}{2}$ -1 $\frac{1}{2}$ -1 $\frac{1}{2}$	Supp. Clearing. moving at 20 <sup>00</sup> 21 <sup>35</sup> ETC
0 <sup>52</sup>	0 <sup>52</sup> W	06 06	0-2	6.72	F <sub>0</sub> 1 $\frac{1}{2}$ -1 $\frac{1}{2}$ -1 $\frac{1}{2}$	BBC
1 <sup>45</sup>	1 <sup>45</sup> W	03 43	2-1	7.21	K <sub>2</sub> 1 $\frac{1}{2}$ -1 $\frac{1}{2}$ -1 $\frac{1}{2}$	" general haze - a few light clouds. with

	MC	SC	SW	MT	ST
June 1	-02.0	-44.6	+26.4	-01.8	+0.4 <sup>m</sup>

3	-02.9	-48.0	+20.2	-00.5	+0.4
---	-------	-------	-------	-------	------

4	+06.5	-49.9	+19.1	+00.0 <sup>s</sup>	+0.4 <sup>m</sup>
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Ending Time E.S.T.	Hour Angle End	Declination.	Seeing	Ptg. Mag.	Comp.	REMARKS
25	4 <sup>02</sup> W	57 13	1	7.31	F <sub>0</sub> 1/2-1/2-1/2	Ruthie's Binary. <span style="float: right;">1/2 ... !!!</span>
25	1 <sup>25</sup> W	50 06	1	6.63	A <sub>3</sub> 1/2-1/2-1/2	B.S.C.
25	1 <sup>16</sup> W	85 28	1	7.19	A <sub>5</sub> 1/2-1/2-1/2	Supp. List.
25	1 <sup>08</sup> W	36 57	1	7.47	F <sub>0</sub> 1/2-1/2-1/2	Supp. Light clouds - spots ...
25	0 <sup>30</sup> W	31 06	2	6.73	B <sub>7</sub> 1/2-1/2-1/2	" too many ... same



201

Date

Sunday June 5/42 L

Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Error Angle End
7847	HD. 110093	12 346	86 17	I-25	E-10350	set 010	22.9	20 47	21 27	2 30 W
7848	" 93075	10 398	57 26	"	"	"	22.9	21 35	22 35	3 40 W
7849	" 134493	15 05.1	50 27	"	"	"	22.8	22 41	23 31	4 50 W
<del>7850</del>	<del>" 145694</del>	<del>16 07.2</del>	<del>56 06</del>	<del>"</del>	<del>"</del>	<del>"</del>	<del>22.8</del>	<del>23 35</del>		1

Ending Time  
E.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp.	REMARKS
21 29 1 30 W	86 03	2-3	7.35 Fo	1/2-1/2-1/2	Supp List.
22 33 4 30 W	57 13	2-1	7.31 Fo	1/2-1/2-1/2	Ruther's Binary
23 31 1 03 W	50 16	2	7.27 Ko	1/2-1/2-1/2	B.S.C
	55 59	2	7.59 Ko	1/2	sky suddenly blanketing in showy after starting. Waited till 1 <sup>10</sup> sky still thick. So closed up.



Clouds + rain during day. Leaving at dusk. f234

Ending Time  
E.S.T.

Hour Angle  
End

Declination

Seeing

Ptg. Mag.

REMARKS

22.5-

1 57 W

-57 13

0

731 FD 1 1/2 1 1/2

R/V Binary (10<sup>h</sup> 24<sup>m</sup> + 57.4<sup>s</sup> at ?) Low Stage.  
Clouds intermittently but dull sun.  
Clouds over most of day.

\* Telescope about balanced in PA at 4<sup>30</sup> W. Swayed  
involuntarily a little. Had to weight it to keep it more  
slit.

		MC	SC	SW	MT SW	
Jun. 8	12	-05.2	-57.5	+17.5	+03.0	+0.4

205

Date Monday June 8-2/42 S.H.L

Julian Day

Plate No.	Object	R.A. 1900 <u>42</u>	Declination 1900 <u>42</u>	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Star Angle End
7851	NGC 6205	16 32.5	+36 34	Newtonian	E-100:0			21 14	21 15	1
7852	" 5904	16 10.4	+02 19	"	"			21 23	21 29	2
7853	" 5466	14 03.1	+24 47	"	"			21 38	22 02	2
7854	" 5653	13 13.6	+18 01	"	"			22 07	22 33	2
7855	" 6205	16 32.5	+36 34	"	"			22 49	22 53	2
7856	" 5653	13 13.6	+18 01	"	"			23 04	23 26	2
7857	" 5466	14 03.1	+24 43	"	"			23 33	23 53	2
7858	" 5466	14 03.1	+24 48	"	"			23 57	0 17	2
7859	" 5466	14 03.1	+24 43	"	"			0 18	0 30	1
7860	" 6333	17 15.7	-18 27	"	"			0 47	1 13	2
7861	" 6366	17 24.4	-05 01	"	"			1 21	1 39	1
7862	" 6779	17 14.2	+30 04	"	"			1 44	1 58	2
7863	" 6760	19 09.2	+00 52	"	"			2 04	2 38	1
7864	" 6366	17 24.4	-05 01	"	"			2 41	2 59	1
7865	" 6779	17 14.2	+30 04	"	"			3 04	3 18	1

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
21	0 56 W		Good		Refocused on Arcturus. 4 guide stars
22	0 58 W				Field not identified.
22	2 09 W		Fair		Refocused after this exp.
22	0 57 E				4 guide stars
22	3 02 W				4 guide stars
23	2 40 W				3 guide stars
0	3 04 W				
1	3 26 W				
1			Fair / good		Refocused after this exp.
1	1 05 W				
1					
2	0 26 W				
2	3 25 W				
2	0 50 W				
					MC    SC    SW    HT    ST Jun. 9 12    -06.0    -59.2    +13.3    +04.0 +0.4

207

Date Sunday June 9-10/42 S.H.L. Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
7866	MCG. 6205	16 35.5	+36 34	Newtonian	E-103a·0			21 15	21 19	1 27 E
7867	" 6909	13 15.4	+02 19	"	"			21 23	21 29	1 5
7868	" 5466	14 03.1	+28 48	"	"			21 36	22 00	1 51 W
7869	" 5053	13 13.6	+18 01	"	"			22 18	22 42	2 23 W
7870	" 6205	16 35.5	+36 34	"	"			22 47	22 51	1 55 E
7871	" 5053	13 13.6	+18 01	"	"			23 05	23 29	2 1 W
7872	" 5466	14 03.1	+28 48	"	"			23 48	00 18	1 08 W
7873	" 6366	17 20.9	-05 01	"	"			00 24	00 44	1 20 E
7874	" 6333	17 15.7	-18 27	"	"			00 49	01 09	1 20 E
7875	" 6333			"	"			01 10	01 30	2 20 E
7876	" 6979	19 142	+30 04	"	"			01 41	01 55	1 14 E
7877	" 6960	19 190	+00 52	"	"			02 00	02 31	1 31 W
7878	" 6366	17 24.4	-05 01	"	"			02 40	02 08	2 08 W
7879	" 6979	19 142	+30 04	"	"			03 03	03 15	2 15 W

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS																						
21 9	2 27 E		Faint		From Antares. Squid																						
21 20					Light scattered clouds over region.																						
22 00	0 51 W				Light clouds over region																						
22 46	2 23 W																										
22 57	0 55 E				1 off 30 sec scan																						
23 00	3 10 W				Haze. now light clouds quite steady, but																						
23 00	3 00 W				Some delayed by clouds - clouds during approach																						
					← Reference																						
23 05	3 20 E																										
23 10	0 20 W																										
23 15	2 15 W				Position stable - sky murky																						
23 20	0 30 W																										
					<table border="0"> <tr> <td></td> <td></td> <td>MC</td> <td>SC</td> <td>SW</td> <td></td> </tr> <tr> <td>Jun. 10</td> <td>12</td> <td>-06.5</td> <td>-61.1</td> <td>+10.1</td> <td></td> </tr> <tr> <td></td> <td>12</td> <td>-07.7</td> <td>-65.3</td> <td>+08.9</td> <td> <table border="0"> <tr> <td>HT</td> <td>ST</td> </tr> <tr> <td>+06.0</td> <td>+0.5</td> </tr> </table> </td> </tr> </table>			MC	SC	SW		Jun. 10	12	-06.5	-61.1	+10.1			12	-07.7	-65.3	+08.9	<table border="0"> <tr> <td>HT</td> <td>ST</td> </tr> <tr> <td>+06.0</td> <td>+0.5</td> </tr> </table>	HT	ST	+06.0	+0.5
		MC	SC	SW																							
Jun. 10	12	-06.5	-61.1	+10.1																							
	12	-07.7	-65.3	+08.9	<table border="0"> <tr> <td>HT</td> <td>ST</td> </tr> <tr> <td>+06.0</td> <td>+0.5</td> </tr> </table>	HT	ST	+06.0	+0.5																		
HT	ST																										
+06.0	+0.5																										





watch +0.4 not fast  
Discarded 2 plates in holders.

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Ending Time  
E.S.T.

Hour Angle  
End

Declination

Seeing

Ptg. Mag.

Comp.

REMARKS

10:38

4<sup>h</sup> 46<sup>m</sup>

57 14

0

731

FO 1/2-1/2-1/2

star looks faint

~~5-06!~~

0

718

KO 1/2

clouds plate discarded

	MC	SC	SW	MT <sub>s</sub>	SW <sub>m</sub>
Jun 15	-10.6	-11.4	+21.8	-24.8	+0.3

AT 10<sup>18</sup> FST Earthquake? mag 5.0  
back + forth period 2<sup>s</sup> amp. 2' arc ±

Not getting anything so set cap shut

May have been wind, operating in tel at  
large hr L

211

Date Monday June 15-16, 1942 H-C Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
7881	HD 121146	13 48.6	+68 49	I-25	E-103a-0	S.T. 010	+19.6	20 50	22 30	3
7882	144046	15 58.8	+05 16	"	"	"	+19.8	22 36	23 46	4
7883	153225	16 53.0	14 03	"	"	"	+19.4	23 48	01 04	
7884	171994	18 32.6	16 07	"	"	"	+19.4	01 08	02 38	2
<del>7885</del>	<del>187275</del>	<del>19 30.2</del>	<del>08 17</del>				<del>+17.4</del>	<del>02 43</del>	<del>03 13</del>	<del>2</del>

Ending Wave E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
30 22	57 W	+68 34	0	7.44 K0	1 $\frac{1}{2}$ 1 $\frac{1}{2}$ 1 $\frac{1}{2}$	BSC seeing variable but <u>very poor</u> ; large no. of sidestarts
31 24	52 W	+5 06	0	7.18 K0	1 $\frac{1}{2}$ 1 $\frac{1}{2}$ 1 $\frac{1}{2}$	seeing poor but slowly improving.
32 27	37 W	+13 59	0-1	7.29 G5	2 $\frac{1}{2}$ -1- 1 $\frac{1}{2}$	
33 28	21 W	+16 07	0	7.38 K0	1 $\frac{1}{2}$ -1 $\frac{1}{2}$ -2	
34 31	03 W	+22 23	0	7.15 K0	1 $\frac{1}{2}$ 1 1 $\frac{1}{2}$	

Jun. 17      12      MC      SC      SW      MT      ST  
                                  -12.2      -1 15.2      +24.0      -22.7      +0<sup>m</sup>.4

213

Date Wednesday June 17 18/48 L-C Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Exposure	
7885	H.D.	130025	14 406	19 18	I-25	E-103a0	Set .010	19.7	21 04	22 04	1
7886	"	142244	15 484	17 43	"	"	"	19.7	22 08	23 02	2
7887	"	154301	16 596	19 50	"	"	"	19.8	23 08	00 58	3
7888	"	172531	18 362	30 20	"	"	"	19.7	01 01	02 31	4
7889	"	173274	20 374	17 11	"	"	"	19.8	02 37		

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp.	REMARKS
22 34	0 46 W	19 06	1-2	7.35	K <sub>0</sub> 1 $\frac{1}{2}$ -1 $\frac{1}{2}$ -1 $\frac{1}{2}$	B.S.C. little heavy
22 15	0 37 W	17 33	1-2-3	7.44	K <sub>0</sub> 1 $\frac{1}{2}$ -1 $\frac{1}{2}$ -1 $\frac{1}{2}$	" seeing improving good
00 51	1 22 W	19 44	2-1	7.75	K <sub>0</sub> 1 $\frac{1}{2}$ -1 $\frac{1}{2}$ -1 $\frac{1}{2}$	" clouds good
	33 W	30 49	1	7.48	K <sub>0</sub> 1 $\frac{1}{2}$ -1 $\frac{1}{2}$ -1 $\frac{1}{2}$	" clouds? little heavy
		17 16		7.27	K <sub>0</sub> 1 $\frac{1}{2}$	" some clouds pale and fast



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Heavy Clouds late afternoon, breaking  
and clearing after sunset, delayed  
opening because of clouds in N.W

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp	REMARKS
20 <sup>15</sup>	32 W	34 48	1	7.43 K <sub>0</sub>	1/2-1/2-1/2	B.S.C.
	26 W	09 46	1	7.74 K <sub>5</sub>	1/2-1/2-1/2	"
21	33 W	14 53	1	8.01 M <sub>0</sub>	1/2-1/2-1/2	" general haze not a star left.



217

Date June 19-20 Friday Y-C ..... Julian Day .....

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Star Angle End
7892	HD 127067	14 24.2	28 44	T-25	E-103a-D	010	+24.3	9 06	10 02	1 W
7893	HD 137220	15 20.7	45 37	"	"	"	24.0	10 09	11 03	2 W
7894	HD 150429	16 35.9	63 17	"	"	"	24.0	11 10	12 00	3 W
7895	HD 153697	16 55.9	65 11	"	"	"	23.9	00 05	00 45	4 W
7896	HD 173398	18 52.0	62 37	"	"	"	23.9	00 48	01 38	1 W
7897	HD 183611	19 35.5	62 21	"	"	"	23.9	01 10	02 40	2 W
<p>Monday June 23-23 H-C            Clear early evening. Clouding over just at dark. Very heavy thunderstorms</p>										

7 June Bell &amp; Friends &amp; some for 1st photo

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp	REMARKS
10 02	1 <sup>h</sup> 06 W	28 32	1	6.95 A0	1/2-1/2-1/2	Br * to right <sup>SP</sup> <sub>7</sub> under
11 03	1 14 W	45 27	1	7.31 K2	1/2-1/2-1/2	
12 00	57 W	63 12	1-2	7.62 K5	1/2-1/2-1/2	
30 45	20 W	65 29	1	6.72 F0	1/2 1/2-1/2	
0 10	0 32 W	62 41	1	7.01 K0	1/2-1/2-1/2	
0 10	1 48 W	62 24	1-0	7.64 K5	1/2 1/2-1/2	

		MC	SC	SW	MT	ST
Jun. 22	12	-16.3	-1 23.7	+22.3	-27.8	+0.3
23	12	-16.8	-1 25.4	+19.9	-29.8	+0.3

219

Date Tuesday June 23 24 Y-C Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.
7898	42130084	14 41	33 12	I-25	51000	010	+18.2	8 56	10 06 2
7899	140028	15 38	12 57	"	"	"	18.1	10 11	11 01 3
7900	155146	17 07	00 29	"	"	"	18.1	11 07	11 51 4
	From Inst		From 672635				6-8		
7901	56393	17 34	33 13				18.1	11 57	01 17 1
7902	184704	9 37	14 10				16.0	01 25	02 15 2
				23.35					
<p>Wednesday June 24/24</p> <p>From Inst } Contacts through base slit 23.30</p> <p style="padding-left: 250px;">23.25</p> <p>Focus Inst at 23.35. next. L.</p>									

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comb.	REMARKS
0:00	1 <sup>h</sup> 11 <sup>m</sup> W	23° 00'	2	752	K1a 1/2-1/2-1/2	
1:00	1 10 W	13 48	2-1	722	G5 1/2-1/2-1/2	
1:00	29 <sup>m</sup> W	00 23	2-1	697	F= 1/2-1/2-1/2	
						<i>Small star, possibly K2</i>
2:00	53 W	23 09	2-1	760	K2 1/2-1/2-1/2	
2:00	03 W	11 13	2	747	K0 1/2-1/2-1/2	
					6-5	
					6-5	



Cloudy all afternoon and early evening

Ending Time  
E.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp
0 02 W 24 53		0-1	7.25 K <sub>2</sub>	12-12-15
2 02 W 16 56		1-2	7.55 N <sub>6</sub>	12-12-15
17 02 20 53		1-2	7.55 K <sub>0</sub>	12-12-15
20 02 W 16 55		2	7.55 E <sub>0</sub>	12-12-15

223

Date

Shots Day  
Thursday June 25 1942 L.C. Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Exposure End
7906	H.D. 146623	16 120	62 24	I-83	E-103a-0	567 010	21.1	21 04	27 50	1
7907	" 147042	16 197	63 48	"	"	"	21.1	21 15	00 01	2
7908	" 152086	17 372	28 14	"	"	"	21.2	00 20	01 50	3
	" 172 211	22 225	31 22	"	"	"				

Ending Time E.S.T.	Hour-Angle End	Declination	Seeing	Ptg. Mag.	Comp.	REMARKS
0 <sup>34</sup>	W	57 16	1	7.26	K0	12-12-12 13.28
0 <sup>40</sup>	W	63 37	1	7.47	K0	12-12-12 - High, like clouds
0 <sup>12</sup>	W	28 13	=	7.66	K0	12-12-12 - High, like clouds
				7.87	K0	Clearing in places but ground haze all over.
						No better at 3. am cloudy





Ending Time  
E.S.T.Hour Angle  
End

Declination

Seeing

Ptg. Mag.

REMARKS

2 12 W -61 43 1 7.58 K5 1/2-1/2-1/2

2 5 N -62 12 1-2 7.67 K5 1/2-1/2-1/2

1 17 W +16 47 1-2 7.94 Ma 1/2-1/2-1/2 Stage

1 15 W +16 26 1 8.66 K5 1/2-1/2-1/2

1 12 W +03 50 1 6.11 A<sub>0</sub> 1/2-1/2-1/2

	WREN	MC	SC	MT	ST
Jun. 27	9	-22.5	-1 33.1	-26.5	+0.4



Power goes off at 4 A.M. DST

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp.	REMARKS	
9:36	1 29 W	51 14	2-1-0	635	F0	1/2-1/2-1/2	4.0
10:11	1 49 W	60 39	1-2	646	F0	1/2-1/2-1/2	
11:35	1 32 N	55 56	1-2	739	K0	1/2-1/2-1/2	disc 4 out - 4000x & 1/2" guide
0:19	2 5 W	54 36	2-3	698	F8	1/2-1/2-1/2	numbered 7913 by mistake
1:00	2 58 N	57 18	1-2	784	K0	1/2-1/2-1/2	Stage 4





231

Date Wednesday July 8-9/22 G.H.L. Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.
7122	NGC 5366	17 294	-05 01	Newman	F-12-0			22 15	22 36
7123	" 6402	17 341	-03 18	"	"			22 36	22 56
7124	" 6383	17 417	-12 27	"	"			23 03	23 18
7125	" 6779	19 162	130 04	"	"			23 25	23 39
7126	" 6460	17 386	100 32	"	"			23 47	23 59
7127	" 6382	17 281	-03 12	"	"			23 42	23 53
7128	" 6366	17 244	-05 01	"	"			23 07	23 17
7129	" 6781	21 473	-12 47	"	"			23 23	23 47
7130	" 6362	17 259	-05 01	"	"			23 36	23 46
7131	" 6371	21 487	-12 47	"	"			23 24	23 34
7132	" 6779	19 162	130 03	"	"			23 41	23 51
7133	" 6381	17 275	-12 47	"	"			23 40	23 50

Ending Time  
E.S.T.

Hour Angle  
End

Declination

Seeing

Ptg. Mag.

REMARKS

0.00

Very poor, cloudy sky, but some stars visible  
near mag. 10.0

0.00

← Reference

0.00

← 2.5" from star, 100x magnification  
from 10.0

Darken all plates



233

Date Thursday July 9-10/42 S-H-A Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
7934	N 926245	16 34.5	-36 24	Newton	E-103a-G			21 20	21 24	2
7935	5904	15 15.4	-02 19	"	"			21 57	21 33	1
7936	58 <sup>4</sup> 66	14 03.1	+27 48	"	"			21 50	22 04	1
7937	6432	17 34.4	-03 12	"	"			23 12	23 25	1
7938	6366	17 24.4	-05 01	"	"			23 36	23 40	1
7939	6323	17 15.7	-12 27	"	"			23 51	00 05	1
7940	6402	17 34.4	-03 12	"	"			00 12	00 25	1
7941	6779	19 14.2	+30 04	"	"			00 44	00 54	1
7942	6760	19 8.0	+0 52	"	"			01 32	01 59	1
7943	6462	17 34.4	-03 12	"	"			02 05	02 20	1
7944	6366	17 24.4	-05 01	"	"			02 25	02 30	2
7945	6205	16 39.5	+34 34	"	"			02 52	02 56	1
7946	6779	19 14.2	+30 04	"	"			03 04	03 10	1
7947	7089	21 30.2	-1 05	"	"			03 15	03 19	1

Friday - cloudy all night and for the day, partly clear at night.

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
2 2			fair		large
2 3	1 08 W				cloud
2 4	2 32 N				
2 5	0 05 W		fair		< re-focused { same as the 2 clouds you begin and track with that platform.
3 0	1 13 W				
3 1	1 01 W		very good		at depth following
3 2	1 46 W				
3 3	0 35 W				< re-focused { same as the 2 clouds. Center only moved, platform the same
3 4	1 43 W				
3 5	3 41 W				
4 0	4 06 W				
4 1	5 08 W				
4 2	3 04 W				
4 3	0 41 W				Left cloud. Same as plate



Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS	
207	30° W ✓		very poor		clouds in the vicinity	Mark Loge
208						Mark Loge
209	130° W				Heard right	

237

Date *Sunday July 12, 1942* S-H-L Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.
7951	NGC 6805	16 32.5	-36 34	Nippon	L-1000			21 17	21 21
7952	" 3904	15 15.4	+02 19	"	"			21 25	21 29
7953	" 3966	14 03.1	-28 48	"	"			21 36	21 48
7954	" 6366	17 24.4	-05 01	"	"			21 36	22 06
7955	" 6402	17 34.1	-43 12	"	"			22 12	22 25
7956	" 6333	17 15.7	-18 27	"	"			22 33	22 47
7957	" 6979	17 14.2	+30 04	"	"			22 51	22 55
7958	" 3966	14 03.1	-28 48	"	"			22 00	22 17
7959	" 6333	17 15.7	-18 27	"	"			22 23	22 33
7960	" 6348	17 24.4	-05 01	"	"			22 48	23 06
7961	" 6702	17 34.1	-43 12	"	"			20 51	20 19
7962	" 6779	17 14.2	+30 04	"	"			20 27	20 47
7963	" 6760	17 08.0	+10 56	"	"			20 51	21 21
7964	" 6452	17 24.4	-05 01	"	L1000			01 25	01 43
7965	" 6366	17 24.4	-05 01	"	"			01 30	02 04
7966	" 6205	16 39.8	-36 34	"	"			02 10	02 15

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
0	15 E		good		Very poor guide stars
1	17 W				"
2	48 W				"
0	15 E				Very poor guide stars. Refocused. Very faint stars. Difficult to see.
0	03 E		good		
1	33 W				
1	11 E				
4	11 W				
1	53 W		fair		refocused. Low intensity. Very faint guide stars.
1	21 W				
1	48 W				
0	27 W		fair		stars looking good. Difficult to get higher.
1	17 W				
3	10 W				Pgt. E-100 for alignment of 6/17/91
3	44 W				refocused
4	40 N				Stage



no	Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
		0 19 W				
		0 29 W				
		0 38 W				
		0 52 W				
Fine night. Sky very clear.						
<p>July 13      <math>\mu\epsilon.</math>      <math>\delta\epsilon.</math>      <math>\text{sw.}</math>      <math>\mu\tau.</math>      <math>\text{st.}</math></p> <p>                 <math>-31.7</math>      <math>-1^{\circ}50^{\prime}5''</math>      <math>-0.3</math>      <math>+9.8</math>      <math>+0.1</math></p>						



241

Date

Monday, July 13 1942 5 A. Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.
7971	NBC 5904	15 15.4	+02 19	102	F-10320			21 39	21 43
7972	6702	18 39.5	+36 34	"	F-10320			21 50	22 10
7973	5466	14 02.1	+23 45	"	F-10320			22 15	22 29
7974	6702	17 30.4	-03 52	"	F-10320			22 31	22 45
7975	6702	17 30.4	-03 51	"	F-10320			22 59	23 25
7976	6702	17 30.7	-03 57	"	F-10320			23 37	23 51
7977	6709	19 42.2	+03 04	"	F-10320			23 55	00 03
7978	5466	14 02.1	+23 46	"	F-10320			00 00	00 20
7979	6402	17 30.4	-03 52	"	F-10320			00 24	00 44
7980	6702	17 30.4	-03 51	"	F-10320			00 54	01 05
7981	6702	17 30.4	-03 51	"	F-10320			01 10	01 20
7982	6702	17 30.4	-03 51	"	F-10320			01 35	01 51
7983	6702	20 41.0	-12 47	"	F-10320			01 57	02 15
7984	6702	19 19.2	+21 24	"	F-10320			02 22	02 30
7985	6702	20 40.2	-12 47	"	F-10320			02 35	02 45

Clouds from southwest, clearing quickly  
after dark.

Time Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
	35 W		good		E-103-0 2.2m 2 1/2 x 3 1/4 plates
	33 W				E-103-0 - 3 1/2 x 4 1/2 "
	32 W		3		
	31 W		good		refracted
	30 W		fair		Very large dark plate 22 1/2 x 28 1/2 inches
	29 W		good		22 1/2 x 28 1/2 inches
	28 W				clouds cleared away
	27 W				
	26 W		very good		
	25 W				Cloud over guide star but small
	24 E				Multiple small plates
	23 W				refracted
	23 W				
	23 W		good		2123.00 killed the eye 11.00 x 20.00
	22 W				2.48 sub star very faint
	21 W				

Much trouble with clouds latter part of night.

243

Date Monday July 14, 1942 C-11 Julian Day \_\_\_\_\_

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.
7986	NGC 6795	16 39.5	+31 34	N	B-102-2			21 15	21 19
7987	5466	14 23.1	+23 15					21 25	21 37
7988	5053	13 13.6	+19 21					21 42	21 56
7989	5904	15 15.4	+03 13					22 01	22 05
7990	5451	13 13.2	+12 11					22 15	22 21
7991	5462	14 23.1	+23 25					22 32	22 37
7992	6866	17 24.8	+05 22					22 51	22 55
7993	4383	17 16.7	-10 27					23 27	23 31
7994	6779	13 29.2	+32 24					23 57	23 57
7995	5466	14 23.1	+23 25					00 14	00 24
7996	6333	17 15.7	-19 27					00 27	00 31
7997	6266	17 24.4	-15 11					00 45	00 57
7998	2781	20 42.3	+12 47					01 13	01 17
7999	6781	20 47.3	-12 47					01 23	01 41
8000	6866	17 24.8	+05 22					01 55	02 07

East with wind, a little tumbling in the middle

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Altitude	Remarks
	0 18 E		fair to poor			27 x 3 1/2 inch plate. Daily not very good small, mostly even
	2 46 W		poor			
	3 58 W		very poor			clouds deep with light. daily 113
	2 01 W		poor			← (3 Sept. 18. 12. 31 - 11. 18. 50 3 min about 12. 31 - 11. 18. 50
	4 27 W					
	3 56 W					
	2 51 W					Brighten up in 1/2
	3 03 W					from 1/2 to 3/4 inch with plate 7000, 7001-7001 1/2
	2 31 W		poor			← (72 Sept. 18. 04. 50 - 11. 20. 31. 20 3 min.
	2 13 W					
	5 33 W					
	2 37 W					
	2 40 W					
	0 17 E					
	0 23 W					Sept 18 0. 31 - 14. 58 17. 50 3 min
	3 57 W		poor			



Ending Time  
E.S.T.Hour Angle  
End

Declination

Seeing

Ptg. Mag.

REMARKS

52° N

good

11° N

20° W

20° N

Very transparent sky all night. Late evening fog  
and cold clouds at dawn.  
5 gully.

247

Date

Wednesday July 15-1914 5-4-1 Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
8005	2000 6205	16 38.5	16 34	"	5100			21 13	21 15	1
8006	5486	14 03.1	28 48	"	"			21 22	21 32	1
8007	5453	19 13.6	+18 01	"	"			21 35	21 42	2
8008	5904	15 15.4	452 19	"	"			21 44	21 52	1
8009	5466	14 03.1	+28 48	"	"			21 57	22 07	2
8010	5053	19 18.0	119 01	"	"			22 14	22 20	1
8011	5466	14 03.1	+28 48	"	"			22 24	22 34	1
8012	6386	17 24.7	-05 01	"	"			22 47	22 57	1
8013	6383	17 15.7	-18 37	"	"			23 01	23 11	1
8014	2402	17 34.4	-23 12	"	"			23 14	23 24	1
8015	2799	19 18.2	+30 04	"	"			23 32	23 41	1
8016	5466	14 03.1	+28 48	"	"			23 42	23 53	1
8017	5466	14 03.1	+28 48	"	"			23 57	24 07	1
8018	2326	17 24.7	-05 01	"	"			00 16	00 25	1
8019	6383	17 15.7	-18 27	"	"			00 24	00 33	1
8020	2402	17 34.4	-23 12	"	"			00 43	00 53	1

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Latitude	Longitude	REMARKS
21.1	2 05 E		fair				
21.2	2 45 W						
21.3	3 45 W						
21.4	4 52 W						
21.5	3 12 W						
21.6	4 22 W		fair				
21.7	3 47 W						
21.8	2 02 W		fair				refocused - some artifacts
21.9	1 02 W						
21.0	0 52 W						
21.1	0 5 E						
21.2	0 58 W						
21.3	2 22 W						refocused
21.4	1 17 W						
21.5	0 39 W						
21.6	0 18 W						some loss in flat field in valley of seeing



249

Date Wednesday, July 11 (1945) 5-12-A Julian Day                     

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
8021	WSP 6997	20 49.5	-12 47	Alvan Clark	F100			01 00	01 16	2
8022	6366	17 24.4	-05 01	"	"			01 20	01 33	1
8023	6760	19 28.0	-05 56	"	"			01 34	01 56	1
	<del>7578</del>	<del>21 30.2</del>	<del>-01 03</del>							
Taken July 10 after lunch, returned from Ottawa										
8024	Form	Focus	23 15	setting on slide	1.5"					
			23 25	"	5.0					
			23 55	"	5.5		Outside	Thermometer	out	4
							Emuls	apex		6
			23 35	on	2000	focus				

Ending Time  
E.S.T.Hour Angle  
End

Declination

Seeing

Ptg. Mag.

REMARKS

12 E

22 W

24 W

In first minute gate was slipping slightly, in 2 clouds  
clouded up from north

Equinox at plates

	n.c.	s.c.	SW.	n.T.	s.T.
July 17	-34.8	-1 <sup>h</sup> 53 <sup>m</sup> 5	-9.9	+1.8	-0.1
July 20	-29.5	-1 <sup>h</sup> 49.8 <sup>s</sup>	+38.9	+2.5	+0.3

WBEN<sub>3</sub>      next<sub>2</sub>



Ending Time E.S.T.	Hour Angle: End	Declination	Seeing	Ptg. Mag.	Comp	REMARKS
22 <sup>14</sup>	1 20 W	35 23	0	7.65 K5	1 $\frac{1}{2}$ -1 $\frac{1}{2}$ -1 $\frac{1}{2}$	comparison satisfactory
23 <sup>14</sup>	1 13 W	30 22	0	7.71 K2	1 $\frac{1}{2}$ -1 $\frac{1}{2}$ -1 $\frac{1}{2}$	fine
0 <sup>14</sup>	1 12 W	34 20	0-1	8.12 M2	1 $\frac{1}{2}$ -1 $\frac{1}{2}$ -1 $\frac{1}{2}$	satisfactory
0 <sup>14</sup>	0 31 W	32 27	0-1	7.22 G0	1 $\frac{1}{2}$ -1 $\frac{1}{2}$ -1 $\frac{1}{2}$	strong
0 <sup>14</sup>	1 00 W	30 41	0-1	7.60 K0	1 $\frac{1}{2}$ -1 $\frac{1}{2}$ -1 $\frac{1}{2}$	strong
0 <sup>14</sup>	1 24 W	00 38	0	7.14 G0	1 $\frac{1}{2}$ -1 $\frac{1}{2}$ -1 $\frac{1}{2}$	comparison satisfactory
						comparison satisfactory
						Exposure could be 15% less on average.



Ending Time  
E.S.T.Hour Angle  
End

Declination

Seeing

Ptg. Mag.

Comp.

REMARKS

22 13

1

7.60 Ke 12-

B.S.C. Sky filled in 5 min after  
starting. Remained cloudy until  
till midnight. Sky still cloudy,  
went home.

July 22. (WBEN 142) <sup>MC.</sup> S.E. S.W. M.T. S.T.  
-38.0 -1<sup>3</sup>56.6 +20.2 -4.2 +0.2

255

Date Wednesday July 22-23 Y-N<sub>6</sub> Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	H	Hour Angle End
8030	HD 151623	16 435	79 06	I-25	E103a-0	set 010	+26.3	8 42	9 18	2	20 <sup>m</sup> W
8031	HD 153299	16 535	50 13	"	"	"	+26.4	9 23	10 33	3	21W
8032	HD 161162	17 389	57 22	"	"	"	+26.4	10 37	11 33	4	37W
8033	HD 174205	18 443	70 41	"	"	"	+26.6	11 40	12 20	1	20W
8034	HD 184936	19 316	59 57	"	"	"	+26.1	0 24	1 04	2	5W
8035	HD 189127	19 534	57 59	"	"	"	+26.1	1 10	1 46	3	36W
8036	HD 197939	20 418	56 08	"	"	"	+26.0	1 50	2 40	4	40W
8037	HD 200000	21 246	59 19	"	"	"	+25.9	2 44	3 54	1	12W
	From back	outside	from back		8 foot	e <sup>s</sup> u <sup>s</sup>					

8030  
 8031  
 8032  
 8033  
 8034  
 8035  
 8036  
 8037

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp	REMARKS
9 18	20 <sup>m</sup> W	79 06!	2	738	KO 1/2-1/2-1/2	
10 33	21 W	50 10	2-1	805	Ma 1/2-1/2-1/2	
11 33	37 W	57 25!	0-2	784	KO 1/2-1/2-1/2	Two stars fainter with a fainter star
12 20	20 W	70 46	2-3	773	K2 1/2-1/2-1/2	
	15 W	60 05	2	761	K5 1/2-1/2-1/2	
1 40	36 W	58 10	2-1	719	KO 1/2-1/2-1/2	
2 30	40 W	56 20	2	759	Ma 1/2-1/2-1/2	7036
2 50	2 12 W	59 35	1-2	779	Ma 1/2-1/2-1/2	7037

WBEN m.c. s.c. s.w. M.T. S.T.  
 July 23 13h. -38.8 -1°52'5 +17.9 -4.0 +0.2



257

Date Thursday July 23-24 A-16 Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	H	Star Angle Ecl
8037	HD 146603	16 12.0	67 24	I-25	E-103a-0	<sup>det</sup> .010	26.1	20 43	21 23	2	3.7 W
<del>8038</del>	<del>HD 160933</del>	<del>17 37.6</del>	<del>69 38</del>	<del>I-25</del>	<del>E-103a-0</del>	<del>.010</del>	<del>26.0</del>	<del>21 37</del>	<del>21 56</del>	<del>3</del>	
8038	HD 16428	17 56.0	75 20	I-25	E-103a-0	.010	26.0	22 10	22 54	4	4 W
8039	HD 173720	18 42.9	54 47	I-25	E-103a-0	.010	25.8	23 00	23 30	1	3.3 W
8040	HD 179933	19 07.4	45 47	I-25	E-103a-0	.010	25.8	23 36	23 52	2	2 W
8041	HD 184102	19 27.8	79 24	I-25	E-103a-0	.010	25.9	23 58	00 12	3	4 W
8042	HD 187764	19 46.6	65 11	I-25	E-103a-0	.010	25.8	00 17	00 45	4	6 W
8043	HD 190252	19 58.9	70 12	I-25	E-103a-0	.010	25.8	00 54	01 15	1	7 W
8044	HD 194215	20 17.8	63 41	I-25	E-103a-0	.010	25.8	01 22	01 40	2	8 W
8045	HD 196287	20 34.6	11 05	I-25	E-103a-0	.010	25.8	01 45	02 01	3	9 W
8046	HD 197015	20 49.6	12 10	I-25	E-103a-0	.010	25.8	02 04	02 12	4	10 W
8047	HD 202352	21 11.7	43 59	I-25	E-103a-0	.010	25.8	02 17	02 37	2	11 W
8048	HD 204597	21 27.6	59 19	I-25	E-103a-0	.010	25.8	02 41	03 23	1	12 W
8049	HD 209700	22 02.1	55 31	I-25	E-103a-0	.010	25.7	03 30	04 00	3	13 W
				Trans test							

considerable haze in early part of night.

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
21 23	58 W	67 20	0-1	7.28 KO $1\frac{1}{2}-1\frac{1}{2}-1\frac{1}{2}$	talk to the mill about? OK
22 30		69 46		6.72 F8 $1\frac{1}{2}$	R Acute from 14m steel field line - fair
22 34	48 W	78 25	1-2	7.56 K5 $1\frac{1}{2}-1\frac{1}{2}-1\frac{1}{2}$	(guiding poor) Exp OK
23 30	33 W	54 56	1-2	7.07 G5 $1\frac{1}{2}-1\frac{1}{2}-1\frac{1}{2}$	OK
23 30	30 W	65 58	1-2	6.25 A2 $1\frac{1}{2}-1\frac{1}{2}-1\frac{1}{2}$	OK
23 30	34 W	79 32	1	6.06 A2 $1\frac{1}{2}-1\frac{1}{2}-1\frac{1}{2}$	guiding poor Exp OK
23 30	48 N	68 20	0-1-2	6.63 F0 $1\frac{1}{2}-1\frac{1}{2}-1\frac{1}{2}$	improved seeing - compact. ok
23 30	57 W	70 18	3	7.24 K5 $1\frac{1}{2}-1\frac{1}{2}-1\frac{1}{2}$	a very good image - stars fine setting, 1 ok
23 30	07 W	63 50	3	7.10 K5 $1\frac{1}{2}-1\frac{1}{2}-1\frac{1}{2}$	OK
23 30	17 W	51 18	3	6.62 K0 $1\frac{1}{2}-1\frac{1}{2}-1\frac{1}{2}$	seeing excellent guiding poor
23 30	18 W		3	5.69 A0 $1\frac{1}{2}-1\frac{1}{2}-1\frac{1}{2}$	(guiding poor) strong
23 30	12 W	64 09	3-2	6.77 G0 $1\frac{1}{2}-1\frac{1}{2}-1\frac{1}{2}$	rather strong
23 30	48 W	59 32	3-2	7.79 Ma $1\frac{1}{2}-1\frac{1}{2}-1\frac{1}{2}$	OK
23 30	47 W	53 54	2	7.47 K0 $1\frac{1}{2}-1\frac{1}{2}$	RA at 20 constant 23 30 strongly affected and deep field?
	Focus 23.35				Focus OK



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Date Friday July 24-25 A-N Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
8049	HD 153697 <sup>5</sup>	16 55.9	65 11 <sup>17</sup>	I-25	E-103a-0	.010	26.7	20 49	21 19	4
8050	HD 154319	16 59.7	65 20	I-25	E-103a-0	.010	26.3	21 24	22 12	1
8051	HD 161193	17 39.1	51 52	I-25	E-103a-0	.010	25.8	22 18	22 58	2
8052	HD 169321	18 18.6	44 40	I-25	E-103a-0	.010	25.8	23 02	23 52.3	3
8053	HD 166515	17 41.6	55 47	I-25	E-103a-0	.010	25.7	23 58	00 32.4	4
8054	HD 191096	20 03.1	56 03	I-25	E-103a-0	.010	25.7	00 35	00 53	1
8055	HD 197101	20 36.4	55 59	I-25	E-103a-0	.010	25.8	00 56	01 18	2
8056	HD 200740	21 00.2	49 57	I-25	E-103a-0	.010	25.8	01 30	02 06.3	3
8057	HD 210905	22 08.5	58 34	I-25	E-103a-0	.010	25.8	02 09	02 39	4
8058	HD 213720	22 28.4	53 31	I-25	E-103a-0	.010	25.7	02 42	03 08	1
8059	HD 217673	22 57.3	56 34	I-25	E-103a-0	.010	25.6	03 12	03 42	2
8060	HD 221661	23 28.9	44 31	I-25	E-103a-0	.010	25.7	03 47	04 25	3

Clouds roll west at sundown -

Wanted to see whether they were carrying off

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
21.3	0 14W	65 16	1	6.72 F0	$1\frac{1}{2}-1\frac{1}{2}-1\frac{1}{2}$ Another star in field (almost buried out)  faintly visible
21.4	1 04W	69 18	1-2	7.50 K0	$1\frac{1}{2}-1\frac{1}{2}-1\frac{1}{2}$ wandering light clouds change with Too Strong
21.5	1 09W	51 56	1	7.12 K0	$1\frac{1}{2}-1\frac{1}{2}-1\frac{1}{2}$ Too Strong
22.0	1 24W	49 46	1-2	7.51 K0	$1\frac{1}{2}-1\frac{1}{2}-1\frac{1}{2}$ Little Strong
22.1	0 41W	57 00	1-2	7.17 G5	$1\frac{1}{2}-1\frac{1}{2}-1\frac{1}{2}$ Too Strong
22.5	0 40W	56 13	1-2	6.46 F0	$1\frac{1}{2}-1\frac{1}{2}-1\frac{1}{2}$ Little Strong
23.0	0 32W	55 52	1-2	6.78 F0	$1\frac{1}{2}-1\frac{1}{2}-1\frac{1}{2}$ Fine
23.1	0 57W	52 61	2	7.45 K0	$1\frac{1}{2}-1\frac{1}{2}-1\frac{1}{2}$ Fine
23.4	0 51W	58 57	2-3	7.52 K0	$1\frac{1}{2}-1\frac{1}{2}-1\frac{1}{2}$ Fine
23.5	0 30W	53 50	3	7.47 K0	$1\frac{1}{2}-1\frac{1}{2}-1\frac{1}{2}$ OK
24.0	0 35W	56 52	3	7.57 K2	$1\frac{1}{2}-1\frac{1}{2}-1\frac{1}{2}$ in other star in field  much OK
24.2	0 28W	44 48	3	7.06 G5	$1\frac{1}{2}-1\frac{1}{2}-1\frac{1}{2}$ Fine



Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp	REMARKS
9 30	51 <sup>26</sup> W	38 38	1-2	7.57	K2 1/2-1/2-1/2	
10 35	27 <sup>57</sup> W	10 34	1-2	7.47	K0 1/2-1/2-1/2	Haze
	57 <sup>127</sup> W	31 19	1	7.65	Ma 1/2-1/2-1/2	↑
	26 W	22 22	1-2	7.51	K2 1/2-1/2-1/2	16:00:00 obs. field <del>MT</del> E Haze
	09 W	19 43	1-2	7.44	K0 1/2-1/2-1/2	Haze
	27 W	21 02	1-2	7.40	K5 1/2-1/2-1/2	Haze, clear, sky flatter sky thick, clear up.

	NR	SE	SW	MT	ST
Jul. 27	-42.0	-1 59.6	+16.4	-05.2	+0.2 <sup>m</sup>
28	-42.6	-1 59.9	+15.3	-05.2 <sup>s</sup>	+0.2 <sup>m</sup>
30	-44.2	-2 00.9	+11.3	-13.5 <sup>s</sup>	+0.0 <sup>m</sup>

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Date Friday July 31 - Aug 1 A-N Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Shut	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
8067	{ 155646	17 07.8	0 29	I-25	E-103a-0	<sup>set</sup> 0.10	25.0	20 33	21 01	1-10 W
8068	{ 162113	17 44.3	2 00	I-25	E-103a-0	0.10	25.0	21 06	21 44	1-10 W
8069	{ 167654	18 11.1	2 22	I-25	E-103a-0	0.10	24.9	21 49	22 29	2-10 W
8070	{ 172635	19 20.5	36 15	I-25	E-103a-0	0.10	24.9	22 36	23 08	2-10 W
8071	{ 187580	19 47.2	37 35	I-25	E-103a-0	0.10	24.9	23 12	00 04	3-10 W
8072	{ 199941	20 55.2	16 26	I-25	E-103a-0	0.10	24.9	00 09	00 39	3-10 W
8073	{ 207476	21 43.9	36 06	I-25	E-103a-0	0.10	24.9	00 48	01 42	4-10 W
<del>8073</del>	<del>{ 218261</del>	<del>22 01.8</del>	<del>19 22</del>	<del>I-25</del>	<del>E-103a-0</del>	<del>0.10</del>				<del>4-10 W</del>
8073 A	Outside through base exp 65				Focus		23.35		24.8	
	Inside through base exp 45				Shut		23.15			

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp	REMARKS
21:01	0 10W	0 29	1-2	6.94	F <sub>5</sub> 1/2-1/2-1/2	
21:09	0 16W	2 04	2	7.46	KD 1/2-1/2-1/2	light clouded ground over the survey ground
22:09	0 34W	2 26	2	7.66	M <sub>6</sub> 1/2-1/2-1/2	sky very transparent - light cloud
23:08	0 44W	36 25	2-3	7.45	K <sub>6</sub> 1/2-1/2-1/2	
00:04	0 34W	37 45	2-1	7.66	M <sub>6</sub> 1/2-1/2-1/2	roll out wind at along telescope
00:11	0 1W	16 40	1	6.57	F <sub>2</sub> 1/2-1/2-1/2	few light clouds in south <span style="float: right;">field</span>
01:00	0 15W	36 22	1-2	7.78	K <sub>5</sub> 1/2-1/2-1/2	dense clouds quickly covering sky
				6.92	F <sub>8</sub>	thus preventing further observation



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Date Sunday, August 2-3, 1942

Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	
8074	{	150429	16 35.9 + 63 17	I-25	E-100-0	set 010	25.8	20 38	21 44	1	
8075		160933	17 37.6 + 69 38	"	"	"	25.8	21 47	22 21	"	
8076		170829	18 26.4 + 20 46	"	"	"	25.9	22 25	23 21	2	
8077		187038	19 42.7 + 32 38	"	"	"	25.8	23 23	0 05	2	
8078		194220	20 19.4 + 42 40	"	"	"	25.7	0 03	0 54	3	
		From tent; outside through base 6 <sup>s</sup> + 4 <sup>s</sup> .						25.6			
		From 23.35+; till 23.15+									

Cloudy most of day, clearing late afternoon. P 200  
 scattered clouds throughout.

2000 set by lake, checked by bright star. -2.5 and  
 2.5 at 13.3

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.			REMARKS
21:34	1 33 W	+63 15	0-1	7.62	K5	1 $\frac{1}{2}$ -1 $\frac{1}{2}$ -1 $\frac{1}{2}$	Setting 2 clouds in region delayed start.
22:04	1 10 W	+69 40	0-1	6.98	F8	1 $\frac{1}{2}$ -1 $\frac{1}{2}$ -1 $\frac{1}{2}$	8 Seeing variable. Clouds in NW.
22:28	1 21 W	+20 50	0-1	7.37	G5	1 $\frac{1}{2}$ -1 $\frac{1}{2}$ -1 $\frac{1}{2}$	(HA not used)
22:55	0 16 W	+32 48	1	7.25	K2	1 $\frac{1}{2}$ -1 $\frac{1}{2}$ -1 $\frac{1}{2}$	
23:00		+42 51	1	7.33	K0	1 $\frac{1}{2}$ -1 $\frac{1}{2}$ -1 $\frac{1}{2}$	

	M.E.	S.E.	S.W.	MT.	S.T.
Aug. 3.	-47.6	-2° 22.2	+41.6	-54.4	-1.0
				alt	m
				+05	+0.4

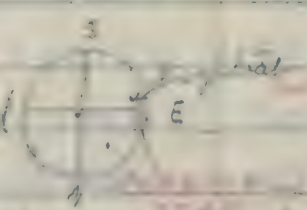
267

Date *Monday August 3-4 1942* A 16 Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
8079	162465	17 41	9 59	T-25	E-103a-0	010	22.9	20 32	21 06	4
8080	173920	18 42.9	54 47	T-25	E-103a-0	010	22.9	21 14	21 42	4
8081	181577	19 16 0	44 23	T-25	E-103a-0	010	22.5	21 44	22 12	1
8082	196771	20 41.5	38 12	T-25	E-103a-0	010	22.2	22 16	22 50	1
8083	196642	20 30.6	37 58	T-25	E-103a-0	010	22.7	22 53	23 25	2
8084	200527	20 58.9	44 25	T-25	"	"	22.5	23 28	00 12	2
8085	213242	22 52.2	32 13	T-25	"	"	22.7	00 26	00 42	2
8086	211756	23 07	34 55	T-25	"	"	22.7	00 45	01 57	2
8087	219360	23 07.7	28 44	T-25	"	"	22.8	01 05	01 56	2
8088	22924	00 21.4	27 01	"	"	"	22.8	02 06	02 12	2
8089	7351	01 20.6	28 01	"	"	"	22.8	02 51	03 27	1
8090	11624	01 49.0	36 37	"	"	"	22.7	03 34	04 06	11
8091	15138	02 21.2	50 07	"	"	"	22.6	04 11	04 41	2

Scattered clouds after sunrise

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	of detail	outmost west	REMARKS
0	11 E	12 02	2	7.02	K <sub>2</sub>	1/2-1/2-1/2	
1	32 E	54 56	2-1	7.04	Q <sub>5</sub>	1/2-1/2-1/2	
2	37 E	47 32	2	7.26	A <sub>0</sub>	1/2-1/2-1/2	transparency good
2	42 E	55 22	2	7.34	Q <sub>5</sub>	1/2-1/2-1/2	sliding contact instead of separate ring
2	37 E	38 13	2-1	7.32	A <sub>0</sub>	1/2-1/2-1/2	
2	47 E	44 40	2	7.73	A <sub>0</sub>	1/2-1/2-1/2	walk with demagnifying
1	17 E	31 30	2	6.53	A <sub>0</sub>	1/2-1/2-1/2	
1	53 E	36 51	2	6.74	E	1/2-1/2-1/2	
0	43 E	23 52	2-1	7.01	A <sub>0</sub>	1/2-1/2-1/2	other stars in field
1	36 E	27 21	2	6.4	A <sub>0</sub>	1/2-1/2-1/2	
1	12 E	27 19	2	7.98	Ma	1/2-1/2-1/2	unable to make out to the left
1	13 E	36 56	2	7.39	K <sub>0</sub>	1/2-1/2-1/2	my pushing contacts in
1	31 E	50 23	2	6.55	F <sub>0</sub>	1/2-1/2-1/2	it disappeared in cloud



Aug. 4    MC    SC    SW    ME    SE  
 -48.3    -2 02.7    -02.3    +03.8    +05.2  
 Result

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Date Tuesday Aug 4 5 1942 H-16 Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
8072	HD 153226	16 53.0	+14 03	I-25	E-103-0	<sup>5x</sup> 010	21.0	20 29	21 15	3-55W
8073	160677	17 36.2	+31 15	I-25	E-103a-0	010	21.0	21 25	22 17	3-55W
8077	173383	18 39.9	+39 13	I-25	E-103a-0	010	20.9	22 20	23 10	4-30W
8075	186121	19 37.5	+42 50	"	"	"	20.9	23 12	23 56	4-30W
8076	194220	20 19.4	+42 40	"	"	"	21.0	23 58	00 20	1-55W
8077	206632	21 38.3	+45 18	"	"	"	20.9	00 35	01 25	1-55W
8078	213387	22 25.7	+48 57	"	"	"	20.9	01 30	02 08	2-30W
8079	221661	23 28.7	+44 31	"	"	"	21.0	02 12	02 36	2-30W
8100	5273	00 49.4	+48 09	"	"	"	21.0	02 42	03 32	3-55W
8101	7647	01 11.3	+44 23	"	"	"	21.0	03 37	04 11	3-55W

Ending Time  
E.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
-------------------	-------------	--------	-----------	---------

2:50	55W +14 21	0-1	7.27	G5 1/2-1/2-1/2	
2:51	17W +31 18	1-2	7.65	Ma 1/2-1/2-1/2	
2:52	03W +39 18	1-2	7.73	K5 1/2-1/2-1/2	
2:53	51W +43 20	2	7.74	Ma 1/2-1/2-1/2	
2:54	0 44W +42 51	2	7.33	K0 1/2-1/2-1/2	
2:55	0 20W +45 35	2	7.82	Ma 1/2-1/2-1/2	
2:56	0 15W +47 08	2	7.52	K0 1/2-1/2-1/2	
2:57	0 11E +44 47	2-3	7.06	25 1/2-1/2-1/2	
2:58	0 44E +48 26	2-3	7.75	Ma 1/2-1/2-1/2	
2:59	0 27E +44 38	3	7.66	K5 1/2-1/2-1/2	



77?  
K0948?  
K0922?

← to adjacent star OK

OK  
OK  
OK

fully caught the fainter plate

OK

271

Date 20 Tuesday, Aug. 5-6, 1942 H Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End.
8102	HD 147662	16 18.1	+68 48	I-25	E-103-0	Slit 010	20.9	20 20	21 20	4-2
8103	160933	17 376	+69 38	"	"	"	21.3	21 24	21 52	4-8
8104	164736	17 577	+75 10	"	"	"	21.2	21 55	22 27	1-
	constant		rotated the camera			7 <sup>5</sup> 5 <sup>5</sup>		22	center	
<p>Thursday August 1-7, 1942 <u>H</u>          Clouds - thick haze all first half of night</p>										

Ending Time  
E.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS																		
40 W	+68 45	0-1	7.47 KO	1 1/2 1 1/2 1 1/2 Light clouds																		
53 W	+69 41	1	6.98 F8	1 1/2 1 1/2 1 1/2																		
	+75 14	1-2	7.44 KO	1 1/2 1 1/2 1 1/2 Light clouds over region - 7 round of sky at time Star gone 22 <sup>25</sup> thick still pretty thick 23 <sup>00</sup>																		
N.B. Lengths from slightly (0.05) 23.40 <sup>(+)</sup>																						
				<table border="1"> <thead> <tr> <th></th> <th>MC</th> <th>SC</th> <th>SW</th> <th>MT</th> <th>ST</th> </tr> </thead> <tbody> <tr> <td>Aug. 6 12</td> <td>-50.0</td> <td>-2 03.6</td> <td>-05.4</td> <td>+02.4</td> <td>+0.3<sup>m</sup></td> </tr> <tr> <td>Aug. 7 12</td> <td>-50.5</td> <td>-2 04.6</td> <td>-08.3</td> <td>+00.8<sup>s</sup></td> <td>+0.4<sup>m</sup></td> </tr> </tbody> </table>		MC	SC	SW	MT	ST	Aug. 6 12	-50.0	-2 03.6	-05.4	+02.4	+0.3 <sup>m</sup>	Aug. 7 12	-50.5	-2 04.6	-08.3	+00.8 <sup>s</sup>	+0.4 <sup>m</sup>
	MC	SC	SW	MT	ST																	
Aug. 6 12	-50.0	-2 03.6	-05.4	+02.4	+0.3 <sup>m</sup>																	
Aug. 7 12	-50.5	-2 04.6	-08.3	+00.8 <sup>s</sup>	+0.4 <sup>m</sup>																	



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Date Friday Aug. 7-8, 1942 H-No          Julian Day         

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
8105	10168323	18 17.0	23 15	I-25	E-103a-0	Set C10	22.9	21 48	23 37	21
8106	188 149	19 48.7	+36 11	"	"	"	22.8	23 21	23 55	21
8107	182535	21 11.3	+43 04	"	"	"	22.8	23 58	00 22	21
8108	205 314	21 29.4	+49 30	"	"	"	22.8	01 19	01 33	21
	<del>246632</del>	<del>24 38.3</del>	<del>+75 18</del>				<del>22.7</del>	<del>01 40</del>		
8109 F	Focus test. Outside through lens				65445		19.0			4-
	Focus set		23 40	Ill	23.15+					1.
<p>Sunday August 9-10, 1942 H Cloudy first half of day</p> <p>Sunday August 10-11, 1942 S-H-A - Cloudy</p> <p>Monday August 11-12, 1942 S-H-A - Cloudy at first of day</p> <p>Tuesday August 12-13, 1942 S-H-A - Cloudy at first of day</p>										

Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
39 W	23 19	0-1-2	7.90 K5	1/2-1/2-1/2 light clouds light N.E. wind - sky hazy at sunset
51 W	+36 22	1-2	7.33 K5	1/2-1/2-1/2 light haze at sun
17 W	+43 8	1-2	7.32 K2	1/2-1/2-1/2 longer at times than before
49 W	+79 79	2	5.76 A0	1/2-1/2-1/2 trouble with declination guiding and altitude control - search which more telescope is declination about 4 hours trying on. Badly! - tried to see if it could clear! - still cloudy - went home & left plate in holder no. 4 in dome as a more experience may be gotten at setting P.
	+45 36	—	7.82 M6	1/2

Focus OK.

Aug 10 12 S-A  
 11 12 S-A  
 12 12 S-A  
 10 9.5 DST  
 11 12 S-A  
 12 12 S-A

		MC	SC	SW	MT	ST
Aug. 10	12	-53.6	-2 10.7?	-01.9	+09.2	+0.1 <sup>m</sup>
	11	-54.3	-2 06.3	+01.1	+07.9	-0.0 <sup>m</sup>
	12	-55.1	-2 06.9	-00.7	+06.8	-0.1 <sup>m</sup>

275

Date Thursday August 12 1942 S-H-N<sup>6</sup> Julian Day

Plate No.	Object	R.A. 1900 1942	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
8109	NGC 6333	17 15.7	-18 27	Newton	E-163A-0			22 12	22 36	2 24
8110	6779	19 14.2	+30 04	"	"			22 42	22 58	2 34
8111	7089	21 30.2	-01 07	"	"			23 04	23 12	2 42
8112	6981	20 49.8	-12 47	"	"			23 17	23 57	2 50
8113	6981	20 49.8	-12 47	"	"			23 59	00 23	3 02
8114	6779	19 14.2	+30 04	"	"			00 28		3 10
	<del>7492</del>	<del>23 05.4</del>	<del>-15 55</del>							

Clouds - haze at dawn, alternately improving and deteriorating. Very poor.

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Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
22	27 W		Poor		Thick haze. <sup>Had a table for calculation.</sup> Aug 13 12 MC <sup>s</sup> - 55.9 - 2 07.2 SC <sup>m</sup> SW MT ST -05.1 +06.3 -0.1
	53 W				Hazy
	09 E				Hazy
	16 W				
	43 W		Poor		← Refracted on stars near equator & meridian No good.

277

Date Friday August 11, 1945 Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
8115	V30 5314	15 15.4	+12 19	W. T. M.	E 1000-3	-	-	20 43	20 47	
8116	6323	17 15.7	-18 27					20 53	21 09	
8117	6015	17 34.4	-03 12					21 15	21 30	
8118	6233	17 16.7	-18 27					21 42	21 52	
	V30 433	17 15.4	-15 12					21 54 30	22 04 11	
	V30 5411	17 16.7	-18 27							
8119	6171	17 14.2	+32 31					22 19	22 29	
8120	6333	17 15.7	-18 27					22 35	22 50	
	6422	17 35.5	-23 12							
8121	6770	17 14.2	+32 31					23 22	23 30	
8122	6031	23 40.0	-12 57					23 47	00 17	
	6760	17 14.2	+32 31							
8123	6779	17 14.2	+32 31					20 28	20 40	

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
	33 W		Fair		10 minutes or so of
	36 W				log. trailed in Dec. Temp. 7.5
	41 W		Fair		
	49 W				
	54 W				
					Small amount of log.
	37 W				
	23 W				
					the next day
					to make log in full the available
					<u>very poor work</u> - <u>poor</u> , in fact.

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Date

Saturday Aug 11 1946

Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.
8124	19 16 55	19 22	57 09	T 25	D 1060	1/4"	26.2	21 41	22 05
	<del>19 16 35</del>	<del>19 22</del>	<del>57 09</del>						
8124 F	From best			Outside through lens	22-55		26.0		
				From	23.40				
				Full	23.20				

Assume mean 22<sup>20</sup> ?

Cloudy until after sunset. Clouded up around  
 22.00. Wind from west. Temperature 50°F  
 at 8.00. Wind from west.

Hour Angle End	Declination	Seeing	Ptg. Mag.
23 15	37 15	2-0	7.14 35
			7.43 36

REMARKS  
 All done on my first night of observing.  
 22.15. Wind from west. Clouds coming in. Wind  
 at 22.30. Sky clear. Clouds gone at 22.30.  
 22.45. Wind from west. Clouds coming in. Wind  
 at 22.50. Sky clear. Clouds gone at 22.50.  
 from anti position.  
 Sky completely filled in at 22.47.

A bad end to a bad week!



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Date Sunday August 16-17, 1946 H. Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Hit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
8125	{ HD 166207	19 045	+50 49	I-25	103A-0	hit	+24.2	21 11	21 51	2-11
8126	{ 176707	18 565	+50 41	"	"	"	+24.1	21 53	22 23	2-11
8127	{ 184786	19 31.0	+49 02	"	"	"	+24.2	22 25	23 19	3-0
8128	{ 195820	20 28.5	+51 58	"	"	"	+24.2	23 22	23 56	3-1
	{ 203630	21 18.4	+29 53	"	"	"				

Clouds most of day. Clear in late afternoon. Thin clouds  
early morning. Chasing again around ponds.

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.
21	07 W	+50 51	1-2	7.35 KO 12 1/2 12
22	07 W	+50 47	1-2	7.17 GS 12 1/2 12
23	08 W	+49 12	1-2	7.54 MB 12 1/2 12
23	048 W	+52 10	2	7.27 KO 12 1/2 12
				7.28 KO

REMARKS

Light clouds briefly over field. They went off about  
half of night!

Some haze

Too thick.

Haze becoming thicker - more widespread.

Fairly strong winds with the thick clouds  
in Valley, much of evening. Fairly  
strong 22<sup>nd</sup>-23<sup>rd</sup>.

	MC	SC	SW	MT	ST
Aug. 17	-58.8	-2 09.0	-19.3	+03.4	-0.1

283

Date Monday August 17-18, 1942 H-L Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
8129	ND 156284	17 11.6	+23 53	I-25	103A-0	<sup>cut</sup> 010	+24.0	20 <sup>05</sup>	20 <sup>37</sup>	2-2
8130	161815	17 42.6	+38 56	"	"	"	+24.0	20 <sup>40</sup>	21 <sup>28</sup>	3-2
8131	172933	18 42.2	+18 36	"	"	"	+23.9	21 <sup>32</sup>	22 <sup>14</sup>	1-2
8132	184534	19 31.4	+12 55	"	"	"	+23.9	22 <sup>17</sup>	22 <sup>39</sup>	1-8
8133	186726	19 41.4	+40 28	"	"	"	+23.9	22 <sup>43</sup>	23 <sup>33</sup>	2-2
8134	196134	20 30.3	+41 25	"	"	"	+23.9	23 <sup>36</sup>	00 <sup>12</sup>	2-8
8135	208722	21 12.7	+41 50	"	"	"	+23.8	00 <sup>16</sup>	01 <sup>00</sup>	2-2
8126	212047	22 16.4	+26 26	"	"	"	+23.9	01 <sup>05</sup>	02 <sup>15</sup>	3-2
8137	22 17.76	23 23.9	+37 29	"	"	"	+23.9	02 <sup>19</sup>	03 <sup>16</sup>	4-2
8138	1675	0009.0	+30 59	"	"	"	+23.9	03 <sup>20</sup>	04 <sup>30</sup>	4-2

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
20 3-	50 W	+23 52	1-2	7.17 K2	1 1/2 1/2 Parallax meter (approx) 20" Measured about 10:00 from h=25° to h=5°; slightly S of E; mag -8?; dist 1.2
21 3-	09 W	+38 59	1-2	7.51 K0	
22 3-	55 W	+19 43	1-2	7.45 K5	2 1/2 1/2 Seeing very variable
23 3-	08 W	+11 05	1-2	7.59 M2	2 1/2 1/2 Light haze
23 3-	17 W	+40 39	2	7.79 M9	1 1/2 1/2 1/2
24 3-	07 W	+41 40	2-3	7.43 K0	1 1/2 1/2 1/2 Light haze
25 3-	12 W	+42 05	2-3-1	7.60 K0	1 1/2 1/2 1/2
26 3-	23 W	+26 46	2-1-2	7.25 M4	1 1/2 1/2 1/2 Seeing very variable
27 3-	10 W	+37 47	1-2	7.52 K5	1 1/2 1/2 1/2
28 3-	14 W	+31 18	1-2	7.79 K5	1 1/2 1/2 1/2

	MC	SC	SW	MT	ST
Aug 18 12	-60.0	-2 <sup>m</sup> 09.6	-24.9	+02.2	-0.1 <sup>m</sup>
19 12	-60.8	-2 09.9	-22.7	+00.4	-0.2 <sup>m</sup>
21 12	-62.8	-2 10.9	-36.3	̄01.7 <sup>s</sup>	-0.3 <sup>m</sup>

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Date Sunday Aug 23-24 Y-A Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
8139	HD 162774	17 47.6	1° 20'	I-S	F 103a-0	010	+20.9	7 51	8 51	1
8140	HD 152424	18 35.0	7 16	"	"	"	20.8	8 55	9 55	1
8141	HD 186998	19 42.5	24 53	"	"	"	20.6	10 30	11 14	2
8142	HD 107249	20 32.4	15 "	"	"	"	20.4	11 18		
8143	HD 3411	00 31.9	23 25	"	"	air	18.6	2 10	3 10	1
8144	HD 5375	01 17.9	33 43	"	"	"	18.6	3 16	4 06	1
8145	HD 18337	02 51.9	35 13	"	"	"	18.5	4 12	4 52	2
	Focus Test		Outside through lens				18.6			2
			Focus	23.40						
			Felt	23.45						

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp	REMARKS
8:51	50 <sup>m</sup> W	+1 20	0	733	Ks - 1/2 - 1/2 - 1/2	3 } S.
9:55	1 06 W	7 21	0	736	K0 1/2 - 1/2 - 1/2	8 } some clouds then rain
1 14	1 19 W	25 05!	0	688	F0 1/2 - 1/2 - 1/2	3 }
	17 22	0	727	K0 1/2 -	8 } clouds	
3 3	0 26 N	23 45-	0	744	K0 1/2 - 1/2 - 1/2	2 } some haze
4 2	0 36 N	34 01	0-1	712	S - 1/2 - 1/2 - 1/2	8 } very clear
4 5	0 12 E	38 27	0-1	755	K0 1/2 - 1/2 -	2 }
					8 }	

			ME	SC	SW	MT	ST
Aug. 24	12	-65.6	-2	11.7	-48.0	-02.6	-04

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Date Monday August 24-25, 1942 H-L Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Star Angle End
8146	HD 161259	17 42.1	+44 08	I-25	E-103A-0	010	+18.2	19 46	21 50	3-
8147	169589	18 12.7	+45 10	"	"	"	+18.2	20 52	21 23	1-
8148	176544	18 57.1	+42 33	"	"	"	+18.2	21 24	22 44	4-
8149	Y 406	19 41.5	+40 22	"	"	"	"	22 47.00	22 53.00	4-
8150	Y 396	19 41.5	+40 22	"	"	"	"	22 50.00	22 53.00	4-
8151	HD 182236	20 43.3	+49 23	"	"	"	+18.3	22 59	23 45	1-
8152	215349	21 28.6	+45 25	"	"	"	+18.3	23 48	00 25	3-
8153	215310	23 00.7	+23 29	"	"	"	+18.2	00 52	01 47	2-
8154	1419	00 13.2	+10 39	"	"	"	+18.2	01 48	02 28	3-
8155	729	01 11.9	+31 14	"	"	"	+18.2	02 35	03 42	5-
8156	14373	02 14.2	+27 45	"	"	"	+18.2	03 46	04 40	4-

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Number of	Remarks
1 00 W	+44 11*	0-1	7.64	K <sub>2</sub>	12 12 12	Transfer of good, many available
1 01 W	+45 12	1	6.86	G <sub>0</sub>	12 12 12	* Let down micrometer back to 44 07:
1 02 W	+40 37	1	8.12	M <sub>0</sub>	12 12 12	
1 03 W		1	3.87	K <sub>2</sub>	12 12 12	
1 03 W		1	3.87	K <sub>2</sub>	12 12 12	
0 54 W	+44 33	1	7.52	K <sub>0</sub>	12 12 12	
1 10 W	+45 36	1	7.63	K <sub>2</sub>	12 12 12	
0 57 W	+43 46	1	7.49	K <sub>0</sub>	12 12 12	
0 57 W	+40 03	1	7.20	K <sub>0</sub>	12 12 12	
0 52 W	+31 28	1	7.32	K <sub>0</sub>	12 12 12	
0 53 W	+53 37	1	7.60	K <sub>0</sub>	12 12 12	



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Date Friday Aug 25 1942 A-L-No          Julian Day         

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Error Angle End
8157	HD 161852	17 42.7	39 22	T-25	E-1430	010	20.0	19 57	20 22	1
8155	HD 169109	18 12.7	45 10	"	"	010	20.0	20 31	21 11	1
8159	HD 175844	18 59.1	46 33	"	"	"	20.0	21 17	22 21	2
8160	HD 193217	20 19.0	45 24	"	"	"	20.0	22 35	23 25	2
8161	HD 203557	20 47	36 55	"	"	"	20.0	23 06	23 31	3
8162	HD 206731	21 39.0	47 58	"	"	"	20.0	23 40	24 00	3
8163	HD 212987	22 42.2	31 20	"	"	"	20.0	00 06	00 20	4

August 25, 1942

Tests of transparency of I-12 $\frac{1}{2}$  lens, coated  
cf. May 7 7910 T123.

E-1430-0

- T-1 Spot sensitive, lens coated in weak emulsion on surface. Antenna between  
cf. 1 with lens; end spots nearest edge of plate } This part of an  
cf. 2 with lens; end spots further from edge of plate } may plate.
- T-2 Same as above

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Remarks	REMARKS
20 20	0 35 W	39 20	3	7.56 K <sub>0</sub>	1 1/2 - 1 1/2 - 1 1/2	
	0 54 W	45 14	1-0-2	6.86 G <sub>0</sub>	1 1/2 - 1 1/2 - 1 1/2	hard clouds
	1 19 W	40 30	2-3-1	8.12 M <sub>0</sub>	1 1/2 - 1 1/2 - 1 1/2	3/4 in sky. Total 1/2 in sky
	0 37 W	42 32	3-2	7.52 K <sub>3</sub>	1 1/2 - 1 1/2 - 1 1/2	
	0 12 W	37 08	3	7.77 K <sub>0</sub>	1 1/2 - 1 1/2 - 1 1/2	203794 also in field <span style="float: right;">W → E N</span>
	0 19 W	47 30	3	7.12 K <sub>0</sub>	1 1/2 - 1 1/2 - 1 1/2	
		21 34		7.33 K <sub>2</sub>	1 1/2 - 1 1/2	- considerable haze - thin clouds coming in from NW - fairly white star in alt. checked. 00 20
Wednesday - Aug 26-27				A-L		
Cloudy all night.						



Clouds until 9:45 AM - 10:15 AM

Ending Time  
E.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Remarks	
0 20 N	45 03	3	684 A <sub>5</sub>	1 1/2 - 1 1/2 - 1 1/2	See back page for details
1 30 W	51 42	3-2	743 A <sub>2</sub>	1 1/2 - 1 1/2 - 1 1/2	Clouds occasionally
1 45 N	14 31	1-2	779 A <sub>2</sub>	1 1/2 - 1 1/2 - 1 1/2	Overcast sky
2 20 W	20 59	2	780 K <sub>5</sub>	1 1/2 - 2	Cloudy between 9:45 AM - 10:15 AM sky filled in completely with heavy clouds at 10:15 AM

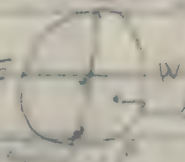
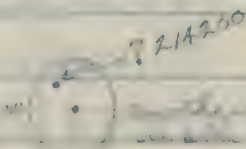
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Date Saturday, August 22, 1942 H-No. Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
8165	162789	17 47.4	+15 23	I-25	E 1030-0	5.0	+22.5	19 32	20 00	1.0
8169	163840	17 53.2	+24 01	"	"	"	+22.5	20 03	21 18	1.0
8170	168323	18 11.1	+23 15	"	"	"	+22.5	20 21	21 27	1.0
8171	176541	18 55.7	+22 40	"	"	"	"	21 09	22 13	1.0
8172	188982	19 37.5	+32 49	"	"	"	+22.5	21 49	22 51	1.0
8173	196414	20 22.0	+27 35	"	"	"	+22.5	22 00	23 19	1.0
8174	200275	21 07.5	+21 45	"	"	"	+22.4	22 25	23 32	1.0
8175	205133	21 37.7	+28 40	"	"	"	+22.4	22 55	24 04	1.0
8176	212513	22 20.8	+32 33	"	"	"	+22.3	23 09	24 20	1.0
8177	214493	22 37.5	+34 21	"	"	"	+22.2	01 04	01 40	1.0
8178	220070	22 56.3	+39 23	"	"	"	+22.2	01 45	02 09	1.0
8179	222130	23 38.7	+46 03	"	"	"	+22.3	02 19	02 41	1.0
8180	2352	00 21.2	+51 21	"	"	"	+22.5	02 41	03 02	1.0
8181	1221	00 46.6	+54 45	"	"	"	+22.3	03 00	03 41	1.0

Ending Time  
E.S.T.

Hour Angle End	Declination..	Seeing #	Ptg. Mag.	unobscured	covered	REMARKS
0 23W	+15 31	3	7.54 KO	1/2 1/2 1/2		NOTE Nothing on plate (checked using diff. method) 2/1/92
0 21W	+23 19	3	6.92 FO	1/2 1/2 1/2		
0 18W	+23 14	3-2	7.92 MS	1/2 1/2 1/2		
0 15W	+23 10	3-2	7.76 MS	1/2 1/2 1/2		OK
0 45W	+22 57	2	7.37 MS	1/2 1/2 1/2	slight haze	OK
0 56W	+19 15	2	7.02 MS	1/2 1/2 1/2	slight haze	OK
0 11W	+21 72	3	7.23 MS	1/2 1/2 1/2		OK
1 12W	+23 49	3-2	7.47 MS	1/2 1/2 1/2	slight haze	OK
1 20W	+35 22	3-2	7.28 MS	1/2 1/2 1/2		OK
0 22W	+34 39	2-3	6.55 MS	1/2 1/2 1/2		OK
0 25W	+43 39	3	7.36 MS	1/2 1/2 1/2		OK
1 14W	+66 24	3	7.97 MS	1/2 1/2 1/2		OK
1 10	+58 34	3	7.14 KO	1/2 1/2 1/2		OK
1 07	+44 19	3	6.58 MS	1/2 1/2 1/2		OK



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Date Sunday August 30-31, 1942 H-L Julian Day.....

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
8182	ND 159 223	17 33.2	+28 14	3-25	L-10310	5" 010	24.6	19 38	20 31	1-5
8183	173 255	18 37.9	+31 31	"	"	"	24.6	20 38	21 01	1-5
8184	174 263	18 45.1	+24 53	"	"	"	24.6	21 13	21 57	1-5
8185	184 258	19 31.9	+71 47	"	"	"	24.5	21 34	22 17	1-5
8186	183 244	20 17.9	+53 16	"	"	"	24.6	22 22	23 12	2-5
8187	202 240	21 34.3	+53 36	"	"	"	24.5	22 15	23 45	1-5
8188	202 543	21 37.4	+54 35	"	"	"	24.6	22 47	00 13	2-5
8189	211 024	22 02.3	+07 33	"	"	"	24.5	00 33	01 12	3-5
8190	212 314	22 18.8	+20 05	"	"	"	24.6	01 14	01 57	1-5
8191	214 289	23 00.0	+19 01	"	"	"	24.6	01 57	02 37	1-5
8192	2131	00 46.8	+11 14	"	"	"	24.6	02 51	03 17	1-5
8193	2132	01 00.0	+30 24	"	"	"	24.6	03 20	04 17	1-5
8194	183 244	02 18.0	+35 41	"	"	"	24.6	04 14	05 00	2-5

Ending Time  
E.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	to. (min)	to. (min)	REMARKS
1 4 W	+23 14	1	7.62 K5	12	12	
2 27 W	+31 34	1-2	6.47 A0	12	12	Sun's boundary very small
2 59 W	+34 59	1-2	6.56 E0	12	12	
1 21 W	+70 52	1	7.72 K2	12	12	
1 11 W	+52 58	1	7.53 K5	12	12	
2 17 W	+83 47	1-2	6.98 E5	12	12	
1 11 W	-30 37	1-2	7.12 M0	12-12	12	Light Stage
1 17 W	-27 01	1-2	7.42 M0	12-12	12	
1 24 W	-32 15	1-2	7.48 K2	12-12	12	
1 27 W	+53 19	1-2	7.77 K0	12-12	12	
1 28 W	+51 16	1-2	6.87 A0	12-12	12	
1 27 W	+52 38	1-2	7.02 K0	12-12	12	
1 27 W	+55 17	1-2	7.30 K0	12-12	12	

MC
SC
SW
MT
ST  
 Aug. 31 12 -1 10.5 -2 16.8 -1 09.2 -03.4 -0.7



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Date Monday August 31 - September 1, 1942 H-L Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
8195	HD 162734	17 47.4	+15 22	T-25	E-103-0	S.F. C10	+25.7	19 28	22 52	3-2
8196	213940	17 53.2	+24 0.1	"	"	"	+25.8	20 24	23 52	3-5
8197	174776	18 51.8	+19 10	"	"	"	+25.9	20 55	21 35	4-3
8198	185264	19 33.2	+53 31	"	"	"	+25.7	21 39	22 11	4-9
8199	191372	21 29.5	+17 45	"	"	"	+25.7	22 14	23 06	5-1
8200	198181	21 43.5	+52 39	"	"	"	+25.8	22 49	23 45	5-7
8201	218112	21 50.7	+62 12	"	"	"	+25.5	23 47	00 10	6-2
8202	013170	01 40.7	+51 50	"	"	"	+25.5	00 32	01 25	6-8
8203	212450	23 37.7	+41 08	"	"	"	+25.5	01 37	02 13	6-10
8204	6340	01 01.8	+52 18	"	"	"	+25.5	02 16	02 48	6-12
8205	10110	01 33.2	+53 22	"	"	"	+25.5	02 28	03 34	6-14
8206	18103	02 43.2	+50 07	"	"	"	+25.5	03 25	04 30	6-16

Ending Time  
L.S.T.Hour Angle  
End

Declination

Seeing

Ptg. Mag.

REMARKS

0	53 W	+15 21	1-2	754 K0	15 15 15	Scattered clouds
1	7 W	-24 52	1-2	692 F0	15 15 15	Scattered clouds
	57 W	+19 14	2	751 K2	15 15 15	Scattered clouds
0	57 W	-07 06	2-3	741 F5	15 15 15	13.40 185305 (472) in field
	53 W	+17 52	2-3	791 W2	15 15 15	Scattered clouds
1	21 W	+52 47	2	743 K3	15 15 15	Scattered clouds
0	53 W	+15 10	2-1	751 W2	15 15 15	Scattered clouds
1	7 W	+27 11	2-1	773 K2	15 15 15	Scattered clouds
0	7 W	+01 50	2-3	761 K2	15 15 15	Scattered clouds
	53 W	+33 10	2-3	740 K0	15 15 15	Scattered clouds
0	20 W	+51 32	2-3	771 K2	15 15 15	Scattered clouds
0	51 E	+51 08	2-3-1	781 K2	15 15 15	Scattered clouds

	MC	SC	SW	MT	ST
Sp.1	-1 10.8	-2 17.7	-1 11.5	-03.5	-0.4

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Date Tuesday Sept 1-2 1942 Y-L Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
8207	HD 167304	18 095	41 08	I-25	E103a-0	010	+25.8	7 28	7 52	1
8208	" 176929	18 575	24 53	"	"	"	25.7	7 57	8 37	1
8209	" 176981	18 576	8 14	"	"	"	25.7	8 41	9 13	2
8210	" 182488	19 198	33 01	"	"	"	25.5	9 19	9 39	2 W
8211	$\alpha$ Cygni	20 380	44 55	"	Wr M	"		9 45	9 46	1
8212	$\alpha$ "	"	"	"	"	"		9 48	9 50	1
8213	HD 186532	19 399	55 13	"	E103a-0	"	25.6	10 00	10 50	1
8214	HD 197812	20 409	17 44	"	"	"	25.7	10 56	00	1
BR15	" 221662	23 253	20 18	"	"	"	25.5	00 31	01 21	1
BR16	" 225216	23 398	25 26	"	"	"	25.5	01 23	02 39	1
BR17	" 6405	01 005	09 22	"	"	"	25.5	02 16	03 46	1
BR18	" 12552	02 010	05 42	"	"	"	25.5	03 50	05 50	1

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp	REMARKS
7 52	5 <sup>m</sup> W	41 07	3	736 KO	1/2-1/2-1/2 3}	
8 37	2 <sup>m</sup> W	24 55	3	799 K2	1/2-1/2-1/2 8}	
9 3	37 <sup>m</sup> W	8 16	2-3	769 K2	1/2-1/2-1/2 3}	
9 50	42 W	33 06	3	750 KO	1/2-1/2-1/2 8}	
9 50	20 E		"	1.3 Azp	12' no filter}	
9 50	26 E		"	"	15'	
10 52	34 W	55 20	2	787 Mb	1/2-1/2-1/2 3}	1.7 filter in
11 10	37 W	17 53	2-3	Varu Mb	1/2-1/2-1/2 8}	
11 27	40 W	20 58	2	824 Ma	1/2-1/2-1/2	
11 45	43 W	25 10	2	859 Ma	1/2-1/2-1/2	
12 03	46 W	29 21	2-3	895 Ma	1/2-1/2-1/2	
12 21	49 W	33 33	2-3	931 Ma	1/2-1/2-1/2	

	MC	SC	SW	MT	ST
Sep. 2	-1 12.7	-2 19.4	-1 13.5	-03.8 <sup>s</sup>	-0.4 <sup>m</sup>
3	-1 12.5	-2 19.0	-1 13.7	-04.4 <sup>s</sup>	-0.5 <sup>m</sup>
4	##				

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Date Thursday, September 3-4, 1942 H-N<sub>o</sub> Julian Day

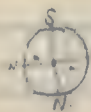
Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
8219	{ HD 160950	17 37.7	+43 31	I-25	E-103 <sup>20</sup>	010	+19.6	19 26	20 38	32
8220		17 3416	14 40.1	+36 23	"	"	+19.6	20 41	21 31	3-
8221		18 7037	19 42.7	+32 35	"	"	+19.5	21 24	22 26	4-
8222		19 6379	20 31.9	+51 21	"	"	+19.5	22 31	23 59	4-
8223		20 3620	21 18.4	+27 53	"	"	"	23 04	23 56	3-
8224		21 3044	22 27.9	+15 20	"	"	+19.2	00 01	00 47	2-
8225		22 1113	23 24.1	+42 31	"	"	+19.1	00 51	01 43	3-8
8226		22 4303	23 51.6	+27 05	"	"	+19.1	01 46	02 42	3-8
8227		6953	01 04.9	+24 56	"	"	+19.1	02 46	03 22	4-
8228		11928	01 52.0	+27 18	"	"	+19.0	03 26	04 06	4-
8229	15152	02 21.3	+26 33	"	"	+19.1	04 16	04 56	5-	
8229F	Focus 23.40 Tid 23.15			Plate holder 3	Exp. 6 <sup>5</sup> 5		Outside therm base			
					Settings 0.5	3.5	6.5	9.5		

Clouds all day, clearing before sunset

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Ending Time  
E.S.T.

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Reduction	Correction	REMARKS
21:37	32 W	+43 30	0	7.67 K0	1/2 1/2 1/2		
21:41		+36 32	0	7.25 K0	1/2 1/2 1/2		Very transparent
21:44	5 W	+32 45	0	7.25 K2	1/2 1/2 1/2		Scattered clouds 2 <sup>50-25</sup>
21:51	30 W	+51 38	0	6.54 F0	1/2 1/2 1/2		
21:54	53 W	+30 04	0-1	7.38 K0	1/2 1/2 1/2		
21:57	51 W	+15 33	1-2	7.36 K0	1/2 1/2 1/2		work done in field for the observation see notes
22:05	50 W	+22 43	1-2	7.45 K0	1/2 1/2 1/2		seeing variable
22:07	22 W	+22 20	1-2	7.65 Ma	1/2 1/2 1/2		
22:12	48 W	+25 11	1-2	7.24 K5	1/2 1/2 1/2		seeing variable
22:15	46 W	+27 31	1-2	7.37 Ma	1/2 1/2 1/2		" "
22:16	36 W	+26 46	1-2	7.36 K5	1/2 1/2 1/2		having opened slide (battery 2-23) checked the declination and found I had set it at 25. Found the correct declination and got proper star at 2-8 on plate seeing variable





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Time	Ending Time
	E.S.T.



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B.S. List 681 stars  
400 plates taken up to June 12<sup>13</sup> inclusive  
7 and 674 54 plates  
368 stars on this list.