





















Date \_\_\_\_\_ Julian Day \_\_\_\_\_

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp.	REMARKS	Object	Plate No.
9 02 2	2 19 W	+14 27	0	5.96	A <sub>2</sub> 2-2-2	Apr. 21 12	C.T. Δθ M.T.A. Δθ S.T.A. Δθ M.T.D. Δθ WATCH	
11 20 3	2 14 W	+46 09	1	7.13	A <sub>2</sub> 2-2-2	seeing very variable	fairly strong	
12 12 4	3 23 W	+8 59	1	5.7	A <sub>0</sub> 2-2-2		west wind	
1 44 3	0 27 E	+42 45	1	5.56	B <sub>8</sub> 2-2-2			
3 18 1	2 01 W	+28 31	1	6.90	A <sub>0</sub> 2-2-1	clouds coming up in the north and west at 2:30.		
						clouds over most of sky at 3:15.		
						image lost at 3:17		
						closed up. 3:35		
						Observed mid-latitude aurora of violet hue at 7:50 - 8:10.		
						Strong aurora in three arcs at about 9:00. Ray structure at 10:00 with very strong intensity to north and pinkish shade at bottom of streamers.		
						Some aurora though less well defined, all night.		







Wed, April 22 : Removed old clock work, installed & synchronous motor drive

Date Julian Day

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp.	Instrument	Observation 1900	REMARKS	Object	Plate No.	
7:43 2	0 44 W	46 20	0	5.76	G <sub>0</sub> 2,2,2	Apr. 22	C.T. 12	Δθ M.T.A. -06.8	Δθ S.T.A. -01.3	Δθ M.T.D. -07.8	Δθ WATCH +31.7
10:49 3	1 10 W	30 48	0-1	7.44	F <sub>2</sub> 2,2,2			} without control clock			
<del>10:25 1</del>	<del>0 18 W</del>	<del>29 59</del>	<del>0-1</del>	<del>7.11</del>	<del>A<sub>0</sub> 2,3,2</del>		<del>slide not shown?</del>				
1 21 2	0 48 E	42 46	0-1	5.6	B <sub>9</sub> 2,2,2						
2 45 3	0 22 W	12 58	1-4 var.	7.04	A <sub>3</sub> 2,2,2				} with " "		
4 21 1	2 15 W	42 46	3	5.6	B <sub>9</sub> 4,2,4						
4 53 4	2 46 W	"	5	"	" 2,2,2						
						Guiding slightly more satisfactory with control, - drifts too slowly without it.					
						Advanced 1 min. Apr. 23 12 -06.9 -01.0 -07.9 -07.0					







Julian Day \_\_\_\_\_ Date \_\_\_\_\_

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp.	REMARKS
10 55 1	0 37 W	+ 28 54	0-1	6.74	F2 2-2-2	Cloudy afternoon and early evening. Clouds 9 <sup>10</sup> -9 <sup>25</sup>
12 30 2	1 26 W	+ 46 33	1-2	7.22	K0 2-2-2	
1 55 3	0 07 E	+ 42 46	1-2	5.6	B8 4-4-4	Stages?
3 06 4	1 00 E	+ 45 30	1-3	6.20	B9 2-2-2	
4 46 1	0 58 E	- 02 14	2-4	6.8 m	B8 2-2-2	
						Moderately bright aurora most of night. Some T=30°
						Apr. 24 12 -07.0 -00.8 -08.0 +03.6



Date Friday - April 24-25 1936 M-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
F <sub>1</sub> 773					Astra	.011	+5.5			
774	H.D. 91636	10 29.8	+9 10	I-25	E-33	.008	+5.5	7 50	10 20 3	
775	12626 <sup>9</sup> <sub>6</sub>	14 19.4	16 44	-	Astra	.011	+5.2	10 26	11 56 2	
776	134305	15 04.0	12 52	-	-	-	+4.8	11 58	1 18 4	
777	142926	15 52.2	42 51	-	E 40	-	+5.0	1 23	2 25 3	
Sat - April 25 - 26, 1936 Ad										
60 visitors. Showed telescope, etc.										



Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp.	REMARKS
					15 8	after focus O.K. inner.
1 43 W	8 58	1-2	5.7	A0	8-6-8	
0 31 E	16 34	2	7.19	<sup>55</sup> / <sub>40</sub>	2-2-2	
0 07 W	12 44	4	7.24	A3	2-2-2	clouding up a bit at 1.00.
0 26 W	42 46	3	5.6	B8	4-3-4	hazy at 1.40 quite dark at 2.25
						remains cloudy
						clear up 3.15 a.m.







Fading Time  
L.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp.	REMARKS
1 36 W	30 04	0-1	7.65 K <sub>0</sub>	2-2-2	
1 20 W	15 55	1-2	7.51 K <sub>0</sub>	2-2-2	
4 <sup>m</sup> W	29 29	1	7.53 F <sub>5</sub>	2-2-2	
28 <sup>m</sup> W	42 46	1	5.6 B <sub>8</sub>	4-4-4	
1 18 W	36 40	1-2	6.94 F <sub>0</sub>	2-2-2	Last 2 plates are in holder in drawer
1 10 W	+2 48	1-3	6.15 G <sub>0p</sub>	2-2-2	
					Watch
					April 27 12 -05.8 +00.5 -06.8 +07.5
					April 28 12 -05.8 +01.1 -06.8 +17.1
					April 29 12 -05.9 +01.5 -06.9 +26.0
					April 30 12 -06.0 +02.1 -07.0 +34.3
					May 1 12 -06.0 +03.9 -07.0 +43.4



Date Friday May 1-2, 1936 M-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.	Exposure Time
783 F <sub>1</sub>				2-25	Astra	.011	+17.2			1
784	HD 91636	10 29.8	+9 10	-	-	-	+17.2	8.00	10.10	2
<del>Sat May 2-3, 1936 Ad</del>										
<del>35 visitors. Showed telescope (over)</del>										



Ending Time L.S.D.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp.	REMARKS
					17 8	Something wrong with eye, making faintly up above of the object, magnitude not set enough. Something lit double and resolution not, no sign of it.
2 00 W	9 50		0	5.7	A0 2-2-2-2	See setting and guiding light clouds at 8.33, crosshair also 2.5 much less all guiding crosshair. seeing, 1.5 mag. ft.
						Clouds coming up and haze much thicker at 10.45 etc. inside.
						Cloud up 10.45.
						plate in plate holder
						May 2 10 -06.1 +03.5 -07.1 +48.7







35 visitors - showed telescope 18

Ending Time  
E.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp.	REMARKS
E 22m	4247	0	5.6	B <sub>3</sub> 2,2,2	many clouds. Thick at 1.00, danger of rain. Clouds.
					has setting motion down & work at all at high dec. Managed to set only by L holding clutch.
					didn't find black box. 750 - color #1 in drawer.
					Advanced 1 <sup>m</sup>
					May 4 13 -06.1 +05.3 -07.1 +05.8















Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp.	REMARKS
	Focus at	23.53			14 8	Test showed perfect focus at 4850 and 4000. Best to try at 4400. Accident to hit it two plates in developing.
5:07	0 06E	28 10	2	5.90 A3	2-2-2	Set focus to 23.50
5:08	1 39W	23 41	3	6.45 A2	2-2-2	Some light cloud 9.35-1000
5:08	0 11W	59 48	2	7.32 A2	2-2-2	" " " 1100 - getting quite heavy by 11.15
5:11	0 7W	42 48	2	5.6 B8	2-2-2	
5:11	0 20W	-9 12	2	7.47 B2	2-2-2	Light haze and clouds at times.
						quite hazy at times.
	3h	+61°	3h	E	6 sec	May 6 12 -06.8 +05.8 -07.8 +24.0
	"	+61°	3h	W	8 "	10h previous normal position
	"	+61°	3h	W	6 "	" " inside
	"	+61°	3h	E	6 "	" " normal position
	"	+61°	5h	E	6 "	" " " "
	"	+61°	0	-	6 "	" " inside
	"	+61°	0	-	6 "	" " " "
	"	+61°	3h	W	6 "	" " normal position



\* See notes at back of book on these three tests.

Date Thursday, May 7-8, 1936 H-6 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
789 F3	<i>Tricus</i>			I-25	<i>astro II</i>	010	24.0	: 7 <sup>45</sup> pm		4
<del>(790)</del>	<del>HD. 99354</del>	<del>11 13.7</del>	<del>+14 49</del>	"	"	"				
790	HD. 79554	09 09.7	+15 22	"	"	"	24.3	8 14	9 29	2
790 F1	<i>Tricus</i>									1
791	106 022	12 06.9	+29 06	"	"	"	24.2	9 37	11 57	3
792	142 926	15 52.2	+42 51	"	"	"	24.2	0 06	36	1
793	183 794	19 26.1	-02 19	"	"	"	24.0	1 43	4 13	4
				<i>Friday</i>	<i>morning M</i>					
* 793 F <sub>1</sub>				I 25	<i>astro</i>	011	20.5	<i>plate setting</i>	7.5	1
				-	-	-	-	"	2.5	0-
* 793 F <sub>2</sub>				-	-	-	-	<i>plate setting</i>	7.5	3
				-	-	-	-	"	2.5	0-
* 793 F <sub>3</sub>				-	-	-	-	"	7.5	4
				-	-	-	-	"	2.5	0-
				-	-	-	20.5	"	0.5	0-



Ending Time LAT	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp.	REMARKS
	From 23.50				15.9	Stage.
				7.21 G0		Minor figure <u>very</u> <u>very</u> bad. <sup>(double)</sup> star not resolved
		15 14	1	6.57 K0	2-2-2	Stage.
	From 23.45			6.7	15-10	Developed 790. Very weak. <sup>measured</sup> longest 250
11.5	2 33W	27 55	1-2	6.74 F2	2-2-2	Developed 791
8	0 RFW	42 46	1-2-3	5.56 B3	2-2-2	Stage.
4.15	0 RTE = 2 13		3-5	6.8 B8	2-2-2	
						See setting table; magnet too weak to work in against spring + gravity. Disconnected one end of spring from plate 791 on. In position shown in was no further work. Apparently, clutch left will eventually need to be counterpoised.
7.5	0 -	+ 50°	outside		6	
		+ 70°	inside		6	
2	0 -	+ 65°	inside		6	
		+ 55°	outside		6	
	0 -	+ 45°	outside		6	
		+ 15°	inside		6	
	0 -	+ 75°	inside		6	
		+ 55°	outside		6	
	2h E	+ 60°	outside		6	
	2h W		inside		6	
	1h W		inside		6	
	1h E	+ 60°	outside		6	
	30m E W	+ 60°	outside		6	
						May 8 12 -07.3 +08.5 -08.3 38.2 min hand M.T.A. advances once later than before.







Ending Time L.S.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp.	REMARKS
9 03	W 47 <sup>m</sup>	23 42	5	6.45	A <sub>2</sub> 2,2,2	
9 52	E 3 <sup>h</sup> 12	42 47	3	5.6	B <sub>8</sub> 2,2,2	
11 30	W 26 <sup>m</sup>	29 00	2	7.11	A <sub>0</sub> 2,2,2	Light clouds.
1.18	E 1 <sup>m</sup>	36 39	1-3	6.86	K <sub>5</sub> 2,2,2	Clouds + haze. Take mid-exposure. 12.26
2 03	E 27 <sup>m</sup>	40 03	4	6.22	F <sub>8</sub> 2,2,2	Some clouds.
2 43	W 1 <sup>h</sup> 40	42 47	3	5.6	B <sub>8</sub> 2,2,2	" "
4 17	E 20 <sup>m</sup>	-02 12	2	7	B <sub>8</sub> 2,2,2	
						Radio signals <u>very</u> weak.
						May 9 12 -08.8 +08.2 -09.8 +43.0















Ending Time  
E.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp.	REMARKS
11 <sup>m</sup> W	29 30	1	7.53	FS	2-2-2	Thunder storm heavy rain in early evening
-	42 51	0-1	5.6	B8	2-2-	clouds at 1.05 - Thunder storm coming up.
						Advanced water 1m
						May 12 12 -09.2 +10.5 -10.2 +07.5 signal faint - static.
						13 16 -08.9? +12.0 - +17.0











Date Thursday 7/1 May 1915 H-6 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
807 FL	<del>HD 98354</del>			2-25	E 40	010	9.0	3 <sup>00</sup> pm		1
808	HD 98354	11 13.7	+14 49	"	astr II	"	12.8 <small>set 12.5</small>	8 15	10 15	1
809	142926	15 52.2	+42 51	"	"	"	12.8	10 22	11 12	2
810	134223	15 04.1	+13 37	"	"	"	12.7	11 16	0 46	3
811	142926	15 52.2	+42 51	"	"	"	12.6	0 54	1 35	4
812	183794	19 26.1	-02 19	"	"	"	12.5	1 46	4 12	1
<del>813</del>	<del>142926</del>	<del>15 52.2</del>	<del>+42 51</del>							



















1936

Date Tuesday, May 19-20 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
	3 Serpentes	<sup>1936</sup> 15 11.9	+ 05 11							
819	NGC 5904	<sup>1900</sup> 15 13.5	+ 06 27	Newtonian	E 40			12 28	12 35	0 50
820	6402	17 32.4	- 03 11		"			0 49	0 59	1 02
821	6402	"	"	"	"			1 41	1 29	0 30E
822	6254	16 51.9	- 03 57					2 01	2 11	0 51W
823	6779	15 12.7	+ 32 00					2 24	2 44	0 51E
824	6402	17 32.4	- 03 11					2 54	3 04	1 04
	<del>6934</del>	<del>20 22.3</del>	<del>+ 07 24</del>							





41

Date *Wednesday May 20-21, 1936 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
825	NGC 5272	13 37.6	+ 23 53	<i>Newtonian</i>	E 40			9 00	9 10	0 51.6
<del>826</del>	<del>5904</del>	<del>15 13.5</del>	<del>+ 02 27</del>							
826	6205	16 37.1	+ 36 39					9 27	9 30	0 33.2
827	5024	15 08.0	+ 18 42					9 47	10 07	0 34W
828	5904	15 13.5	+ R 27					10 25	10 35	1 04E
829	"	"	"					10 39	10 49	1 05E
830	"	"	"					10 52	11 02	1 05E
831	"	"	"					11 04	11 12	0 8.2
832	6205	16 37.1	+ 36 39					11 50	12 00	0 34
833	6341	17 14.1	+ 43 15					12 09	12 19	0 33
834	"	"	"					12 22	12 32	1 07E
835	6254	16 51.9	- 03 57					12 42	12 52	
836	6402	17 32.4	- 03 11					1 08	1 28	1 00E
837	"	"	"					1 31	1 46	0 12E
838	5904	15 13.5	+ 02 27					1 54	2 04	1 21.9



Exposure Time  
L.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp.	Focus 62.75	REMARKS
0 53 E		Poor				Minor figure better than previous night. Plateholder cannot be reached at $2^{20}$ E, $5+2$
3 33 E		3 in				2 hours fortably - few East. <u>not</u> guided.
0 34 W						Developed 825, 826 - Search of good guide stars.
1 04 E						
0 50 E						
0 37 E						
0 26 E						Exposure stopped because of erratic P.A. variation.
						2.5/4 hour gear appears to have been worn too much. <sup>Very fine</sup> appears to guide.
1 03 W						Poor guide stars.
1 20 E						good guide stars.
1 07 E						
						Stars run off again badly.
1 29 E						Developed 5 plates (827-311)
0 12 E						
2 26 W						

43

1936

Date

Wednesday, May 20-21 (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	
839	NGC 6779	19 12.7	+ 30 00	Newtonian	E 40			2 14	2 34		
840	6402	17 32.4	- 3 11					2 45	3 05		
841	6734	20 29.3	+ 07 04					3 14	3 29		
				Thursday, May 21-22, 1936			M-Hd				
							Y-M - changed to				
841 F				I-12	Astro	.010	9°	9	4		
								5			
								1			



Ending Time LST.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp.	REMARKS
2:34	1 03 E					
2:49	1 12 W					
2:59	1 25 W					
<p>May 21 12 -10.8 +13.6 -10.8 +19.9</p>						
<p>Take off Newtonian wts for Newtonian 3 on triangle, 1 south of 2 weight  wts for Cassegrain, 2 next polar axis, 1 above pole</p>						
1-	12-inch camera			focus on 25-inch	- 23.33	
				tilt on 25-inch	- 23.00	
	set 12-inch camera to tilt			focus	26.23	
	base of prism outside	slit length	L	12	sec	
	top " inside	" "	"	8	"	
	whole prism	slit "	M	6	"	
	" "	" "	S	6	"	
<p>comparisons, one through for  all slit lengths - focus O.K.</p>						

45

1936

Date Thursday - May 21-22 <sup>M-L</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 End
841 F <sub>2</sub>				L-12	E 40	.010	+13.2	atting	5	4	
841 F <sub>3</sub>				-	-	-	+13.8		9	4	
- 842	HD 91636	15 29.8	+9° 10'	-	E 33	.010 <sub>L</sub>	+13.8	8 36	9 16	3	
843	142926	15 52.2	+42° 51'	-	E 40	- <sub>L</sub>	+13.8	9 21	9 39	1	
844	142926	15 52.2	+42 51	-	-	- <sub>L</sub>	+13.7	9 39	9 58	2	
- 845	BD 472134	14 17.3	+47 33	-	Astrod	.025 <sub>M</sub>	+13.7	10 16	1 16	3	
- 846	HD 169733	17 21.1	-09 15	-	-	.015 <sub>M</sub>	+13.8	1 30	2 50	1	
- 847	HD 183794	19 26.1	-02 19	-	-	.010 <sub>L</sub>	+13.0	3 04	3 44	1	
848	HD 166014	18 03.6	+28 45	-	E 33	.015 <sub>L</sub>	+13.1	3 49	4 05		



Ending Time  
E.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp.	REMARKS
Prism base outside				6	focus a little long set focus 26.20
" top inside				6	
whole prism	edged prism			10	
top outside				8	
" top inside				6	
9:03 2 <sup>h</sup> 25 <sup>m</sup> W	9 01	2-3	5.7 A0	2-4-2	
9:01 2 34 E	42 48	4	5.6 B8	2-2-2	
9:09 2 15 E	42 48	3	5.6 B8	2-2-2	
2 31 W	47 24	3	9.0 -	2-2-2	focus a little long
0 09 W	-09 11	3	7.47 B2	2-2-2	focus a little long
0 03 E	-2 13	3	6.8 B7	2-2-2	
1 42 W	+48 47	2	3.83 A0	2-4-2	focus a little long
					May 12 -10.3 +13.9 -10.3 +27.7























Ending Time  
EST.

Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp.	REMARKS
From	26.20				14, 9	outside the base. Too long.
2 01 W	14 11	2	7.21	G0	2-2-2	3rd star; moderately resolved 26.14 From base
1 26 W	46 35	3-2	7.22	K0	2-2-2	long way with
X 1 03 E	42 48	3-4-2	5.6	B9	2-2-2	
1 36 E	31 38	2	6.8	B5	2-2-2	single star
1 46 N	44 46	2-3	7.18	A2	2-2-2	
1 47 E	-02 11	2-1	6.8	B8	2-2-2	
0 11 W	+51 22	2-1	7.12	A2	2-2-2	
3 11 W	42 48	2-3	5.6	B9	2-2-2	
			6.8	B9		clouds at 3.20
						cloud 3.45
						Advanced
						May 26 13 -09.3 +15.3 -09.3 -04.2
						14.10. outside the base.
						May 27 12 -09.7 +15.2 -09.7 +03.0











Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp.	REMARKS
				15, 10	(due to temperature) (out of focus) Set focus out from 26.15 to 26.20 A. OK at 26.20 base
2 22W	+23 42	1	6.45	A2	1/2 1/2 1/2
2 27W	+44 30	1	6.76	F5	1/2 1/2 1/2 S. Transmitt. light clouds 9 <sup>35</sup> ov. Very thin 10 <sup>35</sup> -11 <sup>35</sup>
0 12E	+42 48	1	5.6	B9	1/2 1/2 1/2
0 17W	+30 41	1-2	6.94	F0	1/2 1/2 1/2
0 16W	+40 06	1-2	6.22	F8	1/2 1/2 1/2
0 29E	-02 12	2	6.8	B9	1/2 1/2 1/2 Haze 14 <sup>55</sup> , 55 - transit Transmitt. with dec. guiding - checked slipping (not end of run). OK.
1 49W	+51 21	2	7.32	K2	1/2 1/2 1/2 Clouds in transit.
					C.T. ΔθM.T.A. ΔθS.T.A. ΔθM.T.D. Δθ watch
					May 29 12 -09.8 +15.2 -08.8 +19.4
					May 30 10 -09.8 +16.1 -08.8 +18.7





Ending Time  
E.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp.	REMARKS
					59 visitors (60 reservations; who didn't come?)
					reversed telescope and showed the moon
					Intermittent clouds during whole period
					set on H.D. 142926 but too thick to
					start exposure at 10.30
					Remained thick
					Closed 12.30
					Left Astra plate loaded in
					photograph.
					June 1 12 - 10.1 + 16.5 - 09.1 + 34.5
					2 12 - 10.7 + 16.4 - 09.7 + 43.5

61

1936

Date Wednesday June 3-4 M-E 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
			<i>focus set at 26.16</i>							
881 F <sub>1</sub>				T-12	Astra	10	+17.2			4
-882	HD. 91636	10 29.8	+9 10	-	-	-	+17.2	8 42	9 16	3 36
-883	96528	11 02.3	+23 52	-	-	-	+17.2	9 20	10 00	2 37
884	142926	13 52.2	42 51	-	-	-	+17.4	10 05	10 25	4 00
-885	145749	16 08.1	36 41	-	-	-	+17.2	10 33	11 33	1 00
-886	169753	18 21.1	-9 15	-	-	-	+17.4	11 40	1 40	2 00
-887	187949	19 41.5	-19 51	-	-	-	+17.3	1 44	2 44	3 03
-888	183774	19 26.1	-2 19	-	-	-	+17.2	2 48	3 48	4 10



Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp.	REMARKS
					G.T.    Δθ M.T.A.    Δθ S.T.A.    Δθ M.T.D.    Δθ watch June 3    13    -11.1    +16.6    -10.1    +41.8
	<i>base outside</i>			10 7	
3 16W	9 02	1	5.7	A0 1 1/2 1/2	
3 27W	23 43	1	6.45	A2 1 1/2 1/2	
0 57E	42 48	1	5.6	B8 1 1/2 1/2	
0 04E	36 38	1-0	6.86	K- 1/2 1/2 1/2	
0 11E	-9 11	1	7.47	B- 1 1/2 1/2	6 sec with tube
0 33E	-14 41	1	6.4	A- 1 1/2 1/2	6 sec with tube
0 53W	-2 11	1	6.8	B8 1 1/2 1/2	

1936

Date Thursday June 4-5-1936 Julian Day

Plate No.	Object	R.A. 1000	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
- 889	HD 96528	11 02.3	23 52	I-12	Astria	0 10	+17.1	8.38	9 13	1
889 F	Focus			"	E 40	"	"			2
890	HD 141930	15 46.6	44 49	"	Astria	"	17.1	9.22	10 58	3
- 891	" 157482	17 18.4	40 55	"	"	"	17.1	11 04	11 24	4
892	* 155092	17 04.4	25 23	"	"	"	17.0	11 34	12 34	1
893	" 142926	15 52.2	42 51	"	"	"	17.0	12 39	1 00	2
- 894*	" 169028	18 17.6	51 18	"	"	"	17.0	1.10	2 00	3
- 895	" 170474	15 24.5	-2 03	"	"	"	17.0	2.08	2 38	4
- 896	" 183794	19 26.1	-02 19	"	"	"	17.0	2.43	3 31	1
897	" 190603	20 00.7	31 56	"	"	"	17.0	3 35	3 53	2

\* must be wrong star (see June 13-14)

① Identified as

HD 135041 17 04.1 +29 17 - K2

1938 Dec. 19.



Ending Time LST	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp.	REMARKS
9:15	W 244	23 43	2	6.45	A <sub>2</sub> 1/2, 1/2, 1/2	outside: base (70mm as on June 3-4)
9:45	E 15 <sup>m</sup>	44 45	2-4	7.57	A <sub>0</sub> 1/2, 1/2, 1/2	
10:15	E 19	40 05	3-4	6.22	F <sub>8</sub> 1/2, 1/2, 1/2	
10:45	W 5 <sup>m</sup>	29 17	4	7.33	F <sub>2</sub> 1/2, 1/2, 1/2	
11:15	W 143	42 49	3	5.6	B <sub>8</sub> 1/2, 1/2, 1/2	
11:30	W 16 <sup>m</sup>	51 20	3-4	7.32	K <sub>2</sub> 1/2, 1/2, 1/2	mistake in R.A.? 3 inches read 18 <sup>h</sup> 19.6. Check
11:45	W 47 <sup>m</sup>	-2 01	4	6.44	K <sub>0</sub> 1/2, 1/2, 1/2	
12:15	W 39 <sup>m</sup>	-2 11	3	6.8	B <sub>8</sub> 1/2, 1/2, 1/2	
12:45	W 28 <sup>m</sup>	32 05	5	5.45	B <sub>0</sub> 1/2, 1/2, 1/2	Telescope appears changing during night.
						Advanced 1 minute
	June 6	12	-10.4	+15.1	-09.4	+04.1





Ending Time L.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp.
		<i>base outside</i>			10 7
9 10	2 48 W	23 43	3-1	6.45	A2 1/2, 1/2, 1/2
1 30	1 32 E	42 48	2	5.6	B8 1/2, 1/2, 1/2
1 36	0 53 E	36 39	3	6.86	K5 1/2, 1/2, 1/2
2 2	1 28 E	40 06	3	6.22	F8 1/2, 1/2, 1/2
2 40	1 03 E	2 49	3	6.15	Gop 1/2, 1/2, 1/2
2 52	0 50 E	41 59	3	6.70	F0 1/2, 1/2, 1/2
2 58	0 20 W	10 53	4	8.1	A0 1/2, 1/2, 1/2
3 00	0 12 W	-2 12	3	6.8	B8 1/2, 1/2, 1/2
3 01	0 42 W	-14 43	3	6.4	A2 1/2, 1/2, 1/2

*Large clouds in west of galaxy.*

	C.T.	ΔθM.T.A.	ΔθS.T.A.	ΔθM.T.D.	Δθwatch
<i>June 6</i>	14	-12.1	+17.8	-11.1	+15.4
	8	-13.6	+18.2	-14.0	-03.6





Ending Time L.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp.	REMARKS
2							
5p 1	10 <sup>m</sup> E	19 34	2 <sup>thick</sup>	1.24	K0	H	
45 3	33 <sup>m</sup> E	56 58	1	686	K5	1/2 1/2 1/2	
24 4		42 39	2	745	K2	1/2 1/2 1/2	
1 20 2	2 19 W	42 47	2	5.6	B8	1 1/2 1 1/2 1/2	Set focus at Beg of the star at 26 20
2 57 1	21 <sup>m</sup> W	42 12	2	68	B8	1 1/2 1 1/2 1/2	
11 5	1 <sup>m</sup> W	45 51	2	7.12	B5	1 1/2 1 1/2	repeated exposures of field on the same
							I think the secondary could be cleaned to advantage. <u>RLH</u>
							outside box
						15 8	June 9 15 -13.2 +19.1 -20.2 -22.9
						15 8	M.T.D. not running
						15 8	correctly - seconds lag.
						15 8	





Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp.
	bare outside		15 10	
3 31 W	23 42	1	6.45 Ar	1 1/2 1 1/2
0 47 E	42 48	2	5.6 B8	1 1/2 1 1/2
0 10 W	36 38	2	6.86 R5	1 1/2 1 1/2
0 51 W	-9 11	2	7.47 B2	1 1/2 1 1/2
1.00 W	+13 43	2	5.8 B3	5-1 1/2 5

focus about right 4200 - 4500. little long in this range.  
quite hazy.

hazy much thicker

Approximate corrections:

	C.T.	Δθ M.T. watch	Δθ S.T.A.	Δθ M.T.D.
June 10	14.	-19.8	+18.2	-21.0

Δθ S.T. watch

-19.6

June 11. 10 00 AM. Seconds wheel of master clock oiled.

	C.T.	Δθ M.T.A.	Δθ S.T.A.	Δθ M.T.D.	Δθ watch
	12	+28.9	+21.7	-20.1	+10.1











Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp.
		base outside			$\frac{17}{8}$
9:57	4 00W	23 43	1	6.45	A3 $1\frac{1}{2}, 1\frac{1}{2}, 1\frac{1}{2}$
10:16	0 14W	36 38	1	6.86	K5 $1\frac{1}{2}, 1\frac{1}{2}, 1\frac{1}{2}$
10:44	0 49W	-9 10	1	7.47	B2 1, 1, 1
11:23	0 47W	-14 42	1-0	6.45	A2 $1\frac{1}{2}, 1\frac{1}{2}, 1\frac{1}{2}$

focus good!

driving fairly, jumpy off marked down gear with red line

a lot of South's Guide #3-205

take end of observation 3.13.

6.45 9.11 9.12

a lot more trouble guiding on that plate <sup>922</sup> seems to be the solution though south's quarter and west of meridian. Base of foot but the west by amount similar to 4.25 be with R.A. setting on the roughly similar with a period of 1/2 minute. Some for 5 vibrations. It is possible to get

1936

Date Sat June 13-14 Ad-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
922F	Torus			I-12	Astera	910	25.0			4
923	4D 145891	16 08.3	13 04	"	"	"	25.0	10 25	11 25	2
923F				"	"	"	25.0			3
- 924	H.D. 157482	17 18.4	40 05	"	"	"	25.0	11 35	12 10	4
- 925	" 169028	18 17.6	51 18	"	"	"	25.1	12 18	01 20	3
926	" 163966	17 53.8	45 01	"	"	"	25.1	01 26	01 26	4
927	" 182239	19 18.6	14 44	"	"	"	24.9	02 34	03 30	3



32 U variables - Showed E Poo, 113.

76

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp.	REMARKS
						June 13    CT    Δθ M.T.A    Δθ S.T.A.    Δθ M.T.D.    Δθ water 12           +28.9           +20.5           -19.1           +01.7
		have outside			12 7	Focus 26.17
11 25	0 26W	12 59	1	7.04	A <sub>3</sub> 1/2, 1/2, 1/2	
		have outside			12 7	
12 04	0 02W	40 04	1-2	6.22	F8 1/2, 1/2, 1/2	Focus OK on P4 #3, from out #1
11 30	0 13W	12 22	3	7.32	K <sub>2</sub> 1/2, 1/2, 1/2	Circle check (see June 4-5)
12 11	1 45W	45 02	1-3	6.81	B9 1/2, 1/2, 1/2	When first set on this star it drifted back and forth
12 12	1 21W	14 50	3	6.64	H <sub>3</sub> 1/2, 1/2, 1/2	across slit at the rate of the whole width of guiding telescopes field in one second. Note: taking W of meridian and at +45 Something with 727 - managed to guide by holding against spectrograph to take up slack.
						June 15    12           +28.8           +21.6           -16.4           +11.8













1936

Date Thursday June 18-19, Y-MR-L <sup>(144)</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.	Photo	Hour Angle End
933 F <sub>3</sub>	Focus Test			I-12	E-40	Set 010	Set 21.8	8.45		1	
- 934	H.D. 145149	16 05.1	36 41	"	Astra	"	22.5	8 56	9.56	2	0.36 E
- 935	H.D. 157482	17 18.4	40 05	"	Astra	"	22.2	10 01	10.35	3	1.15 E
936	H.D. 164509 <sup>05</sup>	17 54.3	45 53	"	Astra	"	21.8	10 40	12.01	4	1.22 E
- 937	H.D. 169028	18 17.6	51 18	"	Astra	"	22.2	12 10	1.30	2	0.17 E
- 938	H.D. 319800 Small field in north	20 00.0	50 21	"	Astra	"		3 23	3 23	3	
939				"	Astrq	"		3 34	3 38	4	
- 940	Focus Test(?)				Astra	"	22.2	3.44 37	3.48 37	2	
Note <sup>(1935)</sup> T <sub>n</sub>	(Later called Nova Lac)		1936 22 13.2					3.48 50	3.51 50		
			1936 55 20.					3.52 40	3.54 20		
- 941					Astra	"	22.2	3.55 05	3.56 25	3	0.36 E
		RA Observed						3.57	4 02		
- 942		22 13.1			E 40			4.03	4.05	4	



Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp.	REMARKS
		been outside			15.8	Focus 26.15 O.K.
12:02	0 43 E	36 38	2	6.86 K5	1 1/2 1 1/2 1 1/2	very brilliant aurora! 10.05 P.M.
0.55	1 15 E	40 04	"	6.22 F8	1 1/2 1 1/2 1 1/2	Dr. Young left about 10.05.
12:01	0 23 E	45 54	"	7.2 F5	1 1/2 1 1/2 1 1/2	mirror fogged up; dried, and then dusted and
1:00	0 17 E	51 22	"	7.3 K <sub>0</sub>	1 1/2 1 1/2 1 1/2	cleaned it with cotton-wood and sponge, before
		56 33		5.92 F8	4 1/2	opening
		"			4 1/2	
1:15		55 20			4 1/2	received collect telegram about 1.35 by telephone:
2:00	Hour Angle	"			4 1/2	"Cambridge, Mass. Peltier reports third magnitude
3:00	at 4.06	"			4 1/2	near 2° south preceding delta Cephei". Moved telescopes
4:00	was	"			4 1/2	in that region but were unable to locate it. Summoned
5:00	0.36 E	"			4 1/2	Dr. Heard by telephone. Finally found a likely looking
		"			8	object & took these plates.
						Estimated mag = 3.3 - H. H. B.
						aurora very brilliant all night

83

Date *Friday 1936 June 19*

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
<i>Focus 942 F1</i>				<i>I 12</i>	<i>E 40</i>	<i>0 10</i>	<i>18.5</i>	<i>10 AM</i>		<i>1</i>
<i>942 F2</i>				<i>"</i>	<i>M Pan</i>	<i>"</i>	<i>"</i>	<i>"</i>		<i>2</i>
<i>942 F3</i>				<i>"</i>	<i>"</i>	<i>"</i>		<i>11 "</i>		<i>1</i>
<i>942 F4</i>				<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	<i>12</i>		<i>3</i>
<i>942 F5</i>	<i>Focus</i>			<i>"</i>	<i>"</i>	<i>"</i>	<i>24.5</i>	<i>9 P.M.</i>		<i>3</i>





1936

Date Friday June 19-20 - M-HdL Julian Day

Plate No.	Object	R.A. 1900 1436	Declination 1900 1436	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Flat 1/6.12	Hour Angle End
- 943	Jova Cr.	22 132	155 20	I 12	astron	.005		10 12	Exp 12s	1	
- 944	"			-	astron	.005		10 13	Exp 20s	2	
- 945	"			-	Met P.	.005		10 18	Exp 10s	3	
- 946	"			-	Met P.	.005	23.8	10 19	Exp 20s	4	
- 947	"			-	Process	.005		11 06	11 08	1	
- 948	"			-	Process	.005		11 11	11 15	2	
- 949	"			-	Process	.005		11 17	11 37	3	
- 950	"			-	Met P.	.008		11 42	Exp 40s	1	
- 951	"			-	Met P.	.008	24.0	11 43	11 45	2	
- 952	"			-	Process	.008		11 50	12 05	4	
- 953	"			-	Met P.	.008		12 15	Exp 40s	1	
	"			-				12 16	Exp 40s	"	
	"			-				12 19	Exp 80s	"	
- 954	"			-	Met P.	.008		12 20	Exp 60s	2	
- 955	"			-	Met P.	.008		12 28	Exp 20s	1	
	"			-				12 30	Exp 30s		



Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp.	REMARKS
	55 20	1		8	at 30 <sup>3</sup> Stars 1 <sup>m</sup> two wk.
Hour Angle	"			8	" " " " two wk.
At 10.22	"			5	" " " " two wk.
Was 6.16E	"			5	" " " " two wk.
				15	
				20	
Hour Angle	"			10-10 filter out	spots 7 1/2 <sup>m</sup> Stars 5 <sup>m</sup> G L
At 11.53	"			6	" 20 <sup>S</sup> " 1 <sup>m</sup> S S
Was 4.45 E	"			8	" 20 <sup>S</sup> " 1 <sup>m</sup> S S
				10-10 filter out	spots 7 1/2 <sup>m</sup> <del>stars</del> V S
				8 (filter out)	setting 3 S
				4	setting 7
				8	" 10
Hour Angle	"			8	setting 10 after 20 sec stars 15 <sup>m</sup> S
At 12.24	"			8	setting 3 after 20 sec S
Was 4.15 E	"			8	setting 7 S

87

1936

Date Friday June 19-20 M.Hd-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
955F <sub>1</sub>	Nova Cephei			I-25	Astra	.008	23.9	1 15			
- 956	"			-	Astra	.008		1 27	Exp 2m	1	
	"			-				1.31	Exp 4m		
- 957	"			-	Astra	.008		1.36	Exp 2m	2	
- 958	"			-	E-33	.008		1.42	1.47	3	
								1.50	2.00		
- 959				-	Process	.008	24.0	2.06	2.26	4	
				"				2.26	2.36		
960	"			-	Astra	"		2.39	Exp 1m	1	
	"			-				2.40	Exp 1/2m		
961	"			-	m Pan	"		2.43	Exp 1m	2	
	"			-				2.46	Exp 2m		
	"			-				2.49	Exp 4m		
962	"			-	Process	.011	24.0	2.58	3.28	1	
- 963					Astra	.008		3.30	Exp 30s	2	
								3.34	" 30s		



I-12 focus was 26.15 88  
 tilt 19.2

Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp.	REMARKS
				$\frac{25}{17}$	Changed to I-25 at focus 23.33
				15	setting 3 spots 20a tilt 23.00
				15	setting 7
				15	setting 10 spots 30a tilt 30a S
				15-15	setting 3 spots 90a S
				15-15 fitting out	setting 7
				5.5, 5 fitting out	setting 13 spots 7 1/2 m S
				2, 3	" 7
				12	setting 3 spots 30a G v
				12	" 7 G v
				12	setting 0 spots 20a G v
Hour Angle At 3.04				12	setting 5 G v
Was 1.30E				12	" 10
				12	Long slit no comparison spots 7 1/2 m
				12	setting 3 spots 30a V
				12	setting 7







1936

Date Sept. June 20-21 M-MR-Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	
- 965	<del>Procyon</del>			I-25	E-40	.008		11-11-08	Exp. 1 min	1
	"			"		.008		11-13-50	" 2 min	
	"			"		.008	24.1	11-18-15	" 4 min	
- 966	"	obs		"	E-40	.008		11-24-57	Exp 3 min	2
- 967	"	16-13.2		"	process	.008		11-49-0	Exp 5 min	3
	"			"		.008	24.1	11-59-0	" 10 min	
- 968	"	obs 55-20		"	E 40	.008		12-25-30	8 min	1
	"			"		.008		12-35-00	16 min	
- 969	"			"	Astra	.008		12-52-45	Exp 2 m	2
	"			"		.008		12-55-35	" 4 m	
	"			"		.008	24.2	1-00-40	" 8 m	
- 970	"			"	Astra	.008		1-11-00	1.41.00	4
- 971	"			"	E-33	.008		1-41-30	1.58.30	1
- 972	"			"	Astra	.008	24.0	1-58.30	2.02.30	2



100 visitors

92

Shourd M3 - 74 min

Kova, Galata, Small Mountain

Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp.	REMARKS
at 11-30.0		0		24 <sup>sc</sup>	setting 1 1/2 spots 1 min
5-04.5 E				24	setting 5
				20	setting 8 1/2
				20	setting 10.4 spots 1 min slope 40°
				15	setting 3
				15	setting 7
				12, 12	setting 3 spots 90°
				12, 12	setting 7
				15	setting 1 1/2 spots 30°
				7, 7	setting 5
				7, 7	setting 8 1/2
				5, 5, 5	setting 3 one diff out
				20, 20	setting 5 spots 110°
				7, 7	setting 10.4 spots 90° slope 50°

1936

Date Sept June 20-21 M-MR 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
- 973	<i>Scor Cygnus</i>			I-12	Met. Pan.	.008		2-51-03	1/2 min	1
	"			"	"	.008		2-52-35	1 1/2 min	3:1
	"			"	"	.008	24.0	2-55-05	3 min	132 1/2 E
- 974	"			"	"	.008		2-59-20	1 min	2
- 975	"			"	defnd infra-red	.008		3-01-55	1 min	3
	"			"	"	.008		3-03-45	3 min	
	"			"	"	.008		3-07-25	9 min	
- 970	"			"	process	.008		3-17-15	5 min	4
	"			"	"	.008	23.8	3-23-15	10 min	
- 976	"			"	I-R	.008		3-33-30	2 min	1
- 977	"			"	E-33	.008		3-36-00	1 min	2
	"			"	"	.008		3-41-00	3 1/2 m	

see page before  
as well



set power I-12  
told

26.15

19.2

94

Ending Time L.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp.	REMARKS
3 1/2 min	H.L at				8	setting 1 1/2 spots 30 s
5 1/2 min	3.01,				8	setting 5
3 min	1-32 1/2 E				8	setting 8 1/2
2 min					8	setting 10 spots 30 s steps 15 s
1 min					10	setting 15 spots 20 s
3 min					10	setting 5
1 1/2 min					10	setting 8 1/2
5 min					7 7	setting 6 1/2
1 min					7 7	setting 10
2 min					10	setting 10
1 min					10	setting 3 went off
1 1/2 min						setting 7

95

1936

Date Sunday June 21-22 Y-L-Hd 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
977F	FOCUS TEST			I-12	E-40	set 010	Set Al 17.4			1
<del>978</del>	<del>H.D. 145849</del>	<del>16 08.1</del>	<del>36 41</del>	<del>I-12</del>	<del>Astra</del>	<del>..</del>	<del>17.6</del>	<del>8 57</del>	<del>10 17</del>	<del>3</del>
- 978	" 154732	17 02.1	48 57	"	"	..	17.5	10 20	11 40	4
- 979	Nova Cephei	<sup>1935</sup> 22 13.2	<sup>1936</sup> 55 20	"	"	008	17.5	11 53	Exp 45s	1
	"	"	"	"	"	"		11 56	Exp 90s	
	"	"	"	"	"	"		11 58	Exp 3m	
- 980	"	"	"	"	E-33	"		12 08	12 23	3
	"	"	"	"	"	"		12 31	12 38	
- 981	"	"	"	"	Astra II	..	17.5	12 50	Exp 30s	1
982	"	"	"	"	"	"		12 55	Exp 1m	2
983	"	"	"	"	"	"		1 00	Exp 2m	4
984	"	"	"	"	"	"		1 04	Exp 15s	3
984F1	Focus			I-25	Astra II	008				1
- 985	Nova Cephei	"	"	"	E-33	"		1 53	2 18	4
	"	"	"	"	"	"		2 19	2 27	



Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp.	REMARKS
	Outside Base				15.8	Focus 26.15 Alt 19.2
	013 E	<del>36-38</del>	0	6.86	K5 1/2 1/2 1/2	Slide?
	20 <sup>m</sup> W	48 56	1	7.32	K5 1/2 1/2 1/2	
			1		6	setting 1 spots 30 <sup>S</sup>
	At 1206		1		6	setting 5
	At 425 E		1		6	setting 9
			1		15-15	setting 3 spots 3 <sup>m</sup> 3x length slit
			1		10-10	setting 7
			1		4	" 10 1/2 spots 30 shape 15 <sup>S</sup> ok
			1		4	" 10 1/2 " " (OK)
			1		4	" 10 1/2 " "
	At		1		4	" 10 1/2 " "
			1	5/3	3 filters out	Focus 23.35 Alt 23.0
			1		4 - 2	setting 2 3 filters out 2x length slit (OK)
			1		3 - 3	" 8 " " " 3 <sup>m</sup>

97

1936 (cont<sup>a</sup>)Date Sun June 21-22 Y-L-4d 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
986	n bef.	<sup>1936</sup> 22 13.2	<sup>1936</sup> 95 20	I-25	E 33	008	17.5	2.32	2.44	3
								2.45	2.51	24-
								2.52	2.55	146-
987	"	"	"	"	Astra			2.58	Exp/ln	2
								3.00	3.02	
								3.04	3.08	
988	"	"	"	"	Astrat			3.24	3.27	2
								3.28	3.34	



Ending Time R.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp.	REMARKS
2:27	Angle		1		<sup>3</sup> 3-3	setting 1 spots 3 <sup>m</sup>
2:50	14 244				3-3	setting 5
3:10	14-1.46E				3-3	setting 7
3:30					<sup>6</sup> 6	setting 0 put other filter on spots 30 <sup>s</sup>
3:50					6	setting 5 (OK)
4:10					6	setting 10
4:30					6	setting 2 Long slit spots 30 <sup>s</sup>
4:50					6	setting 8 " (OK)
						40M.T.A.    40S.T.A.    S.T. watch    M.T. watch June 22    12    -04.4    +25.6    -21.4    +00.1

99

1936

Date Monday June 22-23 Y - MR 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
998 F1	Focus test			I 25	Astron II	Set. 0.10	Set. 20.0			1
994	HD 142926	15 52.4	42 51	"	"	"	20.5	9 15	9 51	2
- 990	HD 145849	16 08.1	36 41	"	"	"	20.0	9 57	10 47	3
- 991	HD 165645	18 01.9	41 56	"	"	"	19.9	10 53	11 38	4
- 992	Nova Cephei	22 13.2	55 20	"	"	0.08	20.2	11-58-25	1 min	1
	"	(1936)		"	"	"		12-00-47	12-02-47	
	"			"	"	"		12-04-23	12-0-24	
- 993	"			"	lantern	"	20.3	12 17	12 47	3
- 994	"			"	Astron II	"	20.2	12-53-10	1-13-10	2
994 F1	Focus			I 12	M. Pan	"	20.2			
- 995	Nova Cephei			"	Astron II	"	20.3	2-11-00	2 min	1
- 996	"			"	"	"	20.2	2-18-20	2-22-20	3
- 997 a	"			"	"	"		2-39	2 49	1
b								2-51	3-11	1
- 998	"			"	E 33			3-15-40	3 31	4



Estimated May at 10 PM EST as 30  
 But later 2 am. Looked near 360 40

100

Ending Time R.A.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp.	REMARKS
		Outside thru base			5/3	3/11/50, focus set 23 20 but not changed
9 51 2	17 <sup>m</sup> E		3-5	5.6 B8	2-2-2	
10 47 3	24 <sup>m</sup> W		5	6.86 K5	2-2-2	
11 38 4		41 57		6.70 F0	2-2-2	
5 1 min 1		55 20			8	setting 3 } spots 30 <sup>S</sup>
7 12-02-47					8	setting 6 } spots 30 <sup>S</sup>
3 12-0-24					8	setting 9 } spots 30 <sup>S</sup>
12 47 3	at 12-56				7, 7	setting 3 spots 30 <sup>S</sup>
0 1-13-10 2	was 3-30 E				8	setting 6 7 1/2 <sup>m</sup>
	Outside thru base				10/6	
0 2 min 1					4	Setting 10 1/2 strips 10 <sup>S</sup> spots 30 <sup>S</sup>
2 22-20 3					4	setting 10 1/2 " 10 <sup>S</sup> " 30
2 49 1					4	long slit spots .30 <sup>S</sup> setting 6 }
3 11 1					4	setting 3 }
3 31 4					16	setting 6 1/2
						C.T. 40M.T.A. 40S.T.A. H.T. <del>Correct</del> <del>to work</del>
					June 23	12 -04.8 +25.9 -19.8 +09.4

1936

Date Tuesday June 23-24 M-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
998 F.				I-12	Met P	208	+20.4	19.2		1
-999	Nova Cep	22 13.2	+55 20	-	Astra IX	208		8.59	Exp 50 s	1
								9.05	Exp 10 min	
								9.09	9.13	
*-1000!!!!!!					Astra IX			9.17	9.25	2
-1001					Astra IX			9.36	9.40	3
-1002					Astra IX			10.23	10.29	4
								10.30	10.42	
-1003					Astra IX			10.45	10.47	1
-1004					Astra IX			10.57	70 s	2
								10.59	11.02	
							+20.5°	11.03	11.13	
-1005				I-25	Astra II			1.17	1.22	1
								1.23	1.53	
2005 F.	Frostest				Astra II					2
-1006	Nova Cep				E-33			1.45	3.15	3



very difficult to extract  
 exposure owing to clouds.

Hour Angle and Declination	Seeing	Ptg. Mag.	Comp.	REMARKS
base outside	10 7			O.K
	0-0	photo	6	cutting 12
		202	6	" 5
			6	" 8 1/2
		photo 102	6	" 10
		photo 202	6	" 10
		photo 132	6	" 10
		photo 202	6	" 10
	1	photo 202	6	" 2 1/2
	1		3-3	" 7 1/2
Hour Angle		photo 82	6	" 10
11 15		photo 202	6	" 1 1/2
105 5.07E			6	" 5
			6	" 8 1/2
		photo 8-8	8-8	" 1 1/2
			8-1	" 50
base outside	22 14			set I-25
	2		4-4	by 1st

seeing 1/2  
 differential  
 reading of R.A. within 1/2 second  
 clouds one page star about  
 1/2 point

thick  
 1/2 point differential

from 23.35  
 till 23.0







105

1936

Date Wed June 24-25 Ad 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
1007 F.	Focus			I-25	Astra	010	20.7	<del>9 11</del>		1
1008 (a)	HD 142926	15 522	42 51	"	"	010	20.6	9 11	10.01	2
(b)	"						"	10 06	11 34	
1008 F	Focus			I-25		010	20.6	<del>11 46</del>		3
- 1009	HD 170474	19 245	-2 03	"	"	010	20.6	11 46	12 46	4
- 1010	n. Cep	<sup>1936</sup> 22 13.2	<sup>1936</sup> 55 20		Astra	008		mid 1 03	2 min	1
								mid 1 08	4 min	
								mid 1 15	8 min	
- 1011	n Cep				E33	008		1 31	1.55	2
								1 56	2 08	
- 1012	n Cep				Astra	008		mid 2 28	3 min	1
								mid 2 36	6 min	
- 1013	γ Cas HD 5394	50 50.7	60 11	I-25	Lantern	008	20.9	3 00	3 30	4









Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp.	Observations	REMARKS																				
							<p>changed to I-12. set focus 26.15                      tilt 19.2                      thickening of part, set on Nova                      faceted but couldn't see star in                      finder.                      remained thick.</p>																				
							<p><sup>20/15</sup> setting 1 Focus 23.35 Tilt 23.0                      setting 7 15s full length + 15s centre                      full length slit.                      " " "</p>																				
							<p>setting 2                      " 8</p>																				
							<table border="0"> <tr> <td></td> <td></td> <td></td> <td>Δθ</td> <td>Δθ</td> </tr> <tr> <td></td> <td>C.T.</td> <td>ΔO.M.T.A.</td> <td>ΔO.S.T.A.</td> <td>M.T. total</td> </tr> <tr> <td>June 27</td> <td>12</td> <td>-05.2</td> <td>+27.8</td> <td>-17.7</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td>+36.0</td> </tr> </table>				Δθ	Δθ		C.T.	ΔO.M.T.A.	ΔO.S.T.A.	M.T. total	June 27	12	-05.2	+27.8	-17.7					+36.0
			Δθ	Δθ																							
	C.T.	ΔO.M.T.A.	ΔO.S.T.A.	M.T. total																							
June 27	12	-05.2	+27.8	-17.7																							
				+36.0																							







111

1936

Date Sunday June 28-39 Y-T 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
1017	HD 142926	15 52.2	-43 51	I-25	Astra II	Set 010	20.0	8 50	9 40	3
- 1018	HD 145849	16 08.1	36 41	"	"	"	20.0	9 44	10 44	2
- * 1019	Nova Lac	1936 22 13.2	1936 55 20	"	"	008	20.0	10 58	11 02	4
								11 04	11 12	
								11 14	11 30	
- 1020	Nova Lac			"	E 33		20.2	11 31	" 49	3
1020F1	Focus last			I-12	Astra IX	"				1
- 1021	Nova Lac			I-12	Astra IX	008		12 26	12 28	1
	"							12 29	12 37	
	"							12 38	13 00	
1022	HD 187237	19 43.9	27 36	I-12	Astra II	010	20.5	1 07	2 37	2
1023	" 199098	20 44.8	44 48	"	"	"	19.9	2 45	3 35	4
Tuesday June 30										
* 1023 F <sub>1</sub>	Focus (also spots 309)			I-12	Astra II		17.0			1
1023 F <sub>2</sub>	(" " " )			"	" II		17.0			4
* developed in fine grain developer. 14 m at 19°C										



Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp.	REMARKS
4 <sup>m</sup> E	42 47	1	5.6 B8	2-2-2	Nova estimated mag. 4.7
45 <sup>m</sup> W	36 38	1	6.86 K5	2-2-2	
5 02 $\sqrt{2}$	55 20	1		8 <sup>s</sup>	Setting 1 } spots 30 <sup>s</sup>
4 52 $\sqrt{2}$		1		4-4	" 5 }
4 34 E		1		4-4	" 9 }
		1		10-10	
	Outside focus base			10/6	Focus 26.15 let 19.2
		0		6 <sup>s</sup>	Setting 1 } spots 20 <sup>s</sup>
3 26 $\sqrt{2}$		0		3-3	" 5 }
		0		3-3	" 9 }
1 02 W	27 43	0	7.53 G5	1 1/2 1 1/2	Plate holder 2 and 4 are in dark
0 55 W	44 58		6.59 K0	1 1/2 1 1/2	room with the plate box
				10/7	Dec. clutch failed, on last
Focus 26.15 let 19.2				10/7	stars. Motor runs but the
" "				10/7	clutch evidently doesn't engage
					Pushed tube down by hand.





Ending Time  
L.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp.	REMARKS
Tilt 19.2	Focus	26.10	outside base	10/7	June 29 12 ΔOM.T.A. +10.0 ΔOS.T.A. +25.7 ΔO.M.T. <sup>watol</sup> -21.0 ΔOS.T. <sup>watol</sup> +44.7
"	"	26.15	"	"	30 12 +10.2 +29.3 -17.8 -04.7
"	"	26.20	"	"	Focus bad; twisted plate barrel slightly.
"	"	26.00	"	"	
"	"	26.30	"	"	
Alt 19.4	Focus	26.27	outside base	14/8	
" 19.6	"	26.27	"	14/10	set tilt to 19.5

1936

Date Tuesday June 30 - July 1 M 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
- 1024	HD 157482	17 18.4	+40 05	I-12	Astra II	.010 <sub>L</sub>	18.8	9 29	10 09	2
1025	166014	18 03.5	+13 45	-	M.X. Pan	.010 <sub>L</sub>	18.8	10 15	10 17	4
							18.8	10 19	10 23	-
								10 26	10 34	-
- 1026	165695	18 1.9	41 56	-	Astra V	.010 <sub>L</sub>	19.1	10 47	11 47	1
- 1027	Novae Dec.	22 13.2 (1935)	55 20 (1935)	-	Astra IX	.010 <sub>L</sub>	19.0	12 00	12 04	2
								12 05	12 17	-
								12 18	12 54	-
- 1028	Novae Dec.	-	-	-	E-33	.010 <sub>L</sub>	19.1	12 55	2 25	X
1029	H.D. 209484	21 58.7	29 44	-	Astra II	.010 <sub>L</sub>	18.8	2 34	3 34	4



Ending Time L.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp.	REMARKS	
1:17	0 52 E	40 02	0	6.22	F8	1/2, 2, 1/2		
1:41		28 44	0	3.83	A0	6	setting	200 photos
2:11		-	0	-	-	6	"	5
2:41	1 13 E	-	0	-	-	3-3	"	8
3:11	0 03 W	41 57	0	6.70	F0	2-2-2		
3:41		55 20	1	(5.9)	-	8	setting	200 photos
4:11		-	-	-	-	4-4	setting	5
4:41	3 00 E	-	-	-	-	4-4	"	8
5:11	1 30 E	-	-	-	-	8-8-8		3 m photos
5:41	0 07 E	29 54	1.0	6.99	B9	2-2-2		300 photos

1936

Date Wed July 1-2 Ad 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
1029 F	Focus			I-12	West P.	010	21.5			4
- 1030	AD 145 849	16 08.9	36 41	"	Astra II	010	21.5	8 50	9.40	2
1031	" 157935	17 24.2	16 29	"	"	"	21.5	9.45	10.46	4
- 1032	" 157482	17 18.4	40 05	"	"	"	21.5	10.51	11 23	1
1033	" 167134	18 08.8	16 14	"	"	"	21.5	11.28	12.28	2
1034	" 149213	19 53.8	28 36	"	"	"	21.6	12 33	1.33	4
- 1035	N Lac	22 13.2	<sup>1936</sup> <del>20 55</del> 20	"	Astra IX	010	21.5	mid 1.48	2 1/2 min.	3
								1.51	1.56	
								1.59	2.14	
- 1036	N Lac.	"	"	"	L 33	010	21.5	2.20	3.20	1
								3.21	3.39	



Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp.	REMARKS
	Outside base				10/7	Focus 26.27 Tilt 19.5
8:30	8 <sup>m</sup>	36 36	1	6.86	K <sub>5</sub> 1 1/2, 1 1/2, 1 1/2	
9:00	15 <sup>m</sup>	16 21	2	7.03	F <sub>2</sub> 1 1/2, 2 1/2, 1 1/2	
10:00	26 <sup>m</sup>	40 02	3	6.22	F <sub>8</sub> 1 1/2, 1 1/2, 1 1/2	
10:30	40 <sup>m</sup>	16 16	2	7.14	F <sub>5</sub> 1 1/2, 1 1/2, 1 1/2	
11:00	00	28 42	2 → 3	7.11	A <sub>2</sub> 1 1/2, 1 1/2, 1 1/2	
		55 18	4	(5.0)	7	setting 2 spots 20.5
	1h 27 E		3		7	" 5"
	2.23		3		7	" 8"
	30 <sup>m</sup>		5 → 3		10, 7, 10	setting 3. 2x length slit spots 3 <sup>m</sup>
	11 <sup>m</sup>		2		13, 13	setting 7 " " " - clouds
						July 2 12 +09.2 +29.2 -16.8 +09.6







1936  
Fri. Date July 3-4

Hel

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
1041 <sup>f</sup>	Focus			I-12	M Pan	0/0	20.6			4
- 1042	HD 145849	16 08.1	36 41	"	Antara II	"	20.5	8 48	9.39	4
- 1043	HD 157482	17 18.4	40 05	"	Antara II	"	20.5	9.44	10.24	2
1044	" 142926	15 52.2	42 51	"	E 33	"	20.4	10.30	12 00	1
- 1045	N. Lac.	22 13.2	<sup>1936</sup> 55 20	"	Antara II	"	20.9	12.13	12 35	3
- 1046	N Lac				E 33	"	20.6 19.5 21.0	12.35 1.26	1 25	3 44



Fading Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp.	REMARKS										
		mounted base			10/7	Focus 26.35 Tilt 19.5										
9:50	E 8 <sup>m</sup>	36 36	2	6.86	K <sub>g</sub> 1 1/2, 1 1/2											
10:20	E 25 <sup>m</sup>	40 02	2-0-2	6.22	F <sub>g</sub> 1 1/2, 1 1/2, 1 1/2											
10:40	W 2 <sup>h</sup> 37	42 46	ave 3	5.6	B <sub>g</sub> 8, 10, 8	spots 3 min.										
10:50	3 00	55 18	1	(5.9)	3, 4	setting 3 - spots 205										
11:00	E 2 <sup>L</sup> 18		1		3, 4	setting 7										
11:10	W 1 <sup>m</sup>		3		8, 10, 8	1 1/2 x length slit spots 3 <sup>m</sup>										
note temperature control bad.																
<table border="0" style="width: 100%;"> <tr> <td></td> <td>GM.T.A.</td> <td>AG.S.T.A.</td> <td>DM.T. watch</td> <td>DOS.T. watch</td> </tr> <tr> <td>July 4</td> <td>+08.1</td> <td>+34.7</td> <td>-15.4</td> <td>+26.7</td> </tr> </table>								GM.T.A.	AG.S.T.A.	DM.T. watch	DOS.T. watch	July 4	+08.1	+34.7	-15.4	+26.7
	GM.T.A.	AG.S.T.A.	DM.T. watch	DOS.T. watch												
July 4	+08.1	+34.7	-15.4	+26.7												
Think Temp control w. now OK. (watch) 10:17.																





About 225 visitors  
 Showed Her. with 174 each. *guyton* with 4 each  
 and moon

Ending Time L.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp.	REMARKS
		base out reach			1/2	left 19.5 from 26.34 (took clamp out)
0 52 W	-9 13	1	7.47	B2	1 1/2, 1 1/2	11.15 = 21.5    11.50 = 21.9    12.20 = 21.6 spots 30 x
1 2	2 26 E	+55 18	1		1 1/2, 1 1/2	setting 3 spots 20 x
1 2	1 26 E	-	1		1 1/2, 1 1/2	H.V. 7
3 02	0 04 W	-	1-2		3, 3, 3	at 3.0 12.1 spots 90 x 3.40 12.2
						temp in house 58° F.
						ΔDMTA    ΔDM.T watch    ΔObs.T.A    ΔObs.T watch July 6    +7.5    -15.0    -28.0    +5.5

H





Estimated Mag of Nova 5.5

Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp.	REMARKS
17 <sup>m</sup> W	36 35	2	6.86	K5	1/2-1/2-1/2	
31 <sup>m</sup> E	41 57	2	6.70	F0	1/2-1/2-1/2	
36 <sup>m</sup> E	-2 14	1	7.0	B8	1/2-1/2-1/2	
28 <sup>m</sup> W	45 49	1-2	7.12	G5	1/2-1/2-1/2	
1.01 W	32 06	1	7.07	A0	1/2-1/2-1/2	
5 <sup>m</sup> W	55 19	1-2			1/2-1/2-1/2	
						<div style="display: flex; justify-content: space-around;"> <span>Δc M.T.A.</span> <span>Δc NTWald</span> <span>Δc SidT A</span> <span>Δc SidT with</span> </div>
					July 6	<div style="display: flex; justify-content: space-around;"> <span>+7.5</span> <span>-15.0</span> <span>-23.0</span> <span>+5.5</span> </div>

127

Date

Monday July 6-7 1936 M

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
1055 F <sub>1</sub>				I-12	Met P	010 <sub>L</sub>	26.0			1
1056	HD 152282	16 534	147 32	-	Actua II	-	25.9	9.06	10 30	1
1057	H.D. 166014	18 36	105 45	-	E-33	-	25.7	10 32	10 37	2
	-	-	-	-	-	-	-	10 38	10 50	
-1058	HD 187947	17 425	14 51	-	Actua II	-	25.5	11 07	12 17	15
1059	HD 187947	17 425	14 51	-	-	-	25.8	12 22	1 03	
-1060	HD 193637	20 162	33 37	-	-	020 <sub>M</sub>	25.7	1 09	3 09	1
-1061	Focus Lac	20 132	55 50	-	Actua II	010 <sub>L</sub>	25.5	3 16	3 48	4
1061 F <sub>1</sub>	Focus			I-25	M Pan	010	24.5			
1061 F <sub>2</sub>				"	"	"	"			



Ending Time  
E.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp.	REMARKS									
base outside.		1 1/8	-		focus 26.24 tilt 17 - photo 5.11									
	47 29	2	6.94	A2p	with 1/2" filter									
	28 45	2	8.83	A0	2 1/2 2 1/2" photo 5.11									
	-	2	-	-	photo 5.11									
0 50 E	-14 45	1	6.42	A2	1/2 1/2 1/2" photo 5.11									
	30 28	3	6.66	B9	1/2 1/2 1/2" photo 5.11									
1 34 W	33 45	2	8.6	A	1/2 1/2 1/2" photo 5.11									
	55 19	2-1			1/2 1/2 1/2" photo 5.11									
					<table border="1"> <thead> <tr> <th>Delta MTA</th> <th>MT. Watch</th> <th>Delta TA</th> <th>tilt. Watch</th> </tr> </thead> <tbody> <tr> <td>July 7</td> <td>+7.5</td> <td>-14.2</td> <td>+29.2</td> <td>+41.2</td> </tr> </tbody> </table>	Delta MTA	MT. Watch	Delta TA	tilt. Watch	July 7	+7.5	-14.2	+29.2	+41.2
Delta MTA	MT. Watch	Delta TA	tilt. Watch											
July 7	+7.5	-14.2	+29.2	+41.2										
outside base		with filters 4/3		setting 1 Focus 23.35 Tilt 23.0 " 8 " 23.50 " 9 " 23.65										
outside base		4/3		setting 1 Focus 23.45 Tilt 22.7 " 5 " 23.0 " 9 " 23.3										





Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp.	REMARKS
0.22 4	W 1.15 <sup>h</sup>	42 46	2	5.6	B <sub>g</sub> 3,3,3	best focus : Focus 23.45 Tilt 23.2
1-1	W 1.07 <sup>h</sup>	40 03	2	6.22	F <sub>g</sub> 3,3,-	clouds, burnt mid exposure 11.00
2-2	W 2.43 <sup>h</sup>	41 57	2	6.70	F <sub>o</sub> 3,3,3	Half
3-3	W 19 <sup>m</sup>	55-18	0		B <sub>g</sub> 3,3,3	High clouds spots 305.
		var. in time			mag. 4/3	
						ΔGMT.A.    ΔGMT.    ΔGMT.A.    ΔGMT. watch           watch July 8 <sup>d</sup> 12 <sup>h</sup> +6.5    -15.0    +35.1    +53.9

B1

1936

Date

Wed July 8-9 M

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
1065 F <sub>2</sub>				I-12	Ref. Pan	010	27.8	12 31	1 12	
1065 F <sub>3</sub>				-	-	-	33.5	set	1	
				-	-	-	-		5	
				-	-	-	-		9	
							set temp. at 32.0			
1066	H 161569	17 42	45 05	-	Ref. Pan	010	33.8	9 18	9 56	3
-1067	169753	18 21	9 15	-	-	015 <sub>L</sub>	33.5	10 03	12 03	4
-1068	BP 26 376	20 21	02 02	-	-	020 <sub>L</sub>	32.1	12 11	2 11	2
-1069	Ref. Pan	22 12	155 20	-	Ref. Pan	010 <sub>L</sub>	31.8	2 31	3 17	1
-1070	Ref. Pan	-	-	-	Ref. Pan	010 <sub>L</sub>	31.8	3 17	3 47	3
1070 F <sub>1</sub>	Four			I-25	Ref. Pan	010	31.3			4















Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp.	REMARKS
		outside - base			25/15	26.25 Alt 19.5 Two tests. During first test light clouds; star after test.
1 54 W	+13 29	4-3	7.07	K0	1 1/2 - 1 1/2 - 1 1/2	Frame set about 26.27 Light haze
0 46 E	-02 14	2-1	6.9	B8	1 1/2 - 1 1/2 - 1 1/2	cloudy at start. Light haze
1 00 W	+30 05	1-2	7.11	G <sub>1</sub>	1 1/2 - 1 1/2 - 1 1/2	Haze
0 25 E	+8 54	2-	6.8	H <sub>0</sub>	1 1/2 - 1 1/2 - 1 1/2	"
0 17 E	+55 18	2-3			1 1/2 - 1 1/2 - 1 1/2	settling 3
0 06 E	"	2-3			1 1/2 - 1 1/2 - 1 1/2	" 7 Haze
0 24 W		2-3			1 1/2 - 1 1/2 - 1 1/2	clouds
0 40 W		3			"	Plate 1075 + 1079 probably missed by not changing plate box

30°  
early  
1955.

July 11<sup>d 10<sup>h</sup></sup>  
 Δδ MTA Δδ M.T. Δδ S.T.A. Δδ S.T. Δ  
 watch  
 +6.5 -17.8 +41.3 +10.0  
 +76

137

1936

Date Saturday July 11-12 Hd - MR 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
1084 F.	Focus Test	-	-	I-12	M Pan	010	33.8	-	-	4
1085	47 180 216	19 10.6	16 01	"	Antara II	"	33.5	11 05	12 4	1
1086	" 190 167	19 58.6	28 14	"	"	"	32.7	12 23	1 09	2
1087	" 193 555	20 15.7	15 13	"	"	"	32.6	1 12	2 12	3
- 1088	nova Lac.	22 13.2	<sup>1936</sup> 55 20	"	"	"	32.8	2 22	3 24	4
	"	"	"	"	"	"		3 24	3 40	
- 1089	γ Cass	00 50.7	60 11	Lantern	"	"	32.8	3 46	1 min	1
	"							3 48	2 min	
	"							3 51	4 min	55



about 50 minutes in all by 2300 volt. lens found 1138  
 been shown. Finally showed M13 with 7"  
 with 4 1/2" showed Jupiter, M13, Comet P., double star.

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp.	REMARKS
-	-	-	-	-	no filter 3/2	Tilt 19.5 Focus 26.27
24	0.00	16 05	2	7.14	A2 1 1/2, 1 1/2, 1 1/2	
109	W 10 <sup>m</sup>	28 21	2	6.77	B 1 1/2, 1 1/2, 1 1/2	
22	W 57 <sup>m</sup>	15 20	3	7.37	F 1 1/2, 1 1/2, 1 1/2	
324	W 13 <sup>m</sup>	55 19	2		1 1/2, 1 1/2, 1 1/2 setting 3	shots 303 Gary
343	W 29 <sup>m</sup>		3		1 1/2 setting 7	"
		60 22	4	2.01	B <sub>op</sub> no filter 7 sec setting 1	"
					" 5	shots 5 <sup>m</sup> "
					" 9	"
	= 1 <sup>h</sup> 55					

139

Date Sunday July 12-13 <sup>1936</sup> 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
1090	Focus test			I-12	Austin II	010 <sub>L</sub>	<sup>Set</sup> 33.0	8 15		1
		HD 134323	15 04.1	+12 37	"	"	"	33.0	8 40	9 40
- 1091		18 37.9	19 26.1	-02 19	"	"	32.9	9 46	11 00	2 25
1092		16 48.9	17 58.3	+45 21	"	"	31.9	11 05	12 15	3
1093		17 63.7	18 54.9	+30 02	"	"	32.9	0 21	1 21	4 34
- 1094		20 61.5	21 35.1	+08 44	"	"	32.9	1 26	2 26	1 25
- 1095	Nova Lacertae	22 13.2	1936 +55 20	"	"	"	33.0	2 32	3 02	2 25
- 1096	"	"	"	"	"	"	33.0	3 03	3 18	3 4
1097	HD 216511	22 48.4	1900 +46 01	"	"	"	32.9	3 21	4 01	4 34



Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp.	REMARKS
		outside-base			20/12	19.5 tilt; 25.27 Jan.
1	39 W	+13 29	2-1	7.07	K0	1 1/2 - 1 1/2 - 1 1/2 Stages. Image very wavy, the night was calm
2	1 22 E	+02 14	2-3	6.9 v	B9	1 1/2 - 1 1/2 - 1 1/2 Stages
3		+45 22	3-1	7.42	B9	1 1/2 - 1 1/2 - 1 1/2 Note Temp. drop; yet heat was on at this time.
4	1 30 W	+30 05	4	7.11	G0	1 1/2 - 1 1/2 - 1 1/2 Dense haze 0 <sup>35</sup> -
1	0 05 W	+09 53	3	6.8 v	F0	1 1/2 - 1 1/2 - 1 1/2
2	0 05 E	+55 19	2			1 1/2 - 1 1/2 - 1 1/2 Light haze
3	0 11 W	+55 19	3			3-2 Light haze
4	0 18 W	+46 12	3	6.68	B9	1 1/2 - 1 1/2 - 1 1/2 " "

Plates 1091-1099 each 30<sup>s</sup> with tube  
 July 13<sup>d</sup> 12<sup>h</sup> SBMT.A. DBMT.VY DBS.T.A. DBST.W  
 +46 -21.4 +41.3 +83.1











Ending Time M.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp.	REMARKS																					
		outside	vase		no filter 3/2	T set 19.5 7 sec 26.27																					
0.17	W 1 <sup>h</sup> 27	36 36	0	6.86	K <sub>5</sub> 1 1/2, 1 1/2, 1 1/2	RA clamping out of order. clamped by hand																					
	W 1 <sup>h</sup> 59	16 27	0	7.03	F <sub>2</sub> 1 1/2, 1 1/2, 1 1/2																						
				6.10	A <sub>5</sub> 1 1/2	setting 5 - mistake in slit length																					
	W 3 <sup>m</sup>	13 21	0	"	" 1 1/2, 1 1/2, 1 1/2	setting 9																					
	W 37 <sup>m</sup>	46 00	0	6.16	A <sub>0</sub> 1 1/2, 1 1/2, 1 1/2																						
	W 1 <sup>h</sup> 03	53 19	1		1 1/2, 1 1/2, 1 1/2	setting 3. spots 20 s																					
Observed very pronounced earth-shine.																											
RA clamping still not working.																											
<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="text-align: center;">July 15</td> <td style="text-align: center;">d</td> <td style="text-align: center;">h</td> <td style="text-align: center;">Σ C.M.T.A.</td> <td style="text-align: center;">Σ C.M.T. Watch</td> <td style="text-align: center;">Σ C.S.T.A.</td> <td style="text-align: center;">Σ C.S.T. Watch</td> </tr> <tr> <td></td> <td style="text-align: center;">15</td> <td style="text-align: center;">12</td> <td style="text-align: center;">+3.2</td> <td style="text-align: center;">-24.3</td> <td style="text-align: center;">+48.7</td> <td style="text-align: center;">+98.7</td> </tr> <tr> <td colspan="6" style="text-align: center;">Sidereal Watch set on 1 min.</td> <td style="text-align: center;">+38.7</td> </tr> </table>							July 15	d	h	Σ C.M.T.A.	Σ C.M.T. Watch	Σ C.S.T.A.	Σ C.S.T. Watch		15	12	+3.2	-24.3	+48.7	+98.7	Sidereal Watch set on 1 min.						+38.7
July 15	d	h	Σ C.M.T.A.	Σ C.M.T. Watch	Σ C.S.T.A.	Σ C.S.T. Watch																					
	15	12	+3.2	-24.3	+48.7	+98.7																					
Sidereal Watch set on 1 min.						+38.7																					

145

Date Wednesday, July 15-16 S-H-MR 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
1107	NGC 5904	15 13.5	+02 27	N	E 40	-	(74°F)	9 27	9 37	37 W
1108	6254	16 51.9	-03 57		"			9 43	9 53	4 W
1109	6402	17 32.4	-03 11		"			9 58	10 22	6 W
1110	6402	"	"		Astra II			10 28	10 48	30 W
1111	6779	19 12.7	+30 00		"			11 05	11 30	027 E
1112	6402	17 32.4	-03 11		E 40			11 38	12 02	145 W
1113	"	"	"		Astra II			12 04	12 24	207 W
1114	6760	19 6.1	+0 52		"			12 35	1 05	119 W
1115	6402	17 32.4	-03 11		E 40			1 08.5	1 33.5	317 W
1116	6205	16 38	36 39		"			1 43	1 45	
1117	6934	20 29.3	+7 4		"			1 54	2 19	05 W
1118	* 7089	21 28.2	-1 16		"			2 26	2 34	
1119	6779	19 12.7	30 0					2 43	3 03	
1120	6934	20 29.3	+7 4				(68°F)	3 08	3 30	114 W





147

Date *Thursday July 16-17* 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	D
11 21	NGC 6341	17 14.1	+43 15	N	E 40	-	(74°F)	9 08	9 23	0.15	
11 22	5904	15 13.5	+02 27		"			9 29	9 39	0.10	
11 23	6402	17 32.4	-03 11		"			9 45	10 20	0.75	
11 24	6402	"	"		Astra II			10 22	10 57	0.35	
11 25	6254	16 51.9	-03 57		E 40			11 01	11 11	0.10	
11 26	6779	19 12.7	+30 00		E 40			11 20	11 30	0.10	
11 27	6402	17 32.4	-03 11		"			0 02	0 42	0.40	
11 28	6760	19 06.1	+0 52		"			0 47	1 32	0.85	
11 29	6205	16 38.1	+36 39		"			1 39	1 49	0.10	
11 30	6934	20 29.3	+07 04		Astra II			2 00	2 25	0.25	
11 31	7089	21 28.3	-01 16		"			2 28	2 38	0.10	
11 32	6934	20 29.3	+07 04		E 40			2 44	3 09	0.25	
11 33	6934	"	"		Astra II		(67°F)	3 10	3 30	0.20	



Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp.	REMARKS
	0 31 E		Fair to Poor			clouds 2 <sup>m</sup> after start. Guide star intermittently visible
	1 45 W					clouds
	0 06 W					clouds } shut off 3 <sup>m</sup> } of the 10 <sup>m</sup> star to large
	0 43 W		Poor			clouds
	1 38 W					Haze
	0 13 E					Thick clouds over most of sky at end
	2 29 W		fair			Smoke & clouds
	1 46 W					
	4 31 W					Refused
	1 15 W					
	0 29 W					
	1 59 W					
	2 20 W					

Smoke had at low altitude later half night.

d	h	DOM.T.A.	DOM.T. Watch	DOB.T.A.	DOB.T. Watch
July 17	12	+2.2	-25.3	+44.2	+53.0
July 18	10	+1.8	-25.7	+44.6	+57.6

149

1936

Date Sat July 18-19 Hd MR. 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 E.S.T.
1133 F	Focus			I-2	N Pan	010	23.2			3
-1134	H. 169-23	13 17.6	51 18	"	infra II		23.2	10 26	11 36	+
1135	" 191745	20 26.7	29 04	"	"	"	23.4	11 40	1 10	1
-1136	Yarn Lane	20 13.2	55 20	"	"	"	23.5	1 15	2 45	2
							23.5	2 45	3 15	2
1137	H. 3.219634	23 12.2	61 25	"	"	"	23.5	3 23	4 03	3



24 1 returns moved to see, 1943 with 150  
 Jupiter, limit to with 150

Ending Time  
 E.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp.	REMARKS
base outside				no filter 3/2	26.27 - alt 19.5
0 46 W	51 18	1	7.32	K <sub>2</sub> 1 1/2, 1 1/2, 1 1/2	7.32
0 31 W	29 10	1	7.42	B <sub>2</sub> 1 1/2, 2 1/2	
0 01 W	55 18	1-3-1		2, 2, 2	alt 5 spots 30 s.
0 32 W	55 15	1		2, 2, 2	" 19
0 19 W	61 36	1	6.44	B <sub>2</sub> 2, 2, 2	
					Balance not too good





Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp.	REMARKS															
11:00	14 <sup>m</sup> W	43° 54'	0-1	6.36	A0 1/2-1/2-1/2																
11:05	20 <sup>m</sup> W	14 16	0	6.36	A2 1/2-1/2-1/2																
11:10	16 <sup>m</sup> W	27 48	1	6.56	F8p 1/2-1/2-1/2																
11:15		15 06	0	7.19	F0 1/2-3	clouded thick at 12 <sup>30</sup> - cloud 2 <sup>00</sup>															
						<table border="0"> <tr> <td>C.T.</td> <td>Δθ M.T.A.</td> <td>Δθ S.T.A.</td> <td>Δθ M.T. WATCH</td> <td>Δθ S.T. WATCH</td> </tr> <tr> <td>July 20 12</td> <td>+ 00.8</td> <td>+ 40.8</td> <td>-26.2</td> <td>+18.5</td> </tr> <tr> <td colspan="5" style="text-align: right;">Advanced 1<sup>m</sup></td> </tr> </table>	C.T.	Δθ M.T.A.	Δθ S.T.A.	Δθ M.T. WATCH	Δθ S.T. WATCH	July 20 12	+ 00.8	+ 40.8	-26.2	+18.5	Advanced 1 <sup>m</sup>				
C.T.	Δθ M.T.A.	Δθ S.T.A.	Δθ M.T. WATCH	Δθ S.T. WATCH																	
July 20 12	+ 00.8	+ 40.8	-26.2	+18.5																	
Advanced 1 <sup>m</sup>																					

153

1936

Date Monday July 20-21 Hd 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
114	Focus			I-12	Antar II	010	21.1			
- 114	HD 145849	16 08.1	36 41	"	"	"	21.0	8.36	9.36	3
1143	" 157746	17 20.0	15 43	"	"	"	21.2	9.40	10.50	4
1144	" 191918	20 07.2	32 00	"	"	"	21.2	11.43	12.49	1
- 1145	N Lac	22 13.2 <sup>(1936)</sup>	55 20	"	"	"	21.4	12.56	2 06	2
							21.3	2 06	2 24	
1146	HD 219634	23 12.2	61 25	"	"	"	21.5	2 30	3 02	
1147	9709	01 30.0	46 36	"	"	"	21.5	<del>3 12</del>	4 10	4



Ending Time  
E.S.T.

Hour Angle Knd	Declination	Seeing	Ptg. Mag.	Comp.	REMARKS	
<i>hard outside</i>					no filters 1/2	Focus 26.27 Tilt 19.5.
W 1 <sup>h</sup> 03	36 35	var. we 1	6.86	K5 1/2, 1/2, 1/2		
W 1 <sup>h</sup> 11	15 38	1	6.23	B9 1/2, 1/2, 1/2	Clouds 955 on Thick 1045 mid exp 10.00	
W 1 <sup>h</sup> 17 <sup>m</sup>	32 06	1 → 3	7.07	A0 1/2, 1/2, 1/2	for F.S.P.	
E 31 <sup>m</sup>	55 18	6 → 3		1/2, 1/2	setting 5	
E 12 <sup>m</sup>		4		1/2, 1/2, 1/2	" 9	
E 34 <sup>m</sup>	61 37	3	6.44	B8 1/2, 1/2, 1/2	} e/ports 30 S	
E 1 <sup>h</sup> 44 <sup>m</sup>	46 46	2	7.00	B9 1/2, 1/2, 1/2		
					hard filter visible to naked eye	
					$\Delta$ OM.TA. $\Delta$ OS.TA. $\Delta$ o H.T. unred $\Delta$ o S. unred July 21 13    +00.3    +41.3    -26.5    +15.5	

155


1936

Date *Tuesday July 21-22 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 Est
1148	<i>From test</i>			I-12	Asp 2 II	010	<sup>set</sup> 22.0	7 45		1
	HD 151388	16 42.0	+43 24	"	"	"	22.0	8 30	9 20	1
1149	152951	16 51.5	+46 41	"	"	"	21.9	9 23	10 12	2
1150	152153	16 43.1	+43 36	"	"	"	22.0	10 16	11 26	3
- 1151	<i>Comet Peltier</i>	23 04	+54.0	"	"	020	22.0	11 48	03 48	4
	<i>λ 2nd</i>	23 34.2	+46 28	"	"	"	21.8	3 51	3 52	5
								3 53	3 57	6
								3 57	3 57	7



Ending Time  
E.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp.	REMARKS
				18/12	From 26.27 Tilt 19.5
0 18 W	+43 19	seeing 5-1	7.14	K2	1 1/2 - 1 1/2 - 1 1/2
1 01 W	+46 38	3-4	6.77	A2	1 1/2 1 1/2 1 1/2
2 19 W	+43 32	3	7.37	K0	1 1/2 1 1/2 1 1/2
3 32 E	+54 05			2-2	1936 faint estimate of RA from marked position
0 28 W	+53 50 (approx)				Outside nucleus about 5" in diameter
	+46 06		4.00	10	no comp work ← image trailed with RA guiding
0 05 W					at 3 <sup>37</sup> comet crosses a fairly bright star (mag 2) Very impressive; the comet is white and the star is yellow
					
					Each plate 40" tube sensitive
					C.T. ΔRM.T.A. ΔOS.T.A. ΔOM.Ward ΔOS.Ward
					July 22 12 +00.0 +41.8 -26.8 +20.8
					Remove 0.2

157

Date

1936  
July 24 - 25

Hd

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
- 1152	7 stars			I-12	Anthracene	010	21.0			1	
	HD 145849	16 08.1	36 41	"	"	"	21.0	8 32	9 25		
- 1153	" 157482	17 18.4	40 05	"	"	"	21.1	9 28	10 00	2	
1154	" 172976	18 38.0	44 10	"	"	"	21.1	10 04	11 32	3	
1155	" 193556	20 15.7	14 16	"	"	"	21.0	11 36	12 39	4	
1156	" 194012	20 13.2	14 13	"	"	"	20.9	12 40	1 26	1	
- 1157	Three stars	22 13.2	45 20	"	"	"	21.1	1 32	3 06	2	
							20.8	3 06	5 26		
1158	HD 219634	23 12.2	61 25	"	"	"	20.9	3 32	4 08	3	



Ending Time  
E.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp.	REMARKS						
Vane outside Focus 46.27, Tilt 19.5					no filters 1/2	July 23	12	-00.1	+41.9	-28.2	+29.6
W 107	36 36	1	6.86	K5 1/2, 1/2, 1/2	July 24	12	-00.2	+42.4	-27.5	+36.4	
W 33 <sup>m</sup>	40 02	3	6.22	F8 1/2, 1/2, 1/2							
W 45 <sup>m</sup>	44 12	2	7.46	A5 1/2, 1/2, 1/2							
W 14 <sup>m</sup>	14 22	1	7.12	G5 1/2, 1/2, 1/2							
W 1 <sup>h</sup> 00	14 21	2	6.64	F5 1/2, 1/2, 1/2							
W 46 <sup>m</sup>	55 19	3		1/2, 1/2, 1/2	setting 5	}	spots 40 S				
W 1 <sup>h</sup> 06				1/2, 1/2, 1/2	setting 9						
W 48 <sup>m</sup>	61 36	3	6.44	B8 1/2, 1/2, 1/2							
					July 25	10	-00.3	+42.5	-27.3	-18.3	
										Advanced 1 min.	

159

1936

Saturday

Date

July 25-26

H-MR

Julian Day 2428375-6

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
- 1159	HD 145849	16 09.1	+36 41	I-12	Astra II	0.10	20.0	11 44	12 54	4
- 1160	206155	21 35.1	+08 44	"	"	"	20.0	1 00	2 10	2
1161	210334	22 04.6	+45 15	"	"	"	19.7	2 13	3 33	3
1162	216511	22 48.4	+46 01	"	"	"	19.6	3 36	4 20	4



Entry Time  
L.A.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp.	REMARKS
					80± Visitors; 2 Here + M13 with 74" scope, Fujita, Palto with 4". 2300 Volt fuse blow again 10 <sup>20</sup> . Hydrogen filter
4 41 W	+56 36	2	6.86	K5 1 $\frac{1}{2}$ , 1 $\frac{1}{2}$ , 1 $\frac{1}{2}$	
0 30 W	+ 8 53	3	6.8 W	M0 1 $\frac{1}{2}$ , 1 $\frac{1}{2}$ , 1 $\frac{1}{2}$	
(1 25 W)	+45 26		7.30	G5 1 $\frac{1}{2}$ , 1 $\frac{1}{2}$ , 1 $\frac{1}{2}$	
	+46 12	3-4	6.68	B9 1 $\frac{1}{2}$ , 1 $\frac{1}{2}$ , 1 $\frac{1}{2}$	











Ending Time  
E.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp.	REMARKS
1 <sup>h</sup> 17 <sup>m</sup> W	36 34	4	6.86	K5	1/2-1/2-1/2
38 <sup>m</sup> W	36 01	3	6.22	F8	1/2-1/2-1/2
47 <sup>m</sup> W	43 38	3	7.57	E5	1/2-1/2-1/2
59 <sup>m</sup> W	46 55	2	6.90	A <sub>a</sub>	1/2-1/2-1/2
46 <sup>m</sup> W	+8 52	2-1	6.8	A <sub>o</sub>	1/2-1/2-1/2
				9-7	Setting 2
					July 28 12 -01.0 +43.0 -29.0 +02.2

165

1936

Date Full July 28-29 HD 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
-1168	Focus			I-12	Ormat	010	25.0	mid 9.10	4	
	HD 157482	17 18.4	40 05	"	"	"	25.0	8.25	9.31	"
	"	"	"	"	"	"	25.1	9.31	10 01	"
70 1169	HD 164078	17 54.4	32 41	"	"	"	25.1	10 06	10 58	1
71 1170	" 179838	18 09.0	29 03	"	"	"	24.8	11 01	12 01	2
	199478		47 02							
1172	" 199479	20 52.4	43 59	"	"	"	25.0	12 06	12 56	3
1173	" 199511	20 52.6	43 02	"	"	"	25.1	1 00	1 50	4
- 1174	Nova Lac	22 13.2	55 20	"	"	"	25.1	1 55	3 25	1
	"			"	"	"	24.9	3 25	3 45	"
1175	HD 219634	23 12.2	61 25	"	"	"	25.0	3 50	4 22	2



Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp.	REMARKS
		Outside base			no filter 1/2	Focus 26.27 Tilt 19.5-
W 19 <sup>m</sup>			3	6.22	F <sub>8</sub> 1 1/2, 1 1/2, 1 1/2	Two clouds - Exposure very uncertain. Clearing at
W 50 <sup>m</sup>	40 02		2	"	" 1 1/2, 1 1/2, 1 1/2	9.30. i. repeated.
W 1 <sup>h</sup> 11	32 39		1	6.96	F <sub>5</sub> 1 1/2, 1 1/2, 1 1/2	
W 59 <sup>m</sup>	29 06		1	6.93	A <sub>0</sub> 1 1/2, 1 1/2, 1 1/2	
W 1 <sup>h</sup> 11 <sup>m</sup>	47 10		2	6.66	B <sub>8</sub> 1 1/2, 1 1/2, 1 1/2	mistaken setting discovered Jan 5/39
W 1 <sup>h</sup> 25	43 10		1	6.74	B <sub>8</sub> 1 1/2, 1 1/2, 1 1/2	
W 1 <sup>h</sup> 20	55 18		2		1 1/2, 1 1/2, 1 1/2	setting 3.   spots 408
W 1 <sup>h</sup> 41	"		2		1 1/2, 1 1/2, 1 1/2	" 7
W 1 <sup>h</sup> 17	61 37		2	6.44	B <sub>8</sub> 1 1/2, 1 1/2, 1 1/2	
						July 29. 12 -01.1 -00.5 -29.6 +07.8 Stopped & reset

167

Date <sup>1936</sup> July 29-30 Wednesday Y-MR 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
1176	HD 154713	17 02.0	+43 57	I-12	Astra II	set .010	set 18.8	8 24	8 56	1	0 34 W
1177	HD 162880	17 48.2	+44 56	"	"	"	18.6	8 59	10 29	2	0 52 W
1178	HD 176626	18 56.1	+43 35	"	"	"	19.0	10 35	11 27	3	0 42 W
1179	HD 187237	19 43.9	+27 36	"	"	"	18.7	11 35	12 55	4	1 22 W +
1180	HD 210334	22 04.6	+45 15	"	"	"	19.1	1 54	3 04	1	0 W +
{ 1181	HD 1826	00 17.6	+28 55	"	"	"	18.6	3 12	4 20	2	0 13 W
{ F <sub>1</sub>	Focus (outside thru base)			"	"	"	19.0				



Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp.	REMARKS	
6 11	0 09 W	+43 54	2	6.36	A <sub>0</sub>	1/2-1/2-1/2	
10 29	0 52 W	+44 55	2	7.8	F <sub>0</sub>	1/2-1/2-1/2	guided on lower star in guiding field
12 27	0 42 W	+43 38	2	7.0	A <sub>2</sub>	1/2-1/2-1/2	
12 55	1 22 W	+27 42	2	7.5	G <sub>5</sub>	1/2-1/2-1/2	clouds over most of sky except extreme northern portion 1.00 to 1.50
3 34	1 10 W	+45 26	2	7.3	G <sub>5</sub>	1/2-1/2-1/2	setting 3
4 20	0 13 W	+29 05	2	7.0	A <sub>3</sub>	1/2-1/2-1/2 no filters 3/2	setting 3 Focus: 26.27 Tst: 19.51
							drawer bullet fell out of circle light. Remains in desk
							Δ04 watch Δ05 watch
							July 30 12 -01.1 +00.1 -29.3 +13.3





Ending Time  
EST

Hour	Angle End	Declination	Seeing	Ptg. Mag.	Comp.	REMARKS
					15/10	
1	11 W	+ 26 35	2	6.86 K5	1 1/2 1 1/2 1 1/2	Scattered clouds during first half.
1	25 W	+ 42 20	2	7.14 K2	1 1/2 1 1/2 1 1/2	
1	23 W	+ 45 21	3-4	7.42 B9	1 1/2 1 1/2 1 1/2	
1	04 W	+ 60 50	3	7.01 B9	1 1/2 1 1/2 1 1/2	
0	10 E	+ 18 54	2-1	6.84 B8	1 1/2 1 1/2 1 1/2	
0	24 W	+ 45 26	2-3	7.3 B3	1 1/2 1 1/2 1 1/2	
0	24 W	+ 45 02	3	6.50 A2	1 1/2 1 1/2 1 1/2	
0	3 W	+ 31 16	2	8.00 F2	1 1/2 1 1/2 1 1/2	
					15/10	

Merits to 30' each

July 31 12 -01.0 +00.1 -28.3 +20.6

N.T. used S.T. used

171

1936

Date July 31 - Aug 1 Friday 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	Dist
1190	HD 164059	17 54.3	45 53	I-12	Astra II	Set 010	Set 23.0	8 20	9 20	1	
- 1191	HD 169028	18 17.6	51 18	"	"	"	22.8	9 26	10 16	2	
1192	HD 176003	18 53.0	44 05	"	"	"	23.0	10 22	11 02	3	
1193	HD 190227	19 58.9	31 40	"	"	"	23.1	11 08	12 04	4	
1194	HD 197139	20 36.6	43 05	"	"	"	23.0	12 12	12 52	1	
- 1195	HD 206155	21 35.1	+8 44	"	"	"	23.0	12 59	1 45	2	
1196	HD 210334	22 04.6	+45 15	"	"	"	22.8	1 51	2 31	3	
1197	HD 219091	23 09.6	+29 13	"	"	"	22.7	2 36	3 16	4	
1198	HD 3291	00 30.9	+44 06	"	"	"	22.7	3 23	4 23	1	
	Focus.				Outside film base						



Ending Time  
E.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp.	REMARKS
15 <sup>m</sup> E	+45 52	3	7.2	F5 1/2-1/2-1/2	near time watch run down
17 <sup>m</sup> W	51 18	3	7.3	K2 1/2-1/2-1/2	used my own watch = 0 = -1 <sup>m</sup>
28 <sup>m</sup> W	44 08	3	7.0	A2 1/2-1/2-1/2	
24 <sup>m</sup> W	31 45	3	7.5	K0 1/2-1/2-1/2	
35 <sup>m</sup> W	43 13	4	7.2	K0 1/2-1/2-1/2	
29 <sup>m</sup> W	+8 52	3	6.8	A0 1/2-1/2-1/2	
45 <sup>m</sup> W	45 26	2	7.3	G5 1/2-1/2-1/2	
26 <sup>m</sup> W	29 24	2	6.8	F5 1/2-1/2-1/2	
11 <sup>m</sup> W	44 16	3	7.3	B8 1/2-1/2-1/2	

12/8

	C.T.	ΔO.M.T.A.	ΔO.S.T.A.	ΔO.M.T. watch	ΔO.S.T. watch
Aug. 1	12	-00.9	-00.2	-07.4	+25.3





About 500 visitors. Hd showed & Here with 79 174  
 S lectured. H showed moon, Jup, etc with  
 5" comet poor account of moon.

Ending Time  
 E.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp.	REMARKS
	outside base			1 1/9	
W 3 <sup>m</sup>	28 20	3	6.77	A9 1 1/2 1 1/2 1 1/2	
W 1 <sup>32</sup>	29 38	2	7.40	A0 1 1/2 1 1/2 1 1/2	spots 40S
W 5 <sup>m</sup>	55 17	3.		1 1/2 1 1/2 1 1/2	nothing 3
W 1 <sup>12</sup>	"	3		1 1/2 1 1/2 1 1/2	" 7
E 14 <sup>m</sup>	32 04	3	6.71	A0 1 1/2 1 1/2 1 1/2	Light clouds
E 46 <sup>m</sup>	32 12	3	6.76	A3 1 1/2 1 1/2 1 1/2	
					Aug. 4 12 -01.1 -00.1 -10.6 -12.0 Advanced 1 <sup>m</sup>





Ending Time  
E.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp.	REMARKS																		
				no filter 3/2	2 exposures - (first had with 1/4)																		
0 49 N	-2.14	1	6.8	B8 1/2, 1/2, 1/2	Very bad smoke. Some clouds. Developed in very water.																		
	+31 39		6.69	A0 15	See track.																		
					<table border="1"> <thead> <tr> <th></th> <th>C.T.</th> <th><math>\Delta \theta</math> M.T.A.</th> <th><math>\Delta \theta</math> S.T.A.</th> <th><math>\Delta \theta</math> M.T. watch</th> <th><math>\Delta \theta</math> S.T. watch</th> </tr> </thead> <tbody> <tr> <td>Aug. 5</td> <td>12</td> <td>-01.2</td> <td>00.0</td> <td>-11.0</td> <td>-05.5</td> </tr> <tr> <td>6</td> <td>12</td> <td>-01.3</td> <td>+00.1</td> <td>-10.5</td> <td>+03.1</td> </tr> </tbody> </table>		C.T.	$\Delta \theta$ M.T.A.	$\Delta \theta$ S.T.A.	$\Delta \theta$ M.T. watch	$\Delta \theta$ S.T. watch	Aug. 5	12	-01.2	00.0	-11.0	-05.5	6	12	-01.3	+00.1	-10.5	+03.1
	C.T.	$\Delta \theta$ M.T.A.	$\Delta \theta$ S.T.A.	$\Delta \theta$ M.T. watch	$\Delta \theta$ S.T. watch																		
Aug. 5	12	-01.2	00.0	-11.0	-05.5																		
6	12	-01.3	+00.1	-10.5	+03.1																		





Hour Angle  
EST.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp.	REMARKS
				no filter 3/2	26.27 f, 16.5 KHz
1.30 W	+36 35	1-2	6.86	K5	1st 1st 1st
1.30 E	+30 05	1-2	7.11	G0	1st 1st 1st
0.39 W	-02 15	2	6.84	B8	1st 1st 1st
0.26 E	+04 52	2	6.74	G0	1st 1st 1st
0.20 W	+45 25	2-3	7.30	B5	1st 1st 1st Ran dec on back a bit
1.23 W	+55 17				1st 1st 1st " 3 } " 7 }
1.39 W					1st 1st 1st
1.07 W	+61 45	3	6.78	H2	1st 1st 1st
	+61 13	3	6.39	F8	1st 1st 1st
					Take correction at -40°
					So much much of night
				no filter 6/4	Bolting 4 Focus 23.2
				"	" 5 " 23.4
				"	" 9 " 23.6
					But focus 23.4

bars outside

no filter  
6/4  
" 5  
" 9  
Bolting 4 Focus 23.2  
" 5 " 23.4  
" 9 " 23.6  
But focus 23.4

179

1936

Date Friday August 7-8 Hd-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
- 1213	HD 145849	16 09.1	36 41	I-25	Astra II	0.10	set 25.0	8 22	10 22	1
1214	" 186340	19 38.7	60 16	"	"	"	25.0	10 31	12 05	2
1215	" 210334	22 04.6	45 15	"	"	"	25.1	12 10	2 20	3
- 1216	HD 5394	00 50.7	60 43	"	"	0.10	25.1	at 2.30	30 9	1
								at 2.32	1 <sup>m</sup>	
								at 2.36	2 <sup>m</sup>	
- 1217								at 2.39	30 9	2
								at 2.41	1 <sup>m</sup>	
								at 2.45	2 <sup>m</sup>	
- 1218					Process			2 49	2 55	4
								2 57	3 09	
								3 11	3 30	
1219	HD 1439	00 13.4	30 58	I-25	Astra II	0.10	25.1	3 35	4 30	3



Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp.	REMARKS
	3 00 W	36 36	2-3	6.86 K <sub>s</sub>	3-3-3	Aug. 7 12 M.T.A. S.T.A. M.T. watch S.T. watch -01.4 +00.2 -09.7 +33.2
	1 <sup>h</sup> 14 <sup>m</sup> W	60 21	5	6.27 A <sub>2</sub>	3-3-3	beginning up at 9.55 levelled 1213
	1 <sup>h</sup> 02 W	45 25	5	7.30 G <sub>s</sub>	4,4,4	spots 405 " 1214
		60 22	4	2.01 R <sub>ep</sub>	12	set 1 spots 405
					12	" 5
					12	" 9
	at 3.07 hr C = 57 <sup>m</sup> E.		4		12	set 1 spots 405   better in plate later
					12	" 5
					12	" 9.
			6		no filter 12-12	set 1
					12, 12	" 5
					12, 12	" 9 (2x length slit)
	1 <sup>h</sup> 03 W	31 09	6	5.80 A <sub>0</sub>	4,4,4	Certain amount of haze 2/3 smaller all night.

Date

1936  
*Saturday August 8-7 H-MR* 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	D
1219 F1	Focus test			I-12	E 40		21.5	10 10 00		2	
- 1220	Focus test			I-12	Astra II	010	Set 25.7	10 00 00		1	
	HD 145849	16 08.1	+36 41	"	"	"	25.5	10 07	11 17	1	
<del>1221</del>	<del>147443</del>	<del>19 457</del>	<del>+44 07</del>	<del>"</del>	<del>"</del>	<del>"</del>		<del>11 27</del>	<del>12 25</del>	<del>2</del>	
- 1221	206155	21 38.1	+08 44	"	"	"	25.5	11 54	1 14	3	
1222	206842	21 39.7	+58 48	"	"	"	25.5	1 18	2 19	1	
1223	222275	23 34.1	+61 35	"	"	"		2 22	3 32	2	640W
1224	6475	01 00.7	+59 20	"	"	"	25.5	3 34	4 34	3	



Ending Time  
E.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp.	REMARKS
Antar - base				no filter 4/3	<p>alt 175    alt 1 — from 26.20 } Best 26.128</p> <p>5 — 26.30</p> <p>7 1/2 — 26.37</p> <p>08MTA    00ST.A.    05MT. Watch    00ST. 00ST</p> <p>log 8<sup>d</sup> 10<sup>n</sup>    -01.4    +05.2    -09.7    +21.7</p> <p>about 90 visitors, showed K elements and Ring</p>
Antar - base				no filter 4/3	<p>alt 74" ; Jupiter - M13 with 4"</p>
4 00W	+36 35	2	6.86	K5	1 1/2, 1 1/2
	+44 12		6.77	B8	1 1/2, double star; N. bright of pair; too faint for credit
0 30W	+08 52	2	6.8	A0	1 1/2, 1 1/2
1 31W	+58 58	3-4	7.28	K2	1 1/2, 1 1/2
0 48W	+61 45	4	6.78	A2	1 1/2, 1 1/2
0 23W	+59 30	4	6.78	A0	1 1/2, 1 1/2
					thick smoke early evening

Date Monday, Aug 10, 1914 S-M

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
	$\delta$ oph	<i>Arms</i>		<i>New Min</i>			70°F			
1225	NGC 6254	16 51.9	-03 57	"	E 40			8 34	8 44	1 10
1226	6402	17 32.4	-03 11	"	"			8 53	9 23	1 30
1227	6402	"	"					9 25	9 50	1 50
1228	6760	19 06.1	+00 52					10 02	10 47	1 50
1229	6402	17 32.4	-03 11		<i>Act. II</i>			10 57	11 27	2 10
1230	6402				"			11 28	11 53	2 30
1231	6205	16 39.1	+36 39		"			12 08	12 18	2 40
1232	6904	20 29.3	+17 04		"			12 34	12 46	2 50
1233	6341	17 14.1	+43 15					0 57	1 12	3 00
1234	6779	19 12.7	+30 00					1 12	1 30	3 10
1235	6934	20 29.3	+17 04					<i>min. 2 05</i> 1 55 ↓	2 28	3 20
1236	7089	21 20.3	-01 16					2 31	2 46	3 30
1237	6934	20 29.3	+17 04					3 19	3 41	3 40
1238	7079	21 20.3	+11 44					3 48	4 03	3 50



Heavy all day; clearing in early evening, but still  
with scattered clouds at dark.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp.	REMARKS
					Aug. 10 No time signals
					Sarg: M.T. watch S.T. watch - 01.5 + 10.1 - 10.0 + 35.3
	0.2 min. of position of last week.				
0 50 W		refuse			Perdiguat. guiding system of the plate
0 48 W		better			reference shot off twice due to car lights.
1 15 W		fair to poor			M level. Feb 1226 + 1225 shot off for 1 min.
0 39 W					
2 52 W					used plate with guiding system
3 23 W					level Feb 1227 + 1228
4 31 W					
1 18 W					Refuse
4 52 W					- 1229 + 1230
3 24 W					← Power cut off about 4 minutes
2 59 W		poor			Refuse clouds after first 20 min
2 18 W					clouds faded at close
(2 17 W)					clouds again in water
3 36 W					S only at 12 1231 - 1232

185

Date Tuesday Aug 11-12 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
	<i>5 obj</i>									
	<i>Form + recalculated, Refocused,</i>									
1239	N.C.C. 6779	19 12.7	+30 00		Astria II			9 48	9 53	
1240	6402	17 32.4	-03 11					9 09	9 39	
1241	6402							9 40	10 05	
1242	6254	16 51.9	-03 57					10 09	10 19	
1243	6760	17 6.1	+0 52					10 36	11 09	
1244	6402	17 32.4	-3 11					11 19	11 57	
1245	6981	20 48.0	-12 55					12 01	12 26	
1246	6205	16 38.1	+36 39				62°F	12 34	12 42	
1247	6341	17 14.1	+43 15					12 46	12 56	
1248	6934	20 29.3	+07 04					1 04	1 29	
1249	6779	19 12.7	+30 00					1 37	1 57	
1250	6211	17 14.1	+42 15					2 05	2 13	
1251	6934	20 29.3	+07 04					2 23	2 45	
1832	Sat. ...				E. Pyrex			2 58		
1832					E 33				3 01	





















About 30 visitors

Shows sign  
M 57

Ending Time  
E.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp.
1 35 W	28 47	0	7.17 A0	1/2, 1/2, 1/2
1 13 W	27 24	0	7.07 A0	1/2, 1/2, 1/2
1 03 W	45 59	1	6.82 B9	1/2, 1/2, 1/2
0 20 W	45 03	1	6.34 A0	1/2, 1/2, 1/2

REMARKS

Superior no. usual  
in 4 1/4"





Ending Time  
L.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp.	REMARKS
				13 8	
0 03W	14 39	1	6.67	B9 1/2, 1/2, 1/2	
0 50W	14 55	1	6.43	B9 1/2, 1/2, 1/2	
2 20W	15 39	1	7.13	B9 1/2, 3	some haze in region 10.15 thicker at 10.30 smoke and haze out
0 40W	44 02	0	6.65	A2 1/2-1/2	heavy clouds star rapidly disappearing faded in completely at 1.30
			6.25	A2	

	d	h	ΔM.T.A.	ΔG.S.T.A.	ΔM.T. Watch	ΔG.S.T. Watch
Aug 17	12		-3.3	-0.4	-7.3	+1.8

195

1936

Date Monday August 17-18, 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.	Star App No.
	$\sigma$ <i>aph</i>	<sup>1935</sup> 17 23.2	+ 4 12	<u>Newtonian</u>	<i>Formo cut</i>			7 30		
1266	NGC 6779	<sup>171</sup> 19 12.7	+ 30 00	"	E 40		67°F	8 21	8 36	
1267	6402	17 32.4	- 03 11	"	Astra II			8 46	9 16	
1268	"	"	"	"	"			9 15	9 48	
1269	6264	16 51.9	- 03 57	"	E 40			9 51	10 01	
1270	6205	16 38.1	+ 36 39	"	E 40			10 07	10 12	
1271	6402	17 32.4	- 03 11	"	Astra II			10 23	10 40	
1272	6402	"	"	"	E 40			10 53	11 23	
1273	6781	20 48.0	- 12 55	"	Astra II			11 41	12 06	
1274	6934	20 29.3	+ 07 04	"	"			12 14	12 39	
1275	6779	19 12.7	30 00	"	"			12 45	1 05	
	KA 64	20 59	+ 30 10	"	"			1 18	1 33	
1276	6341	17 14.1	+ 43 15	"	E 40			1 44	1 54	
1277	6205	16 38.1	+ 36 39	"	"			1 58	2 08	
1278	6934	20 29.3	+ 07 04	"	"			2 13	2 36	
1279	6779	19 12.7	+ 30 00	"	"			2 45	3 10	



Hour Angle  
End

Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp.	REMARKS
		Poor			Being evidently poor, missed somewhat significant.
1 12E		Very poor			Being blowing up
1 09W					Refracted out of plate before the plate. <sup>Exp also in this zone</sup>
1 40W					Developed 1266 + 1267 (2 plates)
2 34W					
3 00W					Could not reach good in upper
2 41W					Refracted out of plate. <sup>Refracted out of plate</sup>
3 26W					
0 43W					Guiding surface down from opening in platform. <sup>Developed 1268 - 1271 (4 plates)</sup>
1 35W					
3 20W	+32 01				Refracted out of star near 6934
3 07W	+30 00				
6 11W					
6 56W					
3 35N					Developed 5 plates.
5 04W					











Cloudy all afternoon; clearing! Partly cloudy at start.

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp.	REMARKS
	1 12 E	+30 02	Poor			Thick around horizon
	1 07 W					Increased on 5 of hr.
	3 40 W					
	2 14 W					
	2 20 W		Improving			Referred on 5 of hr. before the 4 hr.
	0 07 E		fair			
	4 00 W					
	3 55 W					Thickening. Very dark in south. west
	0 20 W		Good			thick in south
	2 00 W					
	6 06 W					Guide star lost in clouds.
	3 45 W					Guide star lost during the time
						ΔM.T.A. ΔS.T.A. ΔM.T. Watch ΔS.T. Watch Aug 19 <sup>d</sup> 12 <sup>h</sup> -03.5 +06.1 -07.0 +24.9





clouds most of day. Light shower 8<sup>00</sup> EST.  
 ...

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp.	REMARKS
	0 57 W	-02 14	1-0	6.8 +	B8	1/2 1/2 1/2 diff. in mag. faint - large at low altitude 11.5 40°
	0 15 W	+08 55	2	6.8 +	A0	1/2 1/2 1/2 " "
	1 25 W	+55 19	2-3		1/2 1/2 1/2 setting 3 " "	
	1 20 W		2-3		1/2 1/2 1/2 " 7	
3:	1 32 W	+61 46		6.78	A2	1/2 1/2 1/2 " "
				6.9	A3	1/2 setting 3 " " " " " "
	2.50 - 6.00				5/3	6 " " " " " "
						COMTA. COSTA. COMTICATA COST. III
	Aug 20 <sup>d</sup> 12 <sup>h</sup>	-38	+6.8	-7.6	+28.5	





Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp.	REMARKS										
					15/3	no filters										
		outside base				trans 26.17 (calculated)										
0 30 W	-02 14	1	6.8v	B <sub>0</sub>	1/2-1/2-1/2	S. limited clouds, not good										
0 14 E		1	6.8v	A <sub>0</sub>	1/2-1/2-1/2											
1 11 W	46 36		7.04	F <sub>5</sub>	1/2-1/2-1/2	hazy - p. 110										
						clouds. 1 min 2 <sup>00</sup>										
						<table border="0"> <tr> <td></td> <td><math>\Delta</math> M.T.A.</td> <td><math>\Delta</math> S.T.A.</td> <td><math>\Delta</math> M.T. West</td> <td><math>\Delta</math> S.T. W</td> </tr> <tr> <td>Aug 21</td> <td><sup>d</sup> 12<sup>h</sup> -03.9</td> <td>+11.4</td> <td>-07.7</td> <td>+33.9</td> </tr> </table>		$\Delta$ M.T.A.	$\Delta$ S.T.A.	$\Delta$ M.T. West	$\Delta$ S.T. W	Aug 21	<sup>d</sup> 12 <sup>h</sup> -03.9	+11.4	-07.7	+33.9
	$\Delta$ M.T.A.	$\Delta$ S.T.A.	$\Delta$ M.T. West	$\Delta$ S.T. W												
Aug 21	<sup>d</sup> 12 <sup>h</sup> -03.9	+11.4	-07.7	+33.9												
						<table border="0"> <tr> <td></td> <td><math>\Delta</math> M.T.A.</td> <td><math>\Delta</math> S.T.A.</td> <td><math>\Delta</math> M.T. West</td> <td><math>\Delta</math> S.T. W</td> </tr> <tr> <td>Aug 22</td> <td><sup>d</sup> 10<sup>h</sup> -04.0</td> <td>+42.3</td> <td>-08.3</td> <td>+39.3</td> </tr> </table>		$\Delta$ M.T.A.	$\Delta$ S.T.A.	$\Delta$ M.T. West	$\Delta$ S.T. W	Aug 22	<sup>d</sup> 10 <sup>h</sup> -04.0	+42.3	-08.3	+39.3
	$\Delta$ M.T.A.	$\Delta$ S.T.A.	$\Delta$ M.T. West	$\Delta$ S.T. W												
Aug 22	<sup>d</sup> 10 <sup>h</sup> -04.0	+42.3	-08.3	+39.3												





About 40 stars, about 100 stars  
 very faint stars in the

End Time L.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp.	REMARKS
		46 08	1	6.63	A. 1.12, 1.1	Very faint in south well filtered.
		46 35	2	7.39	A. 1.12, 1.1	Very faint in south well filtered. 115.











Exposure Time  
E.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp.	REMARKS											
22 W	45 47	2	7.21 A0 1/2, 1/2, 1/2		some cloud clearing exposure exposure delayed because of clouds. took N and off with blue star clouds thick just after exposure started											
			6.77 B8 1/2													
					closed dome at 10:15 for heavy rain remained thick with plenty of lightning											
					Set out at 12:00											
					<table border="0"> <tr> <td></td> <td>DO.M.T.A.</td> <td>DO.S.T.A.</td> <td>DO.M.T.W.</td> <td>DO.S.T.W.</td> </tr> <tr> <td>Aug 25</td> <td>13<sup>h</sup></td> <td>-04.2</td> <td>+44.6</td> <td>-07.7</td> <td>+54.6</td> </tr> </table>		DO.M.T.A.	DO.S.T.A.	DO.M.T.W.	DO.S.T.W.	Aug 25	13 <sup>h</sup>	-04.2	+44.6	-07.7	+54.6
	DO.M.T.A.	DO.S.T.A.	DO.M.T.W.	DO.S.T.W.												
Aug 25	13 <sup>h</sup>	-04.2	+44.6	-07.7	+54.6											
					<table border="0"> <tr> <td></td> <td>DO.M.T.A.</td> <td>DO.S.T.A.</td> <td>DO.M.T.W.</td> <td>DO.S.T.W.</td> </tr> <tr> <td>Aug 26</td> <td>12<sup>h</sup></td> <td>-04.4</td> <td>+44.4</td> <td>-07.7</td> <td>+57.9</td> </tr> </table>		DO.M.T.A.	DO.S.T.A.	DO.M.T.W.	DO.S.T.W.	Aug 26	12 <sup>h</sup>	-04.4	+44.4	-07.7	+57.9
	DO.M.T.A.	DO.S.T.A.	DO.M.T.W.	DO.S.T.W.												
Aug 26	12 <sup>h</sup>	-04.4	+44.4	-07.7	+57.9											





Ending Time  
L.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp.	REMARKS
0 55 W	-2 14	1	6.8-7.1	B8 $1\frac{1}{2}, 1\frac{1}{2}, 1\frac{1}{2}$	Cloudy all day - cleared after sunset. image surrounded by at 11.50.
1 05 W	+56 38	2	9.0	- $1\frac{1}{2}, 1\frac{1}{2}, 1\frac{1}{2}$	spectrograph shifted? Heard faint clicks. spots 30000
0 06 W	+43 25	2	6.82	$1\frac{1}{2}, 1\frac{1}{2}, 1\frac{1}{2}$	1.45: image gone, clouds over all northern sky 3.00: completely clouded up; cloud.
	Base Behind			no filter +10	colony $3\frac{1}{2}$ .
					$\alpha$ L $\Delta$ MTA $\Delta$ P.T.A. $\Delta$ M.T.W $\Delta$ S.T.W Aug 27 12    -04.5    +44.2    -5.0    +64.4 Set. - +04.4





Ending Time  
E.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp.	REMARKS
				3/2	Apr 26.20
0 16 W	+12 57	2-1	6.54	B9	1/2 1/2 1/2
1 48 W	+12 10	2-1-0	6.88	B9	1/2 1/2 1/2 Light clouds over star 8 <sup>37</sup> 5 <sup>5</sup> being clear of. Stage
0 12 E	+08 53	1	6.84	A0	1/2 1/2 1/2
1 16 W	60 29	1	7.24	K2	1/2 1/2 1/2
0 37 W	59 42	1	7.41	F0	1/2 1/2 1/2
0 23 W	61 05	1-2	7.40	G5	1/2 1/2 1/2
1 40 W	61 27	1	7.43	A0	1/2 1/2 1/2
0 08 E	61 46	1	6.60	B8	1/2 1/2 1/2
<p>Start with guiding 1314. This is the 1st of the                      evening = first, second = not done.</p>					
<p>                     d h 20M.T.A. 20S.T.A. 20M.T.W. 20S.T.W                      Aug 28 12 -04.5 +46.1 -02.0 +09.1                      Aug 29 10 -04.5 +52.3 +00.5 +14.3                      0 31 12 -05.1 +31.2 +21.4 -04.3                 </p>					





Ending Time  
E.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp.	REMARKS
5 <sup>m</sup> E	44 39	2	7.00	A <sub>2</sub> 1/2-1/2-1/2	
1 <sup>h</sup> 00 W	31 56	2	7.18	A <sub>2</sub> 1/2-1/2-1/2	
7 <sup>m</sup> E	46 02	2	7.09	A <sub>2</sub> 1/2-1/2-1/2	
4 <sup>5</sup> m W	16 13	2-1	7.02	F <sub>0</sub> 1/2-1/2-1/2	clouds at end
0 12 W	30 58	2-1	7.12	F <sub>2</sub> 1/2 1/2 1/2	
				3/2	no filter - F <sub>2</sub> - 6.75 - 2.3 - 3
0 00	29 06	2-1	7.0	A <sub>3</sub> 1/2 1/2 1/2	
0 05 W	31 53	2-1	7.2	G <sub>5</sub> 1/2 1/2 1/2	
0 07 E	46 36	2-1	6.75	G <sub>5</sub> 1/2 1/2 1/2	
0 53 E	13 44	2	6.75	F <sub>2</sub> 1/2 1/2 1/2	

Sept. 1     12     - 05.0     +47.7     +25.3     +15.4

Sept. 2     12     - 04.9     +47.5     +20.5     +28.3

Sept. 3     13     - 04.9     +47.0     +32.3     +22.8





Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp.	REMARKS
021	0 10 E	44 14	1	6.77	B8 2-1-2	northern component. Image very faint due to clouds and haze.
022	0 50 W	44 14	2	6.77	B8 1/2-1/2-1/2	south component. Still light overcast cloud.
023	0 48 W	43 44	2	7.58	A0 1/2-1/2-1/2	sky overcast.
024	0 53 W	43 05	2-1	7.64	A0 1/2 1/2 1/2	scattered clouds throughout sky.
025	0 08 E	29 32	2	7.43	B0 1/2 1/2 1/2	
026	1 00 W	43 50	2	7.25	A00 1/2 1/2 1/2	scattered clouds.

$\Delta$  M.T.A.  $\Delta$  S.T.A.  $\Delta$  P.M. used  $\Delta$  S. used

Sept. 04 13 -04.8 +46.4 +35.8 +25.6





Ending Time EAT	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp.	REMARKS																		
1 00 W		+16 38	1	7.38	K0 121212	20 min very irregular - improving.																		
1 28 W		+30 05	2	7.11	G0 121212	Very light haze - thickening																		
		+29 05 ✓		<del>7.47</del>	<del>K2 12</del>	Star looks far too faint. OK by chart. <sup>cross in HD 117376</sup> this is HD 117376																		
1 20 W		+29 24 ✓	3	7.47	K2 121212	→ location 195436. OK. Clouds much of time 10 min																		
		+32 38	2	7.17	G5 121212																			
1 22 W		+17 15	2-3	7.12	K5 121212																			
0 36 W		+33 14	2-3	7.08	K0 121212																			
0 55 W		+17 28	2-3	7.09	F0 121212	Light clouds falling in from north at 310 at 3:30 showed an encouraging sign of clearing about 4:00																		
						<table border="0"> <tr> <td></td> <td>C.T.</td> <td>Δθ M.T.A.</td> <td>Δθ S.T.A.</td> <td>Δθ M.T. actual</td> <td>Δθ S.T. watch</td> </tr> <tr> <td>Spt. 5</td> <td>10</td> <td>- 04.3</td> <td>+46.6</td> <td>-20.3</td> <td>+32.1</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td>Advanced 1<sup>m</sup></td> <td></td> </tr> </table>		C.T.	Δθ M.T.A.	Δθ S.T.A.	Δθ M.T. actual	Δθ S.T. watch	Spt. 5	10	- 04.3	+46.6	-20.3	+32.1					Advanced 1 <sup>m</sup>	
	C.T.	Δθ M.T.A.	Δθ S.T.A.	Δθ M.T. actual	Δθ S.T. watch																			
Spt. 5	10	- 04.3	+46.6	-20.3	+32.1																			
				Advanced 1 <sup>m</sup>																				





About 200 visitors - showed  $\beta$  Cygni  
 - Jupiter, Saturn, Moon with dia

222

Ending Time L.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp.	REMARKS															
1	25E	44 02	1	6.63	A2 $1\frac{1}{2}$ $1\frac{1}{2}$ $1\frac{1}{2}$																
0	46W	28 03	1-2	6.77	A2 $1\frac{1}{2}$ $1\frac{1}{2}$ $1\frac{1}{2}$																
1	08W	44 25	1	7.02	B9 $1\frac{1}{2}$ $1\frac{1}{2}$ $1\frac{1}{2}$																
0	12W	28 09	1-2	7.31	A0 $1\frac{1}{2}$ $1\frac{1}{2}$ $1\frac{1}{2}$	light slide 1.55 - 2.30 Image gone.															
0	31W	16 36	2	6.78	A0 $1\frac{1}{2}$ $1\frac{1}{2}$ $1\frac{1}{2}$																
0	56E	18 04	3	6.74	A0 $1\frac{1}{2}$ $1\frac{1}{2}$ $1\frac{1}{2}$	setting 3 no filter 0.12 setting 8															
						<table border="1"> <thead> <tr> <th>C.T.</th> <th><math>\Delta\theta</math>M.T.A.</th> <th><math>\Delta\theta</math>S.T.A.</th> <th><math>\Delta\theta</math> M.T. Watch</th> <th><math>\Delta\theta</math> S.T. Watch</th> </tr> </thead> <tbody> <tr> <td>Sept. 8</td> <td>12</td> <td>-03.8</td> <td>+45.3</td> <td>+05.0</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td>-12.7</td> </tr> </tbody> </table> <p>stopped and reset.</p>	C.T.	$\Delta\theta$ M.T.A.	$\Delta\theta$ S.T.A.	$\Delta\theta$ M.T. Watch	$\Delta\theta$ S.T. Watch	Sept. 8	12	-03.8	+45.3	+05.0					-12.7
C.T.	$\Delta\theta$ M.T.A.	$\Delta\theta$ S.T.A.	$\Delta\theta$ M.T. Watch	$\Delta\theta$ S.T. Watch																	
Sept. 8	12	-03.8	+45.3	+05.0																	
				-12.7																	





Timing Time  
E.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp.	REMARKS												
0 03 W	28 50	0	7.17 A <sub>0</sub>	1/2-1/2-1/2													
0 52 E	15 57	0-1	6.91 A <sub>0</sub>	1/2-1/2-1/2													
0 11 E	44 27	1	7.02 B <sub>9</sub>	1/2-1/2-1/2													
0 49 W	32 09	0-1	6.87 B <sub>9</sub>	1/2-1/2-1/2													
0 52 W	44 54	1	6.57 A <sub>0</sub>	1/2-1/2-1/2													
1 20 W	29 12	1-0	7.44 A <sub>2</sub>	1/2-1/2-1/2	Difficulty in guiding this plate.												
	12 31	0	6.20 A <sub>0</sub>	1/2-1/2-1/2													
					<table border="0"> <tr> <td></td> <td></td> <td><math>\Delta</math> G.M.T.A.</td> <td><math>\Delta</math> S.T.A.</td> <td><math>\Delta</math> M.Watch</td> <td><math>\Delta</math> S.Watch</td> </tr> <tr> <td>Sept. 9</td> <td>12</td> <td>-05.5</td> <td>+49.0</td> <td>+07.2</td> <td>-09.0</td> </tr> </table>			$\Delta$ G.M.T.A.	$\Delta$ S.T.A.	$\Delta$ M.Watch	$\Delta$ S.Watch	Sept. 9	12	-05.5	+49.0	+07.2	-09.0
		$\Delta$ G.M.T.A.	$\Delta$ S.T.A.	$\Delta$ M.Watch	$\Delta$ S.Watch												
Sept. 9	12	-05.5	+49.0	+07.2	-09.0												
					Note: M.T. clock now jogs on 2 <sup>s</sup> after 0 <sup>m</sup> and 30 <sup>m</sup>												
					<table border="0"> <tr> <td>Sept</td> <td>10</td> <td>12</td> <td>-05.3</td> <td>+52.9</td> <td>+09.7</td> <td>-04.9</td> </tr> </table>	Sept	10	12	-05.3	+52.9	+09.7	-04.9					
Sept	10	12	-05.3	+52.9	+09.7	-04.9											







Date Sunday, Sept 13-14, 1936 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
1358	HD 158 485	17 24.5	+58 44	I-12	Ast. II	set 0.10	19.5	7 13	8 03	1
1359	206 155	21 35.1	+09 44	"	"	"	19.6	8 09	9 29	2
1360	197 665	20 40.1	+76 29	"	"	"	19.5	9 35	11 05	3
1361	203 574	21 18.0	+60 21	"	"	"	19.5	11 08	12 18	4
1362	222 386	23 35.0	+74 43	"	"	"	19.6	12 22	12 52	1
1363	222 387	23 35.0	+73 25	"	"	"	19.5	12 56	1 -	2
1364	224 098	23 56.6	+73 51	"	"	"	19.5	1 45	2 30	3
1365	6475	01 00.7	+59 20	"	"	"	19.6	2 36	3 36	7
1366	19536	03 03.5	+60 15	"	"	"	19.6	4 03	5 15	1
	Focus Test							Base thin & light		



Ending Time P.M.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp.	REMARKS
1	52 W	+58 43	2-1	6.58	A2	1 1/2 1/2
0	54 E	+08 54	1-2	6.8-7.5	A0	1 1/2 1/2 1/2
1	40 W	+76 28	1-2	7.41	F2	1 1/2 1/2
2	14 W	+60 30	1-2	7.24	A0	1 1/2 1/2
0	30 W	+74 56	2	6.10	A2	1 1/2 1/2
1	19 W	+73 28	2-1	6.96	F5	1 1/2 1/2
1	53 W	+74 03	1	6.55	B9	1 1/2 1/2
1	48 W	+59 32	1	6.78	A0	1 1/2 1/2
1	24 W	+60 23	1	7.26	A0	1 1/2 1/2
						no filter 3 1/2
						Sept 3
						" 7
						$\Delta\theta M.T.A.$ $\Delta\theta S.T.A.$ $\Delta\theta M.Watel$ $\Delta\theta S.Watel$ Sept 14   12   -05.1   +1 16.2   +18.1   +08.5 Sept 15   12   -05.0   +1 42.9   +20.2   +12.1

229

Date <sup>1936</sup> Tuesday Sept 15-16, M-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.	
1367	H.D. 187613N	19 45.8	44 07	I-12	Actual	.010	24.3	7 50	9 22	2
1368	194211	20 19.3	15 43	-	-	-	24.5	9 27	10 17	3
-1369	22 1700	23 29.3	07 22	-	-	.025 <sub>m</sub>	24.3	10 50	1 20	4
1370	7374	01 08.8	15 36	"	"	.010	23.5	1 39	2 14	1
<del>1371</del>	<del>17831</del>	<del>07 47.3</del>	<del>46 44</del>	<del>"</del>	<del>"</del>	<del>"</del>	<del>23.4</del>	<del>2 20</del>		



Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp.	REMARKS
0 57W	44 15	2	(7.5)	B8 1/2, 1/2, 1/2	Late starting as Dec & quirk motor refused to work. Found relay sticking.
1 18W	15 57	2	6.68	B9 1/2, 1/2, 1/2	Relay still sticking. Clouds obscured image as about to start the exposure. Clouds general for 30 min.
112W	7 35	2-3	9.2	A2 1, 1, 1	Spots v30.2. clouds 11 to 11:15, generally cloudy.
026W	15 49	1	5.80	B8 1/2-1/2-1/2	wind increasing, seeing becoming unsettled.
<del>46 55</del>	<del>1-2</del>	<del>1-2</del>	<del>6.71</del>	<del>B9 1/2</del>	general sky much improved at 1.35. sky clouding once again at 2.30 Closed up at 2.45

	$\Delta$ M.T.A.	$\Delta$ S.T.A.	$\Delta$ M.Watch	$\Delta$ S.Watch
Sept 16	12 - 05.0	+ 1 44.4	+ 22.0	+ 34.6

281

1936

Date

Wed Sept 16-17

Hd-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.	
1371	H 22009	23 15.9	16 43	L-12	Eastman II	0.0	17.6	11 10	12 04	
- 1372	H 17 5394 (X Cam)	00 40.7	60 11	"	Purves	"	17.4	12 10	12 12	1
								12 13	12 17	
								12 18	12 26	
1373	H D 2628	00 24.8	29 12	"	Eastman II	"	17.8	12 31	12 54	4
1374	" 3546	00 33.3	28 46	"	"	"	17.8	12 57	1 15	1
1375	15227	02 22.1	16 12	"	"	"	17.6	1 22	3 00	2
1376	23728	03 42.3	43 39	"	"	"	17.7	3 05	3 40	2
1377	33266	06 03.9	61 44	"	"	"	17.7	3 53	4 25	4
1378	35607	05 20.9	60 11	"	"	"	17.7	4 29	5 15	2



Hour Angle and	Declination	Seeing	Ptg. Mag.	Comp.	REMARKS
1 12 <sup>m</sup>	16 55	0	5.53	F <sub>0</sub>	1 1/2 1 1/2
	60 22	0	2.25	B <sub>0</sub>	6, 6 setting 1
					6, 6 " 5 5/10 to 5 <sup>m</sup>
					6, 6 - 9
2 1 <sup>00</sup>					
2 7 <sup>m</sup>	29 23	0	5.54	F <sub>0</sub>	1 1/2 1 1/2
0 06W	28 58	0	5.30	F <sub>5</sub>	1 1/2 1 1/2
0 02W	16 23	0	7.54	F <sub>0</sub>	1 1/2 1 1/2
0 38E	43 46	0	6.14	F <sub>0</sub>	1 1/2 1 1/2
1 15E	61 47	0	5.99	A <sub>0</sub>	1 1/2 1 1/2
0 42E	60 12	0	6.85	A <sub>0</sub>	1 1/2 1 1/2
					<div style="display: flex; justify-content: space-between;"> <span>Sept 17 - 12</span> <span>ΔOM.T.A. - 04.8</span> <span>Δθ S.T.A. + 4 40.6</span> <span>Δθ M. water + 23.7</span> <span>Δθ S. water + 51.8</span> </div>





Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp.	REMARKS
1 09 W	44 14	1-0	(7.5)	B8 1/2 1/2 1/2	well component, clouds general at low altitude
1 45 W	46 31	1	7.28	B9 1/2 1/2 1/2	
0 36 W	46 52	1	6.40	B9 1/2 1/2 1/2	
1 02 E	33 03	1	7.56	A2 1/2 1/2 1/2	
0 25 E	16 22	1	7.50	B9 1/2 1/2 1/2	
1 20 E	17 12	1	6.80	B4 1/2 1/2 1/2	+21.0
					Sept. 18 12 -04.2 +3 39.0 +25.0 +21.0
on track	level			no film	setting 1 Focus 23.2
				6/4	setting 6 23.4
				6/4	" 9 23.5
					best Focus 23.35





Ending Time  
E.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp.	REMARKS
W 2 <sup>h</sup> 17	51 55	4	7.18	A <sub>3</sub> 3,3,3	shots 400. for 75 P.
W 1 <sup>h</sup> 53	45 27	2	7.30	G <sub>0</sub> 3,3,3	" " " 75 P
	60 22	3	2.01	B <sub>p</sub> 12,12	setting 1
				12,12	shots 5 min
				12	setting 9
1 17 W	46 48	2	7.00	B <sub>g</sub> 3,3,3	shots 400
0 26 W	13 43	2	6.48	T <sub>2</sub> 3,3,3	" " " 75 P

Δθ M.T.A.    Δθ S.T.A.    Δθ M. watch    Δθ S. watch  
 Sept 19    10    -04.1    +5 14.8    +26.9    +02.3  
 Advanced  
 1<sup>m</sup>

237

Date Saturday Sept 19-20, 1936 H.M.T. 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
1389 F <sub>1</sub>	Focus test			I-12	Astra II	010	17.8	4 <sup>00</sup>		3
-1390	HD 206155	21 35.1	+68 44	I-12	Astra II	010	18.9	9 30	10 40	1
1391	210461	22 05.5	+14 07	"	"	"	19.1	10 43	11 43	2
1392	221671	23 29.0	+59 29	"	"	"	19.0	11 47	1 07	3
1393	5459	00 51.3	+60 53	"	"	"	19.0	1 12	2 12	4
1394	10086	01 33.5	+45 23	"	"	"	18.8	2 33	3 33	1
1395	20536	03 13.1	-61 35	"	"	"	19.2	3 47	4 27	2
1396	29329	04 32.1	+76 25	"	"	"	19.2	4 32	5 28	5



Ending Time  
E.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp.	setting	hours	REMARKS
				no follow 5/3	2 6 8	26.20 26.30 26.10	tilt 19.5 marked Sept 1958 But 26.27 approx 11.00 J. white, Saturn with 4" about 60 visitors. Shred E. zone, V536933 with 74"
0 42 W	+08 55	3-4	6.8-7.5	A0 1 1/2, 1 1/2			looks rather faint!
1 14 W	+14 20	3	7.41	K0 1 1/2, 1 1/2			
1 15 W	+59 42	3-2	7.41	A0 1 1/2, 1 1/2			some haze
0 57 W	+61 05	2	7.40	F5 1 1/2, 1 1/2, 1 1/2			Some going.
1 46 W	+45 35	2-1	7.41	F5 1 1/2, 1 1/2, 1 1/2			Some streaks - wide by present time - large etc.
0 50 W	+61 46	2	6.66	OF 1 1/2, 1 1/2			
0 50 W	+76 30	2	5.93	F0 1 1/2, 1 1/2			split in 2

















Ending Time  
E.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp.	REMARKS
				<sup>15</sup> 9	focus O.K.
1 47W	15 37	2-3	7.38	B9 $\frac{1}{2}$ $\frac{1}{2}$ $\frac{1}{2}$	
1 37W	33 45	3	8.7	A $\frac{1}{2}$ $\frac{1}{2}$ $\frac{1}{2}$	light clouds occasionally covering image, at 8:00, spots 30a
1 35W	7 35	3	9.3	Az $\frac{1}{2}$ $\frac{1}{2}$ $\frac{1}{2}$	spots 30a. haze appearing in North and East, light clouds above image occasionally
1 10W	59 48	1-2	7.34	B5 $\frac{1}{2}$ $\frac{1}{2}$ $\frac{1}{2}$	Failed to get 15473 but was not sure of star image
0 53W	18 04	2	6.74	A0 $\frac{1}{2}$ $\frac{1}{2}$ $\frac{1}{2}$	is confusing. Blue flare on star setting and guiding motions; some time elapsed before getting under way and more. Slight hazy image from 14:00, seeing not so good.
					Spt. 23 12 -03.9 + 5 32.3 + 36.1 -11.5





Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp.	REMARKS																		
8:00	W 26 <sup>m</sup>	-02 15	2	68-7.1	B <sub>8</sub> 1 <sup>1</sup> / <sub>2</sub> , 1 <sup>1</sup> / <sub>2</sub> , 1 <sup>1</sup> / <sub>2</sub>	(Note wide slit.) Closing in from start Thick at 300. Cloud.																		
						<table border="0"> <tr> <td></td> <td></td> <td><math>\Delta \theta</math> M.T.A.</td> <td><math>\Delta \theta</math> S.T.A.</td> <td><math>\Delta \theta</math> M.Watch</td> <td><math>\Delta \theta</math> S.Watch</td> </tr> <tr> <td>Sept. 24</td> <td>12</td> <td>-04.0</td> <td>+05 32.3</td> <td>+38.0</td> <td>-09.0</td> </tr> <tr> <td>Sept. 25</td> <td>12</td> <td>-04.0</td> <td>+05 34.1</td> <td>+38.2</td> <td>-07.2</td> </tr> </table>			$\Delta \theta$ M.T.A.	$\Delta \theta$ S.T.A.	$\Delta \theta$ M.Watch	$\Delta \theta$ S.Watch	Sept. 24	12	-04.0	+05 32.3	+38.0	-09.0	Sept. 25	12	-04.0	+05 34.1	+38.2	-07.2
		$\Delta \theta$ M.T.A.	$\Delta \theta$ S.T.A.	$\Delta \theta$ M.Watch	$\Delta \theta$ S.Watch																			
Sept. 24	12	-04.0	+05 32.3	+38.0	-09.0																			
Sept. 25	12	-04.0	+05 34.1	+38.2	-07.2																			

247

1936

Date Friday Sept 25-26 Hd-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	Dec
- 1415	<i>Novae Aquilae 1936</i> Fours	19 12.2	01 32	I-12	Astron II	015	12.5	6 58	8 42	2	130
- 1416	<i>Novae Lac</i>	22 13.2	55 20	"	"	010	12.8	8 55	10 55	3	144
1417	47 222900	23 39.6	45 49	"	"	010	12.5	10 55	11 25	4	114
1418	" 9709	01 30.0	46 36	"	"	"	12.5	11 30	1 10	1	31 W
1419	" 27579	04 16.1	13 21	"	"	"	12.8	1 16	2 26	1	56 W
1420	" 36756	05 28.9	44 15	"	"	"	12.7	2 31	3 55	2	20 E
								3 59	5 25	3	104 E
Saturday Sept 26-27. M - MR											



Ending Time EST.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp.	REMARKS															
427	W 130	01 38	2.	(81)	$\frac{1}{2} \frac{1}{2} \frac{1}{2}$ (set 40 <sup>s</sup> )	1 <sup>h</sup> 30 = almost limit W. base outside 10/7															
55	W 44 <sup>m</sup>	55 20	1	(8)	$\frac{1}{2} \frac{1}{2} \frac{1}{2}$	setting 3   set 40 <sup>s</sup>															
	W 114		1		$\frac{1}{2} \frac{1}{2} \frac{1}{2}$	" 8															
	1 31 W	46 03	1	7.48 A <sub>0</sub>	$\frac{1}{2} \frac{1}{2} \frac{1}{2}$	Companion about 4" away = " distant?															
	0 56 W	46 48	1	7.00 B <sub>4</sub>	$\frac{1}{2} \frac{1}{2} \frac{1}{2}$																
	0 20 E	13 26	1-2	7.48 A <sub>-</sub>	$\frac{1}{2} \frac{1}{2} \frac{1}{2}$																
	0 04 E	44 17	1-2	7.59 F <sub>5</sub>	$\frac{1}{2} \frac{1}{2} \frac{1}{2}$	Flaring up at 450 image faint															
						<table border="1"> <thead> <tr> <th></th> <th></th> <th></th> <th>N watch</th> <th>S watch</th> </tr> </thead> <tbody> <tr> <td>Sept. 26</td> <td>10</td> <td>-03.8</td> <td>+05 35.4</td> <td>+41.7 -01.4</td> </tr> <tr> <td>Sept. 28</td> <td>12</td> <td>-03.3</td> <td>+05 33.6</td> <td>+08.7 -21.8</td> </tr> </tbody> </table>				N watch	S watch	Sept. 26	10	-03.8	+05 35.4	+41.7 -01.4	Sept. 28	12	-03.3	+05 33.6	+08.7 -21.8
			N watch	S watch																	
Sept. 26	10	-03.8	+05 35.4	+41.7 -01.4																	
Sept. 28	12	-03.3	+05 33.6	+08.7 -21.8																	
						Stopped + reset.															
						about 20 visitors															
						- clouds															
						Did not show moon															
						M 3															
						M 21															





Ending Time  
E.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp.	REMARKS
1 45W	+01 36	0	(8)	Q 1, 1, 1	Some haze. Seeing very bad - image about twice length of slit <sup>at slit</sup>
0 47W	+08 54	0	6.9V	F0 1/2, 1/2, 1/2 or full 5/3	Sept 40 <sup>s</sup> m. 1421, 1422
0 32W	+40 14	1	6.15	B1 1/2, 1/2	Sept 40 <sup>s</sup> m.
1 16W	+45 24	1-0-1	6.50	B2 1/2, 1/2, 1/2	Sept 40 <sup>s</sup> m. 1421, 1422
1 22W	+32 36		7.15	K5 1/2, 1/2	
0 49W	+22 48	1	7.13	G0 1/2, 1/2, 1/2	
1 09W	+46 36	1	7.41	F5 1/2, 1/2, 1/2	
1 38W	231 29	1	7.11	F0 1/2, 1/2, 1/2	Light drizzle rolling in from W. about at 7:00
0 21W	127 54	0	6.28	B1 1/2, 1/2, 1/2	

M watch      S watch

Sept. 29 13 -03.1 +5 32.5 +13.9 +16.5





Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp.	REMARKS
1 43W	+1 37	1	(8)	Q 1 1/2, 1 1/2	Sept 30 or 1430 finder, had to off centre. took long time to find star. some softening from slipping of the pushed in some delays. worked 2.0
1 39W	44 54	1	7.40	B9 1 1/2, 1 1/2	
3 07W	45 15	1	7.47	A0 1 1/2, 1 1/2	
2 18W	43 53	1	7.33	A3 1 1/2, 1 1/2	
0 14E	59 26	1	7.35	A0 1 1/2, 1 1/2	Set on brighter component.
1 05E	28 25	1	7.44	A3 1 1/2, 1 1/2	
0 03W	44 00	1	7.51	A2 1 1/2, 1 1/2	
					<div style="text-align: right;">Δθ M watch Δθ S watch</div> Sept. 30/ 12 -03.8 +5 31.3 +08.2 +23.8 Oct. 1 12 -02.9 +5 32.0 +21.3 +30.2











Ending Time  
E.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp.	REMARKS
0 11W	+15 54	3	7.46 B9	$K \frac{1}{2}, K \frac{1}{2}$	cloud blowing across from NW to SE
				$\frac{12}{8}$	
		2	7.37 A0	$K \frac{1}{2}, K \frac{1}{2}$	
1 13W	28 58	2-1	7.50 A2	$K \frac{1}{2}, K \frac{1}{2}, K \frac{1}{2}$	
1 15W	63 45	2	9.1	- 1, 1, 1	spiky 30 sec.
0 15W	46 55	1-2	6.71 B9	$K \frac{1}{2}, K \frac{1}{2}, K \frac{1}{2}$	
0 10W	16 29	1	6.97 B8	$K \frac{1}{2}, K \frac{1}{2}, K \frac{1}{2}$	
0 12W	15 59	1	6.87 B8	$K \frac{1}{2}, K \frac{1}{2}, K \frac{1}{2}$	
0 14E	14 05	1	6.46 B9	$K \frac{1}{2}, K \frac{1}{2}, K \frac{1}{2}$	

Oct. 3 12 -02.3 +05 31.5 +30.7 +46.6  
*M. Watch Swatch*











Ending Time L.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp.	REMARKS
1 43 W	+01 37	1	(8)	Q	1-1-1	7th and 8th. Clouds in region at start. Very muddy
1 24 W	+29 24	1	7.47	K2	1 1/2 1 1/2	<u>N.B.</u> Temp had risen to 24.5 at close. Staff off. Point 32
1 29 E	+17 16	2	7.12	K5	1 1/2 1 1/2	
			7.40	F5		
						M. Watch S. Watch
						Oct. 6 12 - 01.8 +31.2 -05.3 +04.6
						7 12 - 01.5 +31.0 -01.7 +11.0 Advanced m
						Heavy electrical storm in SW + S all morning. Clouds over 9 <sup>th</sup> cloud distant for part of morning.

261

1936

Date Wednesday Oct 7-8 Ad-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
1457	HD 200102	20 56.3	44 36	Z-12	Eastman II	010	16.5	7.12	7.32	4
1458	Focus HD 212442	22 19.2	14 46	"	"	010	16.5	8.40	9.34	"
1459	HD 219110	23 08.3	28 54	"	"	010	16.6	9.40	10.50	5
1460	HD 2453	21 23.2	31 53	"	"	010	16.6	10.54	11.47	5
1461	HD 2628	02 24.8	29 12	"	"	010	16.5	11.50	12.10	5
1462	HD 5394	00 00.7	60 11	"	Eastman	010	16.7	12.15	12.17	1
	(X 60)							12.18	12.22	
								12.23	12.31	
1463	HD 15227	02 22.1	16 12	"	Eastman II	010	16.7	12.36	2.00	4
1464	HD 22963	03 36.1	32 38	"	"	"	16.7	2.24	3.10	1
1465	HD 33336	05 04.5	13 25	"	"	"	16.5	3.16	4.16	5
1466	HD 44867	16 19.1	16 07	"	"	"	16.4	4.21	5.30	4



Cloudy all day clearing rapidly at sunset. 262

Ending Time EST.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp.	REMARKS
W 22 <sup>m</sup>	44 46	2	7.57	G <sub>5</sub>	1 1/2 1 1/2 1 1/2	
	near outside				3/6	
W 1 <sup>m</sup>	14 59	2	6.73	H <sub>0</sub>	1 1/2 1 1/2 1 1/2	
W 29 <sup>m</sup>	29 07	3	7.34	K <sub>0</sub>	1 1/2 1 1/2 1 1/2	
W 12 <sup>m</sup>	72 07	2	6.71	H <sub>0</sub> P	1 1/2 1 1/2 1 1/2	
W 32 <sup>m</sup>	29 25	2	5.54	F <sub>0</sub>	1 1/2 1 1/2 1 1/2	
			2.01	Pop	6, 6	with 1
					6, 6	" 5
					6, 6	" 9
W 27 <sup>m</sup>						Aurora
O 25 W	16 23	2	7.54	F <sub>0</sub>	1 1/2 1 1/2 1 1/2	
O 21 W	32 46	2	7.17	F <sub>3</sub>	1 1/2 1 1/2 1 1/2	
O 01 E	13 29	2	7.07	F <sub>2</sub>	1 1/2 1 1/2 1 1/2	
O 02 E	16 07	2	7.13	G <sub>5</sub>	1 1/2 1 1/2 1 1/2	
						Heavy dew all night dropping from shutters onto photographic plate
						Oct. 8 12 -01.3 +33.9 +02.8 +20.1











Ending Time  
E.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp.	REMARKS
					Partly cloudy all day. Mostly clear 6 on.
	+01 37		[8] a		Clouded up solid night at start.
started this time				no filter 1/3	sunlight (did not fully clear) brown a bit dark set to 22.31
					cloud up 10 <sup>00</sup> still solid.
					Oct. 13. 12 - 01.0 + 28.4 + 25.0 + 50.8





Ending Time L.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp.
11 47	1 02 W	30 45	1-0	6.52 A0	$\frac{1}{2}, \frac{1}{2}, \frac{1}{2}$
12 00	0 52 W	31 03	1	6.78 B9	$\frac{1}{2}, \frac{1}{2}, \frac{1}{2}$
12 43	1 09 W	47 08	2	7.09 B8	$\frac{1}{2}, \frac{1}{2}, \frac{1}{2}$
			2	7.40 B9	$\frac{1}{2}$

REMARKS  
 Cloudy all day - sky partly well mixed with clouds  
 in early evening. Started to clear definitively from  
 N about 9:00 pm. Still clear in S  
 heavy clouds delayed setting.  
 sky generally quite haze  
 falling in. hopelessly stuck at 2.31  
 no sign of clearing so closed up at 2.44

			M Watch	S Watch
October 14	12	-00.3	+28.8	+30.5
	15	-00.1	+29.0	+0.3
				Advanced 1 m. +060

1936

Date Thursday October 15-16 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
1477	ND 208280	21 360	+43 59	7-12	Astrin II	010	14.0	8 16	9 21	3
1478	216311	22 484	+56 01	"	"	"	14.2	9 29	10 19	4
1479	223102	23 160	+59 44	"	"	"	14.1	10 25	11 25	1
1480	4817	00 46.2	+61 14	"	"	"	14.2	11 29	12 39	2
1481	19534	03 335	+60 15	"	"	"	13.6!	12 46	2 06	3
<del>1482</del>	<del>20536</del>	<del>03 13.1</del>	<del>+61 38</del>	<del>"</del>	<del>"</del>	<del>"</del>	<del>15.4</del>	<del>2 11</del>		<del>4</del>
Sat Oct 17-18 M-MR										
6 visitors showed observatory.										



clouds west of days; clearing slowly but during days  
 left. Pure + clear mostly with at times patches  
 of light rain on west side.

all night

Ending Time  
E.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp.	REMARKS
1 09 W	+44 07	1-2	6.68	B9 1/2 - 1/2	Clear
0 50 W	+42 11	2	6.67	B9 1/2 1/2	Foggy and thin
1 29 W	+59 56	3-4	7.00	F2 3/4 1/2	Light fog
1 12 W	+61 28	3	7.43	K2 1/2 1/2	
0 21 W	+60 25	3	7.21	B9 1/2 1/2	Note! checked alt at beginning of obs incorrect at read .015! set to h 2.00 Star appears to be gradually getting fainter on 14th, especially around 14h the same to be fogged. Long take down and show off mirror with clear then close telescope and applied the lens. Closed up at 3:30. Extremely heavy fog in low lying section of surrounding country.
	+61 47	3	6.60	B9 1/2	

Oct.	16	17	18	19	H. Watch	S. Watch
					+00.2	+28.9
					+33.7	+11.9
					+00.2	+28.8
					+36.8	+18.9





Ending Time  
L.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp.	REMARKS
0 30 W	+32 38	1	6.71	F5	1/2-1/2-1/2 Oct. 19 12 0.2 +28.4 -02.8 +31.9
1 31 W	+61 47	1	6.60	B3	1/2-1/2-1/2 Temperature had run up. Reset at 11:00
0 11 W	+65 60	1	6.54	F5	1/2-1/2-1/2 and tried to get temperature to drop by opening door. Although heat was shut off it continued to rise. Air in dome was apparently warmer than inside of spectrograph. Shy filling in at 3:00 at 3:30
					M Watch S Watch Oct. 20 12 +00.2 +28.3 +00.7 +38.3





Ending Time  
E.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp.	REMARKS																														
					Cloudy at sunset. I note meteor clouds for first part of evening. Skewed R.A. & C. first $\beta$ Cygni second Saturn.																														
40W	44 31	1	7.43	B8 $1\frac{1}{2}$ $1\frac{1}{2}$	first high wind, evening shows a lot of water. closed up as Hydro started to turn power off at 1:10.																														
					<table border="0"> <thead> <tr> <th></th> <th></th> <th></th> <th></th> <th>M Watch</th> <th>S Watch</th> </tr> </thead> <tbody> <tr> <td>Oct. 21</td> <td>12</td> <td>+00.3</td> <td>+28.5</td> <td>+03.7</td> <td>+45.9</td> </tr> <tr> <td>Oct. 22</td> <td>12</td> <td>+00.5</td> <td>+28.4</td> <td>+06.5</td> <td>-06.4</td> </tr> <tr> <td>Oct. 23</td> <td>12</td> <td>+00.6</td> <td>+28.3</td> <td>+10.5</td> <td>Advanced 1 m.</td> </tr> <tr> <td>Oct. 24</td> <td>10</td> <td>+00.8</td> <td>+28.4</td> <td>+09.5</td> <td>+08.6</td> </tr> </tbody> </table>					M Watch	S Watch	Oct. 21	12	+00.3	+28.5	+03.7	+45.9	Oct. 22	12	+00.5	+28.4	+06.5	-06.4	Oct. 23	12	+00.6	+28.3	+10.5	Advanced 1 m.	Oct. 24	10	+00.8	+28.4	+09.5	+08.6
				M Watch	S Watch																														
Oct. 21	12	+00.3	+28.5	+03.7	+45.9																														
Oct. 22	12	+00.5	+28.4	+06.5	-06.4																														
Oct. 23	12	+00.6	+28.3	+10.5	Advanced 1 m.																														
Oct. 24	10	+00.8	+28.4	+09.5	+08.6																														

275

1936

Date Sat Oct 24-25 Hal MR Julian Day .....

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Shft	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
1486	HD 9709	01 30.0	46 36	I 12	Antares II	010	8.0	10 40	11 42	2 00 W 4
1487	HD 15227	02 02.4	16 12	"	"	"	7.5	11 51	1 43	1 15 W 1
1488	" 26911	04 10.4	15 09	"	"	"	8.3	1 47	2 43	3 28 W 1
1489	" 33266	05 03.9	61 44	"	"	"	7.6	2 50	3 16	4 05 W 6
+ 1490	" 43947	06 13.9	16 03	"	"	"	7.0	3 21	4 17	3 03 E
+ 1491	" 45506	06 22.7	16 19	"	"	"	6.6	4 20	4 58	4 30 W
	Focus Test			"	"	"				



100 + visitors : <sup>276</sup> viewed 74" and showed moon. Saturn with 4 1/4".

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp.	REMARKS
1:42	0 06 W	46 48	3	7.00	B9 1 1/2 1 1/2 1 1/2	spots 40 S.
1:43	1 15 W	16 22	3	7.54	F0 1 1/2 1 1/2 1 1/2	clouds.
2:03	28 W	15 15	4	6.77	F5 1 1/2 1 1/2 1 1/2	"
3:00	05 W	61 47	4	5.99	A0 1 1/2 1 1/2 1 1/2	"
4:00	03 E	16 03	4	7.09	G0 1 1/2 1 1/2 1 1/2	"
4:50	30 W	16 18	-	7.11	G5 1 1/2 3	Practically thick from 4:15. Closed 5:00
		outside this base.			12/8.	setting 1 (setting 10 spoiled)
						Focus 26.33 Tilt 19.5
						Oct. 26 12 +01.2 +27.9 M. axial S axial +15.6 +23.2

















Ending Time LST.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp.	REMARKS																								
						cloud and rain at sunset. cleared very rapidly shortly after 6.00. Clouded in again from NW before exposure could be started. closed dome but left heat on in specting off.																								
						Rain squalls blowing up at 10.00. closed up - left heat on around mirror.																								
						Began to clear again at midnight. opened up at 12.30																								
0	14W	43 54	1	7.05 B9	1 1/2, 1 1/2	Large bank of clouds rising suddenly from NW. sun gone at 1.40. Clouds scattered started to rain very lightly. Rained till 3.00 and cleared up.																								
						<table border="0" style="width: 100%;"> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td style="text-align: right;">N Watch</td> <td style="text-align: right;">S Watch</td> </tr> <tr> <td>Oct. 30</td> <td>12</td> <td>+02.9</td> <td>+27.4</td> <td>-19.1</td> <td>+00.2</td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td colspan="2" style="text-align: center;">Rest.</td> </tr> </table>							N Watch	S Watch	Oct. 30	12	+02.9	+27.4	-19.1	+00.2									Rest.	
						N Watch	S Watch																							
Oct. 30	12	+02.9	+27.4	-19.1	+00.2																									
						Rest.																								











Clouds late afternoon. Clearing at sunset.

Ending Time EST.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp.	REMARKS
	(5 22W)	+36 37	1-2	6.86	K5 1 1/2 1 1/2	2 minutes cutting off some small spots of light
	1 33W	+60 26	1	7.16	F5 1 1/2 1 1/2	Jump ran up to 12.5 during last half of 1512. Delaying sunset very much.
	0 45W	+59 56	1	7.00	F2 1 1/2 1 1/2	
	1 20W	+61 47	1	6.78	A2 1 1/2 1 1/2	
	1 45W	+65 05	1-2	7.40	G5 1 1/2 1 1/2	Clouds forming in region 10 <sup>30</sup> - 11 <sup>50</sup> - 12 <sup>15</sup>
	1 17W	+66 46		6.22	F0 1 1/2 1 1/2	They began up. Clear at 12:30 closed up at 1:50 to up after hearing
						Nov. 6. 12 +05.2 +25.0 -01.3 +42.2
						Should be better to talk in relay circuit. Adjusted manually through
						Set at 30° - 4/6/65
						Friday Nov 6 - Thermostat OK H-L.

287

1936

Date Friday Nov 6-7 Ad-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.	
1518	HD 205939	21 33.6	44 14	I-12	Q <sub>Tu</sub> II	010	5.5	6 19	6 57	4
1519	" 212442	22 19.2	14 46	"	"	"	5.8	7 01	7 55	3
1520	" 220091	23 15.9	16 43	"	"	"	5.5	7 59	8 43	1
1521	" 224115	23 24.1	12 24 <sup>13</sup>	"	"	"	5.5	8 49	9 03	2
- 1522	γ Cen HD 5394	00 50.7	60 "	"	Process	"	"	9 12	9 17	5
								9 15	9 17	
								9 20	9 25	
1523	HD 9909	01 30.0	46 36	"	Astra IX	"	5.8	9 38	10 42	4
1524	" 14688	02 17.1	16 25	"	Astra II	"	5.8	10 47	11 37	1
1525	" 22418	03 31.3	30 48	"	"	"	5.8	11 47 <del>11 41</del>	12 51	3
1526	" 23728	03 42.3	43 39	"	"	"	5.8	1 32	2 32	4



mostly at sunset

288

Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp.	REMARKS	
8 <sup>m</sup> W	44° 27'	3	6.19	A <sub>3</sub> 1 1/2 1 1/2	11.30	
20 <sup>m</sup> W	14 58	2	6.73	A <sub>0</sub> 1 1/2 1 1/2		
12 <sup>m</sup> W	16 56	3	6.83	F <sub>0</sub> 1 1/2 1 1/2		
25 <sup>m</sup> W	12 25	4	5.67	K <sub>0</sub> 1 1/2 1 1/2		
		4	2.014	B <sub>9</sub> 6,6	alt 1	
				6,6	" 5	photo 5 min
				6,6	" 9	
E 4 <sup>m</sup>	46 48	4	7.00	B <sub>9</sub> 1 1/2 1 1/2	11.30S to camera telescope to 200 ft near NW corner of dome was on in. Seemed from tube as chase from dome (11.30 for R.J.W.)	
W 5 <sup>m</sup>	16 35	4	6.78	A <sub>0</sub> 1 1/2 1 1/2	alt 200	
2.04 W	"	4	7.43	F <sub>5</sub> 1 1/2 1 1/2	sky hazy up stage at 12.5	
1.35 W	43 47	3	6.14	F <sub>0</sub> 1 1/2 1 1/2	clearing at 1.45. hazy up again closed up at 3.30	
					M Watch S Watch Nov. 7 10 +05.9 +25.0 +04.4 -06.1 Advanced 1 <sup>m</sup>	

no observations from all night.





Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp.	REMARKS
7:20	Z 51W	15 54	1	7.48	A2 1/2, 1/2, 1/2	clouds low in south quite hazy. hazed right up at end of pl 1524 clouds still though still hazy.
8:00	45W31	02	0	6.78	B9 1/2	filled in again track at 10:00 plate probably useless Humidity high.  gave night up as had job and closed dome.  Put tent on around mirror.
						Nov. 9 12 +06.8 +23.4 +15.0 +05.2 Stopped reset
						Nov. 10 12 +07.0 +23.6 +18.5 +03.0

Date Tuesday Nov 10-11/36 M-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
1529	HD-209833	22 01.1	28 28	I-12 $\frac{1}{2}$	Astra I	0.10	-0.8	5.55	7.00	3
- 1530	208816	21 538	63 09	"	Astra II	"	-0.9	7.10	7.50	4
- 1531	"	"	"	"	"	"	-0.8	7.50	9.20	1
- 1532	BD-63° 0110	00 486	63 33	"	Astra II <sup>M</sup>	0.25	-0.9	9.33	12 13	2
1533	HD 216398	4 54	16 22	"	"	0.10	-0.7	12.22	1.45	8
1534	35036	5 167	16 01	"	"	"	-0.7	1.48	3.52	-
1535	63312	7 432	46 03	"	"	"	-0.9	3.57	5.12	1
1536	71555	8 230	14 33	"	"	"	-1.0	5.16	6.02	2
	Focus test						-0.9			

Wed Nov 11 - Hd

Removed I-12

Tilt, ~~focus~~ was 26.33, Tilt 19.45

Put on I-25

Focus 23.4 Tilt 23.25

~~1536 F. Focus~~~~25 0.10 +2.0~~





Nov. 1936

Date Wed ~~Oct~~ 11-12 1400 - 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
- 1537	4D 206155 Focus	21 35.1	08 44	I-25	Astron II	010	+3.4	5 53	7.20	3
							4.5			
1538	4D 5394	00 50.7	60 11		Process		4.0	9 57	10 01	4
								10.03	10.11	
							4.0	10.14	10.16	
1539	4D 27483	04 15.2	17 38	"	Astron II	010	3.7	11 02	12 00	1
- 1540	34364	05 11.8	33 39	"	"	"	3.6	12 33	1 58	2
1541	35189	05 17.9	16 36	"	"	"	3.6	1 58	3 23	3
<p><sup>shut down from</sup> Mirror removed and reloaded Friday Nov. 13<sup>th</sup></p> <p>Work Nov 16 H-Std</p> <p>flat on I-12</p>										
1541F	Focus			I-12	Astron II	010	-3.5			4
					Tilt 19.5	Setting 1: Focus		26.30		
					" 5	"		26.40		



Ending Time LST.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp.	REMARKS
2:50 <sup>am</sup>		3.54	2	6.8	A <sub>0</sub> 3, 6 <small>no filter 4.2 no filter 4.3</small>	Thickening from start - nothing from 6:30 on. (better focus would be 23.55)
						more outside
						Set 1
						5 spots 5 min.
N 24 <sup>m</sup>		60 23	2	2.9	Boj 33	" 9 clouds again
E 45 <sup>m</sup>		13 45	1	6.48	F <sub>2</sub> 3, 3, 3	spec 3 min for mass spectrum
O 14 E		53 42	1	6.09	B <sub>9</sub> 3, 3, 3	" " " " "
1 11 W		15 39	2	6.15	A <sub>2</sub> 3, 3, 3	" " " " " done again.
						check at 3:45

Very good sat. mirror - solution about 48-50°F. cloudy: no bearing last

				M Watch	S. Watch
Nov. 12	12	+08.4	+22.3	+30.4	+32.3
Nov. 13	12	+08.8	+21.4	+33.8	+25.4
Nov. 14	10	+09.0	+20.6	+36.0	+30.2
Nov. 16	12	+09.6	+18.6	-06.4	-19.2

Reset - stopped.

bare outside

10/8





Ending Time  
E.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp.	REMARKS
					Clouds in afternoon + early evening
0 26W	+18 10	0	6.48	F2 1 1/2 1 1/2 1 1/2	Set focus about 26.27 or 28 clouds last for seeing very bad. Start had some around mirror, but penetration of already seeing, figure good.
1 14W	+17 15	1	7.12	K5 1 1/2 1 1/2 1 1/2	
	+16 45		7.17	F5 1 1/2	Clouds 9 <sup>th</sup> . Cloud shutters
					Cloud up 11 <sup>th</sup>
					M Watch S. Watch
					Nov. 17 12 +10.2 +18.4 -0.2 -10.3
					Nov. 18 12 +10.8 +17.9 +0.0 -03.8
					no filters 4/3 sitting 1
					Telitt 23.25 Focus 23.55
					17.95 better focus 23.70 set at that.





Ending Time LST.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp.	REMARKS
110	W 1 <sup>h</sup> 20	49 26	1	7.30	G <sub>r</sub> 3,3,3	spots 30 <sup>s</sup> - for 7.5 P. no filter 3/2 Tilt 29.25 Focus 23.70
111				2.01	B <sub>p</sub> 8,8	ret 1 no filter
112					8,8	ret 5
113	E 4 <sup>h</sup> 15	60 22	2		8,8	ret 9 wide slit spots 5 <sup>m</sup>
114	W 1 <sup>h</sup> 13	46 45	2	7.00	B <sub>g</sub> 3,3,3	spots 30 s.
115	0 34 W	16 29	1	6.97	B <sub>g</sub> 3,3,3	spots 30 s - for R.N.
116	0 05 W	16 07	1	7.13	G <sub>5</sub> 3,3,3	spots 30 s
117	1 53 W	16 04	1	7.09	G <sub>0</sub> 3,3,3	" "
118	1 49 W	46 06	1	6.61	A <sub>3</sub> 3,3,3	sky filling in towards end of exposure
						Put heat on around mirror as weather forecast calls for warmer weather.
						M. Watch Nov. 19 12 +11.7 +17.4 +09.3
						S. Watch +05.0





Ending Time  
E.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp.	REMARKS						
12 <sup>h</sup> , 7 <sup>m</sup>	extend the base; From 26		25	OK	Nov. 20	12	+12.0	+16.4	+13.0	+09.6	M. Watch S Watch
Start from 5 <sup>45</sup>			7.32	F0 12	Nov. 21	10	+12.3	+15.7	+07.8	+13.9	
down 6 <sup>15</sup>					Nov. 23	12	+13.5	+13.7	-06.0	-16.3	
also(?) by									Reset	- stopped.	
					Nov. 24	12	+14.0	+12.5	-01.0	-07.8	
12N	+22 37	0	6.71	F5 12 12 12	Nov. 25	12	+14.5	+11.9	+03.5	-01.7	
1 41W	-23 30	0	7.21	F5 12 12 12	Nov. 26	12	+15.0	+14.1	+08.4	+04.1	
0 5 11	-27 53	0	6.28	B9 12 12 12	<p>Light band 11<sup>55</sup> - 12<sup>25</sup> Light band                      sky being up in a faintly grey                      at 2.05. Sky remained cloudy with                      no substantial clearing until 3.15.</p>						
					Nov. 27	12	+13.7	+10.5	+14.2	+05.2	





Exposures

Ending Time  
E.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Mag	3	2	1	REMARKS
				7.4	58	87	116	145 174
				7.2	48	72	96	120 144
				7.0	40	60	80	100 120
				6.8	33	50	66	82 100
				6.6	28	42	56	75 84
				6.4	23	34	46	58 68
				6.2	19	29	38	47 58
				6.0	16	24	32	40 48
				5.8	13	19	26	32 38
				5.6	11	16	22	27 32
				5.4	9	14	18	22 28
				5.2	7 1/2	10	15	19 22
				5.0	6	9	12	15 18
				4.8	5	7	10	12 14
				4.6	4	6	8	10 12
				4.4	3	4 1/2	6	7 1/2 9



Date ..... *Binaries* ..... Julian Day .....

Plate No.	Object	R.A. 1900	Declination 1900	1936 Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.
2951	H.D. 96528	11 02.3	+23 52	<sup>m</sup> 04.0 40	A <sub>2</sub> 645	50km	Mar. 25. May 8, 15	29 June 3, 4, 5, 9, 12, 16	
4129	" 145849	16 08.1	36 41	09.5 36	K5 686	26 "	" 8, 9, 25	" 3, 5, 8, 9, 12, 16, 18	22 July 3
<del>4217</del>	<del>149420</del>	<del>16 29.6</del>	<del>30 43</del>	<del>31.0 39</del>	<del>F0 677</del>	<del>98</del>	<del>Apr 26 May 15, 25</del>		Orbit already determined
4351	154732	17 02.1	48 57	03.1 54	K0 732	17 "	May 23	June 21	
X 4411	157482	17 18.4	40 05	19.7 03	F8 622	22 "	May 8, 15, 29	June 4, 5, 13, 18, 26	July 3, 7, 26
4437	158837	17 26.4	02 48	28.3 46	Gop 615	22 "	Apr 26	June 5	
	165645	18 01.9	41 56	03.1 56	F0 670	40	May 25	June 5, 22	July 5, 7, 13
X 4647	169028	18 17.6	51 18	18.5 19	K2 732	42	May 25, 29	June 4, 13, 18, July 18, 31	
4678	170474	18 24.5	-2 03	26.4 02	K0 644	70	June 4	24	



Time Ending Time  
E.S.T.

3, 4, 5, 9, 12, 16

3, 5, 8, 9, 12, 16, 18

Orbit already  
terminated

5, 13, 18, 26

22 July 7, 13

13, 18, July 18

22 July 1, 3, 6, 14, 20, 24, 25, 26, 27, 30, Aug 6, 7, 8.

July 3, 7, 24, 27, 28.

31



305

April 66 - 783

May 98 - 881

June 145 - 1026

July 167 - 1193

Aug 131 - 1324

Sept 112 1436

Oct. 76 1511

(one number repeated for 2 plates, 1454)



approx. 1935 position of M 13 : 16 39.4 ; 36 35  
 & Here : 17 11.7 ; 14 27

