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3

Hour Angle End	Decl

Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
				DAVID DUNLAP OBSERVATORY
				74" LOGBOOK
				VOL 2
				PLATE NOS 758-4678
				APR 1936 - NOV 1936

Date April 21-22, 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
758	HD 71555	8 23.0	14 33	I-25	Astra	0.10	Set +3.3°	7 52	9 [illegible]	2	[illegible]
759	94118	10 46.7	46 20	=	–	–	+3.2	9 10	11 [illegible]	=	[illegible]
760	91636	10 29.8	9 10	–	–	–	+3.5	11 24	12 12	4	[illegible]
761	149926	15 52.2	42 51	–	E-40	–	+3.2	12 24	1 [illegible]	[illegible]	[illegible]
762	133330	14 58.8	28 40	–	Astra	–	+3.4	1 50	3 14	1	[illegible]

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp.	REMARKS
	2 19W	+14 27	0	5.96	A2	2-2-2	Apr. 21 C.T. 12 ΔθM.T.A. -06.5 ΔθS.T.A. -01.1 ΔθM.T.D. -07.5 ΔθWATCH +32.6
	2 [illegible]	+46 09	1	7.13	A2	2-2-2	[illegible] very [illegible]
	3 23W	+8 59	1	5.7	A0	2-2-2	
	0 27E	+42 45	1	5.56	B8	2-2-2	
	2 01W	+28 31	1	6.90	A0	2-2-1	clouds coming [illegible]
							clouds over most of sky at [illegible]
							[illegible] at 3.17
							[illegible] 3.35
							Observed [illegible]
							[illegible] 75-10
							[illegible]
							[illegible] at 10
							very strong [illegible]
							[illegible] bottom
							some aura [illegible]
							[illegible]

Date Wed April 22-23/36 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.	Error Angle End
763	HD 84737	9 42.1	46 29	I-25	Astra	010	+3.4	8.03	8 45	2
764	" 99832	11 24.0	30 58	"	"	"	+3.4	8 49	10 49	3
~~765~~	~~" 121626~~	~~13 31.5~~	~~29 10~~	~~"~~	~~"~~	~~"~~	~~+3.5~~	~~10.55~~	~~12 25~~	~~[illegible]~~
765	" 142926	15 52.2	42 51	"	"	"	+3.4	12 31	1 21	[illegible]
766	" 145891	16 08.3	13 04	"	"	"	+3.3	1 27	2 45	[illegible]
767	" 142926	15 52.2	42 51	"	E 40	"	+3.0	2.53	4.11	[illegible]
768	" 142926	"	"	"	Astra	"	+3.0	4.21	4.53	[illegible]

Wed. April 22 : Removed old clock work. Installed synchronous motor drive

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp.	REMARKS					
								C.T.	ΔθM.T.A.	ΔθS.T.A.	ΔθM.T.D.	Δθ WATCH
	0 44 W	46 20	0	5.76	G_0	2,2,2	Apr. 22	12	-06.8	-01.3	-07.8	+31.7
	1 10 W	30 48	0-1	7.44	F_2	2,2,2						without control clock
	~~0 18 W~~	~~28 59~~	~~0-1~~	~~7.11~~	~~A_0~~	~~2,2,2~~	~~slide not drawn~~ ?					
	0 48 E	42 46	0-1	5.6	B_9	2,2,2						
	0 22 W	12 58	1-4 var.	7.04	A_3	2,2,2						with " "
	2 15 W	42 46	3	5.6	B_4	4,4,4						
	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

Date Thursday April 23-24, 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
								Mean 10	10		
769	HD 106022	12 06.9	+29 06	I-25	Astra II	011	+4.5	9 05 ↓	10 55	1	03 W
770	112 570	12 52.6	+46 44	"	"	"	+4.6	11 00	12 30	2	1 26 W
771	142 926	15 52.2	+42 51	"	E 40	"	+4.6	12 35	1 55	3	[illegible]
772	164429	17 56.0	+45 28	"	Astra II	"	+4.6	2 01	3 06	4	1 00 E
773	183794	19 26.1	-02 19	"	"	"		3 10	4 46	1	[illegible]

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp.	REMARKS
10 05 1	0 37 W	+ 28 54	0-1	6.74	F2	2-2-2	Cloudy afternoon and early evening. Clouds 9^{10}-9^{25}
12 30 2	1 26 W	+ 46 33	1-2	7.22	K0	2-2-2	
55 3	0 07 E	+ 42 46	1-2	5.6	B8	4-4-4	Haze?
3 4 1	1 00 E	+ 45 30	1-3	6.20	B9	2-2-2	
	0 50 E	− 02 14	2-4	6.8 var	B8	2-2-2	
							Moderately bright aurora most of night. dome 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 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	1 [illegible]
775	126269	14 19.4	16 44	—	Astra	.011	+5.2	10 26	11 56 2	0 31 E
776	134305	15 04.0	12 52	—	—	—	+4.8	11 58	1 18 4	0 [illegible] W
777	142926	15 52.2	42 51	—	E 40	—	+5.0	1 23	2 25 3	0 26 W

Sat April 25-26, 1936 Hd.

60 visitors. Showed telescope, etc.

Ending Time E.S.T.	Hour Angle End	Declination		Seeing	Ptg. Mag.		Comp.	REMARKS
							15 8	outer inner. focus O.K.
[illegible]	1 43 W	8	58	1-2	5.7	A0	8-6-8	
[illegible]	0 31 E	16	34	2	7.19	F5 A0	2-2-2	
[illegible]	0 07 W	12	44	4	7.24	A3	2-2-2	clouding up a bit at 1.00.
[illegible]	0 26 W	42	46	3	5.6	B8	4-3-4	hazy at 1.40 quite thick at 2.25

remained cloudy

closed up 3.15 a.m.

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1936

Date April 26-27 Sunday Y-L Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.		Hour Angle End
778	HD 90717	10 23.4	30 15	I-25"	astra	Set .012"	Set +6.0	8 00	10 00	1	1 36 W
779	HD 107415	12 15.8	16 05	"	"	"	+6.2	10 05	11 35	2	1 20 W
780	HD 134792	15 06.7	29 37	"	"	"	+6.3	11 40	1 10	3	4m W
781	HD 142926	15 52.2	42 51	"	E 40	"	+6.5	1 16	2 20	4	28m W
782	HD 149420	16 29.6	30 43	"	Astra	"	+6.3	2 26	3 46	1	1 18 W
783	HD 158837	17 26.4	+02 48	"	"	-	+6.4	3 56	4 35	3	1 10 W

Ending Time E.S.T.		Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp.	REMARKS
10	1	1 36 W	30 04	0-1	7.65	Ko	2-2-2	
	2	1 20 W	15 55	1-2	7.51	Ko	2-2-2	
1	3	4m W	29 29	1	7.53	F5	2-2-2	
2 20	4	28m W	42 46	1	5.6	B8	4-4-4	
3 46	1	1 18 W	36 40	1-2	6.94	Fo	2-2-2	Last 2 plates are in holders in drawer
4 35	3	110 W	+2 48	1-2	6.15	Gop	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.		Hour Angle End
783 F_1				I-25	Astra	.011	+17°.2			1	
784	HD. 91636	10 29.8	+9 10	—	—	—	+17.2	8.00	10 10	2	2 00 W

~~Sat May 2-3, 1936 Hd~~

~~35 visitors. Showed telescope.~~ (over)

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp.	REMARKS
						12/8	Something wrong with Dec. motion, trouble is up above, (probably magnet not strong
	2 00 W	9 00	0	5.7	A0	2-2-2-2	enough. Sometimes it works and sometimes not no regularity about it

Dec setting and guiding crossed also R.A. setting and guiding crossed.

Light clouds at 8.30, much haze all evening, image ft.

Clouds coming up and haze much thicker at 10.15 so no stars visible

Closed up 10.45.

plate in plate holder in drawer.

May 2 10 -06.1 +03.5 -07.1 +48.7

Date Sat May 2-3, 1936 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
785	HD 142926	15 52.2	42 51	I-25	Ortho	010	17.5	12 10	1 05	1	[illegible]

35 visitors - showed telescope 18

Ending Time R.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp.	REMARKS
105	E 22m	4247	O	5.6	Bg	2,2,2	Many clouds. Thick at 1.00, Danger of rain. Closed.
							Dec. Setting motion doesn't work at all at high decs. Managed to set only by L holding clutch in.
							Didn't find black box. 785 in holder #1 in drawer.
							Advanced 1m.
							May 4 13 -06.1 +05.3 -07.1 +05.8

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H-L

Date Monday, May 4-5, 1936 **Julian Day**

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.		Hour Angle End
786	H.D. 79554	09 09.7	+15 22	I-25	Astra II.	010	+15.5	8 03 (Call and 8 30)	9 25	2	[illegible]
~~787~~	~~91[illegible]6~~	~~10 21.8~~	~~+09 10~~							3	

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg.	Mag.	Comp.	REMARKS
9 :	2 47 W	+ 15 15		6.57	Ko	2-2	Clouds + haze. Star gone 8^{55}
				~~5.7~~	~~Ao~~		Thick.
							Closed up 2^{10}.
							May 5 12 -06.7 +05.5 -07.7 +15.3

Date Tuesday, May 5-6, 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
786 F,	HD 100808	11 31.0	28 20	I-25	Astra	.011	14°.4	8.00		3	[illegible]
~~787~~	~~HD 100808~~	~~11 31.0~~	~~28 20~~	~~I 25~~	~~—~~	~~—~~	~~14°.4~~	~~8.00~~	~~8 50~~	~~4~~	~~0 06 E~~
~~788~~	~~96528~~	~~11 02.3~~	~~23 52~~	~~—~~	~~—~~	~~—~~	~~14°.1~~	~~8.56~~	~~10 06~~	~~7~~	~~1 39~~
787	133909	15 01.9	59 55	—	—	—	13°.5	10.16	12 36	[illegible]	0 11 W
788	142926	15 52.9	42 51	—	—	—	13.5	12.42	1 22	3	0 7 W
789	169753	18 21.1	-9 15	—	—	.016	13.5	1.34	4 04	4	0 20 W
			May 7.,	noon.	K.						
789 F,					astra	.011	13.0	set plate holder (P.H 1).		7.5	[illegible]
										25	
789 F2					—	—	—	set plate holder. (P.H. 3)		7.5	"
										25	"

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 too long at 4400.
[illegible]	~~0 06E~~	~~28~~	~~10~~	~~2~~	~~5.90~~	~~A3~~	~~2-2-2~~	Set focus to 23.50 / accident to first two plates in developing
[illegible]	~~1 39W~~	~~23~~	~~41~~	~~3~~	~~6.45~~	~~A2~~	~~2-2-2~~	Some light cloud 9.35 – 10.00 / breaking up at 11.25
[illegible]	0 11W	59	48	2	7.32	A2	2-2-2	" " " 11.00 – getting quite heavy by 11.15
[illegible]	0 7W	42	48	2	5.6	B8	2-2-2	
[illegible]	0 20W	-9	12	2	7.47	B2	2-2-2	Light haze and cloud at times.
								quite hazy at dawn.
[illegible]	— Telescope at	+61°		-3h E			6 sec	May 6 12 -06.8 +05.8 -07.8 +24.0 / comparisons normal position
[illegible]	"	" +61°		3h W			8 "	" " "
	"	+61°		3h W			6 "	" inside
[illegible]	"	+61°		3h E			6 "	" normal position
	"	+61°		5h E			6 "	" " "
[illegible]		+61°		0			6 "	" inside
	"	+61°		0 / 3h W			6 " / 6 "	" " / " normal position

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

Date Thursday, May 7-8, 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
789 F3	Focus			I.25	Astra II	010	24.0	7 45 pm		4	Focus
~~(790~~	~~H.D. 98354~~	~~11 13.7~~	~~+14 49~~	"	"	"					
790	H.D. 79554	09 09.7	+15 22	"	"	"	24.3	8 14	9 29	2	
790 F1	Focus									1	Fo
791	106022	12 06.9	+29 06	"	"	"	24.2	9 37	11 57	3	2
792	142926	15 52.2	+42 51	"	"	"	24.2	0 06	1 36	1	0 W
793	183794	19 26.1	-02 19	"	"	"	24.0	1 43	4 13	4	0 E
		Friday	morning M								
* 793 F1				I 25	Astra	.011	20.5	plate setting	7.5	1	0
				—	—	—	—	"	2.5		0
* 793 F2				—	—	—	—	plate setting	7.5	3	0
				—	—	—	—	"	2.5		0
* 793 F3				—	—	—	—	"	7.5	4	2 E
				—	—	—	—	"	2.5		2 W
				—	—	—	20.5	"	0.5		1 E

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp.	REMARKS
4	Focus	23.50	1			15, 9	Haze.
				721	G0		Mirror figure very very bad. Star (double) not resolvable.
9		15 14	1	6.57	K0	2-2-2	Haze.
1	Focus	23.45				15-10	Developed 790. Very weak. Focus still long, set 23.3
11 5	2 33 W	28 55	1-2	6.74	F2	2-2-2	Developed 791
13	0 28 W	42 46	1-2-3	5.56	B8	2-2-2	Haze.
4 13	0 28 E	− 2 13	3-	6.8	B8	2-2-2	
							Dec. setting bad; magnet too weak to set in against spring + gravity. Disconnected one end of
75	0 −	+ 50°	comp. outside			6	spring from plate 791 on. In position of weak
		+ 70°	" inside			6	was no further trouble. Apparently clutch shaft
25	0 −	+ 65°	" inside			6	will eventually need to be counterpoised.
		+ 55°	" outside			6	
W 3	0 −	+ 45°	" outside			6	
		+ 65°	" inside			6	
2.5	0 —	+ 75°	" inside			6	
		+ 55°	" outside			6	
7	2h E	+ 60°	" outside			6	
	2h W		" inside			6	May 8 12 −07.3 +08.5 −08.3 38.2
25	1h W	+ 60°	" inside			6	
	1h E		" outside			6	Min. hand M.T.A. advances one sec. later than before.
0.5	30m E	+ 60°	" outside			6	
	30m W		" inside				

Date Fri. May 8-9, 1936 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
794	HD96528	11 02.3	23 52	I-25	Astra	010	26.0	8.13	9 03	2	W47
795	142926	15 52.2	42 51	"	"	"	26.0	9.14	9 52	3	E3½
796	121626	13 51.5	29 10	"	"	"	26.0	9.58	11.30	4	W2½
797	145849	16 08.1	36 41	"	"	"	26.0	11 42	1.18	1	E1m
798	157482	17 18.4	40 05	"	"	"	26.0	1.21	2.03	2	E27m
799	142926	15 52.2	42 51	"	"	"	26.0	2.09	2.43	3	W1½
800	183794	19 26.1	-02 19	"	"	"	26.0	2.48	4.18	4	E20m

Ending Time B.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp.	REMARKS
9 3	W 47m	23 42	5	6.45	A_2	2,2,2	
9 52	E 3h 12	42 47	3	5.6	B_8	2,2,2	
11	W 26m	29 00	2	7.11	A_0	2,2,2	Light clouds.
1 8	E 1m	36 39	1-3	6.86	K_5	2,2,2	Clouds + haze. Take mid-exposure 12h20
2 3	E 27m	40 03	4	6.22	F_8	2,2,2	Some clouds.
	W 1h 40	42 47	3	5.6	B_8	2,2,2	" "
	E 20m	-02 12	2	7	B_8	2,2,2	

Time signals very weak.

May 9 12 -08.8 +08.2 -09.8 +43.0

Date Sat May 9-10 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	De
801	HD 91636	10 29.8	+9 10	I-25	Astra	.011	26°4	8.20	9.26	1		9
802	142926	15 52.2	42 51	—	—	—	26.3	10.29	11.29	2	1 31E	+2
803	145849	16 08.1	36 41	—	—	—	26.1	11.32	1.32	3	0 16W	+0
804	161569	17 41.2	45 05	-	-	-	26.0	1.38	3.48	4	1 20W	4
805	166014	18 03.6	28 45	—	E-40	—	26.2	3.52	4.24	3	1 14W	2

Shutter very hard opening. Almost wouldn't open with motor.

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp.	REMARKS
9.26 1		9 00	0	5.7	A0	2-2-2	about 100 visitors. – showed Pleiades first then M3 – better pretty good
1.29 2	1 31 E	42 47	0	5.6	B8	2-2-2	fairly hazy night
1.32	0 16 W	36 37	1	6.86	K5	2-2-2	
3.45 4	1 00 W	45 06	1-0	6.59	B9	2-2-2	considerably hazier light clouds 3.30
7.24	1 14 W	28 47	0	3.83	A0	2-4-2	darker clouds coming up.

Date Sunday May 10-11, 1936 Y-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
806	HD 134792	15 06.7	29 37	I ~~DB~~	Astra	Set 011	23.8	10 22	12 12	.1	11hr W
807	HD 142926	15 52.2	42 51	"	"	"	23.8	12 27	13 20	2	-

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp.	REMARKS
12 52 1	11m W	29 30	1	7.53	F5	½-2-2	Thunder storm heavy rain in early evening
13 20 2	–	42 51.	0-1	5.6	B8	2-2-	clouds at 1.05 — Thunderstorm coming up.
							Advanced watch 1m
							May 12 12 −09.2 +10.5 −10.2 +07.5
							signal faint – static.
							13 16 −08.9? +12.0 – +17.0

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Date Wed. May 13-14 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
807 F	Focus test			I-25	Extra	010	14.8	~~15~~		1	
~~808~~	~~HD 96528~~	~~11 02.3~~	~~23 52~~	~~I-25~~	~~"~~	~~"~~	~~"~~	~~8 29~~		~~2~~	

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp.	REMARKS
1						12 8	outside thro base
				6.45	A_2	Z_1	Dangerously high wind. Discontinued 9.00
							No decrease in wind. Closed 11.20

Date Thursday May 14-15, 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
807 F2	Focus			I-25	E 40	010	9.0	3 00 pm		1	23 31 23 50
808	HD 983.54	11 13.7	+14 49	"	astro II	"	~~Set~~ 12.5 12.8	8 15	10 15	1	2 2W
809	142926	15 52.2	+42 51	"	"	"	12.8	10 22	11 12	2	
810	134323	15 04.1	+13 37	"	"	"	12.7	11 16	0 46	3	0 54W
811	142926	15 52.2	+42 51	"	"	"	12.6	0 54	1 35	1	
812	183794	19 26.1	-02 19	"	"	"	12.5	1 46	4 12	1	
~~813~~	~~142926~~	~~15 52.2~~	~~+42 51~~								

Ending Time I.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp.	REMARKS
	23.30 23.50	setting 5 " 8				18, 12	outside thro' base. Best about 23.37
	2 12 W	+ 14 39	3 - 2	7.21	G0	2-2-2	Double. Brighter component. Well resolved at start, poor on plate but OK.
	1 28 E	+ 42 47	2 - 1	5.56	B8	2-2-2	
	0 54 W	+ 13 30	1 - 2	7.07	K0	2-2-2	
1 35		+ 42 47	2	5.56	B8	2-2-2	
	0 02 E	- 2 13	1-2=0	6.8	B8	2-2-2	Seeing blowing up badly; strong W wind.

Brushes of Dec. motor arcing: cleaned commutator.

May 15, 12 -09·8 +12·1 -09·8 +33·1

Date Friday May 15-16, 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
812 F1				I-25	Astra	.011	+10°.8			2	from setting
813	HD 96528	11 02.3	23 52	—	—	—	+11.0	8.17	9.47	3	2 0 W
814	142926	15 52.2	42 51	—	—	—	+11.0	9.55	11.15	4	1 21 E
815	149420	16 29.6	30 43	—	—	—	+11.0	11.21	1.21	1	0 07 W
816	157482	17 18.4	40 05	—	—	—	+10.6	1 25	2 55	2	0 53 W
817	166014	18 03.6	28 45	—	E-33	—	+11.0	2 59	4 13	1	1 26 W

Sat May 16-17 Ad-L

125 visitors showed M3 until clouded out
and γ Leonis " " "
closed 10.30

Ending Time E.S.T.	Hour Angle End	Declination		Seeing	Ptg. Mag.		Comp.	REMARKS
2	focus setting	23·34		base outside			10 / 6	
9 47 3	2 00 W	23	41	1	6·45	A2	2-2-2	
11 55 4	1 21 E	42	47	0-0	5·6	B8	4-2-4	guiding extremely poor drift on master clock / guiding improved but master clock kept stopping
1 21 1	0 07W	30	39	0	6·94	F0	2-2-2	aurora in north.
2 55 2	0 53W	40	04	0-0	6·22	F8	2-2-2	aurora still visible seeing terrible
4 13 1	1 26W	28	46	0	3·83	A0	7-7-7	(20 sec with sensitometer)

May 16 −09·9 +12·4 −08·9 +42·6

Date Sat May 16-17 (cont'd) 1936 (see previous page). 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
818	HD 142926	15 52.2	42 51	I-25	Astra	010	+6.8	1.10	2.12	3	W140

~~Re Sat [illegible]~~ ~~[illegible]~~

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp.	REMARKS
2:23	W 1.40	4246	1 → 0	5.6	B_8	2, 2, 2	Hazy
							During 818 Dec setting and guiding
							motor suddenly arced badly and
							went dead. Checked fuses and
							examined motor without finding trouble.
							Clouding in at 3.00 so closed.
							May 18 Advanced watch 1^m.
							May 19 12 -10.3 +13.5 -11.3 +04.2

Date Tuesday May 19-20 1936 S. H. L. Julian Day

Plate No.	Object	R.A. ~~1900~~ 1936	Declination ~~1900~~ 1936	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
	3 Serpentis	15 11.9	+ 05 11			Focus + setting				
819	NGC 5904	15 13.5	+ 02 27	Newtonian	E 40			12 28	12 35	0 52W
820	6402	17 32.4	− 03 11		"			0 49	0 59	1 06E
821	6402	"	"	"	"			1 11	1 29	0 30E
822	6254	16 51.9	− 03 57					2 01	2 11	0 51W
823	6779	19 12.7	+ 30 00					2 24	2 44	0 57E
824	6402	17 32.4	− 03 11					2 54	3 15	1 19W
	~~6934~~	~~20 29.3~~	~~+ 07 05~~							

Cloudy day; clearing with strong NW winds.

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp.	REMARKS
			Poor			Focus 62.5 mm on scale.
12 [illegible]	0 52 W					
[illegible]	1 01 E					Clouds over region delayed start. clouds again, guide star lost after 5 m.
[illegible]	0 30 E					Stopped because star ran off in RA.
2 [illegible]	0 51 W					
[illegible]	0 57 E					Haze & clouds
[illegible]	1 17 W					" Guide star lost 90% of time.
						Too thick. 5 guiding all plates
						Mirror figure poor; large zonal aberration showing.
						May 20 -10.7 -10.7

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	+28 53	Newtonian	E 40			9 00	9 10	0 53 E
~~826~~	~~5904~~	15 13.5	+02 27							
826	6205	16 38.1	+36 39					9 27	9 30	3 33 E
827	5024	13 08.0	+18 42					9 47	10 07	0 34 W
828	5904	15 13.5	+2 27					10 25	10 35	1 04 E
829	"	"	"					10 39	10 49	0 50 E
830	"	"	"					10 52	11 02	0 37 E
831	"	"	"					11 04	11 12	0 25 E
832	6205	16 38.1	+36 39					11 50	12 0	1 13 W
833	6341	17 14.1	+43 15					12 09	12 19	1 20 E
834	"	"	"					12 22	12 32	1 37 E
835	6254	16 51.9	-03 57					12 42	12 52	
836	6402	17 32.4	-03 11					1 08	1 23	29 E
837	"	"	"					1 31	1 46	0 12 E
838	5904	15 13.5	+02 27					1 54	2 04	2 26 W

Ending Time I.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp.	From 62.75 REMARKS
[illegible] 10	0 53 E		Poor			Mirror figure better than previous night.
						Plateholder cannot be reached at 2^{20} E, $\delta +2°$
[illegible]	3 33 E		Fair			Uncomfortably far East. <u>Not</u> guided.
[illegible]	0 34 W		"			Developed 825, 826 Dearth of good guide st
[illegible]	1 04 E					
[illegible]	0 50 E					
[illegible]	0 37 E					
[illegible]	0 26 E					Exposure stopped because of erratic RA motion.
				From	12.57	Drive gear appears to have been worn too much. Vaseline applied to gears.
[illegible]	1 03 W					Poor guide star.
[illegible]	1 20 E					good guide star
[illegible]	1 07 E					
[illegible]						Star ran off again badly.
1 [illegible]	0 29 E					Developed 5 plates (828-32?)
1 4[illegible]	0 12 E					
2 [illegible]	2 26 W					

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		1 03
840	6402	17 32.4	− 3 11					2 45	3 05		1 24
841	6934	20 29.3	+ 07 04					3 14	3 29		1 25
		Thursday, May 21-22, 1936					M-Hα				
							Y-M- changed			—	12
841 F				I-12	Astra	·010	9°.0	setting	9	4	
									5		
									1		

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp.	REMARKS
2.4	1 03 E					
2.5	1 12 W					
3.0	1 25 W					
						May 21 12 -10.8 +13.6 -10.8 +19.9

Took off Newtonian wts for Newtonian 3 on triangle, 1 south of triangle
wts for Cassegrain 2 next polar axis, 1 opposite finder

12-inch camera: focus on 25-inch – 23.33
tilt on 25-inch – 23.00

set 12-inch camera to tilt 19.6
focus 26.23

4	base of prism outside	slit length	L	12 sec
	top " middle	" "	"	8 "
5	white prism	slit "	M	6 "
1	" "	" "	S	6 "

comparisons come through for all slit lengths – focus O.K.

Date Thursday - May 21-22 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
841 F2				I-12	E 40	.010	+13°.2	setting	5	4	
									9		
841 F3				—	—	—	+13°.8		5	4	
- 842	HD. 91636	10 29.8	+9° 10'	—	E 33	.010 L	+13°.8	8 36	9 16	3	
843	142926	15 52.2	+42° 51'	—	E 40	— L	+13.8	9 21	9 39	1	
844	142926	15 52.2	+42 51	—	—	— L	+13.7	9 39	9 58	2	
- 845	BD 472134	14 17.3	+47 33	—	Astra	.025 M	+13.7 +13.0	10 16	1 16	3	
- 846	HD. 169753	18 21.1	-09 15	—	—	.015 M	+12°.8	1 30	2 50	4	
- 847	HD. 183794	19 26.1	-02 19	—	—	.010 L	+13°.0	3 04	3 44	1	
848	HD. 166014	18 03.6	+28 45	—	E 33	.010 L	+13°.1	3 49	4 05		

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp.	REMARKS
5 4	prism base	outside				6	
	" top	inside				6	focus a little long.
9	whole prism		diaphragm			10	set focus 26·20
	prism base	outside				8	
	" top	inside				6	
9 16 3	2^h 25^m W	9 01	2-3	5·7	A0	2-~~4~~-2	
9 37 1	2 34· E	42 48	4	5·6	B8	2-2-2	
9 57	2 15 E	42 48	3	5·6	B8	2-2-2	
	2 38 W	47 24	3	9·0	—	2-2-2	5 sec with tube in [illegible]
	0 09 W	-09 11	3	7·47	B2	2-2-2	5 sec with [illegible]
	0 03 E	-2 13	3	6.8	B8	2-2-2	
	1 42 W	+28 47	2	3·83	A0	2-4-2	20 sec with tube [illegible]

May 22 12 -10·3 +13·9 -10·3 +27·7

Date Fri May 22 – 23 1936 Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.		Hour Angle End
849	HD 112887	12 54.8	28 37	I-12	Cutra	010	15.7	8.30	10 15	2	W 103
850	140612	15 39.5	46 04	"	"	"	15.5	10.24	11.24	3	E 032
851	142926	15 52.2	42 51	"	"	"	15.6	11.29	11.54	1	E 015
852	"	"	"	"	"	"	15.6	11.55	12.19	2	W 010
853	152877	16.51.0	28 17	"	"	"	15.6	12.26	1.46	4	W 039
854	152896	16 51.1	29 12	"	"	"	15.6	1.49	3.21	1	W 214
855	183794	19 26.1	-02 19	"	"	010m	15.6	3.29	4 07	2	W 14h

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp.	REMARKS
10.15 2	W 1 03	28 26	1	7.51	F_5	2, 2, 2	
11.27 3	E 0 32	46 00	1	7.18	F_0	2, 2, 2,	Looks rather bright for 7.^{m}1.8 – checked field
11.57 1	E 0 15	42 47	1-2	5.6	B_8	2, 2, 2,	
12.19 2	W 0 10	" "	3.	"	"	2, 2, 2	
1.[illegible]	W 0 39	28 17	3	7.4	F_0	2, 2, 1	Developed 851, 852, 853
3.21 1	W 2 14	29 11.	3	7.44	A_5	2, 2, 2	
4 07 2	W 24^m	-02 12		6.8	B_8	2, 2, 2.	

	C.T.	ΔΘ. M.T.A.	ΔΘ S.T.A.	ΔΘ M.T.D.	ΔΘ watch
May 23	12	-09.8	+14.2	-09.8	+34.8

Date Saturday May 23-24, H. L., 1936 Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	
855 F1	Focus	—	—	I-12	astra II	010	23.5	—	—	1
856	HD 132445	14 54.1	+44 52	I-12	astra II	010	23.5	10 44	11 59	2
856 F1				"	"	"				3
857	154732	17 02.1	+48 57	"	"	"		12 06	12 26 ? (1 05)	4

30 visitors. ☾ thro 4"; Neptune – M3 thro 74".

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp.	REMARKS
						12,8	Outside thro' base. NG. *Center exposure did not show.
[illegible] 2	0 52 W	+44 46	2	7.28	A2	2-2-2	Hartmann diaphragm left in front for 1st 15 min
						12,8	outside base
[illegible]				7.32	Ko	2-4	Light clouds at 12.25 Thick.
							closed up 1^{10}. Rain 1^{15}

* Misunderstanding of new slit mechanism. I set only to 3rd notch for center exposure, not to screw. Hence omission of center exposure.

51

1936
Date Sunday May 24-25 Y-I Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	
857 F,	Focus test				E 40	011	23.0			1
858	HD 114092	13 03.2	28 04	I 12	Astra II	"		8 28	9 48	2
859	H.D 142926	15 52.2	42 51	"	"	"	23.0	9 59	10 29	3
860	"	"	"	"	"	"	23.0	9. 30	11 00	4
- 861	HD 149420	16 29.6	+30 43	"	"	"	23.0	11. 04	12 01	1
862	HD 152812	16 50.6	47 34	"	"	"	23.0	12. 08	1 10	2
- 863	HD 165645	18 01.9	41 56	"	"	"	22.8	1. 15	2 30	3

Hour Angle End
0 37 W
1 30 E
1 h E
35m E
11m W
½ h W

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp.	REMARKS
1						10 - 7	
9 58 2	0.37 W	27 56	3	7.58	K5	1½-1½-1½	Mirror figure changeing rapidly
10 29 3	1.30 E	42 47	2	5.6	B8	1½-1½ 1½	
11 4	1h E	—	2	5 6	A8	1½ 1½ 1½	
12 1	35m E	30 40	2	7.32	F0	1½ 1½ 1½	
1 2	11m W	47 34	2	7.30	K0	1½ 1½ 1½	clouds.
2 10 3	20m W		1	6 70	F0	1½ 1½	Thick

Date Monday May 25-26 H-L, 1936 Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	
863F,	Focus test			I-12	E40	010	19.0	7 55		1
864	H.D. 98354	11 13.7 14.0	14 49 +13 56	I-12	Astra II	010	19.0	8 30	9 20	2
865	112570	12 52.6	+46 44	"	"	"	9.1	9 29	10 24	3
866	142926	15 52.2	+42 51	"	"	"	19.0	10 29	10 5[illegible]	4
- 867	145849	16 08.1	+36 41	"	"	"	19.1	10 57	11 [illegible]	1
868	132445	14 54.1	+44 52	"	"	"	19.2	11 41	12 45	2
+ 869	183794	19 26.1	-02 19	"	"	"	19.1	12 54	1 [illegible]	3
- 870	169028	18 17.6	+51 18	"	"	"	19.1	1 49	2 [illegible]	4
871	142926	15 52.2	+42 51	"	"	"	19.2	2 42	[illegible]	1
~~872~~	~~183794~~	~~19 26.1~~	~~-02 19~~	"	"	"		5 11		6
		Times	May 26-27		Hd					
871 F	Focus Test			I-12	E40	010	20.8	8 45		1

Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp.	REMARKS
Focus	26.20				14, 9	outside thro base. Too long.
2 01 W	14 11	2	7.21	G0	2-2-2	Double star; moderately resolved. 26.14 Focus test.
1 26 W	46 35	3-2	7.22	K0	2-2-2	Seeing very variable
X 1 03 E	42 48	3-4-2	5.6	B8	2-2-2	" " "
0 56 E	36 38	2	6.36	K5	2-2-2	Developed 864, 865, 866 ✓
1 46 W	44 46	2-3	7.28	A2	2-2-2	
1 47 E	-02 11	2-1	6.8	B8	2-2-2	Crowded [illegible]
0 18 W	+51 22	2-1	7.32	K2	2-2-2	
3 11 W	42 48	2-3	5.6	B8	2-2-2	
	-02 11		6.8	B8	2-	clouds at 3,20
						clear 3 45
						Advanced
						May 26 13 -09.3 +15.3 -09.3 -04.2
					14, 10.	outside thro base.
						May 27 12 -09.7 +15.2 -09.7 +03.0

Date Wed, May 27-28, 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	D
872	HD. 142926	15 52.2	42 51	I-12	Astra	.010L	+15°.8	12.06	12.46	3	5 57 W	4
873	166014	18 03.6	28 45	—	E33	—	+15.7	12.50	1.57	4	003E	2
874	187949	19 47.5	-14 51	—	Astra	—	+15.7	2.02	3.46	1	2 02W	-

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp.	REMARKS
							opened at 7:00 just last on. Clouds came up after sunset. Heavy rain from north at 9:00. Later cleared but high wind. Had off 900 – 12:00. Light clouds 11:00. Opened again 12:00.
12:40	0 57 W	42° 48'	0–0	5.6	B8	1½, 1½, 1½	Seeing terrible.
1:7	0 03 E	28 48	0–0	3.83	A0	4, 4, 4	a good deal of haze and cloud alternating with clear sky.
3:40	0 02 W	-14 42	0–0	6.4	A2	1½, 1½, 1½	

	C.T.	ΔΘ M.T.A	ΔΘ S.T.A	ΔΘ M.T.D.	ΔΘ watch
May 28	12	-09.8	+15.6	-08.8	+11.6

Date Thursday, May 28-29, 1-1-2 1936 Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.		Hour Angle End
874 F1	Focus			I-12	Astra II	010 L	9.1			2	
– 875	HD 96528	11 02.3	+23 52	"	"	"	9.1	8 32	9 18	1	2 22W
876	110834	12 39.8	+44 39	"	"	"	9.0	9 21	11 00	2	2 27
877	142926	15 52.2	+42 51	"	"	"	9.0	11 03	11 33	3	0 12E
– 878	149420	16 29.6	+30 43	"	"	"	9.1	11 40	12 40	4	0 17W
– 879	157482	17 18.4	+40 05	"	"	"	9.1	0 42	1 17	1	0 [illegible]
– 880	183794	19 26.1	-02 19	"	"	"	9.0	1 35 ~~1 23~~	2 50	2	0 29E
– 881	169028	18 17.6	+51 18	"	"	"	"	2 54	3 58	3	1 49W

Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp.	REMARKS
					15, 10	Set frame out from 26.15 to 26.20 (due to temperature), OK at 26.20 {outside base
2 22 W	+23 42	1	6.45	A2	1½.1½.1½	
2 27 W	+44 30	1	6.76	F5	1½·1½ 1½	Intermittent light clouds 9^{35} ov. Very thick 10^{05} – 10^{3-}
0 12 E	+42 48	1	5.6	B8	1½·1½ 1½	
0 17 W	+30 41	1-2	6.94	F0	1½.1½.1½	
0 16 W	+40 06	1-2	6.22	F8	1½ 1½ 1½	
0 29 E	-02 12	2	6.8	B8	1½ 1½ 1½	Haze 1^{45}, 1^{55} + thereafter. Trouble with dec guiding – clutch slipping (not end of run). O.K.
1 49 W	+51 21	2	7.32	K2	1½ 1½ 1½	Clouds intermittently

	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

Fri — M's birthday.

Date Saturday - May 30-31, 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.
882	HD 142926								

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
						spectrograph.
						June 1 12 - 10.1 +16.5 -09.1 +34.5
						2 12 - 10.7 +16.4 -09.7 +43.5

Date Wednesday June 3-4 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
			focus	set at	26.16						
881 F,				I-12	Astra	.010	+17°.2			4	
-882	H.D. 91636	10 29.8	+9 10	—	—	—	+17.2	8 42	9 16	3	3 16W
-883	96528	11 02.3	+23 52	—	—	—	+17.2	9 20	10 00	2	3 27W
884	142926	15 52.2	42 51	—	—	—	+17.4	10 05	10 25	4	0 57E
-885	145749	16 08.1	36 41	-	-	-	+17.2	10 33	11 33	1	0 04E
-886	169753	18 21.1	-9 15	—	—	—	+17.4	11 40	1 40	2	0 [illegible]E
-887	187949	19 47.5	-14 51	—	—	—	+17.3	1 44	2 44	3	0 33E
-888	183794	19 26.1	-2 19	—	—	—	+17.2	2 48	3 48	4	0 33W

Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp.	REMARKS
						June 3 — C.T. 13 — ΔθM.T.A. −11.1 — ΔθS.T.A. +16.6 — ΔθM.T.D. −10.1 — Δθ watch +41.8
	base outside				10 7	
3 16W	9 02	1	5.7	A0	1½ 1½ 1½	
3 27W	23 43	1	6.45	A2	1½ 1½ 1½	
0 57E	42 48	1	5.6	B8	1½ 1½ 1½	
0 04E	36 38	1-0	6.86	K5	1½ 1½ 1½	
0 11E	−9 11	1	7.47	B2	1½ 1½ 1½	6 sec with tube sensitometer
0 33E	−14 41	1	6.45	A2	1½ 1½ 1½	6 sec with tube sensitometer
0 53W	−2 11	1	6.8	B8	1½ 1½ 1½	

Date Thursday June 4-5- 1936 Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.		Hour Angle End
– 889	HD 96528	11 02.3	23 52	I-12	Astra	0 10	+17.1	8.38	9 13	1	W 2 44
889 F	Focus			"	E 40	"	"			2	
890	HD 141930	15 46.6	44 49	"	Astra	"	17.1	9.22	10 58	3	E 5m
– 891	" 157482	17 18.4	40 05	"	"	"	17.1	11 04	11 24	4	E 1 19
892	⊛ " ~~155092~~	17 04.4	25 23	"	"	"	17.0	11 34	12 34	1	W 5m
893	" 142926	15 52.2	42 51	"	"	"	17.0	12 39	1 00	2	W 1 43
– 894*	" 169028	18 17.6	51 18	"	"	"	17.0	1.10	2 00	3	W 1m
– 895	" 170474	18 24.5	-2 05	"	"	"	17.0	2.08	2.38	4	W 47m
– 896	" 183794	19 26.1	-02 19	"	"	"	17.0	2.43	3 31	1	" 39m
897	" 190603	20 00.7	31 56	"	"	"	17.0	3 35	3 53	2	W 28m

* Must be wrong star (see June 13-14)

⊛ Identified as
HD 155041 17 04.1 +29 17 – K2 1938 Dec. 19.

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp.	REMARKS
9 13	W 2 44	23 43	2	6.45	A_2	1½, 1½, 1½	
						15,8	ontricle: base (Focus as on June 3-4)
10 58	E 15m	44 45	2→4	7.57	A_0	1½, 1½, 1½	
11 24	E 1 19	40 05	3-4	6.22	F_8	1½, 1½, 1½	
12 04	W 5m	29 17	4	7.33	F_2	1½ 1½ 1½	
1 00	W 1h 43	42 49	3	5.6	B_8	1½, 1½, 1½	
2 00	W 16m	51 20	3-4	7.32	K_2	1½ 1½ 1½	Mistake in R.A.? Circles read 18h 19.6. Check
2 31	W 47m	-2 01	4	6.44	K_0	1½ 1½ 1½	
3 31	W 39m	-2 11	3	6.8	B_8	1½, 1½, 1½	
3 53	W 28m	32 05	5	5.45	B_0	1½ 1½ 1½	

Telescope focus changing during night.

					Advanced 1 minute
June 6	12	-10.4	+15.1	-09.4	+04.1

Date Friday June 5-6 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
					set focus to 26·12 on ·11						
897 F1				I-12	Astra	·010	21°3			1	
898	H.D. 96528	11 02·3	+23 52	—	—	—	21·3	8 38	9 18	2	2 48 W
899	142926	15 52·2	42 51	—	—	—	21·2	9 23	9 43	3	1 32 E
!! 900 !!	145849	16 08·1	36 41	—	—	—	21·1	9 46	10 36	4	0 53 E
901	157482	17 18·4	40 05	—	—	—	20·5	10 42	11 12	2	1 28 E
902	158837	17 26·4	+02 48	—	—	—	20·7	11 21	11 45	3	1 03 E
903	165645	18 01·9	41 56	—	—	—	20·5	11 50	12 32	4	0 30 E
904	170470	18 24·5	10 49	—	—	— M	20·7	12 36	2 06	1	0 21 W
905	183794	19 26·1	−02 19	—	—	— L	20·7	2 10	3 00	2	0 12 W
906	187949	19 47·5	−14 51	—	—	—	20·7	3 05	3 51	3	0 42 W

Saturday June 6-7, 1936 H.

Cloudy. 200+ visitors.

[illegible]

H. shed [illegible]

Ending Time I.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp.	REMARKS
		base outside				10 7	
9 [illegible]	2 48 W	23 43	3 – 1	6·45	A2	1½, 1½, 1½	
[illegible] 43 [illegible]	1 32 E	42 48	2	5·6	B8	1½, 1½, 1½	
10 36 [illegible]	0 53 E	36 39	3	6·86	K5	1½, 1½, 1½	hazy clouds over most of sky.
11 12 [illegible]	1 28 E	40 06	3	6·22	F8	1½, 1½, 1½	
11 4[illegible]	1 03 E	2 49	3	6·15	G0p	1½, 1½, 1½	
[illegible] 32 4	0 50 E	41 59	3	6·70	F0	1½, 1½, 1½	
[illegible]	0 20 W	10 53	4	8·1	A0	1½, 1½, 1½	
3 00 [illegible]	0 12 W	−2 12	3	6·8	B8	1½, 1½, 1½	
3 5[illegible] 3	0 42 W	−14 43	3	6·4	A2	1½, 1½, 1½	

	C.T.	$\Delta\theta$ M.T.A.	$\Delta\theta$ S.T.A.	$\Delta\theta$ M.T.D.	$\Delta\theta$ watch
June 6	14	−12·1	+17·8	−11·1	+15·4
8	12	−13·6	+18·2	−14·0	Reset −03·6

1936

Date Monday June 8-9 Y. MR-I **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
Set on	HD 96528 -	Too faint to hope to get at t				2h West at start					
906 F1	Focus Test HD 124897				Ashai	0.10	Focus	set 26.13		2	
– 907	α Boötes	14 11.1	+19 42	I 12	E 40	"	23.5	9.11	20 5 Exp	1	
– 908	HD 145849	16 08.1	36 41	"	Astra	"	23.4	9.25	10 45	3	33m E
909	HD 153472	16 54.7	42 39	"	"	"	23.7	10 54	12 24	4	
910	HD 142926	15 52.2	42 51	"	"	"	23.5	12 30	1 20	2	
911	HD 183794	19 26.1	-02 19	"	"	"	23.8	1.27	2 57	1	2h W
912	HD 185955	19 36.6	+45 43	"	"	"	23.8	3.03	3 45	"	
			Tuesday June 9-10								
912 F_1			I	I-12	E40	.010	20.0°			1	
" F_2				—	"	—	—			2	
" F_3				—	"	—	—			3	
" F_4				—	—	—	—			4	

Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp.	REMARKS
10^m E	19 34	2 Rack	1.24	K0	4	
33^m E	56 38	1	686	K5	1½ 1½ 1½	
	42 39	2	745	K2	1½ 1½ 1½	
2 18 W	42 47	2	5.6	B8	1½ 1½ 1½	Set focus at Beg of this star at 26.20
21^m W	-2 12	2	6.8	B8	1½ 1½ 1½	
1^{00} W	45 51	2	7.12	G5	1½ 1½	adjusted crosswires of finder on this star
						I think the secondary could be cleaned to advantage. RKY
	outside base				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	

Date Tues. June 9-10, 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.	Plate Title	Hour Angle End
912 F5	(focus at 26.20)			I-12	E40	.010L	22°.8			4	
913	H.D. 96528	11 02.3	23 52	"	Astra	"	22.8	8 50	9 40	1	3 33 W
914	14-2926	15 52.2	42 51	—	—	—	22.6	9 45	10 11	2	0 [illegible] E
915	145849	16 08.1	36 41	—	—	—	22.4	10 14	11 24	3	0 10 W
916	169753	18 21.1	-9 15	—	—	.020M	22.6	11 36	2 18	4	0 51 W
917	185936	19 36.5	+13 35	—	E.33	.010L	22.7	2 26	3 42	3	1 00 W

Reading Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp.	REMARKS
4		base outside		— 15 / 10		focus about right 4200 – 4500. little long outside this range.
9 45 1	3 31 W	23 42	1	6.45 A2	1½ 1½ 1½	quite hazy.
10 11 2	0 47 E	42 48	2	5.6 B8	1½ 1½ 1½	
11 24 3	0 10 W	36 38	2	6.86 K5	1½ 1½ 1½	
2 18 4	0 51 W	−9 11	2	7.47 B2	1½ 1½ 1½	haze much thicker
3 42 5	1.00 W	+13 43	2	5.8 B3	5–1½ 5	

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

Date Thursday June 11-12 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 Incl
917 F1	Jupiter			I-12	Astr-2II	010	17.0	7 40		1	
F2	"				–			8 00		3	
918	HD 142926	15 52.2	+42 51				18.0	9 30	10 40	3	
918 F1 ~~919~~	145849	16 08.1	+36 41				17.5	10 50		4	

Clouds all day. New finder installed. One wt added to upper end for balance. approx right. Needs further work.

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp	REMARKS
1			outside	- base	15, 9	Focus 26.20 ; n.g. too long
3			"	"	15, 10	26.16 with holder 3.
3		+ 42 52	0 - 1	5.6 B8	$1\frac{1}{2}$, $1\frac{1}{2}$, $1\frac{1}{2}$	Focus test on plate, 26.18 Clouds most of time after 1^{40}
4		——	——	6.86 K5	—	" " " " " . Region cloudy at start. Solid check on double by [illegible]
						Clouded up 1^{45}

	C.T.	ΔΘ M.T.A	ΔΘ S.T.A	ΔΘ M.T.D.	ΔΘ watch
June 12	12	+28.9	+ 20.2	− 20.1	+05.0

Date Friday June 12-13 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
918 F2				I-12	Astra	.010L	21.9°			3	
-919	H.D. 96528	11 02.3	+23 52	—	—	—	22.0	8 47	9 57	4	4 W
-920	145849	16 08.1	36 41	—	—	—	21.5	10 02	11 16	3	-4 W
-921	169753	18 21.1	-9 15	—	—	.015L	21.5	11 24	2 04	4	0 4 W
-922	187949	19 47.5	-14 51	—	—	.010L	21.5	2 11	3 28	3	0 4 W

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp.	REMARKS
		base [illegible]				12/8	focus good!
9 57 4	4 00 W	23 43	1	6.45	A2	1½, 1½, 1½	
1 16 3	0 14 W	36 38	1	6.86	K5	1½, 1½, 1½	driving poorly, jumping off. marked drive gear with red pencil.
2 04	0 49 W	−9 10	1	7.47	B2	1, 1, 1,	a lot of trouble guiding 1.30 – 2.00
3 28 3	0 47 W	−14 42	1–0	6.45	A2	1½, 1½, 1½	take end of exposure at 3.13.
							6 sec tube sensito. [illegible] - 921, 922,

a lot more trouble guiding [illegible] plate 922 seems to occur when [illegible] south of equator and west of meridian. Runs off [illegible] west by amount equivalent to 4 or 5 sec with R.A. setting [illegible]. Roughly periodic with [illegible] of 1 minute. [illegible] vibrations. impossible to [illegible]

Date Sat June 13-14 1936 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
922F.	Tous			I-12.	Astra	010	25.0			1	
923	HD 145891	16 08.3	13 04	"	"	"	25.0	10 25	11 25	2	0 26W
923F				"	"	"	25 0			3	
924	H.D. 157482	17 18.4	40 05	"	"	"	25 0	11 35	12 10	4	0 02W
925	" 169028	18 17.6	51 18	"	"	"	25.1	12 18	01 20	3	0
926	" 163966	17 53.8	45 01	"	"	"	25.1	01 26	02 26	4	1 45W
927	" 182239	19 18.6	14 44	"	"	"	24.9	02 34	03 30	3	1 21W

Ex Visitors - Showed E Bro, V13.

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp.	REMARKS
							June 13 C.T. 12 ΔΘ M.T.A +28.9 ΔΘ S.T.A. +20.5 ΔΘ M.T.D. −19.1 ΔΘ watch +01.7
1		base outside				12 / 7	Focus 26.17
11 25 2	0 26W	12 59	1	7.04	A_3	1½, 1½, 1½	
3		base outside				12 / 7	
12 10 4	0 02W	40 04	1-2	6.22	F8	1½ 1½ 1½	Focus O.K. on P.H. #3, Poor on #1. [illegible]
[illegible] 3	0 13W	12 22	3	7.32	K_2	1½, 1½, 1½	Circles check (see June 4-5)
0[illegible] 4	1 45W	45 02	1-3	6.81	B9	1½, 1½ 1½	When first set on this star it drifted back and forth
[illegible]	1 21 W	14 50	3	6.64	A_3	1½, 1½, 1½	across slit at the rate of the whole width of

guiding telescope field in one second. Note: telescope W of meridian and at +45

Same thing with 927 — managed to guide by holding against spectrograph to take up play.

June 15 12 +28.8 +21.6 −16.4 +11.8

Date June 15 1936 Y. Monday. 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
927 F1	Focus test			I-12	F 40	010	22.5			2	
~~928~~	~~HD 134792~~	~~15 06.7~~	~~29 37~~	~~"~~	~~Agfa~~	~~"~~	~~27.5~~	~~9 12~~		~~3~~	
928	HD 152812	16 50.6	47 34	"	"	"	26.5	10 40	12 10	3	37h W
929	HD 164059	17 54.3	45 53	"	"	"	26.5	12 15	1 35	4	59h W
930	HD 183794	19 26.1	-02 19	"	"	"	26.5	1 43	3 ~~23~~ 07	5	57h W
930 F1	Focus test			"	F 40	"	"	Focus at 26 20		4	

Second finder is now adjusted.

Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp.	REMARKS
Outside thru Base					15-8	Focus reads 26.18 set at 26.20
		0	~~7.53~~	~~F8~~	~~1½-~~	relay stuck. Put on new batteries, Set T 26.5 at 9 48
37m W	47 34	0	7 30	K0	1½-1½-1½	
59m W	45 54	1	7.19	F5	1½-1½-1½	
57m W	-2 .13	0	7.0	B8	1½-1½-1½	runs into pier at this hour angle. Temp in dome 54° F at end
Outside thru base					15-8	
						June 16 12 +28.3 +22.1 -19.7 +19.3

1936

Date Tuesday June 16-17 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
				set focus	to		26.15				
930 F_2				I-12	Astra	.010 L	19°.0			3	
- 931	H.D. 96528	11 2.3	+23 52	—	—	—	19.0	8 57	10 01	4	
- 932	145849	16 8.1	+36 41	—	—	—	19.0	10 07	11 07	1	
- 933	169753	18 21.1	-9 15	—	—	.015 M	19.0	11 15	1 25	2	
		Wed	June 17		12 noon		Hd.				
933 F_1					Astra		19.9	Focus at 26.15		1	
933 F_2					"		"			2	
933 F_3					"		"			3	
933 F_4					"		"			4	

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp.	REMARKS
		base outside				12 / 7	focus seems just right.
10 1	4 19W	23 43	2	6·45	A2	1½ 1½ 1½	
[illegible]	0 19W	36 37	2	6·86	K5	1½ 1½ 1½	
12 5 4	0 25W	−9 12	2	7·47	B2	1½ 1½ 1½	some fog noticed 12·30 – 1·15 thick at 1·25
							take 1·15 as end of 932
							closed at 2.05.
2.35 1		base outside				12 / 7	
2		"				"	
3		"				"	
4		"				"	

	C.T.	ΔΘ M.T.A.	ΔΘ S.T.A.	ΔΘ M.T. watch	ΔΘ S.T. watch
June 18	12	− 02m 03·8s	+ 26·8	− 24·6	+ 33·8

M.T.A. stopped and was reset.

M.T.D. giving trouble

1936

Date Thursday June 18-19, Y-MR-L (HA) Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Plate Holder	Hour Angle End
933 F_5	Focus Test			I-12	E-40	set 010	Set 21.8	8.45		1	
- 934	H.D. 145849	16 08.1	36 41	"	Astra	"	22.5	8 56	9.56	2	0 43 E
- 935	H.D. 157482	17 18.4	40 05	"	Astra	"	22.2	10 01	10.35	3	1 5 E
936	H.D. 164~~509~~ 05	17 54.3	45 53	"	Astra	"	21.8	10 46	12.01	4	0 23 E
- 937	H.D. 169028	18 17.6	51.18	"	Astra	"	22.2	12 10	1.30	2	0 17 E
- 938	H.D. 219855 / First took to	22 08.2	56 21	"	Astra	"		3 23	3.33	3	
939	be nova			"	Astra	"		3 34	3.38	4	
- 940	Nova (sphere?)			"	Astra	"	22.2	3.44 37	3.48 37	2	
Note (1985) Tn	(Later called Nova Lac)	α 1936 22 13.2				"		3.48 50	3.51 50		[illegible]
		δ 1936 55 20.				"		3.52 40	3.54 20		at 4 [illegible]
- 941				"	Astra	"	22.2	3.55 05	3 56 25	3	was
		R.A. Observed		"		"		3.57	4 02		0.36 E
- 942		22 13.1		"	E 40	"		4.03	4.0[illegible]	4	

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp.	REMARKS
1		base outside				15.8	Focus 26.15 O.K.
9.56 2	0 43 E	36 38	2	6.86	K5	1½ 1½ 1½	very brilliant aurora! 10.05 P.M.
10.35 3	1 15 E	40 04	"	6.22	F8	1½ 1½ 1½	Dr. Young left about 10.05.
12.01 4	0 23 E	45 54	"	7.2	F5	1½ 1½ 1½	mirror fogged up; dried, and then dusted and
1.30 2	0 17 E	51 22	"	7.3	K0	1½ 1½ 1½	cleaned it with cotton-wool and rouge, before
3		56 33		5 92	F8	4½	opening
4		"				4½	
1 37 5 2		55 20				4½	received collect telegram about 1.35 by telephone:
3.5	Hour Angle	"				4½	"Cambridge, Mass. Pelletier reports third magnitude
3	at 4.06	"				4½	nova 2° south preceding delta Cephei". Moved telescope
3	was	"				4½	in that region but were unable to locate it. Summoned
	0.36 E	"				4½	Dr. Heard by telephone. Finally found a likely looking
4		"				8	object & took these plates.
							Estimated mag ≐ 3.3 — H. H.
							aurora very brilliant all night

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.	
Focus 942 F1				I12	E-40	010	18.5	10 AM		1
942 F2				"	M Pan	"	"	"		2
942 F3				"	"	"		" "		1
942 F4				"	"	"	"	12		3
942 F5	Focus			"	"	"	24.5	9 P.M		3

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp.	REMARKS
1	\	"			14-8	Focus 26.15 tilt changed from 19.61 to 18.6
2					12-9	" " "
1					12-7	" 18.0
3					12-7	" 19.0
						ΔθM.T.A. ΔθS.T.A. ΔθM.T. watch ΔθS.T. watch
						June 19 12 -2 04.2 +23.5 -23.2 -23.3
						Retarded 2m Advanced 1m
						- 04.2
	Focus 26 20	tilt 19.0	at	setting 3		on slide 10-6 outside thru base
	" 26.15	" 19.2	"	" 6		" " 10-6 " " "

1936

Date Friday June 19-20 - M-H d-L Julian Day

Plate No.	Object	R.A. ~~1900~~ 1936	Declination 1900 1936	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Flat Holder	Hour Angle End
- 943	Nova Cyg.	22 132	+55 20	I 12	astra	.005		10 12	Exp 12s	1	
- 944	"			—	astra	.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 60s	"	
- 954	"			—	Met P	.008		12 20	Exp 60s	2	
- 955	"			—	Met P	.008		12 28	Exp 20s	1	
	"			—				12 30	Exp 30s		

Reading Time P.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp.	REMARKS	
Exp 2.1		55 20	1		8	spots 30^s strips 1^m	too wk.
Exp 2.2	Hour Angle	"			8	" " " "	too wk.
Exp 3	At 10.22	"			5	" " " "	too wk.
Exp 4	Was 6.16E	"			5	" " " "	too wk
11.06 1		"			15		l wk.
11.1 2		"			20		[illegible]
11.2 3	Hour Angle	"			10 - 10 (filter out)	spots $7\frac{1}{2}^m$ strips 5^m	G l
Exp	At 11.53	"			6	" 20^s " 1^m	S
11.5	Was 4.45 E	"			8	" 20^s " 1^m	
2.2		"			10 - 10 (filter out)	spots $7\frac{1}{2}^m$ ~~strips~~	V S
Exp 1		"			8 (filter out)	setting 3	S
Exp		"			8	setting 7	
Exp		"			8	" 10	
Exp 1.5	Hour Angle	"			8	setting 10 spots 20 sec strips 15 sec	S
Exp	At 12.24	"			8	Setting 3 spots 20 sec	G
Exp	Was 4.15 E	"			8	Setting 7	G

Date Friday June 19-20 1936 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
955 F,	Nova Cephei			I-25	Astra	.008	23.9	1 15			
- 956	"			—	Astra	.008		1 27	Exp 2 m	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 1½m		
- 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 tilt 19.2

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp.	REMARKS
	Base outside				25/17	Changed to I-25 set focus 23.35 tilt 23.00
Exp 1					15	setting 3 spots 30 s S
Exp 2					15	setting 7
Exp 2					15	setting 10 spots 30 s strips 30 s S
1-7 3					15-15	setting 3 spots 90 s S
2					15-15	setting 7
2					55, 55 filter out	setting 3 spots 7½ m S
3					8, 8 filter out	" 7
1					12	setting 3 spots 30 s E ✓
					12	" 7 E ✓
					12	setting 0 spots 20 s E
	Hour Angle				12	setting 5
	At 3.04				12	" 10
	Was 1.30E					Long slit not compared to 7½ m E
					12	setting 3 spots 30 s W
					12	setting 7

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Date Fri June 19-20 1936 M Bd 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
- 964				I-25"	M Pan	008		3.35	Exp. 30s	3	
								3.36	" 30s		

Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp.	REMARKS
					12	Setting 3 shots 20s. W
					12.	Setting 7
						C.T. ΔθM.T.A. ΔθS.T.A. Δθ M.T. watch Δθ S.T. watch
						June 20 14 -04.2 +24.1 -23.2 -13.9

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Date Sat. June 20-21 1936 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
- 965	Nova Ceph			I-25	E-40	.008		11-11-08	Exp. 1 min	1	at 11-30.0
	"			"		.008		11-13-50	" 2 min		5-04.5 E
	"			"		.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	"			"	ashā	.008		12-52-45	Exp 2 m	2	
	"			"		.008		12-55-35	" 4 m		
	"			"		.008	24.2	1-00-40	" 8 m		
- 970	"			"	Process	.008		1-11-00	1.41.00	4	
- 971	"			"	E-33	.008		1-41-30	1.56.30	1	
- 972	"			"	Ashā	.008	24.0	1-58-30	2.02.30	2	

100 visitors
Showed M3 — 74 [illegible]
Nova [illegible] small instrument

Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp.	REMARKS
at 11-30.0		O		24 sec	setting 1½ spots 1 min
hL, 5-04.5 E				24	setting 5
				20	setting 8½
				20	setting 10.4 spots 1 min stripes 40 s
				15	setting 3
				15	setting 7
				12, 12,	setting 3 spots 90 s
				12, 12,	setting 7
				15	setting 1½ spots 30 s
				7, 7	setting 5
				7 7	setting 8½
				5, 5, 5	setting 3 one dropped out
				20, 20	setting 5 spots 160 s
				7, 7	setting 10.4 spots 30 s [illegible] 15 s

Date Sat. June 20-21 1936 m-mn 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	Nova Cephei			I - 12	Mt. Pan	.008		2-51-03	1/2 min	1	Mt. Lat
	"			"	"	.008		2-52-35	1 1/2 min		8.01,
	"			"	"	.008	24.0	2-55-05	3 min		1-32 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	
see page before as well	"			"	"	.008	23.8	3-23-15	10 min		
- 976	"			"	Defnd 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		

set focus I-12 26.15
tilt 19.2

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp.	REMARKS
03 1/2 min 1	Hr. ∠ at					8	setting 1 1/2 spots 30 s.
5 1/2 min	3.01,					8	setting 5
5 3 min	1-32 1/2 E					8	setting 8 1/2
1 min 2						8	setting 10 spots 30 s. strips 15 s
51 min 3						10	setting 15 spots 20 s
3 min						10	setting 5
1 min						10	setting 8 1/2
5 min						7 7	setting 6 1/2
1 min						7 7	setting 10
2 min 1						10	setting 10
1 min 2						10	setting 3 went off 5
3 1/2 m							setting 7

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.	
977F	Focus Test			I-12	E-40	Set 010	Set At 17.4			1
~~978~~	~~H.D. 145849~~	~~16 08.1~~	~~36 41~~	~~I-12~~	~~Astra~~	~~"~~	~~17.6~~	~~8 57~~	~~10 17~~	~~3~~
978	" 154732	17 02.1	48 57	"	"	"	17.5	10 20	11 40	4
979	Nova Cephei	1936 22 13.2	1936 55 20	"	"	008	17.5	11 53	Exp 45s	1
	"	"	"	"	"	"		11 56	Exp 90s	
	"	"	"	"	"	"		11 58	Exp 3m	
980	"	"	"	"	E-33	"		12 08	12 28	3
	"	"	"	"	"	"		12 31	12 38	
981	"	"	"	"	Asha IX	"	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	Asha 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
1	Outside Base					15.8	Focus 26.15 Met 19.2
3	013 E	36 - 38	0	6.86	K5	~~1/2 1 1/2 1/2~~	Slide ?
4	20m W	48. 56	1	7.32	K0	1/2 1/2 1/2	
Exp 1s	Hour Angle		1			6	setting 1 spots 30s
Exp 10s	At 12.06		1			6	setting 5
Exp 3m	Vas. 425 E		1			6	setting 9
1h 2			1			15 - 15	setting 3 spots 3m 3x length slit
1h 3			1			10 - 10	setting 7
Exp 5s			1			4	" 10 1/2 spots 30 shutter 15s off point
Exp 1m 2			1			4	" 10 1/2 " " OK
Exp 1m 4			1			4	" 10 1/2 " " (too strong)
Exp 15s 3	Hour Angle		1			4	" 10 1/2 " "
	At		1		5/3	3 filters out.	Focus 23.35 Met 23.0
2 8	Vas		1			3 filters out 4 - 4	setting 2 3 filters out 2 x length slit spots 3m
2 27						3 filters out 3 - 3	" 8 " " " OK " " "

1936 (cont^d)

Date Sun 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
- 986	η Cep.	1936 22 13.2	1936 55 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	Expl'm	2	
								3.00	3.02		
								3.04	3.08		
- 988	"	"	"	"	Astra			3.24	3.27	2	
								3.28	3.34		

Ending Time L.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp.	REMARKS
2 54	on Angle		1		3 filters out 3 - 3	setting 1 spots 3^m
2 51	at 2 44				3 - 3	setting 5
[illegible]	[illegible] 1.46 E				3 - 3	setting 9
Exp [illegible]					R filters out 6	setting 0 put other filter in spots 30^s
3 [illegible]					6	setting 5 (OK)
[illegible]					6	setting 10
3 [illegible]					6	setting 2 Long slit spots 30^s
3 [illegible]					6	setting 8 " ← (OK)
						June 22 12 ΔΘM.T.A. −04.4 ΔΘS.T.A. +25.6 S.T. watch −21.4 M.T. watch +00.1

Date Monday June 22-23 1936 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.	
988 F1	Focus test			I 25	Astra II	Set. 010	Set. 20.0			1
989	HD 142926	15 524	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 (1936)	55 20	"	"	008	20.2	11-58-25	1 min	1
	"			"	"	"		12-00-47	12-02-47	
	"			"	"	"		12-04-23	12-0-24	
-993	"			"	lantern	"	20.3	12 17	12 47	3
-994.	"			"	Astra II	"	20.2	12-53-10	1-13-10	2
994 F1	Focus			I 12	M. Pan	"	3-0 2			
-995	Nova Cephei			"	Astra IX	"	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 Mag at 10 P.M E.S.T as 3.0
But later 2 am looked nearer 3.6 or 4.0

Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp.	REMARKS
Outside thru base					5/3	3 filters out, Focus set 23.30 but not changed
17m E		3-5	5.6	B8	2-2-2	
24m W		5	6.86	K5	2-2-2	
	41 57		6.70	F0	2-2-2	
	55 20				8	setting 3 } spots 30s
					8	setting 6 }
					8	setting 9 }
at 12-56					7, 7	setting 3 spots 30s
was 3-30 E					8	setting 6 7½m
Outside thru base					10/6	
					4	Setting 10½ stripe 10s spots 30s
					4	setting 10½ " 10s " 30
					4	long slit spots .30s setting 6 }
					4	setting 3 }
					16	setting 6½

	C.T.	ΔO M.T.A.	ΔO S.T.A.	M.T. Watch	S.T. Watch
June 23	12	-04.8	+25.9	-19.8	+09.4

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Date Tuesday June 23-24 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
998 F.				I-12	Met. P.	.008	+20°.4	tilt lower	19.2	1	
-999	Nova Cephei	22 13.2	+55 20	–	Astra IX	.008		8.59	Exp 50s	1	
	"			–		"		9.05	Exp 1½m		
	"			–		"		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	Hour Angle
-1004	"			–	Astra IX	"		10.57	70s	2	1:15
	"			–		"		10.59	11.02		Was 5.[illegible]E
	"			–		"	+20.5°	11.03	11.13		
-1005	"			I-25	Astra II	"		1.17	1.22	1	
	"			"				1.23	1.53		
1005 F.	Focus Test			"	Astra II	"				2	
-1006	Nova Cephei			"	E.33	"		1.45	3.15	3	

very difficult to estimate exposures owing to clouds.

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp.	REMARKS
	Case outside		10 / 7			O.K
			0 - 0	spots	6	setting 1½ seeing poor
				20	6	" 5 differential setting Journal. Made remainder of R.A. motions by hand.
9 3					6	" 8½
9 25				stripes 10 / spots 20	6	" 10 clouds and haze star almost
9 40				stripes 13 / spots 20	6	" 10 blanked out
			1	spots 20	6	" 2½ clear
			1		3 - 3	" 7½
	Hour Angle			stripes 8 / spots 20	6	" 10
	At 11 15			spots 20	6	" 1½ intermittent clouds.
	Was 5.07E				6	" 5
					6	" 8½ Thick
				spots 20	8 - 8	- 1½ fiducial differential
					8 - 8	- 5
	Case outside		22 / 14			- set I - 25 focus 23.35
3 1			2	3 ... / slits out 130	4 - 4	- 5 long slit. Tilt 23.0

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(Continued) 1936

Date 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 Angle End	D
-1007	Nova Cephei			I.-25	Astra	.008	–	3.17	3.37	4		

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp.	REMARKS
3:37 7			2		5 3 stars	Settling 10.4 gt 300 strips 5 sec.
						C.T. ΔθM.T.A. ΔθS.T.A ΔθM.T.watch ΔθS.T.watch
						June 24 12 -04.9 +26.4 -18.1 +15.5

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Date Wed June 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
1007 F.	Focus.			I-25	Astra	010	20.7	~~9 11~~		1	
1008 (a)	HD 142926	15 52.2	42 51	"	"	010	20.6	9 11	10.01	2	4.2m
(b)	"	"	"	"	"		"	10 06	11 34		4.35m
1008 F	Focus			I-25		010	20.6	~~11 33~~		3	
- 1009	HD 170474	18 24.5	-2 03	"	"	010	20.6	11 46	12 46	4	W 5m
- 1010	η Cep.	1936 22 13.2	1936 55 20.		Astra	008		mid 1 03	2 min	1	
								mid 1 08	4 min		
								mid 1 15	8 min		
- 1011	η Cep			1	E33	008		1.31	1.55	2	
								1.56	2 08		
- 1012	η Cep			1	Astra	008		mid 2.28	3 min	1	
								mid 2.36	6 min		
- 1013	γ Cas HD 5394	00 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.	REMARKS
	base outside					20/15	U.S.: no filters in.
10.1 2	W 2^m	42 48	1 → 5	5.6	B_8	2, 3, 2	setting 2 } spots 30 s
8 34	W $1^h 35^m$		3			2, 3, 2	setting 8 2 x length slit } spots 30 s
	Wt-	base outside				20/15	
12 46	W 15^m	−01 59	3.	6.44	K_0	2, 2, 2	
2 min		55 22	6			8	Setting 1 spots 30 s
4 min	Sorry!		6			8	" 5
[illegible]	MT 3.11		6			10	" 9
[illegible] 2	ST=21 06		5			no filters 4, 4	Setting 2 spots 3 m.
2.05						no filters 4 4	" 8
3 min			6			1 filter 10	setting 2
6 min			6			1 filter 10	" 8
[illegible]	E 3^h 25	60 25	6	2.01	B0p	no filters 8, 8	2 x length slit Clouds most of time

	C.T.	Δ⊖ M.T.A.	Δ⊖ S.T.A.	Δ⊖ M.T. Watch	Δ⊖ S.T. Watch
June 25	12	−05.2	+26.8	−16.8	+21.8
26	12	−05.8	+25.1	−17.8	+29.0

Date Friday June ~~25-26~~ 26-27 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
~~1014~~											
	Sat June 27 Hal.										
	Changed to I-25.										
1013 F,	Focus test				Astra IX	008	18.0			3.	
	Sky										
- 1014	Sky			I-25	Lantern	008	18.0	10.15	3 m.	4	
- 1015	Sky			I-25	"	008	18.0		1/2 m	4	setting 2
									1 m		" 8

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp.	REMARKS
						changed to I-12. set focus 26.15
						tilt 19.2
						thickening up fast, set on Nova
						Lacertae but couldn't see star in
						finder.
						remained Check.
3					20/15	setting 1 Focus 23.35 Tilt 23.0
						setting 7. 15s full length + 15s centre
3 m.						full length slit.
½ m.	setting 2					" " "
1 m.	" 8					

	C.T.	ΔθM.T.A.	ΔθS.T.A	Δθ M.T. watch	Δθ S.T. Watch.
June 27	12	-05.2	+27.8	-17.7	+36.0

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Date Sat June ~~26 – 27~~ 27 – 28 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
– 1016	HD157482	17 18.4	40 05	I-25	Cetra II	010	23.5	10 38	11.50		37m.
~~1017~~											

60 visitors. Showed moon with 110
74" (reversed). Jupiter with 4½".

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp.	REMARKS
11.50	W 37m.	40 05	-/	6.22	F_8	2-2-2	clouds $11^h 12^m$ — 11.44
							Clouds threatening again. Set on Nhae
							— clouds and rain.
							Closed 1.30. Put outside heat
							on mirror.
							Sunday A.M. Took heat off mirror
							1 Hd.

1936

Date Sunday June 28-29 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	42 51	I 25	Astra II	Set 010	20.0	8 50	9 40	3	4m E
- 1018	HD 145849	16 08.1	36 41	"	"	"	20.0	9.44	10 44	2	
-* 1019	Nova Lac,	1936 22 13.2	1936 45 20	"	"	008	20.0	10 58	11 02	4	5.02 E
								11 04	11 12		4.02 E
								11 14	11 30		? E
- 1020	Nova Lac			"	E 33		20.2	11 31	11 49	3	
1020F1	Focus test			I-12	Astra IX	"				1	
- 1021	Nova Lac			I 12	astra IX	008		12 26	12 28	1	
	"							12 29	12 37		3.16 E
	"							12 38	13 00		
1022	HD 187237	19 43.9	27 36	I 12	Astra II	010	20.5	1 07	2 37	2	.02 W
1023	" 199098	20 49.8	44 48	"	"	"	19.9	2 45	3 35	4	.55 W
		Tues June 30									
* 1023 F1	Focus (also 2 plots 30 s)			I-12	Astra II		17.0			1	Focus
1023 F2	(" " ")			"	" II		17.0			4	

* developed in fine grain developer. 14 m at 19°C

Ending Time I.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp.	REMARKS
9 40	4m E	42 47	1	5.6	B8	2-2-2	Nova estimated mag 4.7
10 44	45m W	36 38	1	6.86	K5	2-2-2	
11 02	5 02 E	55 20	1			8s	Setting 1 spots 30s
11 12	4 52 E		1			4-4	" 5
11 30	4 34 E		1			4-4	" 9
			1			10-10	
		Outside thru base.				10/6	Focus 26 15 Set 19 2
12 21			0			6s	Setting 1 spots 20s
12 37	3 26 E		0			3-3	" 5
12 50			0			3-3	" 9
1 [illegible]	1 02 W	27 43	0	7.53	G5	1½-1½-1½	Plate holders 2 and 4 are in dark
[illegible]	0 55 W	44 58		6.59	K0	1½-1½-1½	room with the plate box.
							Dec Clutch failed on last
	Focus 26.15 Set 19.2					10/7	star. Motor runs but the
	"	"				10/7	clutch evidently doesnot engage
							Pushed tube down by hand.

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

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.
1023 F_3	Focus			I-12	Cutra IV	010.	19.0	setting	1
				"	"	"	"	"	5
				"	"	"	"	"	9
1023 F_4	Focus			"	"	"	"	setting	1
								"	5
1023 F5	Focus			"	"	"	19.2	setting	5
1023 F6	"			"	"	"	"	"	"

Reading Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp.	REMARKS					
									ΔθM.T.A.	ΔθS.T.A.	Δθ M.T. watch	ΔθS.T. watch
Tang 1	Tilt 19.2	Focus	26.10	outside	base	10/7	June	29 12	+10.0	+25.7	-21.0	+44.7
" 5	"		26.15	"	"	"		30 12	+10.2	+29.3	-17.8	-04.7
9	"		26.20	"	"	"	Focus bad; twisted plate barrel slightly.					
Tang 1	"		26.00	"	"	"						
" 5	"		26.30	"	"	"						
	Tilt 19.4	Focus	26.27	outside	base	14/8						
11	" 19.6	"	26.27		"	14/10	set tilt to 19.5					

Date Tuesday June 30 - July 1 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
-1024	HD 157482	17 18.4	+40 05	I-12	Astra II	.010 L	18.8°	9 29	10 09	2	52 E
1025	166014	18 03.6	+28 45	—	Mt. Pan	.010 L	18.8	10 15	10 17	4	
								10 17	10 23	-	
								10 26	10 34	—	13 E
-1026	165645	18 1.9	41 56	—	Astra II	.010 L	19.1	10 47	11 47	1	
-1027	Nova Lac.	22 13.2 (1936)	55 20 (1936)	—	Astra IX	.010 L	19.0	12 00	12 04	2	
								12 05	12 17	—	
								12 18	12 54	—	E
-1028	Nova Lac.	—	—	—	E-33	.010 L	19.1	12 55	2 25	X	30 E
1029	H.D. 209484	21 58.7	29 44	—	Astra II	.010 L	18.8	2 34	3 34	4	07 E

Ending Time L.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp.	REMARKS
[illegible]	0 52 E	40 02	0	6.22	F8	1½, 2, 1½	
[illegible]		28 44	0	3.83	A0	6	settling 2 20s shots
[illegible]		—	0	-	-	6	" 5
[illegible]	1 13 E	—	0	-	-	3-3	" 8
[illegible]	0 03 W	41 57	0	6.70	F0	2-2-2	
[illegible]		55 20	1	(5)	-	8	settling 2 20s shots.
[illegible]		—	-	-	-	4-4	settling 5
[illegible]	3 00 E	—	-	-	-	4-4	settling 8
[illegible]	1 30 E	—	-	-	-	8-8-8	3m shots
[illegible]	0 07 E	29 54	1-0	6.99	B9	2-2-2	30s shots

Date Wed July 1-2 1936 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.	
1029 F	Focus			I-12	Met P.	010	21.5			4
- 1030	AD 145849	16 08.9	36 41	"	Astra II	010	21.5	8 50	9.40	2
1031	" 157935	17 21.2	16 29	"	"	"	21.5	9.45	10.46	4
- 1032	" 157482	17 18.4	40 05	"	"	"	21.5	10.51	11 23	4
1033	" 167134	18 08.8	16 14	"	"	"	21.5	11.28	12.28	2
1034	" 189213	19 53.8	28 36	"	"	"	21.6	12 33	1.33	4
- 1035	U Lac	22 13.2 (1936)	55 20	"	Astra IX	010	21.5	mid 1.48	2½ min.	3
								1.51	1.56	
								1.59	2.14	
- 1036	U Lac.	"	"	"	{ 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.					10/4	Focus 26.27 Tilt 19.5.
9 40	E 8m.	36 36	1	6.86	K_5	1½, 1½, 1½	
10.30	E 15m	16 21	2	7.03	F_2	1½, 1½, 1½.	
11 23	W 26m	40 02	3	6.22	F_8	1½, 1½, 1½	
2 [illegible]	W 40m	16 16	2	7.14	F_5	1½, 1½, 1½	
1.33	60	28 42	2 → 3	7.11	A_2	1½, 1½, 1½	
2 mm		55 18	4	(5.0)		7	setting 2 spots 20 s
1.26	1h 27 E		3			7	" 5
2.14	at 2.23		3			7	" 8
3 20	E 30m		5 → 3			10, 7, 10	setting 3. 2x length slit spots 3m
3 32	E 11m		2			13, 13	setting 7 " " " – clouds
							July 2 12 +09.2 +29.2 −16.8 +09.6

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Date July 2-3 Y-h-MR Thurs. **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
1036 F1	Focuslest			I-12	Med Pan	010	Set 21.6			1	
- 1037	N Lacertae	22 13 2	55 20	"	Astra IX	010	22.0°	8-55	9 17	1	h m 6-29 E
- 1038	"	"	"	"	"	"	21.5	9 44	9 56	2	
- 1039	"	"	"	"	"	"	21.5	11 46	12 36	1	3-11 E
1040	HD 199098	20 49.8	44.48	"	Astra II	"	21.3	1 03 see→	2 43	2	0-18 W 4
1041	" 215664	22 41.7	44 01	"	"	"	21.5	2 51	3.36	4	0-40 E 4

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp.	REMARKS
1		Outside thru-base.				9/6	Focus set 26.30 - Met 19.5
9 17 1	6h-29m E		0			1, 1, 1	Set Focus at 26.35, Taken thru clouds
1 55 2						1, - 3	shut off by clouds.
12 36 1	3 - 11 E		0			1½, 1½, 1½,	spots 30 secs
[illegible] 2	0 - 18 W	44 57	0 - 1	6.59	K0	1½, 1½ 1½	clouds 1h-22m to 1h-33m
3 [illegible] 4	0 - 40 E	44 12	0 - 1	6.12	F0	1½, 1½, 1½	

Intermittent clouds during the exposures on 1039, 1040,
Bright moon

Fri. Date July 3-4 1936 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 F	Focus.			I-12	M Pan	0/0.	20.6			4	
- 1042	HD 145849	16 08.1	36 41	"	Astra II	"	20.5	8.48	9.39	4	{8m
- 1043	HD 157482	17 18.4	40 05	"	Astra II	"	20.5	9.44	10.24	2	{25m
1044	" 142926	15 52.2	42 51	"	E 33	"	20.4	10.30	12 00	1	37
- 1045	η Lac.	22 13.2 (1936)	55 20	"	Astra IX	"		12.13	12 35	3	
							20.9	12.35	1 25		
- 1046	η Lac	"	"	"	E 33	"	20.6 / 19.5 / 21.0 !	1.26	3 44	1	m

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp.	REMARKS
		outside base.				10/1	Focus 26.35 Tilt 19.5
9 3?	E 8m	36 36	2	6.86	K5	1½ 1½ 1½	
11 2?	E 25m	40 02	2-0-2	6.22	F8	1½ 1½ 1½	
12 ?	W 2h 37	42 46	ave 3	5.6	B8	8, 10, 8	spots 3 min.
12 3?	3 08	55 18	1	(5.9)		3, 4	setting 3. spots 20s
1 25	E 2h 18	"	1			3, 4	setting 7
3 ?	W 1m	"	3.			8, 10, 8	1½ x length slit spots 3m

nova distinctly red in colour now.

Note temperature control bad.

	ΔGM.T.A	ΔG S.T.A.	ΔGM.T. watch	ΔOS.T. watch
July 4	+08.1	+34.7	-15.4	+26.7

Think Temp control is now OK.
(watch) RKCf.

Date Sat. July 4-5, 1936 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
1046 F.				I-12	Inst P.	.010	22°0			1	
-1047	HD169753	18 21.1	-9 15	—	Astra II	.020 L	21.9	10 44	12 40	4	0 12W
-1048	Nova Lac	22 13.2	55 20	—	Astra IV	.010 L	21.7	12 52	1 12	2	2 26E
—	—	—	—	—	—	—	21.8	1 12	2 12	-	1 16E
-1049	—	—	—	—	E-40	—	21.0	2 12	3 42	1	14W

About 225 visitors.
Showed α Her, with 24-inch, Jupiter with 4-inch, and moon

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp.	REMARKS
		base out seals..				12/7	tilt 19.5 focus 26.34 (tube clamp out)
12 ..	0 52 W	− 9 13	1	7.47	82	1½ 1½ 1½	temp 11.15 = 21°.5 11.50 = 21°.9 12.20 = 21°.6 spots 30 s
1 12	2 26 E	+55 18	1			1½ 1½ 1½	setting 3 spots 20 s.
2 12	1 26 E	–	1			1½, 1½, 1½	setting 7
3 21	0 04 W	–	1–2			3, 3, 3	temp at 2.56 = 19°.9 at 3.20 – 20°.9 at 3.30 – 22°.1 spots 90 s. 3.40 22°.3

temp in dome 58° F.

	ΔθMTA	ΔθM.T watch	ΔθSid.T.A	ΔθSid.T watch
July 6	+7.5	−15.0	−28.0	+5.5

H

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Date Sunday July 5-6 1936 Y-L Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.		Hour Angle End
- 1050	HD 145849	16 08.1	36 41	I 12	astra II	set 010	24.5	8 50	9 50	1	W
- 1051	HD 165645	18 019	41 56	"	"	"	23.9	9. 55	10 55	2	E
- 1052	HD 183794	19 26.1	-02 19	"	"	"	23.9	11. 00	12. 15	4	E
1053	HD 185955	19 36.6	45 43	"	"	"	23.9	12. 23	1. 23	1	
1054	HD 191918	20 07.2	32 00	"	"	"	23.6	1. 32	2 32	2	W
- 1055	Nova Lac	22 13.2	55 18	"	Astra IV	"	23.9	2. 42	3. 42	3	W

Estimated Mag of Nova 5.5

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp.	REMARKS
0 50 1	17m W	36 35	2	6 86	K5	1½-1½-1½	
1 35 2	31m E	41 57	2	6 70	F0	1½-1½-1½	
[illegible]	36m E	-2 14	1	7.0	B8	1½-1½-1½	
1 [illegible] 1	28m W	45 49	1-2	7.12	G5	1½-1½-1½	
[illegible] 2	1. 01 W	32 06	1	7.07	A0	1½-1½-1½	
[illegible]	6m W	55 19	1-2			1½-1½-1½	

	Δc M.T.A.	Δc M.T. Watch	Δc Sid.T. A	Δc Sid.T. watch
July 6	+7.5	-15.0	-28.0	+5.5

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.	
1055 F,				I-12	Met P.	.010 L	26°.0	-		1
1056	H.D 153286	16 53.4	+47 32	—	Astro II	—	25°.9	9.06	10 [illegible]	1
1057	H.D. 166014	18 3.6	+28 45	—	E 33	—	25°.7	10 32	10 [illegible]	2
	—	—	—	—	—	—	—	10 38	10 56	
-1058	H.D 187947	19 47.5	-14 51	—	[illegible]	—	25°.5	11 07	12 17	2
1059	H.D 178947	9 5.5	30 24	—	—	—	25.8	[illegible]	1 03	1
-1060	H.D. 193637	20 16.2	33 37	—	—	.020 M	25.7	1 09	3 09	1
-1061	Nova Lac	22 13.2	55 20	—	Astro II	.010 L	25.5	3 16	3 48	4
1061 F,	Focus			I-25	M Pan	010	24.5			
1061 F2	"			"	"	"	"			

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp.	REMARKS
	Too cloudy.		1/2 8				focus 26.34 tilt 19.5 plate O.K
		47 29	2	6.94	A2p	1½ 1½ 1½	light [illegible] clouding the [illegible] at 9.40 [illegible]
		28 45	2	3.83	A0	2½ 2½	spots 3m
		—	2	—	-	10, 10	[illegible]
	0 50 E	-14 45	1	6 42	A2	1½ 1½ 1½	spots 30 r
		+30 28	3	6.66	B9	1½ 1½ 1½	
	1 34 W	33 45	2	8.6	A	1½ 1½ 1½	spots 30 r
3 48		55 19	2-1			1½ 1½	spots 20 r.

	ΔφMTA	MT.Watch	ΔφSil T.A	Sil. Watch
July 7	+7.5	-14.2	+29.2	+41.2

outside base — no filters 4/3 — setting 1 Focus 23.35 Tilt 23.0
" 5 " 23.50
" 9 " 23.65

outside base — 4/3 — setting 1 Focus at 23.45 Tilt 22.7
" 5 23.0
" 9 23.3

Date Tues July 7-8 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
1062	HD 142926	15 52.2	42 51	I-25	Astra II	010	27.8	9.42	10.22	4	4h 15m
- 1063	157482	17 18.4	40 05	"	"	"	27.8	10.33	11.41	1	1.07
- 1064	165645	18 01.9	41 56	"	"	"	27.8	12.22	2.00	2	2.03
- 1065	η Lac	22 13.2 (1936)	55 20	"	"	"	27.3	2.10	3.46	3	4.19m
1065 F1	Focus			"	Astra II	"	27.3			4	

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp.	REMARKS
1h 2 4	W $1^h.15$	42 46	2	5.6	B_8 3,3,3	best focus : Focus 23.45 Tilt 23.2
1 [illegible] 1	W $1^h.07$	40 03	2	6.22	F_8 3,3,–	Clouds ; Count mid exposure 11.00
2 [illegible]	W $2^h 43$	41 57	2	6.70	F_0 3,3,3	Haze.
3 [illegible]	W 19^m	55 18	0		[illegible] 3,3,3	Haze & clouds Spots 30 S
		bare outside			no filter 4/3	

	ΔΘ M.T.A.	ΔΘ M.T. watch	ΔΘ Sid.T.A.	ΔΘ Sid.T. watch
July 8^d 12^h	+6.5	−15.0	+35.1	+53.9

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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.	
1065 F_2				I-12	Ref. Pan	.010	27.8	about 3.00	p.m.	
1065 F_3				—	—	—	33.5	set	1	
				—	—	—	—		5	
				—	—	—	—		9	
							set temp. about 32.0			
1066	HD 161569	17 41.2	45 05	—	Astra II	.010 L	33.8	9 18	9 56	3
- 1067	169753	18 21.1	-9 15	—	—	.015 L	33.5	10 03	12 03	4
- 1068	BD 26° 3896	20 21.6	+27 02	—	—	.020 M	32.1	12 11	2 11	2
- 1069	Nova Lac.	22 13.2	+55 20	—	Ast. II	.010 L	31.8	2 31	3 17	1
- 1070	Nova Lac.	—	—	—	Astra II	.010 L	31.8	3 17	3 47	3
1070 F_1	Focus			I-25	M Pan	.010	31.3			4

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp.	REMARKS
		base outside.				12/8	set focus 26·35 tilt 19.5
		base outside				12/8	focus 26·35 "
5						40/20	26·25 " 26·25 just right
						20/12	26·15 "
							set focus to 26·25, tilt 19.5
6	0 57 E	45 04	2	6·59	B9	1½, 1½, 1½	
	0 30 W	-9 13	2	7·47	B2	1½, 1½, 1½	~~a f 9½~~ - 30.2
	0 58 W	27 10	2	8·8	—	1½, 1½, 1½	- 30.2
	0 06 E	55 19	2	-	-	1½, 1½, 1½	
	0 24 W	55 19	2	-		1½, 1½, 1	ΔθM.T.A. ΔθM.T. watch ΔθS.T.A. ΔθS.T. watch
							July 9 12 +6.8 -15.8 +38.3 +60.3
4	base outside					no filter 4/3	Tilt 23.25 - Setting 1½ focus 23.4
							" 5½ 23.2
							" 9 23.0
							best: Tilt 23.25 Setting 23.4

1936

Date July 9-10 Thursday Y-MR-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	D
1071	H.D. 142926	15 52.2	42 51	I-25	astra II	set 010	set 33.2	8 45	9 17	1	17h W	4
1072	H.D. 161695	17 41.9	31 33	"	"	"	33.8	9 21	9 56	4	54h E	3
1073	H.D. 166895	18 04.0	14 16	"	"	"	33.7	10 01	10 43	1	29h E	14
1074	H.D. 166409	18 05.4	44 06	"	"	"	33.3	10 47	11 57	2	44h W	4
1075	H.D. 191918	20.07.2	32 06	"	"	"	33.5	12 02	1 12	4	53h E	3
1076	H.D. 197139	20 36.6	43 05	"	Met. Pan.	"	32.9	1.32	2 37	3	54h W	4
1077	H.D. 218043	22 59.8	30 45	"	astra II	"	31.7	2 42	3 47	1	45h E	3

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp.
3 7 1	17ᵐ W	42 45	5-3	5.6	B8	3,3,3
3 56 4	54ᵐ E	31 33		6.2	B9	3,3,3
[illegible] 1	29ᵐ E	14 17	2-3	6.4	A2	3,3,3
[illegible]	44ᵐ W	44 07		7.1	F5	3,3,3
1 [illegible]	03ᵐ E	32 07	2-3	7.1	A0	3,3,3
2 37 [illegible]	54ᵐ W	43 15		7.1	K0	3,3,3
3 7 1	20ᵐ E	30 58		7.1	F2	3,3,3

REMARKS

Put out 4¼" to see Comet, etc.

While revolving dome at 12 35 heard a crunching noise. Inspection showed one collecting trolley all buckled. One copper cable has evidently become loosened causing trolley to jump.

D[illegible] relays cutting up.

Dec seems to be OK now.

		Δ G.M.T.A.	Δ G.M.T. Watch	Δ G.S.T.A.	Δ G.S.T. Watch
July 10ᵈ	12ʰ	+6.6 sec	-17.9 sec	+39.3	+65.1

Date 1936 July 10-11 Friday 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
1077 F1	Focus Test			I-12	Astra IX		34.0	8 15		1	
1078	HD 134323	15 04.1	+13 37	"	Astra II	set 010 L	set 34.0	8 52	10 02	4	1.54 W
1079	183794	19 26.1	-02 19	"	"	"	33.9	10 24	11 44	4	0.4 E
1080	176377	18 54.9	+30 02	"	"	"	33.9	11 48	0 58	1	1.00
1081	206155	21 35.1	+ 8 44	"	"	"	34.0	1 03	2 17	3	[illegible]
1082	Nova Lacertae	1936 22 13.2	+55 20	"	Astra IX	"	34.0	2 22	2 57	2	0.17 E
"	"			"	"	"	33.8	2 58	3 08	"	[illegible]
1083	"			"	Astra II	"	33.8	3 09	3 39	1	0.39 W
1084	"			"	"	"	33.8	3 40	3 55	4	0.40 W

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp.	REMARKS
1		outside - base				25/15	26.25 Filt 19.5 Two tests. During first Hartmann diaphragm dropped during exposure 2nd OK: diaphragm tightened by Y.
[illegible] 2	1 54 W	+13 29	4-3	7.07	Ko	1½-1½-1½	Focus set about 26.27 Light clouds; star often lost.
[illegible] 4	0 46 E	-02 14	2-1	6.9	B8	1½-1½-1½	Cloudy at start. Light haze
0 [illegible]	1 00 W	+30 05	1-2	7.11	G0	1½-1½-1½	Haze
[illegible] 3	0 25 E	+ 8 54	2-	6.8v	A0	1½-1½-1½	"
2 5 2	0 17 E	+55 18	2-3			1½-1½-1½	Setting 3
[illegible]	0 06 E	"	2-3			1½-1½-1½	" 7 Haze
[illegible]	0 24 W		2-3			1½-1½-1½	Clouds
3 [illegible]	0 40 W		3			"	Plates 1078 + 1079 probably ruined by not closing plate-box

Take sensitometer 30s each plate.

	ΔΘ MTA	ΔΘ M.T. Watch	ΔΘ S.T.A.	ΔΘ S.T.W
July 11ᵈ 10ʰ	+6.5	-17.8	+41.3	±0.0
				+70 [illegible]

Date Saturday July 11-12 1936 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	4M 180216	19 10.6	16 01	"	Ortho II	"	33.5	11 05	12 11	1	000
1086	" 190167	19 58.6	28 14	"	"	"	32.7	12 23	1 09	2	W 10m
1087	" 193555	20 15.7	15 13	"	"	"	32.6	1 12	2 12	3	W 57m
1088	Nova Lac.	1936 22 13.2	55 20	"	"	"	32.8	2 22	3 24	4	W 13m
	" "	"	"	"	"	"		3 24	3 40		W 29m
1089	γ Cas	00 50.7	60 11	Lantern	"	"	32.8	3 46	1 min	1	
	"							3 48	2 min		
	"							3 51	4 min		E 1h55

about 50 sections Delayed by 2300 volt-line fuse being blown. Finally showed M13 with 7¼". With 4¼" showed Jupiter, M13, Comet P., doubles. 1138

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp.	REMARKS
– 4	–	–	–	–	–	no filter 3/2	Tilt 19.5 Focus 26.27
12 11 1	0.00	16 05	2	7.14	A2	1½, 1½, 1½	
1 09 2	W 10m	28 21	2	6.77	B9	1½, 1½, 1½	
2 22 3	W 57m	15 20	3	7.37	F8	1½, 1½, 1½	
3 27 2	W 13m	55 19	2			1½, 1½, 1½	setting 3 Shots 305 Hazy
3 40	W 29m		3			1½	setting 7 "
1		60 22	4	2.01	Bop	no filter 7 secs	setting 1 "
2 min							" 5 Shots 5m "
4 min	= 1h 55						" 9 "

Date Sunday July 12-13 1936 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	Astar II	010 L	Set 33.0	8 15		1	
	HD 134323	15 04.1	+18 37	"	"	"	33.0	8 40	9 40		1 29 W
– 1091	183794	19 26.1	-02 19	"	"	"	32.9	9 46	11 00	2	1 22 E
1092	164898	17 58.3	+45 21	"	"	"	31.9	11 05	12 15	3	
1093	176377	18 54.9	+30 02	"	"	"	32.9	0 21	1 21	4	1 30 W
– 1094	206155	21 35.1	+08 44	"	"	"	32.9	1 26	2 26	1	0 15 W
– 1095	Nova Lacertae	22 13.2 (1936)	+55 20	"	"	"	33.0	2 32	3 02	2	0 05 E
– 1096	"	"	"	"	"	"	33.0	3 05	3 18	3	0 W
1097	HD 216511	22 48.4 (1900)	+46 01	"	"	"	32.9	3 21	4 01	4	0 3 W

Ending Time E.S.T.	Hour Angle End	Declination		Seeing	Ptg. Mag.		Comp.	REMARKS
		outside - base					20/12	19.5 tilt; 26.27 focus.
[illegible]	1 39 W	+13	29	2-1	7 07	K0	1½-1½-1½	Haze. Image <u>very</u> unsteady, tho night seems calm
[illegible]	1 22 E	-02	14	2-3	6.9 v	B8	1½-1½-1½	Haze
[illegible]		+45	22	3	7.42	B9	1½-1½-1½	Note - Temp drops yet heat was on at this time.
[illegible]	1 30 W	+30	05	4	7.11	G0	1½-1½-1½	Dense haze 0^{35} —
[illegible]	0 05 W	+08	53	3	6.8 v	A0	1½-1½-1½	
[illegible]	0 05 E	+55	19	2			1½-1½-1½	Light haze
[illegible]	0 11 W	+55	19	3			3-2	Light haze
[illegible]	0 18 W	+46	12	3	6.18	B9	1½-1½-1½	" "

Plates 1091-1097 used 30^s with tube sensitometer

	ΔδM.T.A.	ΔθM.T.W	ΔδS.T.A.	~~ΔδS.T.N~~
July 13^d 12^h	+4.6	-21.4	+41.3	+83.1

Date Monday July 13-14 1936 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
1098	HD 164059	17 54.3	45 53	I-12	Ashra II	Set 010	Set 34.5	9 02	10 12	1	[illegible] E
1099	HD 165645	18 019	41 56	"	"	"	34.5	10 18	11 18	3	[illegible] W
1100	HD 176053	18 533	31 52	"	"	"	34.5	11 25	12 35	4	[illegible] W
1101	HD 202314	21 099	29 29	"	"		34.6	12 42	2 00	1	0

Ending Time E.S.T.	Hour Angle End	Declination		Seeing	Ptg. Mag.		Comp.	REMARKS
[illegible]	35m E	45	53	2	7.19	F5	1½ 1½ 1½	very Hazy. Temp in dome at start 95°
[illegible]	24m W	41	57	2	6.70	F0	1½ - 1½ 1½	
2 [illegible] 4	50m W	41	55	2	7.18	A3	1½ - 1½ - 1½	
2 00 1	0	29	39	2-1 -0	7.25	K0	1½ - 1½	Sky thick, no image. call comlic of T x 1/2 1 12

July 14d 12h

ΔΘ M.T.A.	ΔΘ M.T. watch	ΔΘ S.T.A.	ΔΘ S.T. watch
+3.9	-22.6	+42.3	+89.8

Date Tues July 14-15 1936 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
1101 F	Focus			I-12	M Pan	010	30.1			4	
- 1102	HD 145 849	16 08.1	36 41	"	Astra II	"	30.4	8.44	10.17	1	W 1h 27
1103	" 157935	17 21.2	16 29	"	"	"	29.9	10.28	12 08	2	W 1h 59
1104	" 193472	20 15.3	13 14	"	"	"		~~12 15~~		3	
"	"	"	"	"	"	"	30.3	12 22	1 08	3	W 3m
1105	" 199311	20 51.3	45 51	"	"	"	29.9	1 16	2 16	4	W 37m
- 1106	η Cae	22 13.2	1936 ~~56 20~~	"	M Pan	"	29.9	2 23	4 03	2	W 1h 03

Ending Time I.S.T.		Hour Angle End	Declination		Seeing	Ptg. Mag.		Comp.	REMARKS
	4		outside		Trans			no filter 3/2	Tilt 19.5 Focus 26.27
15 17	1	W 1h 27	36	36	0	6.86	K5	1½, 1½, 1½	R.A. clamping out of order. Clamped by hand
[illegible]	2	W 1h 59	16	27	O	7.03	F2	1½, 1½, 1½	
	[illegible]					6.10	A5	1½,	setting 5 — mistake in slit length.
[illegible]	3	W 3m	13	21	0	"	"	1½, 1½, 1½	setting 9
[illegible]	4	W 37m	46	00	0	6.66	A0	1½, 1½ 1½	
[illegible]	2	W 1h 03	55	19	1			1½, 1½, 1½	setting 3. Spots 20 s

Observed very pronounced earth-shine.

R.A. clamping still not working.

	Δ G.M.T.A.	Δ G.M.T. Watch	Δ G.S.T.A.	Δ G.S.T. Watch
July 15d 12h	+3.2	−24.3	+42.7	+98.7

Siderial Watch set on 1 min: +38.7

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	1 37 W
1108	6254	16 51.9	-03 57		"			9 43	9 53	0 1 W
1109	6402	17 32.4	-03 11		"			9 58	10 22	0 6 W
1110	6402	"	"		Astra II			10 28	10 48	0 30 W
1111	6779	19 12.7	+30 00		"			11 05	11 30	0 27 E
1112	6402	17 32.4	-03 11		E 40			11 38	12 02	1 45 W
1113	"	"	"		Astra II			12 04	12 24	2 07 W
1114	6760	19 6.1	+0 52		"			12 35	1 05	1 14 W
1115	6402	17 32.4	-03 11		E 40			1 08.5	1 33.5	3 17 W
1116	6205	16 38	36 39		"			1 43	1 48	
1117	6934	20 29.3	+7 4		"			1 54	2 19	1 05 W
1118	7089	21 28.3	-1 16		"			2 26	2 34	0 21 E
1119	6779	19 12.7	30 0					2 43	3 03	2 06 E
1120	6934	20 29.3	+7 4				(68°F)	3 08	3 30	2 11 W

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp.	REMARKS
9 27	1 37 W	+ 2 20	Fair 5			Strange
9 52	0 16 W					Cloudy (light)
[illegible] 22	0 4 W					
[illegible]	0 30 W					Telescope running off badly in RA.
11 30	0 27 E	- 30 05	Poor			& readjusted [illegible]; 1 large [illegible] dec axis,
2 02	1 45 W					Strong N wind; seeing going
12 24	2 07 W	- 03 12				Refocused; no change
1 5	1 14 W					
1 33.5	3 17 W					Taken thru [illegible]
1 [illegible]						Could not reach guiding eye piece at this position
2 [illegible]	1 05 W					
2 3[illegible]	0 21 E					
3 [illegible]	3 06 E					
3 [illegible]	2 16 W					

	d	h	ΔGMTA	ΔGMT Watch	ΔS.T.A.	ΔS.T. Watch
July	16	12	+3.8	-23.6	+44.6	+49.6

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
1121	NGC 6341	17 14.1	+43 15	N	E 40	–	(74°F)	9 08	9 23	0.31E
1122	5904	15 13.5	+02 27		"			9 29	9 39	1.45W
1123	6402	17 32.4	-03 11		"			9 45	10 20	2.06W
1124	6402	"	"		astra II			10 22	10 57	0.43W
1125	6254	16 51.9	-03 57		E 40			11 01	11 11	1.38W
1126	6779	19 12.7	+30 00		E 40			11 20	[illegible] 70	0.13E
1127	6402	17 32.4	-03 11		"			0 02	0 42	2.28W
1128	6760	19 06.1	+0 52		"			0 47	1 32	1.4W
1129	6205	16 38.1	+36 39		"			1 39	1 49	0.24W
1130	6934	20 29.3	+07 04		astra II			2 00	2 25	1.15W
1131	7089	21 33.3	-01 16		"			2 28	2 38	0.29W
1132	6934	20 29.3	+07 04		E 40			2 44	3 09	1.59W
1133	6934	"	"		astra II		(67°F)	3 10	3 30	2.20W

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp.	REMARKS
9 [illegible]	0 31 E		Fair to Poor			Clouds 2^m after start. Guide star intermittently visible
[illegible]	1 45 W					Clouds — Shut off 3^m.
[illegible]	0 06 W					Clouds } Lengthened 10^m due to haze.
10 57	0 43 W		Poor			Clouds
1 [illegible]	1 38 W					Haze
[illegible]	0 13 E					Thick clouds over most of sky at end.
[illegible]	2 28 W		Better			Smoke & clouds.
[illegible]	1 46 W					
1 [illegible]	4 31 W					Refocus
[illegible]	1 15 W					
[illegible]	0 29 W					
3 [illegible]	1 59 W					
[illegible]	2 20 W					Smoke bad at low altitudes latter half of night.

	d h	ΔΘ M.T.A.	ΔΘ M.T. Watch	ΔΘ S.T.A.	ΔΘ S.T. Watch
July	17 12	+2.2	−25.3	+44.2	+53.0
July	18^d 10^h	+1.8	−25.7	+44.6	+57.6

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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.	
1133 F	Focus			I-12	M Pan	010	23.2	--		3
-1134	HD 169028	18 17.6	51 18	"	Cstra II	"	23.2	10 26	1 36	4
1135	" 191745	20 06.4 1936	29.04	"	"	"	23.4	11 40	1 10	1
-1136	Nova Lac	22 13.2	55 20	"	"	"	23.5	1 15	2 45	2
	" "	" 1900	"	"	"	"	23.5	2 45	3 15	2
1137	H.D. 219634	23 12.2	61 25	"	"	"	23.5	3 23	4 03	3

24 Visitors showed Lyra, M13 with 74" 150
Jupiter, Comet P with 4¼

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp.	REMARKS
	base outside					no filter 3/2	Focus 26.27 Tilt 19.5
	0 46 W	51 18	1-	7.32	K_2	1½, 1½, 1½	Focus OK
	0 31 W	29 10	1	7.42	B9	1½, 1½, 2½, 2	
	0 01 W	55 18	1-3-1			2, 2, 2	setting 6 spots 30 s.
	0 32 W	55 18	1			2, 2, 2	" 9
	0 19 W	61 36	1	6.44	B8	2, 2, 2	
							Balance not too good

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1936

Date Sunday July 19-20 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 East	D
						Set		Watch time				
1138	HD 154713	17 02.0	43° 57'	I-12	Astra II	010	22.7	8 45	9 45	1	W	
1139	HD 166095	18 04.0	14 16	"	"	"	22.3	9 53	10 53	3	W	
1140	HD 180583	19 12.0	27 45	"	"	"	22.5	10 57	11 57	4	W	
1141	HD 192715	20 11.2	15 00	"	"	"	22.5	12 03	12 ~~50~~ 33	1		

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp.	REMARKS
[illegible] 1	14^m W	43° 54′	0–1	6.36	Ao	1½–1½–1½	
[illegible] 53 2	20^m W	14 16	0	6.36	A2	1½–1½–1½	
11 07 4	16^m W	27 48′	1	6.56.	F8p	1½–1½–1½	
12 33 1		15 06	0	7.19	Fo	1½– 3	Clouded thick at 12^30 – closed. 2^00

	C.T.	Δ⊖ M.T.A	Δ⊖ S.T.A.	Δ⊖ M.T. WATCH	Δ⊖ S.T. WATCH
July 20	12	+ 00·8	+ 40·8	-26·2	+18·6 Advanced 1^m

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 Hd
1142 setting 1	Focus			I-12	Extra II	010	21.1			3	
– setting 5	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	η Cae	22 13.2 (1936)	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	3	
1147	" 9709	01 30.0	46 36	"	"	"	21.5	~~3 39~~ 3 13	4 10	4	

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp.	REMARKS
	bad outside					no filters 3/2	Focus 26.27 Tilt 19.5.
[illegible]	W 1h03	36 35	var. ave 1	6.86	K5	1½, 1½, 1½	
[illegible]	W 1h11	15 38	1	6.23	B9	1½, 1½, 1½	Clouds 955 on. Thick 10.45; mid exp. 10.00
[illegible]	W 17m	32 06	1 → 3	7.07	A0	1½, 1½, 1½	for F.S.P.
[illegible]	E 31m	55 18	6 → 3			1½, 1½,	setting 5 }
2	E 12m		4			1½, 1½, 1½	" 9 } expts 30 s
[illegible]	E 34m	61 37	3	6.44	B8	1½, 1½, 1½	}
[illegible]	E 1h44m	46 46	2	7.00	B9	1½, 1½, 1½	}

Comet Peltier visible to naked eye.

		Δ⊙ M.T.A.	Δ⊙ S.T.A.	Δ⊙ M.T. Watch	Δ⊙ S. Watch
July 21	.13	+ 00.3	+ 41.3	− 26.5	+ 15.5

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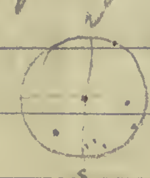
1936

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	
1148	Focus test			I-12	Astra II	010	Set 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 13	2		
1150	152153	16 46.6	+43 36	"	"	"	22.0	10 16	11 26	3		
1151	Comet Peltier	23 04 (1936)	+54.0	"	"	020	22.0	11 48	03 48	4		
	λ And	23 34.3	+46 06	"	"	"	21.8	3 51	3 [illegible]	1s		
								3 53	3 57	4m		
								3 57	3 57	5		

Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp.	REMARKS
base - outside					18/12	Focus 26.27 Tilt 19.5
0 18 W	+43 19	very var 5-1	7.14	K2	1½-1½-1½	
1 01 W	+46 38	3-4	6.77	A2	1½ 1½ 1½	
2 19 W	+43 32	3	7.37	K0	1½ 1½ 1½	
Initial 3 32 E	+54 05				2 – 2	1936 position estimated on atlas from marked [illegible]
Final 0 28 W	+53 50 (approx)					Condensed nucleus about 5" in diameter.
	+46 06		4.00	K0	No comp made ←	Image trailed with RA guiding
0 05 W						At 3^{37} comet crossed a fairly bright star (mag 7 or 8) Very confusing; star out on slit [illegible] star of [illegible] seconds



Each plate 40^s tube sensitometer

		C.T.	ΔΘM.T.A.	ΔΘS.T.A	ΔΘM Watch	ΔΘS. Watch
July	22	12	+00.0 (Removed 0.2)	+41.8	-26.8	+20.8

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Date July 24 - 25, 1936 Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.		Hour Angle Incl
- 1152	Focus			I-12	Extra II	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 38	4	
1156	" 194012	20 18.2	14 13	"	"	"	20.9	12 40	1 26	1	
- 1157	Nova Lac	22 13.2 (1936)	55 20	"	"	"	21.1	1 32	3 06	2	
							20.8	3 06	3 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
1	bare outside Focus 26.27, Tilt 19.5					no filters 3/2	
9 25	W 1h07	36 36	1	6.86	K5	1½ 1½ 1½	
[illegible]	W 33m	40 02	3	6.22	F8	1½ 1½ 1½	
[illegible]	W 45m	44 12	2	7.46	A5	1½ 1½ 1½	
[illegible]	W 14m	14 22	1	7.12	G5	1½ 1½ 1½	
[illegible]	W 1h00	14 21	2	6.64	F5	1½ 1½ 1½	
[illegible]	W 46m	55 19	3			1½ 1½ 1½	setting 5. } Spots 40 S
[illegible]	W 1h06					1½ 1½ 1½	setting 9 } Spots 40 S
[illegible]	W 48m	61 36	3	6.44	B8	1½ 1½ 1½	} Spots 40 S

	C.T.	ΔΘ M.T.A.	ΔΘ S.T.A.	ΔΘ M. Watch	ΔΘ S. Watch
July 23	12	-00.1	+41.9	-28.2	+29.6
July 24	12	-00.2	+42.4	-27.5	+36.4
July 25	10	-00.3	+42.5	-27.3	-18.3 Advanced 1 min.

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Saturday 1936

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 Ind
							Sat				
− 1159	HD 145849	16 08.1	+36 41	I-12	AstraII	010L	20.0	11 44	12 54	4	4 4W
− 1160	206155	21 35.1	+08 44	"	"	"	20.0	1 00	2 10	2	2 4W
1161	210334	22 04.6	+45 15	"	"	"	19.7	2 13	3 33	3	3 4W,
1162	216511	22 48.4	+46 01	"	"	"	18.6	3 36	4 20	4	4

75.6

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp.
[illegible]	4 41 W	+36 36	2	6.86	K5	$1\frac{1}{2}, 1\frac{1}{2}, 1\frac{1}{2}$
[illegible]	0 30 W	+ 8 53	3	6.8 v	A0	$1\frac{1}{2}, 1\frac{1}{2}, 1\frac{1}{2}$
[illegible]	(1 25 W)	+45 26		7.30	G5	$1\frac{1}{2}, 1\frac{1}{2}, 1\frac{1}{2}$
[illegible]		+46 12	3-4	6.68	B9	$1\frac{1}{2}, 1\frac{1}{2}, 1\frac{1}{2}$

REMARKS

80± Visitors; α Herc. & M13 with 74"; Moon, Jupiter, Pelter's [illegible]
with 4". 2300 Volt fuse blew again 10^{20}. Hydro. [illegible]

1936

Date Sunday July 26-27 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
-1163	Focus			I-12	Astra II	010				1	
	HD 145849	16 08.1	+36 41	I-12	Astra II	010		Mean 8 55 ↓ 8 40	9 21	1	2V

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp.	REMARKS
	Outside Base					18-12	
55							
0 2	1 12 W	+ 36 36	2	6.86	K5	1½	Region cloudy till start; scattered cloud thereafter. Totally cloudy 9h
							July 27 12 -00.7 +42.8 -28.2 -05.5

Date Monday July 27-28 1936 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 Ind
- 1164	HD 145849	16 08.1	+36 41	I 12	astraII	Set 010	26.0	8 42	9 22	2	1h 11m W
- 1165	HD 157482	17 18.4	+40 05	"	"	"	26.0	9 28	9 54	3	38m W
1166	HD 174621	18 46.3	+43 37	"	"	"	25.7	10 00	11 30	4	59m W
1167	HD 189013	19 52.9	+46 50	"	"	"	25.6	11 38	12 48	1	50m W
- 1168	HD 206155	21 35.1	+8 44	"	"	"	25.7	12 58	2 48	3	46m W
1168F1							Outside thru base				

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp.	REMARKS
8 32 3	1h 17m W	36 34	4	6.86	K5	1½-1½-1½	
9 14 3	38m W	36 .01	3	6.22	F8	1½-1½-1½	
11 3 4	47m W	43 .38	3	7.57	G5	1½-1½-1½	
12 48 1	59m W	46 .55	2	6.90	A2	1½-1½-1½	
2 6 3	46m W	+8 52	2-1	6.8	A0	1½-1½-1½	
						9-7	Setting 2
							July 28 12 -01.0 +43.0 -29.0 +02.2

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Date Tues July 28-29 1936 Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.		Hour Angle End
-1168 set 2	Focus			I-12	Astra II	010	25.0		mid 9.10	4	
set 6	HD 157482	17 18.4	40 05	"	"	"	25.0	8.25	9.31	"	4h 19m
set 10	"	"	"	"	"	"	25.1	9.31	10 01	"	2h 50m
1169	HD 164078	17 54.4	32 41	"	"	"	25.1	10 06	10 58	1	1h 11
1170	" 179838	18 09.0	29 03	"	"	"	24.8	11 01	12 01	2	4h 59m
1172	" ~~199479~~ 199478	20 52.4	~~43 59~~ 47 02	"	"	"	25.0	12 06	12 56	3	2h 11m
1173	" 199511	20 52.6	43 02	"	"	"	25.1	1 00	1 50	4	
- 1174	Nova Lac	22 13.2 1936	55 20	"	"	"	25.1	1 55	3 25	1	4h 20
	"			"	"	"	24.9	3 25	3 45		1h 41
1175	HD 219634	23 12.2	61 25	"	"	"	25.0	3 50	4 22	2	1h 17

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 19m		3	6.22	F_8	1½, 1½,	Thin clouds - Exposure very uncertain. Clearing at
	W 50m	40 02	2	"	"	1½, 1½, 1½	9.30 ∴ repeated.
	W 1h 11	32 39	1	6.96	F_5	1½, 1½, 1½	
	W 59m	29 06	1	6.93	A_0	1½, 1½, 1½	
	W 11m	47 10	2	~~6.66~~ 5.71	13.81 B_8	1½, 1½, 1½	mistaken identity, discovered Jan 5/39
	W 1h 05	43 10	1	6.74	B_8	1½, 1½, 1½	
	W 1h 20	55 18	2			1½, 1½, 1½	setting 3 | spots 40 s
	W 1h 41	"	2			1½, 1½, 1½	" 7
	W 1h 17	61 37	2	6.44	B_8	1½, 1½, 1½	
							July 29. 12 -01.1 -00.5 stopped + reset -29.6 +07.8

Date July 29-30 1936 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 09 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	1 06 W +
1181	HD 1826	00 17.6	+28 55	"	"	"	18.6	3 12	4 20	2	0 13 W +
F_1	Focus (outside turn base)			"	"	"	19.0				

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp.	REMARKS
8 56 1	0 04 W	+43 54	2	6.36	A0	1½-1½-1½	
10 29 2	0 52 W	+44 55	2	7.8	F0	1½-1½-1½	guided on lower star in grouding field
11 27 3	0 42 W	+43 38	2	7.0	A2	1½-1½-1½	
12 55 4	1 22 W	+27 42	2	7.5	G5	1½-1½-1½	clouds over most of sky except extreme
3 4 1	1 10 W	+45 26	2	7.3	G5	1½-1½-1½	northern portion 1.00 to 1.50
4 20 2	0 13 W	+29 05	2	7.0	A3	1½-1½-1½ no filters 3/2	setting 8
							setting 3 Focus: 26.27 Tilt: 19.51
							bulb fell out of circle light. Remains in desk drawer
							July 30 . 12 -01.1 +00.1 ΔΘM watch -29.3 ΔΘS watch +13.3

1936

Date July 30-31 Thursday 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	D
						Set	Set					
- 1182	Focus			I·12	Astra II	010	19.0	7 45		1		
								Call mean 8 45				
	HD 145849	16 08.1	+36 41	"	"	"	19.0	8 20	9 05	1		
1183	151388	16 42.0	+43 24	"	"	"	19.0	9 07	9 52	2		
1184	164898	17 58.3	+45 21	"	"	"	19.2	9 56	11 11	3		
1185	181799	19 16.8	+60 46	"	"	"	19.0	11 15	12 05	4		
- 1186	206155	21 35.1	+08 44	"	"	"	19.0	12 10	1 10	1		
1187	210334	22 04.6	+45 15	"	"	"	19.2	1 13	[illegible]	2		
1188	217491	22 56.0	+44 50	"	"	"	19.0	2 15	[illegible]	3		
1189	3081	00 28.9	+31 05	"	"	"		2 50	4 [illegible]	4		
	Focus											

Hour Angle End	Declination		Seeing	Ptg. Mag.		Comp.	REMARKS
	Outside - base					15/10	
1 11 W	+ 36	35	2	6.86	K5	1½ 1½ 1½	thin Scattered clouds during first half
1 25 W	+ 43	20	2	7.14	K2	1½ 1½ 1½	
1 28 W	+ 45	21	3-4	7.42	B9	1½ 1½ 1½	
1 04 W	+ 60	50	3	7.01	B9	1½ 1½ 1½	
0 10 E	+ 08	54	2-1	6.8 v.	B8	1½ 1½ 1½	
0 24 W	+ 45	26	2-3	7.3	G0 5	1½ 1½ 1½	
0 04 W	+ 45	02	3	6.50	A2	1½ 1½ 1½	
0 10 W	+ 31	16	2	8.00	F2	1½ 1½ 1½	
	Outside base					15/10	
							Sensitometer 30s each

				M.T. watch	S.T. watch
July 31	12	-01.0	+00.1	-28.3	+20.6

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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.	
1190	HD 164059	17 54.3	45 53	I - 12	Astra II	Set 010	Set 23.0	Watch [illegible] 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
July 1193	HD 190227	19 58.9	31 40	"	"	"	23.1	11 08	12 04	4
Aug. 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	22 046	+45 15	"	"	"	22.8	1 51	2 31	3
1197	HD 219291	23 09.6	+29 13	"	"	"	22.7	2 36	3 16	4
1198	HD 3291	00 309	+44 06	"	"	"	22.7	3 23	4 23	1
	Focus.			Outside thm base						

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp.	REMARKS
9:2 1	15m E	+45 52	3	7.2	F5	1½-1½-1½	Mean time watch run down
2	17m W	51 18	3	7.3	K2	1½-1½-1½	used my own watch ΔΘ = -1m
3	28m W	44 08	3	7.0	A2	1½-1½-1½	
4	24m W	31 45	3	7.5	K0	1½-1½-1½	
12 12 1	35m W	43 13	4	7.2	K0	1½-1½-1½	
1 5 2	29m W	+8 52	3	6.8	A0	1½-1½-1½	
3	45m W	45 26	2	7.3	G5	1½-1½-1½	
2	26m W	29 24	2	6.8	F5	1½-1½-1½	
1	11m W	44 16	3	7.3	B8	1½-1½-1½	
						12/8	

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

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Date Aug 1-2 1936 Hol Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	
1199	Focus			I-12	Cartin II	010	26.4			1
	HD 190167	19 58.6	28 14	I-12	Cartin II	010	26.4	11 01	11 39	
1200	HD 189706	19 56.3	29 32	"	"	"	26.5	11 45	1 05	2
- 1201	Nova Lac	22 13.2	1936 55 20	"	"	"	26.3	1 11	2 41	3
	"	"	"	"	"	"	26.5	2 41	3 01	
1202	HD 2453	00 23.2	31 53	"	"	"	26.4	3 06	3 47	4
1203	" 10638	01 38.7	32 01	"	"	"	26.6	3 51	4 29	1

About 500 visitors. Hd showed & Here with 74". 174
5 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 band.			13/9	
	W 3m	28 20	3	6.77	Bq 1½, 1½, 1½	
	W 1h 32	29 38	2	7.40	A0 1½, 1½, 1½	8 spots 40 S
	W 52m	55 17	3.		1½, 1½, 1½	setting 3
	W 1h 12	"	3.		1½, 1½, 1½	" 7
	E 14m	32 04	3	6.71	Aop 1½, 1½, 1½	Light clouds
	E 46m	32 12	3	6.36	A3 1½, 1½, 1½	" "

Aug. 4 12 -01.1 -00.1 -10.6 -12.0
Advanced 1m

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1936

Date Tuesday, August 4-5, 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
1203 F1	Focus				E 40	020 Sat 010	Set. 23.3	7 50		1		
1204	HD 183794	19 26.1	-02 19	I - 12	Astra II	0.1.0	23.2	8 21	11 41	2		
1205	189613	19 55.8	+31 35	"	"			11 45	12 [illegible]	3		

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp.	REMARKS
		Outside - brass				no filter 3/2	26.27 (OK) 2 exposures - (first had wide slit)
	0 49 W	-2 14	1	6.8	B8	1½, 1½, 1½	Very bad smoke. Some clouds. Developed; very weak.
		+31 39		6.69	A0	1½	Too thick.

	C.T.	Δ⊖ M.T.A.	Δ⊖ S.T.A.	Δ⊖ M.T. watch	Δ⊖ S.T. watch
Aug. 5	12	-01.2	00.0	-11.0	-05.5
6	12	-01.3	+00.1	-10.5	+03.1

1936

Date Thursday, August 6-7, 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.	
- 1205	Focus test			I-12	Astro II	010	Set 23.5	7 35		1
	HD 145849	16 09.1	+ 36 41	"	"	"		8 16	8 56	
1206	176 377	18 54.9	+ 30 02	"	"	"	23.5	8 59	9 59	2
- 1207	183 794	19 26.1	- 02 19	"	"	"	23.5	10 03	11 [illegible]	4
- 1208	206 155	21 35.1	+ 08 44	"	"	"	23.6	11 26	12 [illegible]	1
1209	210 334	22 04.6	+ 45 15	"	"	"	23.7	12 32	1 42	2
- 1210	Nova Lacertae	22 13.2	+ 55 20	"	"	"	23.5	1 46	2 [illegible]	3
	"			"	"	"	23.5	2 46	3 [illegible]	3
1211	H.D. 222275	23 34.1	+ 61 35	"	"	"	23.8	3 04	3 [illegible]	4
1212	6210	00 58.1	+ 61 04	"	"	"		3 57	4 29	

Fri 2 PM: Aug 7 Hd-MR

1212F	Focus			I-~~25~~	M Pan	010	20.8			4

Ending Time E.S.T.	Hour Angle End	Declination		Seeing	Ptg. Mag.		Comp.	REMARKS
	Outside - base.						no filter 3/2	26.27 focus; 19.5 tilt
	1 30 W	+ 36	35	1-2	6.86	K5	1½ 1½ 1½	
	13 m E	+ 30	05	1-2	7.11	G0	1½ 1½ 1½	
	0 39 W	- 02	15	2	6.8 v	B8	1½ 1½ 1½	
	0 26 E	+ 08	53	2	6.8 v	A0	1½ 1½ 1½	
	0 20 W	+ 45	25	2-3	7.30	G5	1½ 1½ 1½	Ran dec screw back a bit; near end.
	1 23 W	+ 55	17				1½ 1½ 1½	setting 3 }
	1 39 W						1½ 1½ 1½	" 7 }
	1 43 W	+ 61	48	3	6.78	A2	1½ 1½ 1½	
		+ 61	13	3	6.38	F8	1½ 1½ 1½	
								Tube sensitometer - 40° each.
								Some smoke much of night.
	base outside						no filters 6/4	Setting 1 Focus 23.2 | Tilt 23.25
							"	" 5 " 23.4
							"	" 9 23.6
								Best focus 23.4

Date Friday August 7-8 1936 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.	
- 1213	HD 145849	16 08.1	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 γ Cas	00 50.7	60 43	"	"	010	25.1	at 2.30	30 s	1
								at 2.32	1 m	
								at 2.36	2 m	
- 1217					"			at 2.39	30 s	2
								at 2.41	1 m	
								at 2.45	2 m	
- 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	010	25.1	3 35	4 30	3

Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp.	REMARKS
3 00W	36 36	2-3	6.86	K5	3-3-3	Aug 7 12 M.T.A. -01.4 S.T.A +00.2 M.T.watch -09.7 S.T.watch +33.2
1h 14m W	60 21	5	6.27	A2	3-5-3	"Hazing up at 9.45 Developed 1213
1h 02 W	45 25	5	7.30	G5	4,4,4	Spots 40s " 1214
	60 22	4	2.01	B0p	12	set 1 spots 40s
					12	" 5
					12	" 9
at 3.07 hr L = 57m E.		4			12	set 1 Spots 40s | broke in plate holder.
					12	" 5
					12	" 9.
		6			no filters 12-12	set 1 Spots
					12,12	" 5 5-3
					12,12	" 9 (2x length slit).
1h 03 W	31 09	6	5.80	A0	4,4,4	

Certain amount of haze and/or smoke all night.

Date Saturday August 8-9 1936 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 30 AM		2		
- 1220	Focus test			I-12	Astro II	010	Set 25.7	10 00 AM		1		
	HD 145849	16 08.1	+36 41	"	"	"	25.5	10 07	11 17	1		
~~1221~~	~~189613~~	~~19 45.8~~	~~+44 07~~	~~"~~	~~"~~	~~"~~	~~"~~	11 27	~~[illegible]~~	2		
- 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	[illegible]		
1224	6475	01 00.7	+59 20	"	"	"	25.5	3 34	4 34	3		

Ending Time I.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp.	REMARKS
2	Outside – base					no filter 4/3	Tilt 195 Setting 1 — Focus 26.20; 5 — 26.30; 7½ — 26.27 } Best 26.16?
							ΔθMTA ΔθSJ.A. ΔθMT.watch ΔθST.watch
							Aug 8d 10h −01.4 +05.2 −09.7 +21.7
							about 80 visitors. Showed K Hercules and Ring Nebula
	Outside – base					no filter 4/3	with 74"; Jupiter + M13 with 4"
11	4 00 W	+36 35	2	6 86	K5	1½, 1½ 1½	
2	~~—~~	+44 12		6.77	B8	1½;	double star; N brighter of pair; Too faint for conditions
3	0 30 W	+08 52	2	6 8 v	A0	1½, 1½, 1½	
	1 31 W	+58 58	3 – 4	7.28	K2	1½ 1½ 1½	
	0 48 W	+61 45	4	6.78	A2	1½, 1½ 1½	
	0 23 W	+59 30	4	6.78	A0	1½, 1½	Stray.

Thick smoke early evening.

Date Monday Aug. 10-11 S-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
	σ Oph	Focus		Newtonian			70°F			
1225	NGC 6254	16 51.9	-03 57	"	E 40			8 34	8 44	0 50 W
1226	6402	17 32.4	-03 11	"	"			8 53	9 23	0 49 W
1227	6402	"	"					9 25	9 50	5 W
1228	6760	19 06.1	+00 52					10 02	10 47	0 39 W
1229	6402	17 32.4	-03 11		Astro II			10 57	11 27	[illegible]
1230	6402				"			11 28	11 [illegible]	[illegible]
1231	6205	16 38.1	+36 39		"			12 08	12 13	[illegible]
1232	6934	20 29.3	+07 04		"			12 24	12 [illegible]	1 11 W
1233	6341	17 14.1	+43 15					0 57	1 [illegible]	[illegible]
1234	6779	19 12.7	+30 00					1 12	1 3[illegible]	[illegible]
1235	6934	20 29.3	+07 04					1 53	2 28	[illegible]
1236	7089	21 28.3	-01 16					2 31	2 46	[illegible]
1237	6934	20 29.3	+07 04					3 29	3 44	[illegible]
1238	7078	21 25.2	+11 44					3 48	4 03	[illegible]

Hazy all day; clearing in early evening, but still rather thick at low altitude at dark.

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp.	REMARKS
						Aug. 10 No time signals. Say: −01.5 +10.1; M.T. watch −10.0; S.T. watch +35.3.
	Within 0.2 mm of position of last one.					
[illegible]	0 50 W		v. poor			Readjusted guiding eyepiece after this plate
[illegible]	0 48 W		better			Exposure shut off twice due to car lights.
[illegible]	1 15 W		fair to poor			M developed 1226 + 1225 Shut off for 1 car.
[illegible]	0 38 W					
[illegible]	2 52 W					Oiled plateholder guiding screws.
[illegible]	3 23 W.					Developed 1227–1228
[illegible]	4 34 W					
[illegible]	1 18 W					Refocus
[illegible]	4 52 W					
[illegible]	3 24 W					⟵ Power went off about 4 minutes.
[illegible]	2 57 W		poor			Refocus Clouds after first 2 min.
[illegible]	2 15 W					[illegible] Solid at close.
3 [illegible]	(4 [illegible] W)					Clouds, very poor [illegible].
4 [illegible]	3 36 W					5 [illegible] all [illegible] 1231 [illegible]

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
	σ Oph	Frame + recollimated,			Refocused,					
1239	NGC 6779	19 12.7	+30 00		Astro II			8 48	9 03	[illegible]
1240	6402	17 32.4	-03 11					9 09	9 39	[illegible]
1241	6402							9 40	10 05	[illegible]
1242	6254	16 51.9	-03 57					10 09	10 19	[illegible]
1243	6760	19 6.1	+0 52					10 36	11 09	[illegible]
1244	6402	17 32.4	-3 11					11 19	11 54	[illegible]
1245	6981	20 48.0	-12 55					12 01	12 26	[illegible]
1246	6205	16 38.1	+36 39				62° F	12 34	12 42	[illegible]
1247	6341	17 14.1	+43 15					12 46	12 56	[illegible]
1248	6934	20 29.3	+07 04					1 04	1 29	[illegible]
1249	6779	19 12.7	+30 00					1 37	1 57	[illegible]
1250	6341	17 14.1	+43 15					2 05	2 15	[illegible]
1251	6934	20 29.3	+07 04					2 23	2 45	[illegible]
1252	Saturn				E. Pro			2 58		
1253	"				E 33				3 03	[illegible]

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp.	REMARKS
						C.T. ΔΘ M.T.A. ΔΘ S.T.A. ΔΘ M.T. watch ΔΘ S.T. watch
						Aug. 11. 19 -02·2 +00·1 -09·5 -07·4
[illegible]	1 07 E		Fair?			Advanced 1m. Mirror rather astigmatic.
[illegible]	1 08 W					Mrs [illegible] developed 1st plate.
[illegible]	1 35 W					
[illegible]	2 29 W		Better.			
[illegible]	1 05 W					← Refocus. [illegible] developed 3 plates
[illegible]	3 24 W					
[illegible]	0 40 W					
[illegible]	5 07 W					
[illegible]	4 46 W		Good			
[illegible]	2 02 W					Bright meteor crossed centering eyepiece field. Refocus
[illegible]	3 47 W					[illegible] developed 5 plates
[illegible]	(6 05 W)					
[illegible]	3 22 W					Refocusing
						4 exposures of [illegible] 1s [illegible] 6s [illegible]
[illegible]	0 37 W					

(continued)

Date Tuesday, August 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
1254	NGC 7089	21 29.3	-01 16	Newtonian	Astra II			3 11	3 21	2 55 W
1255	6934	20 29.3	+07 04					3 25	3 55	4 21 W
1256	7078	21 25.2	+11 44					4 01	4 11	3 49 W

Ending Time B.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp.	REMARKS
3 2	2 55 W					
3 [illegible]	4 28 W					H Developed 5 plates
4 [illegible]	3 49 W					

	C.T.	ΔΘ M.T.A	ΔΘ S.T.A.	ΔΘ M.T. watch	ΔΘ S.T. watch
Aug. 12	12	−02·2	+00·1	−06·7	−23·9

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Date Wednesday, Aug 12-13 S-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	D
	σ Ophi	Focus		Newt.			72°F				
1257	NGC 6402	17 32.4	-03 11	"	Astro II			9 47	9 57		

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp.	REMARKS
						Haze + clouds in afternoon. Clearing (?) 9[15] EST.
						Filling in from North. Guide star lost.

	C.T.	Δ⊖ M.T.A	Δ⊖ S.T.A.	Δ⊖ M.T. watch	Δ⊙ S.T. watch
Aug. 13	12	− 02·3	−00·1	−03·3	−19·1
Aug. 14	12	− 02·4	−00·0	−06·9	−12·5
Aug. 15	12	− 02·2	+ 00·4	−06·2	−04·4

Date Saturday Aug 15-16, 1936 M-MB Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	PH.	Hour Angle End
1258	H.D 188170	19 48.8	28 44	I-12	Astra II	.010	25°.8	10 05	12 05	4	1 [illegible] W [illegible]
1259	210646	22 06.7	27 14	—	—	—	26.5	12 09	2 01	1	1 13 W 2
1260	224166	23 50.6	45 48	—	E.40	—	26.4	2 05	3 35	2	1 03 W 4
1261	9996	1 32.5	44 54	—	—	—	26.3	3 38	4 34	3	0 20 W 4

About 30 visitors. Showed Jupr. M 57

Jupiter as usual in 4¼"

Ending Time E.S.T.	Hour Angle End.	Declination	Seeing	Ptg. Mag.		Comp.	REMARKS
12 54	1 35 W	28 47	0	7.17	A0	1½, 1½, 1½	
2 01	1 13 W	27 24	0	7.07	A0	1½, 1½, 1½	
3 35	1 03 W	45 59	1	6.82	B9	1½, 1½, 1½	
4 [illegible]	0 20 W	45 03	1	6.34	A0	1½, 1½, 1½	

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Date Sunday Aug 16-17 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.	
1261 F1				I-12	E-40	.010	27°.0			4
1262	HD 169247	18 18.7	14 39	—	Astra II	—	27.1	8 10	9.00	1
1263	169820	18 21.4	14 55	—	—	—	27.0	9 05	9.49	2
1264	179218	19 6.6	15 37	—	—	—	26.7	9 51	12 05	3
1265	209679	22 00.1	43 52	"	"	"	25.6	12.16	1 26	4
~~1266~~	~~224801~~	~~23 55.7~~	~~44 42~~	"	"	"	—			1

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp.	REMARKS
	base outside					13 8	
1	0 03 W	14 39	1	6.67	B9	1½, 1½, 1½	—
9-9	0 50 W	14 55	1	6.43	B9	1½, 1½, 1½	
2	2 20 W	15 39	1	7.13	B9	1½, 3	some haze in region 10.15 thicker 10.30 smoke and haze 10.45
	0 49 W	44 02	0	6.63	A2	1½-1½-1½	heavy clouds star repeatedly disappearing.
				6.25	App		filled in completely at 1.30

Aug 17 d 12 h	ΔGMTA	ΔG.S.T.A.	Δ G.M.T. Watch	Δ G.S.T. Watch
	-3.3	-5.4	-7.3	+1.8

1936

Date Monday August 17-18, 5-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.
	σ Oph	1936 17 23.2	+ 4 12	Newtonian	Focus test			7 50	
1266	NGC 6779	1900 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 18	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 [illegible]
1272	6402	"	"		E 40			10 53	11 23
1273	6981	20 48.0	- 12 55		Astra II			11 41	12 06
1274	6934	20 29.3	+ 7 04		"			12 14	12 39
1275	{ 6779	19 12.7	30 00		"			12 45	1 [illegible]
	{ 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 38
1279	6779	19 12.7	+ 30 00		"			2 45	3 10

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp.	REMARKS
			Poor			Seeing evidently poor, mirror somewhat astigmatic.
[illegible]	1 12E		Very poor			Seeing blowing up
[illegible]	1 09W					Refocused on 5 Apts before this plate. Exp. shut off twice for auto lights
[illegible]	1 40W					Developed 1266+1267 (2 plates)
[illegible]	2 34W					
[illegible]	3 00 W					couldn't reach guiding eyepiece
[illegible]	2 41 W					Refocused on 5 Apts. Exposure stopped because eyepiece [illegible]
[illegible]	3 26 W					
[illegible]	0 43 W					Guiding sitting down. Narrow opening in platform rail. Developed 1268-1271 (4 plates)
[illegible]	1 35 W					
[illegible]	3 20 W	+30 01				Refocused on star near 6734
[illegible]	3 07 W	+30 00				
[illegible]	6 01 W					
2 0[illegible]	6 56 W					
2 3[illegible]	3 35 W					Developed 5 plates.
[illegible]	5 24 W					

(Continued) 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.	Hour Angle Incl	D
1280	NGC 6934	20 29.3	+07 04		E 40			3 14	3 44	4h 11	
1281	7089	21 28.3	-01 16		"			3 49	3 59	[illegible]	
1282	7078	21 25.2	+11 44		"		57°F	4 04	4 16	[illegible]	

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp.	REMARKS
3 --	4 41 W					Heavy train smoke Developed 3 plates.
[illegible]	3 57 W					
7 [illegible]	4 17 W					Δθ M.T.A Δθ S.T.A Δθ M.T. Watch Δθ S.T. Watch
						Aug 18^d 12^h −03.3 +05.7 −07.3 +18.7

1936

Date Tuesday, August 18-19, 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 and
1283	NGC 6779	19 12.7	+ 30 00	Newt.	E 40		66°F	8 17	8 32	[illegible]
1284	6402	17 32.4	- 03 11		"			8 36	9 11	1 07W
1285	5904	15 13.5	+ 02 27		"			9 14	9 24	2 45W
1286	6254	16 51.9	- 03 57		"			9 27	9 37	2 44W
1287	6402	17 32.4	- 03 11		Astra II			9 43	10 23	2 24W
1288	6934	20 29.3	+07 4		"			10 28	10 53	1 17E
1289	6205	16 38.1	+36 39		E 40			10 58	11 08	[illegible]
1290	6402	17 32.4	- 03 11		Astra II			11 13	11 38	3 55W
1291	7089	21 28.3	- 01 16		E 40			12 03	12 18	0 20W
1292	6934	20 29.3	+07 04		Astra II			12 25	1 00	[illegible]
1293	6205	16 38.1	+36 39		E40			1 04	1 15	[illegible]
1294	6779	19 12.7	+30 00		"			1 18	1 30	[illegible]

Cloudy all afternoon; clearing. Partly cloudy at start.
Thick around horizon.

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp.	REMARKS
8 22	1 12 E	+30 02	Poor			Focused on σ Ophi.
8 41	1 07 W					
9 24	3 40 W					
9 59	2 14 W					
0 23	2 20 W		Improving			Refocused on σ Ophi before this exposure.
0 53	0 07 E		Fair			
[illegible]	4 00 W					
[illegible]	3 55 W					Thickening. Very thick in south west
[illegible]	0 20 W		Good			thick in south
[illegible]	2 00 W					
15	6 06 W					Guide star lost in clouds.
15	3 48 W					Guide star lost half the time
						ΔUTA ΔS.T.A. ΔM.T. Watch ΔS.T. Watch
						Aug 19 d 12 h −03.5 +06.1 −07.0 +24.9

1936

Date Wednesday, August 19-20, 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.	
- 1295	HD 183794	19 26.1	-02 19	I-12	Astra II	set .015	+26.1	9 49	10 50	1
- 1296	206155	21 35.1 1936	+08 44	"	"	.010	+25.9	10 57	12 17	2
- 1297	Nova Lacertae	22 13.2	+55 20	"	E 40	"	+25.9	12 32	2 02	3
	"	"	"	"	"	"	+25.9	2 02	2 37	
1298	H.D. 222275	23 34.1	+61 35	"	"	"	+25.9	2 31	3 31	4
(1299)	1826	00 17.6	+28 ~~05~~ 55	"	"	"	+25.8	3 36	4	
1298 F1	Focus test									

Clouds most of day. Light shower 8^00 EST.
Smoke.

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp.	REMARKS
[illegible]	0 57 W	-02 14	1-0	6.8 v	B8	1½ 1½ 1½	appears very faint - hazy at low altitudes Spole 40^s
[illegible]	0 15 W	+08 55	2	6.8 v	A0	1½ 1½ 1½	" "
[illegible]	1 25 W	+55 19	2-3			1½ 1½ 1½	Setting 3 " "
[illegible]	1 50 W		2-3			1½ 1½ 1½	" 7
[illegible]	1 32 W	+61 46		6.78	A2	1½ 1½ 1½	" "
[illegible]				6.9	A3	1½, no filter	setting 3 Clouded out just after start.
	Interval - base					5/3	6

	ΔΘ M.T.A.	ΔΘ S.T.A.	ΔΘ M.T. Watch	ΔΘ S.T.W.
Aug 20^d 12^h	-3.8	+6.8	-7.6	+28.5

Date Thursday, August 20, 21 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	D
- 1299	Focus Test			I-12	E-40	Set .010	Set 22.7				
	HD. 183794	19 26.1	-02 19	"	"	"		8.18	10.18 1		
- 1300	" 206155	21 35.1	+08 44	"	"	"	22.9	10.23	11 43 2		
1301	" 206963	21 40.6	46 24	"	"	"	22.8	11 47	1 13 3		

Ending Time E.S.T.	Hour Angle End	Declination		Seeing	Ptg. Mag.		Comp.	REMARKS
		outside base					5/3	no filters Focus 26.17 (slightly short)
[illegible]	0 30 W	-02	14	1	6.8 v	B8	1½-1½-1½	Intermittent clouds. [illegible]
[illegible]	0 14 E			1	6.8 v	A0	1½-1½-1½	
[illegible]	1 11 W	46	36		7.04	F5	1½-1½-1½	hazy - pretty thick at 1 10

Clouds. Rain 2^{00}

	ΔθM.T.A.	ΔθS.T.A.	ΔθM.T.Watch	ΔθS.T.W.
Aug 21^d 12^h	-03.9	+11.4	-07.7	+33.9

	ΔθM.T.A	ΔθS.T.A.	ΔθM.T.Watch	ΔθS.T.W.
Aug 22^d 10^h	-04.0	+42.8	-08.3	+39.3

205

Date Saturday Aug 22-23, 1936 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
1301 F,				I-12	E-4.0	.010	18°.5			4	
1302	H.D. 197961	20 42.0	46 00	—	Astra II	-	18.5	10 25	11 05	3	
1302 F				—	F 40	-	18.5			1	
1303	208835	21 53.9	46 23	—	Astra II	—	18.3	11 14	1 10	4	

About 40 visitors, showed [illegible]
Moon, Jupiter, Saturn in 4¼"

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp.	REMARKS
		base outside.				14 / 9	Sky hazy in south with lightning.
3	0 09W	46 08	1	6.63	A0	1½ 1½ 1½	
		base outside.				1/14 / 9	Set focus to 25.20 focus O.K.
	1 02W	46 35	2	7.39	A0	1½, 1½, 1½	lightning all around horizon. [illegible]
							lightning worse – [illegible] 1.00
							Closed – 1.15.

Date Sunday, August, 1936 23-24 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 Incl
- 1304	H.D 206155	21 35.1	+8 44	I - 12	Astra II	Set .010	Set 24.5	11 34	12 49	3	
1305	217754	22 57.8	+31 14	"	"	"	24.7	12 53	1 43	4	
1306	4817	00 45.2	+61 16	"	"	"	24.7	1 47	3 02	1	
1307	16933	02 37.8	+46 26	"	"	"	24.7	3 06	4 21	2	
1308	26015	04 02.0	+14 54	"	"	"	24.6	4 30	4 56	4	
	Focus test										

Clouds late afternoon + early night. Clearing from W. t.

Ending Time E.S.T.	Hour Angle End	Declination		Seeing	Ptg. Mag.		Comp.	REMARKS
[illegible]	1 04 W	+08	53	1	6.8 V	A0	1½ 1½ 1½	
[illegible]	0 36 W	31	26	1	6.74	F0	1½ 1½ 1½	
[illegible]	0 07 W	61	27	2–3	7.43	K2	1½ 1½ 1½	
[illegible]	0 22 E	46	35	2–3	7.40	F5	1½ 1½ 1½	
[illegible]	1 16 E	+15	00	3	6 22	F0	1½ 1½ 1½	Guided to keep 8th mag comp in (4") off [illegible]
	Outside – base						no filter 4/3	From 26.20

	ΔGMT.A.	ΔGST.A	ΔGMT.Watch	ΔGST.W
Aug 24d 12h	−04.2	+44.4	−07.7	+49.4

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Date Monday Aug 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
1309	HD. 176209	18 54.1	45 43	I-12	Astra II	.010	25°.2	7 52	9 22	1	0 22.4
~~1310~~	~~187613~~	~~19 45.8~~	~~44 07~~	—	—	—	~~24.5~~	~~9 38~~		~~2~~	

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp.	REMARKS
9 22 1	0 22 W	45 47	2	7.21	A0	1½, 1½, 1½	some cloud during exposure
7				~~6.77~~	~~B8~~	~~1½,~~	exposure delayed because of clouds. Took N and apparently bluer star

clouds thick just after exposure started.

closed dome at 10:15 for fear of rain

remained thick with plenty of lightning

shut up at 12:00

		ΔΘ M.T.A.	ΔΘ S.T.A.	ΔΘ M.T.W.	ΔΘ S.T.W.
Aug 25^d	13^h	−04.2	+44.6	−07.7	+54.6
Aug 26^d	12^h	−04.4	+44.4	−07.7	+57.9

Date Wednesday - Aug 26-27 1936 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
1310	H.D. 183794	19 26.1	-2 19	I -12	Astra II	.010	17°.0	8 50	10 20	3	
1311	BD. 56° 2640	21 43.1	+56 28	—	—	.020 M	17.5	10 42	12 46	4	
1312	H.D. 222922	23 39.8	+43 11	—	—	reset .010	18.2	1 01	1.45	1	
	Focus Test										

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp.	REMARKS
[illegible] 50 3	0 55 W	−2 14	1	6.8–7.1	B8	1½, 1½, 1½	Cloudy all day – cleared after sunset. image wandered badly at 11.50. spectrograph shifting? Heard faint click.
12 46	1 05 W	+56 38	2	9.0	—	1½, 1½, 1½	spots 30 sec.
1 45	0 06 W	+43 25	2	6.82	A0	1½, 1½, 1½	1.45: image gone. clouds over all northern sky
							3.00: completely clouded up; closed.
	Base Outside					no filter +1 3	setting 8½.

	d	h	Δ⊖ M.T.A	Δ⊖ S.T.A.	Δ⊖ M.T.W	Δ⊖ S.T.W
Aug	27	12	−04.5	+44.2	−5.0	+64.4
					Set. −	+04.4

Date Thursday Aug. 27-28 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	D
1313	Focus test			I-12	Astra II	010	Set 20.5	7 15				
	HD 168271	18 13.8	+12 56	"	"	"	20.5	7 40	8 25	1		
1314	168431	18 14.5	+12 09	"	"	"	20.5	8 27	9 57	2		
1315	206155	21 35.1	+08 44	"	"	"	20.5	10 01	11 21	3		
1316	203574	21 18.0	+60 21	"	"	"	20.5	11 28	12 23	4		
1317	221671	23 29.0	+59 29	"	"	"	20.5	12 30	2 00	1		
1318	5459	00 51.3	+60 53	"	"	"	20.5	2 04	3 14	2		
1319	4817	00 45.2	+61 16	"	"	"	20.5	3 20	4 20	3		
1320	20536	03 13.1	+61 38	"	"	"	20.5	4 25	5 00	4		

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp.	REMARKS
	Outside three bases			no filter		3/2	Focus 26.20
[illegible]	0 16 W	+12 57	2-1	6.54	B9	1½ 1½ 1½	
[illegible]	1 48 W	+12 10	2-1-0	6.88	B8	1½ 1½ 1½	Light clouds over star 8 37 – 8 55 Seeing blew up. Haze
[illegible]	0 10 E	+08 53	1	6.8 v	A0	1½ 1½ 1½	
[illegible]	1 16 W	60 29	1	7.24	K0	1½ 1½ 1½	
[illegible]	0 37 W	59 42	1	7.41	F0	1½ 1½ 1½	
[illegible]	0 28 W	61 05	1-2	7 40	G5	1½ 1½ 1½	
[illegible]	1 40 W	61 27	1	7.43	K2	1½ 1½ 1½	
[illegible]	0 08 E	61 46	1	6.60	B8	1½ 1½ 1½	

Great trouble guiding 1314. Slow motion (RA) differential turning too freely, so as to not drive.

		ΔΘ M.T.A.	ΔΘ S.T.A.	ΔΘ M.T.W.	ΔΘ S.T.W.
Aug 28	12 h	-04.5	+46.1	-02.0	+09.1
Aug 29	10 h	-04.5	+50.3	+00.5	+14.3
				Stopped & [illegible]	
Aug. 31	12	-05.1	+31.2	+21.4	-08.3

1936

Date Monday Aug 31 - Sept 1 Y - L **Julian Day**

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.		Hour Angle End	D
1321	HD 176003	18 53.0	44 05	I 12	Astra II	Set 010	Set 17.0	7 37	8 27	1	E	4
1322	HD 176053	18 53.3	31 52	"	"	"	17.0	8 32	9 32	2	1h00 W	3
1323	HD 199986	20 55.5	45 52	"	"	"	17.0	9 37	10 27	3	0h E	4
1324	HD 202351	21 10.1	16 04	"	"	"	16.9	10 33	11 3[illegible]	4	0.5h W	
1325	HD 218043	22 59.8	30 45	"	"		16.9	11 38	12 50	1	12 W	3
	Focus test			Outside thru base								
1326	H.D. 1826	00 17.6	28 55	"	"	"	16.9	12 56	1 56	2	0 00	2
1327	10588	01 38.2	31 43	"	"	"	17.1	2 01	3 21	3	15W	3
1328	17656	02 45.0	46 25	"	"	"	17.0	3 26	4 16	4	07E	
1329	27483	04 15.2	13 38	"	"	"	17.1	4 22	5 00	2	53E	3

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp.	REMARKS
1	5m E	44 09	2	7.00	A2	1½-1½-1½	
2	1h 00 W	31 56	2	7.18	A3	1½-1½-1½	
3	7m E	46 02	2	7.09	A2	1½-1½-1½	
	45m W	16 13	2-1	7.02	F0	1½ 1½-1½	clouds at end
	0 12 W	30 58	2-1	7.12	F2	1½ 1½ 1½	Setting 1
						3/2	No Filters Focus as left Setting 3.
	0 00	29 06	2-1	7.0	A3	1½ 1½ 1½	
	0 05W	31 53	2-1	7.2	G5	1½ 1½ 1½	
	0 07E	46 36	2-1	6.75	G5	1½ 1½ 1½	
	0 53E	13 44	2	6.48	F2	1½ 1½ 1½	
							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

Date Thursday Sept 3-4, 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 Ind	D
1330	HD. 187613	19 45.8	44 07	I-12	Astra II	.010	19°.5	7 40	9 02	1	0 10 E	4
1331	HD. 187613	—	—	—	—	—	19.2	9 02	10 02	2	0 34 W	4
1332	207431	21 43.8	43 32	—	—	—	19.0	10 08	11 58	3	0 [illegible] W	4
1333	223570	23 45.5	42 52	-	-	-	19.0	12 05	2 05	4	0 53 W	4
1334	16580	02 34.4	29 21	-	-	-	19.0	2 12	3 52	1	0 48 E	2
1335	16545	02 34.1	43 40	-	-	-	19.0	3 57	5 01	2	1 00 W	4

Ending Time E.S.T.	Hour Angle End	Declination		Seeing	Ptg. Mag.		Comp.	REMARKS
9 02 1	0 10 E	44	14	1	6.77	B8	2-1-2	northern component. Image very faint due to clouds and haze.
[illegible] 2	0 50 W	44	14	2	6.77	B8	1½-1½-1½	south component. Still light cirrus cloud.
[illegible] 3	0 48 W	43	44	2	7.58	Ao	1½-1½ 1½	Sky now clear.
[illegible]	0 53 W	43	05	2-1	7.64	Ao	1½ 1½ 1½	scattered clouds throughout exps.
[illegible]	0 08 E	29	32	2	7 43	B9	1½ 1½ 1½	
[illegible]	1 00 W	43	50	2	7.25	Aop	1½ 1½ 1½	scattered clouds

			Δ⊕ M.T.A.	Δ⊕ S.T.A.	Δ⊕ M Watch	Δ⊕ S. watch
Sept.	04	13	−04.8	+46.4	+35.8	+25.6

Date Friday September 4-5 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	Decl
1336	HD 169 223	18 18.6	+16 38	I-12	Astro II	010	20.9	7 32	8 42	3	1 0 W	+1
1337	176377	18 54.9	+30 02	"	"	"	20.6	8 45	9 45	4	1 25 W	+3
~~1338~~	~~198976~~	~~20 48.9~~	~~+29 17~~					9 51	9 59	1		+2
1338	198976	20 48.9	+29 17	"	"	"	20.6	10 01	11 31	2	1 24 W	+2
1339	209693	22 00.2	+32 27	"	"	"	20.5	11 35	12 35	3		+3
	Focus test							11 33				
1340	218792	23 05.7	+17 03	"	"	"	20.7	12 40	1 30	4	1 18 W	+17
1341	2769	00 26.1	+33 02	"	"	"	20.8	1 34	2 [illegible]	1	0 3 W	+33
1342	9442	01 15.5	+17 17	"	"	"	20.6	2 30	3 35	2	2 55 W	+17

Ending Time E.S.T.	Hour Angle End	Declination		Seeing	Ptg. Mag.		Comp.	REMARKS
[illegible]	1 00 W	+16	38	1	7.38	K0	1½ 1½ 1½	Mirror very astigmatic – improving.
[illegible]	1 28 W	+30	05	2	7.11	G0	1½ 1½ 1½	Very light haze – thickening
[illegible]		+29	05 ✓		~~7.47~~	~~K2~~	~~1½~~	Star looks far too faint. OK by chart. { Error in 1935 position. This is HD 198946 8^m0 – off program.
[illegible]	1 20 W	+29	24 ✓	3	7.47	K2	1½ 1½ 1½	→ Reset on 198976. OK. Clouds much of time 10^{00}–11^{30}
[illegible]		+32	38	2	7.17	G5	1½ 1½ 1½	
[illegible]	1 02 W	+17	15	2-3	7.12	K5	1½ 1½ 1½	
[illegible]	0 36 W	+33	14	2-3	7.08	K0	1½ 1½ 1½	
[illegible]	0 55 W	+17	28	2-3	7.09	F0	1½ 1½ 1½	Light clouds filling in from north at 3.10 star gone at 3.30 showed no encouraging signs of clearing closed at 4.0

	C.T.	ΔΘ M.T.A.	ΔΘ S.T.A.	ΔΘ M.T. watch	ΔΘ S.T. watch
Sept. 5	10	− 04.3	+46.6	−20.3	+32.1
				Advanced 1^m	

Date Saturday - Sept 5-6, 1936 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.	
1343	HD. 209679	22h 00.1	43° 52	I-12	Astra II.	1010.	19.2	10 08	10 54	3
1344	208174	21 49.4	27 53	—	—	—	19.1	10 58	11 54	4
1345	215566	22 41.0	44 14	—	—	—	19.2	11 58	1 08	1
1346	10681	01 39.2	27 58	—	—	—	19.1	1 14	see → 3 10	2
1347	14688	02 17.1	16 25	—	—	—	19.2	3 17	4 07	3
1348	28150	04 21.3	17 58	—	—	—	19.2	4 12	4 44	4
	Focus Test			base	outside					

About 200 visitors — showed β Cygni
+ Jupiter, Saturn, Moon — with 4½".

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp.	REMARKS
	0 25E	44 02	1	6.63	A2	1½, 1½, 1½	
1 17	0 46W	28 03	1-2	6.77	A2	1½, 1½, 1½	
1 51	1 08W	44 25	1	7.02	B9	1½, 1½, 1½	
3 10	0 12W	28 09	1-2	7.31	A0	1½, 1½, 1½	light clouds 1.55 – 2.38. Image gone.
4 17	0 31W	16 36	2	6.78	A0	1½, 1½, 1½	
4 4	0 56E	18 04	3	6.74	A0	1½, 1½, 1½ no filters 3:2	setting 3
							setting 8

	C.T.	ΔΘ M.T.A.	ΔΘ S.T.A.	ΔΘ M.T. Watch	ΔΘ S.T. Watch
Sept. 8	12	−03.8	+ 46.3	+ 05.0	− 12.7

Stopped and reset.

Date Tuesday Sept. 8-9 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	D
1349	H.D. 188170	19 48.8	28 44	I-12	Astra II	Set 0.10	Set 24.0	7.32	9.00	1	0 03 W	2
1350	" 211733	22 14.1	15 45	"	"	"	24.1	9.09	10.30	2	0 52 E	1
1351	" 215566	22 41.0	44 ~~15~~ 4	"	"	"	24.1	10.35	11.37	3	0 11 E	7
1352	" 218767	23 05.5	31 57	—	—	—	24.0	11.41	1.01	4	1 49 W	3
1353	" 3	00 00.0	44 40	—	—	—	23.9	1.05	1.59	1	0 24 W	4
1354	" 10407	1 36.4	29 01	—	—	—	24.0	2.04	4.04	2	1 14	2
1355	" 21379	3 21.8	12 23	—	—	—	24.1	4.09	5.09	3		12

Mirror silvered on Wednesday Sept 9th.

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp.	REMARKS
1	0 03 W	28 50	0	7.17	A0	1½-1½-1½	
2	0 52 E	15 57	0-1	6.91	A0	1½-1½-1½	
11 37	0 11 E	44 27	1	7.02	B9	1½-1½-1½	
11	0 49 W	32 09	0-1	6.87	B9	1½-1½-1½	
1	0 52 W	44 54	1	6.51	A0	1½-1½-1½	
2	1 20 W	29 12	1-0	7.44	A2	1½-1½-1½	difficulty in guiding this plate.
3		12 31	0	6.20	A0	1½-1½-1½	

		ΔΘ M.T.A.	ΔΘ S.T.A.	ΔΘ M Watch	ΔΘ S. Watch
Sept. 9	12	-05.5	+49.0	+07.2	-09.0

Note: M.T. clock now jogs on 2s after 0m and 30m

Sept 10	12	-05.3	+52.9	+09.7	-04.9

Date Thursday Sept 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	D
- 1356	H.D. 183794	19h 26.1m	-2 19	I - 12	Astra II	.010	21°.9	7 34	9 18	1	0 53W	-
1357	187613 N	19 45.8	+44 07	—	—	—	21.8	9 23	10 55	2		+4

Sat Sept 12-13, 1936 Hd MR

about 17 visitors. Clear for a while at 8.00 - showed typical

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp.	REMARKS
9 18.1	0 53W	-2 15	1	7.0 B8	1½, 1½, 1½	light clouds in south and east at beginning of exposure.
10 55.2		+44 13	1	(7.5) B8	1½, 1½, 1½	north component thick haze coming up 10.39 image gone at 10.40 whole sky thick at 11.00. call 10.33 end of exposure

Sept 11	12	-05.3	+49.7	+12.2	-07.3
12	10	-05.3	+56.2	+14.7	-00.6

Shower ε' Lyrae. Clouds rest of night.

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	D
1358	HD 158 485	17 24.5	+58 44	I-12	Astra II	set .010	19.5	7 13	8 03	1	[illegible]	
1359	206 155	21 35.1	+08 44	"	"	"	19.6	8 09	9 29	2	[illegible]	
1360	197665	20 40.1	+76 29	"	"	"	19.5	9 35	11 05	3	[illegible]	
1361	203574	21 18.0	+60 21	"	"	"	19.5	11 08	12 18	4	[illegible]	
1362	222386	23 35.0	+74 43	"	"	"	19.6	12 22	12 52	1	[illegible]	
1363	222387	23 35.0	+73 25	"	"	"	19.5	12 56	1 41	2	[illegible]	
1364	224098	23 50.0	+73 51	"	"	"	19.5	1 45	2 30	3	[illegible]	
1365	6475	01 00.7	+59 20	"	"	"	19.6	2 36	3 36	4	[illegible]	
1366	19536	03 03.5	+60 15	"	"	"	19.6	4 03	5 15	1	[illegible]	
	Focus Test			"	"	"	Base thru outside					

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp.	REMARKS
3 13	1 52 W	+58 43	2-1	6.58	A2	1½ 1½ 1½	
[illegible] 2	0 54 E	+08 54	1-2	6.8-7.5	A0	1½ 1½ 1½	cold E wind. Image variable
[illegible] 3	1 40 W	+76 38	1-2	7.41	F2	1½ 1½ 1½	
[illegible]	2 14 W	+60 30	1-2	7.24	K0	1½ 1½ 1½	√
[illegible] 1	0 30 W	+74 56	2	6.10	A2	1½ 1½ 1½	
[illegible] 2	1 19 W	+73 38	2-1	6.86	G5	1½ 1½ 1½	
[illegible]	1 53 W	+74 03	1	6.55	B9	1½ 1½ 1½	
[illegible]	1 48 W	+59 32	1	6.78	A0	1½ 1½ 1½	
[illegible]	1 24 W	+60 23	1	7.26	A0	1½ 1½ 1½ no filter 3 1/2	Setting 3 attempted to take HD 18473; [illegible]
							" 7

		ΔΘ M.T.A.	ΔΘ S.T.A.	ΔΘ M Watch	ΔΘ S. Watch
Sept 14	12	−05.1	+1 16.2	+18.1	+08.5
Sept 15	12	−05.0	+1 42.9	+20.2	+12.1

Date Tuesday Sept 15-16, 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 East	Hour Angle West
1367	H.D. 187613N	19 45.8	44 07	I-12	Astra II	.01.0	24°.3	7 50	9 22	2	1.37W	4
1368	194211	20 19.3	15 43	—	—	—	24.5	9 27	10 17	3	1.18W	1
-1369	221700	23 29.3	07 22	—	—	.025M	24.3	10 50	1 20	4	2W	7
1370	7374	01 08.8	15 36	"	"	.010	23.5	1 39	2 14	1	1.28W	15
~~1371~~	~~19891~~	~~02 47.3~~	~~46 44~~	"	"	"	~~23.4~~	~~2 20~~		~~2~~		~~+6~~

Ending Time E.S.T.	Hour Angle End	Declination		Seeing	Ptg. Mag.		Comp.	REMARKS
9 22 2	0 57W	44	15	2	(7.5)	B8	1½, 1½, 1½	Late starting as Dec & quick motion refused to work. Found relay sticking.
[illegible] 7 3	1 18W	45	57	2	6.68	B9	1½, 1½, 1½	Relay still sticking.
								Clouds obscured image as about to start this exposure,
								Clouds general for 30 min.
[illegible]	1 12 W	7	35	2 – 3	9.2	A2	1, 1, 1	Spots 30 s. clouds 11 to 11.15, generally cloudy
2 [illegible]	0 26W	15	49	1	5.80	B8	1½ - 1½ - 1½	wind increasing, seeing becoming unsettled.
		~~46~~	~~55~~	~~1-2~~	~~6.71~~	~~B9~~	~~1½~~	general sky much improved at 1.35.
								sky clouding over again at 2.30
								Closed up at 2.45

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

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1936

Date Wed Sept 16-17 Std-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
1371	HD 220091	23 15.9	16 43	I-12	Astra II	010	17.6	11 10	12 04		2m
1372	HD 5394 (γ Cas)	00 50.7	60 11	"	Process	"	17.4	12 10	12 12	1	
								12 13	12 17		
								12 18	12 26		1 00
1373	HD 2628	00 24.8	29 12	"	Astra II	"	17.8	12 31	12 54	4	7m
1374	" 3546	00 33.3	28 46	"	"	"	17.8	12 57	1 15	1	0W
1375	15227	02 22.1	+16 12	"	"	"	17.6	1 22	3 00	2	02W
1376	23728	03 42.3	+43 39	"	"	"	17.7	3 05	3 40	3	3E
1377	33266	05 03.9	61 44	"	"	"	17.7	3 53	4 25	4	5E
1378	35607	05 20.9	60 11	"	"	"	17.7	4 29	5 15	2	

Hour Angle End	Declination		Seeing	Ptg. Mag.		Comp.	REMARKS
W 12^m	16	55	0	6.83	F_0	1½ 1½ 1½	
	60	22	0	2.25	B_0p	no filters 6, 6	setting 1
						6, 6	" 5 Spots 5^m.
E 1^h 00						6, 6	" 9
E 7^m	29	23	0	5.54	F_0	1½ 1½ 1½	
0 06 W	28	58	0	5.30	G_5	1½ ½ 1½	
0 02 W	16	23	0	7.54	F_0	1½ 1½ 1½	
0 38 E	43	46	0	6.14	F_0	1½ 1½ 1½	
1 15 E	61	47	0	5.99	A_0	1½ 1½ 1½	
0 42 E	60	12	0	6.85	A_0	1½ 1½ 1½	

	ΔΘ M.T.A.	ΔΘ S.T.A.	ΔΘ M watch	ΔΘ S watch
Sept 17 · 12	− 04.8	+ 4 40.6	+23.7	+51.8

1936

Date Thursday Sept 17-18, 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
1379	HD. 187613	19 45.8	+44 07	I-12	Astra II	.010	15°.1	7 16	9 26	1	1 19W
1380	198915	20 48.5	46 21	—	—	—	15.0	9 28	11 04	2	1 45W
1381	215242	22 38.7	46 38	—	—	—	15.0	11 06	11 46	3	3W
1382	16594	02 34.5	31 53	"	"	"	15.0	11 54	2 04	4	32E
1383	26039	04 02.3	16 16	"	"	"	15.0	2 09	4 09	1	25E
1384	44904	06 19.3	17 03	"	"	"	15.1	4 14	5 20	2	20E

Fri 2 PM — Hd.

1384F	Focus			I-25	M Pan	010	13.6			1

(erroneously marked 1384F₁)

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp.	REMARKS
9 2[illegible]	1 09 W	44 14	1-0	(7.5) B8.	1½ 1½ 1½	south component. clouds general & low at [illegible]
11 47	1 45 W	46 31	1	7.28 B9	1½ 1½ 1½	
[illegible]	0 36 W	46 52	1	6.40 B9	1½ 1½ 1½	
[illegible]	1 02 E	33 03	1	7.56 A2	1½ 1½ 1½	
[illegible]	0 25 E	16 22	1	7.50 B9	1½ 1½ 1½	
[illegible]	1 20 E	17 02	1	6.80 B9	1½ 1½ 1½	+21.0 [illegible]
						Sept. 18 12 -04.2 +3 39.0 +25.0 +21.0
	outside base.				no filter 6/4	Setting 1 Focus 23.2 | Tilt 23.25
					6/4	setting 6 23.4
					6/4	" 9 23.6
						best Focus 23.35

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Date Fri Sept 18-19 1936 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
1385	HD 176053	18 53.3	31 52	I-25	Extra II	010	17.1	7 08	9 38	2	
1386	" 210 334	22 04.6	45 15	"	"	"	17.0	9 47	12 25	3	
1387	HD 5394	00 50.7	60 11	"	Process	"	16.1	12 36	12 41	1	
	(χ Cas)							12 42	12 53		
								12 54	1 10		
1388	HD 9709	01 30.0	46 37	"	Extra II	010	17.1	1 14	3 14	4	
1389	HD 27483	04 15.2	13 38	"	"	"	17.2	3 21	4 48	2	

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp.	REMARKS
	W 2h 17	31 55	1	7.18	A_3	3,3,3	Spots 40 s. for 7.S.P.
	W 1h 53	45 27	2	7.30	G_0	3,3,3	" " " 7SP
		60 22	3	2.01	B_{0p}	no filters 12,12	setting 1
						12,12	setting 5 Spots 5 min
	E 9m					12,	setting 9
	1 17 W	46 48	2	7.00	B_9	3,3,3	Spots 40 s
	0 06 W	13 43	2	6.48	F_2	3,3,3,	" " 7 on 7 S.P

	ΔθM T.A.	ΔθS T.A.	ΔθM watch	ΔθS watch
Sept 19 10	−04.1	+5 14.8	+26.9	+02.3 Advanced 1m

Date Saturday Sept. 19-20, 1936 H-MT 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
1389 F1	Focus Test			I-12	Astra II	010	17.8	4 00		3		
-1390	HD 206155	21 35.1	+08 44	I-12	Astra II	010	18.9	9 30	10 40	1	0 42 W	
1391	210461	22 05.5	+14 07	"	"	"	19.1	10 43	11 43	2	-V	
1392	221671	23 29.0	+59 29	"	"	"	19.0	11 47	1 07	3	V	
1393	5459	00 51.3	+60 53	"	"	"	19.0	1 12	2 12	4	57 W	
1394	10086	01 33.5	+45 23	"	"	"	18.8	2 33	3 42	1	46 W	
1395	20536	03 13.1	+61 38	"	"	"	19.2	3 47	4 27	2	50 W	
1396	29329	04 32.1	+76 25	"	"	"	19.2	4 32	5 28	3	2 N	

Ending Time E.S.T.	Hour Angle End	Declination		Seeing	Ptg. Mag.		Comp.	REMARKS
								setting / focus } not numbered,
	outside through base						no filter 5/3	2 26.20 } Tilt 19.5" marked Sept 19 F.
								6 26.30 Best 26.27 approx
								8 26.10
								Moon, Jupiter, Saturn etc. with 4"
								about 60 visitors. Showed ε Lyrae, NGC 6838 with 74"
	0 42 W	+08	55	3-4	6.8-7.5	A0	1½ 1½ 1½	Looks rather faint?
	1 14 W	+14	20	3	7.41	K0	1½, 1½, 1½	
	1 15 W	+59	42	3-2	7.41	A0	1½, 1½, 1½	Some haze
	0 57 W	+61	05	2	7.40	G5	1½, 1½, 1½	Seeing going.
	1 46 W	+45	35	2-1	7.44	G5	1½, 1½, 1½	Dome stuck - evidently poor contact in relays. OK.
	0 50 W	+61	46	2	6.60	B8	1½, 1½, 1½	
	0 30 W	+76	30	2	6.93	F5	1½, 1½, 1½	light clouds

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1936

Date Sunday Sept 20-21 Y-L **Julian Day**

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.		Hour Angle End
1397	HD 176053	18 53.3	31 52	I 12	Astra II	010	19.5°	7 17	8 27	4	4h
1398	HD 190227	19 58.9	31 40	"	"	"	19.5°	8 32	9 32	1	1h
1399	HD 209813	22 01.0	46 45	"	"	"	19.5	9 38	10 38	2	5m W
1400	HD 217731	22 57.6	44 02	"	"	"	19.5°	10 43	11 53	3	35 W
1401	HD 3291	00 30.9	44 06	"	"	"	19.5°	12 25	2 10	4	1 20 W
1402	HD 22124	03 28.8	31 41	"	"	"	19.5	2 25	3 25	1	1 4 E
1403	HD 30736	04 45.1	45 46	"	"	"	19.5	3 30	4 40	2	1 1 E
~~1404~~	~~HD 31069~~	~~04 47.7~~	~~43 54~~	~~"~~	~~"~~	~~"~~	~~19.5~~	~~4 44~~		3	

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp.	REMARKS
7 27	1h 14m W	31 56.	1	7.2	A3	1½-1½ 1½	
8 32	1h 17m W	31 41	2	7.5	K0	1½ 1½ 1½	
9 34	18m W	46 56	3-2	7.5	K0	1½ 1½ 1½	
11 53	0 35 W	44 15	2	7.5	K0	1½ 1½ 1½	Haying up at 11.20 hopeless at 11.50.
2 14	1 20 W	44 18	2	7.3	B8	1½ 1½ 1½	clearing off again. star very faint as
3 14	0 24 E	31 48	2	6.90	F0	1½ 1½ 1½	sky is generally hazy
—	0 25 E	45 50	2	7.2	F8	1½ 1½ 1½	
		~~43 58~~	~~2~~	~~5.96~~	~~B9~~	~~1½~~	Filled in at 4.55

	C.T.	ΔθM.T.A.	ΔθS.T.A.	ΔθM Watch	ΔθS Watch
Sept. 21	12	-03·9	+05 56·7	+30·4	+16·7

Date Monday Sept 21-22, 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	D
							Set					
1404	HD. 180778	19 12.8	+ 59 31	I·12	Astra II	010	21.5	7 01	8 21	-1		
1405	181799	19 16.8	+ 60 46	"	"	"	21.5	8 23	9 13	1		
1406	199492	20 52.5	+ 74 16	"	"	"	21.5	9 23	10 38	2	31W	
1407	213126	22 24.2	+ 87 34	"	"	"	21.3	10 42	12 02	3		
1408	96870	11 04.2	+ 88 11	"	"	"		12 07	1 3[illegible]	4	17W	

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp.	REMARKS
[illegible]	0 53 W	+59 35	2-3	7.54	A3	1½ 1½ 1½	
[illegible]	1 42 W	+60 52	3	7.01	B9	1½ 1½ 1½	
[illegible]	1 31 W	+74 24	2-3	7.47	A3	1½ 1½ 1½	Telescope E of pier. Removed one large wt from δ axis.
[illegible]	1 28 W	+87 46	3-1	7.43	A2	1½ 1½ 1½	Seeing variable
[illegible]	x 2 13 W	(+92 01)		7.39	B8	1½ 1½ 1½	RA reads 11h 09m.5 11h 11m.9 1935 sky filling in
							star out completely at 130 no sign of clearing
							so closed at 2.00

		ΔΘ M.T.A.	ΔΘ S.T.A.	ΔΘ M watch	ΔΘ S watch
Sept 22	12	-03.8	+ 5 32.4	+33.4	+15.2

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Date Tuesday Sept 22-23, 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
1408 F,				I-12	Astra II	.010	23°.0			1	Pure [illegible]
1409	HD 169491	18 19.8	15 36	—	—	—	23.4	6 59	8 19	2	1 47W
- 1410	193637	20 16.2	33 37	—	—	.020 M	23.4	8 25	10 05	3	1 37W
- 1411	221700	23 29.3	7 22	—	—	—	22.5	10 11	1 11	4	30W
1412	20134	03 09.1	59 41	"	"	.010	23.0	2 40	4 30	1	10W
1413	28150	04 21.3	17 58	"	"	"	23.0	4 39	5 25	2	53W

Ending Time E.S.T.	Hour Angle End	Declination		Seeing	Ptg. Mag.		Comp.	REMARKS
	Base outside						15/9	focus O.K.
8 19	1 47 W	15	37	2-3	7.38	B9	1½, 1½ 1½	
10 05 3	1 37 W	33	45	3	8.7	A	1½, 1½, 1½	light clouds occasionally covering image at 8.50, spots 30s.
1 . 4	1 30 W	7	35	3	9.3	A2	1½ ½ 1½	spots 30s. haze appearing in North and East,
								light clouds obscuring image occasionally.
[illegible]	1 10 W	59	48	1-2	7.34	B3	1½ 1½ 1½	Tried to get 18473 but was not sure of star; map
[illegible]	0 53 W	18	04	2	6.74	A0	1½ 1½ 1½	is confusing. Blew a fuse on dec setting
								and guiding motion; some time elapsed
								before getting under way once more.
								Sky hazy image faint on 1412, seeing
								not so good.
								Sept. 23 .12 -03.9 + 5 32.3 +36.1 -11.5

Date Wednesday Sept 23-24 1936 AdMR **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
-1414	HD183794	19 26.1	-02 19	I-12	Astra Z	015	24.8	6 55	8 01	1	26^m

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp.	REMARKS
8h 1	W 26m	-02 15	2	6.8-7.1	B_8	1½, 1½, 1½	(Note wide slit.) Closing in from start Thick at 8.00. Closed.

		ΔθM.T.A.	ΔθS.T.A.	ΔθM Watch	ΔθS 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

Date Friday Sept 25-26 1936 Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.		Hour Angle End	Dec
- 1415	Nova Aquilae 1936	19 12.2	01 32	I-12	Astra II	015	12.5	6 58	8 42	2	4h 130	
	Focus			"		010	12.8					
- 1416.	Nova Lac	22 13.2 (1936)	55 20	"	"	010	12.9	8 55	10 55	3	W 44m	
							12.4	10 55	11 25		4h 1m	
1417	HD 222900	23 39.6	45 49	"	"	010	12.5	11 30	1 10	4	1 31 W	
1418	" 9709	01 30.0	46 36	"	"	"	12.5	1 16	2 26	1	1 56 W	
1419	" 27579	04 16.1	13 21	"	"	"	12.8	2 31	3 55	2	20 E	
1420	" 36756	05 28.9	44 15	"	"	"	12.7	3 59	5 25	3	1 04 E	

Saturday Sept 26-27. M - MR

Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp.	REMARKS
W 1h30	01 38	2.	(8)		1½ 1½, 1½	(cfpots 40s) 1h30 is almost limit W.
	bare outside				10/7	
W 44m	55 20	1	(8)		1½ 1½ 1½	settling 3 | cfpots 40s.
W 1h14		1			1½ 1½ 1½	" 8
1 31 W	46 03	1	7.48	A_0	1½ 1½ 1½	Companion about 9th mag 5" distant ?
0 56 W	46 48	1	7.00	B9	1½, 1½, 1½	limits 4h 5s.
0 20 E	13 26	1-2	7.48	A5	1½ 1½ 1½	
0 04 E	44 17	1-2	7.59	F5	1½ 1½ 1½	Hazing up at 450 image faint.

				H watch	S watch
Sept. 26.	0	-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

Date Monday Sept 28-29, 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.	
– 1421	N Aql 1936	19 12.2	+01 32	I-12	Astra IX	018	11.4	6 56	8 45	3
– 1422	HD. 206155	21 35.1	+08 44	"	" IX	010	11.4	8 51	10 11	4
	Frame			"	" IX					4
1423	HD 216511	22 48.4	+46 01	"	Astra II	"	11.4	10 18	11 09	1
1424	217491	22 56.0	+44 50	"	"	"	10.6	11 11	12 01	2
1425	1632	00 15.5	+32 21	"	"	"	11.4	12 04	1 04	3
1426	9616	01 29.2	+32 37	"	"	"	11.3	1 07	2 07	4
1427	16933	02 37.8	+46 26	"	"	"	11.3	2 10	3 35	1
1428	22195	03 29.4	+31 21	"	"	"	11.0	3 39	4 55	2
1429	34762 Tr 34762	05 14.7	+27 51	"	"	"	11.1	5.00	5.30	3

Ending Time E.S.T.	Hour Angle End	Declination		Seeing	Ptg. Mag.		Comp.	REMARKS
[illegible]	1 45 W	+ 01	36	0	(8)	Q	1, 1, 1	Some haze. Seeing very bad – image about twice length of slit. (at start)
[illegible]	0 47 W	+ 08	54	0	6.9 V	A0	1½, 1½, 1½	Spots 40ˢ on 1421, 1422
	outside	thin bar				w filter	5/3	
[illegible]	0 32 W	+ 46	14	1	6.68	B9	1½, 1½, 1½	Light clouds
[illegible]	1 16 W	+ 45	04	1 – 0 – 1	6.50	A2	1½ 1½ 1½	Clouds at start. N B temp drop.
[illegible]	1 20 W	+ 32	36	.	7.15	K5	1½ 1½ 1½	
[illegible]	0 49 W	+ 32	48	1	7.13	G0	1½ 1½ 1½	
[illegible]	1 09 W	+ 46	36	1	7.40	F5	1½ 1½ 1½	
[illegible]	1 38 W	+ 31	29	1	7.11	F0	1½ 1½ 1½	Light clouds rolling up from the west at 4 00
[illegible]	0 27 W	+ 27	54	0	6.28	B9	1½ 1½ 1½	

M watch S watch

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

Date Tuesday Sept 29-30, 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
- 1430	Nova Aquilae	19 12.2 (1936)	+01 32 (1936)	I-12	Astra VIII	.015 L	+9°.5	6 57	8 39	1	[illegible] 3W
1431	H.D. 199206	20 50.6 (1900)	44 ~~44~~ (1900)	—	Astra II	.010	+9.1	8 47	10 13	4	1 33W
1432	198414	20 45.1	45 65	—	—	—	+9.1	10 16	11 36	3	[illegible] 07W
1433	217587	22 56.7	43 39	—	—	—	+9.2	11 39	12 59	1	2 [illegible]3W
14 34	" 18473	02 53.1	59 17	"	"	"	+9.1	1 12	2 24	3	[illegible]4E
14 35	" 35035	05 16.7	28 22	"	"	"	+9.3	2 32	3 56	4	[illegible]5E
14 36	" 38817	05 43.4	43 59	"	"	"	+9.1	4 00	5 30	3	[illegible]3W

Y, Hd + H washed Cassegrainian mirror with alcohol.

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp.	REMARKS
7 8 39	1 43W.	+1 37	1	(8)	Q	1½, 1½, 1½	Sept 30 on 1430 finder badly off centre. took long time to find star.
7 10 13	1 39W	44 54	1	7.40	B9	1½, 1½, 1½	dome refused to turn during this exposure pushed on dome relays. Worked O.K.
11 36	3 07W	45 15	1.	7.47	A0	1½, 1½, 1½	
12 49	2 18W	43 53	1	7.33	A3	1½, 1½, 1½	
2 27	0. 14E	59 26	1	7.35	A0	1½ 1½ 1½	Set on brighter component.
5 06	1 05E	28 25	1	7.44	A3	1½ 1½ 1½	
8 53	0 03W	44 00	1	7.51	A2	1½ 1½ 1½	

					ΔΘ M watch	ΔΘ S watch
Sept. 30/	12	-03.8	+5	31.3	+08.2	+23.8
Oct. 1	12	-02.9	+5	32.0	+21.3	+30.2

Date Thursday, Oct 1-2, 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	D
1437	HD 189847	19 57.0	+30 57 +(31 03)	I-12	Astra II	set 010	12.8	8 02	8 52	1		
1438	198976	20 48.9	+29 17	"	" II	"	12.9	8 55	10 10	3		
1439	211432	22 11.9	+27 18	"	"	"	12.3 12.8	10 13	11 28	1		
1440	1632	00 15.5	+32 21	"	"	"	12.8	11 33	12 33	1	2W	
1441	8442	01 18.5	+17 17	"	"	"	12.9	12 36	1 36	3		
1442	16111	02 30.2	+28 58	"	"	"	12.8	1 39	2 39	4	33W	
1443	22195	03 29.4	+31 21	"	"	"	12.6	2 42	3 42		36W	
1444	32356	04 57.5	+61 02	"	"	"	12.7	3 47	[illegible]	3	19W	
1445	34762	05 14.7	+27 51	"	"	"	13.0	5 06	5 40			

Cloudy & rain in early evening.

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp.	REMARKS
	1 19W	+31 04	0-1	6.66	B8	1½, 1½ 1½	Image unsteady
	1 45W	+29 25	1	7.47	K2	1½ 1½ 1½	
	1 40W	+27 30	1-0	7.43	K0	1½ 1½ 1½	NB temp drop.
	× 1 12W	+32 35	1	7.15	K5	1½ 1½ 1½	
	0 41W	+17 30	1	7.09	F0	1½ 1½ 1½	
	0 33W	+29 08	1-2	7.05	B8	1½ 1½ 1½	
	0 36W	+31 29	1-2	7.11	F0	1½ 1½ 1½	
	0 20W	+61 05	1-0	7.27	K0	1½ 1½ 1½	Wind freshening seeing blowing up.
	× 0 19W	+27 54	1-0	6.28	B9	1½ 1½ 1½	

				H Watch	S Watch
Oct. 2	12	-02.3	+05 32.3	+26.7	+38.1

Date Friday Oct 2-3, 1936 M-C Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	
1446	H.D. 191048	20 2.8	15 47	I - 12	Astra II	.010	11°.1	6 36	7 46	1
	Focus test			—	—	—	11.0		(setting)	9
1447	H.D. 193819	20 17.2	13 16	—	—	—	11.0	7 .50	9 22	3
1448	210661	22 6.8	28 45	—	—	—	10.8	9 26	10 52	4
- 1449	BD 63° 0110	0 48.6	63 33	—	—	.025 M	11.0	11 07	1 37	1
1450	17891	02 47.3	46 44	"	"	.010	10.5	1 45	2 35	3
1451	26398	04 05.4	16 22	"	"	"	10.7	2 47	3 47	4
1452	35173	05 17.8	15 55	"	"	"	10.8	3 51	4 51	[illegible]
1453	43583	06 11.9	14 05	"	"	"	10.7	4 56	5 30	[illegible]

Hour Angle End		Declination		Seeing	Ptg. Mag.		Comp.	REMARKS
0	11W	+15.	54	3	7.46	B9	1½, 1½, 1½	clouds blowing across from 7.15 to 8.15
Base outside							12/8	
				2	7.37	A0	1½ 1½ 1½	
1	13W	28	58	2 – 1	7.50	A2	1½, 1½, 1½	
1	15W	63	45	2	9.1	—	1, 1, 1.	spots 30 sec.
0	15W	46	55	1-2	6.71	B9	1½ 1½ 1½	
0	10W	16	29	1	6.97	B8	1½ 1½ 1½	
0	52W	15	59	1	6.89	B8	1½ 1½ 1½	
0	14E	14	05	1	6.46	B9	1½ 1½ 1½	

M Watch S Watch

Oct. 3 12 − 02.3 + 05 31.5 + 30.7 + 46.6

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1936

Date Sat Oct 3-4 Hel 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
1454	HD 1662	00 15.8	12 13	I-12	Astra II	010	10.0	10 41	12 55	3

2 or 3 X10² visitors. Showed Ring neb. 258
and Saturn with 74".
with 4" showed moon, Saturn, η Persei

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp.	REMARKS
1254	W 1h 10	12 26	2	7.51	A3	1½ 1½ 1½	M.T. watch stopped med. MR's
							Correction = + 45s re M.T. clock,
							Clouds for nearly half of 1454
							Closed 3.30
							M.T. Watch S.T. Watch
							Oct. 5. 12 -02.0 + 21.3 -05.0 +57.7
							Advanced 5m Reset.

Date Monday, October 5-6, 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	D
same no. as previous plate. 1454	N Aql 1936	19 12.2	+01 32	I-12	Astr. II	018	Set 18.0	6 40	8 17	4	4.3W	+
1455	HD 198976	20 48.9	+29 17	"	"	010	Set 22.0	8 24	9 34	1	2.4	+
1456	218792	23 05.7	+17 03	"	"	"	22.0	9 38	9 58	3	2.5	-
	~~+641~~	~~00 15.6~~	~~+32 25~~									

Ending Time E.S.T.	Hour Angle End	Declination		Seeing	Ptg. Mag.		Comp.	REMARKS
								Spots 20³
9 7	1 43 W	+01	37	1	(8)	Q	1-1-1	Note wide slit. Clouds in region at start. Very murky
9 4 1	1 24 W	+29	24	1	7.47	K2	1½ 1½ 1½	N.B. Temp had risen to 24.5 at close. Heat off. Reset 22.0 (Temp had been OK ½ hour after start.)
9 5	0 29 E	+17	16	2	7.12	K5	1½ 1½	
					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	Advanced + 1m 11·0

Heavy electrical storm in SW + S all evening.

Clouded over 9⁵⁸. closed shutters for fear of rain, 10 ...

1936

Date Wednesday Oct 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.	
1457	HD 200102	20 56.3	44 36	I-12	Extra II	010	16.5	7.12	8 32	4
1458	Focus			"	"	010	16.5			1
	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	3
1460	HD 2453	00 23.2	31 53	"	"	010	16.6	10 54	11 47	
1461	HD 2628	00 24.8	29 12	"	"	010	16.5	11 50	12 16	3
1462	HD 5394	00 50.7	60 11	"	Process.	010		12 15	12 17	1
	(γ Cas)						16.7	12 18	12 22	
								12 23	2 31	
1463	HD 15227	02 22.1	16 12	"	Extra II	010	16.7	12 36	2 00	4
1464	HD 22963	03 36.1	32 38	"	"	"	16.7	2 04	3.10	1
1465	HD 33336	05 04.5	13 25	"	"	"	16.5	3.16	4.16	5
1466	HD 44867	06 19.1	16 07	"	"	"	16.4	4.21	5.30	4

Cloudy all day. Clearing rapidly at sunset.

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp.	REMARKS
	W 22m	44 46	2	7.57	G5	1½ 1½ 1½	
		bare outside				8/6	
	W 1m	14 59	2	6.73	A0	1½ 1½ 1½	
	W 29m	29 07	3	7.34	K0	1½ 1½ 1½	
	W 12m	32 07	2	6.71	A0p	1½ 1½ 1½	
	W 32m	29 25	2	5.54	F0	1½ 1½ 1½	
				2.01	B0p	no filter 6.6	setting 1 } spots 5m
						6.6	" 5
	W 27m					6.6	" 9
	0 25 W	16 23	2	7.54	F0	1½ 1½ 1½	Aurora
	0 21 W	32 46	2	7.17	F8	1½ 1½ 1½	
	0 01 E	13 29	2	7.07	F2	1½ 1½ 1½	Heavy dew all night dripping
	0 02 E	16 07	2	7.13	G5	1½ 1½ 1½	from shutters onto platform outside

Oct. 8 12 -01.3 +33.9 +02.8 +20.1

Date Thursday Oct 8-9, 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	D
1467	HD 157582	17 19.0	17 00	I 12	Astra II	.015	15°.7	6 36	7 56	1	3 28 W	1
1468	181099	19 14.0	16 31	—	—	—	15.7	7 59	9 13	3	2 5 W	1
-1469	221700	23 29.3	07 22	—	—	.020 m	15.4	9 22	11 52	4	1 14 W	7
-1470	BD 63°0116	00 48.6	63 33	—	—	.020	14.7	12 03	2 31	1	2 33 W	6
1471	HD 35522	05 20.2	15 23	"	"	.010	15.1	2 40	3 46	3	42 E	15
1472	" 35909	05 22.9	13 37	"	"	"	15.0	3 50	4 25	4	0 E	13
1473	" 44738	06 18.3	14 10	"	"	"	15.0	4 29	5 45	1	1 E W	14

Saturday, Oct 10-11 H, MR 8 visitors; cloudy

Ending Time I.S.T.	Hour Angle End	Declination		Seeing	Ptg. Mag.		Comp.	REMARKS
7 56 1	3 28 W	16	58	2	7.59	A0	1½, 1, 1½	-
9 13 3	2 50 W	16	35	2-1	7.26	A3	1½, 1, 1½	-
11 52 4	1 14 W	7	35	2	9.3	A2	1, 1, 1	spots 30z.
[illegible] 31 1	2 33 W	63	45	2	9.6	-	1, 1, 1	spots 30z.
3 40 [illegible]	0 42 E	15	25	2-1	7.02	B9	1½ 1½ 1½	
4 [illegible]	0 06 E	13	39	2-1	6.32	A2	1½ 1½ 1½	
5 [illegible]	0 18 W	14	10	2-1	7.3	A0p	1½ 1½ 1½	Light cirrus clouds during latter half of exposure.

				M Watch	S Watch
Oct. 9.	12	-01.3	+30.4	+07.4	+23.2
10.	12	-01.3	+30.3	+09.5	+28.8

Date Oct 11-12 Sunday Y-L Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.		Hour Angle End	D
	1936 October 12-13 Monday H-L											
~~1474~~	Nova Aql 1936	19 12.2	+01 32	I-12	Astra II	020	set 3.5			1		
— 1473 F1	Focus test			"	"	010						

Ending Time I.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp.	REMARKS
							Partly cloudy all day. Mostly clear 6^00^ on.
1		+01 37		[8]	Q		Clouded up solid right at start.
	outside the bracs					no filter 4/3	Developed. (Slide not fully drawn?) Focus a bit short. Set to 21.31
							Closed up 10^00^. Still solid.
							Oct. 13. 12 -01·0 +28·4 +25·0 +50·8

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Date Tuesday, Oct 13-14, 1936 M-L Julian Day

Plate No.	Object	R.A. 1900 h m	Declination 1900 ° ′	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.		Hour Angle End	D
1474	H.D. 217477.	22 55.9	30 33	I-12	Astra II	.010	+4.1°	9 47	10 47	3	1 02 W	3
1475	2019	00 19.4	30 49	—	—	—	3.8	10 54	12 00	4	1 52 W	31
1476	11188	01 44.9	46 58	—	—	—	4.0	12 03	1 43	1	09 W	47
~~1477~~	~~15992~~	~~02 29.1~~	~~44 12~~	~~—~~	~~—~~	~~—~~	~~3.8~~	~~1 47~~		~~2~~		

Ending Time E.S.T.	Hour Angle End	Declination		Seeing	Ptg. Mag.		Comp.
10 47 3	1 02 W	30	45	1-0	6.52	A0	1½, 1½, 1½
12 00 7	0 52 W	31	03	1	6.78	B9	1½, 1½, 1½
43	1 09 W	47	08	2	7.09	B8	1½, 1½ 1½
				~~2~~	~~7.40~~	~~B9~~	~~½~~

REMARKS

Cloudy all day – sky fairly well covered with cloud in early evening. Started to clear definitely from N about 9.00 p.m. Still clouds in S heavy clouds delayed setting.

sky generally quite hazy

filling in. hopelessly thick at 2.30

no sign of clearing so closed up at 3.00

					M Watch	S Watch
October 14	12	-00.3	+28.8	+30.5	-02.0
	15	12	-00.1	+29.0	+0.3	Advanced 1 m. +06.0

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	D
1477	HD 206280	21 36.0	+43 59	I-12	astro II	010	14.0	8 16	9 26	3	[illegible]	[illegible]
1478	216511	22 48.4	+46 01	"	"	"	14.2	9 29	10 19	4	[illegible]	[illegible]
1479	220102	23 16.0	+59 44	"	"	"	14.1	10 25	11 25	1	[illegible]	[illegible]
1480	4817	00 45.2	+61 16	"	"	"	14.3	11 29	12 39	2	1 12 W	[illegible]
1481	19536	03 03.5	+60 15	"	"	"	13.6!	12 46	2 06	3	2 W	[illegible]
~~1482~~	~~20536~~	~~03 13.1~~	~~+61 38~~	~~"~~	~~"~~	~~"~~	~~13.4~~	~~2 11~~		~~4~~		

Sat Oct 17-18 M-MR

6 visitors

showed observatory

Clouds most of day; clearing slowly but heavy haze left. Piers + axes [illegible] badly out. telescope apparently OK (heat on around mirror)

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp.	REMARKS
[illegible]	1 09 W	+44 09	1-2	6.68	B9	1½·1½·1½	Haze.
[illegible]	0 50 W	+46 14	2	6.68	B9	1½ 1½ 1½	Haze much thinner.
[illegible]	1 28 W	+59 56	3-4	7.00	F2	1½ 1½ 1½	Light haze [illegible]
[illegible]	1 12 W	+61 28	3	7.43	K2	1½ 1½ 1½	" "
2 00	0 21 W	+60 25	3	7.26	A0	1½ 1½ 1½	Note! checked slit at beginning of this
		~~+61 47~~	~~3~~	~~6.60~~	~~B8~~	~~½~~	exposure it read .018! set back to .010

Star appeared to be gradually getting faint
on 1482, examined mirror and found
the same to be fogged. Swung tube
down and dried off mirror with blower
then closed diaphragm and applied
the heat. Closed up at 3.30.
Extremely heavy fog in low lying sections
of surrounding country.

					M. Watch	S. Watch
Oct.	16	12	+00·2	+28·9	+33·7	+11·9
	17	10	+00·2	+28·8	+36·8	+18·9

1936

Date Monday October 19-20 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
1482	HD 16220	02 31.1	+32 27	I-12½	Astra II	set 010	set +9.5	12 27	1 27	1	3 30 W
1483	" 20536	03 13.1	+61 38	"	"	"	+14.5!!!	1 35	2 40	2	
1484	31662	04 526	+60 56	"	"	"	+15.0	2 44	3. 30	3	

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp.	REMARKS
	0 30W	+32 38	1	6.71	F5	1½-1½-1½	Oct. 19 12 +0.2 +28.4 -02.8 +31.9
	1 01W	+61 47	1	6.60	B8	1½-1½-1½	Temperature had run up. Reset at +12.0
	0 11W	+60 60	1	6.54	F5	1½-1½-1½	and tried to get temperature to drop by opening
							door. Although heat was shut off it
							continued to rise. Air in dome is
							apparently warmer than inside of
							spectrograph.
							Sky filling in at 3.00 hopeless
							at 3.30
							M Watch S Watch
							Oct. 20 12 +00.2 +28.3 +00.7 +38.3

Date Tuesday - Oct 20-21, 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	De
1485	HD. 11336	1 46.4	44 19	I-12	Astra II	.010	16°.0	11 28	12 48	1	4 41	47

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp.	REMARKS
							Cloudy at sunset. Intermittent clouds for first part of evening. Showed R.A.S.C. first β Cygni second Saturn.
12 48	40W	44 31	1	7.43	B8	1½, 1½, 1½	fairly high wind, image shows a lot of motion.
							closed up as Hydro expected to turn power off at 1.10.

				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. ~~+00.4~~
Oct. 24	10	+00.8	+28.4	+09.5	+08.6

Date Sat Oct 24-25 1936 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	De
1486	HD 9709	01 30.0	46 36	I 12	Extra II	010	8.0	10 40	11 42	2	0 0 W	4
1487	HD 15227	02 22.1	16 12	"	"	"	7.5	11 51	1.43	1	1 15 W	1
1488	" 26911	04 10.1	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	5	03 E	
+ 1491	" 45506	06 22.7	16 19	"	"	"	6.6	4.20	4 58	4	30 W	
	Focus Test			"	"	"						

100 + visitors; reversed 74" and showed moon. Saturn with 4¼". 776

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp.	REMARKS
11 42	0 06 W	46 48	3	7.00	B9 1½, 1½, 1½	Spots 40 S.
1 43	1 15 W	16 22	3.	7.54	F0 1½, 1½, 1½	Clouds.
2 43	28 W	15 15	4	6.77	F5 1½, 1½, 1½	"
3	05 W	61 47	4	5.99	A0 1½, 1½, 1½	"
4	03 E	16 03	4	7.09	G0 1½, 1½, 1½	"
4 58	30 W	16 18	—	7.11	G5 1½, 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
						M. watch S watch
						Oct. 26 12 +01.2 +27.9 +15.6 +23.2

Date Monday October 26-27 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.	
1492	HD 209193	21 56.4	+30 57	I-12½	Astra II	010	Set +1.4	7 43	9 43	1
1493	217754	22 57.8	+31 14	"	"	"	+1.2	9 49	10 59	2
	Focus test			"	"	"		9 44		2
1494	9616	01 29.2	+32 37	"	"	"		11 03	12 33	3
1495	22195	03 29.4	+31 21	"	"	"	+0.5!	12 37	2 07	4
1496	34762	05 14.7	+27 51	"	"	"	+1.0	2 12	2 52	1
1497	35984	05 23.4	+29 07	"	"	"	+0.2!	2 56	3 56	2
1498	44033	06 14.4	+14 41	"	"	"	+1.2	4 01	5 11	3
1499	46031	06 25.9	+15 58	"	"	"	+0.0!	5 16	6 00	4

Clouds all day. Clearing early evening.
Strong N wind.

Ending Time L.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp.	REMARKS
	1 49 W	+ 31 09	0	7.32	F0	1½ 1½ 1½	Seeing terrible.
	2 02 W	+ 31 27	0	6.74	F0	1½ 1½ 1½ w filter 5/3	Setting 7½
	base - outside						Setting 2½ Focus 26.32 Tilt - 19.5
	1 06 W	+ 32 48	0	7.13	G0	1½ 1½ 1½	
	0 40 W	+ 31 29	0	7.11	F0	1½ 1½ 1½	
	0 22 E	+ 27 54	0	6.28	B9	1½ 1½ 1½	
	0 35 W	+ 29 09	0	6.66	F5	1½ 1½ 1½	
	0 39 W	+ 14 41	0	7.20	K5	1½ 1½ 1½	
	1 32 W	+ 15 58	0	6.51	A5	1½ 1½ 1½	

				M. Watch	S. Watch
Oct. 27	12	+01.8	+28.2	+12.0	+33.0

Date Tuesday Oct 27-28, 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	D
						Electrograph 1.0 set 1.0						
- 1500 !!!!	Nova Aquilae V	19 21.8	7 21	I-12	Astra II	.015 M	1.5	6 15	7 57	1	41m W	+7
- 1501	HD. 208816	21 53.8	63 09	—	" IX	.010 L	1.1	8 10	9 20	2	33 W	63
- 1502	BD. 63° 0110	00 48.6	63 33	—	" II	.025 M	0.7	9 31	12 01	3	17W	63
1503	HD. 15992	2 29.1	44 21	—	" II	.010 L	0.8	12 07	1.31	4	17	47
1504	" 29487	04 33.5	43 55	-	-	-	0.3	1. 36	2 56	1	28	43
1505	" 34054	05 09.5	14 56	-	-	-	1.0	3. 00	4.10	2	17W	15
~~-~~	~~" 55283~~	~~07 07.2~~	~~15 21~~	~~-~~	~~-~~	~~-~~	~~1.0~~	~~4. 15~~		3		15

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp.	REMARKS
							set focus to 26·35 - tilt 195
7 57	2h 41m W	+7 29	1	(8)	Q	1, 1, 1,	Nova hard to identify at first in bright sky. shots 30 s with slight haze.
9 20	1 33 W	63 21	1	7·0	M2	1½, 1½, 1½,	shots 20 s.
12 01	1 17 W	63 45	1	9·6	-	¾ ¾ ¾	shots 30 s.
1 41	1 07 W	44 23	1-2	7·40	B9	1½, 1½ 1½	
2 50	0 28 W	43 59	1·2	7.30	B9	1½ 1½ 1½	
4 30	1 07 W	15 00	2-3	7.27	B9	1½ 1½ 1½	Light Clouds at latter part
	~~—~~	~~15 18~~	~~2-3~~	~~7.59~~	~~A0~~	~~1½~~	sky filling in. thick at 445
							Oct. 28 12 +02·2 + 27·8 + 17·6 +42·4
							Oct. 29 12 +02·9 + 27·8 + 20·9 -08·0 advanced 1m.

Date Thursday Oct. 29-30 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	D
~~1506~~	~~H.D. 194115~~						+6°.2			4		
1506	H.D. 23477	3 40.4	43 46	I-12	Astra II	.010	+5°.7	12 37	1.40	4		N 4

Ending Time E.S.T.	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 spectrograph
							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
1 40	0 14 W	43 54	1	7.05	B9	1½, 1½, 1½	Huge bank of clouds rising suddenly from NW: star gone at 1.40 Closed shutters started to rain very lightly. Awaited till 3.00 and closed up.
							M Watch S Watch
							Oct. 30 12 +02.9 +27.4 -19.1 +00.2
							Reset.

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1936

Date Friday Oct 30-31 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
1507	HD 17007	02 38.6	29 03	I-12	Astra II	010	+1.0	11 42	1 04	1	[illegible]
	Focus Test			"	"	"	+1.0				[illegible]
1508	HD 22418	03 31.3	30 48	"	"	"	+1.0	11 09	2 59	2	25 W
1509	43931	06 13.8	13 29	"	"	"	+1.0	2 49	4 09	3	[illegible] W
1510	45194	06 21.0	13 10	"	"	"	+1.0	4 12	5 12	4	50 W
1511	57049	07 15.4	15 21	"	"	"	+1.0	5 15	6 05	1	[illegible]

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp.	REMARKS
[illegible]	4 3m W	29 12	0	7.34	F0	1½ 1½ 1½ 2 1 1 2 12/8	Image looks elongated as though close double — in fact is double? Seeing too bad for individual guiding
	trace outside						
[illegible]	1 25 W	30 56	0	7.43	F5	1½, 1½, 1½	Spots 40 secs. Light cirrus clouds from N.W.
[illegible]	0 13 W	13 28	0	7.38	F5	1½ 1½ 1½	" " Double star, set on preceding component
[illegible]	1 09 W	13 09	0	7.09	F8	1½ 1½ 1½	" " Light cirrus clouds.
[illegible]	1 08 W	15 17	0	6.47	A0	1½ 1½ 1½	" "

					M. Watch	S. Watch
Oct. 31	10	+03·1	+27·0		−15·4	+08·0
Nov. 2	12	+04·0	+26·6		−10·0	+13·6
					Reset – stopped	
Nov. 3	12	+04·0	+26·0		−07·0	+21·2
Nov. 4	12	+04·2	+25·5		−04·6	+31·2
Nov. 5	12	+04·7	+22·5		−04·8	+33·5

H-L

Date Thursday, November 5-6, 1936 Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.		Hour Angle End	D
- 1512	HD 145849	16 08.1	+36 41	I - 12	astro. II	010	set 6.0-12.5	5 48	6 48	1	[illegible]	
1513	203551	21 17.8	+60 ~~24~~ 15	"	"	"	set 10.0	7 05 ~~6 54~~	8 15	2	[illegible]	
1514	220102	23 16.0	+59 44	"	"	"		8 20	9 20	3	[illegible]	
1515	222275	23 34.1	+61 35	"	"	"		9 23	10 13	4	[illegible]	
1516	5459	00 51.3	+60 53	"	"	"		10 15	11 55	1	[illegible]	
1517	6130	00 57.4	+60 32	"	"	"		11 55	12 33	2	[illegible]	

Clouds late afternoon. Clearing at sunset.

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp.	REMARKS
[illegible]	(5 22W)	+36 37	1	6.86	K5	1½ 1½ 1½	Windscreen cutting off some; unable to get it high enough to clear.
[illegible]	1 38W	+60 26	1	7.16	F5	1½ 1½ 1½	Temp rose up to 12.5 during last half of 1512. Relay magnet very weak.
[illegible]	0 45W	+59 56	1	7.00	F2	1½ 1½ 1½	
[illegible]	1 20W	+61 47	1	6.78	A2	1½ 1½ 1½	
[illegible]	1 45W	+61 05	1-2	7.40	G5	1½ 1½ 1½	Clouds passing via region $10^{30}-10^{50}$; $11^{20}-11^{35}$
[illegible]	17W	+60 46		6.22	F0	1½ 1½ 1½	Star keeping up. Star gone at 12.33
							closed up at 1.30 no sign of clearing
							Nov. 6. 12 +05.2 +25.0 -01.3 +42.2
							Unable to locate trouble in relay circuit. [illegible] Tilly erroneously. Thermostat.
							Spots 30s on all plates
							Friday Nov 6 — Thermostat OK. H-L.

Date Friday Nov 6-7 1936 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
1518 +	HD 205939	21 33.6	44 14	I-12	Astra II	010	5.5	6 19	6 57	4	W
1519	" 212442	22 19.2	14 46	"	"	"	5.8	7 01	7 55	3	W
1520	" 220091	23 15.9	16 43	"	"	"	5.5	7 59	8 43	1	W
1521 +	" 221145	23 24.1	12 ~~24~~ 13	"	"	"	5.5	8 49	9 03	2	W
- 1522	γ Cas HD 5394	00 50.7	60 11	"	Process	"		9 12	9.13	3	
								9 15½	9.17½		
								9 20	9.25		
1523	HD 9709	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 41~~ 11 47	12.50	2	
1526	" 23728	03 42.3	43 39	"	"	"	5.8	1 32	2.32	4	

Hazy at sunset. — Improving 780

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp.	REMARKS
[illegible]	8m W	44 27	3	6.19	A_3	1½, 1½, 1½	spots 30s
[illegible]	20m W	14 58	2	6.73	A_0	1½, 1½, 1½	"
[illegible]	12m W	16 56	3	6.83	F_0	1½, 1½, 1½	"
[illegible]	25m W	12 25	4	5.67	K_0	1½, 1½, 1½	"
[illegible]			4	2.01+	B_{ep}	no filter 6, 6	at 1 } spots 5 min
[illegible]				"	"	6, 6	" 5
[illegible]	E 42m			"	"	6, 6	" 9
[illegible]	E 4m	46 48	4	7.00	B_9	1½, 1½, 1½	spots 20s In turning telescope to zenith water (½ cup) fell near NW corner of clock pier. Couldn't trace origin. Seemed from tube rather than from dome
[illegible]	W 5m	16 35	4	6.78	A_0	1½, 1½, 1½	spots 30s (1524 for RJN)
[illegible]	0.04 W	–	4	7.43	F_5-	1½, 1½, 1½	" " sky hazing up. star gone at 12.50
[illegible]	1.35 W	45 47	3	6.14	F_0	1½ 1½ 1½	" " clearing at 1.25. hazing up again.
							closed up at 3.30

				M Watch	S Watch
Nov. 7	10	+05.9	+25.0	+04.9	-06.1

Advanced 1m

Transparency poor all night.

Date Saturday, Nov 7-8, 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
1527	HD. 182381	19 19.3	15 ~~53~~ 49	I-12	Astra II	.010	+6°.1	5 59	7 21	1	5 SW 1
1528	2019	0 19.4	30 49	—	—	—	+5.6	9.38	10 11	2	4 W 3

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp.	REMARKS
7 21 1	2 51 W	15 54	1	7.48 A2	1½, 1½, 1½	clouds low in south quite hazy.
						hazed right up at end of Pl 152
						cleared off later though still hazy.
10 1 2	0 40 W	31 02	0	6.78 B9	1½,	filled in again with at 10.00
						plate probably useless.
						Humidity high.
						Gave night up as bad
						job and closed dome.
						Put heat 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.	
1529	+ H.D. 209833	22 01.1	28 28	I-12½	Astra II	0.10	-0.8	5.55	7.00	3
- 1530	" 208816	21 53.8	63 09	"	Astra IX	"	-0.9	7.10	7.50	4
- 1531	" "	"	"	"	"	"	-0.8	7.50	9.20	1
- 1532	BD-63°0110	00 48.6	63 33	"	Astra II	M 0.25	-0.9	9.33	12 13	2
1533	+ HD. ~~1~~ 2 26398	4 5.4	16 22	"	"	0.10	-0.7	12.22	1.45	3
1534	35036	5 16.7	16 01	"	"	"	-0.7	1.48	3.52	4
1535 +	63312	7 43.2	46 03	"	"	"	-0.9	3.57	5.13	1
1536	71555	8 23.0	14 33	"	"	"	-1.0	5.16	6.02	2
	Focus test.						-0.9			

Wed Nov 11 — Hd.

Removed I-12 ~~Nos.~~ ~~Tilting~~ Focus was 26.33, Tilt 19.45

Put on I-25 Focus 23.4 Tilt 23.25

~~1536 F. Focus ... Focus ... 0.10 ± 2.0~~

Ending Time I.S.T.	Hour Angle End	Declination		Seeing	Ptg. Mag.		Comp.	REMARKS
[illegible]	0 . 00	28	40	0	5.58	Ao	1½-1½-1½	spots 30s. seeing terrible
7 5[illegible]	0 . 58 W	63	20	0	6.70	M	1½-1½-1½	spots 20s. seeing improving
9 2[illegible]	2 . 28 W	"		0	"		1½-1½-1½	spots 20 s.
[illegible]	2 . [illegible] W	63	45	0-1	9.60	-	¾-¾-¾	spots 30s
[illegible]	[illegible] 41 W	16	31	0-2	6.97	B8	1½ 1½ 1½	bright auroral zone in north at 1.30 spots 30s seeing variable.
3 [illegible]	1 37 W	16	05	2-0	7.38	A0	1½ 1½ 1½	spots 30s guiding very poor - guiding terrible.
5 [illegible]	[illegible] 31 W	45	59	2	7.12	A2	1½ 1½ 1½	spots 30s. getting quite hazy during the exposure
[illegible]	0 42 W	14	27	2	5.96	A2	1½ 1½ 1½	
	base outside.						1 3/7	Clouded right up just at dawn.
								Humidity high
								Put heat on around

					M.Watch	S.Watch
Nov. 11	12	+07.7	+22.8	+24.2	+06.1	

Date Wed ~~Oct~~ Nov. 1936 11-12 Hal-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
- 1539	HD 206155	21 35.1	08.44	I-24	Extra II	010	+3.4	5 53	7.20	3	
	Focus			"	"	"	went to 4.5 4.5				
1538	HD 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	HD 27483	04 15.2	13 38	"	Extra II	010	3.7	11 02	12 30	1	
- 1540	" 34364	05 11.8	33 39	"	"	"	3.6	12 33	1 53	2	
1541	" 35189	05 17.9	16 36	"	"	"	3.6	1 58	323	3	

Mirror removed Thursday p.m. and replaced Friday Nov. 13th.

Mirror Nov 16 H-Hd

plot on I-12

1541F	Focus			I-12	Extra II	010	-3.5			4	
	Tilt 19.5	Setting 1: Focus				26.30					
		" 5	"			26.40					

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp.	REMARKS
7.20	W 50m	8.54	2	6.8	A0	3,6	Thickening from start - nothing from 6.30 on.
	Scale outside					no filter	(better focus would be 23.55)
						4/3	
						no filter	
						8.3	Set 1
						8.8	" 5 Spots 5 min.
	W 24m	60 23	2	2.0	B0p	8,8	" 9. Clouds again.
	E 45m	13 45	1	6.48	F2	3,3,3	spots 30 sec 7 on Miss Patterson
	0 14 E	55 42	1	6.09	B9	3,3,3	" " " " "
	1 11 W	16 39	2	6.15	A2	3,3,3	" " " " " clouds again.
							thick at 3.23
	Very good cent. Mirror solution about 48-50°F.						Cloudy: no observing 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.

Scale outside 10/8

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Date Monday, Nov 16-17 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.	
1542	HD 218235	23 01.3	+17 59	I-12	Astra II	010	set -5.0	7 28	8 03	1
1543	218792	23 05.7	+17 03	"	"	"	-5.0	8 06	8 56	2
~~1544~~	8944	01 23.0	+16 34	"	"	"	-5.1	9 00		3

Wed Nov 18 Hd

Changed to I-25

1543F	Focus						-6.1			1

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp.	REMARKS
	Clouds in afternoon + early evening						Set focus about 26.27 or 28
3 ..	0 26 W	+18 10	0	6.48	F2	1½ 1½ 1½	Seeing very bad. Heat had 'cross' around mirror (clouds last few mints), but were few moments of steady seeing, figure seemed good.
9 56 2	1 14 W	+17 15	1	7.12	K5	1½ 1½ 1½	
3		+16 45		7.17	F5	½	Clouds 9^{08}. Closed shutter.
							Closed up 11^{10}
							M Watch / S. Watch
							Nov. 17 12 +10.2 +18.4 -0.2 -10.3
							Nov. 18 12 +10.8 +17.9 +030 -03.8
	bare outside					no filter 4/3.	setting 1. ~~Tilt~~ 23,25 Focus 23,55
							in focus 1384F.
							better focus 23.70 set at that.

Date Wed Nov 18-19 1936 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
1544	HD 210334	22 04.6	45 15	I-25	Cutra II	010	-6.0	5 53	7 53	4	1/20
*Setting 1	Focus			"	"	"					
-1545	HD 5394	00 50.7	60 11	"	Process	"	-6.0	8 04	8 09	1	
								8 11	8 21		
								8 24	8 32		48*
1546	HD 9709	01 30.0	46 36	"	Cutra II	"	-6.0	8 42	11 02	2	1/13
1547	HD 26398	04 05.4	16 22	"	"	"	-6.0	11 07	1 07	3	34W
1548	HD 44867	06 19.1	16 07	"	"	"	-6.0	1 11	2 51	4	05W
1549	HD 43947	06 13.9	16 03	"	"	"	-6.1	2 54	4 34	1	53W
1550	63630	07 44.8	46 12	"	"	"	-6.0	4 39	6 01	2	49W

Ending Time E.S.T.	Hour Angle End	Declination		Seeing	Ptg. Mag.		Comp.	REMARKS
753	W 1h 20	45	26	1	7.30	G5	3,3,3	spots 30s — for 7.S.P.
	bare outside						no filter 3/2	Tilts 23.25 Focus 23.70
809					2.01	B,P	no filter 88	set 1
8 21							88	~~set~~ 5 — spots 5m
832	5 46m ~~1 45~~	60	22	2			88	set 9 - wide slit
1 02	W 1h 13	46	45	2	7.00	B9	3,3,3	spots 30s.
1 17	0 34W	16	29	1	6.97	B8	3,3,3	spots 30s. - for RJN.
2 51	0 05W	16	07	1	7.13	G5	3,3,3	spots 30s
4 37	1 53W	16	04	1	7.09	G0	3,3,3	" "
[illegible]	1 49W	46	06	1	6.61	A3	3,3,3	sky filling in towards end of exposure

Put heat on around mirror as weather forecast calls for warmer weather.

				M. Watch	S. Watch
Nov. 19	12	+11.7	+17.4	+09.3	+05.0

1936

Date Thursday, Nov 26-27 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.	
		Hd-H								
1550 F1	Focus test			I-12½	Astra II	010	-6.5	5 15		3
~~1551~~	~~HD 209193~~	~~21 56.4~~	~~+30 57~~	~~"~~	~~"~~	010	-6.5	5 35	6 10	1
				Cleaning off again 8 30, but snowing continuously from						
1551	HD 16220	02 31.2	+32 27	I-12½	Astra II	010	-7.0	10 37	11 27	2
1552	21242	03 20.5	+28 23	"	"	"	-6.8	11 31	1 06	4
1553	34762	05 14.7	+27 51	"	"	"	-6.9	1 15	2 06	1

Ending Time L.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp.
3	12^3, 7^3	autumn thin base.	From	2.6	2.8	OK
1	Thick from 5^{45} on.			7.32	F0	1½
	from 6^{15}					
	clear (?) sky.					
[illegible]	00 W	+32 37	0	6.71	F5	1½ 1½ 1½
[illegible]	1 44 W	+28 30	d	7.29	G5	1½ 1½ 1½
2 [illegible]	0 55 W	-27 53	0	6.28	B9	1½ 1½ 1½

REMARKS

					M. Watch	S Watch
Nov.	20	12	+12.0	+16.4	+13.0	+09.6
Nov.	21	10	+12.3	+15.7	+07.8	+13.9
Nov.	23	12	+13.5	+13.7	-06.0	-16.3
					Reset	- stopped.
Nov.	24	12	+14.0	+12.5	-01.0	-07.8
Nov.	25	12	+14.5	+11.9	+03.5	-01.7
Nov.	26	12	+15.0	+14.1	+08.4	+04.1

— Light clouds 11^{55} — 12^{25} Light clouds sky hazing up image partially gone at 2.05. Sky remained cloudy with no substantial clearing until 3.15.

Nov.	27	12	+13.7	+10.5	+14.6	+05.2

Added 0.5 a M.W.

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

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

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Mag	Exposures 3	2	1	0	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	7½	11	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	4½	6	7½	9

Date Binaries Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	1936 Instrument α	δ	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.
				m	′			Mar. 26.		
2951	HD 96528	11 02.3	+23 52	040	40	A2 645	50km	May 8, 15	28 June 3, 4.5, 9, 12, 16	
4129	" 145849	16 08.1	36 41	095	36	K5 686	26 "	" 8, 9	25 " 3.5	8.9 12, 16, 18 22, July 1, 3
~~4217~~	~~" 149420~~	~~16 29.6~~	~~30 43~~	~~31.0~~	~~39~~	~~F0 694~~	~~96 "~~	~~Apr 26 May 15, 26~~		Orbit already determined
4351	154732	17 02.1	48 57	031	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 24
4437	158837	17 26.4	02 48	283	46	G0p 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	

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

July 3 7. 24. 27. 28.

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April	66	783
May	98	881
June	145 -	1026
July	167 -	1193
Aug	131 -	1324
Sept.	112	1436
Oct.	76	1511 (one number repeated, or 2 plates, 1454)

approx. 1935 position of M 13 : 16 39.4 ; 36° 35'
α Herc 17 11.7 14 27