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Monday, May 2-3, 1938. H-L cloudy with rain

Date Tuesday, May 3-4, 1938 H-L Julian Day.

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Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
						M.C. S.C. S.W. M.T. S.T. May 2 10 -03.0 -16 ^s .5 -13.2 -21.2 -0.7
						May 3 10 -03.2 -168 -10.6 -22.6 -0.7
	0 32 W +32 13	1	7.47 F2	1-1-1		Supp. List. Light clouds much of time.
	x 1 10 W +72 53	1-2	7.55 K0	1-1-1		
	2 04 W +28 52	2	6.74 F2	1-1-1		
	0 40 W +61 53	2-1	7.10 A2	1-1-1		Supp List. large sky slowly filling in sky white at L.I.O. rise at 2.10
						Bright sun 20 ³⁰ -
						Grand display 22 ³⁰ . Reaching to about -10° in a meridian. Rays meeting in fairly small area about 8+15. Rapid change. At times definite shape <u>lower visible</u>
						may 4 10 -03.7 -16.7 -0.3 -24.0 -0.7 may 4 -1.0 ←

Date Wed May 4-5, 1938 Hal-L Julian Day

6

Ending Time EST.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
9 31	W 3 ^h 51	13 14	1	7.48 K ₀ 1, 1, 1	between W 2 ^h 45 and W 2 ^h 55 telescope was unstable.
1 15	W 1 ^h 32	15 29	1	7.53 K ₀ 1, 1, 1	
01 04	0 12 E	44 40	1-2	7.57 A ₀ 1, 1-1	Due came to end of run.
2 38	0 18 W	29 07	1-2	7.44 A ₅ 1-1-1	
5 55	0 43 E	29 07	2	6.93 A ₀ 1-1-1	scattered clouds at 3.20, clearing again at 3.40
	1 10 E	32 02	2	5.45 B ₀ 1-1-1	clouds during most of exposure
					C.T. M.C. S.C. S.W. M.T. S.T.
					May 5 10 -04^s.0 -1^m 16^s.5 -10^s.4 -25^s.2 -0^m.8
lakes all	lakes clearing now and again night.				May 6 10 -04^s.5 -1^m 16^s.4 -09^s.4 -27^s.8 -0^m.9

Date ¹⁹³⁸ *Saturday May 7-8* H-MR Julian Day

③

Date 1938 Sunday May 8-9 Y-L Julian Day

⑦

Date ¹⁹³⁸ Thursday May 12-13, H-MR

Julian Day

5

Clouded over just before starting (20¹⁰ - 21²⁵)

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		+40°F at 4 A.M.	REMARKS				
22 45 ^m	—	+27° 42'	3	6.44 B9	1-1-1	Supp. List.	Clouds most of time, Plate OK Plate undoubtedly N.G.				
24 10	W 1 ^h 31 ^m	+60 26	3	7.06 A0	1-1-1	Supp. List.	Some cloud just front.				
3	W 1 37	+57 52	3	7.47 F2	1-1-1	Supp. List.	or clouds.				
22 53	W 2 19	+58 07	3	7.46 K0	1-1-1	Supp. List.	Spent some time unsticking dec. clamp.				
	—	+30 58		7.32 A0	1	clouds at start	clouds continually passing over.				
	OUTSIDE	THROUGH	BASE	—	4½-6	SLIDE=26.27, TILT=19.45					
						M.E.	S.C.	S.W.	M.T.	S.T.	
						May 13 10	-07.5	-1 15.1 ^{m s}	+03.9 ^s	-36.8 ^s	-1.0 ^m

Date Friday, May 13-14, 1938 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
3125	HD 93075	10 39.8	+57 26	I-12	Actin II	Set 010	+9.0 +9.2	20 17	21 32	1
3126	106112 106053	12 07.5 12 07.1	+78 10 +78 00	"	"	"	+8.8 +9.1	21 37	22 17	2
3127	108399	12 22.1	+72 29	"	"	"	+9.1 +9.0	22 21	23 11	3
3128	114446	13 05.5	+57 22	"	"	"	+9.3	23 15	24 25	4
3129	140084	15 36.7	+76 46	"	"	"	+8.5 +8.7	00 32	01 47	1
3130	150010	16 33.2	+72 49	"	"	"	+8.4 +8.8	01 50	02 40	2
3131	166180	18 04.4	+30 59	"	"	"	+9.0 +8.8	02 45	03 43	3
3132	189613	19 55.8	+31 33	"	"	"	+8.9 +9.0	03 48	04 16	4
	FOCUS	-	-	-	"	"	+8.7	04 20	-	05:06
Sat May 14-15 H-MR Rain. 52 visitors, R. S. Howard clouds the rest of the night										

Date Monday, May 16-17, 1938 H-L Julian Day

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			M.P.	S.C.	S.W.	M.T.	S.T.
May 18	13		-09.5	-1 13.8	+32.4	+18.2 ^s	+0.2 ^m
May 19	15		-11.9	-1 13.5	+43.0	+17.0 ^s	+0.2 ^m
May 20	10		-10.0	-1 13.2	+43.2	+16.0	+0.2

Date 1938 May 20-21 Friday Hd MP Julian Day 2444380

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Date 1938 May 21-22, Saturday; H-MR Julian Day 2444113

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Date Sunday May 22-23 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
3144	HD 99267	11 20.3	30 32	I-12	asha II	010	14.8	8 30	9 40	4	2 ^h 00 W
3145	HD 114723	13 07.3	32 ³⁹ 28	"	"	"	14.9	9 45	10 55	1	1 29 W
3146	HD 131764	14 50.4	30 28	"	"	"	14.9	10 59	12 09	2	1 00 W
3147	HD 152224	16 47.0	32 44	"	"	"	14.8	12 15	01 13	3	0 08 W
3148	HD 153894	16 52.1	27 21	"	"	"	14.9	01 17	02 27	4	1 13 W
3149	HD 162668	17 47.1	30 01	"	"	"	15.0	02 38	04 00	1	1 55 W
		</									

Date Trunk May 24-25, 1938 Hd - L Julian Day

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Ending Time
 13.7.

Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS	
4 03 W	+59 34	2	6.19	A0	1-1-1	Light clouds
	+30 17	2	7.06	F0	1-1-1	Haze. Clouds start from 21 ⁵⁰ — closed up 22 ⁴⁵ . Clearing again 23 ³⁰ —
0 07 E	+46 36	3	6.77	A2	1-1-1	
0 49 W	+73 57	3	6.82	A2	1-1-1	
0 47 W	+58 40	3	6.58	A2	1-1-1	
1 23 W	+12 46	3	4.99	A3	3	setting 3
1 38 W	"	"	"	"	1-1-1	" 6
1 59 W	+32 25	3	7.20	A0	1-1-1	
OUTSIDE	THROUGH	BASE	-	-	4 ¹ / ₂ -6	

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
3 2	H 19W	+13 22	2	7.00	F5 1-1-1	Clouds about of time.
						Clouds to 20 ¹⁰ .
						thinned out once or twice - but not permanently.
						May 28, 08. mc. -13^s.5 B.C. -1^m 11^s.2 m.T. +02^s.7 S.T. -00^m.0
						Note: Wooden mount for 45° flat for observing visitors eyepiece is split.

Date Saturday, 1938 May 28-29, Hd-S-MR Julian Day 2454810.5

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Date Sunday May 29-30 Y-L Julian Day

[illegible]

Date Mon May 30-31, 1938 Kd-L Julian Day 193

[illegible]

Date Tuesday May 31 - June 1, 1938 H-L Julian Day

[illegible]

Date Wednesday - June 1-2, 1938, M-L Julian Day.

②

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
23 3 1	4 10 W	30 46	1-0	7.44 F2	1-1-1 Clouds for some time after sunset image faint with haze at 9.50. Heavy clouds from west at 10.45
30 2	0 59 E	30 22	1	7.54 A3	1-1-1 haze, sky filling in at midnight. Star gone at 00.30. Clear again at 1.30 just nicely started when sky suddenly filled in from the N.W. at 1.45. closed at 2.30 sky thick.
			1	6.66 B9	1- M.C. S.C. S.W. M.T. S.T. Jun. 2 10 -16.0 -1 10.0 -8.2 -06.9 -0.2 reset

Date Thursday, June 2-3, 1938 - M Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature <i>above 0°</i>	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
3185	HD 99832	11 29.0	30 58	I-12	Ashâ II	.010	+14.7 ⁰ +18.8 ⁰	20 42	22 42	2
3186	154160	16 58.7	14 41	—	—	—	+14.2 18.8	22 51	1 01	1
3187	169169	18 18.3	14 57	—	—	—	+13.8 ^{15.0} 18.0	1 11	2 51	4
3188	193349	20 14.7	14 04	—	—	—	+14.0 18.4	2 58	3 48	1
F-							+14.5	-	-	
Friday, 1938 June 3-4, MR-N										
3188 F ₂	FOCUS	—	—	I-12½	Ashâ II	^{set} .010	+15.6	04 30	—	3
④										

OUTSIDE

attenuation = 2

5

7

Date Friday, 1938 June 3-4, MR. (^{platis}_{form}) Julian Day

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Date Saturday, 1938 June 4-5 H-MR Julian Day 2454856.5

5

48

About 80+ visitors. Cloudy with rain early evening.
1-H shaved skink, MR atropo.

Clearing about 10⁴⁵ SST. Mon. too low, shows
abt 40 visitors & Bortis.

Ending Time R.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.			REMARKS
							+53° Fd 3:15 A.M.
	W 1 ^h 41 ^m	+61° 52'	1-2	7.10	A2	1-1-1	Supp list
00 ⁴⁷	E 0 03	+58 39	2	6.58	A2	1-1-1	
02 ⁴⁰	W 0 33	+30 20	2	7.08	F5	1-1-1	
03 ⁰⁰	W 1 27	+12 09	2	6.88	B8	1-1-1	
03 ⁵⁰	E 0 27	+28 14	2	6.27	B3	1-1-1	SET 3
-	OUTSIDE	THROUGH	BASE	-	-	4 1/2 - 6	SLIDE = 26.23, TILT = 19.5. SET 7.

Date Sunday 1938 June 5-6 Y-L Julian Day.

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Date Monday, June 6-7, 1938 M Julian Day.

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Ending Time L.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
					12 9	clouds delayed starting - then cleared a little.
4 7	0 29 W	29 22	3	7.04	F0 A2 1-1-1	Clouds at intervals throughout exposure, heavy clouds at end.
						Still thick at 24.00 with lightning all around.
						Closed Dome
						M.C. S.C. S.W. M.T. S.T.
						Jun. 7 10 -19.0 -1.09.2 +04.2 -13.8 -0.2^m

Date. Tuesday, June 7-8, 1938, L (for M) Julian Day

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Date Wednesday, June 8-9, 1938 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
3205	HD 114446	13 ^{05.5} 05.3	+57 22	I-12	Astria II	010	13.2 13.0	20 48	2 0	1 15 W
3206	132560	14 54.7	+58 02	"	"	"	13.2 13.0	22 12	23 32	2 12 W
3207	166180	18 04.0	+30 59	"	"	"	13.0 12.6	23 38	01 11	3 00 SE
3208	168271	18 13.8	+12 56	"	"	"	13.0 12.7	01 15	01 50	4 02 SW
3209	168431	18 14.5	+12 09	"	"	"	13.0 12.8	01 54	02 54	1 28 W
3210	169223	18 18.6	+16 38	"	"	"	13.0 12.7	02 58	03 46	2 26 W
	FOCUS	-	-	"	"	"	12.7	03 50	-	"

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King's Birthday

Date *Thursday, June 9-10 1938* 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
3211	HD 112734	12 53.8	+28 52	I-12	Astra II	set 010	16.6 16.5	20 48	21 33	3 1 31 W
3212	113021	12 55.7	+32 18	"	"	"	16.6 16.3	21 36	22 46	4 2 42 W
3213	128660	14 33.1	+43 16	"	"	"	16.6 16.3	22 51	23 51	1 2 51 W
3214	166180	18 54.4	+30 59	"	"	"	16.8 16.3	23 55	01 25	2 0 13 W
3215	164136	17 54.7	+30 11	"	"	"	16.5 16.5	01 28	01 40	3 0 38 W
								01 40	01 46	" 0 44 W
								01 46	01 49	" 0 47 W
3216	189847	19 57.0	+30 57	"	"	"	16.5 16.3	01 55	02 50	4 0 15 E
3217	199101	20 45.8	+33 03	"	"	"	16.5 16.2	02 53	03 45	1 0 12 E
	FOCUS	-	-	"	"	"		03 50	-	" 0 50 E
Saturday, June 11-12, 1938 M-MR cloudy - no visitors, no not one all night										

⑦

Date Monday June 13-14, 1938 H-L Julian Day.

[illegible]

Date Tuesday June 14-15, 1938 H-L

Julian Day.

[illegible]

Date Wednesday - June 15-16, 1938, M-L Julian Day.

[illegible]

Date Sunday June 19-20

Y-L

Julian Day.

[illegible]

Date Monday June 20-21, 1938, M Julian Day _____

[illegible]

Ending Time EST.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
		base outside			$\frac{12}{8}$	focus good.
21 47	2 19 E	45 02	2	6.59 B9	1-1-1	
23 22	1 58 E	45 46	2	7.21 A0	1-1-1	Cassegrain switch refused to act again. Pulled flares. Both exhausted. Wasted a bit of time.
25 32	1 17 E	44 12	2	7.4 B8	1-1-1	
27 37	X 50 W	15 53	2-1	7.46 B9	1-1-1	Cassegrain focus gone again. Fuses sharpened every time but in vain. Couldn't make it go.
3 25	0 49 W	14 54	(couldn't focus) - 0	6.56 A0	1-1-1	

		MC	SC	SW	H.T.	S.T.
Jun. 21	14	-28.7	-1 10.3	+25.8	-31.8	-0.4

Date Tuesday June 21-22, 1958 S-N-L-H

Julian Day

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Ending Time EST.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
21	1 18 W				<u>Focus on B Boote</u> . Clouds delayed start.
22	1 14 W				* † ‡ - Loss of Time.
23	0 03 W				← <u>Refocused</u> .
23	0 21 W	-04 07			
23	0 19 W				
23	0 54 E				← <u>Recollimated on X Sag</u> ; <u>refocus</u> on BSG 6512
23	1 58 W	-05 05			
23	2 26 W				
23	0 02 E				
23	0 46 E				Light Clouds
23	4 15 W				Unguided. Light Clouds
23	0 22 E		Unguided		* Dec. Q.M. gave trouble
					† Dec. Setting + Guiding went dead. Temporarily fixed by putting wooden spacer in relay and cleaning contacts.
					‡ Double slide plate holder motion sticking in Dec. Notable loss through 90° to get gravitation sublimit spring.

Date 1938 Wednesday June 22-23 S-N-H Julian Day



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Clouds in afternoon and evening. Partly clearing

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Date *1938 Thursday June 23-24, S-P-14* 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
3268	NGC 6205	16 39.3	+36 35	Newtrium	Astr II		80°F	09 12	09 18	1 32 E
3269	5904	15 15.1	+2 20					09 24	09 29	0 12 W
	5272	13 39.2	+28 43					09 56		
3270	6218	16 48.8	-01 50					09 36	09 46	1 16 W
3271	6254	16 53.6	-04 00					09 49	09 59	1 09 E
3272	6205	16 39.3	+36 35					10 02	10 07	0 46 E
3273	6779	19 14.0	+30 03					10 18	10 38	2 36 E
3274	6366	17 24.1	-05 01					10 45	11 33	0 32 E
3275	6402	17 34.1	-03 12					11 36	12 11	1 27 W
3276	6779	19 14.0	+30 03					12 15	12 35	1 56 W
3277	6366	17 24.1	-05 01					12 45	01 20	1 45 W
3278	6402	17 34.1	-03 12					01 22	01 57	1 13 W
3279	6760	19 07.7	+00 55					02 03	02 58	1 38 W
3280	7089	21 29.9	-01 07					02 57	03 03	1 49 W
3281	7078	21 22.2	+11 54					03 08	03 10	1 30 W
(15) 3282	6205	16 39.3	+36 35					03 18	03 22	4 52 W

Ending Time L.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
09 13	1 33 E				Focused on 109 Virginis. Moved plate in 2 mm!
09 29	0 02 W				Too high to reach eyepiece.
09 51	1 10 W				
09 59	1 09 E				
10 07	0 46 E				← Refocused on 7324
10 22	2 56 E				P developed 3269 + 3272
10 31	0 05 E				H " 3273 + 3271 m
10 31	0 58 E				11.00 - huge lost guide * for 2; cloud 11.06 - 11.18
10 40	0 27 W				
10 45	0 56 E				← Refocused on bright star in field of 6566.
10 45	1 45 W				P developed 3268 + 3275
10 50	2 13 W				
10 55	1 35 W				
11 03	0 49 W				
11 10	0 30 W				clouds exp. prob. 1 m
11 15	4 52 W				Squidging all plates

Date 1938 Friday June 24-25, S-P-L-H Julian Day _____

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Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS						
						M.C.	S.E.	S.W.	M.T. S.T.		
Clouded before starting exposure.					Jun. 24	10	-29.0	-1 10.1	+30.2	+23.0 ^s	+10.2 ^m
Clouded up 0 ⁵⁰ .					Jun. 25	10	-27.6	-1 10.5	+30.5	+20.4 ^s	+10.2 ^m
M-	showed 6 visitors over building and dome										

Date Sunday June 26-27, 1938 S-N-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
3283	NOC 6205	16	39.3 +36 35	Newtonian	Astro II		+62°F	21 10 11	21 15 16	135
3284	5904	15	15.1 +02 20					21 18 19	21 23 24	137
3285	5053	13	13.3 +18 03					21 27 28	21 47 49	138
3286	6205	16	39.3 +36 35					21 53 54	21 58 59	139
3287	6218	16	43.8 -01 50					22 05	22 15	0 28 5
3288	6254	16	53.6 -04 00					23 35	23 45	0 53
3289	6779	19	14.0 +30 03					23 51	00 21	
3290	6402	17	34.1 -03 12					00 24	00 59	1 26
3291	6366	17	24.1 -05 01					00 05	00 10	2 16
3292	6934	20	30.9 +07 11					02 19	02 44	
3293	7089	21	29.9 -01 07					02 47	02 57	1 31 E
3294	7078	21	27.2 +11 54					03 00	03 10	1 32
3295	6205	16	39.3 +36 35					03 14	03 19	4 52 V
								03	03	

201 1000L

Clouds all day; clearing at sunset.

Ending Time L.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
15	1 23 E		Poor		Focused on 109 Virginis.
21	0 09 W				
21	2 38 W				Good guide star. Cluster invisible. N developed 3283+84
21	0 39 E				2 Patch stopped.
22	0 28 E				2 Patch west by N. Guide star lost just at end. Thick. N developed 3285-87
22	0 53 W				Cloudy. Refocused on λ Aps, among clouds about 23. Guide star frequently lost in clouds. Sky very bad.
22	1 26 W				
22	2 16 W				Clouded over. Refocus on bright star in field of 6366. Clouds
22	0 31 E				
23	0 15 E				
23	4 52 W				
					Spinning all plates.

Date Monday June 27-28, 1938 S-PMR-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
3296	NGC 5904	15 15.1	+2 20	Newtonian	Astra II		+64°F	21 15	21 20	0 09
3297	6205	16 39.3	+36 35	-	-			21 23	21 28	1 07
3298	5053	13 13.3	+18 03					21 37	22 07	2 57
3299	6205	16 39.3	+36 35					22 10	22 15	0 19
3300	6218	16 43.8	-01 50					22 19	22 27	1 12
3301	6254	16 53.6	-04 00					22 29	22 37	0 08
3302	6366	17 24.1	-05 01					22 45	22 20	0 00
3303	6402	17 34.1	-03 12					23 23	24 03	0 35
3304	6779	19 14.0	+30 03					24 02	24 02	0 49
3305	6366	17 24.1	-05 01					1 09	1 44	
3306	6760	19 07.7	+00 55					1 47	2 32	28 W
3307	6934	20 30.9	+07 11					2 34	2 59	0 23 W
3308	6205	16 39.3	+36 35					3 02	3 07	4 33 W
3309	7089	21 29.9	-01 07					3 12	3 18	0 57 E

A

Date Tuesday June 28-29, 1939 5-MR-H Julian Day

Plate No.	Object	R.A. 1900 1935	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle Est
3310	NGC 5904	15 ^h 15.1 ^m	+02° 20'	Newtonian	Ashra II	-	+64°F	09 16	09 21	0 14 W
3311	6205	16 39.3	+36 35		"			09 25	09 30	1 02 E
3312	5053	13 13.3	+18 03		"			09 34	10 04	3 1 W
3313	6205	16 39.3	+36 35		"			10 09	10 14	0 17 E
3314	6218	16 43.8	-01 50		"			10 17	10 25	0 11 E
3315	6254	16 53.6	-04 00		"			10 27	10 35	0 11 E
3316	6366	17 24.1	-05 01		"			10 45	11 20	0 04 W
3317	6779	19 14.0	+30 03		"			11 26	11 46	1 20 E
3318	6402	17 34.1	-03 12		"			11 55	12 30	1 14 W
3319	6366	17 24.1	-05 01		"			00 36	01 06	1 50 W
3320	Mn. X.	17 27.1	-04 34		"			01 09	01 39	2 20 W
3321	6760	19 07.7	+00 55		"			01 41	02 26	2 4 W
3322	7089	21 29.9	-01 07		C 40			02 32	02 39	-
3323	6205	16 39.3	+36 35		"			02 42	02 46	4 16 W
3324	7078	21 27.2	+11 54		"			02 58	03 28	1 10 W

Ending Time E.S.T.	Hour Angle End.	Declination	Seeing	Ptg. Mag.	REMARKS
					← Focus on 3 Serpens June 28^d 13^h MC SC SW MT ST
01 21	0 ⁿ 14 ^m W				+24.5 -34.3 +37.2 +04.5 +0.2
01 30	1 02 E				
01 34	3 11 W				
01 44	0 17 E				
01 25	0 11 E				
01 35	0 11 E				← Focus on bright star near 6366 H guiding
01 20	0 04 W				
01 44	20 E				
01 27	1 04 W				← Focus on star near 6366
01 06	1 50 W				
01 33	2 20 W				
01 23	1 24 W				
01 21	-				MR guiding
02 46	4 16 W				← Focus on ε Pegasi Filter #40
03 28	0 10 W				Sguiding except where noted

Date *Wednesday, 1938 June 29-30* S-MR-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
3325	M.G.C. 5904	15 15.1	+02 20	Revolving	E40	-	68°F	21 18	21 28	0 24 W
3326	6205	16 39.3	+36 35		"			21 36	21 42	0 45 E
3327	5053	13 13.3	+18 03		Orsta II			21 50	22 25	3 24 W
3328	6218	16 43.8	-01 50		E40			22 31	22 37	0 06 W
Thursday, 1938 June 30 - July 1, 3-MR-H. rain.										

Ending Time L.M.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
20 ²³	0 24 W		large		Focus on 3 Perseus MC SC SW MT ST
21 ⁴²	0 45 E		and		June 29 ^d 10 ^h +23.5 ^s +2 ^m 23.5 ^s +39.1 ^s +03.0 ^s +0.2 ^m
22 ²⁵	3 24 W		clouds.		S. all plates
22 ⁵⁷	0 06 W		thick		Sidereal Clock stopped at 01 ^h 50 ^m , Reset.
					MC SC SW MT ST
					June 30 ^d 10 ^h +23.0 ^s +35.1 ^s +37.8 ^s +01.5 ^s +0.4 ^m

Date 1938 Friday July 1-2 S-H Julian Day

[illegible]

Cloudy all early night ^{partly} clearing 2²⁵

Ending Time
L.S.T.

Hour Angle
End

Declination

Seeing

Ptg. Mag.

REMARKS

Good?

Fraus m. & Equulei

Good guide stars but hard to reach.

5 guiding throughout.

Date Saturday July 2-3, 1938 Hd-T Julian Day.

⑤

Date Sunday July 3-4 Young Julian Day

[illegible]

Ending Time L.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp.	REMARKS
9 14	1 ^h 17 ^m W		1	124	K ₀	10	Selling &
9 19	1 22 W		1			10	" 6
9 47	1 22 E	46 01	2	3.79	B3	10	
11 37	59 ^m W	28 17	1	7.35 ³	F ₀ ²	1-1-1	For Dr Heard.
12 01	15 ^m W	44 06	1	7.00	A ₂	1-1-1	
2 0	1 28 W	31 29	1-2	7.42	F ₀	1-1-1	
3 14	31 ^m W	29 37	2	7.25	K ₀	1-1-1	
I-25 Hcl							
6 8 m	Set 0	Focus 23.1					notifier 10/10
	" 3	23.3	best				Found loose connections. 6 vint lights. ^{spect.} now ok.
	" 6	23.5					Selling in R A will only work one way
	" 10	Comp. test.					needs investigation
6 5	without filters	OK for comp					Control clock on pier wont run. needs fixing OK

[illegible]

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS				
9 07			1	3.62	B3	3, 3	Set 0	M.R.	S.W.	MT S.T.
9 27			2			3, 3	Jul. 4 10	+19.4	+38.7	-07.8 +0.9 ^m
9 47			2			3, 3	set 5	sidereal clock stopped.		
10 07 2			3			3, 3	set 0	Spots 10 m		
10 27		46.01	2			3, 3	" 5			
10 47			3			3, 3	" 9			
11 07 3			2			3, 3	set 0			
11 27			2			3, 3	" 5	Aurora		
11 47			2			3, 3	" 9			
12 07			2 → 1			3, 3	set 0			
12 33			1			3, 3	" 5			
12 53			2			3, 3	" 9			
1 13 1			2			3, 3	set 0			
1 33			2			3, 3	" 5			
1 53			2			3, 3	" 9			

Date.....Contd.....

Julian Day.

[illegible]

Hour Angle
Miles

Compute

2318

7

		M.C.	S.W.	M.T. _s	S.T. _w
Jul. 5	10	+18.2	+34.3	-09.8	+0.9

Date Tues July 5-6

Y - Graham 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
- 33 51	HD 124897 x Bootis	14 11.1	19 42	I 25	E 33	010	21.2	8 57	8 58	1
		"	"	"	"	"		9 01	9 03	1
- 33 52	HD 160762 x Hercules	17 36.6	46 04	"	"	"	21.2	9 22	9 37	2
33 53	H.D 165908	18 03.2	30 33	"	ashra II	010	21.2	9 47	10 17	3
33 54	HD 176053	18 53.3	31 52	"	"	"	21.0	10 25	12 15	4
33 55	HD 192715	20 11.2	15 00	"	"	"	21.0	12 28	1 35	1
33 56	HD 210334	22 04.6	45 15	"	"	"		2 23	3 43	1
Wed July 6-7				M-Hd-T						
Removed 25 inch camera - tilt 23 15										
Put on 12-inch				done below						
33 6 F ₁							15.7 21			1

Date Wednesday July 6-7, 1938 M-T Julian Day _____

[illegible]

Ending Time EST.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS					
	base outside	at 26.25.			$\frac{12}{8}$	focus too long, set to 26.17.				
						M.C.	S.W.	M.T.	S.T.	
						Jul. 6	10	+17.6	+29.6	-11.4 +1.0 ^m
10	1	23E	30 14	3-1	7.31	A0	1-1-1	Cassegrain focus refused to work, fortunately star		
								light clouds general at times, seemed in good focus; remained through exposure		
11	2	43E	30 28	2	6.66	B9	1-1-1	becoming clearer, large dropping		
12	3	29E	14 28	3	7.48	A0	1-1-1	heavy clouds at 12.55		
								remained thick, closed at 2.10.		
								cleared slowly later but too late		
								to make it worth opening.		
								(they said)		
								Richmond Hill Barn observed as		
								nova with very short-lived		
								maximum.		
								Jul. 7 10 +16.6 +33.5 -13.6 +0.7 ^w		
								Post		

needs grease, being alone
to night

Rkey

Date Thursday, July 7-8, 1938, M-T Julian Day

Went to find squeak in shutter opening.
Lower shutter cable came off pulley. Found squeak, greased it
and replaced cable after taking up a bit of slack.

Date Fri July 8-9, 1938 Ad-T Julian Day.....

[illegible]

Clouds and slight rain in evening. 102
 Clearing from 11.30

Ending Time
 E.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS	
1 54 W	16 10	2	7.14 F _s -	1, 1, 1	hazy clouds,
1 23 W	15 20	2	7.37 F _s	1, 1, 1	
2 27 W	14 23	1	7.12 G _s	1, 1, 1	some clouds,
Outside these base				10/10	
				MC	SC
				3W	MT
				S	ST
				S	m
				+12.0	+25.5
				+20.0	-18.0
					+0.3

July 9^d 10^h

Date Saturday - July 9-10, 1938, M-T Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature <i>Above Below</i>	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
3364	HD. 169820	18 21.4	14 55	I-12	Astra II	.010	21.8 27.0	10 44	11 56	1
3365	190537	20 00.2	30 57	—	—	—	21.4 27.1	12 00	1. 32	2
3366	194115	20 18.7	15 03	—	—	—	21.4 27.0	1 36	1. 3	3
									3 46	
3366F	Jovian	Known July 11/38		I-12	Astra II	.010	17.7			3

Date Mon July 11-12, 1938 Hd Julian Day

[illegible]

Date Tuesday July 12-13, 1938, M Julian Day

[illegible]

Date Wednesday July 13-14

Y
.....

Julian Day.

[illegible]

Date. Thurs. July 14-15, 1938 Hd-T Julian Day.

④

Cloudy earlier

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS					
1 43	W 3 ^h 07	44 47	1	7.57	A ₀	1-1-1				
1 53	W 2 ^h 17	44 59	1	6.81	B ₉	1,1,1				
2 29	W 2 ^h 43	43 09	2	7.27	A ₃	1-1-1				
7 00	W 51 ^m	15 57	2	7.41	F ₂	1-1-1				
Outside this base						12/12				
							MC	SC	SW	MT ST
Jul 15 ^d 10 ^h							+08.5 ^s	+41.8 ^s	+28.8 ^s	-32.0 ^s +0.8 ^m

Date *Friday July 15-16, 1938, M-T* Julian Day.

[illegible]

④

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
2 1 02.2	42 E	29 24	1	6.64 A0	1-1-1 set counter on best control to 16.4 galv. needle read 4 right.
2 1 22.3	31 E	15 41	1-3	7.13 B9	1-1-1 seeing improved greatly during this exposure.
2 1 58.4	06 W	28 05	2-1	7.5 B5	1-1-1 Haze 1100.
2 2 50	003 W	28 40	2	5.58 A0	1-1-1 Light clouds
Dec clamp refused to go off. Checked fuses etc. but wouldn't find trouble and after 25 m. no time left for another star so closed up. Left telescope vertical.					
MIC SC SW MT ST Jul 16^d 10^h +07.0^s +42.3^s +27.8^s -33.5^s +0.8^m					
Sat. AM. Fixed commutator of dec. clamping. OK now. Hd.					

Date Tues July 19-20, 1938 M-42

Julian Day

[illegible]

focused on α Cen.

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS				
					MC	SC	SVV	MT	ST
9 41	W 32 ^m	36 35		M guiding	Jul 18 ^d 10 ^h	+05.0 ^s	+43.7 ^s	+23.7 ^s	-38.0 ^s +0.9 ^m
10 21	1 00 E	32 57		Hd. "	Jul. 19 ^d 10 ^h	+03.0 ^s	+44.5 ^s	+24.5 ^s	-39.5 ^s +1.0 ^m
11 4	W 02 ^m	-1 43	focused on α Cen	M "	Clouds and moonlight latterly				
					Jul 20 ^d 10 ^h	+02.0 ^s	+46.1 ^s	+25.1 ^s	-41.5 ^s +1.0 ^m
					Chronometer reset				
					Jul 20 ^d 10 ^h	+01.0 ^s	+47.1 ^s	+24.6 ^s	+17.0 ^s +0.1 ^m
					Jul 22 ^d 10 ^h	-00.5 ^s	+48.2 ^s	+25.7 ^s	+15.0 ^s +0.2 ^m
					Jul 23 ^d 10 ^h	-01.5 ^s	+48.7 ^s	+26.7 ^s	+13.5 ^s +0.2 ^m
					Cassegrain re-aluminized.				
					Put back on telescope Friday.				

Date Saturday, July 23-24, 1938 M-T Julian Day

[illegible]

Date July 24-25 Sunday. Y-9-L Julian Day

[illegible]

Date July 25-26, Monday, 1938, M Julian Day

[illegible]

clouds low in NW.

Ending Time E.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
9 24 3	0 14 W	16 09	3-2	7.17 F8	1-1-1 <i>Star Hal</i> <i>MS. S.C. B.W. on plate M.T. S.T.</i>
0 31 4	0 31 W	44 58	3	6.81 B9	1-1-1 <i>Jul 25 10 -03.6 +49.9 +22.9 +11.0 +0.3</i> <i>Star Hd. clouds over image 9.45 - 10.20</i>
11 36 1	0 19 E	28 49	2	7.17 A0	1-1-1 <i>Image occasionally faint. lightning in northwest.</i>
2 57 2	0 45 W	28 05	2-3	7.5 B5	1-1-1
2 21 3	0 19 W	31 13	3	7.49 A0	1-1-1 <i>Image faint at times, haze.</i>
3 18 4	0 58 W	15 56	2-3	6.91 A0	1-1-1 <i>occasional haze</i>
3 41 1	0 21 E	44 53	3	6.25 A0p	1-1-1 <i>thick clouds shortly after exposure started</i>
					<i>base outside</i>
					<i>12</i>
					<i>8.</i>

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Date Wed July 27-28, 1938 Ad-L Julian Day

[illegible]

Date Thursday July 28-29 Y-T Julian Day

[illegible]

Date Fri July 29-30, 1938 hd-T Julian Day

[illegible]

Ending Time Z.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS	
9 10 1	W 1.6 ^m	16 10	1	7.17	F ₈ 1,1,1	} Found these plates loaded but unlabelled. spots?
10 03 2	W 1 ^h 08	28 18	2	7.33	F ₂ 1,1,1	
11 16 3	W 1 ^h 20	28 42	2	7.43	A ₂ 1,1,1	} Numbered correctly? numbered 3418 most " 3419 spectacular aurora " 5420 ?
2 16 4	W 2 ^h 27	44 13	2	7.56	F ₂ 1,1,1	
1 02 1	W 3 19	45 00	2-3	6.81	B ₉ 1,1,1	
2 11 2	W 1 30	46 29	2	7.28	B ₉ 1,1,1	
4 11 3	W 2 14	12 46	2	7.70	A ₅ 1,1,1	for M α 22 ^h 35 ^m Haze delayed setting on star
						MC SC SW MT ST S S S S m Jul 30^d 10^h -10.0 +53.3 +20.3 -0.5 +0.2
						note for R.I.N.:
						These plates are numbered wrongly. Do not letter them till we try to straighten it out.

Date Sat July 30-31, 1938 Kd-T Julian Day 2454988.5

[illegible]

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Date From Aug 1-2, 1938 Kd-L Julian Day

[illegible]

Ending Time L.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS					
9 11	W 9 ^m	16 30	5 → 3	7.44 F ₀	1,1,1					
10 22	W 1 ^h 29	28 18	3 → 2	7.33 F ₂	1,1,1					
10 55 3	W 1 ^h 22	32 38	2	6.96 F ₅	1,1,1	Brilliant aurora - streamers & curtains,				
11 04	1 52 W	44 11	2	7.46 A ₅	1,1,1	Hazy.				
11 11	2 43 W	45 12	2	7.12 F ₀	1-1-1	Hazy				
11 14	2 36 W	29 08	2	7.42 B ₉	1-1-1					
11 17	2 55 W	30 20	2-1	7.46 B ₀	1-1-1					
11 21	2 22 W	14 57	2-1	6.73 A ₀	1-1-1					
						M.P.	S.P.	S.W.	M.T. s	S.T. m
Aug. 2 10						-11.0	+57.3	+17.9	-05.8	+0.4

Date Tuesday Aug 2-3, 1938 M-L Julian Day

[illegible]

Reading Time L.S.T.	Hour Angle End		Declination	Seeing	Ptg. Mag.		REMARKS
1 7 1	1 02 E	45. 47	1-2	7.21	A ₀	1-1-1	Set pointer to 21.25
10 42 2	0 38 E	44 13	2	7.6	B ₈	1-1-1	
3	0 40 W	44 14	2	7.4	B ₈	1-1-1	
1 36 W	14 27	2	7.48	A ₀	1-1-1		
0 35 W	17 42	2-3	7.78	M _a	1-1-1		
0 40 W	43 51	3-4	7.33	A ₃	1-1-1		
1 32 W	31 06	3-4	7.34	A ₂	1-1-1	set R ₂	
					7-10	" 7 $\frac{1}{2}$	
							ME S.E. S.W. M.T. S.T
							Aug. 3 10 - 15.5 + 54.6 + 12.6 - 07.6 + 0.4

Date Wed Aug 3-4, 1938 Ad-L Julian Day

80

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Lightning flashes showing in western sky all night.

	MC	S.C.	SW.	M.T.	ST.
Aug. 4 13	-17.1	+55.3	+11.3	-09.6	+0.4 ^m

Date Thursday - Aug 4-5, 1938, M-T Julian Day.

[illegible]

Date Fri Aug 5-6, 1938 Hd-L Julian Day

[illegible]

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Date Saturday, Aug 6-7, 1938, M-T Julian Day.

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.
							Above Belur		
3458	HD 189086	19 53.2	30 30	I-12	Natrat	1010	19.8 26.0	10 27	11 05 2
3459	198414	20 45.1	45 05	—	—	—	19.7 26.0	11 08	11 52 4
3460	199206	20 50.6	44 44	—	—	—	19.7 26.0	11 54	00 38 1
3461	207431	21 43.8	43 32	—	—	—	19.8 26.1	00 44	01 36 2
3462	209205	21 56.5	31 03	—	—	—	19.8 26.1	01 43	02 53 3
3463	215566	22 41.0	44 14	—	—	—	19.7 26.0	03 00	03 36 4
3464	218097	23 00.2	32 50	—	—	—	19.8 26.0	03 40	04 30 1
				Focus Test			Outside through K...		

Ending Time EST.	Hour Angle End		Declination		Seeing	Ptg. Mag.			REMARKS
10:12	0	07 E	30	36	2-4	6.88	A0	1-1-1	about 200+ visitors showed moon and Betelgeuse with 74", Venus, Jupiter etc with 4"
11:24	0	11 E	45	14	4	7.47	A0	1-1-1	set pointer to 18.6
00:30	1	29 W	44	51	4	7.40	B9	1-1-1	
01:30	2	34 W	43	42	3	7.58	A0	1-1-1	
02:30	1	34 W	31	13	3-2	7.49	A0	1-1-1	
03:30	1	36 W	44	26	2-3	7.02	B9	1-1-1	
04:30	2	22 W	33	02	2	7.28	A0	1-1-1	Appeared double. Took 3 stars. (2nd star - 7.5 mag)
		From 26-10	Tilt	19.50					(Forgot to push plunger in. 1st star 7.5 mag 2nd star 7.5 mag)

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Plates for M

Date.....*Sunday, August 7-8, 1938*.....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
3465	HD 175785	18 61.9	30 11	I-12 $\frac{1}{2}$	Astra II	^{set} .010	^{above} 24.2 ^{below} 30.0	20 32	22 12	1 05 W
3466	" 190047	19 58.0	30 50	"	"	"	" "	22 17	22 50	2 23 E
Monday, Aug 8-9, 1938 M + (T, P, N)										
3466 S ₁	Used two apertures on cethraide of cassegrain about 22" X 15"			I-12	Astra II	.060		11.30		1
3466 S ₂	Set object in front of die at 45° angle. Sky cloudy most of time. Displaced mirror to aperture of 53"			-	-	-				2
3466 S ₃	and covered unused portion of end of telescope with black paper.			-	-	-		2.30		2

Set needle at 21.55

Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
0 05 W	30 13	0-1	7.31 A0	1-1-1 star difficult to find in haze.
0 25 E	30 56	0	6.55 B8	1-1-1 case focussing gave out, focus becoming poor sky filled in solidly at 22.50. closed up at 1.30, sky thick Checked case focussing and it works at present.
Exposures	Setting			
15 R	-1.5	white card	filter	strip 1202 with photo 60 R.
30 R	0	"	38A	filter 38A
60	+1.0	"		scale 15 R.
120	+1.5	"		
10 R	-1.5	white card	38A	strip 5 m with filter (lowered light)
5 R	0	"		scale 45 R.
30 R	+1.5	"		
15 R	1.5	Earth		
5 R	2.0	"		
	2.5	"		
	3.0	"		
16 S	-0.5	16 S	4.0	Leaves
8	0.0	8	4.5	Leaves
32	+0.5			white card
16	+1.0			Earth
8	+1.5			Leaves
32	+2.0			white card
16	+2.5			Earth
8	+3.0			Leaves
32	+3.5			white card
				Earth
				Filter 38A.
				(all in shadow)
				strip 10 m.
				scale 45 R.

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Date contd Aug 8-9 M Julian Day

[illegible]

146

Aug. 8

10

M.P.
-22.3

S.E.

S.W.

M.T.

S.T.

-01.7
adv. 1 m

+08.1

-19.2

+0.5

Ending Time
E.S.T.

Hour Angle

Declination

Seeing

Ptg. Mag.

REMARKS

End
Eclipses

Object

Setting

2

10 2

leaves

-0.3

10

paper

1.0

30

earth

+1.5

10

leaves

1.0

10

paper

2.5

30

earth

2.0

10

leaves

2.7

10

paper

3.0

30

earth

3.5

10

leaves

4.0

10

paper

4.5

40 2

leaves

-1.5

4

paper

0

40

earth

|

40

leaves

|

4

paper

|

40

earth

|

40

leaves

|

40

paper

|

40

earth

|

40

leaves

|

80

paper

|

5

earth

4.5

80

leaves

-1.5

5

paper

0

60

earth

|

70

leaves

|

5

paper

|

60

earth

|

40

leaves

|

30

earth

|

40

leaves

|

3

paper

|

30

earth

4.5

strips 10 m +
scale 45 rstrips 10 m +
scale 45 rstrips 10 m +
scale 45 r

142

Date Tuesday, Aug 8-9, 1938 M.

Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature <i>Above Below</i>	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
3467	H.D. 169247	18 18.7	14 39	I-12	Astron II	010	20.3 26.7	20 16	20 52	3
3468	178568	19 4.0	14 17	—	—	—	20.3 26.6	20 54	21 42	4
3469	188651	19 51.1	29 56	—	—	—	20.3 26.6	21 45	22 15	1
3470	190537	20 00.3	30 57	—	—	—	20.2 26.6	22 17	22 55	2
3471	194115	20 18.7	15 03	—	—	—	20.3 26.6	22 57	23 43	3
3472	207431	21 43.8	43 32	—	—	—	20.2 26.6	23 46	00 44	4
3473	208835	21 53.9	46 23	—	—	—	20.2 26.6	00 46	1 36	1
3474	209484	21 58.7	29 44	—	—	—	20.2 26.6	1 41	2 15	2
3475	210661	22 6.8	28 45	—	—	—	20.2 26.6	2 17	3 11	3
3476	217477	22 55.9	30 33	—	—	—	20.2 26.6	3 13	3 39	4
3477	224801	23 55.7	44 42	—	—	—	20.2 26.6	3 42	4 00	1
3478	3 00 00.0	44 40	—	—	—	—	20.2 26.6	4 02	4 30	2
				Focus test.						

(12)

set pointer to 19.0

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
22 30	39 E	14 41	1	6.67 B9	1-1-1
22 42	34 E	14 20	1-0	6.72 B9	1-1-1
22 51	48 E	30 03	1	6.34 B9	1-1-1
22 52	17 E	31 05	1-2	6.93 A2	1-1-1
23 33	13 W	15 10	2	7.09 A0	1-1-1
23 40	11 E	43 42	2-3	7.58 A0	1-1-1
1 00	31 W	46 35	2-3	7.39 A0	1-1-1
2 01	05 W	29 53	2-3	6.99 B9	1-1-1
3 01	53 W	28 57	3-2	7.50 A2	1-1-1
3 39	32 W	30 45	2	6.52 A0	1-1-1
4 00	53 W	44 54	2	6.25 A0	1-1-1
4 30	19 W	44 53	2	6.51 A0	1-1-1

has outside.

12
8

Aug. 9 10 M.P. S.E. S.W. M.T. S.T.
-23.5 -00.5 +05.5 -21.0 +0.5

129

Date Tuesday, Aug 9-10, 1938, M - T Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature <i>Above Below</i>	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
3479	HD 15 75 82	17 19.0	17 00	I-12	Astron II	.010	21.1 27.5	20 21	21 51	3
3480	1876135	19 45.8	44 07	—	—	—	21.2 27.3	21 54	22 56	4
3481	193349	20 14.7	14 04	—	—	—	21.2 27.4	22 59	23 41	1
3482	193707	20 16.6	14 48	—	—	—	21.2 27.3	23 43	00 13	2
3483	202644	21 12.1	13 32	—	—	—	21.2 27.3	00 16	01 40	3
3484	209833	22 01.1	28 28	—	—	—	20.6 27.2	02 07	03 31	4
3485	210646	22 06.7	27 14	—	—	—	20.7 27.2	02 36	04 00	1
Wednesday Aug 10-10. occasional rain, quite cloudy thunderstorms on horizon.										

①

Thick till 10.00 then broken.

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
11 41	W 1 ² 45	43 10	1	7.27	A ₃ 1,1,1	Clouds at Joint
11 43	2 34 W	46 -40	1-2	7.14	A ₂ 1,1,1	
11 45	0 29 W	12 45	2	7.70	A ₅ 1,1,1	
11 46	0 46 W	14 58	1-2	6.73	A ₀ 1-1-1	
11 48	0 39 W	29 05	2-3	7.34	K ₀ 1-1-7	
11 49	0 3 W	16 54	2	6.83	F ₀ 1-1-1	
11 51	0 52 W	46 02	2-1	7.45	A ₀ 1-1-1	
Tilt: 19.48 focus: 26.17						M.C. S.E. S.W. M.T. S.T._m Aug 12 10 -26.7 +02.4 -02.6 -25.6 +0.5

Date Fri Aug 12-13, 1938 Hel-T Julian Day.

6

Date Sat Aug 13-14, 1938 Hd-T Julian Day

[illegible]

set thermostat pointer at 18.9

about 100 visitors showed & here 156
Ring neb, M13, with 74". T showed
Venus, Jup. moon with 4".

Ending Time L.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
11 43	W 1 ^h 45	44 12	2 → 3	7.46 A ₅	1, 1, 1 Gas focusing motor getting worse.
00 14	1 2 29	46 41	2	7.14 A ₂	1, 1, 1 Trouble with dec. setting.
01 01	N 3 45	29 38	2	7.50 A ₀	1, 1, 1 Haze at 1.05, thickened later, cleared partly at 3.00
01 13	N 3 12	14 57	2	6.73 A ₀	1, 1, 1 Partly cloudy 2.45, completely so cleared 3.59
01 14	Focus 26.17	Tilt 19.48			

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Plates for M.

Date Sunday, Aug 14-15, 1938, - 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
3503	H.D. 156341	17 11.9	16 47	I-12 $\frac{1}{2}$	Astra II	set .010	Above Below 21.6 27.5	20 31	21 31	3
3504	" 169169	18 18.3	14 57	"	"	"	21.5 27.5	21 36	22 36	4
3505	" 169820	18 21.4	14 55	"	"	"	" "	22 38	23 14	1
3506	" 188170	19 48.8	28 44	"	"	"	" "	23 21	00 41	2
3507	" 199961	20 42.0	46 00	"	"	"	" "	00 45	01 39	3
3508	" 208174	21 49.4	27 53	"	"	"	" "	01 43	02 43	4
3509	" 215242	22 38.7	46 38	"	"	"	" "	02 50	03 26	1
3510	" 218428	23 02.9	29 31	"	"	"	" "	03 30	04 30	2
Mon Aug 15/38 Hd I-12 focus was 26.18 Tilt 19.45 Changed to I-25 3510F Focus I-25 Astra II 010 21.2 27.2 Mon & Tues Aug 15-17 Rain. Hd L.										

(8)

Set pointer at 19.8

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
21 3	1 30 W	16 42	2-3	7.5 A ₀ 1-1-1	Delayed by Cass focussing.
2 30 4	1 29 W	14 57	2	7.4 A ₂ 1-1-1	
2 34 1	2 04 W	14 56	2-1	6.43 B ₉ 1-1-1	
2 41 2	2 04 W	28 47	1	7.17 A ₀ 1-1-1	focus becoming poor tried unsuccessfully
3 5	2 09 W	46 07	1	6.63 A ₀ 1-1-1	to refocus motor refuses to turn etc
4 4	2 05 W	28 02	1	6.77 A ₂ 1-1-1	after turning over by hand.
5 1	1 59 W	46 50	2	6.40 B ₉ 1-1-1	haze during 3506 wind increasing
6 8	2 34 W	29 41	2-3	7.23 B ₉ 1-1-1	image unsteady haze
					conditions greatly improved on 3509
					focussing again working more haze
					M.C. S.C. S.W. M.T. S.T.
					Aug 15 12 -30.6 +03.0 -07.2 -42.5 +0.5 ^m
					Set 1 23.1
					6 23.3
					9 23.5
					M.C. S.C. S.W. M.T. S.T.
					Aug 16 10 -32.3 +03.4 -09.3 -44.3 +0.5 ^m
					23.22

intrude third base no filter 3/3
 Aug 17 12 MC SC SW MT ST
 -33.7 +04.0 -11.3 -46.1 +0.4^m

would be best
 Aug 16 10 -32.3 +03.4 -09.3 -44.3 +0.5^m

Tilt 23.15

Date Wednesday Aug 17-18, 1938, 11 Julian Day.

[illegible]

Date Thurs Aug 18-19, 1938 Hd-T Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature <i>above below</i>	Starting Time E.S.T.	Ending Time E.S.T.	Exposure Sec	Dev
- 3512	MW 278 HD 164284	17 55.3	4 22	I-25	Extra II	010	19.7 26.0	7:58 8 02	8 36	41	17 m
- 3513	MW 292 HD 168957	18 17.3	25 1	"	"	"	19.5	8 39	9 59	3	109 25
- 3514	MW 317 HD 183143	19 23.0	18 5	"	"	"	19.5	10 03	11 33	4	1139 19
- 3515	MW 352 HD 198183	20 43.5	36 15	"	"	"	19.5	11 38	11 48	3	1103 3
3516	γ Cas HD 5394	00 50.7	60 11	"	"	"		11 58	0 06	1	
	"	"	"	"	"	"		0 07	0 11	1	
				"	"	"		0 11 ⁴⁰	0 13 ⁴⁰	1	
- 3517	MW 394 HD 217050	22 50.7	48 09	"	"	"	19.3	0 33	0 52	2	124 F
- 3518	MW 395 HD 217543	22 56.3	38 10	-	-	-	19.3 25.8	1 00	1 48	3	124 F
- 3519	MW 407 HD 229559	23 53.8	45 52	-	-	-	19.2	1 55	2 45	4	124 F
3520	MW 10 HD 6343	0 54.4	65 26	-	-	-	19.2	2 57	4 35	7	124 F
Focus Test outside through lens											
Friday Aug 19				Hd F changed to I-12							
3520 F	Focus			I-12	extra II	010	17.2			4	124 F

Set Thermoclast pointer at 18.6

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
8:36 4	W 7 ^m	+4 22	3	4.8	B5nc 3,3,3	Passing clouds all the time
9:54 3	W 1 ^h 09	25 1	4	6.9	B5e 3,3,3	
11:33 4	W 1 ^h 38	18 9	4-5	6.9	B5e 3,3,3	very muddy.
1:48 2	W 0 ^h 33	36 15	5	4.5	B6e 3,3,3	
4:11 1				2	Bop 8,8,8	setting 1
4:11				"	" 8,8	Setting 5
4:11	3 09E		5	5.2	B5e 8,8	" 9
5:12	0 ^h 24E		5	5.2	B5e 3,3,3	Trouble with dec setting again.
1:13	0 20W	38 21	5	6.4	B5e 3,3,3	
2:40	0 19W	46 02	5	6.5	B5e 3,3,3	
4:54	03W	65 36	5-4	7.1	B5e 3,3,3	
	Tilt 23.19			Focus 23.22		
4	Introduce this bar			10/10	ret 1 Focus 26.10	} Tilt 19.45
				" 5	" 26.20	
					26.17 best.	

Date Fri Aug 19-20, 1938. H.L.-T Julian Day.....

Hour	Angle	D
	End	
11	635	4
12	52	7
1	5	5
2	21	9
3	18	5
4	39	1
5	50	1

Cloudy earlier.

Set thermostat pointer at 20.6

Ending Time EST.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
					MC SC SW NGT ST
11:00	W 1 ^h 35 ^m	43 10	0	7.27 AS 2, 1	Aug 19 ^d 12 ^h -36.0 ^s +07.8 ^s -13.2 ^s -51.0 ^s +0.6 ^m
11:04	W 2 02	27 31	1	7.34 A0 1, 1, 1	
11:12	W 1 15	57 27	1-2	7.10 Bome 1, 1, 1	Light haze
11:18	W 2 21	42 25	1-2	7.11 Bome 1, 1, 1	Haze
11:25	W 1 08	55 10	2	7.16 Bie 1, 1, 1	Occasional haze
11:41	W 0 23	62 59	3-4	7.5 Bss(w) 1, 1, 1	Clouds delayed settling slightly. Seeing
11:55	W 0 56	16 36	4	7.59 Gs 1, 1, 1	improved, good dead for last half of day.
					Aug 20 ^d 10 ^h -37.0 ^s +07.0 ^s -17.0 ^s -53.0 ^s +0.6 ^m

Date Saturday, Aug 20-21, 1938, M-T Julian Day.

[illegible]

About 30 visitors, alternating cloudy and clear. Showed P Cygni, M13, M57 with 7x inch,
Jupiter etc with 4".

Set pointer first to 20.2, temp. apparently
rising as found galvanometer out of sight to left
15 minutes later. Reset to 20.45. Left 110.5 with
circuit off temperature.

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
13 31	1 47 W	15 54	3-2	7.48	A2	1-1-1 quite hazy near horizon image faint.
01	2 37 W	15 51	2	6.68	B9	1-1-1 haze worse, image very faint at times.
	1 43 W	28 01	2-3	6.77	A2	1-1-1 Somewhat hazy at first
	2 50 W	27 25	2	7.07	A0	1-1-1 Thick at 230 Cleared partly at 250
	1 40 W	46 00	3-2	6.82	B9	1-1-1 Light haze at 240
01	1 32 W	47 24	2	7.03	A2	1-1-1 Some haze at start

Date Sun Aug 21-22, 1938 Hd-L Julian Day.....

[illegible]

Cloudy earlier with occasional breaks.
 Set thermostat pointer at 18.3 168

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
12 ³ 3	2 ¹⁴ W	27 32	1	7.34	A ₀ 1, 1-1	
3 12	1 29 W	61 33	1	6.6	B ₀ 1-1-1	(overexposed)
				O.R.	B ₀ 3	set on this star, but too many stars in field
1		65 37	1	7.1	B ₀ 1-1	to make identity certain.
						light clouds, thick at 1.50
						Sky hopeless, closed at 2.45
						MC BC SW MT ST
						Aug 22 ^d 10 ^h -39.5 ^s +07.9 ^s -19.1 ^s -57.0 ^s +0.6 ^m

Date Monday, Aug 22-23, 1938, M

Julian Day

[illegible]

set pointer 19.75

Ending Time R.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
21 12 2	0 01 W	45 46	.2	7.21 A0	1-1-1 light clouds over most of sky at start ^{image faint} closer later
21 6 3	1 10 W	15 52	2-1	7.48 A2	1-1-1 image faint, faint auroral streaks near N horizon below cloud
25 26	1 11 W	30 56	1	6.55 B8	1-1-1
0 38 1	1 36 W	45 13	1-2	7.47 A0	1-1-1
0 36 2	0 38 W	28 38	2	5.58 A0	1-1-1 telescope seems to be getting still farther of balance in dec. Usually shifts north by about 2°, then greatly slipping setting.
1 18	1 25 W	27 24	2	7.07 A0	1-1-1
3 2 1	1 56 W	33 02	1	(7.28) A0	1-1-1
3 11 1	1 23 W	31 01	1-2	6.78 B9	1-1-1
7 9 2	2 10 W	17 33	1	6.68 M6	1-1-1 auroral rays still visible behind clouds in N image faint in clouds at 4 45.

finder shortest loss.

	MC	SC	SW	MT	ST
	^s	^s	^s	^s	^m
Aug 23 ^d 10 ^h	-41.0	+8.8	-19.2	-58.0	+0.6

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Date Tues Aug 23-24, 1938 Hel-L. Julian Day[illegible]

11 900
3 172

	MC	SC	SVY	MT	ST
Aug 24 ^d 10 ^h	-42.0	+09.0	-20.0	-60.5	+0.8

Plates for M.

Date Wednesday Aug 24-25, 1938, 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	Hour Angle End
3549	HD 189086	19 53.2	30 30	I-12 $\frac{1}{2}$	Astra II	Set .010	Above Below 14.8 20.8	23 08	00 23	2	
3550	" 207431	21 43.8	43 32	"	"	"	" "	00 26	02 20	3	
	" 215566										
Thurs Aug 25 Hd & M rearranged weights for better balance in dec. I-12 focus was 28.17 Tilt 19.45 Changed to I-25											
3550F	Focus			I-25	Astra II	.010	above 12.0			3	
3550T	sky										
3550T	sky			"	"	"	"			4	

Set pointer at 15.5

Ending Time L.S.T.	Hour Angle. End	Declination	Seeing	Ptg. Mag.	Comp.	REMARKS
						Sky completely cloudy all evening clearing about 22 10 - 22 20 opened up but clouds delayed starting.
2 22 W	30 35	0	6.88	Ao	1-1-1	
2 28 W	43 42	0	7.58	Ao	1-1-1	clouds at 1 35 thick at 1 56 clear at 2 08 clouded over whole sector on this star. mostly thick at 3.30, closed up.
						mcscswmtst 5555m Aug 25 ^d 10 ^h -44.0 +09.8 -21.8 -03.0 +0.9
3 Distinct thin bar						^{200 billion} 3/3 set 1 23.0 set 6 23.2 set 9 23.4 set 23.15 20' ^{good} 23.20'
						105 settings - 1, 0, 1, 2, 4, 4½, 5, 5½ 10.4

Date Thursday Aug. 25-26, 1938 Hd-T Julian Day.

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature <i>above below</i>	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
3551	HD 194012	20 18.2	14 13	I-25	Astra II	010	15.3 21.4	10 45	11 45	1
3552	^{8 Cas} HD 5394	60 50.7	60 "	"	Procyon	"		11 52	12 00	2
2	"	"	"	"	"	"		12 10.5	12 13.5	2
								12 15	12 16	
- 3553	MW 7 (K Cas) HD 2905	0 27.3	62 34	"	Astra II	010		12 22	12 25	3
								12 26	12 32	
- 3554	m w 381 HD 208682	21 52.9	64 52	"	"	"		12 38	01 08	4
	MW 394									
- 3555	HD 217050	22 52.7	48 09	"	"	"	15.7	01 13	02 15	1
					Fri Aug 26	HD				
					changed to I-12					
3555F	Focus			I-12	Astra II	010	13.0			

Clearing 10.15 →

Ending Time EST.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS	
11 45	W 1 ^h 22	14 20	1	6.64 F ₅	333+	
12 2			2	2 Bop	no filter 16	setting 1
12 4			"	"	8.8	" 5
12 6	E 2 ^h 40	"	"	"	16	" 9
12 25		62 34	2	4.2 Boser	9	set 2
12 32	E 2 ^h 00				9	" 7
12 4	N 1 11			5.8 B370	3, 3, 3	
12 11	W 1 25	48 19	2-3	5.2 B370	3, 3,	
Outside the base				10/10	Clouded 1.17 - Completely the battery is so	
Focus 26.17 Tilt 19.45					Stopped before	
					light rain at 201, got up here till 1.17	
					These 2 spectra are partially	
					superimposed - 180	
					mc sc slw mt st 10 5 5 5 5 h h h h h 10 10 10 10 10	
					Aug 26	
					-45.0 +10.1 -23.4 -04.5 +1.1	

Date Friday, Aug 26-27, 1938 M-T Julian Day.

⑤

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Date Saturday, August 27-28, 1938 H-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
3563	HD 199837	20 54.6	+31 15	I-12	Astron II	010	above Belm 17.0 23.0	22 22	23 17	1
3564	200877	21 01.1	+14 56	"	"	"	17.0 23.2	23 20	00 00	2
3565	203551	21 17.8 18.0	+60 15	"	"	"	16.8	00 10	00 47	3
3566	203574	21 18.0	+60 21	"	"	"	17.0	00 45	01 17	4
3567	204889	21 26.5	+61 00	"	"	"	16.9	01 21	02 09	1
3568	206842	21 39.7	58 48	"	"	"	17.0	02 14	02 48	2
3569	221237	23 25.2	58 01	"	"	"	17.0	02 52		
3569	221237	23 25.2	58 01	"	"	"	17.0	03 13	03 57	4
3570	5408	00 50.8	59 50	"	"	"	16.9	04 02	04 40	1
	5459	00 51.8	60 53	"	"	"				

about 65^(?) visitors. H showed M13, β Cyg, NGC 6720 with 74"
 T showed Venus, Jupiter, Saturn with 4".
 180

Reading Time LST.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
22	0 26 W	+31 25	1-2	7.15	B9	1-1-1 Pointer set 16.7. Seeing very variable.
23	1 02 W	+15 06	2	7.04	F5	1-1-1
24	1 29 W	+60 23	2-3	7.16	F5	1-1-1
25	2 03 W	+60 28	3-2	7.24	K0	1-1-1
26	2 47 W	+61 06	2	7.53	F5	1-1-1
27	3 13 W	58 57	2-3	7.28	K2	1-1-1
		58 11	2	7.06	A0	1-1-1 Wrong star
28	2 36 W	58 11	2-1	7.06	A0	1-1-1
29	1 53 W	60 01	2-	5.52	B9	1-1-1 Wrong star. Farmer
				7.40	F5	

Date Sunday Aug 28-29 Y-C-L Julian Day.....

[illegible]

Exposure Time L.T. H ₀	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp	REMARKS
19 2	9 E	43 39	4	7.57	G5 1-1-1	Scale 16.2
4 33 2	52 W	44 55	4	7.5	F0 1-1-1	
12 4	22 W	43 38	4	6.96	A2 1-1-1	
10 45 1	W	46 55	4	6.90	A0 1-1-1	
11 01 2	26 ^m W	27 49	4	6.42	K5 1-1-1	
11 02 1	1 ^m W	42 31	4	7.04	B9 1-1-1	
	0 15 W	15 20	4	6.69	A0 1-1-1	
	0 08 E	32 29	4	6.03	A2 1-1-1	double, took brighter component.
	1 00 W	28 50	4-3	7.56	A2 1-1-1	
	1 02 W	46 36	4-3	7.31	A2 1-1-1	
	0 10 E	4 56	4-3	6.74	F5 1-1-1	
	0 16 E	14 59	4-3	6.17	K5 1-1-1	
	0 42 E	28 25	3	6.99	A0 1-1-1	
					10/10	

These plates are too strong
Exposures could be cut to
80%

Date Monday Aug 29-30, 1938, M-L Julian Day.

[illegible]

Clouds delayed opening. Still light clouds over most of sky when exposure started.

Ending Time L.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.			REMARKS					
							image gone for 15 or 20 minutes					
21 03 30	14 W	30 27	2	6.66	B9	1-1-1	Aug 29	10	-48.5	+10.7	-34.8	-08.8 +01.1 ^m
22 05 00	02 E	15 10	2	7.09	A0	1-2	sky quite hazy, came up thick from N at 9.37 all the end of exposure.					
							remained thick					
							closed down at 23.30					
							Aug 30	10	-48.7 ^s	+11.8 ^s	-41.0 ^s	-10.0 ^s +01.2 ^m

Date Tuesday, Aug 30-31, 1938 14-L Julian Day 214

[illegible]

Date Wed Aug 31 - Sept 1, 1938 44-6 Julian Day.

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
3592	HD 164506	17 56.4	28 45	I-12	Astra II	010	15.0 20.8	8 07	8 20	3
	HD 172167 Vega	18 33.6	38 41	"	"	"	" "	8 25	8 27	1
3593	HD 164506	17 56.4	28 45	"	"	"	14.7 20.8	9 21	10 15	4
3594	" 181144	19 14.2	16 19	"	"	"	14.6 20.8	10 21		2
3594	" 193556	20 15.7	14 16	"	"	"	14.5	11 10	1 56	2
3595	" 194012	20 16.2	14 13	"	"	"	14.4 20.5	12 01	12 51	1
3596	" 193472	20 15.3	13 14	"	"	"	14.4 20.5	12 25	12 51	3
3597	HD 224559 M.W.C. 407	23 53.8	45 52	"	"	"	14.4 20.6	12 47	01 12	4
3598	HD 4180	00 39.2	47 44	"	"	"	14.5 20.6	01 18	01 22	1
3599	HD 2905	00 27.3	62 23	"	"	"	" "	01 29	01 33	2
★ 3600	HD 6343	00 59.4	65 26	"	"	"	" "	01 40	02 20	3
3601	HD 19243	03 00.7	62 00	"	"	"	14.6 20.6	02 28	02 56	1
3602	HD 21650	05 24.6	41 25	"	"	"	14.7 20.7	03 03	03 35	1

Clearing 7.54

Set pointer at 14.8

188

Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
7 20 3 W 42 ^m	28 43	2	7.43 A ₂ 1, 2	at 5- { Thick: Thunderstorm threatening
8 27 W 10 ^m	38 44	2	0.14 A ₀ 3	at 9 about 10 ⁵ exposure
10 5 4 W 2 ^m 38	28 45	3	7.43 A ₂ 1, 1, 1	
16 22	16 22	7.34	F₅ 1,	Clouds very suddenly with dash of rain. Cloud heavily - none to speak of on mirror.
2 00 W	14 23	1-3	7.12 G ₅ 1, 1, 1	
2 22 W	14 21	1-3	6.64 F ₅ 1-1-1	
4 45 W	13 22	1-3	6.10 A ₅ 1-1-1	
0 22 E	46 04	3	6.5 B _{3he} 1-1-1	too strong
0 58 E	47 55	3	4.7 B _{4he} 1 $\frac{1}{2}$ -1 $\frac{1}{2}$	{ Too strong
0 35 E	63 33	3	4.2 B _{5se} 1 $\frac{1}{2}$ -1 $\frac{1}{2}$	
21 E	65 37	3	7.1 B _{5se} 1-1-1	
1 46 E	62 08	2	6.5 B _{2e} 1-1-1	
30 E	41 30	2	7.2 B _{5he} 1-1	clouds at 3.30 thick, at 3.35 felt a few drops of rain on platform, clouds holed at 4.15. cloud up completely.

Date *Thursday September 12, 1938* H-T Julian Day.

12

Trouble with thermostat. Y resoldered needle 190

Needle set 13.2

Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
2 50 W	+43 42	2-1-0	7.21 A2 1-1-1	Sep. 1 10 M.C. S.C. S.W. M.T. S.T. -51.0 +13.2 -43.0 -27.0 +0.4
2 31 W	+32 01	1	7.04 A0 1-1-1	Stopped - reset.
2 31 W	+30 10	1	4.74 F0 3	Setting 3
2 38 W			3	Setting 8
3 07 W	+12 10	1-0	6.88 B8 1-1-1	Seeing very bad at times
3 20 W	+43 10	1	6.40 A5 1-1-1	
3 04 W	+30 59	1-2	7.08 A5 1-1-1	
3 18 W	+29 14	1-2	7.54 B9 1-1-1	
3 39 W	+33 11	2-3	6.75 K2 1-1-1	
3 30 W	+29 43	2	7.37 B9 1-1-1	It
2 37 W	+61 47	2-1	6.78 A2 1-1-1	Haze coming up in SW. Clouds at 320
1 46 W	+17 28	2-1	7.09 F0 1-1-1	Sounded partially. Some haze during air 1/2 of 13
6 36 E	+15 00	2-3	6.22 F0 1-1-1	
				Sep. 2 12 -51.9 +14.0 -42.2 -26.8 +0.2 (cont)

Put in new Cassegrain focusing motor, at present. Sounded as up position minus Cassegrain mirror up. toward end of tube. Play

Date Friday Sept 2-3, 1938 M-T Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature <i>above below</i>	Starting Time E.S.T.	Ending Time E.S.T.	How Angle End
3615	HD. 169169	18 18.3	14 57	I-12	Astra II	.0/0	12.3 18.4	19 50	20 42	1 0 30 W
3616	187613N	19 45.8	44 07	—	—	—	12.3 18.3	20 45	21 55	2 0 00 W
3617	193819	20 17.2	13 16	—	—	—	12.2 18.3	21 58	23 10	3 0 00 W
3618	208835	21 53.9	46 23	—	—	—	12.1 18.3	23 14	23 53	4 0 31 W
3619	209193	21 56.4	30 57	—	—	—	12.2 18.3	24 01	24 41	1 0 20 W
3620	209205	21 56.5	31 03	—	—	—	12.1 18.3	24 42	1 28	2 0 00 W
3621	215242	22 38.7	46 38	—	—	—	12.1 18.3	1 32	2 00	3 0 00 W
3622	224801	23 55.7	44 42	—	—	—	12.2 18.2	2 04	2 17	4 0 00 W
3623	3 00	44 40	—	—	—	—	12.2 18.2	2 22	2 42	1 0 00 W
3624	12A3	00 11 6	13 22	—	—	—	12.2 18.2	2 46	4 24	2 0 00 W
3625	11 188	01 44.9	46 58	—	—	—	12.0 18.1	4 22	4 50	3 0 00 W
Sat Sept 3-4, 1938 Hcl-T										
about 100 visitors showed moon, ring neb										
Partly cloudy throughout. Very cloudy at 10.00										
Ran Cas focus up $1\frac{3}{4}$ min										

Date Saturday Sept 3-4 Hd-T Julian Day 174

⑤

[illegible]

194

Date Monday Sept 5-6, 1938, M-L Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature <i>above below</i>	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
⁴⁰ 3649	HD 169247	18 18.7	14 39	I-12	Astron II	.010	10.5 16.6	19 33	20 43	2
⁴¹ 3650	191671	20 06.0	27 58	—	—	—	10.5 16.6	20 47	22 17	3
⁴² 3651	208174	21 49.4	27 53	—	—	—	10.5 16.6	22 20	23 10	4
⁴³ 3652	209484	21 58.7	29 44	—	—	—	10.3 16.6	23 12	00 02	1
⁴⁴ 3653	210661	22 06.8	28 45	"	"	"	10.4 16.5	00 06	01 26	2
⁴⁵ 3654	2358	00 22.3	15 29	"	"	"	* 9.6 15.5	01 30	02 15	3
⁴⁶ 3655	10407	01 36.4	29 01	"	"	"	9.8 16.0	02 19	03 34	4
⁴⁷ 3656	20458	03 12.4	13 29	"	"	"	9.5 15.3	03 44	04 57	1
Tues Sept 6-7 Hd-L Rain										

⑤

Date Wednesday, Sept. 7-8, 1938 H, L Julian Day.

Hour Angle
End

Pointer set at 11.25

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
						clouds breaking up at 23.10 - mostly clear at 23.45. started to open at 23.50.
01	1 ⁵² W	27 30	0-1	7.43	Ko 1-1-1	seeing variable
02	1 ²⁸ W	43 49	0-1	7.42	AO 1-1-1	
03	1 ⁰³ W	61 13	0-1	6.38	F8 1-1-1	
04	1 ³⁴ W	16 44	1	7.17	F5 1-1-1	
05	1 ²² W	29 06	0-1	7.05	B8 1-1-1	
						Sep. 8 15 MC SC SW -56.8 +15.8 -12.2 M.T. S.T. +29.0 +1.6

Date Thurs Sept 8-9 Hd - T

Julian Day.

[illegible]

Date Friday, September 9-10, 1938 H-T Julian Day.

[illegible]

Pointer set 11.1

Ending Time L.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
15	2 ⁰⁹ W	+43 19	2	7.14	K2 1-1-1	Thick in early evening. Still hazy.
2	2 ¹⁵ W	+30 32	1	7.10	F2 1-1-1	Very hazy.
3	3 ⁰⁴ W	+12 10	1-2	6.88	B8 1-1-1	Light haze.
15	1 ⁵⁰ W	+74 23	2-3	7.47	A3 1-1-1	Some light clouds. Mid-exposure temps 10.0, 16.0
2	2 ³¹ W	+31 23	2-3	7.15	B9 1-1-1	
3	2 ⁵¹ W	60 24	2-3	7.16	F5 1-1-1	Some light haze.
0	3 ⁰⁷ W	31 08	2	7.32	F0 1-1-1	" " "
7	2 ⁵⁴ W	46 12	2	6.68	B9 1-1-1	" " "
1		31 49	2-1	7.99	F5 1-	Setting 45. Haze thickens more general at 3.15, clearing
1	57 W	61 14	2	6.38	F2 1-1-1	" 9. exposure for 2666 too long, change to 6.210
2	33 W	16 43	2-1	7.17	F5 1-1-1	Cleared some.
02	30 W	49 46	3	6.35	G1 1-1-1	
Focus 26.12 tilt 19.48				10/10		
						MC SC SW M.T. ST
Sep 10 10 - 57.8 + 15.6 - 36.4 + 28.6 + 1.3						^m
Sep. 12 10 - 58.9 + 15.3 - 44.7 + 25.2 + 1.5						^w

Date Monday, Sept 12-13, 1938. Hd-L Julian Day.

[illegible]

Pointer set at 14.2

Ending Time
LST.Hour Angle
End

Declination

Seeing

Ptg. Mag.

REMARKS

Cloud breaking away at 11.45
mostly clear at 12.15 started to open
at 12.35.

*Vsa plates from box rec'd May 11/25

0 39 W 46 04 2-3 6.5 B₃ne 1-1-1

2 04 W 55 12 2-3 7.6 B₁e 1-1-1

0 55 N 43 27 2-3 7.9 B₂ne 1-1-1

Sep. 13 10 M.R. S.E. S.W. M.T. S.T.
-59.9 +14.9 -48.3 +23.2 +01.0^m

Date Tuesday, September 13-14, 1938, H-L Julian Day.....

[illegible]

Ending Time L.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
				6.88	B8	Light clouds at first. Could not get arc to star.
1 10 W	+12 10	1	6.88	B8	1-1-1	Setting 2. Light haze.
1 46 W	+16 40	1	7.38	K0	1-1-1	
2 01 W	+43 10	2	6.40	A5	1-1-1	Faint aurora (showing despite clouds' brightness)
2 06 W	+60 49	2-3	6.99	B9	1-1-1	
	+74 23	2-3	7.47	A3	1-	Clouded out 22 ²⁷ thinning 23 ⁰⁵ but attempt to reap fire to finish this star
2 57 W	+31 23	2-3	7.15	B9	1-1-1	Setting 8. Light clouds during most of day.
16 W	+30 14	3	6.52	A5	1-1-1	haze
	+31 49	3	7.44	F5	1-1-	Light clouds at 2 ⁰⁵ thick at 3 ¹⁵ sky mostly thick.
						M.C. S.C. S.W. M.T. S.T. Sep 14 -60.9^s +44.5^s -50.9^s +21.1^m +1.1^m Sep 15 -61.3^s +14.3^s -53.4^s +19.7^s +1.1^m

Date Thurs Sept 15-16 Y-T Julian Day 171

[illegible]

Date Friday Sept 16-17, 1938, M-T Julian Day.

[illegible]

Set pointer 11.25

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
1901	1 00 W	14 56	2	6.43 B9	1-1-1	Some clouds after sunset - cleared later, light clouds occasionally. Image gone at end of exposure.
2102	46 W	30 01	2	6.34 B9	1-1-1	image faint due to clouds, thick at 20.40, image gone. take 20.40 as end of exposure.
						remained thick
						closed dome 22.00
						Gave up when still thick at 1.00

Date. *Saturday, September 17-18, 1938* H-T Julian Day.

[illegible]

Pointer 10.8

214

Cloudy early evening, clearing around 9⁰⁰
8 visitors. Observed Jupiter, 3 eggs.

Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS	
2 05 W	+31 03	2	6.66	B8	1-1-1	
1 56 W	+30 22	2-3	7.53	G5	1-1-1	Clouds over most of sky 22 ⁵⁰ -23 ⁰⁰ . Hazy + broke clouds -23 ¹⁵
3 00 W	+15 24	2-3	7.52	K5	1-1-1	Clouds 0.15, moon cleared, but still hazy.
3 06 W	+27 29	2.	7.43	K0	1-1-1	Clouded suddenly 0 ⁵⁵ . Partly cloudy till 1 ¹⁵
2 56 W	+23 49	2-3	7.99	F5	1-1-1	Clouds at 2 ⁰⁰ partly cloudy throughout exp. Call end exp 3 30. Closed up re clouds dampness.
						M.C. SC S.W. M.T._s S.T._m Sep. 19 10 -68.0 +12.2 -59.0 +16.0 +1.3

Date Monday Sept. 19-20, 1938 M-L Julian Day

[illegible]

set pointer to 10.95

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
7 17 55	0 36 W	45 46	2-1	7.21 A0	1-1-1 Dec. quick motion fine blue, no apparent reason
8 21 02	1 37 W	15 41	1	7.13 B9	1-1-1 clouds obscured image 19.00-19.20 quite hazy near horizon
8 22 03	1 19 W	15 10	1	7.09 A0	1-1-1
8 22 42	1 17 W	44 02	1-2	6.63 A2	1-1-1
8 23 15	1 28 W	44 27	1	7.02 B9	1-1-1
8 23 40	1 20 W	29 43	0	7.23 B9	1-1-1
8 24 13	1 54 W	13 35	0-1	7.58 A3	1-1-1
8 24 34	0 44 W	43 49	0-1-2	7.25 Aop	1-1-1
8 25 11	1 42 W	59 51	1-2	8.76 K0 7.34 B5	1-1-1
Had a little trouble in identifying star, then had more trouble trying to locate it in the telescope field.					
clouds filling in at 05.16.					
field for 3693					
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Date Thursday - Sept 22-23, 1938, M-T Julian Day.....:

7

set pointer to 8.15.

Reading Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
						MC SE SW M.T. S.T.
						Sep 22 10 -1 09.8 +12.6 -75.9 +13.0 +1.2
						Cloudy for first part of night
23 52 2	1 39 W	44 02	1	6.63	A2	1-1-1
00 2 3	0 36 W	43 24	1-2	6.82	A0	1-1-1
	1 25 W	13 35	2-1	7.58	A3	1-1-1
	1 02 W	28 08	2-1	7.31	A0	1-1-1
	2 05 W	43 23	2 1	7.40	A0	1-1-1
05 3	1 25 W	29 49	2	7.51	A0	1-1-1
06 4	0 59 W	18 03	2	6.74	A0	1-1-1
					10/10	
						MC SE SW M.T. S.T.
						Sep 23 13 -1^m 10.6 +12.6 -76.7 +12.0 +1.4^m

dec p.m. fine blow again, no apparent reason.
reset pointer 8.25.

Reset pointer 8.60

Apparent large temp. change due to joining of broken ^{column} ~~measuring~~

Date Friday September 23-24, 1938 H-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.		Exposure End
3701	HD 183794	19 26.1	-02 19	I-12	Acta II	010	16.0 22.1	18 56	19 46	1	
3702	199102	20 49.8	+29 07	"	"	"	16.1 22.1	19 51	21 26	2	
3703	200877	21 01.1	+14 56	"	"	"	16.3 22.3	21 09	21 49	4	
3704	203551	21 17.8	+60 15	"	"	"	16.3 22.2	21 57	22 37	3	
3705	204889	21 26.5	+61 00	"	"	"	16.2 22.3	22 41	22 41		
3706	209517	21 58.9	+29 33	"	"	"	16.3 22.3	23 45	20 48		
	210461	22 05.5	-14 07	"	"	"	16.2 22.3	00 55			
3707	212742	23 05.7	17 03	"	E-40	"	16.2 22.3	01 17	02 01	1	
3708	1606	00 15.2	30 23	"	"	"	16.2 22.4	02 05	02 39		
3709	35239	05 18.2	31 03	"	"	"	16.5 22.6	02 17	03 41	1	
3710	23038	03 43.1	49 40	"	"	"	16.4 22.5	02 05	02 49		
3711	41031	06 20.9	15 58	"	Acta I	"	16.4 22.4	04 32	04 32		
3712	63630	07 49.3	46 12	"	"	"	16.4 22.6	-05 08	05 36		

Date Sat Sept 24-25, 1938 41-7 Julian Day.....

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature <i>above below</i>	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
3713	HD 180451	11.5	15 59	I-12	Astra II	010	11.2 17.3	6 48	7 40	1
3714	" 189 706	19 56.3	29 32	"	"	"	11.2	9 52	10 56	2
3715	" 189 213 MW 402	19 53.8	28 36	"	"	"	11.2	11 02	11 52	3
- 3716	HD 223501 MW 13	23 45.0	61 39	"	"	"	11.0 17.1	00 02	01 30	-
- 3717	HD 9105 MW 23	1 24.6	62 51	"	"	"	11.1 17.1	01 35	02 11	1
- 3718	HD 12302 MW 61	1 55.6	59 12	"	"	"	11.1 17.2	02 18	03 30	2
- 3719	HD 19243 MW 63	3 01.7	62 00	"	"	"	11.0 17.1	03 34	03 48	3
- 3720	HD 20017 MW 107	3 07.9	48 19	"	"	"	11.0 17.1	03 53	04 32	4
- 3721	HD 34921 AHD 34921	5 15.8	37 35	"	"	"	11.1 17.0	04 41	04 51	5

222

Printer 12.0

new plates

223

Date Sunday Sept 25-26 Y-G-Tu 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
3722	HD 176626	18 56.1	43 35	I-12	Astra II	010	+11.0	6 46	7 32	2	34 ^m W
3723	HD 187237	19 43.9	27 36	"	"	"	+11.1	7 38	8 28	3	43 ^m W
3724	HD 191918	20 07.2	32 00	"	"	"	+11.0	8 32	9 20	4	11 ^m W
3725	HD 202351	21 10.1	16 04	"	"	"	11.0	9 25	10 05	1	53 ^m W
3726	HD 210387	22 05.0	44 22	"	"	"	11.0	10 10	10 42	2	35 ^m W
3727	HD 210405	22 05.1	44 21	"	"	"	11.0	10 44	11 20	3	43 W
3728	HD 218538	23 03.7	28 39	"	"	"	11.0	11 25	12 45	4	46 W
3729	HD 1375	00 12.8	12 13	"	"	"	11.0 17.0	12 54	01 54	1	40 W
3730	HD 13596	02 07.6	14 48	"	"	"	11.0 17.0	01 58	02 20	2	51 W
3731	HD 21062	03 18.8	28 18	"	"	"	11.0 17.0	02 25	03 15	3	55 E
3732	HD 22124	03 28.8	31 41	"	"	"	11.0 17.0	03 19	04 04	4	34 W
3733	HD 31069	04 47.7	43 54	"	"	"	11.0 17.0	04 08	04 25	1	23 E
3734	HD 29487	04 33.5	43 55	"	"	"	11.0 17.0	04 32	05 22	2	47 W

Date. Monday, Sept 26-27, 1938, M-L Julian Day 2454980.5

[illegible]

227

Date Tuesday September 27-28, 1938 17-6 Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
- 3740	HD 183794	19 26.1	-02 19	I-12	Astra II	set 010	above filter 12.5 18.4	18 44	20 14	4
3741	199140	20 50.1	+28 08	"	"	"	12.5 18.5	20 18	20 49	1
	216803	22 50.5	+32 06							
3742	206280	21 36.0	+43 59	"	"	"	12.5 18.5	21 14	21 49	2
3743	209517	21 58.9	+29 43	"	"	"	12.4 18.5	21 53	23 03	3
3744	210594	22 06.3	+30 04	"	"	"	12.5 18.3	23 06	23 36	1
3745	211432	22 11.9	+27 18	"	"	"	12.4 18.5	23 38	00 20	1
3746	210461	22 05.5	+14 07	"	"	"	12.4 18.5	00 25	01 15	2
3747	218792	23 05.7	+17 03	"	"	"	12.4 18.5	01 09	01 39	3
3748	16220	02 31.1	+32 27	"	"	"	12.4 18.5	01 43	02 15	4
3749	17818	02 46.5	+48 09	"	"	"	12.5 18.5	02 25	03 15	1
3750	20536	03 13.1	+61 38	"	"	"	12.6 18.6	03 21	04 01	2
3751	23538	03 43.1	+44 40	"	"	"	12.5 18.5	04 06	04 31	3
3752	26703	04 08.3	+12 30	"	"	"	12.5 18.6	04 36	05 26	4

(13)

Aurora becomes more brilliant 19²⁰-20⁰⁰ at 19⁵⁰ bright band, great wash, E-W, alt of light point 20° above S horizon. Band 5° wide. Later widened & broke up. about 19⁵⁰ patches intensely red in E. & in N.

Aurora general all evening.

[Star placed 10⁰⁰ to ask about aurora]

Pointer set at 13.0

228

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
						<i>mirror very astigmatic at first.</i>
2	0 53 W	-02 14	0-1	6.8-7.5	B8 1-1-1	<i>Light haze. Star seems very faint. Brilliant aurora 19²⁰-</i>
	0 04 W	+28 17	1	6.27	B3 1-1-1	
				7.5	K5	<i>Unable to locate this - lower finder cut off, upper too high.</i>
	0 19 W	+44 08	1-2	6.68	B9 1-1-1	
	1 10 W	+29 43	1-2	7.37	B9 1-1-1	
	1 36 W	+30 14		6.52	A5 1-1-1	
	2 15 W	+27 30	0-1	7.43	K0 1-1-1	
	3 05 W	+14 20	0-1-2	7.41	K0 1-1-1	
	2 39 W	+17 15	0-1-2	7.12	K5 1-1-1	
	0 07 E	+32 36	0-1	6.71	F5 1-1-1	
	0 34 W	+48 18	0-1	7.51	K0 1-1-1	<i>Supplementary list.</i>
	0 53 W	+61 46	1	6.60	B8 1-1-1	
	0 54 W	+44 46	1	6.35	G0 1-1-1	
	1 25 W	+12 36	1-2	7.49	K0 1-1-1	<i>Sup list</i>
						MC SC SW MT. S.T. Sep 28 12 -1^m 14.8 +12.3 -09.1 +05.8 +0.9^m

Date Wed Sept 28-29, 1938 Hel-L Julian Day.

[illegible]

		MC	S.C.	S.W.	M.T.	S.T.
Sep 29	12	-1 27.9	+12.4	-06.8	+02.2 ³	+1.0 ^m

Date Thursday, September 29-30, 1938 H-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	Dist.
- 3761	HD 183794	19 26.1	-02 14	I-12	Astron II	set 010	above below 9.7 15.8	18 42	20 11	1	1.51
3762	199140	20 50.1	+28 08	"	"	"	9.7 15.9	20 15	20 10	2	1.51
3763	204889	21 26.5	+61 00	"	"	"	9.6 15.8	20 46	21 41	3	1.51
3764	209517	21 58.9	+29 33	"	"	"	9.8 15.8	21 47	22 47	4	1.51
3765	209693	22 00.2	+32 27	"	"	"	9.7 15.8	23 00	23 35	1	1.51
3766	216511	22 48.4	+46 01	"	"	"	9.6	23 43	00 15	2	1.51
3767	217491	22 56.0	44 50	"	"	"	9.6 15.7	00 18	00 2	2	1.51
3768	217754	22 57.8	31 14	"	"	"	9.7 15.7	00 44	01 14	4	1.51
3769	5526	00 52.0	45 18	"	"	"	9.5 15.7	01 17	01 53	1	1.51
3770	11884	01 51.7	46 36	"	"	"	9.6 15.8	01 56	02 44	2	1.51
3771	18155	02 49.8	46 45	"	"	"	9.6 15.8	02 48	03 32	3	1.51
3772	23838	03 43.1	44 10	"	"	"	9.8 15.7	03 36	04 18	4	1.51
	35076	05 17.0	28 51				9.6 15.6	04 27		1	

Pointer set at 10.9

Ending Time
L.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
0 59W	-02 14	2-1	6.8 ^u B9	1-1-1 Image very unsteady.
	+28 16	1	6.27 B3	1-1-1
0 30W	+61 08	2-3	7.53 F5	1-1-1
1 01W	+29 42	2	7.37 B9	1-1-1
1 47W	+32 37	2	7.17 G5	1-1-1
1 41W	+46 13	2	6.68 B9	1-1-1
1 58W	45 01	2	6.50 A2	1-1-1
2 30W	31 26	2-1	6.74 F0	1-1-1
1 15W	45 30	1-2-3	7.24 K0	1-1-1 Seeing variable Serp list
1 06W	46 47	2-3	7.53 K0	1-1-1 Serp list
0 57W	46 54	2	7.13 K0	1-1-1 haze Serp list
0 49W	49 46	2	6.35 G0	1-1-1 "
	28 53	2	6.37 B9	1-1-1 ^{Load} Settling delayed by haze image very faint & fuzzy
Sep 30 12 M.C. -1.16.3 S.C. +12.0 S.W. -03.5 ^{Load} ^{5.6} M.T. S.T. +02.0 +0.6 Resist.				

Date Fri Sept 30 - Oct 1, 1938 Mol-T Julian Day

[illegible]

Date Saturday Oct 1-2, 1938, M-T, Julian Day

[illegible]

Pointer at 28.73 (second plug out)

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
						About 330 visitors - showed Jupiter with 74", Moon and Saturn with small instruments
12 00	09	28 56	2	7.50	A2 1-1-1	
12 42	42	33 03	2-1	7.28	A0 1-1-1	Neocompment.
1 20	20	47 24	4	7.03	A2 1-1-1	
1 50	50	44 29	4-3	7.43	B8 1-1-1	
2 40	40	30 08	4-3	7.41	A0 1-1-1	
3 08	08	29 28	4-3	7.43	B9 1-1-1	
3 47	47	32 02	4-3	7.56	A2 1-1-1	
4 44	44	59 49	4	7.34	B3 1-1-1	
5 49	49	16 22	2-3	7.50	B9 1-1-1	

Date Sunday Oct 2-3 Y-6- Julian Day

[illegible]

Date Monday, Oct 3-4, 1938, M-L Julian Day.

(13)

[illegible]

241

Date Tuesday, October 4-5, 1938, H-L

Julian Day.

[illegible]

243

Date Thursday, Oct 6-7, 1938, M-T Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature <i>Above Below</i>	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
3811	H.D. 190047	19 58.0	30 50	I-12	Astron II	1010	4.1 10.4	18 27	19 27	4
3812	191879	20 7.0	14 21	—	—	—	4.2 10.4	19 30	21 04	2
3813	207431	21 43.8	43 32	—	—	—	4.2 10.4	21 07	22 47	3
3814	215242	22 38.7	46 38	—	—	—	4.1 10.2	22 51	23 23	4
3815	218428	23 2.9	29 31	—	—	—	4.1 10.3	23 26	00 26	1
3816	7157	01 06.8	61 10	—	—	—	4.1 10.2	00 33	01 53	2
3817	10773	01 40.5	43 13	—	—	—	4.4 10.3	00 58	01 10	3
- 3818	* 16594	02 34.5	31 53	—	—	—	4.2 10.4	02 22	04 04	4
3819	35173	05 17.8	15 55	—	—	—	4.1 10.3	04 05	04 55	1
3820	35522	05 20.2	15 23	—	—	—	4.0 10.3	04 58	05 36	2
* Wrong star taken, - not identified										

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Pointer at 28.72.

Ending Time L.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
19 27.4	0 10W	30 57	0	6.55	B8	1-1-1
21 02	1 39W	14 28	1-0	7.48	A0	1-1-1
22 07.3	1 45W	43 42	1	7.58	A0	1-1-1
23 13-	1 26W	46 51	1	6.40	B9	1-1-1
0 00	2 05W	29 44	1	7.23	B9	1-1-1
0 20	0 27W	61 21	2-3	6.27	B9	1-1-1
0 40	1 17W	43 22	2-1-0	7.40	A0	1-1-1
0 50	2 08W	32 03	1-0	7.56	A2	1-1-1
1 00	0 19W	15 59	1	6.39	B8	1-1-1
1 10	1 13W	15 24	1	7.02	B9	1-1-1
						Horizontal line 1-1-1
						M.C. S.C. SW M.T. S.T.
Oct. 7 12						-1.19.6 +10.3 -17.1 -00.2 +0.6
						Adv.

Date Friday, October 7-8, 1938 H-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
- 3821	HD 206155 HP 216956	21 35.1	+08 44	I-12	Astria II	Set 010	above labor 6.5 12.6	18 27	19 57	23	Y
- 3822	✓ Poo A " HD 216803	22 52	-30 09	"	"	"		20 13	20 23	4	453-
- 3823	HD 216083	22 50.8	-32 06	"	"	"	6.5 12.7	20 34	22 44	1	34-
3824	222387	23 35.0	+73 25	"	"	"	6.6 12.6	23 05	23 30	4	
3825	224098	23 50.0	+73 51	"	"	"	6.6 12.7	23 33	00 05	1	
3826	1606	00 15.2	30 23	"	"	"	6.6 12.6	00 10	00 30	2	4100
3827	448	00 03.9	17 40	-	-	-	6.5 12.6	00 33	01 00	3	2190
3828	5343	00 50.2	57 26	-	-	-	6.4 12.6	01 09	02 55	4	2700
3829	16700	00 36.3	47 51	-	-	-	6.9 12.5	02 58	04 04	1	
	28497	04 24.1	27 55	-	-	-	6.9 12.4	04 03			

Small Finder
Facing North. + Up
8



RA.
Conjugate
star →

Dec.
Clockwise
move star up ↑

Date Sat Oct 8-9, 1938 Hd-T Julian Day

[illegible]

Date Sunday Oct 9-10 Y-6-L Julian Day

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Date Monday, Oct 10-11, 1938 M-L Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature <i>Below</i>	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Do
3840	HD. 178568	19 4.0	14 17	I-12	<i>astrat II</i>	.010	9.3 15.5	18 22	18 46	2	37 W 14
3841	193349	20 14.7	14 04	—	—	—		18 30	19 16	3	02 E 14
3842	191671	20 6.0	27 58	—	—	—	9.5 15.6	19 20	20 18	4	09 W 28
3843	202644	21 12.1	13 32	—	—	—	9.5 15.6	20 21	21 17	1	02 W 13
3844	209484	21 58.7	29 33 ⁴⁴	—	—	—	9.4 15.4	21 20	22 00	2	57 W 29
3845	208174	21 49.4	27 53	—	—	—	9.4 15.4	22 03	22 33	3	41 W 28
3846	210646	22 6.7	27 14	—	—	—	9.4 15.3	22 35	23 21	4	12 W 27
3847	224801	23 55.7	44 42	—	—	—	9.4 15.2	23 24	23 46	1	47 W 44
3848	1243	0 11.6	13 22	—	—	—	9.3 15.4	23 48	00 44	2	13 W 13
3849	11188	01 4.9	46 58	"	"	"	9.3 15.4	00 45	01 41	3	57 W 13
3850	16245	02 31.3	29 59	"	"	"	9.3 15.4	01 46	02 46	4	5 W 5
3851	21611	03 24.2	29 42	"	"	"	9.3 16.4	02 52	04 00	1	32 W 2
3852	35036	05 16.7	16 01	"	"	"	9.3 15.4	04 05	05 05	2	10 W 10

(13)

Pointer at 10.6

Ending Time L.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
18 4 2	0 38 W	14 20	4	6.72 B9 1-1-1	haze near horizon.
19 16 3	0 02 E	14 10	4	6.81 A0 1-2	Right star is E star of wide pair, they first looked brighter than companion then fainter then brighter again. 2 nd N component.
20 13 -	1 09 W	28 05	4-3	7.5 B5 1-1-1	
21 17 1	1 02 W	13 41	4	7.37 B8 1-1-1	
22 00 2	0 58 W	29 53	4-3	6.99 B9 1-1-1	
22 33 2	1 41 W	28 02	3	6.77 A2 1-1-1	
23 21 -	2 12 W	27 26	3-2	7.07 A0 1-1-1	
23 46 -	0 47 W	44 55	3	6.25 A0p 1-1-1	
	1 34 W	13 35	3	7.58 A3 1-1-1	
	0 53 W	47 07	3	7.09 B8 1-1-1	
	1 12 W	30 07	1-2-3	7.41 A0 1-1-1	seeing variable!
	1 33 W	29 44	2-3	7.51 A0 1-1-1	
		16 03	3	7.38 A0 1-2	
	Plate 3852 is left in holder and numbered as box is full.				light clouds appearing at 4.20. rapidly filling in, thick at 4.35
					MC SC SW HT ST
					Oct. 11 12 -1 21.1 +09.5 -25.9 -03.6 +0.3

Sight haze in sky during all of the night

Date Tuesday, October 11-12, 1938 H-L Julian Day.[illegible]

Date Wed Oct 12-13, 1938 Hd-L Julian Day

[illegible]

Date Thurs Oct 13-14, 1938 Hd-T Julian Day.

Hour	Angle	End	Dev
1	43	4	
2	23	10	
3	35	0	
4	5	99	
5	26	4	
6	5	1	

Pointer at 13.07

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
1 31	1 05 W	30 28	2	6.66 B9	1-1-1	
2 31	1 58 W	44 14	2-1	7.7 B8	1-1-1	light clouds coming up from SW at 19.50. did not interfere with exposure.
2 2 3	2 19 W	15 52	1-0	6.68 B9	1-1-1	
22 32 +	0 49 W	30 45	2-1	6.52 A0	1-1-1	discovered slide not drawn, started exposure again.
2 34	2 14 W	31 08	2-1	7.34 A2	1-1-1	
3 1	1 47 W	29 11	2-1	7.44 A2	1-1-1	Haze, clouds.
2	2 24 W	43 49	2-1	7.25 A0p	1-1-1	Set at first in wrong star haze at times.
1	07 W	16 04	2	7.38 A0	1-1-1	Thick fog almost done towards end of shutter operation.
					10-10	
						MC SC SW MT ST
						Oct 15 10 -1.233 +08.3 -36.7 -10.5 +0.6

Date. Saturday, October 15-16, 1938 H-B-T Julian Day. 1

[illegible]

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Pointer set 12.7

[illegible]

1938

Date Sunday Oct 16-17 Y-E-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	Do
3885	HD 176053	18 53.3	31 52	I-12	astral II	010	+12.9	6 15 PM	6 55	3	43° W
3886	HD 191918	20 07.2	32 00	"	"	"	+13.0	6 59	7 39	4	52° W 3
3887	HD 202314	21 09.9	29 29	"	"	"	+13.0	7 43	8 13	1	25° W 2
3888	HD 209469	21 58.6	42 20	"	"	"	+13.0	8 17	8 47	2	9° W 4
3889	HD 216608	22 49.2	44 13	"	E 33	"	+12.9	8 50	9 14	1	15° E
3890	HD 218395	23 02.6	32 18	"	Astral 4	"	12.8	9 18	9 34	3	8° E
3891	HD 224720	23 55.1	46 23	"	"	"	12.9	9 38	10 22	4	15° E
3892	HD 1826	00 17.6	28 55	"	"	"	12.8	10 26	11 00	1	3°
3893	HD 3291	00 30.9	44 06	"	"	"	12.8	11 04	11 50	2	40° N
3894	HD 10588	01 38.2	31 43	"	"	"	12.8 18.9	11 54	00 59	5	1°
3895	HD 13201	02 03.9	16 46	"	"	"	12.8 18.8	00 33	00 59	4	16°
3896	HD 15365	02 23.3	45 34	"	"	"	12.8 18.8	01 06	01 46	1	1° W 4
3897	HD 21051	03 18.7	12 17	"	"	"	12.8 18.8	01 52	02 24	2	1° W 4
3898	HD 22124	03 28.8	31 41	"	"	"	12.7 18.8	02 29	03 00	3	5° W 3
3899	HD 25447	04 24.1	27 55	"	"	"	12.8 18.8	03 05	03 51	4	1° W 4
★ 3900	HD 37574	05 34.4	32 51	"	"	"	12.8 18.8	03 54	04 41	1	8° W 3

Ending Time L.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp	REMARKS
6 15 2	1 ^h 23 ^m W	44 08	4	7.18	A3	1-1-1 } good seeing but clouds.
7 31 4	52 ^m W	32 06	4-3	7.07	A0	1-1-1 }
8 3 1	25 ^m W	29 38	4	7.25	K0	1-1-1 }
8 37 2	9 ^m W	42 31	5-	7.04	B9	1-1-1 }
9 14 1	15 E	44 25	5-	5.62	A0	3-3-3 }
9 34 3	8 ^m E	32 29	4	6.03	A2	1-2 }
10 4	15 ^m E	46 36	5-	7.31	A2	1-1-1 }
10 1	3 ^m W	29 05	4	6.97	A3	1-1-1 }
10 2	0 40 W	44 16	4	7.28	B3	1-1-1
10 3	0 10 W	31 52	4	7.20	B5	1-1-1
10 4	0 16 W	16 56	3	6.85	F5	1-1-1
10 5	0 44 W	45 45	3-4	7.55	G5	1-1-1
10 6	0 26 W	12 25	4	7.00	G5	1-1-1
10 7	0 52 W	31 49	3	6.90	F0	1-1-1
10 8	0 48 W	28 00	3-2	7.42	G5	1-1-1
10 9	0 28 W	32 51	2	7.30	F8	1-1-1

haze rising in S.W. after beginning of exposure
 Sup. list
 haze clearing with rising wind, image unsteady

Sup. list

Sup. list.

Sup. list

Sup. list

Date Sunday Oct 16-17 Y-G-L Julian Day

[illegible]

[illegible]

Date Monday, Oct 17-18, 1938, M-L Julian Day.

5)

Date Tuesday, October 18-19, 1938, H-L Julian Day 2454781.5

[illegible]

Pointer set 11.7

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
4				6.8 r B9	Sense fog came up just as exposure started ($18^{\circ 05'}$) Closed shutters. Fog thinning out $10^{\circ 00'} - 10^{\circ 45'}$. Some haze opened up $11^{\circ 00'}$. Sense fog almost at once. Closed up. Put on heat. (Everything dry inside dome).
					Oct. 19 12 MC SC SW M.T.s ST -126.1 +07.5 -47.3 -17.0 +0.8

Date Wed Oct 19-20, 1938. Hd-L Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature <i>above below</i>	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
3911	MWC 347 HD 195592	20 27.2	43 59	T-12	Artia II	010	9.3 15.7	8 32	10 00	1
3912	HD 1826	00 17.6	28 55	"	"	"	9.3	10 05	10 51	2
3913	" 9312	01 26.6	76 28	"	"	"	9.3 15.2	10 56	01 26	3
3914	" 22124	03 28.8	31 41	"	"	"	9.2 15.2	01 30	02 30	4
3915	" 35533	05 20.3	15 35	"	"	"	9.2 15.3	02 37	03 55	1
3916	" 43931	06 13.8	13 29	"	"	"	9.2 15.3	04 08	05 40	3
Thurs Oct 20-21 Cloudy with rain in evening. Clearing about 11⁰⁰. Clouds on also plain at midnight but clouds coming in NW side of ... clouds at 2:30, ... sky filled in before 4:30 started.										
Fri Oct 21-22				Hd-T	Rain					

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Clouds and rain all day.
 Clearing at 7.00 + again at 8.00.
 Pointer at 10.5

Ending Time EST.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS																					
10 01	W 3 ^h 06	44 05	1	7.2	Bise 1,1,1	Clouds and haze																					
10 51 2	W 06 ^m	29 05	1	6.97	A3 1,1,1	haze for Y																					
0 1 3	1 ^{3R} W	16 38	1	7.59	G5 1,1-1	thick from 11.20-12.00 clearing partially; haze.																					
0 1 4	0 ³⁴ W	31 48	1-0	6.90	F0 1-1-1	for Dr. Young.																					
0 1 5	0 ⁰⁸ W	15 37	1-0	7.02	^{A0} B9 1-1-1																						
0 1 6	1 ⁰⁸ W	13 27	1-0	7.38	F5 1-1-1	Double, took brighter and preceding comp.																					
MC SC SW MT ST <table> <tr> <td>Oct 20</td><td>12</td><td>-1^m 26.7</td><td>+07.5</td><td>-50.5</td><td>-18.7</td><td>+0.9^m</td></tr> <tr> <td>Oct 21</td><td>12</td><td>-1 27.7</td><td>+07.0</td><td>-49.0</td><td>-20.3</td><td>+0.9</td></tr> <tr> <td>Oct 22</td><td>17</td><td>-1 28.4</td><td>+06.7</td><td>-51.1</td><td>-22.0</td><td>+0.2^m ext.</td></tr> </table>							Oct 20	12	-1 ^m 26.7	+07.5	-50.5	-18.7	+0.9 ^m	Oct 21	12	-1 27.7	+07.0	-49.0	-20.3	+0.9	Oct 22	17	-1 28.4	+06.7	-51.1	-22.0	+0.2 ^m ext.
Oct 20	12	-1 ^m 26.7	+07.5	-50.5	-18.7	+0.9 ^m																					
Oct 21	12	-1 27.7	+07.0	-49.0	-20.3	+0.9																					
Oct 22	17	-1 28.4	+06.7	-51.1	-22.0	+0.2 ^m ext.																					
immediately	Thick at 11 ⁵⁰																										

Date Saturday, Oct 22-23, 1938, M-T Julian Day.

cloudy. cleared partially about 8.30 pm
but clouded over soon.

245

Date Tuesday, October 25-26, 1938 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
3920	HD 172187 HD 216956	18 33.7	+43 08	I-12	Astria II	set 010	above Belan 4.0 10.2	59 17	24 18	4
- 3921	x Per A HD 216953	22 52.1	-30 09	"	"	010		48 18	53 18	1
- 3922	HD 216953	22 50.8	-32 06	"	"	010M	4.1 10.3	03 19	33 21	2
3923	1826	00 17.6	+28 55	"	"	010	4.0 10.2	46 21	31 22	3
3924	9312	01 26.5	+16 28	"	"	"	4.0 10.3	35 22	30 23	4
3925	16111	02 30.2	+28 58	"	"	"	4.1 10.3	34 23	34 00	1
3926	22124	03 28.8	+31 41	"	"	"	4.0 10.2	38 00	32 01	2
3927	25473	03 57.7	+73 18	"	"	"	4.0 10.2	47 01	57 02	3
3928	29389	04 32.1	+76 25	"	"	"	4.1 10.3	02 03	56 03	4
3929	29678	04 35.4	+75 46	"	"	"	4.1 10.3	01 04	31 04	1
3930	46031	06 25.9	+15 58	"	"	"	4.1 10.3	38 04	18 05	2
3931	63630	07 44.6	+46 12	"	"	"	4.0 10.2	24 05	07 06	3
Wed Oct 26 Hal-B changed to I-25 I-12 focus was 26.18 207 1945										
3931 F	7 runs			I-25 extra I	010	6.0 12.2				3

277

Date Wed Oct 26-27, 1938 H-B-L Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle Est
- 3932	γ Cas HD 5394	00 50.7	60 "	I-25	Agfa Procur	010	above below 7.5 13.3	8 38	8 50	1
								8 51	8 56	
								8 57	8 59	
- 3933	mwc 7 HD 2905	0 27.3	62 34	"	astron II	"	7.5	9 07	9 17	4
								9 53	10 25	
- 3934	α Andr HD 358	0 03.2	28 32	"	Procur	"	7.2	10 32	10 40	1
								10 41	10 45	
								10 46	10 48	
- 3935	HD 358 α Andr	"	"		E 33	"		10 50	10 57	2
								10 59	11 02	
								11 03	11 04	
- 3936	mwc 8 HD 4180	0 39.2	47 44	"	Astron II	"		11 14	11 30	4
								11 30	11 39	
3937	HD 9709	01 30.0	46 36	"	Astron II	"	7.2 13.3	11 48	02 0	3
- 3938	MWC 88 HD 29866	04 37.3	40 36	"	"	"	7.1 13.3	02 30	03 10	4
(A) 3938F	from	Thurs Oct 27		14th changed to	I-12					
				I-12	astron II	010	3.4	from 26.18	26.45	3

Opening 5.40 clouds 5.50 clear occasionally
but not long enough to start 278

Ending Time EST.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
50		60 22	2	2.5?	Bop 8,8	set 1
4 66					8,8	" 5
8 9	E 1 ^h 52				16	" 9
9 17 4	E 1 ^h 11	62 34	2	4.2	Bosea 5,4	set 2. Call end 9 13 - clouds.
10 25	E 2 ^m				5,4	" 7 mostly cloudy
10 40		28 45	2	2.25	Aop 8,8	set 1
10 45					8,8	" 5
10 48	W 45 ^m				8,8	" 9
10 57			2		3,3	set 1
					3,3	" 5
11 4	W 1 01				6	" 9
11 30 4				4.7	Brose 3,3,3	set 3
11 39	W 1 00				3,3,3	" 8
12 36	W 46 48		1-2	7.00	B9 3,3,3	clouds at 00 40 from then on sky
12 40	40 40		2-3	6.1	Bane 3,3,3	mostly cloudy. set 2 at 2 06. clearing
12 53	outside this base				10/10	which at 3.10, remained solid. clouds at 3.10

for B.

* Where does one find the
coordinates for HD 34364?
Longitude.

279

Date Thurs Oct 27-28, 1938 Hel-H-T Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature <i>above below</i>	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Dec
3939	HD 180216	19 10.6	16 01	I-12	Antar I	010	2.9 9.0	6.00	6.54	1	41 46 1
3940	HD 216083 HD 216083	22 50.8	-32 06	"	"	"		7.09	9.24	2	237 ^m -31 ^m
3941	HD 1826	00 17.6	28 55	"	"	"	2.7 8.9	9 35	10 29	3	415 ^m 2
3942	" 9312	00 26.6	16 28	"	"	"	2.6 8.9	10 33	11 45	4	426 ^m 16
3943	MWC 49 HD 15472	02 24.4	70 30	"	"	"	2.5 8.9	00 04	02 04	1	22 1
3944	HD 22124	03 28.8	31 41	"	"	"	2.6 8.9	02 22	02 52	3	44 1
3945	A 3043	06 09.0	16 04	"	"	"	2.6 8.8	02 57	03 57	3	44 1
3946	43931	06 13.8	13 29	"	"	"		04 01			
	A 3931			"	"	"	2.6 8.8	04 02	05 40	4	44 1
3947	43947	06 13.9	16 03	"	"	"		05 42	6 14	1	44 1

M.C. S.C.
Oct 27 12 $-1^m 30.7^s$ $+04.0^s$

M.T. ST
 -28.0^s $+0.9^m$

Ending Time
E.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
W 1 46	16 05	1	7.14	A2 1.2, 1	
W 37 ^m	-31 54	1-0	7.4	155 1, 1, 1	for and by H
W 15 ^m	29 07	1	6.97	A3 1, 1, 1	for Y
W 22 ^m	16 38	1	7.59	G5 1, 1, 1	
W 1 ^h 42	70 41	1-2	8.0	Bane 1-1-1	
W 1 27	31 49	1-2-3	6.90	F0 1-1-1	Fr Y. Seeing variable.
E 2 07	16 04	2	7.51	G5 1-1-1	" "
	13 28		7.38	F5 1-	Settling in Double. Started with N.B.
W 1 31	13 28	2-1	7.38	F5 1-1-1	" 9 changed to south pointing to take same
W 2 06	16 02	2	7.09	G6 1-1-1	star as to O. 19/5.
					</

J.D 2429200

Date Friday, Oct 28-29, 1938, M-T Julian Day.

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature <i>Above Below</i>	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
3948	H.D. 193819	20 17.2	13 16	I-12	astral II	010	3.0 9.1	17 57 18 18	19 54 2	12W 13
3949	189086	19 53.2	30 30	—	—	—	2.9 9.1	19 58	21 08 3	12W 13
3950	1826	0 17.6	28 55	—	—	—	2.8 9.1	21 12	22 16 4	17 29
3951	7157	1 6.8	61 21	—	—	—	2.9 9.1	22 24	23 04 1	17 11
3952	11336	1 46.4	44 19	—	—	—		23 08	00 16 2	17 11
3953	18473N	2 53.1	59 17	—	—	—	2.9 9.1	00 20	01 00 3	17 11
3954	20134	3 09.1	59 41	—	—	—	3.0 9.2	01 03	01 41 4	17 11
3955	22124	3 28.8	31 41	—	—	—	3.0 9.2	01 45	02 05 1	17 11
3956	35036	5 16.7	16 01	—	—	—	2.9 9.1	02 40	02 52 2	17 11
3957	43044P	6 09.0	14 35	—	—	—	3.0 9.2	02 55	03 51 3	17 11
3958	43044F	6 09.0	14 35	—	—	—	3.0 9.2	03 55	04 20 4	17 11
3959	44738	6 18.3	14 10	—	—	—	2.9 9.0	04 29	04 55 1	17 11
3960	47255	6 32.6	31 51	—	—	—	2.9 9.0	04 59	05 13 2	17 11
3961	47050	6 31.6	30 58	—	—	—	2.9 9.0	05 26	05 18 3	17 11

Pointer at 28.13

Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
1 45 W	13 23	1	7.37 A0 1-1-1	got wrong star first in twilight, reset plate to +3
3 24 W	30 36	0-1	6.88 A0 1-1-1	quite hazy near horizon, smoke in the air.
5 07 W	29 06	2-1	6.97 A3 1-1-1	for Y
7 05 W	61 23	1	6.27 B9 1-1-1	
9 38 W	49 29	2	7.43 B8 1-1-1	
11 14 W	59 24	3	7.35 A0 1-1-1	
13 40 W	59 48	3	7.39 B3 1-1-1	
15 44 W	31 49	3-4	6.90 F0 1-1-1	For Y
17 18 E	16 03	3	7.38 A0 1-1-1	
19 09 E	14 35	3-2	7.5 B9 1-1-1	Seeing variable
21 26 W	14 35	3-4	7.5 B9 1-1-1	Used shorter slit to include the component
23 46 W	14 07	3-4	7.3 A0p 1-1-1	
25 00 W	31 49	4-2	7.31 A0 1-1-1	Seeing changed and lens got out of focus
27 55 W	30 56	1-2-3	7.24 A2 1-1-1	
				MC SC SW M.T. S.T.
Oct. 29 10 -1				32.7 +04.6 -51.4 +33.5 +01.0

Date Saturday, October 29-30, 1938 H-T Julian Day 2429201

9

Printer 29.3

Ending Time
E.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS	
3 29 W	+32 03	1	7.04	A0	1-1-1	Image astigmatic + unsteady.
3 55 W	+45 29	1	6.20	B9	1-1-1	
3 48 W	+43 11	1	6.40	A5	1-1-1	
						150+ visitors. Had several letters with 74". Took some + Jupiter with 4" seeing poor.
3 50 W	+31 10	1-0	7.32	F0	1-1-1	Mercur 23 ² ; Neptune-Altair
1 43 W	+16 37	2-1	7.59	G5	1-1-1	for JH
2 22 W	+29 07	2-1	7.05	B8	1-1-1	Partly cloudy 1:00 Clear 2:00
X 5 W	+31 49	1	6.90	F0	1-1-1	" " altitudes
0 47 W	+28 16	1-2	7.54	K0	1-1-1	Sever list
0 30 W	46 06	1	6.61	A3	1-1-1	Cloud delayed setting. Satellite exploding.

} spots 120³

Date Sunday Oct 30-31

Y- L. Julian Day 2429202

[illegible]

Ending Time
E.S.T.

	MC	SC	SW	MT _s	ST _m
Oct. 31	12	-133.1	+04.0	+35.0	+1.6
			Reset		

Monday

Date _____

Date: Oct 31 - Nov 1, 1938,

M-L

Julian Day

2429203

97

printer at 29.73

		MC	SC	SW	MT	ST
Nov. 1	12	-133.2	+03.6	+09.8	-25.0	+0.3 ^m
					Reset	

Date Tuesday, November 1-2, 1938 H-L Julian Day 2429204



290

Pointer set

	MC	SC	SW	MT	ST
Nov. 2	-133.5	+03.2	+12.0	-29.0	+0.9
					-0.2
					7.76

Date Wed Nov 2-3, 1938 Hd-L Julian Day 2429205

①

292

-9205-

Ending Time
P.S.T.

293

Date Thursday November 3-4, 1938 H-T Julian Day 2429206

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
4001	HD 172187	18 33.7	+43 08	I-12	Ray. Poly.	set above Belor 010	6.7 12.6	17 48	18 38	41	
4002	199140	20 50.1	+28 08	"	"	"	6.8 12.6	18 42	19 22	1	12 V
4003	222387	23 35.0	+73 25	"	"	"	12.8	19 29	20 19	2	12 E
4004	224098	23 50.0	+73 51	"	"	"	6.9 12.8	20 25	21 15	3	12 E
4005	1826	00 17.6	+28 55	"	"	"	6.8 12.8	21 21	22 51	4	12 V
4006	9312	01 26.6	+16 28	"	"	"	6.9 12.8	22 54	00 44	1	12 V
4007	18155	02 49.8	+46 45	"	"	"	6.7 12.7	00 48	01 48	2	12 V
4008	20367	03 11.5	+30 46	"	"	"	6.8 12.9	01 51	02 51	4	12 V
4009	39255	05 11.0	+62 33	"	"	"	6.8 12.9	02 56	03 46	1	12 V
4010	35802	05 22.2	+17 10	"	"	"	6.8 13.0	03 51	05 13	2	12 V
4011	63620	07 44.8	+40 12	"	"	"	6.8 12.9	05 18	06 18	2	12 V
							From Test				

Pointing 31.3

Ending Time
R.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
	+43 09	1-2	6.40 A5 $1\frac{1}{2}-1\frac{1}{2}-1\frac{1}{2}$	Spots 180°
1 02 W	+28 16	1	6.27 B3 $1\frac{1}{2}-1\frac{1}{2}-1\frac{1}{2}$	
5 46 E	+73 40	1-2	6.86 G5 $1\frac{1}{2}-1\frac{1}{2}-1\frac{1}{2}$	Light haze
0 05 E	+74 03	1-2	6.55 B9 $1\frac{1}{2}-1\frac{1}{2}-1\frac{1}{2}$	Light + transparency variable.
1 4 W	+29 07	2-3	6.97 A3 $1\frac{1}{2}-1\frac{1}{2}-1\frac{1}{2}$	for Y
1 48 W	+16 38	2-3	7.59 G5 $1\frac{1}{2}-1\frac{1}{2}-1\frac{1}{2}$	for H1
	46 54	3-4	7.13 K0 $1\frac{1}{2}-1\frac{1}{2}-1\frac{1}{2}$	Supp list. huge thick ice variable
2 1 W	30 59	3-2	7.04 G0 $1\frac{1}{2}-1\frac{1}{2}-1\frac{1}{2}$	Supp list
1 04 W	62 34	3-2	6.95 K2 $1\frac{1}{2}-1\frac{1}{2}-1\frac{1}{2}$	Supp list
2 2 W	17 10	2	7.22 K5 $1\frac{1}{2}-1\frac{1}{2}-1\frac{1}{2}$	Supp list
1 04 W	46 04	2	6.61 A2 $1\frac{1}{2}-1\frac{1}{2}-1\frac{1}{2}$	

ME SC SW M.T. S.T.
 Nov 4 13 -1 32.1 +04.4 +10.4 -28.0 +0.5
 Riser

new box
probably
started here.

Date Friday Nov 4-5, 1938, M-T Julian Day 9207

[illegible]

Date Sat Nov 5-6, 1938 Med-T Julian Day --- 9208

[illegible]

Set pointer 1.05 (2nd plug in)
298

Ending Time
E.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
W 2 35	29 07	2	6.93 A0 $1\frac{1}{2} 1\frac{1}{2} 1\frac{1}{2}$	
N 2 53	14 24	2 → 3 → 1	7.12 G5 $1\frac{1}{2} 1\frac{1}{2} 1\frac{1}{2}$	
E 29 ^m	16 38	3	7.59 G5 $1\frac{1}{2} 1\frac{1}{2} 1\frac{1}{2}$	Clouds occasionally Thick at 10.20.
W 28 ^m	31 49	2	6.90 F0 $1\frac{1}{2} 1\frac{1}{2} 1\frac{1}{2}$	Light Clouds
N 3 43	16 39	2-3	7.54 G5 $1\frac{1}{2} 1\frac{1}{2} 1\frac{1}{2}$	
V 0 19	16 03	3-4-2	7.51 G5 $1\frac{1}{4} 1\frac{1}{2} 1\frac{1}{2}$	Seeing Variable
V 1 10	13 08	2	7.09 F8 $1\frac{1}{2} 1\frac{1}{2} 1\frac{1}{2}$	"
V 0 58	31 45		7.58 B9 $1\frac{1}{2} 3$	Stopped exp 5 s. due to heavy ground fog.

Date Sunday Nov 6-7

Julian Day.....9209

[illegible]

Date Wed Nov 9-10, 1938 Hel-L Julian Day 9212

10

Pointer at 26.3, 2nd plug out

Ending Time EST.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
7:00	W 2 ^h 10	27 33	2	7.34 A0	1 $\frac{1}{2}$, 1 $\frac{1}{2}$
8:17	E 1 ^h 44	42 25	1	7.1 B5	1 $\frac{1}{2}$, 3
9:24	W 01 ^m	29 05	2	6.97 A3	1 $\frac{1}{2}$, 1 $\frac{1}{2}$, 1 $\frac{1}{2}$ Very bright auroral arch (narrow, green) in N
10:57	W 25 ^m	16 37	3	7.59 G5	1 $\frac{1}{2}$, 1 $\frac{1}{2}$, 1 $\frac{1}{2}$ first noticed 8.55 (to see naked eye sunspots at sunset)
11:48	W 12 ^m	42 07	3	6.67 B8	1 $\frac{1}{2}$, 1 $\frac{1}{2}$, 1 $\frac{1}{2}$ fainter later.
3	0 43 W	27 31	2-3	7.12 B9	1 $\frac{1}{2}$, 1 $\frac{1}{2}$, 1 $\frac{1}{2}$ Supp. list.
	0 54 E	13 08	2-3	7.09 F8	1 $\frac{1}{2}$, 1 $\frac{1}{2}$, 1 $\frac{1}{2}$ Took n. following (brighter comp.)
	1 17 W	16 17	2-3	7.11 G5	1 $\frac{1}{2}$, 1 $\frac{1}{2}$, 1 $\frac{1}{2}$ light clouds, "Skyride!"
	1 3 W	43 01	2-3	7.35 A3	1 $\frac{1}{2}$, 1 $\frac{1}{2}$, 1 $\frac{1}{2}$ haze.
	38 W	32 08	2-3	6.42 F0	1 $\frac{1}{2}$, 1 $\frac{1}{2}$, 1 $\frac{1}{2}$ haze, clouds.
					Supp. list.
					MC SC SW. M.T. ST.
					Nov 10 12 -1 ^m 36.4 +02.6 +11.6 -34.0 10.5

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

[illegible]

394

Ending Time
E.S.T.

305

