

1

3

Hour	Angle	Dec
End		

Date *Thursday, November 10-11, 1938* H-T Julian Day *9213*

⑦

Pointer 18.4 Second plug out.

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Remarks
19 38	1 46 W	+74 24	0-1	7.47 A3	1 1/2 1 1/2 1 1/2 Seeing variable
20 42	2 28 W	+60 30	1-2	7.24 K0	1 1/2 1 1/2 1 1/2 Light clouds
21 17	0 57 W	+29 06	2-1	6.97 A3	1 1/2 1 1/2 1 1/2 for the young Clouds frequently
22 40	1 50 W	+45 30	2-3-4	7.24 K0	1 1/2 1 1/2 1 1/2 Supp. list. Clouds
01 03	2 12 W	+46 54	2-3	7.13 K0	1 1/2 1 1/2 1 1/2 " " Clouds
04 39	1 58 W	42 29	2-3-4	7.41 K0	1 1/2 1 1/2 1 1/2 Supp. " Heavy thinned somewhat - but clouds general 180-220
05 36	0 50 W	46 05	3-2-1	6.61 A3	1 1/2 1 1/2 1 1/2 Spots 180 sec. Heavy fog.

7

Date Fri Nov 11-12, 1938 Hel-T Julian Day 9214

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	
4050	HD 176798	18 56.6 ⁹	43 07	I-12	astral II	0 10	4.5 10.6	5 31	6 25	3 W 1/2 S	
4051	HD 186340	19 38.7	60 16	"	"	"	5.0	6 29	6 49	4 W 1/2 S	
- 4052	MWC 376 HD 206773	21 39.3	57 17	"	"	"	5.2 11.0	6 53	7 33	1 W 56°	
- 4053	MWC 381 HD 208682	21 52.9	64 52	"	"	"	5.2	7 36	7 52	2 W 1° 02'	
4054	HD 1826	00 19.4	29 06	"	"	"	5.2 11.4	7 58	8 38	3 E 37°	
4055	HD 9312	01 26.6	16 28	"	"	"	5.3 11.2	8 41	9 43	4 E 41°	
4056	HD 2739	00 25.8	43 24	"	"	"	5.2	9 47	10 17	1 W 54°	
- 4057	MW 49 HD 15472	2 24.4	70 30	"	"	"	5.3 11.3	10 ²⁶ / ₂₅	00 06	2 0 41 W	
4058	" 16108	2 30.2	41 58	"	"	"	5.2	00 41	00 41	3 1 13 W	
4059	22124	3 28.8	31 41	"	"	"	5.1 11.1	00 ⁴⁵ / ₃₆	01 31	4 1 04 W	
4060	55506	6 22.7	16 19	"	"	"	5.1 11.2	01 36	02 18	1 1 02 E	
4061	50315	6 47.6	43 04	"	"	"	5.0 11.2	02 23	03 13	2 0 32 E	
4062	58796	7 21.9	29 37	"	"	"	5.0 11.3	03 29	04 ³⁶ / ₃₆	3 0 18 W	
4063	60204	7 24.3	28 55	"	"	"	5.0 11.2	04 10	05 46	2	
(A)	Saturday, Nov 12-13, 1938						M-T	clouds			and rain

214

Pointer at 29.7 + rest 29.95

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Remarks	Object	Plate No.
6 25	W 2 30	43 07	2	7.27	A3 1,1,1		
6 49	W 2 14	60 22	2	6.27	A2 1,1,1		
7 33	W 56 ^m	57 27	2	7.0	Bone 1,1,1		
7 52	W 1 02	65 00	2	5.8	B3ne 1,1,1		
8 38	E 37 ^m	29 05	2	6.97	A3 1,1,1	for Y	
9 43	E 41 ^m	16 38	2	7.59	G5 1,1,1		
10 17	W 54 ^m	43 35	4	6.59	B8 1,1,1	supp list.	
00 06	0 41W	70 39	3 → 2	8.0	Byne 1,1,1		
00 41	1 13W	42 07	2	6.67	B8 1,1,1	supp list.	
01 31	1 09W	31 48	2	6.90	F0 1,1,1	for Y	
02 18	1 02E	16 16	3-4-2	7.11	G5 1,1,1	Image small but steady.	
03 13	0 32E	43 01	1-2-3	7.35	A3 1,1,1		
04 36	0 18W	29 32	2	7.55	A5 1,1,1		
05 46		28 49	2	7.52	G5 1,1,1	Clouds, haze + 55. Completely thick 540	
cloud	and rain.						

○ |

①

Delayed opening a/c high wind

Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp.	REMARKS
43 ^m E	32 29	1	6.03 Az	1-1-1	Clouds ^{15 to 20 min} Sid Watch +0.6 from Tel setting
	15 37	1	7.04 Az	1-	clouds after 7.26 bad till 10 ⁴⁵ .
					Closed up - phoned Mr Long with that night would probably be n-9.
					Plate in box in dome - can leave developing till another day.
					<div> <div>MC</div> <div>SC</div> <div>SW</div> <div>MT</div> <div>ST</div> </div>
					<div> <div>Nov. 14</div> <div>13</div> <div>-1 37.3</div> <div>-00.2</div> <div>+33.2</div> <div>-33^s.0</div> <div>+0^m.7</div> </div>

Date Monday Nov 14-15, 1938; M-L Julian Day 9217

[illegible]

[illegible]

13

Date Tuesday November 15-16, 1938 H-L Julian Day 9218

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Hilt	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
4073	HD 199492	20 52.5	+74 16	I-12	Ast. II	010	-6.6 2.5	17 30	18 54	4
4074	211460	22 12.7	+28 41	"	"	"	-6.6 0.0	18 59	19 51	1
4075	1826	00 17.6	+28 55	"	"	"	-6.6 2.0	20 00	20 59	2
4076	9312	01 26.6	+16 28	"	"	"	-6.5 0.0	21 01	22 34	3
4077	16933	02 37.8	+46 26	"	"	"	-6.5 0.0	22 39	23 21	4
4078	13922	02 47.7	+42 11	"	"	"	-6.7 0.0	01 25	01 50	1
4079	46031	06 25.9	+15 58	"	"	"	-6.6 0.0	02 06	03 02	2
4080	63680	07 44.8	+46 12	"	"	"	-6.6 0.0	03 07	05 53	3
4081	76886	08 45.6	+42 23	"	"	"	-6.6 +0.1	03 50	04 54	4
4082	86166	09 51.7	+45 53	"	"	"	-6.6 +0.1	04 04	04 59	1
<p>Wed Nov 16-17 H-L Clouds</p> <p>Thursday Nov 17-18, 1938 M-T Cloudy</p> <p>No change at 2:30 AM.</p>										

(10)

16-17 9211
17-18 9220
18-19 9221
19-20 9222

Temp at 20.8

Ending Time
E.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
1 ²² W	+74 23	2-1	7.47 A3 1-1-1	2 nd time, partly cloudy 17 ⁵⁵ 18 ¹⁰
1 ⁴⁵ W	+28 52	2-1	7.53 F5 1-1-1	Supp. Dist. Stage
0 ⁰⁰	+29 07	2	6.97 A3 1-1-1	for Y Stage
0 ²⁴ W	+11 33	2	7.59 F5 1-1-1	for H ^{with} 21 ³⁰ ⁴⁴ 21 ⁴⁶ - 22 ²⁰
1 ⁰¹ W	+46 35	2	7.41 F5 1-1-1	with Th. 23 ²⁰ - 24 ⁰⁰
2 ²⁰ W	+42 20	2-1	7.43 F5 1-1-1	Supp. looking at 2 ⁵⁰ close 18.15
6 ⁰⁵ E	+13 57	0-1	6.51 A5 1-1-1	
6 ³⁴ E	+46 05	1-2	6.61 A5 1-1-1	
6 ³⁸ E	+42 12	1-2	7.14 K0 1-1-1	Supp.
0 ¹⁴ E	+45 41	1-2	7.50 K0 1-1-1	Supp.

75

Date Saturday, November 19-20, 1938 H-T Julian Day 9222

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	
4083	HD 172187	18 33.7	+43 08	T-12	Act. II	5 μ 010	+0.3 +6.6	17 33	18 05	2
4084	199102	20 49.8	+29 07	"	"	"	+0.3 +6.6	18 09	19 39	3
4085	221471	23 29.0	+59 29	"	"	"	+0.3 +6.5	21 17	22 37	4
4086	9312	01 26.6	+16 28	"	"	"	+0.3 +6.5	22 43	00 03	1
4087	22124	03 28.8	+31 41	"	"	"	+0.3 +6.5	00 09	00 55	2
4088	22103	04 08.3	+12 32	"	"	"	+0.3 +6.5	00 38	02 16	3
4089	3-375	05 04.1	+10 10	"	"	"	+0.3 +6.5	00 20	04 06	4

①

Sky thick late afternoon. slowly clearing with

16

Set 26.1

Field Time
187.

	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
2	3 ⁰⁶ W	+43 10	1-2	6.40	A5 1-1-1	Stage
3	2 ²³ W	+29 15	1-2	7.54	B9 1-1-1	Transferring responsibility.
	In changing over to 221671 a large streak lit-hand, and a few badly marked ones. Y. 4 marked on plate from all = 1/2 inch = 1/2 inch.					
4	2 ⁴² W	+59 40	1	7.41	A6 1-1-1	
1	2 ¹⁰ W	+16 38	1-2	7.59	F5 1-1-1	Lighter
2	1 ⁰⁰ W	+31 48	1	6.90	F6 1-1-1	Drop line
3	1 ¹² W	12 35	2-1	7.49	K6 1-1-1	Large clouds.
4	2 ⁰⁰ W	42 31	2-1	7.41	K6 1-1-1	Drop line. The clouds are thick.
	continued with plate, all the same as the first 15. Still the same as the first. This is the same.					

Date Sunday Nov 20-21 B-Y-L

Julian Day.....9223

[illegible]

79

Date Monday Nov 21-22, 1938, M-L Julian Day 9224

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
							<i>above plate</i>			
4100	HD 16855	2 37.1	43 07	I-12	Astro II	.010	-1.6 +4.9	22 25	23 15	3
4101	22124	3 28.8	31 41	—	—	—	-1.5 +4.8	23 19	01	4
4102	28150	04 21.3	17 58	—	—	—	-1.3 +5.0	00 11	21	1

pointer at 24.45

Ending Time
E.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS																		
					stars visible faintly for most of evening. Some a bit at 20.30 but closed in again. Clear at slowly from 21.30. Still considerable cloud in S. and around horizon. Deflected mirror all carefully for water. No signs of it spotted on the sky. Stars - some faded off.																		
0 20 W	+3 16	3-2	6.72	A2 1-1-1	for Y																		
0 14 W	31 48	3	6.90	F0 1-1-1																			
0 42 W	18 03	2-3	6.74	A0 1-1-1	layers thickening. clouds after this exposed. They remaining moving still cloud up at 2.30.																		
					<table><tr><td></td><td>MC</td><td>SC</td><td>S.W</td><td>MT</td><td>ST</td></tr><tr><td>Nov 22 12</td><td>-1 40.3</td><td>-03.1</td><td>+04.7</td><td>-25.4</td><td>+0.4</td></tr><tr><td>23 12</td><td>-1 40.5</td><td>-03.2</td><td>+11.8</td><td>-25.2</td><td>+0.8</td></tr></table>		MC	SC	S.W	MT	ST	Nov 22 12	-1 40.3	-03.1	+04.7	-25.4	+0.4	23 12	-1 40.5	-03.2	+11.8	-25.2	+0.8
	MC	SC	S.W	MT	ST																		
Nov 22 12	-1 40.3	-03.1	+04.7	-25.4	+0.4																		
23 12	-1 40.5	-03.2	+11.8	-25.2	+0.8																		
					+ 91																		

+ 01

Date Wed Nov 23-24, 1938 Hal-L Julian Day 9226

[illegible]

Pointer at 18.2

22

Ending Time
L.S.T.

Hour Angle
End

Declination

Seeing

Ptg. Mag.

REMARKS

1-45 1

W 5^h 39^m

32 38

0

7.19

B9 2,2,2

Variety of delays.

shot 5.3 m without
filter

1-52 2

W 24^m

29 07

0

6.97

A3 1,1,1

for Y

1-56 3

W 33^m

16 38

0-1

7.59

G5 1,1,1

1-59 4

W 7^m

42 06

1

6.67

B8 1,1,1

Supp.

11-4 5

W 6^m

27 30

1-2

7.12

B9 1,1,1

Supp. N. following of hair

11-5 6

0⁴¹ W

16 29

1

6.97

B8 2,4-2

for M

11-5 7

0¹² E

13 29

1

7.38

F5 1-1-1

Quartz, look brighter component.

11-5 8

1

6.91

A2 1-1

* large clouds, thick at 25.5 m. The distance
closed and water. Light near the
clouds up at 3.35. Angles.

* The light is low but not out.

Nov 24 12 MC SC SW MT ST
-1^m 40.2 -02.9 -22.2 +0.6^m

Date Thursday, November 24-25, 1938 H-T Julian Day 9227

[illegible]

Date Friday, Nov. 25-26, 1938, M-T Julian Day 9228

[illegible]

Pointer at 18.11

Hour Angle
EndHour Angle
End

Declination

Seeing

Ptg. Mag.

REMARKS

Date

28

2 13 W

13 41

0

7.37 B8 1-1-1

clouds slowly coming up from SW 18.20 - 19.30
 image very faint & showing last part of exposure
 sky still a little hazy. Heavy haze at 20.20 image lost.
 image gone at 20.30

None

29

0 22 W

29 07

0

6.97 A3 1-1-1

closed up 21.15
 Still cloudy at 23.00

Date Thursday, December 1-2, 1938 Julian Day 9234

[illegible]

Handwritten: H-T

Date Monday, December 12-13, 1958 4-L Julian Day.

Tuesday, November 13-14, H-L. Cloudy. Partly sunny.

clouds + snowflakes in afternoon. *Long off track*
30

Exp. at 22.15

Ending Time
E.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS					
1 23 W	+18 08	1	7.40 Ko	1-1-1	Dec 12	12	-1.404	-04.1	-48.9	H.T. S.T. -24.2 +0.2
1 19 W	+45 48	1-0	7.34 G5	1-1-1	Supp SpC	14.				Reset
1 11 W		1	7.30 Ko	1-1-1	Supp					
2 11 W	+48 00		7.54 Fo	1-1-1	Supp					

Date Wed. Dec 14-15, 1938 49-1 Julian Day[illegible]

Snow clouds earlier

Point at 18.9

32

Ending Time L.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
2 30 ^m	43 36	0	6.59	138 1/11	Supp.
2 10 ^m	16 39	1	7.59	35 1/1, 1	
W 2 ^h 11	29 05	0	6.97	193 1/2, 1	4m Y. mid diffie. 5m 1/2 N
2 5 ^m	31 50	1-2	6.90	50 1/1, 1	4m
W 2 6 ^m	13 26	1	7.48	15 1/1, 1	
1 ¹⁸ W	15 38	0-1	7.48	15 1/1, 1	clouds, more clouds sky remaining thick closing up. snowing at 3.00.
					<div> <div>NC</div> <div>SC</div> <div>SW</div> <div>MT</div> <div>ST^m</div> </div> <div> <div>Reel 15</div> <div>12</div> <div>-1^m 92.0</div> <div>-4^S 2</div> <div>+4^S 9</div> <div>-32.0</div> <div>-0.3</div> </div>

Date Thursday, 11 May 1961 Julian Day 161

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.
9131	HD 35817	05 43.4	43 59	I-12	Admiral	010	Alma 1.2 -10.4 -0.2	0 53	01 57
<p>Friday, Dec 16-17 M-T. Cloudy some stars</p> <p>Cloudy 12-3-00</p>									

Quincy, Ill.

Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS																														
1 32W	43 58	2-1	7.57 A2 1-6-1	1 50 Still visible																														
				<table><tr><td></td><td>MC</td><td>SC</td><td>SW</td><td>MT</td><td>ST</td></tr><tr><td>Dec. 16 12</td><td>-1 40.6</td><td>-04.2</td><td>+09.8</td><td>-38.8</td><td>-0.2^m</td></tr><tr><td>Dec. 17 12</td><td>-1 38.7</td><td>-04.0</td><td>+16.0</td><td>-31.2^s</td><td>-0.1^m</td></tr><tr><td>Dec. 19 12</td><td>-1 39.2</td><td>-03.2</td><td>+02.2</td><td>-29.7^s</td><td>+0.3^m</td></tr><tr><td></td><td></td><td></td><td>Rent</td><td>Rent</td><td></td></tr></table>		MC	SC	SW	MT	ST	Dec. 16 12	-1 40.6	-04.2	+09.8	-38.8	-0.2 ^m	Dec. 17 12	-1 38.7	-04.0	+16.0	-31.2 ^s	-0.1 ^m	Dec. 19 12	-1 39.2	-03.2	+02.2	-29.7 ^s	+0.3 ^m				Rent	Rent	
	MC	SC	SW	MT	ST																													
Dec. 16 12	-1 40.6	-04.2	+09.8	-38.8	-0.2 ^m																													
Dec. 17 12	-1 38.7	-04.0	+16.0	-31.2 ^s	-0.1 ^m																													
Dec. 19 12	-1 39.2	-03.2	+02.2	-29.7 ^s	+0.3 ^m																													
			Rent	Rent																														
visible very faintly in zenith			20.00 - 22.00																															

Date Monday Dec 19-20, 1938 M-L Julian Day

[illegible]

Pointer at 2082

Ending Time
EST

Hour Angle
End

Declination

Seeing

Ptg. Mag.

20h deposit of ice and slush off centre field

REMARKS

3 38 W

44 52

2-1

7.40

B9

1-2-1

Some clouds after sunset.

1 23 W

29 06

1

6.97

A3

1-2-1

for Y

32 05

2

7.56

A2

1-2

Clouds over at 20.30 image gone

still thick at 21.30

Closed dome

			MC	SC	SW	MT	ST
Dec. 20	12	-1	39.7	-03.6	+07.4	+01.0	+0.4 ^m
Dec. 21	12	-1	40.9	-03.6	+11.0	+00.6	+0.3 ^m
Dec. 22	12	-1	39.8	-03.6	+16.4	+01.0	+0.3

Date Thursday December 22-23, 1938 Julian Day.[illegible]

Aug 24 17.15

38

Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
[0 17E]	+33 15	0	7.05 KO 1-1-1	Very hazy
2 11N	+59 31	0	6.78 AO 1-1-1	Light haze
1 00W	+60 44	1	6.22 FO 1-1-1	becoming gradually very thick. * Callanavee? Cloud done 20 ⁴⁵ Still the 32 ⁰⁰ cloud sp.
				<div style="display: flex; justify-content: space-around;"> MC S.C. SW HT ST </div> <div style="display: flex; justify-content: space-around;"> Dec. 23 12 -1 40.1 -04.1 +21.7 +01.8^m +0.4^m </div>

Date Saturday, Dec 24-25, 1938 - M Julian Day

Hour Angle
End

40

Cloudy all afternoon and first part
of evening. Clear shortly after 19.00.
Pointer at 20.25

REMARKS

Hour Angle
End

Declination

Seeing

Ptg. Mag.

Reading Time
E.S.T.

23.15

16 23

0

7.50

B9

1-2-1

light haze at 22.20 and 22.40 - clearing away
at 22.30

light snow came up suddenly
at 23.15. Snowing hard at 24.00.

Closed dome.

Windy - put on blower.

Plate box in dome.

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

[illegible]

Ending Time
L.S.T.Hour Angle
End

Declination

Seeing

Ptg. Mag.

REMARKS

Wound watches and changed paper on the recording
instruments.

Strong east wind and falling barometer.

Wound clocks Tuesday AM.

Wound watches Tuesday + Wednesday.

is ice in the centre piece.
Finds the base

Beware when it thaws!
10/10

Date Wed Dec 28-29, 1938 Hd-L Julian Day

Hour Angle
End

44

Printer at 15.5

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
W 20 ^m	31 49	O	6.90	Fo 1,1,1	for Y	Some clouds / Ice in
E 45 ^m	61 46	1	5.77	Ho 1,1,1	setting 2	/ see quick motion
E 25 ^m	"	1	"	" 1,1,1	" 7	hand watch
			2.09	F8 1,		Thick closed 11.40
- Hd						Sid watch correction = + 0.5 ^m
						Friday - ^{am} Bunch of little birds perched

Date Friday - Dec 30-31, 1938, M-T Julian Day

Hour	Angle	End
1	28W	3
1		1
2		2
3		3
4		4
5		5
6		6
7		7
8		8
9		9
10		10
11		11
12		12
13		13
14		14
15		15
16		16
17		17
18		18
19		19
20		20
21		21
22		22
23		23
24		24

pointer at 14.6.

Ending Time
E.S.T.

Hour Angle
End

Declination

Seeing

Ptg. Mag.

REMARKS

Cloudy for first part of night

Could see moon at 19.00 hr but not stars. Clearing at 20.00. Clear slowly after 20.30.

22 41 11

1 28W 31 50 - 0 6.90 Fo 1-2-1

seeing terrible.

for Y

See Qm. on Feb. 11

on Feb. 11

on Feb. 11

on Feb. 11

on Feb. 11

on Feb. 11

on Feb. 11

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on Feb. 11

1 26W 15 25 0 7.02 B9 1-2-1

2 20W 29 59 0 7.06 A0 1-2-1

2 20W 15 26 0 6.47 B0 1-2-1

3 20W 14 24 0 5.46 A2 1-2-1

1 20W 28 06 0 5.10 A2 1-3

1-1

Date Saturday Dec. 31-Jan. 1, 1938-1939 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
HD 35076		05 17.0	+28 51	I-12	Astr. II					
Monday Jan 2-3, 1939							M-L			
		19.30 hr.	Cloudy all afternoon and thick after Moon visible through clouds but no stars							
		20.30 "	Much thicker - moon not visible							
		21.30 "	thick							
		22.30 "	thick as soup							
Wed Jan 4-5, 1939							Snow M-L			
Thursday Jan 5-6, 1939							Light rain much of evening. Then short motty			

Cloudy + snow all day. Clearing, but fine snow 21³⁰. Opened up 22²⁰.

48

Temp. set 12.8

Ending Time
E.S.T.

Hour Angle
End

Declination

Seeing

Ptg. Mag.

REMARKS

6.37 B9

Delayed start because of snow coming from shutter on first opening. Closed up. Then clouded over during setting. Apogee 22³⁰. Shutter opened briefly, and closed very briefly.

Found standard time watch stopped. Wound side real watch as it was still going.

sunset
seen.

			MC	SC	SW	MT	ST
1939	Jan. 3	12	-136.1	-06.3	+74.5	+05.1	+0.7
	Jan. 4	12	-135.7	-06.8	+74.8	+05.6	+0.4
	Jan. 5	12	-129.5	-07.1	+73.9	+06.5	+0.6
	Jan. 6	12	-135.1	-07.5	+79.1	+06.6	+0.5

clear intervals between 10³⁰ and 11⁰⁰. Too wet + too cloudy to open shutter again.

Date Julian Day

[illegible]

50

Hour Angle
E.T.Hour Angle
End

Declination

Seeing

Pkg. Mag.

REMARKS

		MC	SC	SW	MT	ST
Jan 7	10	-1 34.9	-07.9	+34.1	+07.0 ^s	+0.6 ^m

Date Sunday Jan 8-9 Y-L

Julian Day

[illegible]

Cleared around 9⁰⁰ delay 2 hrs. shot
in dec. circles - which I could not find. Was
afraid to put heat on. Right are our old time.
did not have 6 V on in any part of spectrograph
for fear there might be a short somewhere
with galvanometer circuit.

REMARKS

Reading Time L.L.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp
1.54	18 ^m W	43 54	1	7.16	B9 1-1-1
50.2	22 ^m W	16 06	1-2	7.13	B5 1-1-1
2.35	1 26 W	13 09	1	7.09	F8 1-1-1
2.44	2 14 W	29 33	1	7.55	A5 1-1-1
2.45	0 43 E	30 19	1	7.11	F0 1-1-1
2.48	0 12 W	29 08	1	7.11	A2 1-1-1
3	47 10	1	1	6.09	F2 1-
4				7.21	F2
					10/10

For Dr. Heard
" " "
" " " light clouds
Supp. Lost.
" "
" " at 5.20 dec guiding and
setting motion began to give trouble, it
finally refused to work. Inspection
showed that the motor chatter when
button is pressed, but refuse to turn
over. had to call work off.

faithful, the hand crank
on Dec. guiding and setting motion.

	MC	SE	SW	MT	ST
Jan. 9 12	-2.34.0	-08.1	+45.3	+06.6	+0.5 ^m
Jan. 10 12	-1.34.3	-08.4	+48.1	+07.0	+0.6 ^m
Jan. 11 12	-1.34.3	-08.7	+52.3	+05.5	+0.7 ^m

Date Thursday, January 12-13 1939 H-T Julian Day

Thick clouds all evening - snowing after

ML SC SW MT ST
 Jan 12 12 -1^m 34.4 -08.5 +58.5 +05.3 +0.7

Partly Clearing from 18¹⁵ on. Opened up about 18⁴⁵. Water dripping from
 Dec alio (at camp end) on morning. None on rock yet. 54

Ending Time
 11.1

Hour Angle End	Declination	Seeing	Ptg. Mag.	Remarks
3 ²² ✓	+32 38	0	7.40 F5 1-1-1	Cloudy days 19 ¹⁵ - 19 ⁴⁵ ; 19 ⁵⁰ - 20 ⁰⁰ ; 20 ¹⁵
1 ¹⁶ W	+32 37	0	7.49 K0 1-1-1	Subp. Some clouds
1 ²⁶ W	+42 31	0-1	7.41 K0 1-1-1	Thick clouds 22 ⁰⁰ - 23 ⁰⁰
2 ⁰⁴ W	+54 54	1	7.54 K0 1-1-1	Clouds 0 ⁴⁰ - 1 ⁰⁰
2 ²⁸ W	46 06	1-2	6.61 A0 1-1-1	Heavy clouds Thick 2 ⁴⁰ - 4 ¹⁰
0 ³⁷ W	28 40	0	6.75 A0 1-1-1	Heavy 3 ⁰⁰ - 3 ⁴⁰ - 4 ¹⁰ - 6 ¹⁰

ML SC SW MT ST
 Jan 13 12 -1 33.6 -08.9 +01.9 +09.6 +0.7
 Jan 14 10 -1 33.4 -09.0 +04.1 +09.3 +0.8
 Adv 1^m

21.00 hrs

55

Date Sat Jan 14-15, 1939 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
- 41160	MW 18 HD 9105	01 24.6	62 51	I-12	after II	010	-10.5 -3.5	5 50	7 00	2
4161	HD 9312	01 26.6	16 28	"	"	"	-10.6 -3.6	7 07	8 07	3
4162	HD 22124	03 28 3	31 41	"	"	"	-10.6 -3.6	8 11	9 51	4
4163	HD 45194	06 21.0	13 10	"	"	"	-10.5 -3.7	9 57	7 -7	1
4164	HD 57049	07 14.5	15 21	"	"	"	-10.5 -3.7	9 48	10 17	2
4165	5 7728	07 17.4	15 33	"	"	"	-10.6 -3.7	10 20	11 14	2
4166	" 58746	07 21.9	27 37	"	"	"	-10.5 -3.7	11 19	0 14	/
4167	62200	07 21.2	35 40	"	"	"	-10.7 -3.7	0 25	1 25	2
4168	62702	07 08.8	15 32	"	"	"	-10.6 -3.7	1 27	2 40	2
4169	78601	09 09.4	11 53	"	"	"	-10.6 -3.7	2 42	3 12	2
4170	84604	09 31.0	35 41	"	"	"	-10.6 -3.7	2 26	3 04	13
4171	90602	10 21.6	45 43	"	"	"	-10.6 -3.7	3 31	4 12	2
- 4172	96625	11 01.3	62 51	"	"	"	-10.6 -3.7	3 55	4 11	3
4173	98702	11 11.5	47 49	"	"	"	-10.6 -3.7	4 15	4 47	3
4174	102555	11 32.2	45 47	"	"	"	-10.6 -3.7	4 50	5 10	1
4175	104101	11 33.1	45 45	"	"	"	-10.6 -3.7	5 33	6 03	2

Counter at 17.7

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
17 2	W 50 ^m	63 02	1	7.5	B53C 1,1,1	
17 2	W 1 ^h 55	16 40	1	7.59	G5 1,1,1	
17 2	W 37 ^m	31 50	2	6.90	Fo 1,1,1	for X
17 2	E 1 ^h 23	13 08	2-3	7.09	F8 1,1,1	
17 2	E 1 ^h 43	15 15	2	6.47	Po 1,1,1	
17 2	W 48 ^m	15 30	2-3	7.09	G5 1,1,1	
17 2	W 12 ^m	29 33	3	7.55	H5 1,1,1	
17 2	W 1 09	31 45	3	7.55	B4 1,1,1	
17 2	W 1 07	43 15	3	7.46	Li 1,1,1	
17 2	W 0 35	11 44	3	6.74	Fo 1,1,1	Supplied
17 2	W 0 40	32 34	4	7.52	F2 1,1,1	Supplying machine in the center of the field
17 2	W 0 46	45 31	4	7.44	Ho 1,1,1	Supplied
17 2	W 0 25	23 31	4-5	6.45	Po 1,1,1	
17 2	W 0 43	27 50	4-5	7.21	Al 1,1,1	Supplied
17 2	W 1 07	25 45	4-5	7.55	F2 1,1,1	Supply Gas
17 2	W 0 45	15 45	4-5	7.42	F2 1,1,1	Supply Gas

Date _____

Date.....1947.....

Julian Day

[illegible]

Date Sunday Jan 15-16 K-L Julian Day.

[illegible]

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Date *Monday, Jan 16-17, 1939, M-L* Julian Day

Plate No.	Object	R.A. 1900	Declination 1000	Instrument	Emulsion	Slit	Temperature <i>above below</i>	Starting Time E.S.T.	Ending Time E.S.T.	Exposure Sec	Dist
4179	HD 16594	2 34.5	31 53	I-12	<i>Astra II</i>	.010	-8.1 -1.4	17 48	19 32	1	20W 32
4180	35173	5 17.8	15 55	—	—	—	-8.1 -1.4	20 34	21	2	
4181	HD 80613	09 15.7	15 48	I-12	<i>Astra II</i>	<i>Sec</i> .010	-9.7	02 35	05 25	1	31
4182	" 91181	10 26.5	44 45	"	"	"	-10.1	03 33	05 40	2	34
4183	36831	15 17.7	12 56	"	"	"	-10.1	05 50		3	

Ending Time
E.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
0 20W	32 05	2-1	756	A2	1-2-1
	16 00	1	6.89	B8	1-2
1 33W	15 32	0	6.49	A0	1-1-1
2 38W	44 29	0	7.46	A5	1-1-1
-	16 46	0	6.20	A0	1-1-1

Pointer at 19.72
 Changed focus from 26.18 to 26.20. ^{cloud at 18.50}
 clouds again at 19.25. closed dome.
 Clear again. Thick all over at 21.00 all this ^{end}
 remained absolutely thick.
 closed dome at 22.00
 few flakes of snow
 turned off heat just on blow 22.45.
 Mostly clear at 11.45, thick at 12.15. clear 11.45
 clouds at 4.10, haze.
 Supp. list here, light snow.
 Jan. 17 12 MC SC SW MT ST_m
 -1 32.1 -09.4 +24.2 +15.6 +0.9

Date Tuesday, January 17-18, 1938 H-L Julian Day 9281

Wind from 18-19 Hrs. - 1 Clouds and snow all morning

65

Date Thurs Jan 19 1938 Hd - 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
4186	HD 9312	01 266	16 28	I-12	Extra II	010	-14.0 -71	5 53	6 57	2
4187	22124	03 285	20 41				-14.0 -71	7 24	8 29	3
4188	22124						-14.0 -71	7 54	8 59	4
4189	22124						-14.0 -71	8 24	9 29	5
4190	22124						-14.0 -71	8 54	9 59	6
4191	22124						-14.0 -71	9 24	10 29	7
4192	05446	07 419	29 39				-14.0 -71	11 24	0 34	8
4193	60800	01 312	31 50				-14.0 -71	0 39	2 01	9
4194	84004	09 370	32 44	"			-14.0 -71	2 09	3 10	10
4195	96528	11 023	32 52	"			-14.0 -71	2 03	3 07	11
4196	102055	11 432	28 59	"			-14.0 -71	3 30	4 32	12
4197	109977	12 337	15 46	"			-14.0 -71	4 31	5 01	13
4198	124853	14 110	28 12	"			-14.0 -71	5 40	6 10	14
4199	127531	15 264	8 05	"			-14.0 -71	5 53	6 35	15
4200	127845	15 543	11 05	"			-14.0 -71	6 44	7 12	16

From T. 51

Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
15 16 39	1	7.59	G5 1/1, 1	
31 50	0-1	7.70	F0 1/1, 1	
	1		1/1	
	2-4		1/1	
15 33	1		1/1	
15 31	2	7.09	F2 1/1, 1	
W 0 47	2	7.52	P5 1/1, 1	
W 2 05	2	7.58	Pq 1/1, 1	
W 0 32	2	7.52	F2 1/1, 1	Scuffs. Scoring visible
W 0 01	2-3-4	6.45	A 1/1, 1	Scuffs large. Hdr's not
W 0 22	2-3	7.55	F2 1/1, 1	Scuffs
W 0 10	3-4	7.43	F2 1/1, 1	"
E 0 49	3	7.22	A 1/1, 1	"
O 14	3-2	7.58	F5 1/1, 1	"
W 0 44	3	7.09	F5 1/1, 1	"
<div style="display: flex; justify-content: space-between; align-items: flex-end;"> <div> <p>Jan 20. 13</p> <p>16-10</p> </div> <div> <p>MC: SC SW</p> <p>-131.6 -10.4 +41.8</p> </div> <div> <p>NTW STW_m</p> <p>+23.2 +0.2</p> <p>Reset</p> </div> </div>				

Date Monday Jan. 23-24, 1939, 11-L Julian Day

[illegible]

Pointer at 14.15

Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS					
					MC	SC	SW	MT	ST
					Jan 21 12	-1 31.6	-10.6	-13.8	+16.4 +0.6
								Adv 1 ^m	
					Jan 23 12	-1 30.0	-09.7	-03.7	-03.0 +0.1
0 24 W	29 27	2-1	7.17	B9 1-2-1	light haze over most of sky at start. Stopped But				
0 30 W	16 29	2	6.97	B8 1-2-1	Delayed by difficulty in throwing Helix's E. must be in somewhere in R.A. circles. Clouding up gradually from S.W. image almost gone at 20.15				
					Closed dome at 21.15				
					Jan 24 12	-1 31.6	-11.7	-00.4	-02.6 +0.4
					Jan 25 12	-1 31.7	-12.3	+04.7	-02.6 +0.4

Date 1910 Jan 25-26, 1921 42-L Julian Day.

[illegible]

Pointer at 7.6

Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
N 2 ^h 23	16 39	0	7.57 G 1, 1, 1	Dome Temp -1
N 2 ^h 15	44 46	0	7.88 B 2, 1, 1	-5
N 59 ^m	13 08	0	7.09 F 1, 1, 1	
1 37 W	15 31	0	7.49 G 1, 1, 1	
2 20 W	13 15	0	7.48 K 0 1, 1, 1	-8
0 22 W	23 40	0	6.45 A 2 1, 1, 1	
57 W	27 05	0	7.21 A 2 1, 1, 1	
	25 22	0	7.22 A 2 1	
				Supp. list shows at 440 clearing -10
				" " clouds slowly after start
				Dec clamp stiff, had to blink up
				a clip twice to release it.
				Could not start blow! too cold!
				MC 9C SW MT ST
				Jan 26 12 -1 31.6 -12.8 +10.2 +01.6 +0.4

Date Thursday Jan 26-27, 1939, M-T Julian Day

[illegible]

temp in dome 0°

Ending Time
EST.

Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
to 30° altitude. NE wind.				
Decided to open.				
1 24 W 28 19	1	5.79 B8	1-2-1	Counter set as low as possible at 8.1. Temperature in spectrograph at start ^{above} -23.0 ^{below} -15.0 galvanometer read 20 to right when after put on survey about left turned heat off for a little while. Heat off
1 52 W 45 57	1-2	7.1 A2	1-2-1	Have cleaned
1 11 W 45 03	2-3	7.26 A2	1-2-1	Light not working properly. Heat off after 11.15. - 11.45. Heat off See right record for details.
<div style="display: flex; justify-content: space-between; align-items: flex-end;"> <div> MC SC S.W. Jan. 27 - 12 -1^s 31.5 -13.3 +15.9 </div> <div> MT ST +05.2 +0.6^m </div> </div>				

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Date Fri Jan 27-28, 1939 HD-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
4213	HD 5394	00 50.7	60 "	I-12	Extra I	210	-17.1	6 07	6 47	2	1/2 02
4213F	Charged Focus	to I-25		I-12 focus was	26.20	telt	19.45				
				I-25	Extra II	010				2	
4214	HD 5394	00 50.7	60 "	I-25	Proton	010		7 55	8 05	1	
								8 05	8 09		
								8 09	8 10		
- 4215	MWC 88 HD 29866	4 37.3	40 36	"	Extra II	"	-16.0 -88	8 18	8 58	3	1/2 15
- 4216	MWC 146 HD 45995	6 25.6	11 19	"	"	"	-15.9 -86	9 07	9 41	4	1/2 30
- 4217	MWC 156 HD 50083	6 46.5	5 13	"	"	"	-16.0 -90	9 47	11 07	1	1/2 15
- 4218	MWC 190 HD 65475	7 55.8	-2 36	"	"	"	-16.0 -89	11 13	11 37	2	1/2 15
4219	HD 75486	8 40.7	62 20	"	"	"	-16.2 -88	11 45	1 30	3	1/2 15
4220	HD 75486	8 40.7	62 20	"	"	"	-16.2 -88	11 41	2 30	1	1/2 15

Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
647 W 2 ^h 02	60 20	3	2 Bop 4.5, 4	
	outside the base		no filter 4/4	Set 1 23.2 } Tilt 23.15 " 6 23.4 } " 9 23.6 } Developed: 23.2 is OK
	60 20	3	2 Bop 8.9	Set 1 8.9 " 5 8.9 " 9 8.9
W 26 ^m	40 41	4	6.1 B4ne 3.3, 3	
E 38 ^m	11 20	4	5.8 B2ne 3.3, 3	This star has a companion to IV
N 27 ^m	+5 10	3	6.8 B2R 3.3, 3	
W 48	-2 42	2-3	6.4 B2C 3.3, 3	
W 50	+62 11	3-4	6.00 Fo 3.3, 3	Large Sun spot
	+59 17	3	6.5 6	Thin disk of star
<div> <div>MC SC SW</div> <div>Jan 28 10 -1^m 31.5 -13.8 +19.7</div> </div> <div> <div>MT ST</div> <div>+09.8 +0.7</div> </div>				

Date Sunday Jan 28-30 Y-L Julian Day _____[illegible]

[illegible]

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Date *Tuesday January 31 - February 1* - 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
- 4221	HD. 27295	4 ^h 13 ^m 5 ^s +20° 54'	I-25	E-33	010	below cloud	-14.0 -7.0	20 44	22 16	4	2 4
- 4222	32549	4 58.9 +15 16	"	"	"	"	-14.2 -7.0	22 22	23 32	1	2 1
- 4223	4031R	5 52.9 +37 12	"	Purum	"	"	-14.1 -7.0	23 37	23 52	4	2 4
	"	"	"	"	"	"		23 57	00 03		2 3
- 4224	"	"	"	"	E-33	"		00 12	00 14	1	2 4
	"	"	"	"	"	"		00 15	00 20		2 4
- 4225	75333	8 44.3 -03 04	"	"	"	"	-14.2 -7.0	00 29	01 15	4	2 4
- 4226	78316	01 02.4 +10 55	"	"	"	"	-14.0 -7.0	01 22	02 52	1	2 1
- 4227	10719E	12 19.4 +88 15	"	Astra II	"	"	-14.0 -7.0	03 03	04 38	~	2 4
4228	5914	00 55.6 +85 29	"	"	"	"	-14.0 -7.0	04 48	06 30	~	2 4

Wed Feb 1-2 45 L clouds - snow

Thursday Feb 2-3 H-T Clouds most of evening

Clouds 100 still cloudy at 4:00

occasionally, but the sky is for
very short intervals. E. side of sky

Cloudy early morning.

78

Printer out 14.9

Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
2 25 N	+20° 59'	1-2	5.34 B8	2-2-2 In B.
2 55 N	+15 19	1	4.63 B9	2-2-2 "
2 21 W	27 14	1	2.71 Aop	7-7-7 " setting 2
2 32 W	"	"	" "	7-7-7 " 8
2 44 W	"	"	" "	3-3 " 2 When beginning to spot
2 50 W	"	"	" "	3-3 " 8 I noticed two displ. sym-
0 54 W	-03 10	1	5.17 B9	2-4 " I had to stop, spec. gray close to pole.
2 13 W	+10 55	1-2	5.09 B8	2-2-2 " Have fallen out of tel.
telescope taken East of pole 5000 ft. N				
0 46 W	+00 01	1-2	6.56 Fo	1-2-2 3, 3, 3
1 53 W	+00 42	1-2	6.54 A2	3, 3, 3
<div> <div>MC SC BW MT ST</div> <div> <div>Feb. 1 12</div> <div>-1 32.5</div> <div>-15.9</div> <div>+37.3</div> <div>+03.8</div> <div>1.1</div> </div> </div>				
<div> <div>Feb. 2 12</div> <div>-1 37.8</div> <div>-16.2</div> <div>+41.8</div> <div>+04.5</div> <div>+1.2</div> </div>				
Telescope very wet and frosted. Spent one hour cleaning it (partly). Put heat on in upper cell to try to melt off frost. Fri Feb 3 11 AM - Cloudy				

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Date Saturday, Feb 4-5, 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.	Hour Angle End	Dec
4229	HD 26398	4 5.4	16 22	I-25	Auto D	010	-9.7 -27	18 18	20 04	1	11.1
<p><i>Along Below</i></p> <p><i>Watch on the clock again. Things started to stop. Stopped at 11:45. Went to clock room.</i></p> <p><i>From top after I-12 in 30 minutes.</i></p>											
4230	HD 43583	6 11.9	14 05	I-12	Auto D	010	-9.9 -28	21 27	22 43	2	11.1
4231	43683	6 12.4	14 25	—	—	—	-10.2 -28	22 45	23 43	3	11.1
4232	3538	3.7	16 24	—	—	—	-10.2 -28	22 45	23 43	4	11.1
4233	47153	8 09.4	16 29	—	—	—	-10.2 -28	22 45	23 43	1	11.1
4234	47154	8 12.5	16 40	—	—	—	-10.2 -28	22 45	23 43	2	11.1
4235	48547	11 13.4	17 50	—	—	—	-10.2 -28	22 45	23 43	3	11.1

Found Sid X and of combination
watch stopped. Used other sidereal
watch 80

Ending Time
E.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Remarks
				Prints, at 18.65
				MC SC SW MT ST
				Feb. 3 12 -1 33.1 -16.8 +45.4 +05.0 +1.1
				Feb. 4 10 -1 33.1 -17.0 -43.0 +22.2 -0.1
				cloudy in afternoon, light ^{Reset} at sunset.
53 W	16 31	0	6.97 B8 4-4.4	image very fuzzy clouds at 11.45. ^{Reset}
				that. Switched to change over to I-12
			I-25 at	tilt = 23.17 from 23.19
				next prints again at 18.60, working it up pretty
			I-12, set	tilt at 19.45, focus at 26.20. ^{to the point}
			12, 8	clear again.
07 W	14 04	0	6.46 B9 1-2-1	image very fuzzy.
07 W	14 26	0	5.98 A0 1-2-1	looks on image at 23.30.
09 W	16 17	0	6.66 M0 1-2-1	
13 W	16 17	1	7.13 B0 1-2-1	
5 W	11 47	1	6.29 A0 1-2-1	light haze. Sides 1/2.
	17 08	1.12	6.37 A0 1-2-1	Sides 1/2. Sides 1/2. Sides 1/2.

81

Date Tuesday February 7-8 1939 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.	
4235 F	Focus test			I-12	Astron B	010	Galv +1.3	3 pm.		1
4236	HJ 21242	03 20.5 24.6	+28 23 29 42	I-12	"	010	-5.7 +1.1	19 11	20 31	2
4237	30090	04 39.4	+42 09	"	"	"	-5.7 +1.0	20 34	21 22	3
4238	38358	05 40.1	+42 30	"	"	"	-5.7 +1.0	21 25	22 15	4
4239	45192	06 21.0	+32 38	"	"	"	-5.6 +1.0	22 19 ⁴⁴	23 39	1
	64106	07 47.2	+47 38							

Partly cloudy all day. cloudy at dark.

82

Ending Time
E.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
Outside the base.				
<i>Feb. 6</i> ^{sitting 5} _{sitting 9} 12 ^{MC} -1° 33' 7" ^{SC} -18.0 ^{SW} -29.0 ^{M.T.} +23.2 ^{S.T.} -0.1				
Found focus at 26.17. Took that time and at 26.23. about 26.20 best.				
2 00W	+28 30	1-2	7.29 G5 1-1-1	<i>Feb. 7</i> 12 ^{MC} -1° 34.2 ^{SC} -18.8 ^{SW} -47.0 ^{M.T.} +23.4 ^{S.T.} +0.0
1 32W	+42 15	2	7.21 G0 1-1-1	<i>Supp.</i> [Heavy E.P. on H+K] <i>Supp.</i>
1 24W	+42 31	2-3	7.41 K0 1-1-1	" Light haze, slowly thickening.
2 08W	+32 36	2-3	7.43 K0 1-1-	" Haze. Thickening rapidly.
			7.38 K0	Drop in at 120 L. growth
<i>Feb. 8</i> 12 ^{MC} -1° 34.3 ^{SC} -19.2 ^{SW} -39.8 ^{M.T.} +25.1 ^{S.T.} 0.0				

Date Wednesday February 8-7, H-L Julian Day 174

Today Feb 10-11, M Generally clear, some cloudy spells
Sleep and come to wet to work with

Center set at 12.95

Ending Time
EST.

Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS																									
					<p>Check at 11.00 clearing at 11.15. Started to open at 12.00 was ready to start at 12.25 when sky suddenly closed up. Breaching at 2.38. mostly clear at 2.45. - fish from 4.22-4.15 close up again at 4.40. Check at 5.15 closed.</p> <table> <tr> <td></td><td>MC</td><td>SC</td><td>SW</td><td>MT</td><td>ST</td></tr> <tr> <td>Feb 9 12</td><td>-1 34.0</td><td>-19.7</td><td>-33.7</td><td>+25.4</td><td>-0.1^m</td></tr> <tr> <td>Feb. 10 12</td><td>-1 34.5</td><td>-20.4</td><td>-28.2</td><td>+25.6</td><td>+00.0^m</td></tr> <tr> <td>Feb. 11 10</td><td>-1 34.8</td><td>-21.0</td><td>-20.5</td><td>+26.0</td><td>+00.0</td></tr> </table> <p>Unit auroral arc in N, 1 shot 25° A 175°-215° until 22.00 h</p>		MC	SC	SW	MT	ST	Feb 9 12	-1 34.0	-19.7	-33.7	+25.4	-0.1 ^m	Feb. 10 12	-1 34.5	-20.4	-28.2	+25.6	+00.0 ^m	Feb. 11 10	-1 34.8	-21.0	-20.5	+26.0	+00.0
	MC	SC	SW	MT	ST																								
Feb 9 12	-1 34.0	-19.7	-33.7	+25.4	-0.1 ^m																								
Feb. 10 12	-1 34.5	-20.4	-28.2	+25.6	+00.0 ^m																								
Feb. 11 10	-1 34.8	-21.0	-20.5	+26.0	+00.0																								
2 ¹⁶ W	27 06	0	7.21 A2 1-1-1																										

Date Saturday, February 11-12, 1939 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
4241	HD 20277	03 10.5	+31 49	I-12	Astr II	010	-13.8 -6.5	18 50	19 38	2
4242	26367	13 11.5	+30 46	"	"	"	-13.9 -6.6	19 41	20 27	4
4243	30332	04 39.4	+42 09	"	"	"	-13.9 -6.6	20 30	21 22	1
4244	38358	05 40.1	+42 30	"	"	"	-12.9 -6.7	21 25	22 15	2
4245	64106	07 47.2	+47 38	"	"	"	-13.9 -6.6	22 38	23 22	3
4246	64958	07 51.3	+47 15	"	"	"	-13.9 -6.6	23 36	0 26	4
4247	75586	08 45.6	+42 56	"	"	"	-13.9 -6.6	0 30	1 06	1
4248	86162	09 50.7	+45 53	"	"	"	-13.9 -6.6	1 09	2 28	2
4249	93015	10 39.8	+46 56	"	"	"	-13.7 -6.5	2 10	3 16	3
4250	101021	11 32.4	+47 10	"	"	"	-13.8 -6.5	3 11	4 11	4
4251	12466	04 53.1	+43 16	"	"	"	-13.8 -6.6	4 35	5 27	1
4252	135435	15 10.0	+32 09	"	"	"	-13.8 -6.6	5 30		
Focus Test on end of plate										

Monday Feb 13-14 1939 M-L Cloudy all evening

Wed Feb 15-16 Clear from 7:30. Opened clouds 8:15 Very high wind snow

Delay in starting due to spending 45 minutes digging + sawing
out from under some wheels. All wheels with light.

Pointer 15.4

Very windy.

86

Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
1 33 W	+31 58	0	7.05 K0 1-1-1	Clear but overcast. Strong zonal light
2 22 W	+30 54	0-1	7.09 G0 1-1-1	Forth with diff in clock. Good spring.
1 47 W	+42 14	1	7.21 G0 1-1-1	
1 52 W	+42 31	1	7.41 K0 1-1-1	Thin clouds 21 ³⁰ - 2 ⁴⁵ ; 22 ⁵⁰ - 23 ¹⁰
0 40 W	+47 33	1-2	7.38 K0 1-1-1	Very very variable. Fine thin clouds
1 40 W	+44 08	1-2	7.47 K0 1-1-1	
2 20 W	+42 15	2	7.14 K0 1-1-1	
2 00 W	+45 44	2	7.52 K0 1-1-1	
2 33 W	+47 14	2-1	7.31 Fe 1-1-1	Thin clouds
0 00 W	+32 13	2-1	7.47 Fe 1-1-1	Light clouds + 5' higher - dis. 4.30
2 02 W	+43 00	+	7.20 Fe 1-1-1	Light clouds
	+32 02		7.40 K0 1-2	Thin clouds + snow
			8-5	

	M ²	SC	SW	MT	S.T.
<p>Thursday Feb 14-15 H-L Cloudy all evening</p> <p>lowing in in H-L (L) at 12.45 and still strong, snowing lightly</p> <p>at 10.30</p>	Feb. 13	13	-135.1	-21.8	-08.8
				-27.0	0.9
				Best	

Date *Thursday February 16-17, 1939* H-T *Julian Day*

few stars in youth occasionally
too cloudy to open up.

38

Printer set 12.4

Some temp +8°F at start

Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS								
1 52W	+46 56	1. Stage	7.13	K0	1-1-1	Feb. 14	12	-1 35.2	-22.5	-02.1	-26.4	-0.8
	sky gradually filled in.					Feb. 15	12	-1 35.4	-23.1	+03.9	-26.8	-0.8
						Feb. 16	12	-1 35.3	-23.8	+09.2	-26.3	-0.8
1 07W	+42 13	1-2	7.21	G0	1-1-1	light haze						
1 12W	+27 38	1	7.47	K0	1-1-1	light haze						
1 33W	+32 38	1-2	7.43	K0	1-1-1	Stage thickening 2:50						
			7.38	K0		clouded over solid just at start						
						Closed up 11 ¹⁰						
						Feb. 17	12	-1 35.4	-24.2	+13.8	-23.0	-0.8
						Feb. 18	10	-1 35.4	-24.8	+18.2	-22.6	-0.6

Date Sat. Feb. 14 - 1963 H. 507 Julian Day 161[illegible]

Clear Lake, Cal.

Temp control 2nd 21.2

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
	156 ^h	45 32	1	7.49	Ko 1-1-1
		28 46		7.00	Fa 1-1-1 Thinned rapidly during 4 ^h , becoming 1 st Dist. clouded over
					MC SC SW MT ST
					Feb. 20 14 -1 ^m 35. ^s 8 -26. ^s 2 +31. ^s 8 -20. ^s 6 -0. ^m 6

Date *Monday Feb 19-20/1939* M-L Julian Day.

[illegible]

Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
				<p>Tried to open shutters about 17⁴⁵, found them frozen tight. Sawed ice out under lower wheel and managed to pry bottom of shutters open 1 inch with screwdriver. Top still frozen tight. M held L by one leg on top of dome while L sawed ice from one upper wheel. Found other wheel frozen solid with ice. Tried to remove cover of wheel but could only get three screws out. gave up effort at 21.00 hrs. Too bad as night clear.</p>
				<p>Feb. 21 12 -1 36.2 -26.8 +37.2 -18.6 ³ 70.6^m</p>

Date *Wed. Feb 22-23, 1939 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
4258	HD 35522	95 20.2	15 23	I - 12	<i>Astro II</i>	.010	-17.3 -97	18 36	19 46	1
4259	35693	5 21.5	15 11	—	—	—	-17.4 -99	19 49	20 47	2
4260	44904	6 19.3	17 03	—	—	—	-17.4 -97	20 49	22 41	3
4261	59059	7 23.2	15 16	—	—	—	-17.6 -99	22 44	23 30	4
4262	70338	8 16.3	13 57	—	—	—	-17.1 -100	23 33	00 55	1
4263	102056	11 39.6	29 13	"	"	"	-17.1 -100	00 50	02 13	2
4264	105262	12 02.1	13 33	"	"	"	-17.2 -99	02 30	03 36	3
4265	114501-8	14 08.4	29 35	"	"	"	-17.1 -100	03 40	04 40	4

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Pointer at 12.7

Hour Angle End	Declination	Seeing	Ptg. Mag.	Temp in dome at start = +12°	REMARKS																				
0 14 W	15 23	1	7.02 B9	1-2-1																					
1 14 W	15 13	1	6.19 A2	1-2-1	light clouds over most of sky at beginning of exposure. Expanded all but clouds with <u>arc</u> 2000 at start and cleared.																				
2 11 W	17 03	1	6.80 B9	1-2-1	heavy clouds at 21.20 image faint during <u>thoroughly</u> remaining of exposure.																				
56 W	15 14	1	6.07 A0	1-2-1	image faint at 23.20 due to clouds.																				
2 26 W	13 45	1	7.14 A2	1-2-1																					
0 23 W	29 00	1	6.95 A0	1-2-1	Supp. list. light clouds, clear at 01.45, breaking.																				
1 24 W	13 13	1	6.93 B9	1-2-1	clouds just after start.																				
	21 24	1	7.04 A2	1-2-1	clouds, clear at 4.40, clearing at 4.55, closed up later.																				
					Below would not start, apparently too cold.																				
					temp in dome given +8°																				
					<table><tr><td></td><td></td><td>SC</td><td>SW</td><td>MT</td><td>ST</td></tr><tr><td>Feb 23</td><td>12</td><td>-1^m 40^s.8</td><td>-29^s.5</td><td>+45^s.5</td><td>-16^s.1</td><td>-0^m.5</td></tr><tr><td>Feb 24</td><td>12</td><td>-1^m 35^s.0</td><td>-28^s.9</td><td>+54^s.1</td><td>-15^s.7</td><td>-0^m.5</td></tr></table>			SC	SW	MT	ST	Feb 23	12	-1 ^m 40 ^s .8	-29 ^s .5	+45 ^s .5	-16 ^s .1	-0 ^m .5	Feb 24	12	-1 ^m 35 ^s .0	-28 ^s .9	+54 ^s .1	-15 ^s .7	-0 ^m .5
		SC	SW	MT	ST																				
Feb 23	12	-1 ^m 40 ^s .8	-29 ^s .5	+45 ^s .5	-16 ^s .1	-0 ^m .5																			
Feb 24	12	-1 ^m 35 ^s .0	-28 ^s .9	+54 ^s .1	-15 ^s .7	-0 ^m .5																			

Date Fri Feb 24-25 1939 McL 7 Julian Day

Hour	Angle	D
	End	
15	20	4
16	10	1
17	0	1
18	5	6

spent some time brushing snow
from telescope.

Ending Time LST	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
3:21	W 2 ^h 01	42 00	1	7.6 Bred 1,1,1	Brilliant sun (see notes)
0 41	W 1 ^h 20	15 10	1	7.7 Bred 1,2,1	
10 53	W 2 ^h 10	14 57	1	7.1 Bred 1,2,1	
2 54	W 25 ^m	62 13	1	6.5 F0 1,2,1	
					Thick at 11:10
					Still thick with light snow at 3:00
					ME SC SW MT ST
					Feb. 25 10 -1 ^m 34.6 -29.6 +56.9 -12.1 -0.4 ^m
					Feb. 27 12 -1 33.7 -30.9 +09.1 -00.8 -00.0 ^m
					Adv 1 m. Best

Date Monday, Feb 27-28, 1939, M-L Julian Day.

Hour	Angle	End
1	20	1
2	41	1
3	16	1
4	9	13

Reading Time
L.S.T.Hour Angle
End

Declination

Seeing

Ptg. Mag.

REMARKS

Opened dome at 5:30. Temp in dome +36° F. Found some water on upper part of tube and in 8 pockets of centre piece. Wiped it out. We layel opening as things pretty wet and high from several places. By 20^h temp in dome was 29° and things drier. Circled safe to open, lay rather large but clear.

17 W 17 02 0 6.80 B9 1-2-1

Pointer at 21.27

46 W 15 26 0 6.97 B8 1-2-1

2¹⁴ W 13 48 0 7.14 A2 1-1-1

Large thickening, quite dark at 0.1-1. Remained thick, cleared at 1.30.

			MC	SC	SW	MT	SC
						^s	^m
Feb. 28	12	-1	33.6	-31.2	+13.1	-00.8	+00.0
Mar. 1	13	-1	33.4	-31.4	+17.6	-01.0	+00.1

Date Wednesday March 1-2/39 Hd-L Julian Day

Hour	Angle End	D
41	"	-
42	"	2
43	"	3
44	"	4
45	"	5
46	"	6
47	"	7
48	"	8
49	"	9
50	"	10
51	"	11
52	"	12
53	"	1
54	"	2
55	"	3
56	"	4
57	"	5
58	"	6
59	"	7
60	"	8
61	"	9
62	"	10
63	"	11
64	"	12
65	"	1
66	"	2
67	"	3
68	"	4
69	"	5
70	"	6
71	"	7
72	"	8
73	"	9
74	"	10
75	"	11
76	"	12
77	"	1
78	"	2
79	"	3
80	"	4
81	"	5
82	"	6
83	"	7
84	"	8
85	"	9
86	"	10
87	"	11
88	"	12
89	"	1
90	"	2
91	"	3
92	"	4
93	"	5
94	"	6
95	"	7
96	"	8
97	"	9
98	"	10
99	"	11
100	"	12

cleaning from 11.30

100

Pointers set 13.25

Ending Time
E.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp.
144 W	42 21	0	6.90	A3	1-2-1
104 W	23 39	0	6.45	A2	1-2-1
148 W	30 39	0	7.52	A2	1-2-1
032 W	16 19	0	7.55	G0	1-2-1
012 W	16 07	0	7.33	G0	1-2-1

REMARKS

light clouds about 500.

Scattered clouds, at times quite thick.

MC S SW NE T
 Mar 2 12 -1° 28' -31.4 +22.0 -01.8 10.0

Date Thursday March 2-3, 1939 H-B-T Julian Day.

Cloudy

Printer at 19.4

Ending Time LST.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS																												
	0 20 W	+16 39	2	6.15 A2 1-2-1 for M	Light clouds most of time																												
	1 12 W	+15 51	2	7.16 B9 2-2-1 for M	Stage + light cloud																												
		+15 17		7.39 A0 1-	Shall be back, 11 + bright clouds clouds almost from start. Mostly very bright as slit during cloudy Closed up 11 ¹⁵ Partly cloudy, much at 10, thick in at 11 Thick at 2.30 still thick at 3.00																												
					<table><tr><td></td><td></td><td>MC</td><td>SE</td><td>SW</td><td>MT</td><td>ST</td></tr><tr><td>Mar. 3</td><td>12</td><td>-1 32.9</td><td>-31.6</td><td>+27.4</td><td>-00.4</td><td>+0.2</td></tr><tr><td>Mar. 4</td><td>10</td><td>-1 32.5</td><td>-31.4</td><td>+30.9</td><td>-03.0</td><td>+0.1</td></tr><tr><td>Mar. 6</td><td>13</td><td>-1 32.1</td><td>-31.5</td><td>+31.5</td><td>-04.0</td><td>+0.1</td></tr></table>			MC	SE	SW	MT	ST	Mar. 3	12	-1 32.9	-31.6	+27.4	-00.4	+0.2	Mar. 4	10	-1 32.5	-31.4	+30.9	-03.0	+0.1	Mar. 6	13	-1 32.1	-31.5	+31.5	-04.0	+0.1
		MC	SE	SW	MT	ST																											
Mar. 3	12	-1 32.9	-31.6	+27.4	-00.4	+0.2																											
Mar. 4	10	-1 32.5	-31.4	+30.9	-03.0	+0.1																											
Mar. 6	13	-1 32.1	-31.5	+31.5	-04.0	+0.1																											

Date Monday, Mar 6-7, 1939, M-L Julian Day

[illegible]

109

Cloudy first part of evening. Started to
clear about 19.30

Ending Time L.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Pointer at	REMARKS
	49W	15 33	1	6.69 B9	1-2-1	image stayed poor as started to focus at 20.25. fairly high wind, image shows a lot of motion, clouds almost finished by 21.30
	45W	13 50	1	7.14 A2	1-2	intermittent clouds wind rising again, wind became so strong that image rarely on at all. so general cloud dome for a while. Remained thick. Clouds lifting first on hour at 23.20
						<div> <div>MC</div> <div>SC</div> <div>SW</div> <div> <div>MT</div> <div>ST</div> </div> </div>
Mar. 7 12						-1 32.1 -31.7 +45.7 -03.4 +0.0

Date Tuesday, March 7-8, 1939 H-L Julian Day

[illegible]

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
2	¹⁰ W	+42 15	0	7.21 G0 1-2-1	almost no condensation of image Sagittarius 13
1	⁴⁸ W	+32 38	0	7.43 K0 1-2-1	Light clouds but 15"
0	³⁷ W	+42 14	0	7.14 K0 1-2-	Light clouds from East. Gradually thickened up.
				6.99 G5	Temp. 8
					Closed up 23 ²⁰ still thick.
					Mar 8 13 -1 31.3 -31.5 +47.7 -13.0 -0.2

Date Wed Mar 8-9, 1939 Hd- Julian Day

[illegible]

Gradually thinning after sunset?

108

Printer at 16.5

Ending Time L.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
15	W 1 ^h 37	13 08	1	7.09 F8 12.1	Hazy and clouds Cloud 11.00
					<div> <div>MC</div> <div>SC</div> <div>SW</div> <div>MT</div> <div>ST</div> </div> <div> <div>Mag 12</div> <div>-1^m 31.0</div> <div>4-31.3</div> <div>+49.7^s -31.3</div> <div>-11.5</div> <div>.00^m</div> </div>

Date Thursday Mar 9-10, 1939, 11-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.
4287	H.D. 93847	16 44 9	56 46	I-12	Cele II	.010	-	D 12 -	2
4287	HD 140131	15 27 -	44 11	-	-	-	-	S 07 L 05	3

Friday March 10-11, 1939 H-T

Thick haze most of evening started to clear once around 8⁰⁰ (hazy) but filled in again thick & fog starting up thinning but still hazy 10⁰⁵ - 11³⁰ Cleared slowly till 1

Pointer at 16.7

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS																																								
					Cloudy first part of night clearing at 22.00 Started to clear at 22.30 but clouded over again Clear at 23.15 Spent 40 minutes scraping dirt off tracks as shutters wouldn't open Setting 5 - Cloudy tomorrow, moved at 2.00 1.17 W 44 03 2 740 Fo 1-2-1 Setting 9 Mostly cloudy with a few clouds spells till 5.00 Shutters almost closed when I heard a noise like breaking wood. Found that one of the plywood panels of window shutter had come loose. Took it out and told me closed and replaced shutter.																																								
					<table><tr><th></th><th></th><th></th><th>N.C</th><th>SC</th><th>SW</th><th>MT</th><th>ST</th></tr><tr><td>Jan. 10</td><td>12</td><td>-1</td><td>30.7</td><td>-31.4</td><td>+53.8</td><td>-09.0</td><td>-00^m</td></tr><tr><td>Mar. 11</td><td>10</td><td>-1</td><td>30.2</td><td>-31.3</td><td>+58.2</td><td>-09.2</td><td>+0.1^m</td></tr><tr><td>Mar. 13</td><td>12</td><td>-1</td><td>29.9</td><td>-30.6</td><td>+00.6</td><td>-25.8</td><td>+0.1^m</td></tr><tr><td></td><td></td><td></td><td></td><td></td><td>Reset</td><td>Reset</td><td></td></tr></table>				N.C	SC	SW	MT	ST	Jan. 10	12	-1	30.7	-31.4	+53.8	-09.0	-00 ^m	Mar. 11	10	-1	30.2	-31.3	+58.2	-09.2	+0.1 ^m	Mar. 13	12	-1	29.9	-30.6	+00.6	-25.8	+0.1 ^m						Reset	Reset	
			N.C	SC	SW	MT	ST																																						
Jan. 10	12	-1	30.7	-31.4	+53.8	-09.0	-00 ^m																																						
Mar. 11	10	-1	30.2	-31.3	+58.2	-09.2	+0.1 ^m																																						
Mar. 13	12	-1	29.9	-30.6	+00.6	-25.8	+0.1 ^m																																						
					Reset	Reset																																							
					Unhazed over rapidly. Temperature 19.5																																								

Date Monday, Mar 13-14, 1939, M-L Julian Day 1

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.
4288	HD. 43044F	6 90	14 38	I-12	Astro II	.010	-5.3 +1.2	20 09	21 35
4289	55283	7 7.2	15 21	—	—	—	-5.4 +1.2	21 43	22 50
4290	" 124587-B	14 09.4	29 35	"	"	"	-5.4 +1.2	01 35	02 55
4291	" 140139	15 37.0	44 11	"	"	"	-5.4 +1.2	03 03	04 29

Printer at 21:30

Ending Time EST.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
					Clouds at sunset cleared later. Found dome pretty well dark for writing and it turned gone. Got new one. Wrote notes on it. Three packets of Zentile sitting through clouds. Found both sidereal watches I got by one hour. Considerably delayed by this misfortune.
22:00	28 W	14 38	2	6.88 B9	1-2-1 thick again but 20:30 better again 20:55.
22:00	47 W	15 18	1-0	7.39 A0	1-2-1 changed sitting from middle of dome. Cloudy again at 22:50.
					Sky remaining mostly thick until 1:00 then thinned out, at 1:15 reasonably clear.
	0 ¹⁰ E	29 24	1-2	7.04 F ₀ A ₂	1-2-1 haze, some
	0 ⁰³ E	44 02	1	7.40 F ₀	1-2-1 haze, light clouds, sky filling in at dawn
					MC SC SW MT ST Mar 14 12 -1.29.6 -31.9 +03.9 -24.3 +0.1 Reset Reset

Date Tuesday, March 14-15, 1939 H-L

Julian Day.

[illegible]

Date Wed Mar 15-16, 1938 401-L Julian Day.

[illegible]

Date Thursday, March 16-17, 1939 14-T Julian Day 14-T

430 T_1

Friday Mar. 17-18 M

2nd plate for comparison. Not too

Date Fri Mar 17-18, 1959 Hd-T Julian Day

End

120

Pomier at 15.1

Ending Time L.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
0 39W	46 08			7.13 A ₂ 1-2-1	For MT
1 28W	23 58	2-1	6.45	A ₂ 1-2-1	Haze
1 30W	45 34	2-1	7.43	F ₂ 1-2-1	Haze - also -
1 10W	28 01	2-1	7.22	A ₂ 1-2-1	Thick haze 2.00 Found holders 3 empty after exp, though hit had been labelled as containing exposed plates Thick dark, light snow from 4.00 -
<div style="display: flex; justify-content: space-between; align-items: flex-end;"> <div> <p>Max. 18 10</p> </div> <div> <p>MC -128.3</p> </div> <div> <p>SC -33.7</p> </div> <div> <p>SW +23.3</p> </div> <div> <p>MT₃ -16.6</p> </div> <div> <p>ST_m +0.3</p> </div> </div>					

Date Saturday, Nov 18-19 1939 M-T Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
4305	HD. 34054	5 9.5	14 56	I- 12	Astra II	010	-12.8 -56	19 21	21 5	4
4306	35283	7 7.2	15 21	-	-	-	-13.0 -57	21 10	23 10	1
4307	82191	9 25.4	27 50	-	-	-	-13.0 -57	23 15	00 19	2
4308	93504	11 18.5	17 42	-	-	-	-13.0 -57	0 30	1 56	3
4309	124586	14 09.4	31 40	-	-	-	-13.0 -57	2 00	3 20	4
4310	140139	15 57.0	44 11	-	-	-	-12.8 -56	3 24	4 24	1
4311	144239	16 02.8	13 36	-	-	-		4 18	5 54	2

Pontes at 15.63

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
4 5	3 19W	15 01	0-0	7.27 B9	1-2-1 <i>Platymantoid 4306</i>
23 6	3 27W	15 18	0-0	7.39 A0	1-2-1 <i>very covered by fast drifting clouds just after sunset</i>
23 6	2 16W	27 40	0	6.59 A0	1-2-1 <i>Numbered 4307</i>
23 6	2 01W	17 29	0-0	7.09 A2	1-2-1
23 6	0 36W	31 30	0	7.25 A0	1-2-1
23 6	0 12W	44 62	01-2	7.40 F0	1-2-1
23 6	1 16W	13 21	1	7.52 F2	1-2-1
<div> <div>MC</div> <div>SC</div> <div>SW</div> <div>MT</div> <div>ST</div> </div>					
<div> <div>max 20 12</div> <div>-1 27.3</div> <div>-34.4</div> <div>+34.6</div> <div>-11.0</div> <div>+0.6</div> </div>					

Date Monday, Mar 20-21, 1939 M-L Julian Day

[illegible]

124

Ponter at 18.01

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
					Considerably delayed in getting as found <u>every inch</u> of telescope covered with snow
2 35	2 52 W	14 35	0	(6.57) 89	1-2-1
2 35	0 43 W	32 31	2-1	6.58 A0	1-2-1
	1 01 W	47 16	2-0	7.36 A2	1-2-1 seeing unsteady.
	1 18 W	17 40	0-1	7.52 A0	1-2-1
	0 44 E	12 16	0-1	6.20 A0	1-2-1
	0 23 W	13 31	0-1	7.52 F2	1-2-1
5	0 45 E	13 05	0-1	6.46 A0	1-2-1
					<div> <div>M.C.</div> <div>SC</div> <div>SW</div> <div>M.T.</div> <div>S.T.</div> </div>
					<div> <div>Mar. 21</div> <div>12</div> <div>-1° 26.8</div> <div>-34.8</div> <div>+34.1</div> <div>-09.0</div> <div>+0.1</div> </div>
					<div> <div>Mar. 22</div> <div>12</div> <div>-1 26.4</div> <div>-35.5</div> <div>+40.5</div> <div>-08.8</div> <div>+0.2</div> </div>
					<div> <div>not recorded, alt was 19.45</div> <div> <div>4/4</div> <div>23.0</div> <div>23.2</div> <div>23.4</div> </div> </div>
					<div> <div>Outside this base</div> <div> <div>4/4</div> <div>23.0</div> <div>23.2</div> <div>23.4</div> </div> </div>
					<div> <div>Started to open 11.00 Thinks 11.20</div> <div> <div>23.5</div> <div>23.7</div> </div> </div>

125

Date Friday, Mar 24-25, 1939 M - T Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
4318 F3				<i>2 in off</i> I-25	<i>focus at</i>		23.7	<i>tilt at</i> 23.15		
							<i>Abn. Rel.</i>			
4319	HD. 43044 P	6 9.0	14 38	I-12	astra II	.010	+11 +72	19 19	21 01 3	
4320	77986	9 0.6	16 15	—	—	—	+11.6 +72	21 04	23 02 4	
4321	99004	11 18.5	17 42	—	—	—	+11.0 +72	23 05	00 15 1	
4322	108714	12 24.3	17 53	—	—	—	+11.0 +74	0 24	1 44 2	
4323	114587 S	19 09.4	24 35	—	—	—	+11.0 +73	1 47	2 43 3	
32 4324	124586	14 09.9	31 40	—	—	—	+11.0 +73	2 47	3 41 4	
32 4325	144534	16 02.8	13 56	—	—	—	+11.0 +73	4 05	5 41 1	

MC SC SW MT ST
 Mar 23 12 -1^m 25.7 -35.9 +44.1 -10.1^s 00.0^m
 Mar 24 12 -1 25.8 -36.6 +47.4 -10.6^s +00.1^m
 Pointer at 26.44 126

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
	Put on I-12.				set. left to 19.45. Look from tent at 26.20 setting 5 26.30 setting 8. 26.35 seemed satisfactory, left it at. sky setting right clouds after sunset
2	39W	14 38	1	(6.80) B9	1-2-1 somewhat hazy.
1	43W	16 07	1	7.25 B9	1-2-1 large thicker, still very thin visible.
0	44W	17 30	1	7.09 A2	1-2-1
1	07W	17 40	1	7.52 A0	1-2-1
0	22W	24 24	1	7.04 A0	1-2-1
1	30W	31 30	1	7.25 A0	1-2-1
1	29W	33 29	1	7.52 F2	1-2-1 light haze. Clouds 5-20
<div> MC SC SW MT ST Mar 25 10 -1 25.9 -37.2 +49.8 -08.2^s +0.3^m Mar 26 12 -1 26.8 -39.9 -19.9 -02.0^s +0.6^m Reset Reset +5.0 ↑ correction at 10 (J.F.H) </div>					

727

Date Mon Mar 27-28, 1939 H-B Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Shit	Temperature <i>above below</i>	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
	HD 47359	06 35.3	28 21	I-12	Astron I	010				1
32 4236	91130 HD 47359	10 26.2	32 54	I-12	Astron I	010	-5.4 +2.0	10 07	10 35	1
4237	HD 96528	11 02.3	23 52	"	"	"	-4.6 +2.0	10 39	11 54	2
4258	HD 19302	11 20.5	27 19	"	"	"	-4.7 +2.0	12 07	1 10	1
4259	HD 102555	11 43.2	36 59	"	"	"	-4.8 +2.0	1 53	2 53	1
4260	HD 119179	12 32.9	42 36	"	"	"	-5.0 +2.0	2 45	3 55	1
4291	HD 129583	19 11.2	28 12	"	"	"	-5.0 +2.0	4 02	5 32	1
	H.D. 153.363		37°							

123

[illegible]

Date Tuesday March 28-29, 1939 H-L Julian Day.

[illegible]

130

Ending Time
E.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
	+14 36		(6.33) B9		for M Seeing too poor to sufficiently read the
1 15 W	+23 19	0-1	5.79 B8	1-2-1	for M " " " " " " " " " " " "
2 31 W	+22 28	2-1	7.43 K0	1-2-1	Supp. " " " " " " " " " " " "
2 25 W	+44 28	2-1	7.47 K0	1-2-1	" " " " " " " " " " " "
2 01 W	+42 13	1	7.14 K0	1-2-1	" " " " " " " " " " " "
1 56 W	+45 44	1-2	7.50 K0	1-2-1	" " " " " " " " " " " "
1 31 W	+32 14	1-2	7.47 F2	1-2-1	" " " " " " " " " " " "
0 30 E	+51 54	1-2-1	7.10 A2	1-2-1	" " " " " " " " " " " "
0 04 E	+53 06	1-2	7.46 K0	1-2-1	" " " " " " " " " " " "
0 14 E	+43 38	1-2	7.20 A2	1-2-1	" " " " " " " " " " " "
<div> <div> <div>MC.</div> <div>SC.</div> <div>S.W.</div> <div>M.T.</div> <div>S.T.</div> </div> <div> <div>Mar. 29</div> <div>12</div> <div>-1 25.1</div> <div>-39.5</div> <div>-11.1</div> <div>+02.3</div> <div>+2.9</div> </div> <div> <div>"</div> <div>30</div> <div>12</div> <div>-1 27.0</div> <div>-40.0</div> <div>-07.6</div> <div>+02.5</div> <div>+2.9</div> </div> <div> <div>Mar. 31</div> <div>12</div> <div>-1 24.4</div> <div>-40.3</div> <div>-05.0</div> <div>+02.0</div> <div>+3.2</div> </div> <div> <div>Apr.</div> <div>1</div> <div>10</div> <div>-1 25.1</div> <div>-41.7</div> <div>-06.7</div> <div>+01.8</div> <div>+2.8</div> </div> </div>					

Date Sat ap 1-2, 1939 Hds - T Julian Day 173

[illegible]

Rain earlier Clearing gradual Cloudy from 23.50
 Sunrise at 23.3

732

Ending Time L.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
10 35	W 1 ^h 15 ^m	42 20	2	6.90	H ₂ 1, 2, 1 Suff list.
1 35	W 52 ^m	23 38		6.45	H ₂ 1, 2, 1
1 50	W 54 ^m		2	7.43	F ₂ 1, 2, 1 Suff Scattered clouds
2 10	1 35 W	28 02	1	7.22	A ₂ 1-2-1 Clouds 1.4- with high wind - cloud shutters - Meteorology
		16 08		7.33	Q ₂ 0.1 Clouds 4.05. snow, rain 4.00 - cloud shutters
<div> <div>MC</div> <div>SC</div> <div>SW</div> <div>MT</div> <div>ST</div> </div> <div> Apr. 3 12 -1 24.6 -42.6 +04.0 +04.8 +03.1 </div>					

Date Monday, Apr 3-4, 1939 M-L Julian Day.

[illegible]

Clearing & sunset - fairly strong wind
 Portent 20.20 REMARKS

Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
2 48W	14 38	2-1	(6.80) B9	1-2-1	Pentest 20.20
0 46W	16 53	3	6.93 A5	1-2	P ⁺ clamp sticking a bit
					MC SC SW H.T. S.T.
					Apr. 4 12 -1 ^m 24 ^s .0 -43 ^s .0 +06 ^s .4 +05 ^s .6 +3 ^m .2

135

Date *Tuesday, April 4-5, 1939, 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
4348	HD 49949	06 45.8	+44 58	T-12	Act II	010	-7.3 -0.5	19 ²⁸	19 ⁵⁸	3
4349	64136	07 47.2	+47 38	"	"	"	-7.4 -0.5	20 ⁰²	21 ⁰⁰	4
4350	86166	09 51.7	+45 53	"	"	"	-7.3 -0.6	21 ⁰³	22 ⁰³	1
4351	93075	10 39.8	+57 26	"	"	"	-7.5 -0.6	22 ⁰⁸	23 ¹⁴	2
4352	99983	11 25.1	+57 17	"	"	"	-7.5 -0.6	23 ¹⁶	01 ¹⁵	3
4353	113049	12 55.9	+76 00	"	"	"	-7.3 -0.6	00 ²⁴	01 ¹⁰	4
4354	112734	12 53.8	+28 52	"	"	"	-7.2 -0.6	01 ¹⁵	02 ²⁵	1
4355	135435	15 10.0	+32 09	"	"	"	-7.2 -0.6	02 ²⁹	03 ³⁹	2
4356	106935	18 00.5	+29 56	"	"	"	-7.2 -0.6	03 ⁴⁵	05 ¹⁵	3
Wed Apr 5-6				Hel-L	Cloudy & snow					
Thurs 6-7				Hel-T	Clearing 8:30 to 9:00 Thick again 9:30					
					Clouds 12:00 - 1:00					

9.30

Date Friday, April 7-8, 1939 H-T Julian Day.

[illegible]

Date Saturday, Aug. 8-9, 1939 M-T Julian Day

4 11 W
 2 11 W
 33 4
 1 11 W
 2 11 W
 3 11 W

140

Pointer at 21.17

Reading Time LST.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
4 00 W	15 23	2 0	7.02	B9	1-2-1	Clear just before sunset.
2 11 W	32 55	2 1	6.66	A0	1-2-1	Very both chair and wt. on spectrograph.
1 33 W	47 10	2	7.36	A2	1-2-1	Bright coronal zone near N. Hazy at 20.50
1 13 W	46 49	2	6.46	A0	1-2-1	very faint mottles
2 31 W	46 48	2 7	6.74	Pg	1-2-1	Thin of primary stage of wide double in the photos.
2 07 W	31 28	2 1	7.25	A0	1-2-1	2nd serial not light enough
	37 43	2	6.66	A0	1-2-1	Plates 435 ^{435.7} - 436 ^{436.7} seemed of good flatness and light.
						Plates 437 - 438 then usually thick

Julian Day.

Hour Angle
End

192

Ending Time
E.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp.	REMARKS
9:24 1 2 ^m W	27 41	3-2	6 95	F5	$\frac{1}{2} \frac{1}{2} \frac{1}{2}$	
9:32 2 39 ^m W	30 23	2-1	6 82	A5	$\frac{1}{2} \frac{1}{2} \frac{1}{2}$	
9:46 3 42 ^m W	27 51	2	6 99	A2	$\frac{1}{2} \frac{1}{2} \frac{1}{2}$	
9:54 4 17 W	29 12	3-2	7 11	A2	$\frac{1}{2} \frac{1}{2}$	clouded 11 ¹⁰ -
			7.21	F2		
Apr 10-11						
						MC SC SW MT ST
						Apr. 11 12 -1 22.6 -47.2 +40.3 +08.5 ^s +3.6 ^m

143

Date Tuesday, April 11-12, 1939 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.
4370	HD 93859	10 45.0	+57 07	I - 12	Astr. II	set 61.9	-1.3	22 56	23 26
4371	93875	10 45.1	+59 51	"	"	"	-1.4	23 29	23 55
4372	103399	12 22.1	+72 29	"	"	"	-1.3 +43	23 58	00 50
Wed Apr 12-13, 1939 M-L									
Snow falling in afternoon; clouds after sunset. Clear for short time.									

Date Thurs April 13-14, 1939 14d-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
4373	14D 84123	09 37.8	42 31	J-12	Antia 3	0 10	-2.5 +3.2	8 43	9 33 4	11 01
- 4374	4D 96528	11 02.3	23 52	"	"	"	-2.5 +4.0	9 38	10 18 1	11 02
4375	4D 102555	11 43.2	28 59	"	"	"	-2.5 +4.0	10 22	11 52 2	11 15
4376	4D 124883	14 11.0	28 12	"	"	"	-2.5 +4.0	11 58	11 42 3	11 02
4377	132161	14 57.4	16 26	"	"	"	-2.6 +4.0	1 17	2 51 4	11 00
4378	146317	16 22.1 22.7	16 12	"	"	"		3 01		1

196

			MC	SC	SW	MT ^s	ST ^w
Apr. 14	10	-1	21.2	-48.3	+49.1	+11.5	+3.6
Apr 15	10	-1	21.3	-49.0	+55.1	+11.2 ^s	+3.8 ^w

Date Saturday April 15-16, 1939 H-T

Julian Day

[illegible]

Delay in starting because focusing motor would not run; had to bring telescope down and turn motor by hand a few times; apparently OK now.

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
2 36	W	+47 33	0	7.38 K0 1-2-1	mirror figure very poor.
2 34	W	+42 15	0	7.14 K0 1-2-1	mirror improving; seeing still poor.
2 00	N	+57 15	1	7.31 F0 1-2-1	
2 38	EW	+57 04	1-2	7.24 F0 1-2-1	
2 44	W	+57 54	2	7.47 F2 1-2-1	
1 18	W	+58 06	2-1	7.46 K0 1-2-1	
1 33	W	+58 37	2-1	7.20 A2 1-2-1	
					10-10

Date Sunday April 16-17 Y-1

Julian Day

[illegible]

p.m. 22.8

Ending Time
R.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp	REMARKS
1 ^h 42 ^m W	27 40	1 poor	6.95 FS	1/2 1/2 1/2	clouds at horizon
1 08 W	27 51	1	6.99 A ₂	1/2 1/2	nothing much after 10 ¹⁵
			7.21 F ₂		
					Sky still hopeless at 1.30, clouds Longuete.
					<div> M.R. SC SW HT ST </div>
					<div> Apr. 17 12 -1 20.6 -49.2 +10.4^s +15.0^s +3.7^m +04.9 - adv. Am. </div>
					Apr. 17-18 rain - sun for while about 12 - rain
					<div> Apr. 18 12 -1 20.3 -49.5 +10.8 +14.7^s +3.9^m </div>
					<div> Apr. 19 13 -1 20.3 -50.1 +16.3 +14.2 +3.9 </div>
					<div> Apr. 20 14 -1 19.7 -50.4 +18.1 +13.6^s +4.1^m </div>

short time at midnight then
rain again

Date Thursday, April 20-21, 1939, H-T Julian Day.

[illegible]

Clouds: air most of day; clearing late afternoon
 much water in main casting - wind day
 Temp at 26.6

152

Ending Time L.S.T.	Hour Angle End		Declination	Seeing	Ptg. Mag.			REMARKS
	2	²⁷ W	+44 10	2-3	7.47	K0	1-2-1	Light clouds occasionally.
	2	⁰² W	+45 42	2-1	7.58	K0	1-2-1	Clouded, no wind ⁵⁵ - ¹⁵ ; later from 1000 ft. = " "
	1	⁵⁶ W	+44 55	2	7.14	F0	1-2-1	Heavy clouds
	11	W	+43 05	3-2	7.20	F3	1-2-1	Heavy
			+43 05	2-1	7.10	A2	1-2-1	Heavy clouds from 1000 ft. = " "
								<div>MC SC SW <u>MT</u> ST.</div> <div>Apr. 21 12 -1 19.9 -50.9 +19.6 +14.1^s +4.1^m</div> <div>" 22 10 -1 20.0 -51.4 +22.6^s +13.0 +4.3^m</div>

153

Date Sat April 22-23, 1939 td- Julian Day

[illegible]

159

[illegible]

Date Tuesday, Apr. 24-25, 1939, M-L Julian Day 2443800

[illegible]

156

Clouds after sunset - Clearer later

Hour Angle End	Declination	Seeing	Ptg. Mag.
2 27W	57 15	0	731 Fo

Printer at 13.24 REMARKS 2nd fly in
 Bright auroral rays in north at 20.00. Then sharp rays
 in 4th sec. coming to definite form at 8^h 10^m 42^{sec} at
 20.15. Brightest part of 21st sec. then put in H
 aligned. Head and feet very much at right angles
 at 20.40. (rotation 1910) ^{3rd H}
 very hazy - image large and fairly
 visible. Sides of thin to remain
 open.
 Closed down at 23.30.
 Done good and clear with
 some difficulty - small ticks.
 Still hazy at 100.

Date *Tuesday, April 25-26, 1939, 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
4395	HD. 93075	10 39.8	+57 26	I-12	Ast. II	set 010	+8.0 +14.1	20 15	22 45	2
Wed	Apr 26-27	1939	Hd - L	Started to Zen at sunset but sky thickened, still thick 10.10 Note: Stronger by dawn had Partly clear again 11.11.30						Tuffed
Thurs	Apr 27-28	1939	Hd - L	Cloudy						

Thick haze early evening; slowly clearing.

158

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
	2 ⁰⁰ W	+57 14	0-1	7.31	F0 1-2-1	Much trouble with haze + clouds. Skid at star. Clouds up 23 ³⁰ .
Island						MC SC SW MT ST
Island	<u>Tophead</u>					Apr. 26 12 -1 ^m 18.3 -53.0 +27.8 +13.8 +4.5 ^m
						Apr 27 12 -1 ^m 18.4 -54.5 +24.3 ^{reset.} -0.6 ^b ^{stopped} -
						Apr. 28 12 -1 19.4 -55.5 +29.5 -01.9 ^b 00.9 ^m Reset

Date Fri. Apr. 28-29, 1939 Hal-T Julian Day

[illegible]

160

Ending Time
E.S.T.Hour Angle
End

Declination

Seeing

Ptg. Mag.

REMARKS

W 1^h 54 11 50 0 6.74 FO 1,2,1W 55^m 23 40 0 6.45 AZ 1,2,1W 1^h 35 30 38 0 7.52 AZ 1,2,1

W 0 55 0.1 7.22 AZ 1,2,1

Found plate holder attached to back

W 1 45 16 17 1.0 7.55 GO 1-2-1

W 0 06 57 04 1.0 6.61 AZ 1-2-1

E 0 13 57 57 1.0 6.9 P40 1-2-1

not temp change

MC SC SW M.F. ST

Apr. 29 10 -1 28.0 -54.5 +30.2 -02.0 -0.8

Date *Saturday, Apr. 29-30, 1939 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.
							<u>blue</u> <u>blue</u>		
4402	HD 97244	11 6.5	14 56	I-12	Neutra II	010	+5.5 +11.8	20 18	21 20 1
4403	103478	11 50.0	47 01	—	—	—	+5.5 +11.7	21 26	22 54 2
4404	110500	12 37.5	46 25	—	—	—	+5.4 +11.8	22 58	23 02 3
4405	140137	15 37.0	44 11	—	—	—	+5.5 +11.8	20 07	1 31 4
4406	144839	16 02.8	13 26	—	—	—	+5.4 +11.8	1 34	3 24 1
4407	180316	14 11.0	27 46	—	—	—	+6.5 +11.8	3 27	4 31

Partial
21 h
1.5

Aug
0.7 0.7 0.7
0.3
0.3

Ending Time
E.S.T.

Hour Angle
End Declination Seeing Ptg. Mag.

Pointer at 29.92 REMARKS

Cloud at sunset. Clear later. Cassiopeia not visible
not function. Replaced barrel set fuse. Light
then may have been trouble for sunset night.
light drops over most of sky at 20.40 - on all off to upper
clouds delayed setting. Clouds in very early morning
foggy

0 22 W	14 45	1	6.43	A5	1-2-1
1 12 W	46 50	1	6.79	B9	1-2-1
1 35 W	46 14	2	7.00	A2	1-2-1
0 09 W	44 02	2.1	7.40	F0	1-2-1
1 31 W	13 29	1	7.52	F2	1-2-1
0 29 E	27 50		6.64	P2	1-2-1

Seeing was rather

Julian Day.

[illegible]

A_0	0	G_0	.56
A_5	.14	G_5	.98
F_0	.28	K_0	1.00
F_8	.42	K_5	1.18
		M	1.4

[illegible]

Date Monday, May 1-2, 1939 M-L Julian Day.

[illegible]

766.
Ground heat still on in photograph. Pointer
off scale but no damage seems to have resulted

Date Tuesday, May 2-3, 1939, 17-L

Julian Day

[illegible]

169

Date Wed May 3-4, 1939 Hel-C Julian Day

[illegible]

770

Pointer at 31.3

Ending Time EST.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS	
9 09	W 1 ^h 51	42 20	1	6.90	A3	1, 2, 2
10 03	W 1 ^h 29	23 38	1	6.45	A2	1, 2, 1
10 03	2 ⁰³ W	45 33	1	7.43	F2	1, 2, 1
10 03	2 ¹¹ W	28 01	1-0	7.22	A2	1-2-1
10 03	1 ³³ W	16 08	1	7.33	G0	1-2-1
10 03	1 ²⁵ W	57 05	1-2	6.51	F2	1-2-1
						spots <u>3</u> min. - heavy, light clouds
						clouds near end of frame
						<div> <div>MC</div> <div>SC</div> <div>SW</div> <div>M.T. S.T.</div> </div>
						<div> <div>May 4</div> <div>09</div> <div>-1 16.9^s</div> <div>-56.7^s</div> <div>-09.0^s</div> <div>-03.0^s +0.5^m</div> </div>
						<div> <div>May 5</div> <div>10</div> <div>-1 16.4</div> <div>-57.1</div> <div>-04.4^m</div> <div>-03.6 +0.5</div> </div>

Cloudy at sunset cleared later

Ending Time EST.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Pointer at H. 18	REMARKS
22 43	2 03 W	47 10	1	7.36 A2	1-2	hazy clouds filling in from W at 20.40. - image nearly gone after this time.
					$\frac{12}{8}$	
						remained thick - mist coming up
						closed down at 23.00. Sun
						Hazy, clouds mostly thick

173

Date Saturday, May 6-7, 1939 H-T

Julian Day

[illegible]

about 200+ visitors, mostly children!

showed X Lewis, and M3 with 74-w.

779

N showed M44. Diameter 4 inch. Brilliant across much of evening. Uncomfortably warm in dome early evening.

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
2 32	W	+41 35	2-3	7.26	F51-2-1
1 57	W	+69 26	2-1	7.06	A01-2-1
1 30	W	+76 38	3-2-1	7.55	A21-2-1
1 09	W	+43 36	2	7.20	A21-2-1
				14.14	

Sept 157

Seeing was to end of day

Partly cloudy 3 30 - 4 15

Julian Day

[illegible]

776

Tree burning mirror. n.g. must as 100.

Ending Time L.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp.	REMARKS
15	18 ^m E	47 11	4	659 F2	1/2 1/2 1/2	
17	16 ^m W	27 02	3	721 F2	1/2 1/2 1/2	
	26 ^m W	49 21	3	66 K2	1/2 1/2 1/2	
	25 ^m W	42 29	2	754 A2	1/2 1/2 1/2	
	1 ⁵⁵ N	35 18	1	700 K0	1/2 1/2 1/2	
	1 ²⁵ N	47 41	2-1	658 A0	1/2 1/2 1/2	
	1 ¹⁰ W	32 40	1-2	726 K0	1/2 1/2 1/2	Large
	1 ¹² W	27 52	1	639 K2	1/2 1/2 1/2	
						<div> <div>May 8</div> <div>10</div> <div> <div>MC</div> <div>-1 25.5</div> </div> <div> <div>SE</div> <div>-58.8</div> </div> <div> <div>SW</div> <div>+05.0</div> </div> <div> <div>MT</div> <div>-10.9</div> </div> <div> <div>ST</div> <div>+0.4</div> </div> </div>

Date Monday May 8-9, 1939, M-L Julian Day

[illegible]

Changed form of *Staph. nigr.*

26.28 26.28

Closed Home 22.30

light rain at 2240

MC SC SW MT S.T.

May 9 12 ^m -1 ^s 15.4 ^s -58.8 ^s +07.2 ^s -12.9 ^m 01.0
Adv.

Date Tuesday, May 9-10, 1939, H-L Julian Day

Hour	Angle	End
2	20	-
3	40	-
4	60	-
5	80	-
6	100	-
7	120	-
8	140	-
9	160	-
10	180	-
11	200	-
12	220	-
1	240	-
2	260	-
3	280	-
4	300	-
5	320	-
6	340	-
7	360	-

190

[illegible]

Date Wed May 10-11, 1939 Hol-T Julian Day.

[illegible]

183

Date *Thursday May 11-12, 1939 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	D
4450	HD 89239	10 12.6	+27 55	I-12	Acta II	0 10	3.4 10.8	20 15	20 51	3	110
4451	99607	11 22.5	+45 07	"	"	"	4.2 10.6	20 54	22 00	4	3
4452	118508	13 32.3	+25 07	"	"	"	4.3 10.7	22 04	22 48	1	10
4453	122356	13 56.4	+09 22	"	"	"	4.2 10.6	22 52	23 16	2	11
4454	127726	14 27.9	+27 08	"	"	"	4.2 10.6	23 19	23 44	3	14
4455	129153	14 35.9	+13 57	"	"	"	4.3 10.7	23 48	0 18	4	15
7 4456	132772	14 55.2	+39 40	"	"	"	4.4 10.7	0 21	0 50	1	16
4457	154054	16 58.2	+25 40	"	"	"	4.4 10.7	0 54	1 40	2	17
4458	156841	17 15.0	+38 55	"	"	"	4.2 10.6	1 43	2 43	1	18
4459	166935	18 05.5	+29 56	"	"	"	4.2 10.6	2 47	3 29	2	19

Mirror resilvered Thursday.

On reversing telescope in evening, found one wet drop, apparently from
centre of lens, towards the axis. Wiped it off as well as possible with blotting paper.

189

Hour Angle End	Declination	Seeing	Ptg. Mag.	Filter	REMARKS
1 35 W	27 42	0-1	6.44 B9	1-2-1	Image very satisfactory; mirror satisfactory.
1 33 W	44 52	0-1	7.14 F0	1-2-1	" " " " " "
0 12 W	24 53	1	7.25 Ma	1-2-1	BSC.
0 16 W	09 08	1	5.94 A2	1-2-1	BSC.
0 13 W	26 56	1	5.96 A2	1-2-1	BSC.
0 38 W	13 45	1	6.12 A5	1-2-1	BSC. PL numbered 4451
0 51 W	39 29	1-0	5.93 F2	1-2-1	BSC Seeing variable.
0 41 E	25 35	1-2	6.95 K6	1-2-1	BSC
0 26 W	35 51	1	6.96 K6	1-2-1	BSC
0 59 W		1-2	7.57 Q0	1-2-1	
<div> <div>ME</div> <div>SC</div> <div>SW</div> <div>MT</div> <div>ST</div> </div> <div> May 12 12 -1 15.3 -1 00.0 +12.9 -15.0 -0.9 </div>					

Date Friday May 12-13, 1939, M-T Julian Day.

[illegible]

786

Ending Time
E.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
1 36 W	56 33	2	7.32 B9	1-2-1	Printer of 28.70
2 24 W	46 49	2-3	6.79 B9	1-2-1	
3 13 W	29 23	1	7.04 F0 A2	1-2-1	
1 09 W	61 54	1-0	6.79 A0	1-2-1	Huge - brownish
	42 56		7.20 A0	1-	Huge - reddish 2.2. See like huge with high set with Star faint in huge 2.2.0. Still 2.3.0
<div> <div>MC</div> <div>SC</div> <div>SW</div> <div>MT</div> <div>ST</div> </div> <div> May 13 10 -114.8 -100.4 +16.1 -14.8 0.9 </div>					

187

Date Sat May 13-14, 1939 Hd-T Julian Day.

[illegible]

about 250 Visitors

Hd showed 8 Leo, m3 with 74"

T " 8 Vag? " 4"

183

Ending Time
E.S.T.

Hour Angle
End

Declination

Seeing

Ptg. Mag.

Pointer at 31.3 REMARKS

W 52^m 37 50 3 5.92 A2 1,2,1 BSC

W 46^m 41 10 3 5.82 A5 1,2,1 "

W 44^m 17 53 4 7.58 F5 1,2,1 Supp

✓ 1 58 55 39 4 6.17 K2 1-2-1 BSC

✓ 0 27 55 52 4-3 6.12 K0 1-2-1 BSC

W 0 27 74 19 4-3 7.54 F5 1-2-1 Supp +

W 0 35 53 26 4 7.13 K5 1-2-1 BSC

✓ 1 46 23 11 2 6.9 B3e 1-2-1 MWC

W 0 01 21 24 1-4 5.70 A0 1-2-1 BSC

MC

SC

SW

MT

ST

May 15 12 -1 13.6 -1 01.7 +23.1 -16.8 -0.7

May 16 9 -1 12.4 -1 02.4 +24.9 -17.6 -0.8

evening

190

Temp. set 12.8

Ending Time EST.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS	spots	3 ^m
2 04	W	+60 25	3-1	7.50	F0	1-2-1	Seeing good at start, but some blue up.	
		+60 00	1	6.78	A5	1-2-1		
1 57	W	+72 15	1-2	7.44	K0	1-2-1		
0 26	W	+55 39	1-2	7.17	K5	1-2-1	BSC.	
0 51	W	+76 37	1-2	7.58	A2	1-2-1		
0 55	W	+72 42	1-2	7.45	K0	1-2-1		
1 20	W	+75 29	1-2-3	7.12	F0	1-2-1	seeing is good.	
2 12	W	+61 12	1-2	7.11	F5	1-2-1		
						MC	SC	SW
						May 17 10	-1.129	-1.028
							+26.2	-18.0 -0.6

191

Date Wed May 17-18, 1939 Hel-L Julian Day

[illegible]

[illegible]

Date Thursday May 18-19, 1959 H-T Julian Day

[illegible]

Thick haze + light haze from sunset on. Cloudy + in the morning
 with clearing

194



Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS	
1 12 W	+24 55	1	7.25 MA	1-2-1	BSC Light clouds. Bright diff. area low
0 19 W	+28 50	1-2	5.72 A2	1-2-1	BSC in north.
1 02 W	+76 37	1-2-3	7.58 A2	1-2-1	KSA 6 Seeing, Variable. Partly cloudy, 2.5 - 1.10.
0 15 W	+77 34	2-3	6.35 F2	1-2-1	Supp. " "
1 14 W	+76 54	2-3-0	7.47 F2	1-2-1	Supp. " " Partly cloudy, 2.00 - 3.30
2 04 W	+61 15	~	7.11 F5	1-2-1	" " Partly cloudy, 3.45 -
				10-10	
					May 19 10 MC SC SW MT ST
					-112.8 -1.05.1 +30.0 -17.0 -1.2
					But

Date Free May 9-20, 1939 Hel-T Julian Day

Saturday - May 20-21, 1939 M

cloudy all evening. - about 12 visitors

Monday - May 22-23, M, cloudy all evening

Ending Time E.S.T.	Pointer at 14.4						REMARKS
	Hour: Angle: End	Declination	Seeing	Ptg: Mag.			
12:5	h 32 ^W	27 02	1	7.21	A ₂	1, 2, 1	Supp. Some haze + cloud.
1:00	W 34 ^m	-04 36(!)	2	6.10	F ₂	1, 3, 2	B.S.C. →  5m. Would very much of this in right place. Check
1:05	W 25 ^m	16 30	2	5.35	A ₃	1-2-1	Clouds at 9.43  in these pairs about here, the brighter of which may be it.
1:10		22 20		7.14	K ₅	1-3	AD. High 100% by 1:15. Still had a 30-cloud.
							Plate Brown in Science

gave short talk in lecture room and demonstrated telescope.

197

Date Tuesday, May 23-24 1939 H-L

Julian Day

[illegible]

Date Wed May 24-25, 1939 Hel-L Julian Day

Hour Angle
End

Printer at 14.1

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
550.1	W 11 ^m	21 12	2	5.78 A2 1,2,1	BSC Some large
935.2	W 8 ^m	34 25	2	6.98 K0 1,2,1	BSC Arc refusing to strike again. Discovered it may be struck by closing poles and then turning dome. i.e. for contact in trolley.
1000	E 5 ^m	01 20	2	6.02 A3 1,2,1	BSC
1106.4	W 26 ^m	17 53	3	7.58 F5 1,2,1	Supp Aurora (rayed arch) at 10.20
	1 04 W	16 15	3	7.55 G0 1,2,1	Supp Note: may have 121607+127539 both on # 4504!
	1 19 E	75 12	4	6.38 A5 1-2-1	Supp but time in feeding star on slit
	2 45 W	74 21	4-3	7.59 F5 1-2-1	Supp also filling in film 1.25 min
	3 56 W	25 01	3-2	6.9 D00 1-2-1	clearing again
	4 45 W	17 00	2	6.72 K2 1-2-1	BSC

May 25 12 ^{MC} ^m -108.6 ^{SC} ^m -109.3 ^{SW} +38.3 ^{MT} ^m +19.2 ST ^m -0.3
 Reset

Date *Thurs May 25-26, 1939 Hd-T* Julian Day

[illegible]

Clearing after sunset

202

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Pointer at 16.0	REMARKS
16 25.2	N 2 ^h 14	30 37	1	7.52 A2	1,2,1	
16 49.7	E 11 ^m	14 38	2	5.77 A0	1,2,1	BS.
17 32.4	N 6 ^m	39 47	3	7.03 A5	1,2,1	BS
18 01.1	226 W	69 26	3	6.86 A0	1,2,1	BS
18 11.5	1 00 W	55 37	3	6.97 K2	1,2,1	BS. Seeing worse, 1/2 sec - 2.35
18 16.1	1 37 W	55 58	3	6.92 K0	1,2,1	BS
18 32.2	2 48 W	06 18	3	6.98 A0	1-2-1	BS
18 41.1	1 33 W	12 29	2-3	7.29 B8	1-2-1	
						<div> <div>MC</div> <div>SE</div> <div>SW</div> <div> <div>MT</div> <div>ST</div> </div> </div>
						<div> <div>May 26</div> <div>10</div> <div>-1.08.1</div> <div>-1.09.8</div> <div>+39.1</div> <div>+19.0</div> <div>+0.5</div> </div>

Date Fre May 26-27/29 T-M Julian Day

Saturday May 27-28, 1939 H-T
about 65 visitors cloudy with rain.

209

Ponter at 17.3

Ending Time
E.S.T.Hour Angle
End

Declination

Seeing

Ptg. Mag.

REMARKS

1-2-1	52 W	46 48	1	6.79	B ₉	1-2-1	Low dome, light haze
1-2-1	32 E	60 25	0-1	5.95	A ₂	1-2-1	
1-2-1	18 W	61 54	0-1	6.79	A ₀	1-2-1	Clouds too dense
1-2-1	44 W	49 02	1	7.40	F ₀	1-2-1	light clouds general throughout exposure.
1-2-1	54 W	44 01	2	7.25	A ₂	1-2-1	
1-2-1	43 W	44 17	2-3	7.40	B ₉	1-2-1	

May 27 10

MC	SC	SW	M ₁	ST
-1 07.4	-1 09.6	+39.7	+18.6	+05.0

Something should be done
about the dome closing
motor. After working ∇ 15
min. to get the motor
to do something, had
to close by hand

Date Tuesday, May 29-30, 1939 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.
4524	HD 136831	15 17.7	12 56	I-12	Astrat II	1010	13.1 19.9	21 36	22 26
4525	140139	15 37.0	44 11	—	—	—	13.1 19.8	22 30	00 30
- 4526	KZ JH 169753	18 21.1	-09 15	"	"	.015L	13.2 19.9	00 45	02 55
4527	180844	19 13.0	32 57	"	"	.010	13.2 19.9	03 00	03 50

Clouds for some time after sunset. Cloud
Printer at 14.6 REMARKS

May 29 12 MC SC SW M.T. ST.
-1.06.6 -1.09.9 -1.4.9 +1.4.2 +0.4^m
Something certainly is wrong with
shutter circuit. Could get no exposure at all.
Reset throw-out, repeatedly, opening up and
pushing reset in, checked pressure in basement and
done at various positions, finally opened by
hand. By that time light clouds over a little sky.

Hour	Angle	Declination	Seeing	Ptg. Mag.		
End						
0 43 E	12 47	0	6.20	A0	1-2-1	
1 01 W	44 02	1	7.40	F0	1-2-1	
0 42 W	-9 15	0	VAR. 7.47	B ₂	1-2-1	
0 45 W	33 01	1	6.89	B ₅	1-2-1	

Lost a little time looking at the slit.

Imp. Sunday with a little misty at
first but all in all a day.

May 30 10 MC SC SW M.T. ST.
-1.06.4 -1.10.5 -05.0 +1.4.0 +0.7^w

Date *Tuesday, May 30-31, 1939* H-L Julian Day

[illegible]

Ending Time R.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS	
1	24 W	+77 46	3-2	6.64 A ₀	1-2-1	KSA 5
1	59 W	+72 14	2-3	7.44 K ₀	1-2-1	LSA 5
0	30 W	+61 52	3	7.10 A ₂	1-2-1	KSA 15
1	16 W	+76 38	3	7.58 A ₂	1-2-1	KSA 6
0	30 W	+77 35	3-2	6.75 F ₂	1-2-1	
1	0 W	+75 21	3-2	7.12 F ₀	1-2-1	
1	06 W	+60 22	3	6.88 A ₂	1-2-1	
0	20 W	+57 30	3-2	7.45 M ₂	1-2-1	
<div style="display: flex; justify-content: space-between; align-items: flex-end;"> <div> <p>outside the base</p> <p>10.13^s</p> </div> <div> <p>June 1 - 10</p> <p>MC SC SW MT_s ST_m</p> <p>-1.06.1 -1.11.4 -04.5 +07.2 +0.4</p> <p>Adv.</p> </div> <div> <p>thing 1 26.2 3.17 19.44</p> <p>6 26.4</p> <p>9 26.27</p> </div> </div>						

Date Thursday, June 1-2, 1939 H-Bs-T Julian Day

[illegible]

Light clouds at sunset delayed start.
Temp at 14.6 210

210

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
3	17 W	+44 53	1	7.14 F0 1-2-1	sky rather thick. Clouds. KSA 31
1	53 W	+24 55	1	7.25 Ma 1-2-1	Stage. Image unstable BSC
1	43 W	+55 39	1-2	7.17 K5 1-2-1	BSC
0	20 W	+61 13	1-2	7.11 F5 1-2-1	Seeing variable. Light clouds KSA 32
0	55 W	43 36	2-3	7.20 A 1-2-1	Light clouds
0	45 W	47 30	2-3	6.45 A 1-2-1	
1	28 W	28 41 (P.)	2-3	7.42 K 1-2-1	(*) Brighter than N. The N. is more important
<div style="display: flex; justify-content: space-around;"> MC SC SW MT ST </div>					
<div style="display: flex; justify-content: space-around;"> Jun. 20 -1.06.3 -1.11.9 +04.0 +06.3 +0.5^m </div>					

Date Friday, June 2-3, 1939, M-Bs-T Julian Day.

[illegible]

Point total 15.70

Date Sat June 3-9/39 Hd-T

Julian Day.

[illegible]

Date Mon June 7-5 B-L

Julian Day.

[illegible]

		MC	SC	SW	MT	ST
Jun. 5	10	-1 06.8	-1 13.2	+01.2	+04.3	+0.5

Date *Monday June 5-6 1939 M-BS-L* Julian Day

[illegible]

Index
2.12

Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
setting 1 5 8	focus 26.25 26.10 26.35	base neutral	12.9, 12.9, 13.9,	reset focus to 26.25. ^{best sharp focus} focus satisfactory.
02 ^h 17 ^m W	46 49	2-3	6.46 A0	1-2-1
00 22 W	+60 25	2	5.95 A2	1-2-1
01 36 N	42 23	2	7.25 A2	1-1 1/2-1
01 22 W	+27 21	2.1	6.24 B3	1-1 1/2-1
<p> <i>clouds 01:25 - 01:50, V. solid 01:50 - 02:25, more clouds</i> <i>filling in at 00¹⁰ solid until 01¹⁵</i> <i>clouds 01:25 - 01:50, V. solid 01:50 - 02:25, more clouds</i> </p> <p> <i>Jun 6 10 -1075 -1138 +021</i> <i>+03.2</i> </p>				

Date Wednesday June 6-7, 1979 H-Bs-L Julian Day[illegible]

Import 16.8

Ending Time L.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
2 50.5	2 14W	+72 14	0	7.44	K0 1-2-1	Supp
		+65 06	0	5.70	H0 1-2-1	
1 34	1 43W	+57 54	1	7.47	F2 1-2-1	Supp
	1 06W	+76 55	1-0	7.47	F0 1-2-1	Supp
	1 23W	+12 21	0	7.55	F0 1-2-1	Supp
	0 42W	+47 43	1 -	7.59	Ma 1-2-1	Supp
<div> <div>MC</div> <div>SC</div> <div>SW</div> <div>MT</div> <div>ST</div> </div> <div> <div>Jun. 7</div> <div>10</div> <div>-107.9</div> <div>-114.1</div> <div>+04.8</div> <div>+03.0</div> <div>+0.6</div> </div>						
3	Outside thin base			No filters		Set
				4/4	Tilt 23.14 Focus	23.2 1
						23.4 6
						23.6 9
					Tilt 23.14 Focus	Set 23.0 1
						23.2 6
						23.4 9
11-12	Thick	12.10				23.35 best

Date Thursday, June 8-9 1939 H-Bs-T Julian Day

[illegible]

Clouds early evening
 Double with thermometer, used manual control
 222

Ending Time LAT	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS						
							MC	SC	SW	MT	ST	
						Jun. 8	10	-108.5	-1 14.6	+06.3	+01.8	+0.4 ^m
	2 15 W	+24° 57'	1	7.25	Ma	3-3-3	5.4					
	1 41 W	+28° 50'	1	7.2	A2	3-3-3	+					
	0 23 W	+8° 57'	2-1	6.99	K2	3-3						
20 10	52 W	-4 49	1	6.98	Ke	3-3-3	Stopped at spec. spectrograph lens pair					
	0 07 W	28 16	1	6.24	Bu	3-3-3	Supp.					
	0 31 W	46 03	2-1	5.48	Ac	3-3-3						

223

Date *Fri June 9-10, 1939* *Hol-R-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
- 4571	HD 107,612	12 17.0	+7 17	1-25	Astra I	.015	193 25.9	20 49	22 29	4
4572	" H2, 926	15 52.2	+42 51	1-25	"	.010	192 25.8	22 40	23 44	1
4573	150,318	16 35.6	+04 15	✓	✓	✓	191 25.7	23 42	0 54	2
4574	168270	18 13.8	+18 06	"	"	"	"	1 02	"	3

4573F *Saturday June 10-11, 1939* *H* changed to 12" camera
Focus test outside the bin

Saturday, June 10-11, 1939, M-N-T

*took off visitors eyepiece and
 brought telescope back to approx focus.
 later few stars visible in zenith but remained generally*

226

Thick clouds, wind + rain before midnight. Clearing at 0^h, opened up 0:10, cloudy 0:30
Pointer set at 15.05 for thermostat.

Ending Time L.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
4				5.82 A ₂	Clouded over before star found. After experiencing trouble with dome-turning motor, closed about 2 ^h . Sky cloudy until dawn began to break near 3 ^h .
					<div style="text-align: right;"> MC SC SW MT ST Jun. 12 10 -1 10.6 -1 15.9 +05.1 -06.1 +0.4 Reset </div>

Date Monday, June 12-13, 1939 M-BS Julian Day.

[illegible]

Cloudy for first part of evening. Cleared later.

228
 Looked at out of focus image of 2 stars.
 Trying too far to determine anything about them.
 No difficulty finding image on slit. Under some

Hour Angle End	Declination	Seeing	Ptg. Mag.	
00 ^h 17 ^m W +42 56	0	7.20	A0	1-2-1
01 ^h 19 ^m W +42° 54'	0-1	7.49	B8	1-2-1

Printer at 10:43

REMARKS

No marked motion of image on focusing

first aerial glow in N

Clouds in north + west 2^h 10 - 2^h 20. Cloudy before dawn. Stopped exp.

These plates unnumbered!

	MC	SC	SW	MT	ST
Jun. 13	10	-1.10.9	-1.16.6	+09.4	-06.8 - 0.2 ^m
					↑ Reset.

12.1 - do not trust. Several part
 of Stargazer of class.

Date Tuesday, June 13-14, 1939, 14-B-2 Julian Day.

[illegible]

230

Let me NAC 5055 - too far north - too high to reach

5746 - sky much too bright at 9³⁰ - object barely visible.

M100 - clouds almost from start. Strong wave. [and then we set

Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
				<div style="display: flex; justify-content: space-around; font-size: small;"> MC SC SW <div style="border-top: 1px solid black; display: flex; justify-content: space-between; width: 100%;"> MT ST </div> </div> <div style="font-family: cursive;"> June 14 13 -1 10.6 -1.144 +08.7 -05.6^s +04^m Reset </div>

Date Wednesday June 14-15 H-B-Bs Julian Day.

[illegible]

Ending Time
E.S.T.

Date Thursday, June 15, 1961 11-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	
4579	NGC 6205	16 38.1	+36 39	Naut.	Astra II			9 26	9 32	1	51
4580	" 6058	16 01.0	+40 58	"	"			9 43	10 03	1	51
4581	" 6058	"	"	"	E-I-G			10 19	11 49	2	53
4582	" 6210	16 40.3	+23 59	"	E I - G			11 22	11 37	2	
4583	" 6210	"	"	"	Astra II			11 52	11 57	1	
4584	" 6412	17 32.4	+03 11	"	"			0 20	0 50	2	
4585	" 6720	17 51.2	+32 54	"	"			1 50	2 00	1	
4586	" 6853	19 55.3	+22 27	"	"			2 06	2 22	2	
4587	" "	"	"	"	E I - G			2 34	3 04		

Friday June 16-17 14-T
Muntman

Cloudy all evening; thunderstorm round about. Occasional partial
breaks for a few minutes. At 1 am changed back to Corning II.

234

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS			
1:30	154 E	15	Vile					
1:40	043 E		Poor					
1:40	003 W		Fair	Yellow Filter (15 G)				
1:35			"	"	Faint guide star			
1:35			"					
1:35			"		T knocked guiding as expected on Newtonian plate			
2:35			"		Thickened in reference			
				Yellow Filter				
				MC	SC	SW	MT	ST
	Jun. 16	14	-1 12.7	-1 15.2	+09.8	-07.8	+0.8	
	Jun. 17	10	-1 12.9	-1 14.0	+12.4	-08.2	+0.9	
1:45	Still cloudy	3pm.						

Date Saturday Nov 17-18 H-B-T Julian Day[illegible]

237

Date Tuesday, June 20-21, 1939 H-Bs Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	SLT	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Dist
4591	HD 128000	14 29.4	+55 50	I-12	Ac II	set 010	18.6 25.0	20 56	21 36		
4592	139493	15 33.4	+54 57	"	"	"	18.6 25.1	21 39	22 03		
4593	153720	16 56.0	+75 34	"	"	"	18.6 25.1	22 07	23 07	3	
4594	153845	16 56.8	+77 00	"	"	"	18.6 25.1	23 12	00 32	4	
4595	167,914	18 12.4	+12 02	"	"	"	18.6 25.0	00 47	02 03	1	
4596	174,881	18 47.7	+22 39	"	"	"	18.6 25.0	02 15	03 45	2	
4597	181,119	19 14.1	+56 50	"	"	"	18.6 25.0	03 10	04 45	3	
Wed June 21 14d											
I-12 focus 26.23, tilt 19.48. Changed to I-25											
4597F	Focus			I-25	extra	010	13.2			3	intended

• A

no filler
4/4

Date Wed June 21-22, 1939 HL-85 Julian Day.

Thurs June 22, 1933 H-T
Bona chance

[illegible]

247

Date *Fri June 23-24, 1939* *Hol* 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
- 4600	<i>also</i> HD 116842	13 21.2	55 30	I-25	Procion	010	14.4 21.0	8 45	9 19 4	144 5
	"	"	"	"	"	"	14.3	10 24	11 08	138
4601	HD 142926	15 52.2	42 51	"	Astra I	010	14.2	9 23	10 19 1	137
- 4602	<i>η Lynae</i> HD 180163	19 10.4	38 58	"	E 33	010	14.2	11 16	11 48 1	139
	"	"	"	"	"	"	14.1	1 44	2 20	134
- 4603	<i>mwc 278</i> HD 164284	17 55.3	4 22	"	Astra II	"	14.3	11 53	0 05 2	145
- 4604	<i>MWC 307</i> HD 183143	14 23.0	18 05	"	"	"	14.2 21.1	0 09	1 44 3	130
- 4605	<i>γ Cas</i> HD 2905	00 27.3	62 23	"	E 33	"	"	2 36	3 07 4	142
- 4606	HD 5354	00 55.7	60 11	"	Procion	"	14.1 21.0	3 08	3 40 1	143
	"	"	"	"	"	"	"	3 14	3 40 2	143
	"	"	"	"	"	"	"	3 21	3 40 3	143
Saturday, June 24-25, H-βs										
4606 F1	Focus test with tilt - changed for					3900-4500	region. <i>changed to 12 1/2"</i>			
4606 F2	"						<i>± 11.5"</i>			

242

Printer at 15.6

Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
7 19 4	W 1 ^h 44	55 18	5-4	4.16 A5 8.8 ^{no filter} set 1
08	W 3 ^h 38	55 18	2	8.8 set 7
10 19 1	W 13 ^m	42 44	3-2	5.6 B8 4.4 4 ^{1 filter}
11	E 2 ^h 18	39 00	2	4.16 B3 4 ^{no filter} set 1
12	W 8 57	34 21	2	4.16 B3 4 ^{no filter} " 7 Scumy variable, scattered clouds
13	W 9 5		2	4.8 B3 4.4 4 ^{1 filter}
14	W 10 2	18 10	2	6.9 B3 4.4 4 ^{1 filter} Scattered clouds
15	W 11 4	62 35	2	4.0 B3 4 4 ^{no filter}
16			2	22.5 B3 16 set 1
17			2	16 5
18			2	3.8 9 Blotted by clouds
<div> <div> <div>ML</div> <div>SC</div> <div>SW</div> <div>MT</div> <div>ST</div> </div> <div> <div>Jun 24</div> <div>20</div> <div>-15.8</div> <div>-121.1</div> <div>+25.0</div> <div>-23.8</div> <div>+01.0</div> </div> </div>				
19	W 12 1			
20	W 12 1			
21	W 12 1			
22	W 12 1			
23	W 12 1			
24	W 12 1			
25	W 12 1			
26	W 12 1			
27	W 12 1			
28	W 12 1			
29	W 12 1			
30	W 12 1			
31	W 12 1			
32	W 12 1			
33	W 12 1			
34	W 12 1			
35	W 12 1			
36	W 12 1			
37	W 12 1			
38	W 12 1			
39	W 12 1			
40	W 12 1			
41	W 12 1			
42	W 12 1			
43	W 12 1			
44	W 12 1			
45	W 12 1			
46	W 12 1			
47	W 12 1			
48	W 12 1			
49	W 12 1			
50	W 12 1			
51	W 12 1			
52	W 12 1			
53	W 12 1			
54	W 12 1			
55	W 12 1			
56	W 12 1			
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77	W 12 1			
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79	W 12 1			
80	W 12 1			
81	W 12 1			
82	W 12 1			
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86	W 12 1			
87	W 12 1			
88	W 12 1			
89	W 12 1			
90	W 12 1			
91	W 12 1			
92	W 12 1			
93	W 12 1			
94	W 12 1			
95	W 12 1			
96	W 12 1			
97	W 12 1			
98	W 12 1			
99	W 12 1			
100	W 12 1			

Date _____

Date _____

[illegible]

About 80 visitors - showed π Cass
 M3 with 74 inch N showed moon with
 2" and 4".

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.
0 08W	27 06	0-1	7.22	Az 1-2-1
0 22E	57 52	1	6.41	Pa 1-2-1
0 27W	33 26	1	7.52	Bo 1-2-1

Printer at 16:08 REMARKS

HAD TO OPEN BY HAND

tried every other method first without result.
 Set focus to 26.12.

Mostly cloudy, 4:00 - 4:30
 Trouble with shutter. Got them closed by
 strengthening spring in throw-out switch.

Date *June 25-6 1939 Friday* B Julian Day

[illegible]

246

Ending Time
L.S.T.Hour Angle
End

Declination

Seeing

Ptg. Mag.

Pointer at 17.0 REMARKS

0.29W

28 50

1-2

5.72

A₂

1-2-1

(H) Had to open by hand.

1.03W

14 40

7

5.77

A₀

1-2-1

(Hd)

0.44W

50 00

2

6.18

F₀

1-2-1

(Y)

0.52W

25 34

2 Var

6.95

K₀

1-2-1

(H) Left plate in spotter for long time.

Closed up at 12 as power is to be
shut off.

Jun. 26 10 MC SC BW
-1.16.4 -1.22.5 +24.8

MT_s ST
-25.7 +0.1
Rest

247

Date Monday, June 26-27, 1939, M - Bs Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	
4614	H.D. 138 406	15 26.8	62 05	I-12	Astron II	010	^{above} 17.5 24.5	20 52	22 22	1
4615	170470	18 24.5	10 49	—	—	016 L	17.5 24.5	22 32	00 32	2
4616	BD 26° 3896	20 21.6	+27° 02	✓	✓	020 M	17.5 24.6	00 54	03 24	1
<p style="text-align: center;">Tuesday, June 27-28, 1939. H</p> <p>Y removed camera to measure for shift. Replaced 12"</p>										
4616 F	Focus Test			I-12	Astron II	010				1

Delayed opening due to clouds. Pointer set at 16.72

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS																								
21:23	-0 ^h 49 ^m W	+17° 36'	2	7.22 K5	1-2-1																								
21:33	1 ^h 30 ^m W	+17° 05'	2+	7.17 K0	1-2-1																								
Looks like double mag. 10/10																													
<table border="1"> <thead> <tr> <th></th> <th>MC</th> <th>SC</th> <th>SW</th> <th>MT</th> <th>ST</th> </tr> </thead> <tbody> <tr> <td>Jun. 28 10</td> <td>-117.5</td> <td>-123.9</td> <td>+28.3</td> <td>-29.2</td> <td>+0.3^m</td> </tr> <tr> <td>Jun. 29 12</td> <td>-118.2</td> <td>-124.9</td> <td>+30.0</td> <td>-31.2</td> <td>+0.4^m</td> </tr> <tr> <td>Jun. 30 14</td> <td>-119.2</td> <td>-126.0</td> <td>+30.9</td> <td>-33.8</td> <td>+0.4^m</td> </tr> </tbody> </table>							MC	SC	SW	MT	ST	Jun. 28 10	-117.5	-123.9	+28.3	-29.2	+0.3 ^m	Jun. 29 12	-118.2	-124.9	+30.0	-31.2	+0.4 ^m	Jun. 30 14	-119.2	-126.0	+30.9	-33.8	+0.4 ^m
	MC	SC	SW	MT	ST																								
Jun. 28 10	-117.5	-123.9	+28.3	-29.2	+0.3 ^m																								
Jun. 29 12	-118.2	-124.9	+30.0	-31.2	+0.4 ^m																								
Jun. 30 14	-119.2	-126.0	+30.9	-33.8	+0.4 ^m																								

Date Friday June 30-July 1, 1939 M-T Julian Day 1

[illegible]

256

Rain during first part of night

Ending Time LST	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
0 25 W	27 06	2-1-0	7.22	A2	1-2-1	Song with fork last half of
0 29 W	12 59	1	692	B8	1-2-1	Seeing variable
0 42 W	42 43	17273	721	B8	1-2-1	" better 200. Clouds 210 light rain 230 Partly cloudy with occasional light showers

Date Sat July 1-2, 1939 H.A.T. Julian Day

Hour	Angle	Dec
End		

255

Date Sun July 2-3, 1939 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
4626	HD 154099	16 58.3	73 17	I - 12 $\frac{1}{2}$	Astra II	Set .010	15.6 22.5	21 02	21 38	1		
4627	" 154181	16 58.8	74 26	"	"	"	15.6 22.5	21 42	23 08	2		
- 4628	MWC 312											
- 4628	" 180398	19 11.3	12 56	"	"	.015	15.6 22.5	23 21	01 05	3		
- 4629	MWC 350											
- 4629	" 196712	20 34.0	-02 46	"	"	.010	15.5 22.4	01 10	01 46	4		
- 4630	MWC 346											
- 4630	" 195407	20 26.0	36 39	"	"	.015	15.5 22.4	01 54	03 34	1		

Mon July 3 1939 Hd

I-12 focus was 26.17 Tilt 20.29 - Changed

4630 F focus test

I-25 Astra II .010 15.6 22.0

256

Pointer set at 17.4

Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
0 56 E	73 12	1	6.38 A5 1-2-1	Supp. list. image unsteady settling later
0 33 W	74 22	1-2	7.59 F8 12-1	5" probably right star - see field drawn since
0 15 W	12 59	1-2	7.7 Bshc $\frac{3}{4} + \frac{1}{2} - \frac{3}{4}$	N
0 26 E	-02 38	2-3	6.3 B9e 1-2-1	
1 31 W	36 45	2-3	7.7 B9c 1-2-1	haze
<p> M C S C S W M T S T July 3 12 -1^m 20.6 -1^m 28.1 +32.4 -37.6 +6.4 </p>				
<p> changed to I-25 outside this box </p>				
<p> no filter + 1/2 Tilt 23.15 Set 1 70mm 23.1 " 6 23.3 23.3 is good " 9 23.5 </p>				

Date Monday July 3-4, 1939-L Julian Day 2454786.5

[illegible]

Date Wednesday 1939 July 5-6 ³⁵ Julian Day.

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	M.H.	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
- 4635	Micor 11.6, 842	13 ^h 21.2	+55° 30	1-25	Process	.010	20.8 27.8	22 ^h 07	23 ^h 42	3
- 4636	" Lyra 180, 163	13 ^h 10.4	+38° 58			.010	21.0 28.0	20 ^h 01	01 ^h 11	4
- 4637	K Cas 2905	00 ^h 27.3	+64° 23		E33	.016	20.8 27.8	02 ^h 03	03 ^h 35	4

		MC	SC	SW	MT	ST
July 6	10 ^h	-1 ^m 22.5 ^s	-1 ^m 30.7 ^s	+28.3 ^s	-44.0 ^s	+06 ^m

261

Date Thurs July 6-7, 1939 42 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
- 4638	^{alpha} HD 116842	13 21.2	55 30	I 25	E Perseus	010	23.1 30.0	10 38	11 34	3	21.5
- 4639	^{gamma} HD 180163	19 10.9	38 58	"	"	"	23.0 29.8	11 42	12 28	4	21.5
							22.9 29.7	12 28	01 14		21.5
							23.0 29.8	01 14	02 04		21.5
- 4640	^{K Cas} HD 2905	00 27.3	62 23	"	"	"		02 13	02 49	2	21.5
							23.0	02 49	03 25		21.5
							23.1 30.0	03 25	04 01		21.5

262

Clouds seen here.

[illegible]

Date Tri Feb 7-8/39 T

Julian Day.

[illegible]

5

[illegible]

Date Sat July 8-9, 1939 Hd-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
4642	<i>Alcor</i> HD 116842	13 21.2	55 30	I-25	E. Process	010	20.7 27.5	10 23	11 15	3
4643	MW 6308 HD 175863	18 52.3	59 53	"	Astra II		20.7 27.5	" 29	1 39	1
4644	<i>η-type</i> HD 185163	19 40.4	30 52	"	E-33	"	20.5 27.9	1 43	2 04	4
4645	MW 231 HD 192033	20 7.8	26 11	"	Astra II	"		2 13	3 21	2

266

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
5:38	W 4 ^h 41	55 16	1	4.16 A5	no filter 10-10
1:23	W 135	59 55	1	6.9 B4c	1 meter 4-4-4
2:04	W 146	39 01	Var. 1-2	4.29 B3	no filter 5-5
3:21	W 210	26 16	1	5.9 Bme	1 filter 4-4-4

Trouble finding?
RA 1935 wrong?

Dark clouds 135-200

" " 210 - Mostly clear towards end

267

Date Sunday July 9-10, 1939, 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
4646	^{in Lyrae} HD 180163	19 10.4	38 58	I-25	East. 33	Set .010	Abn. Edn. 18.6 258	00 40	01 06	2
4647	MWC 360 " 200310	20 57.6	45 46	"	Astra II	"	18.5 258	01 10	01 46	3
4648	MWC 381 " 208682	21 52.9	64 52	"	"	"	18.5 258	01 52	03 00	4
4649	" ^{in Cass} 2925	00 27.3	62 23	"	East. 33	"	18.5 258	03 10	03 32	3

Pointer set at 19.75

	MC	SC	SW	MT	ST
July 10 10 ^h -1 ^m	19.5	-1 ^m 33.9	+30.0	+61.5	+3.4

Count. set at 15.8

Ending Time L.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
40	050 W	42 43	0-1	5.6	B ₈	1 filter 4-4-4
47	4 20 W	55 18	1	4.16	A ₅	no filter 10-10
38	1 01 W	30 48	0-1	5.82	A ₂	1 filter 4-4-4 BSC
39	1 20 W	18 06	0-1	5.99	A ₀	4-4-4 B.S.C.
41	4 44 W	42 43	0-1	5.6	B ₀	4-4-4
5	2 10 W	39 02	1	4.29	B ₃	no filter 10-10
9	0 58 E	49 18	1	5.2	B _{9nc}	1 filter 4-4-4
41	1 48 W	62 33	1-2	4.00	B ₀	no filter 10-10

		MC	SC	SW	MT	ST
Jul. 11	12	-1 24.8	-1 34.5	+29.4	+05.0	-0.4 ^m
					Reut.	

Date Tuesday, 1939 Jul, 11-12 B5 Julian Day

[illegible]

Delayed opening due to clouds, rain
 Pointer set at 17.90

Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
01-15	+39° 03'	1+	4.29 B3	no filter
01-15	+37° 48'	1	5.7 B3-e	10-10 filter
				Telescope needs a system of rope ladders! Struggled for 40 min in vain quest of K Cas; probably made wrong allowance for hour-angle in setting & finder. Too much sweeping did not bring it near the slit. Uncovered other finder & turned down but to no avail. Moving 1 ladder between 3 finders a slow business. Too light at 03 to search for H.
				<div> <div>MC</div> <div>SC</div> <div>EW</div> <div>MT</div> <div>ST</div> </div> <div> <div>Jul. 12</div> <div>10</div> <div>-1 25.4</div> <div>-1 34.7</div> <div>+31.4</div> <div>+04.9</div> <div>+1.3</div> </div>

273

Date Wednesday, 1939 July 12-13 B5 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
4658	Alcor 116,842	13.21.2	+55° 30'	I-25	Process	Set .010	17.6-24.0	20:58	21:58	
Thurs July 13/39 Hel										
I-25 focus was 23.30 tilt 23.15										
Changed to I-12										
4657 F	Focus			I-12	Set E 33	0.010	010 149			2:45

274

Set pointer at 18.88

Reading Name
L.S.T.Hour Angle
End

Declination

Seeing

Ptg. Mag.

REMARKS

3 3 44

+55°20

1

4.29 B3

no filters
10-10

hazy, wind light. became very cloudy, and
began to rain at 23⁴⁵

Jul. 13 10 -1 26.1 SC SW MT ST
 -1 35.3 +30.9 +02.6 +1.5

Outside this case

no filters
45/55

OK
Focus 26.17 tilt 20.28

Date Thurs July 13-14, 1939 HL Julian Day.

[illegible]

276

		MC	S.E.	SW	MT ST
Jul. 14	10	-1 26.9	-1 35.9	+30.9	+0.2 +1.0 ^m

Date From July 19-15/39 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
4667	HD 137071	15 18.9	+39 56	I-12	Admiral	010	14.6 21.4	8 30	9 40	1
4668	" 144529	16 26.9	22 25	"	"	"	14.5 21.8	9 44	10 54	2
4669	" 105990	18 19.6	+12 30	"	"	"	14.4 21.8	10 58	0 58	3
4670	" 203015	21 14.5	17 24	"	"	"	14.4 21.8	1 25	2 41	4
4671	" 210502	22 05.7	11 08	"	"	"	14.4 21.7	2 43	3 47	1

278

Hour Angle End	Declination	Seeing	Ptg. Mag.	Pointer	REMARKS
1 31 W	59 46	2-0	7.03	K5 1-2-1	Seeing 16.8
1 31 W	22 48	1	7.14	K5 1-2-1	
1 52 W	12 29	1-0	7.29	B6 1-2-1	Partly cloudy 0.15 - cloudy 1.0
0 31 W	17 32	1	6.77	F2 1-2-1	
0 51 W	11 19	2-1	7.10	K5 1-2-1	Dragey very cloudy, minor details
<div style="display: flex; justify-content: space-between; align-items: flex-end;"> <div> <p>Jul. 15 10</p> </div> <div> <p>MC SC SW MT_s ST_w</p> <p>-127.7 -136.6 +29.1 -01.0 +1.2</p> </div> </div>					

Date Sat July 15th, 1938 Hd-T Julian Day

[illegible]

Date Sunday, July 16-17, 1939-L Julian Day

[illegible]

282

Pointer set at 15.25

Ending Time
R.S.T.Hour Angle
End

Declination

Seeing

Ptg. Mag.

REMARKS

1¹⁰ W 55 38 1-2-3 6.97 K₂ 1-2-1 BSC0³⁶ W 29 37 1-2 7.52 A₂ 1-2-1 Supp.0⁴⁷ W 45 47 1-2 6.80 B₉ 1-2-1 "0²⁰ W 42 09 1 7.04 B₉ 1-2-1 " Gentle, took lighter component.0¹⁰ W 33 03 1-2 6.95 A₃ 1-2-1 "0³⁵ W 44 18 2 7.01 A₀ 1-2-1 "

July 17 12 ^mMC ^sSC ^sSW ^mMT ^mST
^m28.6°
~~-1 37.1~~ -1 37.1 +31.1 +54.4 +2.4

Date Monday July 17-18, 1939 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
4683	NGC 6366	17 22.4	-04 59	Newtonian	Astra II			21 44	22 09	1
4684	" 6402	17 32.4	-03 11	"	"			22 18	22 48	2
4685	" 6853	19 55.3	+22 27	"	"			23 52	00 22	1
4686	NGC 6853	"	"	"	Eastman IG			00 39	00 54	2
	Mr. Taylor 88	20 10	+15 10	"	"			01 07	01 22	
4687	NGC 6879	20 5.9	+16 38	"	Eastman IG			01 33	01 43	1
	"							01 45	120°	
4688	NGC 6879	"	"		Astra II			02 03	02 08	2
	"	"	"					02 09	60°	
4689	7078	21 25.2	+11 44		Astra II			02 17	02 25	1
4690	NGC 7078	"	"		Eastman IG			02 33	03 21	2

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[illegible]

285

Date

Tuesday, July 12, 1954

Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Sht	Temperature	Starting Time E.S.T.	Ending Time E.S.T.
4691	NGC 6205	16 38.1	+36 39	Newton	Astra II			9 30	9 35 1
4692	" 6366	17 22.4	-04 59	"	"			9 42	10 07 2
4693	" 6402	17 32.4	-03 11	"	"			10 11	10 41 1
4694	" 6779	19 12.7	+30 00	"	"			10 49	11 09 2
4695	" 6720	18 44.9	+32 54	"	East. I-G			11 31	11 51 1
	KSA 64	19 21.4 ⁽¹⁹³⁾	30 03	"	"			11 55	0 15 1
4696	"	"	"	"	Astra II			0 30	0 35 2
"	"	"	"	"	"			0 35	4/6 1 2
"	NGC 6720	18 49.9	32 54	"	"			0 43	0 48 2
"	"	"	"	"	"			0 50	4/6 60 2
4697	NGC 6816	20 08.3	19 42	"	East. I-G			1 35	2 05 1
4698	" 6891	20 10.4	+12 24	"	"			2 30	2 45 2
4699	" "	"	"	"	Astra II			2 52	2 57 1
4700	" 7662	23 22.7	+42 10	"	East. I-G			3 14	3 29 2

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
9 35	0 21 W				
9 47	0 09 W				
10 00	0 33 W				
11 00	0 39 E				
11 50		} Yellow filter			light clouds, probably not over region during exposure. Seeing very variable; hard to guide. clouds over regions during exposures.
12 00					
12 35					
12 48					
1 00					
1 00					
1 00		Yellow filter			
1 00		"			
1 00		Yellow filter			
1 00					NB. Whole last half badly broken by thick haze.

Date Wed. July 19-20 1939 S-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
4701	NGC 6205	16 35	36 39	Nord	Actua I			9 20	9 25	1
4702	" 6366	17 22.4	14 59	"	"			9 33	10 13	2
4703	" 6402	17 32.9	-03 11	"	"			10 18	10 48	1
4704	" 6779	19 12.7	+30 50	"	"			10 54	11 14	2
4705	" 6572	18 07.2	+06 50	"	Act. I-G			11 41	11 51	1
	" "	" "	" "	"	"			11 53	11 55	
4706	KSA 55	17 10.0	+15 00	"	"			0 05	0 15	
	" "	" "	" "	"	"			0 16	0 18	2
4706	NGC 6741	18 57.5	-05 35	"	"			0 32	1 02	2
4707	" "	" "	" "	"	Actua II			1 34	1 39	1
4708	" 7331	22 32.5	53 54	"	"			1 56	2 26	2
4709	" 7662	23 21.1	41 59	"	Act. I-H			2 41	3 21	

Ending Time
E.S.T.Hour Angle
End

Declination

Seeing

Ptg. Mag.

REMARKS

Cloudy - Plate shutters closed 9 39 open 9 8

Yellow filter

"

"

"

"

Filter 15 G

Date Thursday, July 20-21, 1959 - 4 Julian Day

Four Angle
End

Date Friday, 1939 July 21-22

Julian Day

[illegible]

292

July 22 10^{-1} 30.5^S -1^m 40.7^S $+33.9^S$ $+1^m$ 44.8^S use S.W.

Date Saturday July 22-23, 1939 H-Bs Julian Day

[illegible]

Date Sunday, July 23-24, 1939 L. Julian Day.....

[illegible]

296

Pointer set at B2

Ending Time
E.S.T.Hour Angle
End

Declination

Seeing

Ptg. Mag.

REMARKS

0¹⁰ W 27 15 3 6.79 F5 1-2-11¹² E 27 48 3 6.89 K2 1-2-1

022 E 33 00 3-2 6.91 A2 1-2-1

0²⁵ W 17 25 3-2 7.05 F5 1-2-10⁴¹ W 17 32 3-2-1 7.25 F8 1-2-11¹¹ W 30 40 2 7.56 A0 1-2-11¹³ W 45 28 2-3 7.57 F8 1-2-1

Supp.

Seeing a trifle unsteady at times

hazy.

MC SC SW MT ST
 July 24 10 -1^m 31.1 -1^m 42.2 +39.0 -81.1 +0.1
 Reset

Date Monday July 24, 25, 1939, L Julian Day 243

[illegible]

298

Pointer set at 21.75

Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
1 ⁰⁷ E	43 08	1	6.40 A5 1-2-1	Binary
0 ¹⁹ E	-02 15	0-1	6.8- 7.1 B8 1-2-1	Binary, light haze
0 ²⁰ E	17 35	1-2-3	7.22 K5 1-2-1	supp.
0 ¹⁹ E	08 52	3-2	6.5- 7.5 A0 1-2-1	Binary
0 ⁰¹ W	32 40	3-2	6.88 F5 1-2-1	supp.
1 ⁰¹ W	29 14	3-2	7.52 F5 1-2-1	"
0 ²⁵ W	44 24	3-2	7.18 F0 1-2-1	"

July 25 10 ^{MC} -1^s 31.7 ^{SC} -1^s 42.5 ^{SW} +40.0 ^{MT} -82.7 ST +0.2

Date Tuesday July 25-26 1959 ¹ Julian Day.....

[illegible]

300

Ending Time
L.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
0 57 E	43 09	1	6.40 As 1-2-1	Haze Binary
0 25 W	-03 16	1	6.7-7.1 Be 1-2-1	Binary Haze
0 35 E	05 54	2	6.8-7.5 As 1-2-1	" Haze thick toward end
1 32 W	29 16	2	7.52 Fr 1-2-1	Sup h increasing haze toward end of

Date _____ Julian Day _____

[illegible]

302

Ending Time
E.S.T.

303

309