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[illegible]

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

②

Ending Time
E.S.T.

1

:

•

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 long Exp
4050	HD 176798	18 56.8 ⁹	43 07	I-12	Antia II	0 10	4.5 10.6	5 31	6 25	3
4051	HD 186340	19 38.7	60 16	"	"	"	5.0 [*]	6 29	6 49	4
- 4052	MWC 376 HD 206773	21 39.3	57 17	"	"	"	5.2 11.0	6 53	7 33	1
- 4053	MWC 381 HD 208682	21 52.9	64 52	"	"	"	5.2	7 36	7 52	2
4054	HD 1826	00 19.4	29 06	"	"	"	5.2 11.4	7 58	8 38	3
4055	HD 9312	01 26.6	16 28	"	"	"	5.3 11.2	8 41	9 43	-
4056	HD 2739	00 25.8	43 24	"	"	"	5.2	9 47	10 17	1
- 4057	MW 49 HD 15472	2 24.4	70 30	"	"	"	5.3 11.3	10 ²⁶ 25	00 06	2
4058	" 16108	2 30.2	41 58	"	"	"	5.2	00 11	01 41	3
4059	22124	3 25.8	31 41	"	"	"	5.1 11.1	00 ⁴⁵	01 31	4
4060	55506	6 22.7	16 19	"	"	"	5.1 11.2	01 ³⁶	02 11	1
4061	50315	6 47.6	43 04	"	"	"	5.0 11.2	02 ²³	03 10	2
4062	55796	7 21.9	29 37	"	"	"	5.0 11.3	03 ²⁹	04 10	3
4063	60204	7 25.3	28 55	"	"	"	5.0 11.2	04 ¹⁰	05 40	4
(A)	Saturday, Nov 12-13, 1938			M-T			clouds			

Pointer at 29.7 * reset 29.95

Ending Time
E.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
6 25	W 2 ^h 30	43 07	2	7.27 A3	1,1,1
0 41	W 2 ^h 14	60 22	2	6.27 A2	1,1,1
7 51	W 56 ^m	57 27	2	7.0 B0ne	1,1,1
7 52	W 1 ^h 02	65 00	2	5.8 B3ne	1,1,1
9 11	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 12	W 54 ^m	43 35	4	6.59 B8	1,1,1 Supp list
10 42	0 41 W	70 39	3 → 2	8.0 B4ne	1,1,1
11 13	W	42 07	2	6.67 B8	1,1,1 Supp list
11 04	W	31 48	2	6.90 F0	1,1,1 For Y
11 02	E	16 16	3-4-22	7.11 G5	1,1,1 Image small but steady.
11 32	E	43 01	1-2-3	7.35 A3	1,1,1
11 18	W	29 32	2	7.55 A5	1,1,1
		28 49	2	7.52 G5	1,1,1 Clouds, horizon + 55 Completely still. 59
	and rain.				

Date Sunday Nov 13-14 Y-T-L Julian Day 9216

[illegible]

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



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

[illegible]

19

Temp at 20.8

[illegible]

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

[illegible]

Sky thick late afternoon. slowly clearing at dusk

16

Set 26.1

Ending Time
I.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS	
3 ⁰⁶ W	+43 10	1-2	6.40	A5 1-1-1	Stage	
2 ²³ W	+29 15	1-2	7.54	B9 1-1-1	Transparency very variable.	
In changing over to 22167 a deluge struck slit-head, and also badly marked mirrors. plates from cell to try to create order.						Y+H removed one
2 ⁴² W	+59 40	1	7.41	A0 1-1-1		
2 ¹⁰ W	+14 38	1-2	7.59	G5 1-1-1	Light stage	
1 ⁰⁰ W	+31 48	1	6.90	F0 1-1-1	Supers light	
1 ⁴² W	12 35	2-1	7.49	K0 1-1-1	Lo clouds.	
2 W	42 24	2-1	7.41	K0 1-1-1	Supers light. Thick clouds at dusk.	
Adjusted cell plate with a few screws to parallel. Still cloudy at 10:00. Spill out the rain.						

Date Sunday Nov 20-21 B-Y-L Julian Day 9223

16

pointer 25.8

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp	REMARKS
		15 07	1	7.19	F0	1 ^{shut off} Tried to burnish mirror Sunday a.m. no good
7 18	2 15 ^m W	44 56	1	6.59	K0	1-1-1 } polished & cleaned slit.
8 52	54 ^m W	15 40	1	7.04	A2	1-1-1 }
10 23	1 02 W	29 07	1	6.97	A3	1-1-1 }
10 34		46 07	1	7.11	A5	1-1-1 } Supp. first
11 51	7 ^m E	31 50	1-2	6.90	F0	1-1-1 } Supp. first
	1 00 W	47 45	1-0	6.90	F0	1-1-1 } another brighter star north & west.
	1 24 W	29 52	1-0	7.20	F0	1-1-1 } Supp. first
	1 24 W	16 17	1-	7.11	G5	1-1-1 } seeing fair, clouds at 2.00 clearing
	1 42 W	28 49	1-2	7.52	G5	1-1-1 } for R. 2. 2. 2.
	1 55 W	16 18	1-2	6.79	A0	1-1-1 } clouds
						ME SC SW MT ST Nov. 21 12 -1 40.1 -03.0 +01.2 -25.0 +04^m

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

(3)

pointer at 24.45

Ending Time
23.7.

Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
				Stars visible faintly for most of evening. Cleared a bit at 20.30 but closed in again. Cleared slowly from 21.30, still considerable cloud in S. and around horizon. Inspected mirror all carefully for water. No signs of it. Spectrograph working slightly, took photo control off.
0 20 W	43 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	haze, thickening. clouds after this exposure. Sky remaining mostly thick. closed up at 2.30.
				MC SC SW 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

+ 0.1
8.706

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

	MC	SC	SW	MT	ST
Nov 24 12	-1.40^s	-02.9		-22.2^s	$+0.6^m$

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

[illegible]

Clouds & haze gradually clearing after dark. 24

Pointer set 17.2

Ending Time
E.S.T.

Hour Angle
End

Declination

Seeing

Ptg. Mag.

REMARKS

2 03 W

+28 51

1

7.53

G5

1-1-1

Supp list

Clouds. Sat. lost much of time, ended by 20³⁰

Cloud up 21³⁰

Nov. 5

13

MC

SC

MT

S.T.

-140.5

-13.0

-21.0

+04^m

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

[illegible]

Pointer at 18.11

Ending Time R.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
19 28 -	2 13 W	13 41	0	7.37 B8 1-1-1	clouds slowly coming up from S.W. 18.30-19.30 image very faint & lacking last part of exposure. Aurora None
20 42 +	0 22 W	29 07	0	6.97 A3 1-1-1	sky still a trifle hazy. Heavy haze at 20.20 image ft. image gone at 20.30.
					closed up 21.15.
					Still cloudy at 22.00

Date Thursday, November 1-2, 1938 H-T Julian Day 9234

Hour	Amp	End
1	2 ⁰ W	+
2	3 ⁰ W	
3	5 ⁰ W	-
4	3 ⁰ W	.
5	4 ⁰ W	.
6	5 ⁰ W	.
7	5 ⁰ W	.
8	5 ⁰ W	.
9	5 ⁰ W	.
10	5 ⁰ W	.
11	5 ⁰ W	.
12	5 ⁰ W	.
13	5 ⁰ W	.
14	5 ⁰ W	.
15	5 ⁰ W	.
16	5 ⁰ W	.
17	5 ⁰ W	.
18	5 ⁰ W	.
19	5 ⁰ W	.
20	5 ⁰ W	.
21	5 ⁰ W	.
22	5 ⁰ W	.
23	5 ⁰ W	.
24	5 ⁰ W	.

Printer 19.65

Ending Time
E.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
1 29 W	+29 44	0	7.37 B9 1-1-1	Light haze
0 13 W	+29 06	1	6.97 A3 1-1-1	for the young
0 55 W	+17 53	1-2	6.69 K0 1-1-1	Supp list light cloud
1 30 W	+45 16	1-2	7.25 A3 1-1-1	" "
1 45 W	+46 48	1	7.53 K0 1-1-1	Supp list Light cloud
1 18 W	+42 20	1-0	7.51 G0 1-1-1	Supp list
2 27 W	+61 38	1	7.46 G0 1-1-1	Supp list Still thick at 3.30
MC SC SW HT ST Dec. 2 12 -1 40.2 -04.0 +19.0 -21.9^s +0.2^m Dec. 3 10 -1 36.1 -04.2 +23.2 -21.3^s +0.2^m Dec. 5 12 -1 40.4 -04.5 +35.3 -21.8^s +0.2^m Thickening to 0 transparency at 11.45 H-T Dec. 6 12 -1 40.8 -04.9 +39.5 -22.3^s +0.2^m Dec. 7 12 -1 40.9 -03.9^{Post} +45.9 -22.4^s +0.2^m Dec. 8 12 -1 40.9 -04.1 +49.3 -22.9^s +0.2^m Dec. 9 12 -1 40.9 -04.3 +51.5 -23.6^s +0.1^m				
Thickening to 0 transparency at 11.45 H-T thereafter H-T				

Date Monday, December 12-13, 1938 14-1 Julian Day.

[illegible]

clouds + snowflurries in afternoon. clearing off for dark
30

Temp set 22.15^m

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	Supp HE SC SW H.T. S.T. 12 12 -14.4 -04.1 -48.9 -24.2 +0.2
1 19 W	+45 48	1-0	7.34 G5	1-1-1	Supp Sp (Class M) Reset Reset
1 54 W		1	7.30 Ko	1-1-1	Supp Clouds 20 ³⁰ - 20 ⁵⁵
2 10 W	+48 00		7.54 Fo	1-1-1	Supp Star goes most of time 21 ⁵⁰ - Call mean 21 ³⁰ thick. Light snow 22 ⁵⁰ cloud shutters. Cloud 21 ⁵⁰
Dec 13 12 -1.411 -04.5 -08.5 -33.8 -0.4.					
about 10 ¹⁵ - 11 ⁰⁰ , but thick. Then solid with snow.					
Dec 14 12 -1.413 -04.7 -01.7 -33.8 -0.3					
check					
Star 4122 at 18 ⁴⁰ sub time 23 44 ✓					
" " 1943 " 00 47 ✓					
RA * = 23 28 221555?					

Date Wed. Dec 14-15, 1938 Hd. L Julian Day

[illegible]

Pointer at 18.9

32

[illegible]

Date Thurs Dec 15-16, 1927 M-T Julian Day

[illegible]

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

[illegible]

Pointer at 20.82

20m deposit of ice and slush off centre field.

Ending Time
E.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	
3 38 W	44 52	2-1	7.40 B9	1-2-1
1 23 W	29 06	1	6.97 A3	1-2-1
	32 05	2	7.56 A2	1-2

REMARKS

Some clouds after sunset.

for Y

Clouded 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, 1988* H-T Julian Day.

[illegible]

Temp. set 17.15

38

Ending Time
E.S.T.

[illegible]

Date Saturday, Dec 24-25, 1938 - M Julian Day 7

Mr Long with if it clears work on Dr Heard stars

40

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

REMARKS

Ending Time
E.S.T.Hour Angle
End

Declination

Seeing

Ptg. Mag.

23 05

16 23

0

7.50

B9

1-2-1

light haze at 22.20 and 22.40. clouding over
at 22.50

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

Closed dome.

Mirror over - put on blower.

Plate box in dome.

Date Monday Dec 26-27 1938, 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.
							Positively impenetrable cloud at	18.00 hr ✓	
								19.00 " ✓	
								20.00 " ✓ light snow	
								21.00 " ✓	
								22.00 " ✓ snow heavy wind strong	
							Tuesday Dec 27-28, 1958 H-L		
							Strong wind to gale, cloudy + snow most of evening. Two clear intervals last half, but too uncertain, too much wind & blowing snow.		
							Wed Dec 28 Hd. Y swept now from telescope. Note: There		
4138 F	Fans			I-12	Astron II	O10	-14.5		2

Ending Time
 E.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 A.M.

Wound watches Tuesday + Wednesday.

 is ice in the centre piece.
 Outside there base

 Beware when it throws!
 10/10

Date Wed Dec 28-29, 1938 42-L Julian Day

Hour Angle
End

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

Hour	Angle	End
1	28W	3
1	2	13
2	2	2
2	2	1
3	2	1
1	2	1

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.

seeing terrible.

for Y.

Dec. 9th, 1901
on Feb. 1902
frozen. Left by
beginning back and
forth.

Hazy, clouds at 12.00

Clouds 3.15 and later

" 4.15 clearing, stars 6.00

Trouble with clouds, more clouds, haze

10-10

Date Saturday Dec. 31-Jan. 1, 1938-1939 Julian Day.

[illegible]

Cloudy + snow all day. Clearing, but fine snow 21³⁰. Opened up 22⁰⁰.

48

Temp. set 12.8

Ending Time
R.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS																																								
			6.37 B9	Delayed start because of snow coming from shutter on first opening. Cleared up. Then clouded over during setting. Aperture kept 22 ³⁰ . Shutter opened bumpily, and closed very bumpily.																																								
				Found standard time watch stopped. Wound sidereal watch as it was still going.																																								
				alt it is sunset seen.																																								
				<table><tr><th></th><th></th><th></th><th>MC</th><th>SC</th><th>SW.</th><th>MT</th><th>ST</th></tr><tr><td>1939</td><td>Jan. 3</td><td>12</td><td>-136^s.1</td><td>-06^s.3</td><td>+74^s.5</td><td>+05^s.1</td><td>+0^m.7</td></tr><tr><td></td><td>Jan. 4</td><td>12</td><td>-135.7</td><td>-06.8</td><td>+19.8</td><td>+05.6</td><td>+0^m.4</td></tr><tr><td></td><td>Jan. 5</td><td>12</td><td>-129.5</td><td>-07.1</td><td>+23.9</td><td>+06.5</td><td>+0.6</td></tr><tr><td></td><td>Jan. 6</td><td>12</td><td>-135.1</td><td>-07.5</td><td>+29.1</td><td>+06^s.6</td><td>+0^m.5</td></tr></table>				MC	SC	SW.	MT	ST	1939	Jan. 3	12	-136 ^s .1	-06 ^s .3	+74 ^s .5	+05 ^s .1	+0 ^m .7		Jan. 4	12	-135.7	-06.8	+19.8	+05.6	+0 ^m .4		Jan. 5	12	-129.5	-07.1	+23.9	+06.5	+0.6		Jan. 6	12	-135.1	-07.5	+29.1	+06 ^s .6	+0 ^m .5
			MC	SC	SW.	MT	ST																																					
1939	Jan. 3	12	-136 ^s .1	-06 ^s .3	+74 ^s .5	+05 ^s .1	+0 ^m .7																																					
	Jan. 4	12	-135.7	-06.8	+19.8	+05.6	+0 ^m .4																																					
	Jan. 5	12	-129.5	-07.1	+23.9	+06.5	+0.6																																					
	Jan. 6	12	-135.1	-07.5	+29.1	+06 ^s .6	+0 ^m .5																																					
				clear intervals between 10 ³⁰ and 1 ⁰⁰ . Too wet + too cloudy to open up. Clouds + rain again.																																								

alt
it
is

it
is

Date _____ Julian Day _____

[illegible]

50

Ending Time
E.S.T.Hour Angle
End

Declination

Seeing

Ptg. Mag.

REMARKS

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

Date Sunday Jan 8-9 Y-L

Julian Day

[illegible]

Cleared around 9⁰⁰ delayed by short in dec. circles - which I could not find. Was afraid to put heat on. Signals are on all time. did not burn 6 V on in any part of spectrograph for fear there might be a short somewhere with galvanometer circuit.

Ending Time R.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp
11 54	18 ^m W	43 54	1	7.16	B9 1-1-1
11 50	22 ^m W	16 06	1-2	7.13	G5 1-1-1
12 55	1 26 W	13 09	1	7.09	F8 1-1-1
02 44	2 14 W	29 33	1	7.55	A5 1-1-1
1	0 43 E	30 19	1	7.16 6.88	F0 1-1-1
2	0 12 W	29 08	1	7.11	A2 1-1-1
	47 10	1	1	6.59	F2 1-
				7.21	F2
					10/10

REMARKS

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

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

		MC	SE	SW	MT ₅	ST _m
Jan. 9	12	-234.0	-08.1	+45.3	+06.6	+0.5
Jan. 10	12	-134.3	-08.4	+48.1	+07.0	+0.6
Jan. 11	12	-134.3	-08.7	+52.3	+05.5	+0.7

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

Hour Angle
End

MC SC SW MT_s BT_m
 Jan 12 12 -1^m 34.2 -08.5 +58.5 +05.3 +0.7

Partly Clearing from 18¹⁵ on. Opened up about 18⁴⁵. Water dripping from
 Dec axis (attempts end) on moving. None can reach cell. 54

Hour Angle End	Declination	Seeing	Ptg. Mag.	
3 ²² W	+32 38	0	7.40 F5	1-1-1
1 ¹⁶ W	+12 37	0	7.49 K0	1-1-1
1 ²⁶ W	+42 31	0-1	7.41 K0	1-1-1
2 ⁰⁴ W	159 54	1	7.54 K0	1-1-1
2 ²⁸ W	46 06	1-2	6.61 A3	1-1-1
0 ³⁷ W	28 40	0	6.75 A5	1-1-1

Temp at 18.8 REMARKS South with arc.
 Clouds large 19¹⁵ - 19⁴⁰; 19⁵⁰ - 20⁰⁰; 20¹⁵ -
 Supp. Some clouds
 Thick clouds 22⁴⁰ - 23²⁰
 Clouds 0⁴⁰ - 1³⁰
 Hazy, clouds. Thick 240 - 410
 Hazy, clouds. Large 612
 3.15
 MC SC SW MT_s ST_m
 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

ing alt 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
- 4160	MWC 13 HD 9105	01 24.6	62 51	I-12	Auto 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	4D 22124	03 28.8	31 41	"	"	"	-10.6 -3.6	8 11	8 51	4
4163	HD 45194	06 21.0	13 10	"	"	"	-10.5 -3.7	8 57	9 43	1
4164	HD 57049	07 14.5	15 21	"	"	"	-10.5 -3.7	9 48	10 17	2
4165	" 57728	07 17.4	15 33	"	"	"	-10.6 -3.7	10 20	11 14	3
4166	" 58746	07 21.9	29 37	"	"	"	-10.5 -3.7	11 19	0 14	/
4167	60600	01 31.2	31 50	"	"	"	-10.7 -3.7	0 25	1 25	2
4168	62776	05 08.8	13 22	"	"	"	-10.6 -3.7	1 27	2 14	3
4169	78661	09 09.4	11 58	"	"	"	-10.6 -3.7	2 03	2 55	4
4170	84004	09 37.0	32 41	"	"	"	-10.6 -3.7	2 26	3 09	1
4171	96602	10 21.6	45 43	"	"	"	-10.6 -3.7	3 31	4 53	4
- 4172	96528	11 02.3	22 56	"	"	"	-10.6 -3.7	3 58	4 11	3
4173	99202	11 20.5	27 19	"	"	"	-10.6 -3.5	4 15	4 47	3
4174	102555	11 43.2	38 41	"	"	"	-10.6 -3.5	4 50	5 30	1
4175	109411	12 33.1	45 46	"	"	"	-10.6 -3.4	5 33	6 03	2

Pointer at 17.7

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Remarks
7:02	W 50 ^m	63 02	1	7.5 B5se	1,1,1
7:03	W 1 ^h 55	16 40	1	7.59 G5	1,1,1
7:04	W 37 ^m	31 50	2	6.90 F0	1,1,1 for Y
7:05	E 1 ^h 23	13 08	2-3	7.09 F8	1,1,1
7:06	E 1 ^h 43	15 15	2	6.47 P0	1,1,1
7:07	W 48 ^m	15 30	2-3	7.49 G5	1,1,1
7:08	W 12 ^m	29 33	3	7.55 A5	1,1,1
7:09	W 1 09	31 45	3	7.58 B9	1,1,1
7:10	W 1 07	33 15	3	7.48 K0	1,1,1
7:11	W 0 35	11 41	3	6.74 F0	1,1,1 Supp List
7:12	W 0 43	32 34	4	7.52 F2	1-1-1 Supp List
7:13	W 0 46	45 31	4	7.49 K0	1-1-1 Supp List
7:14	W 0 25	23 39	4-3	6.45 A0	1-1-1
7:15	W 0 43	27 06	4-3	7.21 A2	1-1-1 Supp List
7:16	W 1 03	28 45	4-3	7.55 F2	1-1-1 Supp List
7:17	W 0 45	45 35	4-3	7.43 F2	1-1-1 Supp List

Date Sat Jan 14-15/39 Hd-1 ^{Contd.} Julian Day.

[illegible]

[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 1900	Instrument	Emulsion	Slit	Temperature <i>above below</i>	Starting Time E.S.T.	Ending Time E.S.T.		Star Angle Ind
4179	H.D. 16594	2 34.5	31 53	I-12	Astra II	.010	-8.1 -1.4	17 48	19 32	1	3 20W 32
4180	35173	5 17.8	15 55	—	—	—	-8.1 -14	20 34	21	2	16
4181	H.D. 80613	09 15.7	15 48	I-12 1/2	Astra II	^{Set} .010	-9.7	02 35	07 25	1	1 33W
4182	" 91181	10 26.5	44 45	"	"	"	-10.1	03 30	05 40	2	2 35W
4183	136831	15 17.7	12 56	"	"	"	-10.1	05 50	—	3	—
								<i>Cont. with 4184</i>			
								06 05			

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

Date Thurs ~~Wed~~ Jan 19-20, 1938 Hd-T Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature <i>above liquid</i>	Starting Time E.S.T.	Ending Time E.S.T.		How Angle End
4186	HD 9312	01 26.6	16 28	I-12	Astra II	010	-14.6 -7.1	5 53	6 57	<	45
4187	" 22124	03 23.8	31 41	"	"	"	-14.7 -7.4	7 04	7 54	3	
4188	" 22124	"	"	"	"	"	-14.8 -7.4	7 54	8 44	4	
4189	" 22124	"	"	"	"	"	-14.8 -7.8	8 47	9 37	1	
4190	" 22124	"	"	"	"	"	-14.9 -7.6	9 37	10 27	2	45
4191	" 45174	06 21.0	13 10	"	"	"	-14.8 -7.5	10 23	11 19	3	45
4192	" 58746	07 21.9	29 37	"	"	"	-14.9 -7.5	11 24	0 34	1	W 47
4193	" 60800	07 31.2	31 50	"	"	"	-14.9 -7.5	0 39	2 01	1	W 205
4194	" 84004	09 37.0	32 44	"	"	"	-14.9 -7.5	2 04	3 00	2	W 210
- 4195	" 96528	11 02.3	23 52	"	"	"	-14.9 -7.5	2 03	3 27	3	W 202
4196	102555	11 43.2	28 59	"	"	"	-14.9 -7.5	3 30	4 28	A	W 202
4197	109979	12 23.9	45 46	"	"	"	-14.9 -7.5	4 31	5 01	1	W 210
4198	124583	14 11.0	28 12	"	"	"	-14.9 -7.5	5 00	5 02	2	E 049
4199	127531	14 26.9	18 05	"	"	"	-14.9 -7.5	5 53	6 35	3	014
4200	123645	14 04.9	16 05	"	"	"	-14.9 -7.5	6 44	7 12	A	W 244

Poulsen at 14.7

Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
N 1 ^h 05	16 39	1	7.59	G5 1,1,1	
	31 50	0-1	6.90	F0 1,1,1	
	"	1	"	" 1,1,1	
	"	0-1	"	" 1,1,1	
W 5 ^h 33	"	1	"	" 1,1,1	
W 33 ^m	13 09	2	7.09	F8 1,1,1	
W 047	29 33	2	7.55	A5 1,1,1	
W 2 05	31 45	2	7.58	Bq 1,1,1	
W 0 58	32 34	2	7.52	F2 1,1,1	Supp. Seeing variable
W 0 01	23 38	2-3-4	6.45	A 1,1,1	Slight haze. Hdr's best
W 0 22	25 46	2-3	7.55	F2 1,1,1	Supp
W 0 10	45 34	3-4	7.43	F2 1,1,1	"
W 0 49	28 01	3	7.22	A2 1,1,1	"
W 0 14	17 55	3-2	7.58	F5 1,1,1	"
W 0 44	15 55	3	7.09	F5 1,1,1	"
				10-10	Jan 20. 13
				MC	SC
				SW	MTW
					STW
					+23.2
					+0.2
					Reset

Date Monday Jan. 23-24, 1939, 11-4 Julian Day.

[illegible]

Closed dome at 21.15 hr

Jan 24 12 -1 31.6 -11.7 -00.4 -02.6^s +0.4^m
Jan 25 12 -1 31.7 -12.3 +04.7 -02.6^s +04^m

Date Wed Jan 25-26, 1951 46-L Julian Day

[illegible]

70

Pointer at 9.6

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
1 5	W 2 ^L 23	16 39	0	7.59 G5 1,1,1	Dome Temp -1
0 7	W 2 ^L 15	44 46	0	7.88 G6 1,1,1	Image very faint. -5
1 2	W 59 ^M	13 08	0	7.09 F8 1,1,1	
0 3	1 37 W	15 31	0	7.49 G5 1,1,1	
0 0	2 20 W	13 15	0	7.48 K0 1,1,1	-8
2 5	0 22 W	23 40	0	6.45 A2 1,1,1	
3	1 57 W	27 05	0	7.21 A2 1,1,1	Supp. list clouds at 4.40 clearing -10
	28 02	0	0	7.22 A2 1	clouds shortly after start
					Dec clamp stiff, had to climb up on axis twice to release it.
					Could not start flower! too cold!
					MC SC SW MT ST
					Jan 26 12 ^m -1 ^s 31.6 ^s -12.8 ^s +10.2 ^s +01.6 ^m +0.4

Date Thursday Jan 26-27, 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
	18.00 hr. Delayed opening because of haze and cloud clear overhead at 18.30 but clouds general around horizon up At 20.00 still strong haze and cloud over W half of sky. Clouds in E. Haze and light cloud still general at 21.30. Haze seemed lighter at 22.30. above Belux									
4210	HD 47395	6 33.3	28 21	I-12	Astrat II	.010	-22.8 -14.5	2.3 03	23 55	3
4211	63312	7 43.4	46 03	"	"	"	-22.5	00 13	01 33	4
4212	81975	9 24.1	45 12	"	"	"	-22.5	1 37	2 23	7

temp in dome 0°

Ending Time
LST.

Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
to 30° altitude. NE wind.				Pointer 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 sawing lead to left. turned heat off for a little while. ^{Reeds}
Decided to open.				
1 24 W 28 19	1	5.79 B8	1-2-1	
1 52 W 45 57	1-2	7.1 A2	1-2-1	Haze clearing
1 11 W 45 03	2-3	7.26 A5	1-2-1	Light snow 2305 though sky quite clear. Cloud a few flakes on mirror - nothing to worry about. Still light snow at 2400 - sky quite clear. ^{Reeds}
				MC SC S.W. MT ST
Jan. 27 12	-1	31.5	-13.3	+15.9
				+05.2 +0.6

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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 11	I-12	Extra I	010	-17.1	6 07	6 47	2	1/2 02
	Charged	to I-25		I-12 focus was	26.20	telt	19.45				
4213 F	Focus			I-25	Extra II	010				2	1/2 02
4214	HD 5394	00 50.7	60 11	I-25	Proven	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 -8.8	8 18	8 58	3	1/2 26
- 4216	MWC 146 HD 45995	6 25.6	11 19	"	"	"	-15.9 -8.6	9 07	9 41	4	1/2 38
- 4217	MWC 156 HD 50083	6 46.5	5 13	"	"	"	-16.0 -9.0	9 47	11 07	1	1/2 27
- 4218	MWC 190 HD 65875	7 55.8	-2 36	"	"	"	-16.0 -8.9	11 13	0 37	2	1/2 27
4219	HD 75486	8 45.2	+62 20	"	"	"	-16.2 -8.8	0 45	1 35	3	1/2 27
4220	IS 487	8 45.2	59 26	"	"	"	-16.2 -8.8	1 41	2 30	4	1/2 27

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Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
647 2 W 2 ^h 02	60 20	3	2 Bop 4,5,4	
outside the base			no filter 4/4	Set 1 23.2 " 6 23.4 " 9 23.6 Tilt 23.15 Developed: 23.2 is OK
651 1 60 20	3	2 Bop 8, 8	no filter	Set 1 " 5 " 9
851 3 E 26 ^m	40 41	4	6.1 B4ne 3,3,3	Spot 20m
94 4 E 38 ^m	11 20	4	5.8 B2ne 3,3,3	This star has a companion to IV
1117 1 W 27 ^m	+5 10	3	6.8 B2R 3,3,3	
1117 2 W 48 ^m	-2 42	2-3	6.4 B2C 3,3,3	
1117 3 W 56 ^m	+62 11	3-4	6.00 Fo 3,3,3	Long Super Cent Super Cent
	+59 17	3	6.56 Fo 3,3,3	This star has a companion to IV
MC SC SW Jan 28 10 -1^m31.5 -13.8 +19.7 MT ST +09.8 +0.7				

Date Sunday Jan 29-30 Y-L Julian Day 255

[illegible]

[illegible]

Date Tuesday January 31 - February 1 - H-B-L Julian Day.

[illegible]

Cloudy early evening.

78

Printer set 14.9

Ending Time L.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
16 22	2 25 W	+20° 59'	1-2	5.34 B8	no filter 2-2-2	For B.
22	2 55 W	+15 19	1	4.63 B9	2-2-2	"
52	2 21 W	37 14	1	2.71 Aop	7-7-7	" setting 2
67	2 32 W	"	"	"	7-7-7	" " 8
67	2 44 W	"	"	"	3-3	" " 2 When beginning to spot
22	2 50 W	"	"	"	3-3	" " 8 I noticed two diaphragms
	0 54 W	-03 10	1	5.17 B9	2-4	" had to stop, spectrograph close to pier
	2 13 W	+10 55	1-2	5.09 B3	2-2-2	" Have fallen out of tube
						telescope taken East of pier 50.16 off pier
	0 46 W	+88 01	1-2	6.56 Fo	1 filter 3, 3, 3	
	1 53 W	+86 42	1-2	6.54 A2	3, 3, 3	
						MC SC BW MT ST
						Feb. 1 12 -1 ^m 32.5 -15.9 +37.3 +03.8 1.1 ^w
						Feb. 2 12 -1 37.8 -16.2 +41.8 +04.5 +1.2
	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 14 Cloudy					

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
							Above Below				
4229	HD 26398	4 5.4	16 22	I-25 Astra II	.010	-9.7	-2.7	18 18	20 04	1	S.W.
Watch on the blink again. The time standard time had stopped. Did I lose it. Reset in clock room.											
4229 F ₁							Focus test after I-12 in 30 minutes				
4230	HD. 43583	6 11.9	14 05	I-12 Astra II	.010	-9.9	-2.8	21 27	22 43	2	07 W
4231	43683	6 12.4	14 25	—	—	—	-10.0 -2.8	22 45	23 43	3	07 W
4232	5538	3.7 07.6	16 20	—	—	—	-10.0 -2.8	00 50	01 06	4	07 W
4233	69453	8 09.9	16 23	—	—	—	-10.0 -2.8	45	1 15	1	07 W
4234	10569	9 12.5	11 55	—	—	—	-10.0 -2.8	1 50	2 30	2	07 W
4235	98547	11 15.2	17 52	—	—	—	—	2 56			

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

Hour Angle End	Declination	Seeing	Ptg. Mag.	Remarks
				Pointer at 18.65
				MC SC SW MT ST _m
				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} clouds at sunset.
58 W	16 31	0	6.97 B8 4-4.4	image very hazy, clouds at 19.45, remained thick. Decided to change over to I-12
			I-25 at	tilt = 23.17 focus = 23.19
				Turned off heat while changing over, reset pointer again at 18.60, working it up gradually to this point.
				I-12, set tilt at 19.45, focus at 26.20.
				base outside 12, 8. clear again.
07 W	14 04	0	6.46 B9 1-2-1	image very jumpy.
07 W	14 26	0	5.98 A0 1-2-1	clouds over image at 23.30.
09 W	16 17	0	6.66 M6 1-2-1	
15 W	16 17	1	7.13 B8 1-2-1	
57 W	11 49	1	6.29 A0 1-2-1	light haze. Surfs.
	17 35	1-0	6.87 A0 1-2-	Surfs. Haze - Heavy at 20 - 21.45

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.	Hour Angle End
4235 F	Focus test			I-12	Astron II	010	Calor +0.3	3 p.m.		1
4236	HD 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	man 22 44 22 19 ↓	23 31	1
	64106	07 47.2	+47 38							

Partly cloudy all day. Cloudy at dark.

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Ending Time
Z.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS					
Outside the base.				Feb. 6	12	HC	SC	SW	M.T. S.T.
						-1 ^m 33.7	-18.0	-29.0	+23.2 -0.1
Found focus at 26.17. Took test there and at 26.23. about 26.20 best.				Feb. 7	12	-1	34.2	-18.8	-47.0 +23.4 +0.0
2 00W	+28 30	1-2	7.29	G5	1-1-1	Supp.	Heavy Exp for H+K		
1 32W	+42 15	2	7.21	G0	1-1-1	"	Light haze, slowly thickening.		
1 24W	+42 31	2-3	7.41	K0	1-1-1	"	Haze. Thickening badly.		
2 08W	+32 36	2-3	7.43	K0	1-1-	"	Kopalev at 130 Longmont.		
			7.38	K0					
				Feb. 8	12	-1 ^m 34.3	-19.2	-39.8	+25.1 0.0

Date Wednesday February 8-9, Hd-L Julian Day.

Hour	Angle	Dist	Remarks
1	End		

Pointer set at 19.95

Ending Time EST.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
					Thick at 11.00, clearing at 11.15. Started to open at 12.00 was ready to start at 12.25 when sky suddenly clouded up. Breaking at 2.30, mostly clear at 2.45. Thick from 4.00-4.15 clouded up again at 4.40. Thick at 5.15 closed.
0.4	2 ¹⁶ W	27 06	0	7.21 A ₂ 1-1-1	MC SC SW MT ST Feb 9 12 -1^m 34.0 -13.7 -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
					Janit auroral arc in N, h about 25° A 175°-210° noted at 22.00 h.

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	Dist
4241	HD 20277	03 10.5	+31 49	I-12	Astra II	010	-13.8 -6.5	18 50	10 35	3	1 33.4
4242	20367	03 11.5	+30 46	"	"	"	-13.9 -6.6	19 41	20 27	4	2 22.4
4243	30090	04 39.4	+42 09	"	"	"	-13.9 -6.6	20 30	21 22	1	1 15.0
4244	38358	05 40.1	+42 30	"	"	"	-13.9 -6.7	21 25	22 25	2	1 51.4
4245	64106	07 47.2	+47 35	"	"	"	-13.9 -6.6	22 28	23 22	3	1 41.2
4246	64958	07 51.3	+44 15	"	"	"	-13.9 -6.6	23 26	0 26	4	1 41.6
4247	75556	08 45.6	+42 56	"	"	"	-13.8 -6.5	0 32	1 06	1	2 11.0
4248	86166	09 51.7	+45 53	"	"	"	-13.8 -6.7	1 09	2 05	2	2 11.0
4249	93075	10 39.8	+45 26	"	"	"	-13.7 -6.5	2 12	3 06	3	3 11.0
4250	10107	11 32.9	+32 27	"	"	"	-13.8 -6.5	3 11	4 01	4	4 11.0
4251	12466	04 33.1	+43 10	"	"	"	-13.8 -6.6	4 35	5 07	1	5 11.0
4252	13593	15 10.0	+32 09	"	"	"		5 33			
Focus Test outed distance											

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 ice out from under dome wheels. All wheels used tight.

Pointer 15.4

Very windy.

86

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
1	33 W	+31 58	0	7.05 K0 1-1-1	Clear but unsteady. Strong Zodiachal light 19
2	20 W	+30 54	0-1	7.09 G0 1-1-1	Frothy with diff in cloud. Sided spring.
1	47 W	+42 14	1	7.21 G0 1-1-1	
1	50 W	+42 31	1	7.41 K0 1-1-1	Thin Clouds 21 ³⁰ - 21 ⁴⁵ ; 22 ⁰⁰ - 22 ¹⁰
0	40 W	+47 33	1-2	7.38 K0 1-1-1	Being very variable from thin clouds
1	40 W	+44 08	1-2	7.47 K0 1-1-1	
1	26 W	+42 15	2	7.14 K0 1-1-1	
2	20 W	+45 44	2	7.50 K0 1-1-1	
1	33 W	+47 14	2-1	7.31 F0 1-1-1	Seeing Variable
0	W	+32 13	2-1	7.47 F2 1-1-1	Light Clouds 350 - haze - clearing 430
0	02 W	+43 06	+	7.20 F8 1-1-1	Light haze
		+32 02		7.40 K5 1-2	Thin clouds low - snow
				8-5	

M^o 3C 3W M.T S.T.

Tuesday Feb 14-15 H-L Cloudy all evening

Feb. 13

13

-135.1

-21.8

-08.8

-27.0

-0.9

lowing in 11 H-L (<) at 12.45 wind still strong, snowing lightly (L)

clouds at 10.30

Reset

87

Date Thursday February 16-17, 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	Dev
* 4253	HD 18155	02 49.8	+46 45	I-12	Astr II	5x 010"	-17.4 -10.0	18 28	19 18	3	1.5
								↑ All mean	18 45		4
4254 ³	30090	04 39.4	+42 09	"	"	"	-17.5 -10.0	19 43	20 23	4	1.5
4254 ⁴	36859	05 29.6	+27 36	"	"	"	-17.5 -10.0	20 27	21 17	1	1.5
4254 ⁵	45192	06 21.0	+32 38	"	"	"	-17.6 -10.0	21 20	22 30	2	1.5
	64106	07 47.2	+47 38								
* Nothing on plate											

Friday Feb 17-18 M-T.

few stars in zenith occasionally
too cloudy to open up.

Printer out 12.4
 Dome temp +8°F at start

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS				
						MC	SC	SW	HT	ST
1 52W	+46 56	1-2 haze	7.13	KO	1-1-1	Feb. 14 12 -1 35.2	-22.5	-02.1	-26.4	-0.8 ^m
	sky gradually filled in.					Feb. 15 12 -1 35.4	-23.1	+03.9	-26.8	-0.8 ^m
						Feb. 16 12 -1 35.3	-23.8	+09.2	-26.3	-0.8
1 07W	+42 13	1-2	7.21	GO	1-1-1	Light haze				
1 12W	+27 38	1	7.47	KO	1-1-1	Light haze				
1 33W	+32 38	1-2	7.43	KO	1-1-1	Haze thickening 21 ⁵⁰				
			7.38	KO		Clouded over solid just at start				
						Closed up 11 ¹⁰				
						Feb. 17 12 -1 35.4	-24.2	+13.8	-23.0	-0.8 ^m
						Feb. 18 10 -1 35.4	-24.8	+18.2	-22.6	-0.6 ^m

Date Sat Feb 18 - 19 139 11d-7 Julian Day 11d-7

[illegible]

40

Cleared about 1 h

Temp control set 21.2

Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
1 5.6W	45 32	1	7.49 K0 1-1-1	Supp
	28 46		7.55 F2 1-1-1	Supp Light house Thickened rapidly about 4, but images 4.1 Plate numbered 2957
				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 ²⁰⁻²¹ Monday Feb ~~19-20~~ / 1939 M-L Julian Day.

[illegible]

Date *Wed. Feb 22-23, 1939 M-L* Julian Day.

Hour	Angle	End	D
0	14	W	1
1	14	W	15
2	1	W	1
3	1	W	1
4	26	W	3
5	1	W	2
6	1	W	1
7	1	W	1
8	1	W	1
9	1	W	1
10	1	W	1
11	1	W	1
12	1	W	1
13	1	W	1
14	1	W	1
15	1	W	1
16	1	W	1
17	1	W	1
18	1	W	1
19	1	W	1
20	1	W	1
21	1	W	1
22	1	W	1
23	1	W	1
24	1	W	1

94

Pointer at 12.7

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Temp in dome at start = +12°	REMARKS																		
6 2 1/2	0 14 W	15 23	1	7.02 B9	1-2-1																			
9 20 47	1 14 W	15 13	1	6.19 A2	1-2-1	light clouds over most of sky at beginning of exposure. Considerable trouble with arc. Took apart and cleaned.																		
9 22 43	1 11 W	17 03	1	6.80 B9	1-2-1	heavy clouds at 21.20. image faint during thoroughly. remainder of exposure.																		
9 22 2	1 56 W	15 14	1	6.07 A0	1-2-1	image faint at 23.20 due to clouds.																		
9 22 5	2 26 W	13 48	1	7.14 A2	1-2-1																			
9 22 8	2 28 W	29 00	1	6.98 A0	1-2-1	Supp. list. light clouds, thick at 01.45, breaking.																		
9 22 11	1 24 W	13 13	1	6.98 B9	1-2-1	" " clouds just after start.																		
9 22 14		23 24	1	7.04 F0 A2	1-2-1	" " clouds, thick at 4.40. snowing at 4.55, closed eye later.																		
						Blower would not start, apparently too cold.																		
						temp in dome now +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 40.8</td><td>-29.5</td><td>+45.5</td><td>-16.1</td></tr><tr><td>Feb 24</td><td>12</td><td>-1^m 35.0</td><td>-28.9</td><td>+54.1</td><td>-15.7</td></tr></table>			SC	SW	MT	ST	Feb 23	12	-1 ^m 40.8	-29.5	+45.5	-16.1	Feb 24	12	-1 ^m 35.0	-28.9	+54.1	-15.7
		SC	SW	MT	ST																			
Feb 23	12	-1 ^m 40.8	-29.5	+45.5	-16.1																			
Feb 24	12	-1 ^m 35.0	-28.9	+54.1	-15.7																			

Date Fri Feb 24-25, 1939 Nel. T Julian Day

Hour Angle	End
N 2 ^h 01	4
N 1 ^h 20	1
N 2 ^h 10	1
N 2 ^h 25	6

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

Hour	Angle	End	D
17	W	17	
46	W	15	
219	W	13	

Ending Time LST.	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 began clearing as things pretty wet and dry from several places. By 20 ^h temp in dome was 29° and things drier. Decided safe to open, sky rather hazy but clear.
2 28	17 W	17 02	0	6.80 B9	1-2-1 Painter at 21.27
22 01	46 W	15 26	0	6.97 B8	1-2-1
22 03	2 ¹⁴ W	13 48	0	7.14 A2	1-1-1 Haze thickening, quite thick at 00 21 Remained thick, cleared at 1.30.
MC SC SW MT SC					
Feb. 28	12	-1	33.6	-31.2	+13.1 -00.8 +0.0 ^m
Mar. 1	13	-1	33.4	-31.4	+17.6 -01.0 +0.1 ^m

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

[illegible]

100

Painter set 18.25

	MC	SC	SW	MT	ST
Marz 12	-1 ^m 28.5	-31.4	+22.6	-01.8	+01.2 ^m

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

Fri Mar 3-4 1939 Hal - T
Mostly cloudy - then at 2:30
Sat Mar 4-5 Hal 1 Cloudy

Printer set 19.4

Reading Time L.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS																												
12 ¹⁵	0 20 W	+16 39	2	6.15 A2 1-2-1 for M	Light clouds much of time																												
0 ²	1 12 W	+15 51	2	7.16 B9 2-2-1 for M	Stage + light cloud																												
22		+15 17		7.39 A0 1-	2 Red resolved; N + bright companion. Clouds almost from start. moonlight very bright as slit during cloudy time. Closed up 11 ¹⁵ . Partly cloudy overhead at 12, thick in west and east. Thick at 2.30 still thick at 3.00																												
					<table><tr><th></th><th></th><th>MC</th><th>SE</th><th>SW</th><th>MT</th><th>ST</th></tr><tr><td>Mar. 3</td><td>12</td><td>-1^m 32.9</td><td>-31.6^s</td><td>+27.4</td><td>-00.4^s</td><td>+0.2^m</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^s</td><td>+0.1^m</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^s</td><td>+0.1^m</td></tr></table>			MC	SE	SW	MT	ST	Mar. 3	12	-1 ^m 32.9	-31.6 ^s	+27.4	-00.4 ^s	+0.2 ^m	Mar. 4	10	-1 32.5	-31.4	+30.9	-03.0 ^s	+0.1 ^m	Mar. 6	13	-1 32.1	-31.5	+31.5	-04.0 ^s	+0.1 ^m
		MC	SE	SW	MT	ST																											
Mar. 3	12	-1 ^m 32.9	-31.6 ^s	+27.4	-00.4 ^s	+0.2 ^m																											
Mar. 4	10	-1 32.5	-31.4	+30.9	-03.0 ^s	+0.1 ^m																											
Mar. 6	13	-1 32.1	-31.5	+31.5	-04.0 ^s	+0.1 ^m																											

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

[illegible]

Cloudy first part of evening started to
clear about 19.30

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Pointer at	REMARKS
2 3	49W	15 33	1	6.69 89	1-2-1	image clouded over as started to focus at 20.25. fairly high wind. image shows a lot of motion, clouds almost from start & helps by 21.30.
2 2	45W	13 50	1	7.14 A2	1-2	intermittent clouds wind rising again wind became so strong that image rarely in slit. Clouds so general closed dome for a while. Remained thick. Closed up telescope put on blower at 23.20.
						MC SC SW MT ST Mar. 7 12 -1 32.1 -31.7 +45.7 -03.4 +0.0

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

Hour	Angle	End
2	10	W
1	48	W
1	37	W

Ending Time EST.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
20 ¹⁰	2 ¹⁰ W	+42 15	0	7.21 G0 1-2-1	almost no condensation of image. <i>Temperature 13°</i>
21 ³	1 ⁴⁸ W	+32 38	0	7.43 K0 1-2-1	Light clouds but 15"
22 ³	0 ³⁷ W	+42 14	0	7.14 K0 1-2-	Light clouds from start. Gradually thinned up.
				6.99 G5	<i>Temperature 8°</i>
					Closed up 23 ²⁰ still blank.
					Mar 8 13 -1 31.3 -31.5 +47.7 -13.0 -0.2

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

[illegible]

Date Thursday, Mar 9-10, 1939, 11-T Julian Day

[illegible]

Pointer at 16.7

Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
				Cloudy first part of night clearing at 22.00 started to open at 22.30 but clouded over again. Clear at 23.15 spent 40 minutes scraping ice off truck as shutters wouldn't open
	56 34	1-0	7.32	B9 1- Setting 5 - Cloudy from start, snow at 2.00.
1 17 W	44 03	2	7.40	Fu 1-2-1 Setting 9 Mostly cloudy with a few short c. a Sun 18 spells till 5.00.
				Shutters almost closed when I heard a noise like breaking wood. Found that one of the plywood panels of west shutter had somehow come loose. Part of it broke and fell inside. Cleared rail and closed shutters.
				M.C SC SW MT ST Mar. 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

hazy over rapidly, snow at 1.45

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

[illegible]

Pointer at 21:30

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
						Clouds at sunset cleared later. Found dome pretty wet ditch for wiring out ditch gone. got new one. Wiped water out of three pockets of trouble setting through clouds. Found both sidereal watches <u>out</u> by one hour. Considerably delayed by this misfortune.
9 2 35	2 28 W	14 38	2	6.80	B9 1-2-1	thick again but 2030 clear again 2055.
9 22 50	2 47 W	15 18	1-0	7.39	A0 1-2-1	changed setting from middle of plate. Cloudy again at 2250.
						Sky remaining mostly thick until 1.00 then thinned out, at 1.15 reasonably clear.
5	0 ¹⁰ E	29 24	1-2	7.04	F ₀ A ₂ 1-2-1	hazy, Supp
2	0 ⁰³ E	44 02	1	7.40	F ₀ 1-2-1	hazy, light clouds, sky filling in at end
						MC SC SW MT ST
						Mar. 14 12 -1 29.6 -31.9 +03.9 -24.2 +0.1 ^m
						Reset Reset

Date Tuesday, March 14-15, 1939 H-L Julian Day.....[illegible]

Cloudy at first; clearing slowly, but haze with strong E wind.

114

Several minutes lost due to stronger of Alcorn being 4 minutes slow. Checked with clock.

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS	
04 2	1 51 W	+15 35	1	6.69	B9 1-2-1	for M	Very hazy at start. Exposure 20.7
05 2	2 00 W	+44 56	1	6.24	A5 1-2-1	for M	
07 2	0 23 E	+46 06	2	7.13	A2 1-2-1	for M	Very windy. Image small but unsteady
08 2	1 09 E	+28 39	1	6.75	A5 1-2-1	Supp	Light haze 2:30 - 4:5
09 2	0 43 W	+32 07	1-0	7.50	G5 1-2-1	"	wind, violent! haze, seeing terrible
							wind increasing! closed after this exposure, was afraid to work north in this wind.
							MC SC SW MT ST mar. 15 13 -1^m 29^s 3 -32.2 +09.2 -23^s 0 -0^m 1 Rest.

Date Wed. Mar. 15-16, 1938 40 - Julian Day

[illegible]

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

[illegible]

clouds at sunset. Then light snow, gradually
clearing at dawn. Wind.
Temp at 16.4

118

Reading Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
2 ¹⁰	2 06 W	+14 36	2	7.80 B9	1-2-1 for M Wind at times made it hard to keep ^{entirely} F _x off alt
2 ⁵	1 42 W	+47 53	2-1	7.38 K0	1-2-1 Supp Light clouds.
2 ¹²	1 31 W	+42 15	1	7.14 K0	1-2-1 Light clouds.
	1 21 W			7.50 K0	1-2-1 (*) Clouds 23 ³⁰
3 ¹⁴	+25 W	+75 19	2	7.19 K0	1-2-1 Clouds, haze - cleared partly by 1 ⁰⁵ Fairly thick but getting Haze tells so then became dark. Much haze at 2 ⁰⁰ . Still thick haze at 4 ⁴⁵
(*) Only one half the comparison shown MC SC SW MT ST mar. 17 12 -1^m28.9 -33.2 +19.5 19.0 +0.2					
test exposures - under development Comparison seems O.K.					

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

Hour Angle
End

120

Pomites at 15.1

[illegible]

121

Date Saturday, Mar 18-19, 1939, M-T Julian Day.

[illegible]

Pointer at 15.63

Ending Time R.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
21 5	3 19W	15 01	0-0	7.27 B9	1-2-1 / <i>Photo numbered 4306</i> <i>They covered by fast drifting clouds just after sunset.</i>
23 10 1	3 27W	15 18	0-0	7.39 A0	1-2-1 / <i>Photo numbered 4307</i>
04 4 2	2 16W	27 40	0	6.59 A0	1-2-1 / <i>Numbered 4307</i>
0 2	2 01W	17 29	0-0	7.09 A2	1-2-1
3 5	0 36W	31 30	0	7.25 A0	1-2-1
0 10 1	0 12W	44 02	0.1-2	7.40 F0	1-2-1
1 16W	13 29	1	7.52 F2	1-2-1	
					MC SC SW MT ST <i>Mar. 20 12</i> -1 27.3 -34.4 +34.6 ^s-11.0 ^m+0.6

Date Monday, Mar 20-21, 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.	Hour Angle End
							Above Below			
4312	HD 43044 F	6 9.0	14 38	I-12	Astron II	010	-9.6 -2.7	19 50	21 30	3 52 W
4313	80580	9 15.6	32 41	-	-	-	-9.7 -2.6	21 34	22 28	4 43 W
4314	92278	10 34.2	47 22	-	-	-	-9.3 -2.7	22 32	00 04	1 01 W
4315	108714	12 24.3	17 53	"	"	"	-9.3 -2.7	00 10	02 10	3 13 W
4316	136831	15 17.7	12 56	"	"	"	-9.5 -2.7	02 17	03 01	4 04 E
4317	144839	16 02.8	13 36	"	"	"	-9.5 -2.7	03 05	04 53	1 03 W
4318	165910	18 03.2	13 03	"	"	"	-9.5 -2.6	04 57	05 45	2 04 E
Wed Mar 22 Hd Put on 25" Cam. I-12 focus 2										
4318 F	Focus			I-25	Astron II	010	-8.5			2 1/2
4318 F ₂	"			"	"		-8.5			2
Wed Mar 22-23 Hd - L Cloudy / Thurs Mar 23-24 Hd T. Partly clear, occa- Haze cleared - 11-12-13-14-15-16-17-18-19-20-21-22-23-24-25-26-27-28-29-30-31-32-33-34-35-36-37-38-39-40-41-42-43-44-45-46-47-48-49-50-51-52-53-54-55-56-57-58-59-60-61-62-63-64-65-66-67-68-69-70-71-72-73-74-75-76-77-78-79-80-81-82-83-84-85-86-87-88-89-90-91-92-93-94-95-96-97-98-99-100-101-102-103-104-105-106-107-108-109-110-111-112-113-114-115-116-117-118-119-120-121-122-123-124-125-126-127-128-129-130-131-132-133-134-135-136-137-138-139-140-141-142-143-144-145-146-147-148-149-150-151-152-153-154-155-156-157-158-159-160-161-162-163-164-165-166-167-168-169-170-171-172-173-174-175-176-177-178-179-180-181-182-183-184-185-186-187-188-189-190-191-192-193-194-195-196-197-198-199-200-201-202-203-204-205-206-207-208-209-210-211-212-213-214-215-216-217-218-219-220-221-222-223-224-225-226-227-228-229-230-231-232-233-234-235-236-237-238-239-240-241-242-243-244-245-246-247-248-249-250-251-252-253-254-255-256-257-258-259-260-261-262-263-264-265-266-267-268-269-270-271-272-273-274-275-276-277-278-279-280-281-282-283-284-285-286-287-288-289-290-291-292-293-294-295-296-297-298-299-300-301-302-303-304-305-306-307-308-309-310-311-312-313-314-315-316-317-318-319-320-321-322-323-324-325-326-327-328-329-330-331-332-333-334-335-336-337-338-339-340-341-342-343-344-345-346-347-348-349-350-351-352-353-354-355-356-357-358-359-360-361-362-363-364-365-366-367-368-369-370-371-372-373-374-375-376-377-378-379-380-381-382-383-384-385-386-387-388-389-390-391-392-393-394-395-396-397-398-399-400-401-402-403-404-405-406-407-408-409-410-411-412-413-414-415-416-417-418-419-420-421-422-423-424-425-426-427-428-429-430-431-432-433-434-435-436-437-438-439-440-441-442-443-444-445-446-447-448-449-450-451-452-453-454-455-456-457-458-459-460-461-462-463-464-465-466-467-468-469-470-471-472-473-474-475-476-477-478-479-480-481-482-483-484-485-486-487-488-489-490-491-492-493-494-495-496-497-498-499-500-501-502-503-504-505-506-507-508-509-510-511-512-513-514-515-516-517-518-519-520-521-522-523-524-525-526-527-528-529-530-531-532-533-534-535-536-537-538-539-540-541-542-543-544-545-546-547-548-549-550-551-552-553-554-555-556-557-558-559-560-561-562-563-564-565-566-567-568-569-570-571-572-573-574-575-576-577-578-579-580-581-582-583-584-585-586-587-588-589-590-591-592-593-594-595-596-597-598-599-600-601-602-603-604-605-606-607-608-609-610-611-612-613-614-615-616-617-618-619-620-621-622-623-624-625-626-627-628-629-630-631-632-633-634-635-636-637-638-639-640-641-642-643-644-645-646-647-648-649-650-651-652-653-654-655-656-657-658-659-660-661-662-663-664-665-666-667-668-669-670-671-672-673-674-675-676-677-678-679-680-681-682-683-684-685-686-687-688-689-690-691-692-693-694-695-696-697-698-699-700-701-702-703-704-705-706-707-708-709-710-711-712-713-714-715-716-717-718-719-720-721-722-723-724-725-726-727-728-729-730-731-732-733-734-735-736-737-738-739-740-741-742-743-744-745-746-747-748-749-750-751-752-753-754-755-756-757-758-759-760-761-762-763-764-765-766-767-768-769-770-771-772-773-774-775-776-777-778-779-780-781-782-783-784-785-786-787-788-789-790-791-792-793-794-795-796-797-798-799-800-801-802-803-804-805-806-807-808-809-810-811-812-813-814-815-816-817-818-819-820-821-822-823-824-825-826-827-828-829-830-831-832-833-834-835-836-837-838-839-840-841-842-843-844-845-846-847-848-849-850-851-852-853-854-855-856-857-858-859-860-861-862-863-864-865-866-867-868-869-870-871-872-873-874-875-876-877-878-879-880-881-882-883-884-885-886-887-888-889-890-891-892-893-894-895-896-897-898-899-900-901-902-903-904-905-906-907-908-909-910-911-912-913-914-915-916-917-918-919-920-921-922-923-924-925-926-927-928-929-930-931-932-933-934-935-936-937-938-939-940-941-942-943-944-945-946-947-948-949-950-951-952-953-954-955-956-957-958-959-960-961-962-963-964-965-966-967-968-969-970-971-972-973-974-975-976-977-978-979-980-981-982-983-984-985-986-987-988-989-990-991-992-993-994-995-996-997-998-999-1000-1001-1002-1003-1004-1005-1006-1007-1008-1009-1010-1011-1012-1013-1014-1015-1016-1017-1018-1019-1020-1021-1022-1023-1024-1025-1026-1027-1028-1029-1030-1031-1032-1033-1034-1035-1036-1037-1038-1039-1040-1041-1042-1043-1044-1045-1046-1047-1048-1049-1050-1051-1052-1053-1054-1055-1056-1057-1058-1059-1060-1061-1062-1063-1064-1065-1066-1067-1068-1069-1070-1071-1072-1073-1074-1075-1076-1077-1078-1079-1080-1081-1082-1083-1084-1085-1086-1087-1088-1089-1090-1091-1092-1093-1094-1095-1096-1097-1098-1099-1100-1101-1102-1103-1104-1105-1106-1107-1108-1109-1110-1111-1112-1113-1114-1115-1116-1117-1118-1119-1120-1121-1122-1123-1124-1125-1126-1127-1128-1129-1130-1131-1132-1133-1134-1135-1136-1137-1138-1139-1140-1141-1142-1143-1144-1145-1146-1147-1148-1149-1150-1151-1152-1153-1154-1155-1156-1157-1158-1159-1160-1161-1162-1163-1164-1165-1166-1167-1168-1169-1170-1171-1172-1173-1174-1175-1176-1177-1178-1179-1180-1181-1182-1183-1184-1185-1186-1187-1188-1189-1190-1191-1192-1193-1194-1195-1196-1197-1198-1199-1200-1201-1202-1203-1204-1205-1206-1207-1208-1209-1210-1211-1212-1213-1214-1215-1216-1217-1218-1219-1220-1221-1222-1223-1224-1225-1226-1227-1228-1229-1230-1231-1232-1233-1234-1235-1236-1237-1238-1239-1240-1241-1242-1243-1244-1245-1246-1247-1248-1249-1250-1251-1252-1253-1254-1255-1256-1257-1258-1259-1260-1261-1262-1263-1264-1265-1266-1267-1268-1269-1270-1271-1272-1273-1274-1275-1276-1277-1278-1279-1280-1281-1282-1283-1284-1285-1286-1287-1288-1289-1290-1291-1292-1293-1294-1295-1296-1297-1298-1299-1300-1301-1302-1303-1304-1305-1306-1307-1308-1309-1310-1311-1312-1313-1314-1315-1316-1317-1318-1319-1320-1321-1322-1323-1324-1325-1326-1327-1328-1329-1330-1331-1332-1333-1334-1335-1336-1337-1338-1339-1340-1341-1342-1343-1344-1345-1346-1347-1348-1349-1350-1351-1352-1353-1354-1355-1356-1357-1358-1359-1360-1361-1362-1363-1364-1365-1366-1367-1368-1369-1370-1371-1372-1373-1374-1375-1376-1377-1378-1379-1380-1381-1382-1383-1384-1385-1386-1387-1388-1389-1390-1391-1392-1393-1394-1395-1396-1397-1398-1399-1400-1401-1402-1403-1404-1405-1406-1407-1408-1409-1410-1411-1412-1413-1414-1415-1416-1417-1418-1419-1420-1421-1422-1423-1424-1425-1426-1427-1428-1429-1430-1431-1432-1433-1434-1435-1436-1437-1438-1439-1440-1441-1442-1443-1444-1445-1446-1447-1448-1449-1450-1451-1452-1453-1454-1455-1456-1457-1458-1459-1460-1461-1462-1463-1464-1465-1466-1467-1468-1469-1470-1471-1472-1473-1474-1475-1476-1477-1478-1479-1480-1481-1482-1483-1484-1485-1486-1487-1488-1489-1490-1491-1492-1493-1494-1495-1496-1497-1498-1499-1500-1501-1502-1503-1504-1505-1506-1507-1508-1509-1510-1511-1512-1513-1514-1515-1516-1517-1518-1519-1520-1521-1522-1523-1524-1525-1526-1527-1528-1529-1530-1531-1532-1533-1534-1535-1536-1537-1538-1539-1540-1541-1542-1543-1544-1545-1546-1547-1548-1549-1550-1551-1552-1553-1554-1555-1556-1557-1558-1559-1560-1561-1562-1563-1564-1565-1566-1567-1568-1569-1570-1571-1572-1573-1574-1575-1576-1577-1578-1579-1580-1581-1582-1583-1584-1585-1586-1587-1588-1589-1590-1591-1592-1593-1594-1595-1596-1597-1598-1599-1600-1601-1602-1603-1604-1605-1606-1607-1608-1609-1610-1611-1612-1613-1614-1615-1616-1617-1618-1619-1620-1621-1622-1623-1624-1625-1626-1627-1628-1629-1630-1631-1632-1633-1634-1635-1636-1637-1638-1639-1640-1641-1642-1643-1644-1645-1646-1647-1648-1649-1650-1651-1652-1653-1654-1655-1656-1657-1658-1659-1660-1661-1662-1663-1664-1665-1666-1667-1668-1669-1670-1671-1672-1673-1674-1675-1676-1677-1678-1679-1680-1681-1682-1683-1684-1685-1686-1687-1688-1689-1690-1691-1692-1693-1694-1695-1696-1697-1698-1699-1700-1701-1702-1703-1704-1705-1706-1707-1708-1709-1710-1711-1712-1713-1714-1715-1716-1717-1718-1719-1720-1721-1722-1723-1724-1725-1726-1727-1728-1729-1730-1731-1732-1733-1734-1735-1736-1737-1738-1739-1740-1741-1742-1743-1744-1745-1746-1747-1748-1749-1750-1751-1752-1753-1754-1755-1756-1757-1758-1759-1760-1761-1762-1763-1764-1765-1766-1767-1768-1769-1770-1771-1772-1773-1774-1775-1776-1777-1778-1779-1780-1781-1782-1783-1784-1785-1786-1787-1788-1789-1790-1791-1792-1793-1794-1795-1796-1797-1798-1799-1800-1801-1802-1803-1804-1805-1806-1807-1808-1809-1810-1811-1812-1813-1814-1815-1816-1817-1818-1819-1820-1821-1822-1823-1824-1825-1826-1827-1828-1829-1830-1831-1832-1833-1834-1835-1836-1837-1838-1839-1840-1841-1842-1843-1844-1845-1846-1847-1848-1849-1850-1851-1852-1853-1854-1855-1856-1857-1858-1859-1860-1861-1862-1863-1864-1865-1866-1867-1868-1869-1870-1871-1872-1873-1874-1875-1876-1877-1878-1879-1880-1881-1882-1883-1884-1885-1886-1887-1888-1889-1890-1891-1892-1893-1894-1895-1896-1897-1898-1899-1900-1901-1902-1903-1904-1905-1906-1907-1908-1909-1910-1911-1912-1913-1914-1915-1916-1917-1918-1919-1920-1921-1922-1923-1924-1925-1926-1927-1928-1929-1930-1931-1932-1933-1934-1935-1936-1937-1938-1939-1940-1941-1942-1943-1944-1945-1946-1947-1948-1949-1950-1951-1952-1953-1954-1955-1956-1957-1958-1959-1960-1961-1962-1963-1964-1965-1966-1967-1968-1969-1970-1971-1972-1973-1974-1975-1976-1977-1978-1979-1980-1981-1982-1983-1984-1985-1986-1987-1988-1989-1990-1991-1992-1993-1994-1995-1996-1997-1998-1999-2000-2001-2002-2003-2004-2005-2006-2007-2008-2009-2010-2011-2012-2013-2014-2015-2016-2017-2018-2019-2020-2021-2022-2023-2024-2025-2026-2027-2028-2029-2030-2031-2032-2033-2034-2035-2036-2037-2038-2039-2040-2041-2042-2043-2044-2045-2046-2047-2048-2049-2050-2051-2052-2053-2054-2055-2056-2057-2058-2059-2060-2061-2062-2063-2064-2065-2066-2067-2068-2069-2070-2071-2072-2073-2074-2075-2076-2077-2078-2079-2080-2081-2082-2083-2084-2085-2086-2087-2088-2089-2090-2091-2092-2093-2094-2095-2096-2097-2098-2099-2100-2101-2102-2103-2104-2105-2106-2107-2108-2109-2110-2111-2112-2113-2114-2115-2116-2117-2118-2119-2120-2121-2122-2123-2124-2125-2126-2127-2128-2129-2130-2131-2132-2133-2134-2135-2136-2137-2138-2139-2140-2141-2142-2143-2144-2145-2146-2147-2148-2149-2150-2151-2152-2153-2154-2155-2156-2157-2158-2159-2160-2161-2162-2163-2164-2165-2166-2167-2168-2169-2170-2171-2172-2173-2174-2175-2176-2177-2178-2179-2180-2181-2182-2183-2184-2185-2186-2187-2188-2189-2190-2191-2192-2193-2194-2195-2196-2197-2198-2199-2200-2201-2202-2203-2204-2205-2206-2207-2208-2209-2210-2211-2212-2213-2214-2215-2216-2217-2218-2219-2220-2221-2222-2223-2224-2225-2226-2227-2228-2229-2230-2231-2232-2233-2234-2235-2236-2237-2238-2239-2240-2241-2242-2243-2244-2245-2246-2247-2248-2249-2250-2251-2252-2253-2254-2255-2256-2257-2258-2259-2260-2261-2262-2263-2264-2265-2266-2267-2268-2269-2270-2271-2272-2273-2274-2275-2276-2277-2278-2279-2280-2281-2282-2283-2284-2285-2286-2287-2288-2289-2290-2291-2292-2293-2294-2295-2296-2297-2298-2299-2300-2301-2302-2303-2304-2305-2306-2307-2308-2309-2310-2311-2312-2313-2314-2315-2316-2317-2318-2319-2320-2321-2322-2323-2324-2325-2326-2327-2328-2329-2330-2331-2332-2333-2334-2335-2336-2337-2338-2339-2340-2341-2342-2343-2344-2345-2346-2347-2348-2349-2350-2351-2352-2353-2354-2355-2356-2357-2358-2359-2360-2361-2362-2363-2364-2365-2366-2367-2368-2369-2370-2371-2372-2373-2374-2375-2376-2377-2378-2379-2380-2381-2382-2383-2384-2385-2386-2387-2388-2389-2390-2391-2392-2393-2394-2395-2396-2397-2398-2399-2400-2401-2402-2403-2404-2405-2406-2407-2408-2409-2410-2411-2412-2413-2414-2415-2416-2417-2418-2419-2420-2421-2422-2423-2424-2425-2426-2427-2428-2429-2430-2431-2432-2433-2434-2435-2436-2437-2438-2439-2440-2441-2442-2443-2444-2445-2446-2447-2448-2449-2450-2451-2452-2453-2454-2455-2456-2457-2458-2459-2460-2461-2462-2463-2464-2465-2466-2467-2468-2469-2470-2471-2472-2473-2474-2475-2476-2477-2478-2479-2										

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Pointer at 18.00

Ending Time L.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS																													
					Considerably delayed in opening as found <u>every inch</u> of telescope covered with snow.																													
21 30 3	2 52 W	14 35	0	(6.80) B9	1-2-1																													
22 28 4	0 43 W	32 31	2-1	6.58 A0	1-2-1																													
24 1	1 01 W	47 16	2-0	7.36 A2	1-2-1	seeing unsteady.																												
27 3	1 18 W	17 40	0-1	7.52 A0	1-2-1	Supp. lost																												
27 1 2	0 44 E	12 16	0-1	6.20 A0	1-2-1																													
53 1	0 23 W	13 31	0-1	7.52 F2	1-2-1																													
55 2	0 45 E	13 05	0-1	6.46 A0	1-2-1																													
						<table><tr><th></th><th></th><th>M.P.</th><th>SC</th><th>SW</th><th>M.T.</th><th>S.T.</th></tr><tr><td>Mar. 21</td><td>12</td><td>-1^m 26.8</td><td>-34.8</td><td>+34.1^s</td><td>-09.0^s</td><td>+0.1^m</td></tr><tr><td>Mar. 22</td><td>12</td><td>-1 26.4</td><td>-35.5</td><td>+40.5</td><td>-08.8^s</td><td>+0.2^m</td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td>-00.1^m</td></tr></table>			M.P.	SC	SW	M.T.	S.T.	Mar. 21	12	-1 ^m 26.8	-34.8	+34.1 ^s	-09.0 ^s	+0.1 ^m	Mar. 22	12	-1 26.4	-35.5	+40.5	-08.8 ^s	+0.2 ^m							-00.1 ^m
		M.P.	SC	SW	M.T.	S.T.																												
Mar. 21	12	-1 ^m 26.8	-34.8	+34.1 ^s	-09.0 ^s	+0.1 ^m																												
Mar. 22	12	-1 26.4	-35.5	+40.5	-08.8 ^s	+0.2 ^m																												
						-00.1 ^m																												
not recorded, tilt was 19.45																																		
Outside temp bar																																		
no falling 4/4																																		
Set 1 23.0						tilt 23.15																												
" 6 23.2																																		
" 9 23.4																																		
Set 1 23.5						23.7 is ok																												
" 6 23.6																																		
" 9 23.7																																		
with lamp. Started to open 11.00 Thru 11.20																																		
broken. Still bad at 23.0																																		

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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
		<i>Look off</i>		I-25	<i>focus at</i>		23.7	<i>tilt at</i>	23.15	
4318 F3										
							<i>Above Below</i>			
4319	H.D. 43044 P	6 9.0	14 38	I-12	astral II	.010	H _i +7.2	19 19	21 01	3
4320	77986	9 0.6	16 15	—	—	—	+11.0 +7.2	21 04	23 02	4
4321	99004	11 18.5	17 42	—	—	—	+11.0 +7.2	23 05	00 15	1
4322	108714	12 24.3	17 53	—	—	—	+11.0 +7.4	0 24	1 44	2
4323	124587-8	14 09.4	24 35	—	—	—	+11.0 +7.3	1 47	2 43	3
32 4324	124586	14 09.4	31 40	—	—	—	+11.0 +7.3	2 47	3 59	4
32 4325	144839	16 02.8	13 56	—	—	—	+11.0 +7.3	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
23:00	Put on I-12				set alt to 19.45. Look from tent at 26.20 setting 5. 26.30 seemed satisfactory, left it at this setting light clouds after sunset.
23:01	2 39 W	14 38	1	(6.80) B9	1-2-1 somewhat hazy.
23:02	1 48 W	16 07	1	7.25 B9	1-2-1 haze thicker, still may stay invisible.
00:00	0 44 W	17 30	1	7.09 A2	1-2-1
00:01	1 07 W	17 40	1	7.52 A0	1-2-1
00:03	0 22 W	24 24	1	7.04 A0-F0	1-2-1
00:04	1 37 W	31 30	1	7.25 A0	1-2-1
00:05	1 29 W	33 29	1	7.52 F2	1-2-1 light haze. Clouds 5.20
					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 ^s
					↑ correction at 10 (J.F.H.)

Date Mon Mar 27-28, 1939 64-B Julian Day

Hour	Angle	End
	119°	
	59°	
	150°	
	231°	
	32°	
	252°	

123

Beams of the water

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

Hour	Angle	End
15		
23	N	
225	N	
201W		
155	N	
3		
30E		
04-		
04-		

			M.C.	S.C.	S.W. _s	M.T. _s	S.T. _n
Mar 29	12	-1	25.1	-39.5	-11.1	+02.3	+2.9
"	30	12	-1	27.0	-40.0	-07.6	+02.5 ^s +2.9 ⁿ
Range - Shokland River							
Mar. 31	12	-1	24.4	-40.3	-05.0	+02.0	+3.2 ⁿ
Apr.	1	10	-1	25.1	-41.7	-06.7	+01.8 +2.8 ^{net}

Date Sat ap 1-2, 1939 Hol. T Julian Day.

[illegible]

Rain earlier clearing gradually from 8.50
 pointed at 23.3

732

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
10 35 4	W 1 ^h 15 ^m	42 20	2	6.90 A3 1,2,1	Snuff list.
11 35 1	N 52 ^m	23 38		6.45 A2 1,2,1	
1 38 W	W 54 ^m		2	7.43 F2 1,2-1	Snuff Scattered clouds
3 38 W	1 38 W	28 02	1	7.22 A2 1-2-1	Clouds 1 14- with high wind closed shutters. Mostly cloudy, less wind at 205
		16 08		7.33 G3 0 1-	Clouds 4 05, snow, rain 4 20 closed shutters
MC SC SW M.T. ST Apr. 3 12 -1 24.6 -42.6 +04.0 +04.8 +03.1					

Date Monday, Apr 3-4, 1939, M-L Julian Day 1939074

[illegible]

139

Clearing at sunset - fairly strong NW wind

Ponterat 20.20.

REMARKS

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

2 48W	14 38	2-1	(6.80) B9 1-2-1
-------	-------	-----	-----------------

0 46W	16 53	3	6.93 A5 1-2
-------	-------	---	-------------

R.A. stamp sticking a bit. Heavy clouds at 20.55. Clouds remained clear.

MC

SC

SW

M.T.

S.T.

Apr. 4	12	-1 ^m 24.0	-43 ^s .0	+06 ^s .4	+05 ^s .6	+3 ^m .2
--------	----	----------------------	---------------------	---------------------	---------------------	--------------------

Date *Tuesday, April 4-5, 1939, H-L* Julian Day

Hour Angle
End

136

Reading Time
E.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS	
1 42 W	+44 56	1	6.24	A5 1-2-1	for M	5
1 42 W	+47 33	2-1	7.38	K0 1-2-1	Supp	9 N
0 42 W	+45 43	1	7.50	K0 1-2-1	"	"
1 05 W	+57 15	1-2	7.31	F0 1-2-1	"	"
1 22 W	+57 06	2-3	7.24	F0 1-2-1	"	Image in. focusing rapidly
0 46 W	+75 48	2-3	7.19	K0 1-2-1	Gen. prog.	seeing variable
2 03 W	+28 38	1	6.75	A5 1-2-1	Supp	seeing blowing up
1 01 W	+32 01	1-0	7.40	K5 1-2-1	"	"
0 18 E	+29 56	1-2	7.57	G0 1-2-1	"	"
					MC	SC SW
						M.T. ST
					Apr. 5 12	-1 ^m 24.8 -43.8 +09.8 +07.3 +03.2 ^m
					" 6 13	-1 ^m 25.0 -44.3 +12.7 +07.8 +03.4 ^m

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

[illegible]

Temp. wet 20.4/

130

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
5	0 46 W	+27 43	1-2	6.44 B9	1-2-1 Southern + brighter of pair some 8' apart.
23	1 21 W	+60 27	3-4	7.50 F0	1-2-1 Thickening up 22 ⁴⁰ —. Completely cloudy 23 ⁰⁵ —
				6.51 F0	Mostly thick haze till 3.30. Then cleared for 1 hr. Clouds came down.
					Clouds right after setting in morning at 4.30. Closed.

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

Hour	Angle	End
4	61	
2	11 W	
	33 W	
1	10	
2	5	
2	57 W	

140

Pointer at 21.17

Ending Time L.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
					Cleared just before sunset
23-2	4 00 W	15 23	2-0	7.02 B9	1-2-1 Key, both chair and wt. on spectrograph.
23-3	2 11 W	32 55	2-1	6.66 A0	1-2-1 Bright auroral zone near N. Horizon at 20.50.
23-4	1 33 W	47 10	2	7.36 A2	1-2-1 " " very faint, not low
0.1	1 13 W	46 49	2	6.46 A0	1-2-1 This the preceding star, a wide double in itself double, 2nd. south with bright companion
1.2	2 31 W	46 48	2-1	6.74 B9	1-2-1 Plates ^{435.7} 435.7 - 436.1 secured - opened flatbox in light
2.3	2 07 W	31 28	2-1	7.25 A2	1-2-1
		77 43	2-1	6.66 A0	1-2-1 Partly cloudy, from 400 - 430 then mostly thick.

Date Sunday April 9-10 Y-T3 Julian Day.

[illegible]

142

Ending Time R.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp.	REMARKS
9 34 1	2 ^m W	27 41	3-2	6.95	F5	1/2 1/2 1/2	
9 28 2	39 ^m W	30 23	2-1	6.82	A5	1/2 1/2 1/2	
10 26 3	42 ^m W	27 51	2	6.99	A2	1/2 1/2 1/2	
11 10 4	17 W	29 12	3-2	7.11	A2	1/2 1/2	clouded 11 ¹⁰ -
				7.21	F2		
Apr 10-11 heavy snow storm.							
							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.....

[illegible]

clouds all afternoon + early evening. Thinning from 20¹⁵ on. Then 2-3 mag haze, and light fog. Still some haze 22³⁰, on opening. Temp sat 24.6

144

Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
1 39 W	+56 56	1	6.54 G5 1-2-1	Supp. Light clouds. Moderate sun 21 ²⁰ -
2 08 W	+59 38	2	6.66 K0 1-2-1	"
	+72 15	2	7.44 K0 1-2	" fog and haze thickening. thick at 00 ³⁰
				MC SC SW MT ST
				Apr. 12 13 ^h -1 22.3 -47.7 +42.2 +09 ³ .0 +03 ^m .5

may 20.30 and started to open up but clouded over before
could start observing. Remained thick.

Apr 13 12^h -1 22.3 -48.2 +49.2 +09³.2 +03^m.6

Date Thurs April 13-14, 1939 14d-T Julian Day

Hour Angle
End

196

[illegible]

747

Date Saturday April 15-16, 1939 H-T

Julian Day.

[illegible]

143

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 ⁰¹ 2	2 36 W	+47 23	0	7.38 K0 1-2-1	mirror figure very poor.
2 ⁰² 3	2 34 W	+42 15	0	7.14 K0 1-2-1	mirror improving; seeing still poor.
2 ⁰³ 4	2 00 W	+57 15	1	7.31 F0 1-2-1	
2 ⁰⁴ 1	2 38 W	+57 04	1-2	7.24 F0 1-2-1	
2 ⁰⁵ 2	0 49 W	+57 54	2	7.47 F0 1-2-1	
2 ⁰⁶ 3	1 18 W	+58 06	2-1	7.46 K0 1-2-1	
2 ⁰⁷ 4	0 33 W	+43 37	2-1	7.20 A2 1-2-1	
				10-10	

Date Sunday April 16-17 Y- L

Julian Day

[illegible]

150

pointer 22.8

Ending Time
2.3.7.

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	cloudy at beg ⁿ .
1 08 W	27 51	1	6.99 A ₂	1/2 1/2	nothing much after 10 th .
			7.21 F ₂		
					sky still hopeless at 1.30, closed.
					Longworth.
					M.R. SC SW HT ST.
					Apr. 17 12 -1 20.6 -49.2 +10.4 ^s +15.0 ^s +3.7 ^m
					+04.9 - adv. Am.
					Apr. 17-18 rain - clear for while about 12 - rain
					Apr. 18 12 -1 20.3 -49.5 +10.8 +14.7 ^s +3.9 ^m
					Apr. 19 13 -1 20.3 -50.1 +16.3 +14.2 +3.9
					Apr. 20 14 -1 19.7 -50.4 +18.1 +13.6 ^s +4.1 ^m

short time at midnight then
rain again.

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

Friday, April 21-22, 1939 M-T

Cloudy with high S. wind.

Clouds + rain most of day; clearing 2nd afternoon.
 much water in main casting - wiped dry.
 Temp at 26.6

152

Ending Time R.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
46 21 ?	2 27 W	+44 10	2-3	7.47	K0 1-2-1	Light clouds occasionally.
26 2 L	2 02 W	+45 42	2-1	7.58	K0 1-2-1	Clouded over solid 20 ⁵⁵ - 21 ¹⁵ ; stars ^{then fairly clear} spread out with = 15.40
23 ⁵ 21 1	1 56 W	+44 55	2	7.14	F0 1-2-1	Hazy + clouds
10 ² 21 2	11 W	+43 05	3-2	7.20	F8 1-2-1	Hazy
	161 54	2-1	7.10	A	1-2-1	Hazy quite dark no - 230. Slide 3-4
						MC SC SW MT ST
						Apr. 21 12 -1 19.9 -50.9 +19.6 +14.1^s +4.1^m
						" 22 10 -1 20.0 -51.4 +22.6^s +13.0^m +4.3

Date Sat April 22-23, 1939 Hd- Julian Day.

[illegible]

Ending Time
E.S.T.

Date Monday, Apr. 24-25, 1939, M-L Julian Day 2444150

[illegible]

156

Clouds after sunset - clearer later.

Ending Time
E.S.T.Hour Angle
End

Declination

Seeing

Ptg. Mag.

Pointer at 13.24 REMARKS Top plug in

Bright auroral rays in north at 20.00. Many sharp rays
 on 2/3 of sky coming to definite focus at $\delta + 27^\circ$ at $10^h 20^m$
 20.15 Rapidly fainting rays in lat. 21.00 then faint glow in N.
 observed Hessel Smith with being monocular at position
 $\delta + 42^\circ 3'$ at 20.40 (correction 1920) essential to
 rays seen. Hazy.

For H

very hazy - image large and barely
 visible! waste of time to remain
 open.

Closed dome at 23.30.

Dome opened and closed with
 some difficulty - seemed sticking.
 Still hazy at 1.00.

23

2- 27VV57 15 0 7.31 Fo 1-2-1

base outside

12
9

157

Date Tuesday, April 25-26, 1939, H-L Julian Day.

[illegible]

258

Have had

Date Fri Apr 28-29, 1939 Hal-T Julian Day 1939.175

[illegible]

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
8 54.3	W 1 ^h 54	11 50	0	6.74	F0	1, 2, 1
9 02.8	W 55 ^m	23 40	0	6.45	A2	1, 2, 1
N 00.1	W 1 ^h 35	30 38	0	7.52	A2	1, 2, 1
1 02.8	W 0 55		0.1	7.22	A2	1, 2, 1 Found plate holder closed at end exp
2 07.2	W 1 45	16 17	1-0	7.55	Gr0	1-2-1
3 20.3	W 0 06	57 04	1-0	6.61	A2	1-2-1
4 09.7	E 0 13	59 57	1-0	6.9	B4c	1-2-1 Note temp change
						MC SE SW M.T ST
						Apr. 29 10 -1 28.0 -54.5 +30.2 -02.0 -0.8

161

Date Saturday Apr. 29-30, 1939, M-T Julian Day 1

[illegible]

. μ . η . ϵ
 . δ
 . γ
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 . ω

162
 Position at
 21 h. Apr 29.
 E.S.T.

Ending Time
 E.S.T.

Hour Angle
 End
 Declination
 Seeing
 Ptg. Mag.

Pointer A 29.92

REMARKS

Clouds at sunset, clear later. Cassegrain motor would
 not function. Replaced burned out fuse. Suggest
 this may have been trouble for several nights.
 light clouds over most of sky at 20.40. - on and off to
 clouds delayed setting. Observed inogg occasionally during
 exposures.

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 04 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 B2 1-2-1

Seeing variable.

Julian Day.

[illegible]

A_0	0	G_0	.36
A_5	.14	G_5	.78
F_0	.28	K_0	1.00
F_5	.42	K_5	1.18
		M	1.4

[illegible]

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

[illegible]

Date Tuesday, May 2-3, 1939, 11-L

Julian Day

[illegible]

Date Wed May 3-4, 1939 Hd-6 Julian Day

Hour Angle
End

		MC	SC	SW	M.T. S.T.	
May 4	09	-1 ^m 16 ^s .9	-56 ^s .7	-09 ^s .0	-03.0	+0.5 ^m
May 5	10	-1 16.4	-57.1	-04.4	-03.6	+0.5

Date Friday May 5-6, 1939, M-T Julian Day.

[illegible]

172

Cloudy at sunset. Cleared later

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Pointer at H. 18	REMARKS
22 14 3 alt 85	2 03 W	47 10	1	7.36 Az	1-2 12 8	hazy clouds filling in from W at 20.40. - image mostly gone after this time.
						remained thick - mist coming up
						closed down at 23.00 hr.
						Hazy, clouds mostly thick with

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

Hour	Angle	End
3	32	W +
4	W -	
5	W +	
6	W +	
7		
8		
9		
10		
11		
12		
13		
14		
15		
16		
17		
18		
19		
20		
21		
22		
23		
24		

77c

N showed M 44, Mizar, with 4 inch. Brilliant auroras much of evening. Uncomfortably warm in dome early evening.

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
93 32	2 32 W	+41 35	2-3	7.26	FS 1-2-1
1 -	1 57 W	+60 26	2-1	7.06	AO 1-2-1
2 3	1 30 W	+76 38	3-2-21	7.58	Az 1-2-1
4 0	1 04 W	+43 36	2	7.20	Az 1-2-1
				14-14	

Julian Day.

[illegible]

776
Tree burning mirror. w. g. must asilver.

		MC	SC	SW	MT	ST
May 8	10	-1.25 ^s	-58.8 ^s	+05.0 ^s	-10.9 ^s	+0.4 ^m

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

[illegible]

Changed focus of spectrograph from
26.28 to 26.25

light rain at 22 40

		MC	SC	SW	MT	S.T.
May 9	12	-1 ^m 15.4	-58.8	+07.2	-12.9	01.0 ^m Adv.

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

Hour	Angle	End	D
2	20	W	+
3	09	W	+
1	10	W	+
3	37	W	+
3		W	+
2		W	+

		MC	SC	SW	MT	ST
May 10	13	-1 ^m 15 ^s .6	-59 ^s .2	+09 ^s .9	-14 ^s .6	-01 ^m .0

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

Hour Angle
End

182.

[illegible]

Date Thursday May 11-12, 1939 H-T Julian Day ??

[illegible]

Mum recovered Thursday.

On reversing telescope in evening, found one wet drop, apparently from
centre of lag towards obs axis. Wiped it off as well as possible with blot.

184

[illegible]

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

Hour	Angle	D
End		
34 W	56	
24 V	40	
13 W	27	
04 W	11	

[illegible]

187

Date Sat May 13-14, 1939 Hal-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
4464	HD 111604	12 45.4	38 04	I-12	Antia II	010	+7.0	10 13	10 33	4
4465	" 115271	13 11.0	41 23	"	"	"	6.6 13.0	10 37	10 53	1
4466	" 127539	14 28.9	18 05	"	"	"	6.6 13.0	10 56	0 06	2
4467	141472	15 44.2	55 47	"	"	"	6.5 13.0	0 13	0 37	3
4468	142581	15 50.0	56 07	"	"	"	6.6 13.0	0 40	1 10	4
4469	154181	16 58.8	74 26	"	"	"	6.5 13.0	0 18	2 10	1
4470	157681	17 19.6	53 31	"	"	"	6.5 13.0	2 28	2 52	2
4471	MWC 310 177648	19 00.5	23 11	"	"	"	6.5 13.0	2 55	3 41	3
4472	179648	19 08.3	21 23	"	"	"	6.5 13.0	3 44	4 04	4
Monday May 15-16, 1939, M								cloudy all evening		

about 250 Visitors

Hd showed 8 Leo, m3 with 74"

T " 8 Virg? " 4"

188

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		Pointer at 31.3	REMARKS
10 53	W 52 ^m	37 50	3	5.92	A2 1,2,1	BSC	
10 53	W 46 ^m	41 10	3	5.82	A5 1,2,1	"	
	W 49 ^m	17 53	4	7.58	F5 1,2,1	Supp	
10 53	✓ 1 58	55 39	4	6.97	K2 1-2-1	BSC	
10 53	✓ 0 27	55 58	4-3	6.92	K0 1-2-1	BSC	
2 53	W 0 27	74 19	4-3	7.54	F5 1-2-1	Supp	
2 53	W 0 35	53 26	4	7.13	K5 1-2-1	BSC	
2 53	✓ 1 46	23 11	2	6.9	B3e 1-2-1	MWC	Seeing good
2 53	✓ 0 01	21 24	1-4	5.90	A0 1-2-1	P.B.S.C.	Seeing good
							MC SC SW MT S.T May 15 12 -1 13.6 -1 01.7 +23.1 -16.8 -0.7^m May 16 9 -1 12.4 -1 02.4 +24.9 -17.6 -0.8^m

evening

189

Date Tuesday, May 16-17, 1939, 14-L Julian Day.....

[illegible]

Temp. set 12.8

		MC	SC	SW	MT	ST
May 17	10	-112.9	-102.8	+26.2	-18.0	-0.6

191.

Date. *Wed May 17-18, 1939* *Hol-L* Julian Day.

[illegible]

192

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		Pointer at 31.2 REMARKS
97	.W 1 ^h 17	23 38	1	6.45	Az 12.1	
103	W 1 ^h 46	30 36	1	7.52	Az 12.1	^{Sun} Haze. Bright annular arch (HA) at 10.25
-3	W 43 ^m	01 05	1	5.88	Az 12.1	^{B.S.} Very hazy Sky thickening up later, closed.
						may 18 MC _s -1° 12' 2" SC _{m s} -01° 03' 5" SW _s +27.7 MT _s -17.6 ST _m -006

Date Thursday May 18-19, 1939 H-T Julian Day

Free Test

Thick haze + light haze from sunset on. slowly + intermittent
 partly clearing.

194

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
23 ²⁰ 4	1 12 W	+24 55	-1	7.25	Ma 1-2-1	BSC Light clouds. Bright diffuse aurora low
23 ⁴³ 1	0 19 W	+28 50	1-2	5.72	A2 1-2-1	BSC in north.
1 11 2	1 02 W	+76 37	1-2-3	7.58	A2 1-2-1	KSA 6 Seeing Variable Partly cloudy 055-110.
1 39 3	0 15 W	+77 39	2-3	6.35	F2 1-2-1	Supp " "
2 15 4	1 19 W	+76 54	2-1-0	7.47	F0 1-2-1	Supp " " Partly cloudy 300-330
2 44 1	2 04 W	+61 15	~	7.11	F5 1-2-1	" Monthly cloudy 345-
					10-10	
						May 19 10 MC SC SW MT ST -112.8 -105.1 +30.0 -17.0 -1.2 But

Date Free May 19-20, 1939 Hel-T Julian Day

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

196

Ending Time
R.S.T.

Hour: Angle: End	Declination	Seeing	Ptgr. Mag.	REMARKS
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Pointer at 14.4

9:25

14 32 ^W	27 02	1	7.21 A ₂ 1, 2, 1	Supp. Some haze & clouds
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10:2

W 34 ^m	-04 36(!)	2	6.10 F ₂ 1, 2, 2	B.S.C. →
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11:3

W 20 ^m	16 56	2	5.80 A ₃ 1-2-1	Clouds at 9.43
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12:4

	22 20		7.14 K ₅ 1-3	Clouds 1.45
--	-------	--	-------------------------	-------------

S about 5m or brighter would very much of this
 is right star. Check
 another pair about here, the brighter
 of which may be it.
 High cloudy haze. Still had a 30-cloud.
 Clouds 1.45

Plate Box in Dome

12:45

gave short talk in lecture room and demonstrated telescope.

Date Tuesday, May 23-24, 1939 H-L

Julian Day

[illegible]

Clear most of afternoon; heavy clouds just at dark, over
much of sky, delayed opening up. Very windy. 199

[illegible]

Date Wed. May 24-25, 1939 Hol-L Julian Day.

Hour	Angle	End
4	11 ^m	
4	8 ^m	
2	5 ^m	
4	1 ^m	
1	04	
	9 E	
	5	
	3	
	4	

Pointer at 14.1

Ending Time L.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
850 1	W 11 ^m	21 12	2	5.78	A ₂ 1,2,1	BSC Some haze.
935 2	W 8 ^m	34 25	2	6.98	K ₀ 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 3	E 5 ^m	01 20	2	6.02	A ₃ 1,2,1	BSC
1106 4	W 26 ^m	17 53	3	7.58	F ₅ 1,2,1	Supp. Aurora (rayed arch) at 10.20
	1 ⁰⁴ W	16 15	3	7.55	G ₀ 1,2,1	Supp. Note: may have 121607+127539 both on #4504!
	0 ¹⁹ E	73 12	4	6.38	A ₅ 1-2-1	Supp. lost time in finding star on slit
	0 ⁴⁵ W	74 21	4-3	7.59	F ₅ 1-2-1	Supp. sky filling in from 1.45 on
	36 W	25 01	3-2	6.9	B _{5e} 1-2-1	clearing again
	0 ⁴⁶ W	18 00	2	6.79	K ₂ 1-2-1	BSC.
						MC 3C SW MT ST May 25 12 -108^m.6 -109^m.3 +38^m.3 +19^m.2 -0^m.3 Reset

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

Hour	Angle	D
End		
4/2	14	30
Σ	11 ^m	14
4/6	39	
026W	6	
100W	5	
137W	5	
00	1	
33W		

202

Ending Time L.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		Pointer at 16.0	REMARKS
10 25.2	N 2 ^m 14	30 37	1	7.52	A2	1, 2, 1	
10 43.3	E 11 ^m	14 38	2	5.77	A0	1, 2, 1	BS.
11 32.4	N 6 ^m	39 47	3	7.03	A5	1, 2, 1	BS
00 1	226 W	69 26	3	6.86	K0	1, 2, 1	BS
00 2	1 00 W	55 37	3	6.97	K2	1, 2, 1	BS. Seeing worse, Haze = 0.35
1 14.3	1 37 W	55 58	3	6.92	K0	1, 2, 1	BS
2 32.4	48 W	06 18	3	6.98	K0	1-2-1	BS
1 33 W	12 29	2-3	7.29	B8	1-2-1		
							MC May 26 10 -1.08.1 SE -1.09.8 SW +39.1 MT +19.0 ST +0.5^m

Date Fri May 26-27/29 T-M

Julian Day

[illegible]

Pointer at 17:3

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. Monday, May 29-30, 1939 M-L Julian Day.

Hour Angle End	Dec
0 43 E	2
1 01 W	-
2 42 W	-9
3 46 W	33

Clouds for some time after sunset. Cleared
Pointer at 14.6 later

Ending Time
E.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
				MC SC SW M.T. ST.
				May 29 12 -1.06.6 -1.09.9 -14.9 +14.2 +0.4
				Something <u>certainly</u> is wrong with shutter circuit. Could get no response at all. Reset throw-out repeatedly, opening it up and pushing reset in, checked fuse in basement, tried done at various positions, finally opened by <u>hand</u>. By that time light clouds over whole sky.
22 20	0 43 E	12 47	0	6.20 A0 1-2-1
0 3	1 01 W	44 02	1	7.40 F0 1-2-1
0 5	0 42 W	-9 15	0	VAR. 7.47 B2 1-2-1
2 5	0 46 W	33 01	1	6.89 B5 1-2-1
				Lost a little time locating star on slit. Inspected relay, with a little doctung it punctured ok. no trouble slowing.
				MC SC SW MT ST
				May 30 10 -1.06.4 -1.10.5 -05.0 +14.0 +0.7

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

[illegible]

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 R.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS	Notes 3 ^m
22.2	3 17 W	+44 53	1	7.14 F0	1-2-1 Sky rather thick. Clouds.	KSA 31
23.0	1 53 W	+24 55	1	7.25 Ma	1-2-1 Haze. Image unstable	BSC
23.5	1 43 W	+55 39	1-2	7.17 K5	1-2-1	BSC
00.0	0 20 W	+61 13	1-2	7.11 F5	1-2-1 Seeing Variable. Light clouds.	KSA 16
00.4	0 55 W	43 36	2-3	7.20 A2	1-2-1 Light clouds	S-1
01.0	0 45 W	47 30	2-3	6.95 A2	1-2-1	S-1
01.2	0 28 W	28 41(?)	2-3	7.43 K0	1-2-1  Brighter star N. Sec. Not more visible.	
					MC SC SW MT ST	
					Jun. 20 -1.06.3 -1.11.9 +04.0 +06.3 +0.5 ^m	

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

Hour	Angle	D
End		
23	1	7
28	E	6

Date Sat June 3-4/39 Hd-T

Julian Day.

[illegible]

Date Mon. June 7-5 B-1

Julian Day

[illegible]

216

Ending Time L.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS	
0 38W	35 17	2	6.98	K ₀	1½-1½-1½	B.S.C. (Y)	Had trouble with starting arc for
1 17W	9 10		5.94	A ₂	1½, 1½, 1½	B.S.C. (H)	last companion + lost time.
0 57W	39 29		5.92	F ₂	1½, 1½, 1½	B.S.C. (H)	
0 44W	18 38		5.88	A ₃	1½, 1½, 1½	B.S.C. Ord.	
0 24W	12 30	2-1	6.04	A ₂	1½, 1½-1½	B.S.C. Y	Light clouds.
0 01W	36 17	2-1	6.98	K ₀	1½-1½-1½	B.S.C. Y	
0 07E	18 01	2-1	6.79	K ₂	1½-1½-1½	B.S.C. Hd	
0 54W	17 53	2-1	7.50	F ₀	1½-1½-1½	Supp. last Y	clouds, more clouds sky filled in
							MC SC SW MT ST Jun. 5 10 -1 06.8 -1 13.2 +01.2 +04.3 +0^m.5

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

Hour	Angle	End
11	1	1
12	5	2
13	8	3
14	12	4
15	23	5
16	36	6
17	40	7
18	44	8
19	48	9
20	52	10
21	56	11
22	60	12
23	64	1
24	68	2
25	72	3
26	76	4
27	80	5
28	84	6
29	88	7
30	92	8
31	96	9
32	100	10
33	104	11
34	108	12
35	112	1
36	116	2
37	120	3
38	124	4
39	128	5
40	132	6
41	136	7
42	140	8
43	144	9
44	148	10
45	152	11
46	156	12
47	160	1
48	164	2
49	168	3
50	172	4
51	176	5
52	180	6
53	184	7
54	188	8
55	192	9
56	196	10
57	200	11
58	204	12
59	208	1
60	212	2
61	216	3
62	220	4
63	224	5
64	228	6
65	232	7
66	236	8
67	240	9
68	244	10
69	248	11
70	252	12
71	256	1
72	260	2
73	264	3
74	268	4
75	272	5
76	276	6
77	280	7
78	284	8
79	288	9
80	292	10
81	296	11
82	300	12
83	304	1
84	308	2
85	312	3
86	316	4
87	320	5
88	324	6
89	328	7
90	332	8
91	336	9
92	340	10
93	344	11
94	348	12
95	352	1
96	356	2
97	360	3
98	364	4
99	368	5
100	372	6
101	376	7
102	380	8
103	384	9
104	388	10
105	392	11
106	396	12
107	400	1
108	404	2
109	408	3
110	412	4
111	416	5
112	420	6
113	424	7
114	428	8
115	432	9
116	436	10
117	440	11
118	444	12
119	448	1
120	452	2
121	456	3
122	460	4
123	464	5
124	468	6
125	472	7
126	476	8
127	480	9
128	484	10
129	488	11
130	492	12
131	496	1
132	500	2
133	504	3
134	508	4
135	512	5
136	516	6
137	520	7
138	524	8
139	528	9
140	532	10
141	536	11
142	540	12
143	544	1
144	548	2
145	552	3
146	556	4
147	560	5
148	564	6
149	568	7
150	572	8
151	576	9
152	580	10
153	584	11
154	588	12
155	592	1
156	596	2
157	600	3
158	604	4
159	608	5
160	612	6
161	616	7
162	620	8
163	624	9
164	628	10
165	632	11
166	636	12
167	640	1
168	644	2
169	648	3
170	652	4
171	656	5
172	660	6
173	664	7
174	668	8
175	672	9
176	676	10
177	680	11
178	684	12
179	688	1
180	692	2
181	696	3
182	700	4
183	704	5
184	708	6
185	712	7
186	716	8
187	720	9
188	724	10
189	728	11
190	732	12
191	736	1
192	740	2
193	744	3
194	748	4
195	752	5
196	756	6
197	760	7
198	764	8
199	768	9
200	772	10
201	776	11
202	780	12
203	784	1
204	788	2
205	792	3
206	796	4
207	800	5
208	804	6
209	808	7
210	812	8
211	816	9
212	820	10
213	824	11
214	828	12
215	832	1
216	836	2
217	840	3
218	844	4
219	848	5
220	852	6
221	856	7
222	860	8
223	864	9
224	868	10
225	872	11
226	876	12
227	880	1
228	884	2
229	888	3
230	892	4
231	896	5
232	900	6
233	904	7
234	908	8
235	912	9
236	916	10
237	920	11
238	924	12
239	928	1
240	932	2
241	936	3
242	940	4
243	944	5
244	948	6
245	952	7
246	956	8
247	960	9
248	964	10
249	968	11
250	972	12
251	976	1
252	980	2
253	984	3
254	988	4
255	992	5
256	996	6
257	1000	7
258	1004	8
259	1008	9
260	1012	10
261	1016	11
262	1020	12
263	1024	1
264	1028	2
265	1032	3
266	1036	4
267	1040	5
268	1044	6
269	1048	7
270	1052	8
271	1056	9
272	1060	10
273	1064	11
274	1068	12
275	1072	1
276	1076	2
277	1080	3
278	1084	4
279	1088	5
280	1092	6
281	1096	7
282	1100	8
283	1104	9
284	1108	10
285	1112	11
286	1116	12
287	1120	1
288	1124	2
289	1128	3
290	1132	4
291	1136	5
292	1140	6
293	1144	7
294	1148	8
295	1152	9
296	1156	10
297	1160	11
298	1164	12
299	1168	1
300	1172	2
301	1176	3
302	1180	4
303	1184	5
304	1188	6
305	1192	7
306	1196	8
307	1200	9
308	1204	10
309	1208	11
310	1212	12
311	1216	1
312	1220	2
313	1224	3
314	1228	4
315	1232	5
316	1236	6
317	1240	7
318	1244	8
319	1248	9
320	1252	10
321	1256	11
322	1260	12
323	1264	1
324	1268	2
325	1272	3
326	1276	4
327	1280	5
328	1284	6
329	1288	7
330	1292	8
331	1296	9
332	1300	10
333	1304	11
334	1308	12
335	1312	1
336	1316	2
337	1320	3
338	1324	4
339	1328	5
340	1332	6
341	1336	7
342	1340	8
343	1344	9
344	1348	10
345	1352	11
346	1356	12
347	1360	1
348	1364	2
349	1368	3
350	1372	4
351	1376	5
352	1380	6
353	1384	7
354	1388	8
355	1392	9
356	1396	10
357	1400	11
358	1404	12
359	1408	1
360	1412	2
361	1416	3
362	1420	4
363	1424	5
364	1428	6
365	1432	7
366	1436	8
367	1440	9
368	1444	10
369	1448	11
370	1452	12
371	1456	1
372	1460	2
373	1464	3
374	1468	4
375	1472	5
376	1476	6
377	1480	7
378	1484	8
379	1488	9
380	1492	10
381	1496	11
382	1500	12
383	1504	1
384	1508	2
385	1512	3
386	1516	4
387	1520	5
388	1524	6
389	1528	7
390	1532	8
391	1536	9
392	1540	10
393	1544	11
394	1548	12
395	1552	1
396	1556	2
397	1560	3
398	1564	4
399	1568	5
400	1572	6
401	1576	7
402	1580	8
403	1584	9
404	1588	10
405	1592	11
406	1596	12
407	1600	1
408	1604	2
409	1608	3
410	1612	4
411	1616	5
412	1620	6
413	1624	7
414	1628	8
415	1632	9
416	1636	10
417	1640	11
418	1644	12
419	1648	1
420	1652	2
421	1656	3
422	1660	4
423	1664	5
424	1668	6
425	1672	7
426	1676	8
427	1680	9
428	1684	10
429	1688	11
430	1692	12
431	1696	1
432	1700	2
433	1704	3
434	1708	4
435	1712	5
436	1716	6
437	1720	7
438	1724	8
439	1728	9
440	1732	10
441	1736	11
442	1740	12
443	1744	1
444	1748	2
445	1752	3
446	1756	4
447	1760	5
448	1764	6
449	1768	7
450	1772	8
451	1776	9
452	1780	10
453	1784	11
454	1788	12
455	1792	1
456	1796	2
457	1800	3
458	1804	4
459	1808	5
460	1812	6
461	1816	7
462	1820	8
463	1824	9
464	1828	10
465	1832	11
466	1836	12
467	1840	1
468	1844	2
469	1848	3
470	1852	4
471	1856	5
472	1860	6
473	1864	7
474	1868	8
475	1872	9
476	1876	10
477	1880	1

Date Tuesday June 6-7, 1979 H-Bs-L Julian Day _____

[illegible]

Import 16.8

Ending Time I.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
21 56 4	2 14W	+72 14	0	7.44	K0 1-2-1	Supp
21 57 1		+65 06	0	5.70	A0 1-2-1	
21 57 2	1 43W	+57 54	1	7.47	F2 1-2-1	Supp
21 57 3	1 06W	+76 55	1-0	7.47	F0 1-2-1	Supp
21 57 4	1 23W	+12 21	0	7.55	F0 1-2-1	Supp
21 57 5	0 42W	+47 43	1	7.59	Ma 1-2-1	Supp
MC SC SW MT ST Jun. 7 10 -1.07.9 -1.14.1 +04.8 +03.0 +0.6^m						
3	Outside thin base			no filters 4/4	Tilt 23.14 Focus	Set 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.

Trouble with thermostat; used manual control.

(at first)
222

Ending Time
L.S.T.

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS						
							MC	SC	SW	MT	ST	
						Jun. 8	10	-1.085	-1.146	+0.63	+0.18	+0.4 ^m
	2 15 W	+24° 57'	1-2	7.25	Ma	3-3-3	Supp.					
	1 43 W	+28° 50'	2	5.72	A2	3-3-3	+					
	0 23 W	+8° 57'	2-1	6.99	K2	3-3-3						
2 00	0 52 W	-4 49	1	6.98	Ko	3-3-3	Stopped exp. Spectrograph near pier					
2 00	0 07 W	28 16	1	6.24	B8	3-3-3	Supp.					
2 00	0 31 W	48 03	2-1	5.98	A0	3-3-3						

Date Fri June 9-10, 1939 Hd-B-T Julian Day.

[illegible]

Ending Time K.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
21.1	3 ^h 03 W	+17:00	1	6.62 A2p 3-3, 3	MC SC SW MT ST 9:13 - 1 09.0 - 1 14 +06² 0.0² +26²
21.4	0 44 W	+42.45	1	5.6 B8 3-3-3	Stage out cameras
21.4	1 14 W	+04:22	2-1	6.0 A0 3-3-3	Took 17 following brighter - check light clouds ^{toward end}
	15 05		5.99 A0 3-6	Mostly cloudy 1.05-	Closed 2.30
	"				
	Setting	From	Cff	Zilt 19.47:	Temp 20.3 (below)
	1	26.15	13, 10		
	7	26.35	13, 10		
	9	26.25	13, 10		
					MS. S.C. SW. M.T. S.T. Jun. 10 20 -1 09.9 -1 15.6 +06.9 +06.0 +0.2
	About 100 visitors started to show TT Boov. ^{Reset} well 74" but clouded up. Cleared briefly at 21:30 but clouded over again soon. Thunder storm forming up at 22.00 Put on blower.				
	Locally				

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 .
					$\overline{\text{MT} \quad \text{ST}}$ $\text{Jun. 12} \quad 10 \quad -1 \quad 10.6 \quad -1 \quad 15.9 \quad +05.1 \quad -06.1 \quad +0.4$ Reset

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

[illegible]

cloudy for first part of evening. Cleared later.

Looked at out of focus image of Arcturus 228
Seeing too poor to determine anything about the monitor.
No difficulty finding range on slit. Finder seems
in adjustment

[illegible]

Pointer at 10.43.	REMARKS	in adjustment no marked motion of image on focusing.
faint auroral 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 ^m
Jun. 13	10	-110.9	-116.6	+09.4	-06.8	-0.2
						↑
						Reset.

Note - do not lose Sideral part
of Strömungen of class.

Cloudy
at 11

et n

[illegible]

230

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

M100 - clouds almost from start. 20 sec + wave. [and then we set]

[illegible]

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

Hour	Angle	End
0	2 W	
1	07 W	

Ending Time
E.S.T.

238

652

324

233

Date Thursday June 15-16 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 Est	Dist
4579	NGC 6205	16 38.1	+36 39	Newton	Astra II			9 26	9 32	1	15 E
4580	" 6058	16 01.0	+40 58	"	"			9 43	10 03	1	23 E
4581	" 6058	"	"	"	E-I-G			10 19	11 49	2	13 W
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	" 6402	17 32.4	+03 11	"	"			0 20	0 50	2	
4585	" 6720	18 49.9	+32 54	"	"			1 50	2 00	1	
4586	" 6853	19 55.3	+2 27	"	"			2 06	2 21	2	
4581 ⁷	"	"	"	"	E I-G			2 34	3 04		

Friday June 16-17 H-T
Newtonian

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

239

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS								
321	154 E	15	Vile										
10 03	043 E		Poor										
11 44	003 W		Fair	Yellow Filter	(15G)								
11 37			"	"	"					Faint guide star			
1-11			"										
0-5			"							Thru chkd grinding eye piece on Newtonian ph. lfr.			
2-0			"							Turbulent in ref. air. q. it.			
2-2													
2-2					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		
												</	

Date Saturday June 17-18 H-B-T Julian Day

[illegible]

236

Ending Time
E.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
1 2 2	0 34 W	2-1	7.57	G0	1-2-1
2 4 3	0 33 W -02 16	2	68-74	B8	1-2-1 Binary
3 4 4	0 27 W +08 52	2-3	68-75	A0	1-2-1 Light haze measured. Binary
MC SE SW MT ST Jun. 19 10 -113.7 -115.4 +15.1 -13.0 +0.5 Reset					
Jun. 20 09 -113.8 -116.1 +18.7 -13.3 +0.6					

237

Date Tuesday, June 20-21, 1939 H-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.	Hour Angle End	Dist
4591	HD 128000	14 29.4	+55 50	I-12	Arta II	set 010	18.6 25.0	20 56	21 36		4 W .5
4592	139493	15 33.4	+54 57	"	"	"	18.6 25.1	21 39	22 03		1.05 V .5
4593	153720	16 56.0	+75 34	"	"	"	18.6 25.1	22 07	22 07	3	1.2 -
4594	153845	16 56.8	+77 00	"	"	"	18.5 25.1	23 12	00 32	4	1.4 V .
4595	167,944	18 12.4	+12° 02	"	"	"	18.6 25.0	00 47	02 05	1	2.1 W .
4596	174,881	18 47.7	+28° 39	"	"	"	18.5 25.0	02 16	03 04	2	2.1 V +
4597	181,119	19 14.1	+50° 50	"	"	"	18.5 25.0	03 10	03 23	3	2.0 W .
Wed June 21 14d											
I-12 focus 26.23, tilt 19.48. Changed to I-25											
4597F	Focus			I-25	Arta II	above 010	13.2			3	Arta II

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Ending Time Z.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
21	2 41 W	+55 39	0-1	7.17	K5 1-2-1	BSC
22	0 05 W	+54 49	1	5.74	A0 1-2-1	BSC
21 3	0 11 E	+75 28	2	7.12	F0 1-2-1	KSA N.B. Slide possibly not drawn. Faint answer
21 2	1 14 W	+76 56	2	7.47	F0 1-2-1	KSA Answer brighter.
21 1	1 21 W	+12° 00	2	7.55	F5 1-2-1	"
21	1 26 W	+28° 43	2	7.43	K0 1-2-1	" Galvo. contact flashed as plate being unloaded
21	2 06 W	+30° 57	2	6.48	A0 1-2-1	" Galvo. (Thermostat) pointer at 18.60
MC SC SW H.T. S.T. Jun. 21 13 -1.141 -1.173 +27.5 -15.0 +0.6						
3	Outside this base		no filters 4/4		tilt 23.15	set 1 7 focus 23.2 best focus 6 23.4 23.3 9+ 23.6

Date Wed June 21-22, 1939 H₂O-Julian Day.

Thurs June 22-23 H-T
Rain, clouds

[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>alone</i> HD 116842	13 21.2	55 30	<i>I-25</i> Process		010	14.4 21.0	8 45	9 19 4	11 44 5
	"	"	"	"	"	"	14.3	10 24	11 08	11 38 5
4601	HD 142926	15 52.2	42 51	"	<i>Astra II</i>	010	14.2	9 23	10 19 1	11 37 4
- 4602	<i>η Lyrae</i> HD 180163	19 10.4	38 58	"	E 33	010	14.2	11 16	11 48 1	11 18 3
	"	"	"	"	"	"	14.1	1 44	2 20	11 07 2
- 4603	<i>mwc 278</i> HD 164284	17 55.3	4 22	"	<i>Astra II</i>	"	14.3	11 53	0 05 2	11 05 2
- 4604	<i>MWC 317</i> HD 183143	19 23.0	18 05	"	"	"	14.2 21.1	0 09	1 47 3	11 02 W 13
- 4605	<i>K Cas</i> HD 2905	00 29.3	62 23	"	E 33	"		2 36	3 02 4	11 04 E 6
- 4606	<i>r Cas</i> HD 5394	00 30.7	60 11	"	Process	"	14.1 21.0	3 05	3 11 2	
	"	"	"	"	"	"		3 14	3 20 2	
	"	"	"	"	"	"		3 21	3 21 2	
Saturday, June 24-25, H-Bo										
4606 F1	From test with tilt changed for					3900-4500	region. Changed to 12 1/2"			
4606 F2	"						Exp. 11.5" 1.7.9 in.			

Pointer at 15.6

Ending Time P.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
9 19 4	W 1 ^h 44	55 18	5-4	4.16	AS 8, 8 ^{no filters} set 1
10 15	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}
10 19 1	E 2 ^h 18	39 00	2	4.16	AS 4 ^{B3 no filters} set 1
10 19 1	W 0 57	34 01	2	4.16	AS 4 4 ^{B3 no filters} " 7 Seeing variable Scattered clouds
10 2	0 09 E		2	4.8	Brac 4 4 4 ^{1 filter}
10 2	0 02 W	18 10	2	6.9	Bysed 4 4 4 ^{1 filter} Scattered clouds.
10 2	0 40 E	62 35	2	4.0	Bc 4 4 ^{no filters}
			2	22.5	Bp 16 Set 1
			2	"	16 " 5
			2	"	8.5 " 9 Blotted out by clouds.
10 12 5 2 12 5 Setting from 1 26.09 6 26.25 9 26.40 1 26.10 6 26.26 9 26.40 Alt 18.65 Alt 20.31 Alt moved as per computer, in w my direction Alt 20.31 O.K. From 26.10 ~ 26.12 O.K. NTB ✓ [not set right]					
MC SC SW MT ST					
Jun. 24 20 -1 15.8 -1 21.1 +25.0 -23.8 +01.0					

Date. Saturday - June 24-25, 1939, M-T Julian Day.

Hour Angle
End

244
 About 80 visitors. - showed π Boo.
 M3 with 74 inch N showed moon with
 2" and 4".

Ending Time
 E.S.T.

Hour Angle
 End

Declination

Seeing

Ptg. Mag.

Printer at 16:08 REMARKS

HAD TO OPEN BY HAND

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

0.08W 27 06 0-1 7.22 Az 1-2-1

0.22E 57 52 1 6.41 B8 1-2-1

0.07W 33 06 1 7.52 B0 1-2-1

M really cloudy 2, 05 - 4, 30
 Trouble with shutters. Got thermalised by
 strengthening spring in throat and switch

Date June 25-6 1939 Sunday B Julian Day.....

[illegible]

246

Ending Time
E.S.T.Hour Angle
End.

Declination

Seeing

Ptg. Mag.

Pointer at 17.0 REMARKS

9.21	0.29W	28 50	1-2	5.72	A ₂	1-2-1	(H) Had to open by hand.
9.24	1.03W	14 40	1	5.77	A ₀	1-2-1	(Hd.)
9.25	0.44W	50 00	2	6.18	F ₀	1-2-1	(Y)
9.25	0 52W	25 34	2 Var.	6.95	K ₀	1-2-1	(H) Left plate in spotter for long time.

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

		MC	SC	BW	MT _s	ST
Jun. 26	10	-1.164	-1.22.5	+24.8	-25.7	+0.1 Rest

Date Monday, June 26-27, 1939, M-Bs Julian Day 2454810.5

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	Astr II	010	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 ^h 21.6	+27° 02	✓	✓	020 M	17.5 24.6	00 54	03 24	1
Tuesday, June 27-28, 1939. H Y removed camera to measure for Schmidt. Replaced 12"										
4616 F	Frame Test			I-12	Astr II	010				1

Settling	
1	26.05
6	26.25
9	26.15

OK

cutting the brass. Exps $14^2 + 12^2$

Date Tuesday, 1939 June 27-28 H-Bs Julian Day

[illegible]

Delayed opening due to clouds. Pointer set at 16.72

Ending Time
E.S.T.

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

[illegible]

about 50 visitors, showed 3 Boobys with 74
Bs showed moon with 4" 259

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
117	W1 ^h 12	18 05	1	7.33	GO 1-2-1 Sapp
118	W0 09	13 58	1-2	7.7	B3nc 1-2-1 right star?  apparently wrong star
119	W0 58	36 06	1-2	7.1	B3nc 1-2-1 Scattered clouds
120	W1 42	37 15	1-2	5.7	B3nc 1-2-1 higher clouds.
					July.

Date *Sun July 2-3, 1939* - *L* Julian Day.

[illegible]

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 F5 1-2-1	..
0 15 W	12 59	1-2	7.7 Bshc $\frac{3}{4} \frac{1}{2} \frac{3}{4}$	probably right star - see field drawn since
0 26 E	-02 38	2-3	6.3 Bge 1-2-1	N
1 31 W	36 45	2-3	7.7 Bge 1-2-1	large
changed to I-25 outside this base no pillars + 1/2 Tilt 23.15 Set 1 7 times				
July 3 MC SC SW MT ST				
12 -1^m 20.6 -1^m 28.1 +32.4 -37.6 +0.4				
23.1 23.3 23.5 23.3 is good				

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

Hour	Angle	End	Do
2	53	W	5
4	56	W	
6	46	W	0
8	55	E	35
10	56	W	2

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Fading Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
2 54	2 53 W	55 17	0-1	4.16	A ₅	No filter 10, 10 Setting 1 image variable
2 55	4 55 W	"	1-2-3	"	"	6, 8, 6 Setting 6 haze
2 59	0 48 W	04 18	0-1	5.73	A ₀	1 filter 4, 4, 4 B.S.C.
0 40	0 05 E	39 02	2-3	4.29	B ₃	No filter 6, 8, 6 Setting 1 haze light clouds at 00 15
2 30	1 56 W	23 13	2-3	6.9	B _{3e}	1 filter 4, 4, 4 M.W.C. haze, light clouds. thick at 02 30
						MC SC SW MT ST
						July 4 10 -1 ^m 22.5 -1 ^m 28.8 +30.3 -40.0 +0.5 ^m
						" 5 12 -1 21.5 -1 ^m 30.1 +30.4 -41.5 +0.6

Date Wednesday 1939 July 5-6³⁵ Julian Day.

Hour	Angle	End
1	25	
2	30	
3	35	
4	40	
5	45	
6	50	
7	55	
8	60	
9	65	
10	70	
11	75	
12	80	
13	85	
14	90	
15	95	
16	100	
17	105	
18	110	
19	115	
20	120	
21	125	
22	130	
23	135	
24	140	
25	145	
26	150	
27	155	
28	160	
29	165	
30	170	
31	175	
32	180	
33	185	
34	190	
35	195	
36	200	
37	205	
38	210	
39	215	
40	220	
41	225	
42	230	
43	235	
44	240	
45	245	
46	250	
47	255	
48	260	
49	265	
50	270	
51	275	
52	280	
53	285	
54	290	
55	295	
56	300	
57	305	
58	310	
59	315	
60	320	
61	325	
62	330	
63	335	
64	340	
65	345	
66	350	
67	355	
68	360	
69	365	
70	370	
71	375	
72	380	
73	385	
74	390	
75	395	
76	400	
77	405	
78	410	
79	415	
80	420	
81	425	
82	430	
83	435	
84	440	
85	445	
86	450	
87	455	
88	460	
89	465	
90	470	
91	475	
92	480	
93	485	
94	490	
95	495	
96	500	
97	505	
98	510	
99	515	
100	520	
101	525	
102	530	
103	535	
104	540	
105	545	
106	550	
107	555	
108	560	
109	565	
110	570	
111	575	
112	580	
113	585	
114	590	
115	595	
116	600	
117	605	
118	610	
119	615	
120	620	
121	625	
122	630	
123	635	
124	640	
125	645	
126	650	
127	655	
128	660	
129	665	
130	670	
131	675	
132	680	
133	685	
134	690	
135	695	
136	700	
137	705	
138	710	
139	715	

		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

Date Thurs July 6-7, 1939 Nel Julian Day.

Hour	Angle	End	De
5 ^h 51	5		
6 ^h 04 ^m	3		
✓ 42 ^m			
✓ 32			
5 ^h 259	6		
5 ^h 23			
5 ^h 47			

262

Clouds earlier.

[illegible]

Date Trin Feb 7-8/39 T

Julian Day.

[illegible]

5

[illegible]

Date Sat July 8-9, 1939 42-1 Julian Day

[illegible]

266

Ending Time LST.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
11 15 3	W 4 ^h 41	55 16	1	4.16 AS	no filter 10-10
1 30 1	W 135	59 55	1	6.9 B4	1 filter 4-4-4 Trouble finding RA 1935 wrong?
2 00 4	W 146	39 01	Var. 1-2	4.29 B3	no filter 5-5 Partly cloudy 135-200
3 20 2	W 210	26 16	1	5.9 B4	1 filter 4-4-4 " " 210 - Mostly clear. Toward end

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	<i>n Lyræ</i> HD 180163	19 10.4	38 58	I-25	East. 33	Set .010	<i>above Below</i> 18.6 25.8	00 40	01 06	2
- 4647	" MWC 360 200310	20 57.6	45 46	"	Astra II	"	18.5 25.8	01 10	01 46	3
- 4648	" MWC 381 208682	21 52.9	64 52	"	"	"	18.5 25.8	01 52	03 00	4
- 4649	" <i>K Cass</i> 2905	00 27.3	62 23	"	East. 33	"	18.5 25.8	03 10	03 32	3

Pointer set at 19.75

Ending Time
R.S.T.Hour Angle
End

Declination

Seeing

Ptg. Mag.

REMARKS

Rain in early evening remaining cloudy until 22.50, definitely clear at 23.40 opened up. Had a little trouble finding star.

0 06

047 W

39 02

0

4.29

B3

no filter
5-5

0 43

020 E

45 54

0

5.2

B3hc

1 filter
4-4-4

03 04

001 E

60 00

0

5.8

B3hc

4-4-4

clouds 0215-0224

03 32

204 E

62 33

0-1

4.00

B0

no filter
5-5

July 10 10^h -1^m 19.5 -1^m 33.9 +30.0 +61.5 +3.4

MC SC SW MT ST

Date Monday July 10-11, 1939-L Julian Day.....

[illegible]

270

Pointer set at 15.8

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS	
21 ⁴⁸ 1	050 W	42 43	0-1	5.6	B ₈	1 filter 4-4-4	
22 ⁴⁷ 3	420 W	55 18	1	4.16	A ₅	no filter 10-10	
23 ³⁰ 1	101 W	30 48	0-1	5.82	A ₂	1 filter 4-4-4	B.S.C.
00 ³⁹ 3	120 W	18 06	0-1	5.99	A ₀	4-4-4	B.S.C.
01 ⁴ 1	444 W	42 43	0-1	5.6	B ₈	4-4-4	
02 ⁵ 4	210 W	39 02	1	4.29	B ₃	no filter 10-10	
03 ⁵ 3	058 E	48 18	1	5.2	B ₃ hc	1 filter 4-4-4	
04 ¹ 1	148 W ^{S?}	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 Reut.

Date Tuesday, 1939 July 11-12 Bs Julian Day 2454810.5

[illegible]

272

45

Telescope needs a system of rope ladders! Struggled for 40 min in vain quest of * Cas.; probably made wrong allowance for hour-angle in setting * in finder, far much sweeping did not bring it near the slit. Uncovered other finder & turned dome but to no avail. Moving 1 ladder between 3 finders a slow business. Too light at 03⁵⁰ to search further.

		MC	SC	EW	MT	ST _m
Jul. 12	10	-1 25.4	-1 34.7	+31.4	+04.9	+1.3

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 HD 116,842	13.21.2	+55° 30'	I-25	Process	Set .010	17.6, 24.4	20:58	21:58	
Thurs July 13/39 Hd										
I-25 focus was 23.30 Tilt 23.15										
Changed to I-12										
4657 F	Focus			I-12	E33 Process	010	14.9			2:45

274

Set pointer at 18.88

Ending Time
E.S.T.Hour Angle
End

Declination

Seeing

Ptg. Mag.

REMARKS

3 30 N

+55°20

1

4.29 B3

no filters

10-10

Hazy toward end. Became very cloudy and
began to rain at 23⁴⁵

Jul. 13 10 MC SC SW MT ST
-1.26.1 -1.35.3 +30.9 +02.6 +1.5

Outside this case

no filters

45/5

OK
Focus 26.17 tilt 20.28

Date Tues July 13-14, 1939 HD Julian Day

Hour	Angle End	D
145	2	7
157	2	2
164	2	2
174	2	2
188	1	1
192	2	2
206	1	1
31	11	11
330	0	0

Pointer at 20.2

276

Jul. 4

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



Julian Day

[illegible]

Ending Time
E.S.T.

۷

Date _____

[illegible]

281

Date Sunday, July 16-17, 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	D
4677	HD 141472	15 44.2	55 47	I-12½	Astro II	Set .010	above below 12.5 19.5	20 50	21 36	3	5 W	5
4678	" 166868	18 07.5	29 39	"	"	"	12.5 19.5	21 42	23 26	4	36 W	29
4679	" 177931	19 01.6	45 45	"	"	"	12.5 19.5	23 30	00 30	1	47 W	45
4680	" 198195	20 43.6	42 03	"	"	"	12.4 19.5	00 35	01 45	2	20 W	42
4681	" 209439	21 58.3	32 54	"	"	"	12.4 19.5	01 50	02 50	3	0 W	33
4682	" 214588	22 34.2	44 09	"	"	"	12.4 19.5	02 54	03 54	4	W	44
											</	

Pointer set at 15.25

	$\frac{m}{-1}$ M.C.	SC	SW	MT	ST
July 17 12	$\frac{m}{-1}$ 28.6 ^s 27.1	-1 37.1 ^s	+31.1	+54.4 ^s	+24 ^m

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 19 W
4684	" 6402	17 32.4	-03 11	"	"			22 18	22 48	2 50 W
4685	" 6853	19 55.3	+22 27	"	"			23 52	00 22	1 02
4686	NGC 6853	"	"	"	Eastman IG			00 39	00 54	2 36 W
	Harpies 88	20 10	+15 10	"	"			01 07	01 22	2 42 W
4687	NGC 6879	20 5.9	+16 38	"	Eastman IG			01 33	01 43	1 3 W
	"	"	"					: 01 45	120° of 1.	
4688	NGC 6879	"	"		Astra II			02 03	02 08	2
	"	"	"					: 02 09	60° of 1.	
4689	7078	21 25.2	+11 44		Astra II			02 17	02 25	1
4690	NGC 7078	"	"		Eastman IG			02 33	03 21	2 28 W

284

Clouds delayed start.

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
22 ⁰⁵	0 19 W				
22 ⁴³	0 50 W				Changed estimation, light clouds. Developed 4683
00 ²²	0 02 W				Clouds delayed resuming exposure. clouds.
00 ⁵⁴	0 34 W				Filter 15-G
01 ²²	0 48 W				
01 ⁴³	1 13 W				Filter 15-G
01 ⁵⁸					
02 ⁰⁸					
02 ⁴⁰					
02 ⁵⁵					
03 ¹⁰					
03 ²⁵					
03 ⁴⁰					
03 ⁵⁵					
04 ¹⁰					
04 ²⁵					
04 ⁴⁰					
04 ⁵⁵					
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Date Tuesday July 18 1939 9-11-7 Julian Day

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
4691	NGC 6205	16 38.1	+36 39	Nend.	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 49.9	+32 54	"	East. I-G			11 31	11 51	1
	KSA 64	19 01.4 ⁽¹⁹³⁸⁾	+30 03	"	"			11 55	0 15	1
4696	"	"	"	"	Astra II			0 30	0 35	2
"	"	"	"	"	"			0 35	0 40	2
"	NGC 6720	18 49.9	32 54	"	"			0 43	0 48	2
"	"	"	"	"	"			0 50	exp 60	2
4697	NGC 6886	20 08.3	19 42	"	East. I-G			1 35	2 05	1
4698	" 6891	20 10.4	+12 24	"	"			2 30	2 40	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				
10 02	0 09 W				
10 41	0 33 W				
11 02	0 39 E				
11 51		} yellow filter			light clouds, probably not over region during eclipse. Seeing very variable; hard to guide. Clouds over regions during eclipse.
0 15					
0 22					
0 42					
1 02					
1 42					
2 01		1/2 yellow filter			
2 22		"			
2 41		Yellow filter			
3 24					NB. 20th lat half badly broken by thick haze.

287

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 38	-36 39	Nord	Achate			9 20	9 25	1
4702	" 6366	17 22	-04 59	"	"			9 33	10 13	2
4703	" 6402	17 32	-03 11	"	"			10 18	10 48	1
4704	" 6779	14 12	+30 00	"	"			10 54	11 14	2
4705	" 6572	18 07	+06 50	"	East. I-G			11 41	11 51	1
	" "	" "	" "	"	"			11 53	11 55	
4705	KSA 85	17 10	+15 00	"	"			0 05	0 15	
	" "	" "	" "	"	"			0 16	0 18	2
4706	NGC 6741	18 57	-00 35	"	"			0 32	1 02	2
4707	" "	" "	" "	"	Achate II			1 34	1 39	1
4708	" 7331	22 32	-53 54	"	"			1 56	2 26	2
4709	" 7662	23 21	+41 59	"	East I-H			2 41	3 21	

288

[illegible]

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25

[illegible]

292

Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS	
0:43 W	+12°30	0-1	6.04 A2	1-2-1	BSC. Double -0.
1:40 W	+08°55	1	6.99 K2	1-2-1	" ; similarly oriented
1:31 W	+18°00	0-1	6.79 K2	1-2-1	" Image messy 1 even in best focus
1:05 W	+24°38	0-1	5.70 B8	1-2-1	" " " "
1:16 W	+21°33	1	5.94 A0	1-2-1	"
1:28 W	+10°33	1-	5.90 B8	1-2-1	" Image rather faint, variable due to haze
1:13 W	+22°15	1	5.51 A0	1-2-1	" Sky clearer near zenith than in south. Good image
					MC SC SW MT ST July 22 10 -1^m 30^s.5 -1^m 40^s.7 +33^s.9 +1^m 44^s.8 use S.W.

Date Saturday July 22-23, 1939 H-Bs Julian Day _____[illegible]

about 200+ visitors; mostly cloudy. H showed 5 Here with 74" 294
Bs showed mass with 4."

Rotten night. (Rotten crowd?)

[illegible]

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

Hour	Angle	End	D
1	W	2	
2	E	2	
3	E	3	
4	W	1	
5	W		
6	W	3	
7	W	4	

Date Monday July 24, 25, 1939, L Julian Day 2435000

[illegible]

Pointer set at 21.75

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
2 39	1 ⁰⁷ E	43 08	1	6.40	A5 1-2-1	Binary
2 39	0 ¹⁹ E	-02 15	0-1	6.8- 7.1	B8 1-2-1	Binary, light haze
0 1	0 ²⁰ E	17 35	1-2-3	7.22	K5 1-2-1	supp.
0 29	0 ¹⁹ E	08 52	3-2	6.8- 7.5	A0 1-2-1	Binary
02 10	0 ⁰¹ W	32 40	3-2	6.88	F5 1-2-1	supp.
0 2	1 ⁰¹ W	29 14	3-2	7.52	F5 1-2-1	"
0 4	0 ²⁵ W	44 24	3-2	7.18	F0 1-2-1	"
						MC SC SW MT ST July 25 10 -1^m 31.7 -1^m 42.5 +40.0 -82.7 +10.2

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

[illegible]

300

[illegible]

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

[illegible]

302

Ending Time
E.S.T.

303

309