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31

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5

Date Wed. Apr 20-21 M-L Julian Day 171

[illegible]

Ending Time
R.S.T.

7

How Angle
End

Reet Strömgren og Olsen

p. 8

Ending Time L.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	no filter	REMARKS
1 20	W	+22 05	0	3.79	F0	7-7-7 for B setting 1. not at 7-7
			0			7-7-7 5
			0-1			7-7-7 9 clouds
1 48	W	+27 40	1-2	6.44	Bq	7-7-7 KSA 54
1 07	W	+03 55	1-2	4.99	A2p	7-7-7 for B light clouds 100
		+38 31	1-3	3.28	A3	7-7-7 " " 1 Delayed starting exposure because
			2-3			7-7-7 5 of clouds. Second with improved seeing.
2 04	W		2			7-7-7 9
2 50	W		2	3.28	A2	7-7-7 2

Date Saturday, Mar. 23-24, 1940 M-T Julian Day

[illegible]

Correction to Log of Ol.
 Sid T. $+0.5^m$

P. 10

Ending Time
 L.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Printer at 13.40	REMARKS
Clouds and snow flurries in later afternoon and after sunset.					
	25" - focus	23.6	telt	23.17	Had clouded up again before
set	12" to	26.17		20.25	finished changing cameras.
				12-10.	focus a little too long.
	Reset focus to		26.13		Closed dome.
just as set on star. -					
215W	14 32	1	9.9	G5 $\frac{1}{2}$ -1- $\frac{1}{2}$	No spots on strips in 5522. Volume of
0 09W		2-1	7.25	A0 1-2-1	strips exposure time. Plate left in for
0 07W	44 01	2-1	7.40	F0 1-2-1	bolometer back in place and independent
1 13W	13 28		7.52	F2 1-2-1	Ok. A.F.B.

Date Sunday, Mar. 24-25, 1990 B-L Julian Day 1990081

[illegible]

ST corr. + 0.4^m

Painter at 15.0

[illegible]

Date Monday, Mar 25-26, 1940, M-L Julian Day 2454710.5

[illegible]

Pointer at 17.37

Ending Time
E.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS	
				Cloudy for first part of evening. Cleared later but wind too strong to open right away.	
0 ⁴³ W	17 37	2	6.87 A0	1-2-1	
—	47 21	2	9.00	—	$\frac{1}{2} - \frac{1}{2} - \frac{1}{2}$
				Haze, Light clouds from 2. ⁰⁰ on which at 3.45. Waited until 4. ³⁰ then took out plate. sky still thick closes at 5. ⁰⁰ thick.	
				HC SC BW MT₂ ST_m Mar. 26. 15 +127.4 +07.0 -27.9 Reset +02.2 +0.2 Reset	

Date *Wed Mar 27-28, 1940 Hd. L* Julian Day[illegible]

Ending Time
E.S.T.REMARKS *Pointer 23.3*

20 50

22 00

21 15

20 00

19 00

18 00

17 00

16 00

15 00

14 00

13 00

12 00

11 00

10 00

9 00

8 00

7 00

6 00

Hour Angle
End

Declination

Seeing

Ptg. Mag.

W 59^m

— 1 28

1

8.1 *Qs* 1-1-1

Trouble finding

*Haye*W 1^h 25

47 06

1

6.99 G 5 1-2-1

*Ammonia 21.20. Pairs, bands, changing rapidly*W 5^m

23 37

1

6.45 A 2 1-2-1

Binary

0⁰⁸ E

-0 27

1

6.00 A 3 1-2-1

B.S.C.

*Haye*0⁰² W

-03 31

1

5.87 A 0 1-2-1

B.S.C.

0⁴⁸ W

34 24

1

6.98 K 0 1-2-1

B.S.C.

1²³ W

38 46

1

7.00 K 0 1-2-1

B.S.C.

0⁵² W

39 47

1

7.03 K 5 1-2-1

B.S.C.

1⁰³ W

22 17

1

7.14 K 5 1-2-1

B.S.C.

Haye, clouds.

MC SC SW MT ST
 Mar. 28 10 +1 19.5 +2.6 +3.4 -3.5 -0.2

17

[illegible]

Date Fri. Mar 29-30, 1940 B-M Julian Day

[illegible]

Pointer at 24.3

Ending Time
E.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
1 st W	16 79	1	6.93	A5 1-2-1	Clouds and haze in early evening, cleared
1 ^{2nd} W	30 19	1	5.79	A2 1-2-1	later, but bright aurora making it difficult
17 27	1	7.99	A2	1-3	to determine amount of haze.
					Thick haze by 23 ¹⁵
					Star gone at about 23 ⁵⁰
					Closed dome
					Later in night some stars visible but very heavy
					ground fog made it inadvisable to
					open
					MC SC SW MT ST Mar. 30 10 + 1 22.7 + 11.6 + 28.5 - 05.7 - 0.3

21

Date Saturday March 30-31, 1940 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
5528 ⁸	HD 80390	09 14.4	+57 08	I-12	Actin II	Set 010	B +7.5	22 ¹⁰ 21 ⁴⁵	00 14	4
553 ²⁹	" 132772	14 55.8	+39 40	"	"	"	-2.1	3 20	3 56	1
553 ¹⁰	160435	18 05.5	29 56	"	"	"	-2.3	4 00	5 20	
Sun Mar 31 - ap 1 Hd - L Blowing clear occasionally										
Monday ap. 1/40 B										
Changed to 25" 12" tilt 20.25 Focus 26.09										
Temp -5.8										
5530 _F	Outside the base	Tilt	23.15	Focus	23.4	0				
							23.6	3	very good	
							23.8	9		

Cloudy all day and early evening. Gradually thinning out from
21^h on.

P 22

Ending Time
L.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS	
3 12 W	+56 56	1-2	7.33	M6	1-2-1	KSA 12 Clouds. Star lost much of time. Slide not drawn at first.
1 15 W	37 28	1-2	5.92	F2	1-2-1	Clouds blocked exposure closed, but reopened
0 30 E	29 56	2	7.57	Qo	1-2-1	when sky cleared off nicely about 300

from 20.30. Very high wind - 400

	MC	SC	SW	MT _s	ST _m
Apr. 1 12	+1 24.8	+13.3	+53.4	-06.2	-0.2

Tuesday April 2-3 Mostly cloudy, occasional
stars showing.
Wed. Apr 3-4 PM - steady rain all evening
strong E wind

Date Friday, Apr. 5-6, 1940, M-B Julian Day.....

[illegible]

Date Saturday Apr 6-7, 1940 B-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
5539	H.D. 73596	08 34.1	32 19	I-12	Astra II	.010	-1.5 +6.9	19 23	20 17	1
5540	H.D. 79929	09 11.8	27 51	"	"	"	-1.5 +6.8	20 21	21 45	3
5541	H.D. 84005	09 37.0	30 35	"	"	"	-1.6 +6.7	21 49	23 07	2
Changed to 25" cam. 12" focus was at 26.08, tilt 20.25. Outside star base										
5541F							23.4 23.5 23.6	tilt 23.15		
-5542	Bow 3506	13 29.1	10 4	I-2.5	E-33	.010	+6.0	1 00	3 40	1
-5543	6 Bow	14 30.3	30 11	"	"	"	+6.0	3 47	5 21	
Sunday B Changed back to 12 1/2" Outside star base Temp -1.5 26.0 tilt 2 26.1 a bit short, set camera to 26.15										
5543F							26.1	10/10	tilt 20.25	

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Date Tuesday, April 9-10, 1940 H-L Julian Day _____

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	D
5544	HD 64958	07 51.3	+44 15	I-12	Antar II	set 210	+6.3	19 32	20 36	1	137W
5545	80390	09 14.4	+57 08	"	"	"	+6.3	20 42	21 42	2	119W
5546	81702	09 22.2	+56 41	"	"	"	+6.2	21 45	22 45	3	25W
5547	100054 f	11 25.7	+60 15	"	"	"	+6.3	22 49	23 49	4	17W
5548	" f	"	"	"	"	"	+6.3	23 50	01 50	1	258W
5549	127726	14 27.9	27 08	"	"	"	+6.3	01 38	02 10	2	036W
5550	129153	14 35.9	13 57	"	"	"	+6.3	02 13	02 49	3	107W
5551	130917	14 45.7	29 01	"	"	"	+6.3	02 53	03 21	4	119W
5552	156891	17 15.0	38 55	"	"	"	+6.3	03 27	04 13	1	17E
5553	173415	18 40.1	47 29	"	"	"	+6.4	04 18	05 10	1	235E
Wed Apr 10-11/40 H-L Partly clear 7.30 and 10.30											
Fri Apr 12 H-L											
5553f	Focus check			I-12	Antar II	010		Focus at 26.17		2	None W

cloudy day. Ending of first season.

30

Ending Time L.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp.	REMARKS
1 30	1 37 W	+44 07	2	7.47 K0	1-2-1	
1 1	1 19 W	+56 57	2-3	7.33 M6	1-2-1	
2 1	2 15 W	+56 29	2-3	7.28 F2	1-2-1	
2 1	1 17 W	+60 01	3	* A5	1-2-1	Double star 12" ^m 7.0, brighter preceding
2 1	2 58 W	"	2		1-2-1	fainter following
0 1	0 36 W	+26 35	2	5.96 A2	1-2-1	BSC.
0 1	1 07 W	+13 46	2	6.12 A5	1-2-1	"
0 1	1 09 W	+28 50	2	5.72 A2	1-2-1	"
0 1	0 07 E	+38 50	2	6.98 K0	1-2-1	"
0 1	0 35 E	+47 30	2	6.95 A2	1-2-1	K.S.A 38
30						
					</	

Date. Fr. Apr 12-13, 1940 Hd-B Julian Day

[illegible]

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
20 43	W 17	42 45	1	7.04 A ₂ 1-2-1	KSA. SW
21 24	W 36	40 25	0	6.22 F ₂ 1-2-1	BSC
22 15	W 17 ^m	23 38	0	6.45 A ₂ 1-2-1	Bin SW
23 12	E 30 ^m	21 12	0	5.92 A ₂ 1-2-1	BSC
24 1	1 32 W	30 36	0	7.52 A ₂ 1-2-1	
25 1	1 12 W	15 55	1	7.09 F ₅ 1-2-1	KSA
26 1	(0 40 W)	39 45	2-3	7.03 K ₅ 1-3	BSC
Snow flurry came very suddenly from NW at 255					
Apr. 13 10 MC +138.4 SC +25.4 SW +11.4 MT₂ -28.0 ST -0.6 Adv 1^m					

Date Saturday, Apr 13-14, 1940 M Julian Day[illegible]

p. 34

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
					Pointer at 20.72
					Clouds after sunset. - cleared later
3-0-21	55 hr	14-32	2	9.9 G5	$\frac{1}{2}$ -1- $\frac{1}{2}$ light clouds at 21.20 thick at 22.20 clouds in interval Thick and remained thick at 23.20
					Closed dome. 23.30
					Snowing quite hard as dome closed.

[illegible]

Printer at 21.3

Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp.	REMARKS
1 ²⁵ W	17 50	2-3	6.71 F ₀	1-2-1	K.S.A. brighter comp.
2 ¹⁷ W	28 40	2-3	7.58 F ₂	1-2-1	K.S.A.
2 ⁴² W	27 39	2-3	6.95 F ₅	1-2-1	K.S.A.
3 ¹² W	30 21	2-3	6.82 A ₅	1-2-1	K.S.A. (Set on wrong star first.)
2 ¹⁰ W	30 16	2-3	7.16 F ₀	1-2-1	K.S.A. 55
—	42 25	2-3	7.54 A ₂	1-2-1	K.S.A. 33
Layer about 1.40 thick & 200 sky remaining mostly thick.					
Apr. 15 MC SC SW MT ST 12 +141.4 +26.1 +35.7 -26.4 -0.6^{my}					

Date Monday April 15-16 H-L Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
5568	H.D. 99607	11 22.5	45 07	I-12 $\frac{1}{2}$	Astra II	Set. .010	^B +3.0	23 16	00 06 4	2 ¹⁰ W.
5569	" 10 16 20	11 36.5	41 48	"	"	"		00 20	01 36 1	3 ¹⁷ W.
5570	" 12 23 65	13 36.4	09 22	"	"	"	+5.3	01 45 55	02 25	1 ⁴⁶ W.
5571	" 13 94 93	15 33.4	54 57	"	"	"	+5.3	02 30	02 56 3	0 ⁴¹ W.
5572	" 15 76 17	17 19.2	08 56	"	"	"	+4.8	03 01	03 47 4	0 ¹⁵ E.
5573	" 17 02 00	18 23.1	06 08	"	"	"	+4.5	03 52	04 36 1	3 ³⁰ E.
7 mes Apr 16-17 H ₂ - (L) Thinning at summit. only all evening till about										

Cloud + drizzle early evening. p. 38

Pointer set 23.3 ^{ext did not come on, but} galv. ran up. Reset 23.7

Ending Time LST.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp.	REMARKS
01 4	2 ¹⁰ W	+44 52	2	7.14 F ₀	1-2-1	KSA 31
01 3	3 ¹⁷ W	+41 34	2	7.26 F ₅	1-2-1	" " Haze
02 25	1 ⁴⁶ W	+09 08	2	5.94 A ₂	1-2-1	B.S.C. Had wrong star, reset.
02 16	0 ⁴¹ W	+54 48	2	5.74 A ₀	1-2-1	" "
02 47	0 ¹⁵ E	+08 52	2	6.99 K ₂	1-2-1	" "
02 36	0 ³⁰ E	+06 08	2	5.57 B ₈	1-2-1	" " !Heat control acting up. let temp fall to 4.5 then reset.
01 00	first mag stars showing					Light clouds at start of 5573 sky much hazier.
01 00	23.10					
						Apr. 16 12 MC +1 43.2 SC +26.5 SW -12.2 MT -27.0 ST -0.6

Date Tuesday Apr 16-17, 1940 Hd-L Julian Day.

Wednesday. Apr 17-18 1940 M
Rain all evening

Reading Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Remarks																		
0 ⁴² W	-04 52	0-1	6.10	F ₂ 1-2-1	<i>note: I took the star just south of BSC the one marked on the field chart, agrees better in dec. and brightness.</i>																		
0 ¹³ E	+14 38	0-1	5.77	A ₀ 1-2-1	B.S.C.																		
0 ²⁰ E	+18 37	0-1	5.88	A ₃ 1-2-1	"																		
0 ¹⁴ W	-03 39	0-1	5.69	A ₃ 1-2-1	" (Haze)																		
1 ⁰⁶ W	55 58	1	6.92	K ₀ 1-2-1	"																		
0 ⁴² W	53 25	1	7.13	K ₅ 1-2-1	"																		
<table> <tr> <th></th><th>MC</th><th>SC</th><th>SW</th><th>MT</th><th>ST</th></tr> <tr> <td>Apr. 17</td><td>12 +1 45.0</td><td>+26.8</td><td>+59.4</td><td>-30.2</td><td>-0.6^m</td></tr> <tr> <td>Apr 18</td><td>12 +1 45.0</td><td>+27.5</td><td>+1 11</td><td>-32.0</td><td>-0.7^m</td></tr> </table>							MC	SC	SW	MT	ST	Apr. 17	12 +1 45.0	+26.8	+59.4	-30.2	-0.6 ^m	Apr 18	12 +1 45.0	+27.5	+1 11	-32.0	-0.7 ^m
	MC	SC	SW	MT	ST																		
Apr. 17	12 +1 45.0	+26.8	+59.4	-30.2	-0.6 ^m																		
Apr 18	12 +1 45.0	+27.5	+1 11	-32.0	-0.7 ^m																		

Date _____

Julian Day

Hour Angle
End

Cloudy Fairer.

Temp Control - 250

Reading Time L.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
154	2 01W	55 39	0	6.97 K2	1-2-1
154	0 47W	30 49	0	5.82 A2	1-2-1
					MC SC SW MT ST^m Apr. 19 12 +1 47.5 +27.6 +22.4 <u>-33.8</u> +0.4^m Adv 1^m +26.2 Reset.
					22 12 +1 51.1 +29.7 +58.1 +26.5 +0.4^m Reset.

Date Monday, April 22-23, 1940, M-L Julian Day

[illegible]

Points at 25.76

Ending Time L.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS	
					Ac. Close by for first part of night. Obs. about 21 ^h	
1 37W	11 19	1-0	6.52	(M ₂)	1-2-1	
0 04W	86 20	1			$\frac{1}{2}-1-\frac{1}{2}$	R 1. set to 16 21.9
0 28W	77 43	2	6.66	A ₀	1-2-1	spots not correct
0 22W	13 03	2-1	6.46	A ₀	1-2-1	

Date *Tues. April 23-24, 1940* *Hol. L* Julian Day.

[illegible]

Pointer at 8.7 (end plug in)

P. 46

Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS	
20 22 2	E 17 ^m 32 40	2	5.81 B9	1-2-1	KSA
23 0	E 4 ^m 23 36	2	6.45 A2	1-3	Bin
24 4	W 57 ^m 30 35	2	7.52 A2	1-2-1	KSA. Clouds, last hour, closed 00.00
				MC	SC SW HT ST
				Apr. 24 12	-04.2 +30.2 +25.2 +25.2 +0.4
				Removed	
				wt. 2.0	

Date Wednesday, April 24-25, 1940 H-L Julian Day.

[illegible]

Temp set 11.7 (at 19¹⁵) Shut off 20³⁰-22⁰⁰. React

10.7

p. 48

	M.C.	SC	SW	MT	ST
Apr. 25 12	-6.0	+30.8	+35.8	+24	-0.7

Aurora 21⁴⁵ - 22³⁰

49

Date

Thursday Apr 19th 1940 L-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	
5591	H.D. 93847	10 44.9	56 46	I-12 $\frac{1}{2}$	Astra II	Set. .010	B 10.7	20 00	21 40	3 0 ⁵¹ W 50	
Hd+L changed to I-25								I-12 focus work			26.20
5591 F	Focus			I-25	Astra II	0.10				26.20	
- 5592	Alcor H.D. 116842	13 21.2	55 30	"	Process	"	10.6	22 26	23 26	3 0 ⁰² W 55	
5593	H.D. 142926	15 52.2	42 51	"	Astra II	"	10.5	23 45	00 55	4 21 ⁴ W 42	
5594	"	"	"	"	"	"	10.6	00 55	2 05	1 41 ⁰ W 44	
5595	"	"	"	"	"	"	10.6	2 05	3 15	2 41 ⁰ W 44	
5596	"	"	"	"	"	"	10.5	3 15	4 25	3	
Fri ap. 26/40 Hd											
Changed to I-12											
5595 F	Focus			I-12	Astra II	0.10	B 8-6			3 26.20	

Date Friday April 26-27, 1940, H-B Julian Day 2454110

[illegible]

Reset focus to 26.16 from 26.19₂₀. P.52
Temp. set 10.3 (both plugs in.)

[illegible]

Hour	Angle	End	D
W2	03	1	
W1	26	2	
W4		2	
W13		-	
W36		-	
W46			
C 54W			
C 54W			
C 54W			
C 54W		2	

[illegible]

Ending Time
E.S.T.

Hour	Angle End	Declination	Seeing	Ptg. Mag.		Pointerset 13.4	REMARKS
------	--------------	-------------	--------	-----------	--	-----------------	---------

21 27 2	1 58 W	30 29	0	6.82	A ₅	1-2-1	KSA. 61
23 1 3	1 27 W	27 00	0-1	7.21	F ₂	1-2-1	"
0 13	0 43 W	35 16	0-1	6.98	K ₀	1-2-1	BSC.
0 08	0 48 E	50 02	0-1	6.18	F ₀	1-2-1	"
0 17 2	0 50 E	12 28	1	6.04	A ₂	1-2-1	"
0 3	0 18 W	32 37	0-1	7.26	K ₀	1-2-1	KSA. 61
0 1	1 22 W	27 15	1	6.79	F ₅	1-2-1	" " Haze
0 3	0 05 E	02 25	1	5.60	B ₈	1-2-1	B.S.C. Haze

		MC	SC	SW	MT	ST
Apr. 29	10	-06.5	+32.6	+12.6	-29.0	-0.5 ^m
					Reset	

Apr. 30	10	-06.4	+33.0	+27.7	-35.4	-0.4
Apr. 31	13	-06.5	+33.5	+40.7	-40.8	-0.7 ^m
May 2	10	-07.0	+33.6	+49.6	-40.0	-1.2
May 3	10	-07.0	+33.6	+03.2	+18.2	+0.2 ^m
May 4	10	-07.0	+33.6	+18.6	+18.6	+0.3 ^m

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Date Saturday - May 4-5 1940 M - B Julian Day.....

[illegible]

p. 58

Over 200 visitors. M showed M 3 and
Y vis with 74", H. showed Venice
with 4".

[illegible]

Date Sunday May 5-6, 1940 B-L

Julian Day

[illegible]

Printer at 15.3; later rec'd. to 15.8

	MC	SC	SW	MT	ST
May 6	12 -07.1	+35.1	+34.7	+19.4	+0.3

Date Monday, May 6-7 M-L Julian Day _____

[illegible]

Pontes set at

[illegible]

Date Tuesday May 7-8, 1940 H-L Julian Day

[illegible]

Clouds early evening; gradually thinning 21 h on.
 Temperature abt 12.6.

P.64

Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS		
1 07 W	+77 45	1-2	6.64	A0	1-2-1	1 SA.5	Light haze
1 39 W	+72 14	2	7.44	K0	1-2-1	" 5	" "
0 " W	+61 53	2	7.10	A2	1-2-1	" 15	
1 03 E	+61 11	2	7.11	F5	1-2-1	" 16	
0 58 E	+60 21	2	6.88	A2	1-2-1	" 16	
1 07 E	+65 23	2	6.08	A3	1-2-1	B.S.C.	Clouds p25-
0 36 W	+72 28	1	6.96	K0	1-2-1	"	Clouds, thicker to-ward end.
							remaining mostly thick.
							MC SC SW MT ST may 8 10 -08.1 +35.6 +09.6 +17.2 +0.3 Adv. m

Date Wed May 8-9, 1940 Hd-L Julian Day.

[illegible]

Date Thurs May 9-10, 1940 140 Julian Day.

[illegible]

Pointer at 12.8

Ending Time L.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
20 39 1	W 1 ^h 01	8 55	1	5.70	A0	1-2-1 Earthshine
22 05 2	W 48 ^m	30 35	1	7.52	A2	1-2-1 R.A. clamping unclamps but does not clamp.
22 41 3	E 19 ^m	1 20	1	6.02	A3	1-2-1 Heat had not been coming on. Reset at 11.3
23 21 4	E 12 ^m	1 05	1-2	5.88	A3	1-2-1
0 03 5		16 16	2	7.55	G0	1-2-1
0 16 2	0 16 W	56 00	2	6.92	H0	1-2-1
0 21 3	0 21 W	76 20	2	7.59	F5	1-2-1
0 32 4	0 32 W	57 02	3	6.61	A2	1-2-1
0 42 5	1 22 W	29 38	3-2	7.52	A2	1-2-1 Seeing worse toward end.

	MC	SC	SW	M.T.	S.T.
May 10	-08.9	+37.6	+34.2	+09.4	+0.1 ^m

Friday May 10, H + Hd cleared contacts in the mostat, and wiring in thermostat bridge. Checked again Saturday morning. Apparently still O.K.

Date Saturday May 11-12, 1940 H-T Julian Day 141

[illegible]

about 150 + visitors. It showed Neptune and M3; Vokoval 21.10.80 and Venus int. of "

Time lost after visitors due to sec. clamp staying on; cleaned strips
and adjusted contacts O.K. Temp. set 10.4 (p. 70)

p. 70

Ending Time LST.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS			
13	0 15 E	+26 56	2	5.96	A2	2-2	BSC		
13	0 01 E	+13 46	2	6.12	A5	2-2	BSC		
13	0 07 W	+28 50	2	5.72	A2	2-2	BSC		
13	0 15 W	+39 30	2-1	5.92	F2	2-2	BSC		
13		59 49	2	5.74	A0	2-2	BSC Set 1.		
13	0 13 W		2	"	"	2-2	Set 6.		
13		76 55	2	7.47	F0	1-2-1	KSA Haze - image gone 1.55 Variable Thick Haze thereafter. Closed 3.00 - Had to start shuttering by hand		
13	21.30						then thick again.		
13-14									
					MC	SC	SW	MT ₂	ST _m
May 13	14	-09.3	+41.1	+17.3	+08.4	+00			
May 14	10	-09.7	+41.9	+27.5	+07.0	+00			

Date Tuesday, May 14-15, 1940, H-L Julian Day.

[illegible]

Cloudy and showers during day; clearing at sunset, but still somewhat hazy at dark.

Temp set 15.2

P. 72

Ending Time
P.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
	+60 25	2	7.50	F0 1-2-	KSA 13 Clouds 20 ⁴⁵ Cloud shutters, Rain 21 ¹⁰ Several fairly clear intervals during evening, but repeatedly clouded over, and several light showers. Thunderstorms around horizon. Cloud up 23 ⁰⁰ .
					MC SC SW ST MT May 15 15 -10 +43.6 +42.6 +0.7 +5.0 ST MT May 16 13 -10.9 +44.1 +53.6 +05.2 0.0 ST MT May 17 10 -11.1 +45.0 +04.6 +06.0 0.0 ST MT Advis m Changed sets by 1 m May 18 10 -11.6 +46.1 +0.9 +07.0 +0.1 Removed wt 0.5

Date Saturday May 18-19, 1940, 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
- 5664	HD 15 0265	16 34.8	86 26	I-12	Astra II	.025 _L	^B +12.4	23 35	1 -	1
5665	16 47 53	18 21.1	-09 15	"	"	.015_L	"	1 56	—	2

p. 74

100+ visitors M showed moon through clouds with 74 inch and females
T showed Venus and double star with 4 inch
clouds for some time after visiting
hokiers.

Pointers set to 10-15.

Hour Angle End	Declination	Seeing	Ptg. Mag.
01 32W	86 19	2	8.6
			A0 1/2-1-1/2
			B2 1/2

Difficulty finding the due to haze. Exp soon hazed out.

	MC	SC	SW	MT	ST
May 20 10	-11.2	+47.7	-08.3	+12.2	+0.7

Date Monday May 20-21, 1940 H-L Julian Day

[illegible]

Date Tuesday May ²²~~21-20~~, 1940, M-L Julian Day

[illegible]

p. 78

R. A. Clough still
N. G.

Pointer at 16:00

[illegible]

Date Monday May 27-28, 1940, M-L Julian Day.

[illegible]

Date *Thursday, May 30-31, 1940 H-T* Julian Day.

[illegible]

Cloudy early evening; partly clearing from 21³⁰.
Thick haze came up again just after setting; delayed start.

Thick haze came up again just after setting; delayed start.

p. 82

[illegible]

83

Date... *Sunday, June 2-3 1940* B-Bs Julian Day

[illegible]

Date Tuesday June 3-4, 1940, M-B Julian Day.

[illegible]

A very
sufficient
basis of

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
22 ³¹			Poor		Hazy, light clouds delayed starting.
23 ⁴⁰			"		do
23 ⁴²					"
00 ⁰⁰					"
00 ¹¹					"
00 ⁴²					"
01 ²⁷					"
02 ⁰¹					"
02 ⁰⁸					Hazy guid Haze near end clouds, cloud. Guide star gone
02 ¹⁴					Hazy guid Clouds, - thick from 3 ⁰² " " "
a very hazy night throughout. Difficult to find guide stars, and to guide because of changing transparency.					MC SC SW MT ST Jun. 5 10 -07.4 +54.3 -102.7 +12.4 -0.1

Date Wednesday June 5-6/40 H.S.L. Julian Day.

[illegible]

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
2 35			Unsteady Vile		Strong breeze
21 00					
22 00					Bright aurora!
23 00					Aurora extending south over field.
00 00					
01 00					
02 00					Object not visible. Very bright-auroral curtains
03 00					
04 00					
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Date Thursday June 6-7/40 H.S.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
5720	NGC 5904	¹⁹³⁵ 15 15.1	+02 20	Newtonian	Astrat II			21 24	21 34	2 0 ⁵⁹ E
5721	" 5053	13 13.3	+18 03	"	"			21 42	22 09	1 1 ³⁵ W
5722	" 6205	16 39.3	+36 35	"	"			22 12	22 18	2 1 ³⁷ E
5723	" "	"	"	"	"			22 21	22 29	1 1 ²⁶ E
	" 5466	14 02.8	+28 49	"	"					
5724	" 6205	16 39.3	+36 35	"	"			23 29	23 35	2 1 ²⁰ E
5725	" 6218	16 43.8	-01 50	"	"			23 39	23 49	1 0 ¹¹ E
5726	" 6254	16 53.6	-04 00	"	"			23 55	00 05	2 0 ⁰⁵ E
5727	" 6779	19 14.0	+30 03	"	"			00 15	00 40	1 1 ⁵⁰ E
5728	" 6402	17 34.1	-03 12	"	"			01 25	02 00	1 1 ¹¹ W
5729	" "	"	"	"	"			02 01	02 36	1 1 ⁴⁷ W
5730	" 6366	17 24.1	-05 01	"	"			02 41	03 01	2 1 ⁵² W
5731	" 6779	19 14.0	+30 03	"	"			03 05	03 16	1 0 ⁴⁷ W
Fri June 7-8/40				Ad-L	Rain, occasionally partly clear with thin clouds					
Sat June 8-9/40				B-L	Showery. Showed Tel to about 14-15 miles					
Sun June 9-10/40				B-L	Cloudy. Sunday - cloudy with rain. H-4					

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
2 34	0 57 E				^{sc guide} Clouds low on horizon, slight haze.
2 35	1 35 W				S Light clouds passing. Bright Aurora!
2 36	1 37 E				S Haze
2 37	1 26 E				S Clouds
					S Waited for sky to clear off.
2 38	0 20 E				S Sky generally hazy.
2 39	0 11 E				S
2 40	0 05 E				^{Hy guide}
2 41	1 50 E				S Sky clear except for haze on horizon
2 42	1 11 W				S Waited for clouds to pass.
2 43	1 47 W				S
2 44	2 22 W				S
2 45	0 47 W				S
with haze 22.30 - 00.00					Jun. 7 10 ^{MS} -04.0 ^{SC} +01.0 ^{SW} -107.9 ^{MT} +13.0 ST +0.1
about 10 visitors					^{add 1m} ^{added 2.0} ^{weight}
Wed June 12-13 HD Cloudy					Jun. 8 10 ^{MS} -03.0 ^{SC} +03.5 ^{SW} -107.0 ^{MT} +14.0 ST +0.1

Date *Thursday, June 13-14, 1940* 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
5732	HD 100054	11 25.7	+60 15	I-12	Astro II	set 010	A B 21.7? 13.4 22.7	21 00	22 20	2
5733	14 0084	15 36.7	+76 46	"	"	"	13.2 21.7	22 26	23 36	3
5734	158996	17 27.2	+80 13	"	"	"	21.7	23 47	00 29	1
5135	163, 466	17:51.2	+60° 25	"	"	"	21.7	00 38	01 22	1
5736	178, 634	19:04.3	+59° 08	"	"	"	21.7	01 28	02 38	2
5737	181, 566	19. 15.9	+63° 02	"	"	"	21.6	02 47.	03 47	3
Friday June 14 - M										
5737 F.	sky spectrum			I-25	Astro II	010. 005	+16.1 152 30 60 140	setting	13 5 7 9	2

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Some trouble finding star in 74 inch due to bright NW sky - some haze. Focus far out, but collimator apparently same as before change to new telescope. Temp set 17.4.

Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS							
						MC	SC	SW	MT _s	ST _m	
						Jun. 10	12	-00.7	+38.0	-1.02.8	+15.7 +0.0
						Jun. 11	10	-00.8	+34.2	-53.9	+16.2 +0.0
						Jun. 12	10	+00.6	+49.7?	-58.3	+16.6 -0.0
						Jun. 13	10	+00.4	+53.3	-56.5	+16.0 +0.0
L 04 W	+60 02	0	7th	A5	1-2-1	Double - bright, preceding component [Limit HA 4 1/2 hr West]					
1 12 W	+76 39	0-1	7.58	A2	1-2-1	Zone 6					
0 17 W	+80 11	1	6.98	K2	1-2-1	BSC	RA 1940 incorrectly given. Should be about 17h 23m				
0 43 W	+60° 19	1	6.88	A2	1-2-1	KS A 16	[Humidity recorder not running]				
0 46 W	+59° 06	1-2	7.52	A2	1-2-1	" 17					
1 09 W	+63° 02	1-2	7.33	F5	1-2-1	" 17	Had to replace Dec Clamp + QM fuse				
25"	12" was at focus	26.12	tilt 20.32								
Set 25" focus to	23.60	tilt		23.15	temp.		+16.1	B.			
use outside	5 filter.	focus a little long									
						MC	SC	SW	MT _s	ST _m	
						Jun. 14	10	+0.2	+00.6	-54.9	+16.2 +0.1
						Adv 1m added wt.					

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Date Friday, June 14 - 14 Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature B	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
5737 F ₂	sky -			I-25	Astrat	1005	+16°	exp 30 20 30 45 70	setting 3 5 7 8.5 10	112
5737 T ₁	sky			-	Astrat	1005	+16°	exp 612 ²⁵	159	1
5737 T ₂	"			-	-	-		612 ²⁴	-	2
5737 T ₃	"			-	-	-		-	-	3
5737 T ₄	"			-	-	-		-	-	4
5737 T ₅	"			-	Procen	-		exp 40 ²⁴⁰	28	1
5737 T ₆	"			-	E-33	-		exp 20 ⁶⁰	28	2
5737 T ₇	"			-	-	-		-	-	3
5737 T ₈	"			-	-	-		-	-	4
Fri June 14-15				14d - B	Steadily thickening from west					

Date Saturday June 15-16, 1940, ^{Bs} M-B Julian Day

[illegible]

p. 98

About 70 visitors. M showed moon and A43 with 74" moon with finder. B2 showed ♀ ♀ ♂ with four inch Cooke.

Ending Time L.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS					
						MC	SC	SW	MT	ST	
						Jun. 15	10	+00.4	-02.1	-53.1	+17 ^s .3 -0 ^m .0
	Changed over to 12".					25" focus lost at 23.40 tilt at 23.15					
	to 20.32					Pointer at 17.22					
01 ³⁰	0 27 W	-9 15	1	7.47	B2	$\frac{1}{2}$ - $\frac{1}{2}$					
01 ⁰¹	0 32 W	-14 45	1	6.42	A2	1-2-1 (Error in setting dec.)					
03 ⁴	1 40 W	57 55	2	6.41	B8	1-2-1 K.S.A. 17					

Date Sunday, June 16-17, 1950, B Julian Day.....

[illegible]

Roset Strömberg og hien

Printer at 17.9

[illegible]

Date Monday, June 17-18, 1940 H

Julian Day.

[illegible]

Date Tuesday, June 18-19, 1940 - L Julian Day

[illegible]

Date Wednesday June 19-20, 1940 - L Julian Day.

[illegible]

Counter set at 15.45

[illegible]

107

Date Friday, June 21-22, 1940 B

Julian Day.

[illegible]

Pointer at 13,8

Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS	
0 33 E	47 39	1	6.58 A ₀	1-2-1	K.S.A. 35 Y Cirrus clouds.
0 22 W	-03 37	1-0	5.69 A ₃	1-2-1	B.S. Hd Temp. drop due to poor pointer contact. Reset at 19.
0 24 W	38 51	1	6.98 K ₀	1-2-1	B.S. H Move clouds.
1 25 W	06 20	1	6.98 K ₀	1-2-1	B.S. Hd
1 00 W	26 30	1	6.96 K ₀	1-2-1	B.S. Hd
0 15 W	50 30	1-2	6.08 F ₀	1-2-1	B.S. Y Thick broken clouds. Image lost at 25.

Date Saturday June 22-23, 1940 - 14-B_N Julian Day.

[illegible]

Σ 22.17α

11-12

Date Tuesday, June 25-26, 1940 17

Julian Day.

[illegible]

P. 112

		MC	SC	SW	MT	ST _m
Jun. 26	10	-08.9	-08.5	-43.2	+17.2 ^s	+0.3 ^m
Jun. 27	13	-14.1	-19.9	-42.7	+18.2 ^s	+0.3 ^m

Date 1940 June 27-28 Thursday Bs Julian Day 9808

[illegible]

[illegible]

Date 1940 June 28-29, Friday B Julian Day 243

[illegible]

Pointer at 13.9

		MC	SC	SW	MT	ST
Jun. 29	20	-12.9	-26.1		+16.0	+0.1

Date Saturday, June 29-30, 1940 H-N BS Julian Day 9810

[illegible]

Date Sunday, June 25-July 1, 1940 B Julian Day.....

[illegible]

Printer 14.2

[illegible]

121

Date 1950 July 1-2 Monday BS Julian Day 9812

[illegible]

123

Date

Tuesday July 2-3/40 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
5804	NGC 5904	¹⁹³⁵ 15 15.1	+02 20	Newtonian	Astro II			21 30	21 38	2	0 49 W
5805	" 6205	16 39.3	+36 35	"	"			21 43	21 49	1	0 24 E
5806	" 5466	14 02.8	+28 49	"	"			21 58	22 23	2	2 47 N
5807	" 6205	16 39.3	+36 35	"	"			22 30	22 35	1	0 23 W
5808	" 6402	17 34.1	-03 12	"	"			22 50	23 25	2	1 17 W
5809	" 6779	19 14.0	+30 03	"	"			23 32	23 32	1	0 52 E
5810	" 6366	17 24.1	-05 01	"	"			23 59	00 24	2	1 27 W
	KSA. 109	17 41.8	-00 11	"	"			00 27	00 52		1 31 W
5811	NGC 6779	19 14.0	+30 03	"	"			01 01	01 21	1	1 35 W
5812	" 6402	17 34.1	-03 12	"	"			01 28	01 56	2	2 49 W
5813	" 6205	16 39.3	+36 35	"	"			02 06	02 20	1	2 06 W
5814	" 7089	21 29.9	-01 07	"	"			02 33	02 43	2	2 24 E
5815	" 6779	19 14.0	+30 03	"	"			02 50	03 10	1	2 24 W

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
2 ²⁰	0 49 W				From N. d. Bortin
2 ²¹	0 24 E				Squidly
2 ²³	2 47 W		Fair		
2 ²⁴	0 23 W				↓
2 ²⁵	0 17 W				← Referred
2 ²⁶	0 55 E				Hguidly
2 ²⁷	1 27 W		Fair?		S "
2 ²⁸	1 37 W		becoming worse		← Referred
2 ²⁹	0 35 W				
2 ³⁰	2 49 W				Shut off by clouds.
2 ³¹	4 08 W				Clouds. Shutter closed for about 4 mins
2 ³²	0 20 E				
2 ³³	2 24 W				
July 3 10 ^{M.C.} ^{S.C.} ^{SW} ^{MT} ST ^{-15.5} ^{-42.6} ^{+20.0} ⁺²⁵⁵ ^{+0.7}					

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Date Wednesday July 3-4/40 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
5816	NGC 6205	¹⁹³⁵ 16 39.3	+36 35	Newtonian	Astra II			21 21	21 27	1	0 42 E
5817	" 5904	15 15.1	+02 20	"	"			21 33	21 41	2	"
5818	" 5466	14 02.8	+28 49	"	"			21 55	22 20	1	2 40
5819	" 6205	16 39.3	+36 35	"	"			22 26	22 31	2	0 22
5820	" 6402	17 34.1	-03 12	"	"			22 42	23 17	1	13
5821	" 6779	19 14.0	+30 03	"	"			23 24	23 44	2	50 E
5822	" 6218	16 43.8	-01 50	"	"			23 51	23 51	1	1 44 W
5823	" 6254	16 53.6	-04 00	"	"			00 00	00 06	2	42
5824	" 6366	17 24.1	-05 01	"	"			00 16	00 36	1	45 W
	K.S.A. 109	17 41.8	-00 11	"	"			00 41	01 01		50
5825	NGC 6402	17 34.1	-03 12	"	"			01 04	01 39	2	51
5826	" 6779	19 14.0	+30 03	"	"			01 46	02 06	1	24 W
5827	" 6981	20 49.5	-12 48	"	"			02 12	02 37	2	9 W
5828	" 6205	16 39.3	+36 35	"	"			02 43	02 49	1	4
5829	" 6779	19 14.0	+30 03	"	"			02 56	03 11	2	23 W
5830	" 7089	21 29.9	-01 07	"	Eastman 40			03 15	03 21	1	22 W

Ending Time L.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
2 41	0 42 E				
2 42	0 56 W				
2 43	2 48 W				
2 44	0 22 W				
2 45	0 13 W				< Refocused
2 46	0 59 E				Brilliant arrow
2 47	1 44 W				seeing getting worse, becoming
2 48	1 43 W				unsteady.
2 49	1 45 W				< Refocused
2 50	1 50 W				
2 51	2 36 W				
2 52	1 24 W				
2 53	0 19 W				
2 54	4 41 W				
2 55	2 29 W				
2 56	0 22 W				

July 7 10

MC	SC	SW	MT	ST
-17	-47	+219	+28	+0.3

Date Thursday July 4-5/40, S-H-L Julian Day

[illegible]

Ending Time L.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
21 87	0 38 E				
21 42	1 01 W				
21 46	2 48 W				Scattered light clouds to 22 ⁰⁰ thicker after.
21 48	0 23 W				
21 50	0 15 E				Traced to close by clouds.
21 51	1 14 W				< Refocused
					Traced to close by clouds only first three minutes on the star.
					A bad night
					July 5 10 MC SC SW MT ST -17 ^s -52 ^s +21 ^s +30 ^s +0.5 ^m

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Date Friday July 5-6/40 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
5838	N.G.C. 6205	¹⁹³⁵ 16 39.3	+36 35	Newtonian	Eastman 40			21 18	21 24	1
5839	" 5904	15 15.1	+02 20	"	"			21 31	21 39	2
5840	" 6402	17 34.1	-03 12	"	Astra II			21 45	22 20	1
5841	" 6205	16 39.3	+36 35	"	Eastman 40			22 26	22 32	2
5842	" 6779	19 14.0	+30 03	"	"			22 36	22 56	1
5843	" 6402	17 34.1	-03 12	"	Astra II			23 08	23 43	2
5844	" 6218	16 43.8	-01 50	"	Eastman 40			23 50	23 56	1
5845	" 6254	16 53.6	-04 00	"	"			00 01	00 27	2
5846	" 6402	17 34.1	-03 12	"	Astra II			00 10	00 45	1
5847	" 6366	17 24.1	-05 01	"	"			00 48	01 08	2
5848	" 6402	17 34.1	-03 12	"	"			01 18	01 53	1
5849	" 6981	20 49.5	-12 46	"	"			01 58	02 23	2
5850	" 7089	21 29.9	-01 07	"	Eastman 40			02 29	02 39	1
5851	" 6205	16 39.3	+36 35	"	"			02 45	02 53	2
5852	" 6779	19 14.0	+30 03	"	Astra II			02 57	03 17	1

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
2 34	0 37 E				Squid } Lev.
2 35	1 02 W				
2 36	0 35 E				} Lev.
2 37	0 32 W				
2 38	1 39 E				
2 39	0 47 W				Refocused Squid meter at 23.10 right through field of eyepiece } Lev.
2 40	1 51 W				Squid
2 41	1 52 W				
2 42	1 50 W				About the best seeing } Lev.
2 43	2 22 W				was experienced on a
2 44	2 58 W				Newtonian sight here
2 45	0 12 W				✓ under.
2 46	0 11 E				
2 47	4 53 W				
2 48	2 43 W				✓
					L+H changed back to Cass, at dawn.

Date. Sat July 6-7/40 Hb-N-Bs Julian Day 9817

[illegible]

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23 82
23 41
0

Date Sunday, July 7-8, 1940 B Julian Day

Hour	Angle	End
40	E	
47	E	
50	E	
54	W	
56	W	
57	W	
58	W	
59	W	
60	W	
61	W	
62	W	
63	W	
64	W	
65	W	
66	W	
67	W	
68	W	
69	W	
70	W	
71	W	
72	W	
73	W	
74	W	
75	W	
76	W	
77	W	
78	W	
79	W	
80	W	
81	W	
82	W	
83	W	
84	W	
85	W	
86	W	
87	W	
88	W	
89	W	
90	W	
91	W	
92	W	
93	W	
94	W	
95	W	
96	W	
97	W	
98	W	
99	W	
100	W	

Pointer at 20.0

Ending Time EST.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
3	140E	27 07	2-3	7.22 A ₂	1-2-1 KSA. 62(M)
5	0 47E	12 30	2-3	7.29 B ₈	1-2-1 " 86(H)
5	0 20E	42 54	2-3	7.49 B ₈	1-2-1 " 38(M)
0 24	0 14W	45 50	2-3	6.80 B ₉	1-2-1 " 38(H)
0 24	1 36W	17 50	2	7.50 F ₀	1-2-1 " 87(V)
0 24	1 14W	32 42	2-3-1	6.69 B ₉	1-2-1 " 64(M) <i>Seeing variable</i>
0 24	(1 22W)	42 46	2	7.06 A ₀	1-2-1 " 40(H) <i>Clouds at 3 05</i>
					mc sc sw MT ST July 8 10 -19' -06' +22' +31' +0.6
					2 filters
					8-10
					" "
					8-10
	Setting 2				9-12
	5				
	9				
	windows of dome + flowed down stairs.				

Date 1940 July, 8-9 Monday BS Julian Day 9819

[illegible]

Delayed opening due to thinning clouds
 Pointer set 19.2

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Ending Time LST	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp. Prog.	REMARKS
	1 ²⁶ W	+50° 00	1	6.18 F0	1-2-1 BSC (Y)	
	1 ¹⁵ W	+57° 36	1	6.51 F2	1-2-1	KSA 16 (Hd) } RA. circle had been shifted Thick haze 23 ⁰¹ - 23 ²²
16	0 ³² W	+41° 24	1-2	5.86 B9	1-2-1	
	0 ¹¹ W	+47° 12	2	6.52 F0	1-2-1	KSA 39 (H) } Lightning in south Seeing variable
	0 ⁰⁶ W	+44° 06	2	6.52 B8	1-2-1	
	0 ⁵³ W	+47° 18	" 2	7.20 B9	1-2-2	KSA 40 (M)
	13 ⁰⁷ W	+44° 48	2	6.95 F8	1-2-1	KSA 42 (H)
7					2 filters 9-12	SW MC SC SW MT ST July 9 10 -20.5 +1.08 +2.2 +30.5 +9.5

Date Tuesday July 9-10/60 L Julian Day 171

[illegible]

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Date Wednesday July 10-11/40 L Julian Day 172

[illegible]

Date Friday, July 12-13, 1940 B Julian Day.....[illegible]

Pointer at 15.3

Ending Time LST.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
44	0 09 E	27 18	1-2	6.79 F5	K.S.A. 61 (Y)
51	0 28 W	44 03	1	7.25 A ₂	1-2-1 K.S.A. 37 M
52	0 31 W	44 18	1-2	7.40 B ₉	1-2-1 " 38 M
53	0 43 W	43 48	1-2	6.58 A _{0p}	1-2-1 " 39 H
54	1 50 W	45 18	1-2	7.58 A ₂	1-2-1 " 39 Hd
55	0 46 W	33 06	2	6.95 A ₃	1-2-1 " 66 Hd
					MC SC SW MT ST 13 10 -24 +1:11.7 +34.7 +30 +0.5

Date Sat July 13-14, 1940 Md-Bk Julian Day 2824

Sunday July 14-15, B. Cloudy

Date 1940 July 15-16 Monday Bs Julian Day 9826

Hour Angle
End

Ending Time
E.S.T.

	MC	SC	SW	MT	ST
July 16 10	-27	+251	+27	+300	+0.5

Date Tuesday July 16-17/40 L Julian Day _____

[illegible]

Date Wednesday July 17-18/40 L Julian Day 17

[illegible]

Pointer set at 19.25

Ending Time R.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp	REMARKS
2 ⁰⁰	1 ⁵⁶ E	31 08	1-2	6.73 B ₉	1-2-1	K.S.A 63 M
2 ⁰²	0 ⁵⁶ E	33 01	1-2	6.89 B ₅	1-2-1	" " M
2 ⁰³	0 ²³ E	47 45	2-3	7.59 M _a	1-2-1	" 39 H
2 ⁰⁵	0 ¹³ W	47 14	2	6.52 F ₀	1-2-1	" " H
2 ⁰⁷	1 ²⁴ W	15 40	2	7.32 B ₉	1-2-1	" 88 M
2 ⁰⁹	0 ³⁸ W	17 16	2	6.98 A ₀	1-2-1	" 90 Y
2 ¹¹	0 ¹² W	44 14	2	6.36 A ₀	1-2-1	" 42 H
				2 filters 9-12		Set 2 ¹
						" 7 ¹
						July 18, 0
						MC SC SW MT ST
						-28.5 +256 +26 +29.5 +0.5

Date Thursday, July 18-19, 1940 H

Julian Day

[illegible]

Date Sunday, July 21-22, 1940 B Julian Day.....

[illegible]

Date 1940 July 22-23 Monday Bs Julian Day 9833

[illegible]

156.

Pointer set 23.55

B cleared slit to avoid central unexposed streak
in * spectra, noticed on plates 5898 ff.

Ending Time LST.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
20 ⁵⁸		+04° 20	1.2	5.73 A ₀	1-2-1 BSC(Hd) Slight Haze + clouds (D. vel.)
22	0 ²⁶ W	+08° 57	2	6.99 K ₂	1-2-1 - (H) Clouding up. Variable thereafter.
5		+43° 58	2-3	6.78 A₂	Improving toward O ^h . KSA to (Y) { Sky mostly overcast by haze soon after reopening. Reset pointer 22.1 Shutter closed O ^h 5. P. H. 1 left loaded for re-use.
					me SC SW <u>MT ST</u>
					July 23 10 -36 +234 -40 +26 +0.4

Date Tuesday July 23-24/40 L Julian Day.....

[illegible]

Date. Wednesday July 24-25/40 L Julian Day.

Hour	Angle	End	
1	52	E	1
2	10	W	
3	35	W	1
4	10	W	2
5	3	W	4
6	12	W	5

Pointer set at 23.4

Ending Time EST.	Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp.	REMARKS
22 ⁵	0 52 E	15 46	1-2	7.38	A5	1-2-1	K.S.A. 87 Y Light clouds, Spoiled in development R.S.N.
23 ⁷	0 10 W	17 37	1-2	6.84	A0	1-2-1	K.S.A. 87 M Haze
01 ²⁹	1 05 W	17 43	1-2	6.93	A2	1-2-1	K.S.A. 87 Hd
02	0 56 W	27 20	2-3	7.56	A0	1-2-1	K.S.A. 65 Y
03	0 37 W	43 15	3	7.36	B5	1-2-1	K.S.A. 42 M
04	0 22 W	59 38	1-2	6.38	A0	1-2-1	K.S.A. 19 Hd. Set 2 1/2
						2 filters 9-12	Set 7 1/2
							MC SC 8W STMT July 25 12 -40 +225 -38 +0.7 +235

Date Thursday, July 25-26, 1940 H

Julian Day.

[illegible]

Temp. set 22.6

Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
0 01 E	+61 14	5	7.11 F5 1-2-1 KSA 16	Lightning in N+W Clouds low in W+N; light haze patches.
	+12 02	5-4	7.55 F5 1-2-1 KSA 86	Increasing haze. Thick.
				mc sc sw <u>mt st</u>
				July 26, 10 -41 +22 -37 +20 +0.4
				July 27, 10 -42 +217 -39 +19 +0.3

Date. Saturday July 27-28, 1940 Ad. Bs Julian Day 9838

[illegible]

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Date.....*Sunday, July 28-29, 1940*..... Julian Day.....

[illegible]

Date Monday July 29-30/40 H-S-L. Julian Day.

Hour Angle	End
0 ⁴²	W
6 ⁵⁵	W
0 ⁵	E
3 ³	W

Ending Time L.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
21 59	0 42 W				Lightning flashes in
22 15	0 55 W				Hazy Light cloud. air N.W. continuing
22 50	1 05 E				" quite steadily.
22 56	1 36 W				Hazy Probably fogging the plates.
					Clouds after this exposure waited
					until 23 30 then closed. Sky
					cloudy
					July 30 10
					MC SC SW MT ST
					-46 +2 05 -46 +11 +0.2

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Date Tuesday July 30-31/40 H.S.L. Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Plate Hold	Hour Angle End
5942	NG.C. 6205	¹⁹³⁵ 16 39.3	+36 35	Newtonian	Eastman 40			21 11	21 17	1	5 ⁵⁴ W
5943	" 6779	19 14.0	+30 03	"	"			21 23	21 43	2	1 ¹⁵ E
5944	" 6366	17 24.1	-05 01	"	"			21 49	22 14	1	1 ⁰⁷ W
5945	" 6218	16 43.8	-01 50	"	"			22 17	22 23	2	4 ⁵⁶ W
5946	" 6254	16 53.6	-04 00	"	"			22 26	22 32	1	
5947	" 6779	19 14.0	+30 03	"	"			22 42	23 02	2	0 ⁰⁵ W
5948	" 6402	17 34.1	-03 12	"	"			23 15	23 55	1	2 ³⁷ W
5949	" 6366	17 24.1	-05 01	"	"			00 02	00 27	2	3 ⁰⁹ W
5950	" 6981	20 49.5	-12 48	"	"			00 36	01 06	1	7 ²² W
5951	" "	"	"	"	"			01 08	01 38	2	1 ⁰⁵ W
5952	" "	"	"	"	"			01 39	02 09	1	3 ¹⁶ W
5953	" 6205	16 39.3	36 35	"	"			02 22	02 30	2	7 ⁰¹ W
5954	" 6779	19 14.0	30 03	"	"			02 36	03 01	1	6 ¹⁵ W
5955	" 7492	23 05.1	-15 57	"	"			03 11	03 41	2	8 ²⁴ W
5956	" 7089	21 29.9	-01 07	"	"			03 44	03 52	1	4 ⁰⁴ W

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Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
21 7	0 54 W		Very		
21 13	1 15 E		poor		
21 4	1 07 W		↓		
21 23	1 56 W				
22 26					
23 2	0 05 W		possibly		
23 55	2 37 W		improving		
0 1	3 19 W		slightly		
1 06	0 33 W				
2 11	1 05 W		worse?		
2 11	1 36 W				
2 17	6 07 W				
2 17	4 05 W				
2 17	0 54 W				
2 17	2 40 W				

← refocused

	M.C.	S.C.	S.W.	M.T. ST	
July 31 10	-47	+2 01	-38.5	+8	-0.1
Aug. 1 10	M.C	S.C	S.W	M.T	ST
	-48	+157	-49	+6	0.0

This is the farthest south I have yet worked with Newtonian

Date Wednesday July 31 Aug 1 / 40 H.S.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
5957	NGC. 6205	¹⁹³⁵ 16 39.3	+36 35	Newtonian	Eastman 40			20 53	21 01	1 0 ⁴² W
5958	" 6779	19 14.0	+30 03	"	"			21 09	21 29	2 1 ²⁴ E
5959	" 6366	17 24.1	-05 01	"	"			21 32	21 57	1 1 ⁵³ W
5960	" 6218	16 43.8	-01 50	"	"			22 03	22 11	2 1 ⁴⁶ W
5961	" 6254	16 53.6	-04 00	"	"			22 13	22 21	1 1 ⁴⁸ W
5962	" 6779	19 14.0	+30 03	"	"			22 24	22 44	2 0 ⁰⁹ E
5963	" 6366	17 24.1	-05 01	"	"			22 55	23 20	1 2 ¹⁶ W
5964	" 6402	17 34.1	-03 12	"	"			23 26	00 02	2 0 ⁰² W
5965	" 6205	16 39.3	36 35	"	"			00 15	00 25	1 0 ⁰⁷ W
5966	" 6366	17 24.1	-05 01	"	"			00 32	00 57	1 0 ¹⁴ W
5967	" 6981	20 49.5	-12 48	"	"			01 01	01 31	1 0 ⁰³ W
5968	" 6981	"	"	"	"			01 32	02 07	1 0 ⁰³ W
5969	" 6779	19 14.0	+30 03	"	"			02 18	02 38	1 0 ⁰³ W
5970	" 7492	23 05.1	-15 57	"	"			02 49	03 34	2 0 ⁰³ W
5971	" 7089	21 29.9	-01 07	"	"			03 37	03 47	1 0 ⁰³ W

Cool NW wind; seeing very poor.

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Ending Time LST.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
1	0 42 W		Poor		H
2	1 24 E				S
3	0 53 W				
4	1 48 W				
5	1 48 W				
6	0 09 E				
7	2 16 W				H
8	2 52 W				H change - guide star almost gone frequently
9	4 07 W				S Haze
10	3 44 W				
11	1 03 W				
12	1 21 W				
13	3 45 W				
14	0 50 W				
15	2 39 W				

Date Thursday August 1-2/40 H.S.L. Julian Day

[illegible]

Date Friday, August 2-3, 1940 B Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Dec		
5984	H.D. 186377	19 38.9	32 11	I-12 1/2	Astoria II	.010	+22.0	22 45	23 17	4 05 W	3		
5985	186568	19 40.1	33 55	"	"	"	+22.0	23 20	23 50	1 03 W	3		
5986	187279	19 44.1	31 15	"	"	"	+21.6	23 54	00 48	1 06 W	3		
5987	191855	20 06.9	30 35	"	"	"	+21.6	00 53	01 45	2 06 W	3		
5988	216716	22 50.0	30 56	"	"	"	+21.7	01 50	03 36	3 14 W	3		
	219361	23 12.1	27 32	Too cloudy - couldn't find star in guide									
		1940 Aug 3-4		Saturday	M-Bs	Cloudy, w. H. light shower						30	
		Sunday Aug 4-5		B	Thunder shower								
		Monday - Aug 5-6,		M,	Thunder showers with heavy rain								

Pointer at 17.8
Cloudy earlier

176.

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
23 ¹⁷	0 05 W	32 17	1	5.95 A ₂	1-2-1 B.S. V Poor seeing and guiding
23 ¹⁷	0 38 W	34 00	1	5.95 A ₀	1-2-1 B.S. H
01 ¹⁸	1 32 W	31 20	1-0	6.65 A ₀	1-2-1 N.S.A. 64 M Seeing worse
01 ¹⁵	2 06 W	30 35	1	6.70 B ₉	1-2-1 " " M Haze
01 ²¹	1 14 W	31 09	1	7.41 A ₀	1-2-1 " 67 M Light Clouds
01 ²¹	guiding eyepiece		Closed dome.		
Aug 3 10 MC-52°SC+1:49MTST+04°0.0					
About 130 visitors - M showed telescope + lectured; Bs operated lantern. Aug 5 10 MC-53.5°SC+1:39.5MTST+1.5°0.0					
rain. Aug 6 10 SW-57+1:36-56°00°0.0					

Date Tuesday Aug 6-7, 1940 B-H Julian Day.

[illegible]

Printer at 19.8

Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
0 58E	-01 03	0	5.87 A ₂	1-2-1 B.S. Y
0 59E	02 28	1	5.60 B ₈	1-2-1 B.S. Y.
1 00E	02 49	1	5.90 B ₉	1-2-1 B.S. H
1 04E	00 07	1	5.57 A ₀	1-2-1 B.S. H.
0 30E	38 16	1	5.65 B ₉	1-2-1 B.S. Hd
0 45 W	12 45	1-2	7.57 F ₂	1-2-1 K.S. A 88 Y
1 41 W	44 11	2	7.51 F ₀	1-2-1 KSA 40
0 44 W	47 37	2-3	7.50 A ₀	1-2-1 42
0 57 W	45 52	3-4	7.34 G ₅	1-2-1 43
1 12 W	47 50	3	7.30 K ₀	1-2-1 43
Plates 5994-97 numbered 5794-97 by month				
M.C. SC SW MT ST				
Aug. 7 10 -59 1131 -1015 -02 -01				

Date 1940 August 7-8 Wednesday Bs Julian Day 9849

Hour	Angle	End
20	-0	
30	+0	
40	+0	
50	-0	
60	+0	
70	-0	
80	+0	
90	-0	
100	+0	
110	-0	
120	+0	
130	-0	
140	+0	
150	-0	
160	+0	
170	-0	
180	+0	
190	-0	
200	+0	
210	-0	
220	+0	
230	-0	
240	+0	
250	-0	
260	+0	
270	-0	
280	+0	
290	-0	
300	+0	
310	-0	
320	+0	
330	-0	
340	+0	
350	-0	
360	+0	

Pointer at 202

Ending Time EST.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp	Prog	REMARKS
2 4	-0 ²⁰	+22° 18'	1-2	5.99 A3	1-2-1	BSC (H)	
2	+0 ³²	+42° 58'	2-3	7.20 A0	1-2-1	KSA 37 (M)	
2	+0 ⁴⁰	+42° 58'	3	7.49 B8	1-2-1	38 (M)	
2	+0 ¹⁰	+42° 06'	3	6.54 A2	1-2-1	39 (Y)	
2	+0 ³⁴	+43° 09'	3	7.38 F2	1-2-1	40 (Hd)	
0	+0 ²⁰	+42° 58'	3	7.36 B9	1-2-1	41 (M)	
2	+0 ⁵¹	+45° 30'	3	7.57 F8	1-2-1	42 (Y)	
2	+0 ³⁵	+47° 54'	3-4	7.46 A0	1-2-1	43 (H)	
2	+0 ²⁸	+58° 00'	3-4	7.23 A3	1-2-1	8 (Hd)	While I was finding this star the heat failed to shut off, so galva needle worked over to left. Shut off heat + let temp. come back, instead of resetting
					2 filters 9-12		
							Aug 8 10 ME SC SW MT ST -60 +127 +03 -4 -0.2

Date Thursday, Aug 8-9, 1940 B Julian Day

[illegible]

Pointer at 22.5

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
	1 14E	16 54	4	5.67 A	2-2	B.S. Hd
	0 12W	29 57	4-3-2	7.59 G ₀	1-2-1	K.S.A. 62 H
	0 07E	35 57	3-2	6.6 A ₀	1-7-4	B.S. H (Plate unboxed) Temp. drops due to
	0 44W	—	3	7.4 A ₀	1-2-1	B.S. H (May have guided/care pointer contact.
	1 24W	24 50	4-5	6.09 F ₅ A ₂	3-6-3	B.S. H on 186901
	2 50W	16 30	3-2	7.59 A ₀	2-2-2	K.S.A. ⁸⁶ H ₀ during last of expo. of exposure of plate 62 H
	1 34W	18 07	2-3	7.40 K ₀	1-2-1	" 90 H that control is not operating
	1 24W	27 44	3	6.95 A ₀	1-2-1	" 67 M right. Have had to reset
	1 16W	46 04	3	6.98 B ₉	1-2-1	" 43 M several times to maintain
						temp.
						Temp dropped to 25.1 during
						last exposure.
						Six plates packed in cardboard box.
						Aug 9 10 MC SC SW (reset) TMT ST
						-1 ^m 03 +1 ^m 22.7 -01 ^s .4 -06 ^s -0 ^m .2
						SW reads Greenwich sidereal time
						correction 20^s -20 ^s .1

Contacts cleaned. ✓

Date Friday Aug 9-10, 1940 Hal Julian Day

[illegible]

Ending Time R.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
21 17 2	W 28 ^m	28 56	0.551	7.36 H0	1-2-1
22 57 3	W 41 ^m	13 00	1	7.7 B32	1-2-1
01 27	W 2 ^m 15	5 50	1	8.5 B32	1-1-1 Amp in Temp. Reset pointer (26.9)
02 47	W 1 ^m 47	56 25	2	8.1 B(5)2	1-1-1 Reset pointer again and repeatedly
04 30	W 1 ^m 40	61 52	3	8.2 B32	1-1-1 ^{too} ^{much} - finally controlled ^{heat} by watching thermometer.
Aug 10 10 - 65° M.C. SC + 1.18 MT ST - 05° - 0.1					
Found one of temp coils in spectrograph was floating from its moorings. Poked OK for a couple times.					

Date Saturday August 10-11, 1940 H-Bs Julian Day 9852

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.
6022	HD 182190	19 18.4	+57° 28'	I-12,	Astron II	Sat 010	27.4 - 28.2	22 28	23 24
6023	193265	20 14.3	+72° 34'	-	-	✓	27.7 -	23 45	00 45
6024	204,231	21:22.1	+57° 39'	-	-	✓	+27.7	00 49	01 59
6025	222,514	23:36.2	+57° 17'	-	-	✓	+27.7	02 03	02 51
6026	3881	00:36.3	+59° 23'	-	-	✓	+27.7	02 55	03 55
6027 (3)	8272	01:17.0	+57° 37'	-	-	✓	+27.7	03 58	04 24
17)	Focus test - outside thro' base					✓	+27.6	focus 26.16	f 12.43

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
6028	H.D. 177459	18 59.7	17 24	I-12 1/2	Astra II	010	+27.5	20 ¹⁴	21 ¹⁴	1
6029	177586	19 08.1	17 50	"	"	"	+27.5	21 ¹⁸	22 ⁰⁸	2
6030	187279	19 44.1	31 15	"	"	"	+27.5	22 ³²	23 ⁰⁸	3
6031	188876	19 52.2	32 48	"	"	"	+27.5	23 ¹²	00 ²⁴	2
6032	198690	20 47.0	42 01	"	"	"	+27.4	00 ³⁰	01 ²²	3
6033	210208	22 03.7	42 27	"	"	"	+27.4	01 ²⁶	02 ¹⁴	1
6034	224787	00 01.3	45 50	"	"	"	+27.4	02 ⁵⁰	03 ⁴⁰	2
6035 (5)	5764	00 24.2	47 29	"	"	"	+27.4	03 ⁴⁵	04 ²⁷	3
(8)	Focus test			Outside thro. base						
Monday August 12-13, 1940 H-							Cloudy with showers			

Printer at 19.8

Ending Time LST.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS	
0 43E	17 27	2	7.05 F5	1-2-1	1.5 A. 87 Y	Very hazy
0 23W	17 54	2	7.50 F0	1-2-1	" " Y	
0 27W	31 21	2	6.65 A0	1-2-1	" 64 M	
1 35W	32 55	2	7.24 A0	1-2-1	" " M	Light clouds
1 38W	42 10	2	7.15 B8	1-2-1	" 40 M	
1 44W	42 40	2	7.50 B9	1-2-1	" 41 M	Clear
0 39W	46 04	2	6.98 B9	1-2-1	" 43 M	
0 36W	47 42	2-3	6.95 B8	1-2-1	" 20 M	
					MC SC	MT ST
					Aug 12 -1.08 +1.09.4	-03.5 -0.1
					Aug 13 -1.01 +1.07	-04 -0.2

Date Tues Aug 13th, 1940 Hel

Julian Day.....9855

[illegible]

Date 1940 August 14-15 Wed Ps Julian Day 9856

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	
6039 (5) HD	166,976	18:08.0	+12°22	1-12	Astra II	set .010 ✓	+27.9	20 ⁰²	21 ⁴⁴	4
6040 ✓	192,954	20:12.6	+15°33	—	E 40	— ✓	+28.0	21 ⁴⁷	00 ²⁷	1
6041 ✓ (8)	215,502	22:05.7	+11°08	—	Astra II	— ✓	+27.9	00 ³⁷	01 ³⁷	2
6042 (5) ✓	219,699	23:12.8	+30°29	—	—	— ✓	+28.0	01 ⁴⁰	03	3
6043 (5) ✓	224,380	23:52.3	+47°43	—	—	— ✓	+27.9	03 ³⁹	04 ⁴³	4
(6) Focus test	outside thro' base	—	—	—	—	—	+27.9	Focus 26 15	11 00 30	4
(3) HD 224,175 ?	23:50.7 ?	+47°40 ?	—	—	—	—	—	03 ⁰⁹	03 ³³	4

Pointer Set 20.0

Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
+0 ⁵⁰	+12°24	2	7.55 F0	1-2-1 KSA 86 (H)
+1 ²⁹	+15°40	2	7.32 B9	2-4-2 - 88 (M) Spots 6 ^m No backing
+0 ⁴⁶	+11°20	2	7.10 K5	1-2-1 BSC (Ha) Error in setting dec. corrected
+1 ⁰²	+30°40	2	7.44 F0	1-2-1 KSA 67 (Y)
+2 ⁰⁵	+47°59	2	7.46 A0	1-2-1 - 43 (H) K { Right star? E N W 2 filters 9-12 Finally decided on after exposing on for some time
0 ⁵³	+47°58	2	7.82? K0?	1- (from HD. Cat.)
				MC SC Aug. 15 10 -113.5 +08.7 ST MT -0.2 -0.5

Date Thursday, Aug 15-16, 1940 M Julian Day 407

[illegible]

Pointer at 19.13.

Ending Time EST.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
21 56	0 49 W	10 50	2-3	7.9 A ₀	1-1/2-1	
23 17	0 47 W	-14 46	3-2	6.50 A ₂	1-2-1	light clouds in SE at 22:30
3 57	2 22 W	56 38	3	9.0	1-2-1	clouds more general at 24:30, image faint a large part of time. clouds thicker.
						closed dome
						Plate box in dark room drawer
						MC SC 6SW ST MT _m _a
						Aug 16 10 -1 15.5 +54.7 -6.8 -0.1 -1.5

Date *Friday August 16-17, 1940* H-Bs Julian Day *98.8*

[illegible]

Pointer 18.9

[illegible]

Date Sat Aug 17-18, 1940 14d-B Julian Day.....

[illegible]

Date Monday Aug 19-20 1940 B Julian Day 9861

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
6056	H.D. 196821	20 34.7	21 28	I-12 1/2	Qte II	.010	+19.2	23 46	00 14	1	3
6057	200407	20 58.2	13 47	"	"	"	+19.0	00 19	01 15	2	51
6058	216716	22 50.0	30 56	"	"	"	+19.0	01 20	02 52	1	17 W 3
6059	3264	00 30.7	48 11	"	"	"	+19.0	02 59	(03 25)	1	19
	Focus Test			Outside	thru base						

Pointer at 13.9

Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS	
1 ¹³ W	21 37	1	5.94	A ₀ 1-2-1	B.S. Ad	Cloudy earlier
1 ⁵¹ W	43 56	1	6.78	A ₂ 1-2-1	K.S.A. 40 Y	
1 ³⁷ W	31 10	1	7.41	A ₀ 1-2-1	" 67 M	
1 ⁰²⁹	48 14	1	7.42	A ₀ 1-3	" 20 M	Light Clouds. Image
				9-12	gone by 3 ²⁵ . - Thick later, closed up 4 ¹⁰ .	
					MC	SC
					GSW	ST
					Aug. 20	10
					-1.23°	+0.2°
					-26°	-0.2
						-0.5

Ending Time EST.	Hour Angle End	Declination	Seeing	Ptg. Mag.		Pointer 13.3	REMARKS
5 20 45	⁺⁰ — ?	06 20	1	6.98	K0	1-2-1	BSC
9 22 09	W 35 ^m	13 00	1	7.7	B(s)ne	1-2-1	
4 23 33	W 1 ^h 01	16 55	1-2	6.89	A2	1-2-1	Took brighter S, following of fairly close pair.
2 00 12	W 1 ^h 27	42 46	2	7.06	A0	1-2-1	Trouble with RA. setting - fixed
5 11 21	W 31 ^m	44 42	2	7.26	A5	1-2-1	
5 03 12	W 1 05 ^m	61 51	2	8.2	B3e	1-2-1	* Look brighter than 8.2
1 10 53	W 2 ^h 25	55 14	2	7.6	B1e	1-2-1	
							Aug 21 10 Mc -1^m 25 SC -03^s G SW -26^s MT ST -04^s -0^m 2

Date _____

1940

Aug. 21-22.

Wednesday

B₅

Julian Day

9863

[illegible]

Pointer at 14.5

[illegible]

Date Thursday Aug 22-23, 1940-M Julian Day 9864

[illegible]

Date Friday Aug 23-24, 1940 Hd Julian Day 9865

[illegible]

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		pointen 12.0	REMARKS
20 26	W 01 ^m	18 05	1	5.99	A0	1-2-1	
2 53	W 55 ^m	-10 19	1	8.1	Bse	1-1-1	
00 12	W 22 ^h	5 50	1	8.5	Bsne	1-1-1	
02 43	W 234	18 11	1	7.47	A0	1-3	* clouds 00.40. Still cloudy 02.50 Cloud
							Aug 24 ^d 10 ^h MC SC GSW MT ST ^h -1.29 -17 -27 -01 -0.1

Date _____

24-25

1940

M-B

Julian Day

9866

Plate No.

Object

R.A.
1900Declination
1900 '

Instrument

Emulsion

Slit

Temperature

Starting Time
E.S.T.

Ending Time
E.S.T.

Hour Angle
End

D

- 6084

B.D. 56⁰ 2640

21 43.1

+56 28

I-12

Astr. II

024

$$\begin{array}{r} B \\ + 16.3 \\ \hline \end{array}$$

22
XQ 44

01 4-6

4

-5

55

- 6.85

463° 0110

00:48.6

 $+63 \cdot 33$

—

100

— *Chlorophyll *a** content

416.3

01 46

04 40

1

15

46

Date _____

1940

August 25-26 Sunday

85

Julian Day

9867

[illegible]

Quite Cloudy earlier; began to clear at 0^h

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		Pointer at 11.7	REMARKS
47 02	+0 ¹⁸	+06°37	1	5.66	A0	1-2-1	BSC (Hd) star gone 2 ¹⁹ -2 ³³
	+0 ¹⁰	+37°24	1	5.70	B8	1-2-1	- (H)
	+0 ⁴²	+43°45	1+	6.54	B9	2-1-1	KSA 21 (M)
	+0 ²¹	+14°46	2-	6.49	F5	1-2-1	- 70 (Y)
						10-12	
just before 23.00 hrs. but thick haze soon cleared in again still thick at 2.00 hrs. Aug 27 10							
						MC	SC GSW MT ST
						-1:33	-31 -24 +02 -0.1

Date Tuesday Aug 27-28, 1940 Hel Julian Day.....

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.
6090	HD 179648	19 08.3	21 23	1-12	astral	510		21 16	2
		1940 Aug 29-30	Thurs	Bs		Cloudy			
		Saturday. Aug 31 - Sept 1, 1940				M-L			
						M - demonstrated telescope.			
						sky fairly clear at 11.00 started over to open up but clouds forming overhead, waited till 12.00 sky thick again. Remained mostly thick with broken places where brighter stars showed through. Left at 2.00 sky mostly thick.			

mostly cloudy till 20.50
then fairly clear

Ending Time
R.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
			590 159.12	Thick 21.25
				Aug 28 10 MC SC GSW MT ST -1:35 -35 -28 +03 -0.2
				29 10 -1:35 -40 -30 +04 0.0
				30 10 -1:37 -46 -33 +04 -0.1
				31 10 -1:39 -51 -32 +06 0.0

About 15 visitors
cloudy -

Date _____

1940

Sent 1-2

Sunday

3.

Julian Day

9874

[illegible]

Partly Cloudy earlier

Pointer at 16.3

Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
+0 ²³	+27°50	0	6.64 B8 ^{F8p}	1-2-1	KSA 63 (M) Cloudy in south. Taken in air - on p. 10
+0 ³¹	+28°17	0-1	6.24 B8	1-2-1	" 64 (H)
+0 ³⁵	+44°58	2	6.62 A0	1-2-1	" 40 (H)
+1 ⁴⁶	+42°43	1-2	7.21 B8	1-2-1	" 40 (M)
+1 ⁴⁹	+33°05	1	6.95 A3	1-2-1	" 66 (Hd)
	+30°26	1	7.52 A2	1	" 67 (Hd) Star soon lost. haze, so plate-holder left loaded.
					Haze persisted till dawn, as well as heavy ground fog; very moist.
rain in afternoon. Clear for short time at 20.00 hrs. but heavy at intervals through night. Remained thick, clearing at dawn.					
M.C. SC GSW MT ST Jus. Sept 3, -1 43-104 -30 +13 +0.1					

Printer set at 16.8

Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp.	REMARKS
0 30 W	63 06	1-2	7.33	F ₅	1-2-1 KSA. 17 H
1 27 W	60 24	2	6.70	A ₂	1-2-1 " " H Sta looks faint!
1 30 W	59 11	2	7.30	A ₀	1-2-1 " 18 H
0 04 W	63 24	2	6.91	A ₂	1-2-1 " 19 H
1 23 W	62 58	2-3	7.54	A ₀	1-2-1 " " Hd.
1 31 W	63 24	3	7.5	B ₂	1-2-1 " 8 M
0 59 W	57 28	2-1	7.35	B ₂	1-2-1 " 9 M Seeing from unitary
					MC SC GSW MT ST Sep 4 10 -145 -108 -33 +14 +0.1

Date Wed. Sept. 4-5, 1940 B

Julian Day.

[illegible]

Pointer at 178

Ending Time R.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
20 ⁴	0 27 E	17 38	1-2	6.84 A ₀	1-2-1 H.S.A. 87 M Thin haze
21 ¹	0 50 E	48 03	2	7.23 A ₅	1-2-1 " 40 Y
22 ²	0 34 W	47 49	2	7.50 A ₀	1-2-1 " 40 Y
23 ²	2 00 W	47 56	2	7.50 A ₀	1-2-1 " 40 Hd
24 ²	2 35 W	63 45	2	9-	1/2-1-1/2 M Cloudy from 130-320. Ended exposure because spectrograph nearly touching S. pin.
Sept 5 10 MC -1:46 SC -1:14 GSW -32 MT +14 ST +0.1					

Date Thursday Sep 5-6, 1940 B Julian Day[illegible]

Printers at 15.6

Ending Time L.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS	
2 37	1 17 W	27 06	1-2	7.22	A ₂	1-2-1	K.S.A. 62 M
2	0 35 W	57 54	1-2	6.4	B ₈	1-2-1	" 17 M
4	1 45 W	59 16	1-2	7.22	G ₀	1-2-1	" " H
5	2 02 W	59 40	1-2	7.52	A ₀	1-2-1	" 18 Y
3	2 24 W	61 21	2	7.19	A ₂	1-2-1	" " Y
6	1 06 W	48 13	1-2	7.42	A ₀	1-2-1	" 20 M
2	0 17 E	60 18	2	6.82	A ₅	1-2-1	" 9 Y
1	0 58 W	60 13	2	7.44	A ₃	1-2-1	" " Y
							MC SC GSW MT ST
							Sept 6 10 -1:47 -1:19 -30 +13 +0.1
							Sept 7 10 -1:48 -1:23 -33 +13 +0.1

Date _____

M-Bs

Julian Day

Plate No.

Object

R.A.
1900

Declination
1900

Instrument

Emulsion

Slit

Temperature

Starting Time
E.S.T.

Ending Time
E.S.T.

-6115

BD 63⁰ 0110

0 48.6

+63 33

I-12

Actra II

.024L

$$\begin{array}{r} B \\ + 19.3 \\ \hline \end{array}$$

21 54

23 20

1

1940 Sept 8-9

Sunday

25

Cloudy, showers

1940

Monday

Let

9-10

light rain

and clouds

4

Ending Time
E.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS																																			
				About 40 visitors. M showed M 13, B Cyg, M 57 with 74", Bs showed @ with 4" Pointer at 14:03																																			
	+63 46	1	9.1	1/2-1/2 Cloudy at 22:50 remained thick with some thunder and lightning. Closed dome at 23:30. Put blower on. Plate box in dome																																			
night				<table><tr><th></th><th></th><th>MC</th><th>SC</th><th>SW</th><th>MT_s</th><th>ST_n</th></tr><tr><td>Sep. 9</td><td>10</td><td>-1 50.8</td><td>-1 31.4</td><td>-19.1</td><td>+120</td><td>+0.1</td></tr><tr><td></td><td></td><td>took off wt 3.0</td><td>took off wt 0.7</td><td>Reset</td><td></td><td></td></tr><tr><td>Sep 10</td><td>10</td><td>-1 51.3</td><td>-1 28.5</td><td>G.S.W +19.0</td><td>+11.1</td><td>+0.1</td></tr><tr><td></td><td></td><td></td><td></td><td>Reset</td><td></td><td></td></tr></table>			MC	SC	SW	MT _s	ST _n	Sep. 9	10	-1 50.8	-1 31.4	-19.1	+120	+0.1			took off wt 3.0	took off wt 0.7	Reset			Sep 10	10	-1 51.3	-1 28.5	G.S.W +19.0	+11.1	+0.1					Reset		
		MC	SC	SW	MT _s	ST _n																																	
Sep. 9	10	-1 50.8	-1 31.4	-19.1	+120	+0.1																																	
		took off wt 3.0	took off wt 0.7	Reset																																			
Sep 10	10	-1 51.3	-1 28.5	G.S.W +19.0	+11.1	+0.1																																	
				Reset																																			

23 W /

dark night.

Date Tuesday Sep 10-11 1940 B Julian Day

[illegible]

Pointer at 10.8

		MC	SC	GSW	MT	ST
Sep. 11	10	-1 41.9	-1 22.7	+17.5	+11 ³ .3	+00 ^m

Date Wednesday Sep. 11-12 1940 Julian Day

[illegible]

Pointer of 9.4

Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS																															
1 ¹¹ W	33 02	1-2	6.91	A ₂	1-2-1	Cloudy earlier K.S. A 63 Y Few light clouds																														
0 ⁵⁷ W	47 53	Variable 1-2	7.42	G ₅	1-2-1	" 43 H																														
1 ⁴⁷ W	18 13	1-2	7.47	A ₀	1-2-1	" 89 Hd																														
(2 ¹⁷ W)	63 45	1-2	9.1	-	1/2-1-1/2	M Sky cloudy by 100. Sun intermittently visible later. Thick at 100. Clouds up																														
<table><tr><td></td><td></td><td>MC</td><td></td><td>SC</td><td></td><td>GSW</td><td></td><td>MT</td><td>ST</td></tr><tr><td>Sep. 12</td><td>10</td><td>-1</td><td>52.3</td><td>-1</td><td>36.2</td><td>+17.5</td><td></td><td>+12.1^s</td><td>+0.1^m</td></tr><tr><td>Sep. 13</td><td>10</td><td>-1</td><td>52.5</td><td>-1</td><td>39.8</td><td>+17.1</td><td></td><td>+13.2^s</td><td>+0.1^m</td></tr></table>									MC		SC		GSW		MT	ST	Sep. 12	10	-1	52.3	-1	36.2	+17.5		+12.1 ^s	+0.1 ^m	Sep. 13	10	-1	52.5	-1	39.8	+17.1		+13.2 ^s	+0.1 ^m
		MC		SC		GSW		MT	ST																											
Sep. 12	10	-1	52.3	-1	36.2	+17.5		+12.1 ^s	+0.1 ^m																											
Sep. 13	10	-1	52.5	-1	39.8	+17.1		+13.2 ^s	+0.1 ^m																											

Date Friday September 13-14/40 L Julian Day 174

Date Friday September 13-14/40 L Julian Day 174

[illegible]

Pointer set at

Ending Time L.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp	REMARKS
2 33	1 31 W	45 51	2	6.80 B ₀	1-2-1	K.S.A. 38 H ₁ Light clouds
2		44 08	2	6.62 B₀	1	K.S.A. 40 M Wayer. clouds, thicker, hopeles.
						Wasted until midnight. sky still hopeless
						* Sidereal time read directly from the telescope.
						Starting delayed by uncertain sky. Found Stromgren stopped, could it be that someone forgot to wind it? While setting on first star, it decided to play hide and seek behind some clouds, more delay

Date Julian Day

[illegible]

Reading Time
E.S.T.

Hour Angle
End

Declination

Seeing

Ptg. Mag.

REMARKS

rain with thunder showers
all evening
telescope

		HC	SC	QSW	MT _s	ST _m
Sep. 14	10	-152.9	-143.1	+16.1	+16.4	+0.2
Sep. 16	10	-154.4	-150.4	+11.2	+13.2	+0.2
Reset +00.2						

Date Monday Sept 16-17 1940, M-L Julian Day

[illegible]

Pointer at 13.78.

Ending Time EST.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS	
21 23	0 33W	33 45	2-1	8.89	A	$\frac{1}{2} + \frac{1}{2}$
22 34	0 49W	+02 22	2	9.0	G5	$\frac{1}{2} - 1 - \frac{1}{2}$
23 4	2 16W	+63 45	2	9.09	-	$\frac{1}{2} - 1 - \frac{1}{2}$
24 5	1 38W	+62 46	2	7.37	B ₈	1-2-1
Sep. 17 10 ML SC GSW MT_s ST_m +05.8 -150.7 +12.8 +18.5 +0.2						

Date 1940 Sept 17-18 Tuesday

Bs-L Julian Day 9890

[illegible]

Start: 1 clock - L
Pointer at 15.8

Pointer at 15.8

Ending Time L.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS	
1 ^h	-0 ^m 15	+36° 51	0	5.84 B9	1-2-1	Bsc (H) } all these looked too faint
2 ^h	+0 ^m 13	+32° 14	1	5.95 A2	1-2-1	" (Y) } dye used for backing of plates very sticky
	-0 ^m 10	+21° 37	0-1	5.94 A0	1-2-1	" (Hd)
3 ^h	+0 ^m 06	+09° 46	1	6.05 A2	1-2-1	" " } Took wrong * & then reset
4 ^h	+0 ^m 06	+05° 30	1-2	6.08 F0	1-2-1	" (H) Found sidereal circle 10 ^m fast while setting on this *
5 ^h	+0 ^m 07	+11° 20	2	7.10 K5	1-2-1	" (Hd)
6 ^h	+0 ^m 31	+02° 41	3	6.96 K0	1-2-1	" (Y)
7 ^h	0 ^m 22 E	+43 10	2	6.43 A0	1-2-1	KS A20 (Y)
8 ^h	0 ^m 09 W	+57 30	2-3	6.80 A2	1-2-1	" 8 M
9 ^h	1 ^m 45 E	+60 02	3-4-5	6.43 B8	1-2-1	" 9 (M) Took brighter
10 ^h	1 ^m 18 E	+59 08	5-6	6.06 A0	1-2-1	" 9 (M) Image hidden by slit
11 ^h	0 ^m 53 E	+58 33	5	6.33 A2	1-2-1	" 9 (Hd) seeing separate stars & double
12 ^h	0 ^m 10 E	+12 25	3	7.00 G5	1-2-1	" 71 (Y)
13 ^h	0 ^m 28 W	+16 33	3-4	7.02 A0p	1-2-1	" 71 (M)
14 ^h	1 ^m 22 W	+27 32	3	7.12 B0	1-2-1	" A7 (Hd) S. preceding
15 ^h						clouds coming from NW, then mostly cloudy, then thick.

Date _____

1940 Sept 20-21 Friday.

B5

Julian Day

989-

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

Printer at 18.2 Cloudy earlier

Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
				MC S.C. GSW MT 3T _m
				Sep. 18 10 +04.5 -1 52.0 +10.8 +16.5 +0.2
				19 10 +04.4 -1 53.1 +11.3 +16.4 +0.2
				20 2 +04.0 -1 54 +13.2 +15.5 +0.1
+236	+60°25	1+	6.70 ⁽⁷⁾	A2 1-2 -1 Scattered clouds + lightning KSA 17(H) fainter than 6.70 (cf plate 6096) Sky thick at middle of exposure. 20 ¹⁷ -20 ⁵⁷
				Cloudy at 23 ⁰⁰ - closed
				rather clear at midnight, but more clouds later. 3
				Sep. 21 10 +04.0 -1 55 +11.3 +14.0 +0.1

1. Makes of clear but very hazy sky.

Date 1940 Sept 21-22 Sat. Hd-B5 Julian Day.

9894

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature B	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
- 6146	MWC 383 HD 209296	21 57.2	56 14	I-12	Antira II	.015	20.7	22 28	23 58	2
- 6147 (5)	MWC 402 HD 223,501	23:45.0	+61° 39	—	—	—	+20° 7	00 06	01 36	3
- 6148	MWC 23 HD 12,302	01:55.6	+59° 12	—	—	—	+20° 7	01 43	03 13	4
- 6149	MWC 63 HD 20,017	03:07.9	+48° 19	—	—	—	+20° 8	03 23	04 43	1
6150 (3)	44,497	06:17.0	+12° 37	—	—	.010	+20° 8	04 53	05 29	2
(7)	Focus test	outside 'Kra' base								

Date Sunday, Sept 22-23, 1940^{B-L} Julian Day

[illegible]

Pointer at 16.1

[illegible]

Date Monday, Sept. 23-24, 1940, M-L Julian Day.....

[illegible]

Clouds after sunset. Started to open several times but each time clouds came up.

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
22.30	E-26E	63 45	1	9.1	1/2 1/2 Pointer at 15.96 clouds and haze from 21.50 on., thick at 22.30
					closed dome at
					22.40.
					MC SC GSW MT ST^m
					Sep. 24 13 +02.9 -1 58.8 +07.8 +10.2 +0.1
					25 10 +04.4 +05.1 +07.8 +09.7 +0.0
					Rent
22.30					26 10 +04.7 +04.5 +21.8 +10.2 +0.0

22.30 Clear previously.

Date *Thursday Sep. 26-27, 1940* B-B₅ Julian Day *9899*

[illegible]

Painter at 8.2

Ending Time L.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
0° 2'	1 ¹² W	47 31	1	6.95 A ₂	1-2-1	KSA. 38 H
0° 4'	1 ⁵⁴ W	60 25	1	6.70 A ₂	1-2-1	" 17 H mag. 7.3-4?
0° 30'	2 ⁵⁴ W	57 54	1	6.81 F ₈	1-2-1	" 17 H Extremely brilliant <u>spectral</u> .
0° 2'	+2' 9"	61 19	1	7.19 A ₂	1-2-1	" 18 Y display 21"-32"
0° 45'	+1 ¹²	+59° 35'	1-2	7.43 A ₃	1-2-1	" 8 (H)
0° 2'	+0 ⁴⁹	+63° 09'	1-2	7.50 G ₀	1-2-1	- 9 (H)
0° 3'	+1 ¹⁰	+57° 40'	1-2	6.83 F ₅	1-2-1	- 9 (H)
0° 1'	+0 ²⁷	+62° 34'	2-5	6.95 K ₂	1-2-1	- 10 (H)
					9-12	
						Sep. 27 13 MC SC GSW MTW STW +02.9 +03.5 +06.8 +09.8 +0.0

Date Friday, Sept 27-28, 1940, M-B Julian Day

[illegible]

Ending Time
L.S.T.

Hour Angle
End

Declination

Seeing

Ptg. Mag.

Pointer at 10.1 REMARKS

21 01

0 53W 33 46 2 8.6 A $\frac{1}{2}$ -1- $\frac{1}{2}$

90 12 2

0 29E 63 45 2 9.1 $\frac{1}{2}$ -1- $\frac{1}{2}$

Considerably auroral activity in N developed between 22.30 and 23.00 - last of central stream.

51 23 3

1 00W 48 14 2-3 7.42 A₀ 1-2-1

11

0 23E 29 26 3 7.17 B₉ 1-2-1

11

0 30W 41 13 2-3 8.9 A₀ $\frac{1}{2}$ -1- $\frac{1}{2}$

Binary

Sep 28 10

MC	SC	GSW	MT	ST
+03	+02	+05	+10	0.0

7 30 11

ions N showed slight
had " telescope

1

Date 1940 Sept 28-29 Sat Hd-Bs Julian Day 9901

[illegible]

Date Sunday, Sep 29-30/1940 B-1 Julian Day

[illegible]

Date Monday Sept 30-Oct 1, 1940 14 - L Julian Day

[illegible]

Date 1940 October 1-2 Tuesday, Bs-L Julian Day 9904

[illegible]

Pointer at 11.2

[illegible]

Date Wednesday, Oct 2-3, 1940, M-L Julian Day.

[illegible]

Printer at 12.08.

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS										
19 55	0 35 W	-14 45	2	6.50	A 2 1/2-1-1/2	very thin clouds over southern half of sky.										
23 12	3 09 W	+27 10	2-1	9.46	- 1/2-1-1/2	quite hazy at first, better towards end of exposure.										
23 13	0 15 W	48 13	3	7.42	A 0. 1-2-1	Hazy										
23 14	0 04 W	43 44	2-3	6.54	B 9 1-2-1											
23 15	0 24 E	29 26	2-3	7.17	B 9 1-2-1	Sky clouding over quickly from 01 40 to 01 50										
						Sky remained thick, closed at. 2.45										
						<table><tr><td>MC</td><td>SC</td><td>GSW</td><td>MT</td><td>ST</td></tr><tr><td>Oct 3 10 +05</td><td>-05</td><td>+06</td><td>+17</td><td>+0.0</td></tr></table>	MC	SC	GSW	MT	ST	Oct 3 10 +05	-05	+06	+17	+0.0
MC	SC	GSW	MT	ST												
Oct 3 10 +05	-05	+06	+17	+0.0												

Date 1940 Oct. 3-4 Thurs Bs-B Julian Day 9906

[illegible]

Pointer at 12.1

Strong N. wind at sunset

Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
+0 ²⁴	+16°57	1	6.89 A2	1-2-1	KSA 88 (Hd) Haze
+0 ⁴⁶	+44°59	1-2	6.62 A0	1-2-1	- 40 (H)
-0 ¹⁵	+44°58	2	6.14 A2	1-2-1	- 41 (H)
+0 ²⁴	+47°37	2	7.50 A0	1-2-1	- 42 (H) Aurora
+0 ⁵⁶	+57°30	2-3	7.22 A0	1-2-1	- 19 (H) Mist
1 ⁰⁵ W	+59°14	2-3	7.27 G5	1-2-1	- 8 (H)
0 ⁴⁶ W	+48°00	2	7.34 G5	1-2-1	" 22 H
2 ¹⁰ W	+42°20	2	7.43 F5	1-2-1	" 22 H Hazy
0 ⁵⁵ W	+63°03	2-3	7.02 F0	1-2-1	" 10 H
					MC SC GSW MT_s ST_m Oct 4 10 +05.1 -05.6 +04.6 +17.4 +0.1 wt 2.0

Date Wed Oct 4-5, 1940 Hel-B Julian Day.

Date Wed Oct 4-5, 1940 Hel-B Julian Day.

[illegible]

Pointer where ??

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
19 34	W 29 ^m	21 26	1	5.90 A0	1-2-1 B.S.C
21 39	W 2 ^h 33	5 50	1	8.5 B5ne	1-1-1
23 52	W 1 ^h 01	30 26	1	7.52 A2	1-2-1
00 03	00 ^h E	65 40	2	7.1 B5ne	1-2-1
00 54	1 09 W	63 02	2	7.5 B5ne	1-2-1
01 01	2 47 W	54 14	1-2	8.6 B5ne	1-1-1
01 05	2 05 W	41 57	1-2	7.6 B3ne	1-1-1
Can't check field, yet A.A. Dec, and clock check, say, mag.					
Det 5 10^h MC SC GSW ST MT +05 -08 +06 +0.1 +18					

Date Saturday, Oct 5-6, 1940, M-Bs Julian Day 9908

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
-6214	BD +63° 0110	0 48 6	+63 33	I-12	astra II	022 _L	B. +15°	21 44 ₁₂	23 50	3 19 E
Sunday, Oct. 6-7 B-1 Cloudy with rain.										

Hazy at first - clearer later

About 100 insects

M showed M2, P Cygni with 74 inch.

N showed M31, Jupiter, Saturn, Moon with 4-inch.

REMARKS

Pointer at 10.80

hazy near horizon at first, haze increasing. Image almost lost at end.

Thickened up after 0h

	MC	SC	GSW	MT _s	ST _m
Oct 7 10	+05.1	-09.4	+03.0	+19.0	+0.2

Ending Time
E.S.T.

Hour Angle
End

Declination

Seeing

Ptg. Mag.

23 50 3

0 19 E 63 44

3

9.1

-

1/2-1-1/2

Date Monday, Oct. 7-8, 1940, M-L Julian Day.....

[illegible]

Clouds at sunset and for short time after

Ending Time
E.S.T.

Hour Angle
End

Declination

Seeing

Ptg. Mag.

REMARKS

~~27 11 1 8.8 - 1/2~~

Clouded up thick shortly after
exposure started. Cloud dome.
Occasional clear spells interspersed
by heavy showers of rain. Bright auroral
glow seen in north through clouds.
Heavy bank of cloud coming up in NW at

23 hrs

	MC	SC	GSW	MT	ST
Oct. 8	+4.5	-9.6	+5.2	+18.0	0.0

Date 1940 Oct 8-9 Tuesday BS-L Julian Day 9911

[illegible]

Printer at 9.2

[illegible]

Date Thurs. Oct 10-11, 1940 B-B₅ Julian Day 9912³

[illegible]

Pointer at 9.3 8.4

Ending Time L.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
10 ¹⁵	0 50W	30 54	1-2	6.48 A ₀	1-2-1	KSA. 63
10 ²⁰	2 05W	47 46	2	7.59 M _a	1-2-1	" 39
10 ²⁵	2 07W	62 43	1-2	7.00 A ₀	1-2-1	" 18 Light clouds
10 ³⁰	1 16W	44 25	2	7.18 F ₀	1-2-1	" 43 " "
10 ³⁵	+2 43	+59° 34	2-3	7.43 A ₃	1-2-1	" 8 Fog + " ; Losing 1 to 2 mags.
						Quite hazy still at 3 ^h , so closed
						MC SC SW MT ST_m
						Oct. 11 13 +04.5 -16.5 +12.7 <u>+21.2 +0.1</u>

Date Friday, Oct 11-12, 1940, M-B 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
6232	H.D. 8862	1 22.3	43 32	I-12	Astra II	010L	+13.5	23 50	(00 30)	3
Sat Oct 12-13 Hd-N Cloudy, About 20 visitors, Showed Telescope										

Ending Time
E.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
(0" W)	43 45	3	6.54	B9	1-2-1
					Cloudy for first part of night. Cleared briefly at 21 ^h , clouded again, cleared at 23 ^h , started to open, clouds from W, cleared again at 23.30 Cloudy by 0 ¹⁵ Star lost at 0 ³⁰ Closed up at 00 Oct. 12 10 MC SC SW MT ST +04 -19 +14 +22 +0.2
					Cloudy all night
					Found S of O stopped - had been wound too tightly

Date Sunday Oct 13-14 1940 B-L Julian Day

[illegible]

Pointer at 11.4

[illegible]

80-L

[illegible]

closed at 5³⁰ still thick.

	MC	SC	SW
Oct. 17 10	+05	-29	+18

Date 1940 October 17-18 Thursday Ps-B Julian Day 99²⁰49

[illegible]

Pointer at ~~26.55~~ 27.1

Reading Time L.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
4	-0 ⁰⁵	+47°52	3-4	7.42 G5 1-2-1	KsA 40
20	+0 ¹⁴	+57°21	3	7.50 F5 1-2-1	- 18 { Delay in setting: (1) clouds rolling over; (2) tel. running away to south while unclamped. Wind or/and gravity?
38	+1 ⁴¹	+57°51	3	7.56 F8 1-2-1	- 18 { Ran up lower curtain to cut down wind, as image was jumping around. S-prec brighter
12	+2 ⁰⁰	+32°45	2	6.88 F5 1-2-1	- 66 Thick clouds at end
					MC SC EDW SW
					Oct. 18 10 +05 -32 -3 ^m 15 ^s +18
					(note adjusted)
					16 -3 22

Date 1940 Oct 18-19, Friday 461-BJulian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.
- 6260	HD 188209	19 49.0	46 47	T-12	Astra VIII	0/0	+5.0	18 22	19 52 3
6261	HD 214946	22 36.7	44 29	"	Astra II	0/0	5.3	20 00	21 00 4
6262	HD 214588	22 34.2	44 29	"	"	"	5.4	21 03	22 03 1
6263	HD 223057	23 41.2	62 45	"	"	"	5.6	22 09	23 49 2
- 6264	HD 6811	01 03.7	46 42	"	" VIII	"	5.6	23 56	00 26 1
- 6265	22780	03 34.6	37 16	"	Astra II	"	5.8	00 34	00 52 4
- 6266	23552	03 41.0	50 26	"	"	"	5.8	00 58	01 26 3
6267	24701	03 50.5	43 02	"	"	"	5.8	01 33	02 59
6268	36425	05 26.5	31 48	"	"	"	5.8	03 05	04 55 2
	Focus Test Outside the box.				Focus 26.16		2.11	20.32	9-12
	Saturday Oct 19-20, 1940,				M-N				

Ending Time L.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS								
19 52	W 1 ^h 33	46 54	1	5.27 B ₀ 5-5-5	new Program. Be careful. photo 3" with no filter								
21 04	29 ^m	44 44	2	7.26 A ₅ 2-1-1 KSA	/ RA clamping dead.								
22 03	W 56 ^m	44 22	1	7.01 A ₀ 1-2-1 KSA									
23 49	W 1 ^h 36	62 58	1	7.54 A ₀ 1-2-1 KSA									
01 00	50 W	46 56	1	4.23 B ₈ 5-5-5	new prog.								
01 04	1 ^h 15 E	37 24	1-2	5.45 B ₅ 1-2-1	" "								
01 08	04 ^h E	50 34	1-2	5.87 B ₈ 1-2-1	" "								
01 11	03 ^h W	43 07	1-2	7.20 A ₀ 1-2-1 KSA 23									
01 15		31 50	1-2	7.32 A ₂ 1-2-1	" 49 Cloudy								
01 15					Thick by 500								
					<table><tr><td>MC</td><td>SC</td><td>EDW</td><td>SW</td></tr><tr><td>+06</td><td>-34</td><td>-2:37</td><td>+24</td></tr></table>	MC	SC	EDW	SW	+06	-34	-2:37	+24
MC	SC	EDW	SW										
+06	-34	-2:37	+24										
					Oct. 19 10								
					about 65 visitors, M shaved B Agni with 74"								
					N " Jupiter and Saturn with 4"								
					Clouded up at 21 ^h . Refocused telescope and								
					closed dome cleared but for								
					R.A. clamp not acting very well. also there.								

Ending Time
P.M.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Pointer at 22.78	REMARKS
Changed focus from 26.15 to 26.20.				Oct. 21	MC SC D.S.T. SW. +06.7 -37.6 -2 ^m 18 ^s +26.9
26.25	line outside			$\frac{12}{9}$	focus O. K.
45 W 27	10	2-0	8.8	$\frac{1}{2}-1-\frac{1}{2}$	
+2 ²³	63 45	2	9.1	$\frac{1}{2}-1-\frac{1}{2}$	solid clouds 16-56; 120- Lin H.A. +25.6
spectrograph with tel. pointing to zenith.				Bright (pale green) aurora seen thru rifts had to stop driving clock & unclamp by hand. RA clamps but won't unclamp.	
to platform; covered mirrors.				Plate 6270 - NB Forgot to switch on motor for strips until plate had had 90 ^s exposure to lamp spectrum, so immediately stopped exposure, hoping to avoid fogging whole plate. Scale had 60 ^s .	
				Metronome quite unreliable for counting seconds - skips & stops.	
Comet Cunningham with 4" - Had.					
				Oct. 22	MC SC (S.T.W.) Sid.W. 14 +07.7 -39.9 (+0.2) +32.3
				23 21 ¹⁶	+08.1 -44 Reset +21.6 +39
				24 10	+08 -46 +23 +34

Date Thursday, Oct 24-25, 1940 B-L Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
6271	HD. 204211	21 22.0	62 34	I-12 1/4	Astra II	.010	10.9	20 36	21 42	1
6272	222143	23 33.0	45 39	"	"	"	10.6	21 48	23 12	2
6273	743	00 06.7	47 36	"	"	"	10.5	23 22	00 22	3
6274	11884	01 51.7	46 36	"	"	"	10.7	00 27	01 41	1
6275	27777	04 18.0	33 54	"	"	"	10.7	01 51	02 11	2
6276	30453	04 42.8	32 25	"	"	"	10.7	02 15	"	3

Friday - Oct 25 - 1940

Screws tightened on spectrograph. N side screws 4/6 turn up and

S " " 3/6 "

Top and Bottom " 2/6 "

6275 T.

Setting 1 1/2 Telescope 60° N - 2 1/2 E
5 " 60° N 2 1/2 E
8 1/2 " 50° N 2 1/2 E
2 1/2 W

Printer at 28.8

[illegible]

1940

[illegible]

Ending Time
E.S.T.

[illegible]

9 9 2 9

[illegible]

About 150 minutes. Showed M2 and Comet Cunningham
with 74". (Comet C. was very good - easily seen & appreciably different
compared with stars - viz. few seconds of arc).
U showed Jup, Sat, Comet C with 4".

[illegible]

12 321

90 102

Date Sunday, Oct 27²⁸, 1940 B-L Julian Day

[illegible]

[illegible]

Date 1940 Nov. 0-1 Thursday, Bs. B. Julian Day 9934

[illegible]

Date Sunday, Nov. 3-4 1940, B-1 Julian Day

Silence Time

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
6301	H.D. 175443	18 50.3	27 47	I-12	Astro II	.010	+9.8	20 19	21 5	1
6302	190405	19 59.7	17 26	"	"	"	+9.8	21 31	22 51	2
6303	202313	21 09.9	30 33	"	"	"	+10.5	22 55	00 51	3
6304	8710	01 20.8	43 11	"	"	"	+10.5	00 56	02 50	4
6305	20193	03 09.6	32 29	"	"	"	+10.5	02 55	03 39	1
6306	28447	04 24.1	27 55	"	"	"	+10.5	03 43	04 57	3
6307	34384	05 11.9	28 41	"	"	"		05 00	06 26	4
Monday - Nov 4-5, 1940, M.										
Heavy cloud all evening.										
		Nov 5-6	Tues	Rain (Y-L)						
1940		Nov 6-7	Wed	Rs-L	cloudy	to 23h.				
		Nov 7-8	Thurs	Snow + NW wind	(Bs-B)					

Pointer at 29.1

[illegible]

Date Friday Nov 8-9, 1940, M-Bs Julian Day 9942
Sid. T.

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature <i>B</i>	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
- 6308	BD 630110	0 48.6	+63 33	5-12	Astra II	.020 ₂	+0.6	0 22	3 20	1
	BE Aur									
- 6309	HD 32419	04.58.0	+41° 09	-	-	-	+0.5	3 45	7 15	2
6310	51,418	06:52.2	+42° 26	-	-	.010	+0.6	7 22	8 04	3
6311	74,292	08:38.1	+32° 26	-	-	-	+0.5	8 08	9 08	4
	Focus test	outside thro'	^{vertex} base	inside thro' whole prism						
				(something wrong with the focus test but not with the prism) P.M.						
				Monday Nov 11-12, 1940 M						
				clouds and high wind -						

Date Nov 12-13 / 40 Y-L Julian Day _____

[illegible]

Ending Time
E.S.T.Hour Angle
End

Declination

Seeing

Ptg. Mag.

REMARKS

						MC	SC	SW	MT	ST
1 29 1	10 ^m W	34 18	0	6.68 K₀ ^{G₅}	1-2-1	Nov. 12 10	+19.6	-1 06.9	+02.6	-27.0 ³ +0.0 ^m
0 35 2	0 22 E	33 26	0	6.91 K ₀	1-2-1	B.S.C. Very windy in early evening				Reset $\frac{1}{2}$ turn
0 45 3	0 08 E	62 24	1	6.88 A ₅	1-2-1	K.S.A 10 clear but did not start 1.17 wind fell,				
0 50 4	0 26 W	61 55	1	6.79 A ₅	1-2-1	" 10				
0 55 1	0 17 W	57 38	1	7.20 K ₂	1-2-1	" 11				
0 58 2	1 19 W	61 52	1	7.53 G ₅	1-2-1	" 11				
0 59 3	0 22 W	54 32	1	5.74 A ₂	1-2-1	B.S.C.				
						Nov 13 10	+20	-1 ^m 08	-28	+0 ^m 3

Nov. 16

Date 1940 Nov 13-14 Wednesday B.S.-L Julian Day 9947

Julian Day

(unconverted) Observ. watch

[illegible]

As I forgot to wind it today, Observing watch stopped about 17⁰⁷ EST. Reset h SC
so that corr. to ST is now -0.2

Ending Time EST.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Pointer 23.0	REMARKS
9 ⁰¹ 4	+1 ¹¹	+63° 09	1-2	7.40 A5	1-2-1	KSA 18(H) Clouds filling up in S-E (from S-W)
20	+1 ⁴⁴	+61° 20	2	7.19 A2	1-2-1	— (Y) N-fall. brighter. Messy clouds in whole sky
3 ¹¹	+0 ²²	+59° 40	2	6.38 A0	1-2-1	- 19(Hd)
2 ¹¹	+0 ²⁶	+58° 02	2	7.23 A2	1-2-1	- 8(Hd) Messy sky again
4	+0 ⁵⁶	+57° 48	2	6.87 F5	1-2-1	— (H)
3	0 ⁴⁰ W	+60° 20	2	6.82 A5	1-2-1	- 9(Y)
0 ⁰⁷ 2	2 ¹⁰ W	62 47	2	7.37 B8	1-2-1	— (M) Light clouds
			2	7.46 A0	1-2-1	10(H) Clouded up shortly after start
0 ¹³ 4	1 ²⁵ W	60 40	2	6.86 A0	1-2-1	- 11(Hd) Light clouds more clouds
MC SC MT ST SW Nov 14 10 +21 -1 08 -1 10 +0.7 15 10 +22 -1 07 -1 12 +0.6 +10 16 10 +23.5 -1 06.3 -1 16.5 +0.6 +15.2 18 10 +25.5 -1 06.3 -1 17.5 -0.1 +22.6 Reset						
4 ¹¹ with	Observatory	Y lateral	M demonstrated	74-inches		

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

Julian Day

[illegible]

Time Ending Time
E. S.T.



