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2.

3.

Hour Angle
End

5.

Date Friday Sept 4-5 1942 Y-W 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
8230	HD 174569	18 46.0	10 52	25"	E1039-D	010	20.8	7 30	8 40	2-3
8231	HD 177199	18 58.6	19 31	"	"	"	20.7	8 44	9 20	2-5
8232	HD 182272	19 18.8	33 19	"	"	"	20.6	9 24	9 48	2-7
	Focus. 23.50 outside thru base									3-5
8233	HD 190658	20 00.9	15 13	25"	"	"	20.4	9 55	10 40	3-9
										1-3
										1-
	Focus lists 2850									
Holder 1	Dec 0° setting 2		Dec 40° setting 5					Dec 80° setting 8		
" 4	NA 2 ^h W Dec 40 setting 2		RA 0 ^h setting 5					RA 2 ^h setting 5		

focus set 23.50

Time T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp	REMARKS					
							MC	SC	SW	MT	ST	
0	28 W	10 53	0-1	770	K2	$\frac{1}{2}$ - $\frac{1}{2}$ - $\frac{1}{2}$	Sep. 4	-1 13.5	-2 19.9	-1 16.3	-03.8	-0.4 ^m
20	55 W	19 33	1-2	725	K0	$\frac{1}{2}$ - $\frac{1}{2}$ - $\frac{1}{2}$						
3	1 04 W	33 24	2	730	K0	$\frac{1}{2}$ - $\frac{1}{2}$ - $\frac{1}{2}$						
						5-6						
4	1 15 W	15 18	2-1	791	Ma	$\frac{1}{2}$ - $\frac{1}{2}$ - $\frac{1}{2}$	clouds 10 ²⁰ -10 ³⁰ - clouds again					
							Watched sky until 3:30 - still very uncertain -					
							light clouds moving in from N.W.					
							(Focus very good)					
							Sep. 8	-1 16.2	-01.7	-1 20.8	-05.4	-0.4 ^m
							9	-1 16.8	-03.2	-1 25.0	-05.8	-0.5
							10	-1 16.4	-04.3	-1 31.1	-06.2	-0.5
							11	-1 17.3	-04.8	-1 32.2	-07.8	-0.5

7.

Date Sat Sept 5-6, 1942

Y-L

Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
8234	HD 166411	18 05.4	30 26	25	E103a-0	010	+18.0	7 ^h 25 ^m	8 ^h 45 ^m	45
8235	" 175679	18 51.4	2 21	"	"	"	18.0	8 50	9 30	106W
8236	" 189322	19 54.8	1 07	"	"	"	18.0	9 25	9 55	39W
8237	" 191814	20 06.7	20 51	"	"	"	18.0	10 00	10 40	112W
8238	" 203886	21 19.9	24 06	"	"	"	18.0	10 45	11 34	50W
8239	" 208606	21 52.3	61 04	"	"	"	18.0	11 37	00 21	65W
8240	" 220074	23 15.8	61 26	"	"	"	17.8	00 26	01 30	40W
8241	" 222670	23 37.6	63 45	"	"	"	17.9	01 25	02 27	5
8242	" 6211	00 58.1	51 38	"	"	"	17.9	02 43	03 19	23
8243	" 11613	01 48.7	40 12	"	"	"	17.8	03 23	04 09	41
8244	" 18345	02 51.8	04 05	"	"	"	17.8	04 11	04 53	3

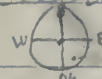
Time T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp.	REMARKS
	1 13W	30° 29'	1	771	K2	1/2-1/2-1/2	good
	1 06W	2 25	1	728	K0	1/2-1/2-1/2	good
	39W	1 11	1	713	G5	1/2-1/2-1/2	good
	1 12W	20 59	1	726	K0	1/2-1/2-1/2	all plates ok filled with handover
	50W	24 16.	1-2	742	K0	1/2-1/2-1/2	filled with handover
	1 08W	61 17	1-2	740	K5	1/2-1/2-1/2	good
	1 45W	61 39	1-2	780	K5	1/2-1/2-1/2	good
	1 5W	64 14	1-2	820	Ma	1/2-1/2-1/2	filled with
	1 00W	66 11	1-2	734	K2	1/2-1/2-1/2	7 min
	0 57W	40 25	2	757	K2	1/2-1/2-1/2	filled with
	1 47W	04 15	1-2	766	Ma	1/2-1/2-1/2	good

9.

Date

Friday September 11-12/AR L-No 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
8245	HD.	173833	18 36	I-25	E-103a-D	Set .010	23.4	19 39	20 25	1-3
8246		185550	19 01	"	"	"	23.4	20 29	20 41	1-7
8247		185655	19 08	"	"	"	23.3	20 45	21 21	2-3
8248		193373	20 12	"	"	"	23.3	21 25	22 05	2-1
8249		219498	22 12	"	"	"	23.2	22 32	23 05	3-3
8250		221246	23 48	"	"	"	23.2	23 37	00 27	3-3
8251		1527	00 40	"	"	"	23.2	00 33	01 15	1-3
8252		7758	01 46	"	"	"	23.2	01 20	01 58	1-7

Time T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp.	REMARKS
	0 45 W	18 39	1-2	7.45	K5 $1\frac{1}{2}-1\frac{1}{2}-1\frac{1}{2}$	
	0 07 E	00 06	1-2	5.57	A0 2-2	
	0 27 W	08 25	1-2	7.15	K0 $1\frac{1}{2}-1\frac{1}{2}-1\frac{1}{2}$	
	1 01 W	13 03	1-2	7.85	Ma $1\frac{1}{2}-1\frac{1}{2}-1\frac{1}{2}$	
	0 00 W	12 15	1-2	7.71	K5 $1\frac{1}{2}-1\frac{1}{2}-1\frac{1}{2}$	Seeing constant
	0 05 W	48 50	1-2	7.45	K2 $1\frac{1}{2}-1\frac{1}{2}-1\frac{1}{2}$	Seeing variable.
	0 03 W	40 24	1-2	7.41	K0 $1\frac{1}{2}-1\frac{1}{2}-1\frac{1}{2}$	 fainter star of two in field - (1552). dense fog adv. by n of gal - some fog moving to see. t. no signs of fog clearing so cloud imp.
	0 12 E	47 06	finite	7.41	K0 $1\frac{1}{2}-1\frac{1}{2}-1\frac{1}{2}$	

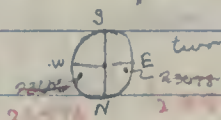
11.

Date Saturday, Sept. 12-13, 1942 H-No 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
8252	HD 162826	17 47.9	+40 05	I-25	B-103a:0	set 010		19 08	19 44	1
8253	169646	18 20.6	+38 42	"	"	"	+20.6	19 46	20 48	2
8254	204560	21 24.3	+17 29	"	"	"	+20.7	20 55	22 01	3
8255	212988	22 23.2	+31 20	"	"	"	+20.7	22 05	22 55	1
8256	220242	23 17.1	+26 50	"	"	"	+20.6	22 57	23 31	2
8257	224303	23 51.6	+22 05	"	"	"	+20.7	23 34	00 24	3
8258	7578	01 10.7	+32 36	"	"	"	+20.6	00 31	01 09	1
8259	11928	01 52.0	+27 18	"	"	"	+20.7	01 14	01 52	2
8260	13522	02 06.9	+23 43	"	"	"	+20.6	01 56	02 30	3
8261	15152	02 21.3	+26 33	"	"	"	+20.6	02 34	03 14	1
8262	23626	03 41.5	+31 54	"	"	"	+20.4	03 22	03 46	2
8263	26605	04 07.4	+37 43	"	"	"	+20.5	03 50	04 30	3
8264	32406	04 57.9	+30 22	"	"	"	+20.6	04 34	05 11	1

cloudy + rain during day, clearing end of afternoon.

Time T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
4	1 32 W	+40 04	1	7.08	G0	1/2-1/2-1/2 strong wind.
7	1 34 W	+38 43	1-0	7.52	K2	1/2-1/2-1/2 Guiding difficult due to increasing NW wind.
8	0 17 E	+17 39	1-0	7.54	K5	1/2-1/2-1/2
5	0 21 E	+31 33	0-1	7.33	K2	1/2-1/2-1/2
12	0 40 E	+26 18	1	6.98	F2	1/2-1/2-1/2 Very bright around streamer low in V.
15	0 21 E	+22 20	1-2	7.65	Ma	1/2-1/2-1/2
19	0 55 E	+32 50	1-2	7.31	K0	1/2-1/2-1/2
2	0 53 E	+27 38	1-2	7.37	Mb	1/2-1/2-1/2
11	0 30 E	+23 54	1-2	7.19	K0	1/2-1/2-1/2 seeing variable
14	0 00	+26 46	1-2	7.36	K5	1/2-1/2-1/2
0	0 49 E	+32 01	1-2	6.79	G0	1/2-1/2-1/2
9	0 31 E	+37 50	1-2	7.33	G5	1/2-1/2-1/2
5	0 37 E	+30 25	1-2	7.39	K0	1/2-1/2-1/2 Razy



two other stars in field. 2 lat of possibility of ... 3625

↓ New batch
Rec'd. 12

13.

Date Sunday Sept 13-14, 1942 H

Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
8265	H.D. 168694	18 16.0	+29 37	I-25	E-103a-0	Set 010	21.1	19 05	19 43	2
8266	174369	18 45.1	+24 56	"	"	"	21.0	19 45	20 09	3
8267	181122	19 14.1	+09 27	"	"	"	21.0	20 11	20 53	1
8268	183589	19 25.2	+02 41	"	"	"	21.0	20 55	20 11	2
8269	202951	21 14.1	+10 47	"	"	"	20.9	22 14	23 00	8
8270	207223	21 42.3	+16 44	"	"	"	20.9	23 03	23 21	1
8271	214714	22 35.0	+37 04	"	"	"	20.9	23 25	23 45	2
8272	215232	22 37.2	+41 23	"	"	"	21.0	23 48	03 30	3
8273	216201	22 45.8	+18 36	"	"	"	20.9	23 33	1 15	1
	From tent - outside the tent									7.5

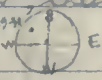
Time C.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS												
	0 37 W	+29 37	1	7.14	K0	Light clouds. good												
	0 34 W	+24 59	1-2	6.56	A0	good												
	0 49 W	+09 30	1-2	7.38	K0	good												
	1 56 W	+02 46	1	7.56	K5	Clouds 21 ¹⁵ - 21 ³⁰ . Star gone or very faint most of time. E. 10.1												
	0 56 W	+17 58	1-2	7.50	K5	Seeing variable. E. 10.1												
	2 48 W	+16 57	2	6.52	F0	good												
	7 20.1	+37 19	2-3	6.92	G5	good												
	1 42 W	+41 15	2	7.07	K0	Star probably not drawn. Setting 9 for 2 nd mag! E. 11.1												
	0 30 W	+13 -50	2-3	7.50	K0	good												
						Edge of northern cloud bank coming over after dinner. E. 11.1												
						<table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th></th> <th>MC</th> <th>SC</th> <th>SW</th> <th>MT</th> <th>ST</th> </tr> </thead> <tbody> <tr> <td>Sep. 14</td> <td>-1 19.4</td> <td>-09.0</td> <td>-1 41.1</td> <td>-08.4</td> <td>-0^m.3</td> </tr> </tbody> </table>		MC	SC	SW	MT	ST	Sep. 14	-1 19.4	-09.0	-1 41.1	-08.4	-0 ^m .3
	MC	SC	SW	MT	ST													
Sep. 14	-1 19.4	-09.0	-1 41.1	-08.4	-0 ^m .3													
						Faint to ... obscured by bright ... (hidden by ^{low} clouds in N. ...)												

Clouds most of day; clearing end of afternoon. 16.
 Cloud again at sunset, delaying opening.

Time L.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
2.5	0 39 W	+31 34	1	6.47	A0	1/2 1/2 1/2 some light clouds.
7.2	1 21 W	+19 13	1	7.51	K0	1/2 1/2 1/2 Thinks see down; transparency of good at high altitude.
5.1	1 06 W	+28 58	1	7.38	K0	1/2 1/2 1/2 Lightning in E + SW.
5.2	1 12 W	+02 02	1	7.20	G5	1/2 1/2 1/2 Clouds + haze 22 ³⁰ — sky from zenith not clear!
	0 55 W	+69 54	1-2	6.42	A0	2-2
	0 57 W	-63 47	2	7.38	K0	1/2 - 1/2 - 1/2 Haze
		+61 5-	2-	7.61	K5	1/2 - 1/2 - Haze + clouds - sky falling in from N.W. side

	MC	SC	SW	MT	ST _m
Sep. 15	-1 21.1	-10.5	-1 43.6	-09.2	-0.4
16	-1 21.8	-11.8	-1 45.5	-10.9	-0.6

Time T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp	REMARKS
0	38 W	00 07	1-2	7.59	K2 1/2-1/2-1/2	Light haze
1	40 W	16 30	1-2	7.58	Ma 1/2-1/2-1/2	
0	12 E	2- 15	1-2	7.95	Ma 1/2-1/2-1/2	
0	47 W	25 39	1-2	7.85	K5 1/2-1/2-1/2	hazy - dome seeing - seeing variable - for
0	33 W	+25 10	1-2	7.24	K5 1/2-1/2-1/2	seeing in 1.10 AM - showing signs of clearing 1.30 AM.
1	39 W	+29 44	1-2	7.40	K0 1/2-1/2-1/2	seeing in 1.00 - 7.10 AM - brighter & seeing variable
0	16 W	+21 52	1-2	7.60	G5 1/2-1/2-1/2	hazy - light fog clearing in 7.30 AM - dome
0	43 E	+30 24	—	7.39	K0 1/2-1/2-	seeing better than very hazy - in eye good seeing but in - faded out by 5.25 - I believe I was at limit of exposure limit.

Time T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp	REMARKS
2	1 ²⁰ W	24 57	2	7.99	K ₂ 1/2-1/2-1/2	stars sky falling in from west of plate fair
1	1 ²⁰ W	+38 21	1-2	7.21	K ₀ 1/2-1/2-1/2	other star (221189) much fainter. 100%. sky clear, thus opened up - seeing variable.
2	0 13 E	+44 10	1-2	7.28	G ₅ 1/2-1/2-1/2	light mist 1294.  two stars in/under; 18941 fainter weak seeing variable
3	1 03 E	+24 19	1-2	7.38	K ₀ 1/2-1/2-1/2	" " closing in - 93 AM. - falling in V. good saw to shorter exposure time.

Sep. 18

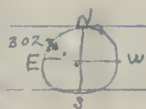
MC	SC	SW	MT	ST
-1 23.1	-13.9	-1 48.9	-13.4	-0.6 ^m

clouds pass in front of. clearing up.

22.

Time T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS																								
1	18 N	+33 42	1	7.21	K2	$\frac{1}{2} \frac{1}{2} \frac{1}{2}$ Light haze. 1/2 in																								
0	38 W	+11 02	1	6.57	K2	$\frac{1}{2} \frac{1}{2} \frac{1}{2}$ Visit from W/C Browne																								
						Increasing fog. Closed up 22 ⁰⁰ because of extreme wetness of dome + shutters. Everything slipping by 22 ³⁰ Put out no more.																								
						Sat. Sep. 19 20 1942 - rain																								
						Sun. 20-21 clear (and cold)																								
						<table style="width: 100%; border-collapse: collapse;"> <tr> <td></td> <td style="text-align: center;">MC</td> <td style="text-align: center;">SC</td> <td style="text-align: center;">SW</td> <td style="text-align: center;">MT</td> <td style="text-align: center;">ST</td> </tr> <tr> <td>Sep. 21</td> <td style="text-align: center;">-1 26.3</td> <td style="text-align: center;">-18.4</td> <td style="text-align: center;">+0.3</td> <td style="text-align: center;">-00.6</td> <td style="text-align: center;">-0.1^m</td> </tr> <tr> <td></td> <td></td> <td></td> <td style="text-align: center;">Reset</td> <td style="text-align: center;">Reset</td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td style="text-align: center;">stopped</td> <td></td> </tr> </table>		MC	SC	SW	MT	ST	Sep. 21	-1 26.3	-18.4	+0.3	-00.6	-0.1 ^m				Reset	Reset						stopped	
	MC	SC	SW	MT	ST																									
Sep. 21	-1 26.3	-18.4	+0.3	-00.6	-0.1 ^m																									
			Reset	Reset																										
				stopped																										

Time	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp.	REMARKS
1	1 ⁴⁰ W	20 47	0	7.37	G5	$1\frac{1}{2} - 1\frac{1}{2} - 1\frac{1}{2}$ good
1	1 ⁰⁰ W	07 57	0-1	8.01	Ma	$1\frac{1}{2} - 1\frac{1}{2} - 1\frac{1}{2}$ little weak
1	1 ⁰⁵ W	30 39	1	7.66	K5	$1\frac{1}{2} - 1\frac{1}{2} - 1\frac{1}{2}$ weak
1	0 ⁵⁴ W	56 59	1-2	7.11	G5	$1\frac{1}{2} - 1\frac{1}{2} - 1\frac{1}{2}$ good
1	0 ⁵⁴ W	54 37	1-2	7.14	K0	$1\frac{1}{2} - 1\frac{1}{2} - 1\frac{1}{2}$ good
3	1 ¹⁹ W	47 06	1-2	7.41	K0	$1\frac{1}{2} - 1\frac{1}{2} - 1\frac{1}{2}$ seeing variable little weak
1	1 ³⁶ W	47 32	1	7.44	K0	$1\frac{1}{2} - 1\frac{1}{2} - 1\frac{1}{2}$ " " good
1	1 ⁵⁶ W	40 20	1	7.18	K0	$1\frac{1}{2} - 1\frac{1}{2} - 1\frac{1}{2}$ sky beginning to fill in 4:34 A.M. stars in good alt. fading out quite frequently during last half of exposure.



3027 also in finder.

clouds at first

Time	Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp	REMARKS
0 1	40 ^m W	37 15	1	7.14	G5	1/2-1/2-1/2	clearing later.
5 2		16 26	1	7.76	K5	1/2-3	haze 8 ³⁵ n 9 by 8 ⁴⁵ Clouds around midnight
9 1	0 23 W	57 40	0	7.44	K0	1/2-1/2-1/2	Light clouds toward end of up
7	0 43 W	09 17	0	7.30	K0	1/2-1/2-1/2	
	0 32 W	00 27	0	7.12	K0	1/2-1/2-1/2	Clouds near end, sky filling in.

	MC	SC	SW	MT	ST
Sep. 24	-1 36.3	-30.5	-10.6	+04.4 ^s	-0.0 ^m

Clouds and strong wind early evening

Time	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp.	REMARKS
3	L 11 E	20 09	1	7.48	K5	1/2-1/2-1/2
6	5 1 E	23 29	1	7.28	G5	1/2-1/2-1/2
4	1 17 E	24 19	1	7.38	K0	1/2-1/2-1/2
4	1 16 E	21 13	1-0	7.34	K0	1/2-1/2-1/2
2	0 15 E	29 30	1-0	7.67	Ma	1/2-1/2-1/2
						<p>13958 and 14066 also in finder.</p> <p>light clouds moving in from S.W. at 41 A.M. sky clearing 01 10</p> <p>14066</p>
						<p>1952 Sep. 25-26 Fri - rain</p> <p>26-27 Sat - rain</p> <p>27-29 Sun - loud at first morning rain</p>
						<p>MC SC SW MT ST</p> <p>Sep. 28 12 -01 43.2 -39.2 -27.8 +07.1 -0.1</p>

29.

Date Monday
Sept. 28-29 1942 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
8311	HD 171994	18 32.6	+16 27	I-25	E-103-0	³⁴ 008	+ 7.9	18 42	20 44	1
8312	188149	19 48.7	+36 11	"	"	"	9.6	20 07	21 13	2
8313	211295	21 03.5	+04 31	"	"	"	9.6	21 17	22 31	3
8314	214979	22 32.9	+30 26	"	"	"	9.9	22 42	00 05	4
8315	2312	01 30.0	+40 24	"	"	"	7.8	00 12	01 14	1
8316	17080	05 02.1	+10 29	"	"	"	7.8	01 18		2

Clouds most of day; clearing at dark.

Time T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
	1 41 W	+16 07	0-1	7.38	K0	$1\frac{1}{2}$ $1\frac{1}{2}$ $1\frac{1}{2}$ N.W. wind. strong
	1 24 W	+36 18	1	7 33	K0	$1\frac{1}{2}$ $1\frac{1}{2}$ $1\frac{1}{2}$ ok
	1 45 W	+26 46	1	7.56	K5	$1\frac{1}{2}$ $1\frac{1}{2}$ $1\frac{1}{2}$ little weak
	1 35 W	+33 40	1-2	7 66	K5	$1\frac{1}{2}$ $1\frac{1}{2}$ $1\frac{1}{2}$ Circle had been moved ok
	0 09 E	+40 48	1-2	7.39	K0	$1\frac{1}{2}$ $1\frac{1}{2}$ $1\frac{1}{2}$ Few minutes lost on starting because sidereal ok
		+15 39	1-2	7.59	K0	They filling on with Vega - had shortly after start getting thicker. Cloud for the sky & dirty telescope. Closed up at 22 30.

Time T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp.	REMARKS
1	53 ^m W	62 44	2.2	701	K0	1/2-1 1/2-1 1/2	good
5	35 W	62 26	2	764	K5	1/2-1 1/2	shut off by clouds. <u>weak</u>
							MC
							SC
							SW
							MT ST
							Sep 30 - 01 30.1 - 26.8 - 21.2 +05.1 +0.1 ^m
							Oct. 1 - 01 30.8 - 26.9 - 22.1 +05.2 +0.1

33.

Date *Thursday Oct 1-2* L-No..... 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
8318	HD	191329	20 04.3	49 57	I-25	E-103.0	16.0	18 35	19 47	7
8319	"	215139	22 34.2	53 23	"	"	16.1	19 55	21 00	4
8320	"	215241	23 01.5	19 22'	"	"	16.1	21 11	22 17	1
8321	"	215103	23 02.2	00 46	"	"	16.1	22 32	23 38	3
8322	"	12419	01 57.2	13 00	"	"	16.1	23 57	01 29	3
8323	"	23211	03 29.5	06 05	"	"	16.2	01 34	02 44	4
8324	"	34810	05 15.0	19 43	"	"	16.1	02 50	04 00	1
8325	"	35579	05 20.2	35 25	"	"	16.1	04 24	05 46	5

Time	Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp.	REMARKS
7	0 05 W	50 05	1	6.58	A ₂	1/2-1/2-1/2	good
4	1 10 E	53 35	1	7.33	K ₂	1/2-1/2-1/2	Seeing variable, wind rising. little work
	2 25 E	19 37	1-0	6.92	F ₈	1/2-1/2-1/2	Seeing poor good
	3 14 W	01 01	0	7.38	K ₀	1/2-1/2-1/2	good
7	0 07 E	13 12	1	7.63	M ₀	1/2-1/2-1/2	Wind dipping seeing improving. little work
4	0 24 E	06 13	1-0	7.08	G ₀	1/2-1/2-1/2	good
	0 33 E	19 44	1-0	7.44	K ₀	1/2-1/2-1/2	little work
	0 48 W	35 25	1-0	7.37	K ₂	1/2-1/2-1/2	Hazy. <u>work</u>

Clouds from sunset on. delayed start.

Time	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
	1 35W	+50 46	0-1	7.15	G5	1/2 1/2 1/2 Light clouds. strong E wind. slowly thinning out
	1 24W	+41 35	1	7.43	K0	1/2 1/2 1/2 Thick haze 20 ¹⁵ - 20 ³⁵ ⁶ cloudy light sunset 21
	1 27W	+35 37	1-2	7.60	K0	1/2 1/2 1/2
	1 03W	+03 31	2	7.50	K2	1/2 1/2 1/2 light scattered clouds 23 ²⁰ ²⁰ little work
	0 57E	+03 10	2	7.15	G5	1/2 1/2 - 1/2 Hazy - misty clouds moving in from NE. - ^{work} filling in 1.15 AM - waited for an hour - no signs of clearing - strong east wind.

31.

Date *Saturday, October 3-4, 1942* Y-No 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
831 831	HD. 172,631	18 36.2	30 46	1-25	E-102a-D	^{3at} .008	13.4	18 46	19 30	1
				plate kept						
		<i>Sunday, October 4-5, 1942</i>		H	<i>Cloudy all evening.</i>					

Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp.	REMARKS
1 31 W	+30 49	1	7.48	K0	1/2-1/2	Hazy sky - strong East wind - stars faded - out of slit. 19 20 P.M. Sky still very hazy 20 00 P.M. - showing no signs of improvement 22 00 P.M. (sky very hazy - strong East wind, barometer rising) Closed up + went home 22 15
						<div style="display: flex; justify-content: space-around; align-items: flex-end;"> <div style="text-align: center;"> <p>MC</p> <p>Oct. 5 12 -1 32.5</p> </div> <div style="text-align: center;"> <p>SC</p> <p>-31.8</p> </div> <div style="text-align: center;"> <p>MT</p> <p>+07.9</p> </div> <div style="text-align: center;"> <p>ST</p> <p>+0.0</p> </div> <div style="text-align: center;"> <p>SW</p> <p>-07.7</p> </div> </div> <p style="text-align: center;">Reset</p>

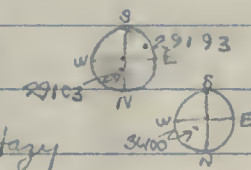
Time	Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp.	REMARKS																		
2	59W	9 28	1	738	K0	$1\frac{1}{2}-1\frac{1}{2}-1\frac{1}{2}$	clouds - good																		
1	37W	53 32	0-1	710	K0	$1\frac{1}{2}-1\frac{1}{2}-1\frac{1}{2}$	Too Strong Little "																		
	1 ¹⁷ W	52 29	1	726	K0	$1\frac{1}{2}-1\frac{1}{2}-1\frac{1}{2}$	Passing cloud																		
	0 ³³ W	14 19	1	6.50	A ₂	$1\frac{1}{2}-1\frac{1}{2}-1\frac{1}{2}$	Wind rising image unsteady Too Strong																		
	0 ⁰⁰	45 07	1	7.77	Ma	$1\frac{1}{2}-1\frac{1}{2}-1\frac{1}{2}$	Fine																		
	0 ³⁰ E	41 11	1-2	6.90	G5	$1\frac{1}{2}-1\frac{1}{2}-1\frac{1}{2}$	Strong																		
	0 ⁰⁵ E	50 46	1-2	7.52	K0	$1\frac{1}{2}-1\frac{1}{2}-1\frac{1}{2}$	Little Strong																		
Focus reset to				23,60	Please take a focus test.																				
<table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th></th> <th>m.e.</th> <th>s.e.</th> <th>s.w.</th> <th colspan="2">m.T. S.T.</th> </tr> <tr> <th></th> <th></th> <th></th> <th></th> <th>+</th> <th>-</th> </tr> </thead> <tbody> <tr> <td>Oct. 6</td> <td>-1 34.5</td> <td>-0 35.5</td> <td>-0 15.9</td> <td>+7.7</td> <td>-0.1</td> </tr> </tbody> </table>									m.e.	s.e.	s.w.	m.T. S.T.						+	-	Oct. 6	-1 34.5	-0 35.5	-0 15.9	+7.7	-0.1
	m.e.	s.e.	s.w.	m.T. S.T.																					
				+	-																				
Oct. 6	-1 34.5	-0 35.5	-0 15.9	+7.7	-0.1																				

Date Wednesday October 7-1/42 - L. No. 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
8339	HD 194525	20 21.0	09 45	T-25	E 103a0	Sec 0.058	16.6	18 40	20 10	3
8340	" 194937	20 23.2	09 57	"	"	"	16.4	20 14	21 30	1
8341	{ " 209255	21 09	74 31	"	"	"	16.4	21 15	22 30	1
	{ Focus Point									
8342	HD 221821	23 30.6	71 05	"	"	"	16.3	23 05	23 55	2
8343	" 1740	00 41.6	72 08	"	"	"	16.4	00 00	00 40	3
8344	" 29104	04 29.8	17 41	"	"	"	16.4	00 52	01 44	1
8345	" 31160	05 24.7	22 23	"	"	"	16.2	01 48	03 30	1
8346	" 45638	06 23.5	11 05	"	"	"	16.1	03 35	04 25	2

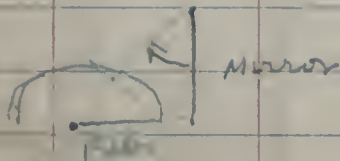
Mr Longworth - I have had finding mirror out - so small circle on ground glass may need adjusting. I have put filler on inside, it turns on and out of position. Do not turn it in unless affected mirror is back out of the way

Time T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp	REMARKS
3	2 ³⁴ W	09 52	1	7.64	K5	$1\frac{1}{2}$ - $1\frac{1}{2}$ - $1\frac{1}{2}$ little weak
	1 ³ W	08 16	1-2	7.26	K0	$1\frac{1}{2}$ - $1\frac{1}{2}$ - $1\frac{1}{2}$ good
	1 ⁴⁵ W	04 45	1-2	7.82	K5	$1\frac{1}{2}$ - $1\frac{1}{2}$ - $1\frac{1}{2}$ good
					7 _s -5 _s	focus OK
55	1 12 W	71 20	2	7.13	K0	$1\frac{1}{2}$ - $1\frac{1}{2}$ - $1\frac{1}{2}$ good
3	0 43 W	72 22	2	7.04	K0	$1\frac{1}{2}$ - $1\frac{1}{2}$ - $1\frac{1}{2}$ little strong
4	2 00 E	19 47	1-2	7.06	F8	$1\frac{1}{2}$ - $1\frac{1}{2}$ - $1\frac{1}{2}$ (double line +) good
30	1 08 E	22 26	1	7.49	K0	$1\frac{1}{2}$ - $1\frac{1}{2}$ - $1\frac{1}{2}$ Hazy little weak
2	1 12 E	11 05	1	6.71	F0	$1\frac{1}{2}$ - $1\frac{1}{2}$ - $1\frac{1}{2}$ Hazy long weak



Heat on Mirror -

(bolide)
Magnificent meteor seen at 4:50 PM.
passing in direction of the constellation
Orion - so bright that it lit up
the surrounding countryside quite clearly.



Power off Friday 1-4 A.M.

44

Time	Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp.	REMARKS
3	C 31 W	02 44	1	7.35	Ko	$1\frac{1}{2}-1\frac{1}{2}-1\frac{1}{2}$	Opening delayed 30 mins because ^{good}
4	1 35 W	05 19	1-0*	7.30	Ko	$1\frac{1}{2}-1\frac{1}{2}-1\frac{1}{2}$	the belt on focussing motor flew off ^{good}
7	C 23 W	55 12	1	6.29	Ao	$1\frac{1}{2}-1\frac{1}{2}-1\frac{1}{2}$	twice landed on the dome floor. Result ^{good}
8	1 21 W	56 17	1	7.20	65	$1\frac{1}{2}-1\frac{1}{2}-1\frac{1}{2}$	to putting a twist in belt to ^{little bit} give it needed tension
							* ^{was necessary} half way through, swing across
							<u>was up on 1st</u>
							MC SC SW MT, ST
							Def g - 135 5 - 38 0 - 25 9 + 0 8 4 - 0 0

cleaned slit?

Time	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
?	36 E	10 27	1	3.87	K2	4-4 ³ } plate Taken thru filter #39
0	25 E	10 27	1	"	"	4-4
0	41 W	38 20	0-1	7.34	G5	1/2-1/2-1/2
10	1 02 W	+2 43	1	7.55	K0	1/2-1/2-1/2
2	46 W	15 35	1	7.36	K0	1/2-1/2-1/2
5	1 31 W	23 48	1	7.49	K0	1/2-1/2-1/2
0	0 31 E	33 36	1	7.25	K0	1/2-1/2-1/2
1	1 12 E	34 48	1-0	7.49	K0	1/2-1/2-1/2
0	0 15 W	33 14	1-0	7.30	K0	1/2-1/2-1/2
<p>Binary - took south following (brighter) - cloud moving in from S.W. 1 34 EST - clearing 1 50 EST clearing again 2:20 EST - clearing 3:00 More clouds from S.W. 1 30 EST - its faded out 1 38 EST.</p> <p>— Heat on Mirror —</p>						

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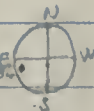
Date Saturday Oct. 10-11 1942 H-No

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
8360	HD 174205	18 44.3	+70 41	I-25	E 103 ₂ 0	008	15.6	18 19	19 49	3
8361	197508	20 39.1	+83 17	"	"	"	15.6	19 54	20 24	4
8362	199095	20 49.8	+82 10	"	"	"	15.5	20 27	20 42	1
8363	206509	21 37.4	+54 25	"	"	"	15.5	20 41	21 44	2
8364	222150	22 17.1	+76 00	"	"	"	15.4	21 47	22 23	3
8365	214710	22 35.2	+74 21	"	"	"	15.4	22 26	23 22	4
8366	0904	00 27.3	+70 26	"	"	"	15.2	23 29	23 55	5
8367	4295	00 40.3	+68 17	"	"	"	15.3	00 00	00 38	2
8368	7389	01 07.0	+71 13	"	"	"	15.2	00 19	01 50	3
8369	16029	02 29.4	+65 19	"	"	"	15.3	01 56	02 44	7
8370	60109	03 05.8	+65 17	"	"	"	15.2	02 53	03 27	1
8371	55271	03 55.9	+68 24	"	"	"	15.3	03 31	04 37	2

Clouds before sunset; clearing before dark.

Time .T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
	2 03 W	+70 44	1	7.63	K2	1/2 1/2 1/2
	0 47 W	+83 25	1	6.22	A2	1/2 1/2 1/2
	0 54 W	+82 20	1-2	5.69	A0	1/2 1/2 1/2
	1 14 W	+50 37	1	7.16	K0	1/2 1/2 1/2
	0 41 W	+76 14	1-2	6.56	A0	1/2 1/2 1/2
	1 45 W	+75 04	1-2	7.24	K5	1/2 1/2 1/2
	0 25 W	+70 41	1-2	6.36	A0	1/2 1/2 1/2
	0 55 W	+68 58	1	6.76	F2	1/2 1/2 1/2
	1 32 W	+71 28	1-2	7.38	K0	1/2 1/2 1/2
	1 11 W	+65 28	1-2	7.07	K0	1/2 1/2 1/2
	1 14 W	+65 25	1	6.41	A2	1/2 1/2 1/2
	1 37 W	+68 31	1	7.21	K2	1/2 1/2 1/2




— Heat on Meridian —

Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp	REMARKS
1 17 W	63 50	0	7.10	K5	$1\frac{1}{2} - 1\frac{1}{2} - 1\frac{1}{2}$	Well work
1 58 W	63 55	0-1	7.41	K0	$1\frac{1}{2} - 1\frac{1}{2} - 1\frac{1}{2}$	ok
0 57 W	77 16	1	7.16	G5	$1\frac{1}{2} - 1\frac{1}{2} - 1\frac{1}{2}$	Strong
1 55 W	70 42	1-0	6.52	A0	$1\frac{1}{2} - 1\frac{1}{2} - 1\frac{1}{2}$	Strong but not
0 20 W	64 05	1-0	7.74	K5	$1\frac{1}{2} - 1\frac{1}{2} - 1\frac{1}{2}$	Little work

	MC	SC	SW	MT	ST
Oct. 14	-1 35.4	-43.0	-28.2	+12.8 ^s	-0.0 ^m
15	-1 36.9	-45.3	-30.2	+12.3	+0.1
16	-1 36.3	-45.4	-31.6	+12.6	+0.1

Date Sunday Oct. 18-19, 1942 H-No 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
8385	HD 182272	19 18.8	+33 19	I-25	E-103a-0	5+ 0.18	12.7	18 01	18 55	3
8386	" 193094	20 12.4	+38 50	"	"	"	12.9	18 57	20 21	4
8387	" 203857	21 19.7	+38 55	"	"	"	12.9	20 02	21 44	1
8388	" 211122	21 57.4	+43 20	"	"	"	12.7	21 25	22 50	2
8389	" 212495	22 11.2	+43 01	"	"	"	12.5	22 43	23 31	3
8390	" 5357	00 50.4	+68 15	"	"	"	12.7	23 07	23 49	4
8391	" 5925	01 13.8	+75 13	"	"	"	12.6	23 55	00 31	1
8392	" 11221	02 12.9	+48 29	"	"	"	12.6	00 38	01 32	2
8393	" 15253	02 22.3	+55 05	"	"	"	12.6	01 25	02 09	3
8394	" 21004	03 18.5	+53 35	"	"	"	12.6	02 14	03 25	4
8395	" 28930	04 28.4	+9 12	"	"	"	12.5	03 33	04 31	1

Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS												
1 04 W	33 26	1-2	7.30 K0	1/2 1/2 1/2 Some light cirrus clouds. strong W wind.												
1 15 W	+28 59	1-2	7.38 K0	1/2 1/2 1/2												
1 23 W	+37 07	1	7.77 K5	1/2 1/2 1/2												
1 30 W	+62 38	1-2	7.16 K0	1/2 1/2 1/2												
1 19 W	+73 56	1	5.74 A0	1/2-1/2-1/2 heavy												
0 27 W	+68 30	1	6.66 F0	1/2-1/2-1/2												
0 45 W	+75 56	1-0	6.53 A3	1/2-1/2-1/2												
0 38 W	+78 41	1-0	6.68 F0	1/2-1/2-1/2												
1 15 W	+55 17	1-0	6.62 A ₁	1/2 1/2 1/2  15407 is it a binary? If so, components very close to the												
1 36 W	+53 43	1	6.67 F0	1/2 1/2 1/2 clouds moving quickly from N to S												
1 32 W	+09 17	1	7.20 K0	1/2-1/2-1/2 faded out about 15 minutes after beginning of exposure. - reappearing frequently - clear												
15358																
Heat Glob on Mirror																
<table border="0"> <tr> <td></td> <td>MC</td> <td>SC</td> <td>SW</td> <td>MT</td> <td>ST_m</td> </tr> <tr> <td>Oct. 19</td> <td>-138.6</td> <td>-50.8</td> <td>-35.1</td> <td>+10.4</td> <td>-0.0</td> </tr> </table>						MC	SC	SW	MT	ST _m	Oct. 19	-138.6	-50.8	-35.1	+10.4	-0.0
	MC	SC	SW	MT	ST _m											
Oct. 19	-138.6	-50.8	-35.1	+10.4	-0.0											

Date Tuesday Oct 20-21

Y-L

Julian Day 243063

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
8396	HD 199442	20 52.1	00 45	25	E 103a-0	008	11.0	6 28 ¹⁵	7 26	2
8397	" 202582	21 11.7	63 59	"	"	"	11.1	7 35 ⁰⁰	8 15 ⁵⁵	3
8398	" 204599	21 24.6	59 19	"	"	"	11.0	8 25	9 31	4
8399	" 217673	22 57.3	56 34	"	"	"	11.1	9 35	10 25	1
8400	" 224309	23 51.7	82 38	"	"	"	11.1	10 39	10 49	2
8401	" 6028	00 56.5	50 30	"	"	"	11.1	10 53	11 29	5
8402	" 15325	02 22.9	01 31	"	"	"	11.1	00 38	01 17	4
8403	" 19325	03 03.3	05 05	"	"	"	11.1	01 31	02 01	1
8404	" 5523	01 11.1	03 57	"	"	"	11.0	02 10	02 50	3
Thursday Oct, 22-23 L-No										
Clouds and rain all day and evening - clearing about midday Rain extremely with strong SW wind - cleared over again at 1:30 A.M. - night clear.										

Light clouds at beginning.

g Time S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp.	REMARKS
26 2	10 ^m 18 E W	+00 15	1-2	7.33	K2	1/2-1/2-1/2	ok
15 2	40 ^m 20 W W	64 11	1-2	6.97	G0	1/2-1/2-1/2	Light clouds. Fine
31 -	1 43 W	59 30	2	7.74	Ma	1/2-1/2-1/2	2nd com to 20° ± South. ok
25 -	1 04 W	56 50	2-3	7.57	K2	1/2-1/2-1/2	Fine
-	34 W	82 52	2-3	6.42	A0	1/2-1/2-1/2	ok
-	06 W	50 44	3	6.70	A3	1/2-1/2-1/2	Light clouds. Fine
-	0 ^m 40 W	01 42	3	7.49	K0	1/2-1/2-1/2	Light clouds. Fine
-	0 ^m 33 W	03 1-	3	7.22	G5	1/2-1/2-1/2	ok
-	06 03	03	2-3	7.72	G5	1/2	Blending over shortly after start.
							Oct. 20 m.c. 3c. 3w. <u>m.T.</u> <u>ST.</u> -1 37.9 -5/1 -33.9 +10.3 -9.0

cleared about 10 EST

g Time S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp.	REMARKS																		
4	1 42W	37 43	1	7.52	K5	1/2-1/2-1/2	Trouble with focussing belt, would not stay on																		
5	0 52W	36 51	1	7.39	K0	1/2-1/2-1/2	at work																		
3	1 09E	33 30	1-0	7.43	K0	1/2-1/2-1/2	at work																		
4	0 32W	33 55	1-0	7.73	Ma	1/2-1/2-1/2	Seeing variable Heat not on mirror at work good																		
							New belt put on, set up, spare belt in desk drawer																		
							<table border="0"> <tr> <td></td> <td>mc.</td> <td>sc.</td> <td>sw.</td> <td>mf.</td> <td>st.</td> </tr> <tr> <td>Oct. 22</td> <td>-139.9</td> <td>-55.1</td> <td>-34.9</td> <td>-8.7</td> <td>0.0</td> </tr> <tr> <td>23</td> <td>-138.7</td> <td>-55.6</td> <td>-33.7</td> <td>-11.9</td> <td>-0.1</td> </tr> </table>		mc.	sc.	sw.	mf.	st.	Oct. 22	-139.9	-55.1	-34.9	-8.7	0.0	23	-138.7	-55.6	-33.7	-11.9	-0.1
	mc.	sc.	sw.	mf.	st.																				
Oct. 22	-139.9	-55.1	-34.9	-8.7	0.0																				
23	-138.7	-55.6	-33.7	-11.9	-0.1																				
							<table border="0"> <tr> <td></td> <td>mc.</td> <td>sc.</td> <td>sw.</td> <td>mf.</td> <td>st.</td> </tr> <tr> <td>Oct. 21</td> <td>-139.5</td> <td>-53.8</td> <td>-35.7</td> <td>-4.9</td> <td>0.0</td> </tr> </table>		mc.	sc.	sw.	mf.	st.	Oct. 21	-139.5	-53.8	-35.7	-4.9	0.0						
	mc.	sc.	sw.	mf.	st.																				
Oct. 21	-139.5	-53.8	-35.7	-4.9	0.0																				

g Time S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS																																				
1	26 W	+16 25	2	7.76 K5	$1\frac{1}{2}$ $1\frac{1}{2}$ $1\frac{1}{2}$ little work																																				
1	23 W	+69 32	2	7.52 K0	$1\frac{1}{2}$ $1\frac{1}{2}$ $1\frac{1}{2}$ little work																																				
0	50 W	+63 01	2	7.41 Ma	$1\frac{1}{2}$ $1\frac{1}{2}$ $1\frac{1}{2}$ good																																				
0	52 W	+62 38	2-3	7.16 K0	$1\frac{1}{2}$ $1\frac{1}{2}$ $1\frac{1}{2}$ good																																				
1	50 W	+61 38	2	7.50 K5	$1\frac{1}{2}$ $1\frac{1}{2}$ $1\frac{1}{2}$ little work																																				
2	13	+40 24	2-1	7.41 K0	$1\frac{1}{2}$ $1\frac{1}{2}$ $1\frac{1}{2}$ light fleecy clouds moving in from S.W. - getting thicker (2:30 AM EST. - waited on hour - no signs of clearing - cloud up. good <u>Heat On Mercury</u>																																				
<table border="0" style="width: 100%;"> <tr> <td></td> <td>m.c.</td> <td>s.c.</td> <td>s.w.</td> <td colspan="2">m.t. s.t.</td> </tr> <tr> <td>Oct. 26</td> <td>-1 39.6</td> <td>-59.9</td> <td>-40.9</td> <td>s</td> <td>m</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td>+9.7</td> <td>+0.0</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td colspan="2" style="text-align: center;">Reset</td> </tr> <tr> <td></td> <td>m.c.</td> <td>s.c.</td> <td>s.w.</td> <td colspan="2">s m</td> </tr> <tr> <td>Oct. 27</td> <td>-1 40.0</td> <td>-1 01.4</td> <td>-40.1</td> <td>+10.1</td> <td>-0.1</td> </tr> </table>							m.c.	s.c.	s.w.	m.t. s.t.		Oct. 26	-1 39.6	-59.9	-40.9	s	m					+9.7	+0.0					Reset			m.c.	s.c.	s.w.	s m		Oct. 27	-1 40.0	-1 01.4	-40.1	+10.1	-0.1
	m.c.	s.c.	s.w.	m.t. s.t.																																					
Oct. 26	-1 39.6	-59.9	-40.9	s	m																																				
				+9.7	+0.0																																				
				Reset																																					
	m.c.	s.c.	s.w.	s m																																					
Oct. 27	-1 40.0	-1 01.4	-40.1	+10.1	-0.1																																				

Please get a focus Test.

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Time T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp.	REMARKS																								
4 ⁰⁰	0 20 E	10 58	3	7.50	K5 1½-1½-1½	Setting 2½ 7-5 .. 7½																								
4 ³⁰	0 10 W	36 19	3	7.78	K5 1½-1½-1½	Light clouds. Heavy clouds rolling up from SW.																								
4 ⁴⁵	0 25 E	+42 19	2	6.94	G5 1½-1½-1½	Sky thick at 19.46																								
24	1 12 W	+10 00	1	7.62	K0 1½-1½-1½	Still thick at 20.30 so cloud up. <u>weak</u> Thick at 22 ⁰⁰ when leaving for home Heat Not On - cleared about midnight - sky getting very hazy shortly after beginning exposure. a little hazy. Sky too murky to carry on - barely able to make out stars in region of starboard. - Heat Not On -																								
						<table border="0"> <thead> <tr> <th></th> <th>MC</th> <th>SC</th> <th>SW</th> <th>MT</th> <th>ST</th> </tr> </thead> <tbody> <tr> <td>Oct 29</td> <td>-1 41.3</td> <td>-1 05.2</td> <td>-38.4</td> <td>+13.0</td> <td>-0.1</td> </tr> <tr> <td></td> <td>m.e.</td> <td>s.e.</td> <td>s.w.</td> <td>m.n.</td> <td>s.f.</td> </tr> <tr> <td>Oct. 30</td> <td>-1 41.1</td> <td>-1 05.4</td> <td>-36.7</td> <td>+14.1</td> <td>+0.2</td> </tr> </tbody> </table>		MC	SC	SW	MT	ST	Oct 29	-1 41.3	-1 05.2	-38.4	+13.0	-0.1		m.e.	s.e.	s.w.	m.n.	s.f.	Oct. 30	-1 41.1	-1 05.4	-36.7	+14.1	+0.2
	MC	SC	SW	MT	ST																									
Oct 29	-1 41.3	-1 05.2	-38.4	+13.0	-0.1																									
	m.e.	s.e.	s.w.	m.n.	s.f.																									
Oct. 30	-1 41.1	-1 05.4	-36.7	+14.1	+0.2																									

67

Date Sunday, 21 November 1-2, 1942 H Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
8422	HD 191814	20 06.7	+20 51	I-25	E-103a-0	Set 0.08	+9.8	17 43	18 35	1
8423	200527	20 58.9	+44 25	"	"	"	+10.0	18 38 Call mean	20 10 10 12	2
8424	215907	22 43.5	+57 57	"	"	"	+10.0	20 32	20 52	
	Focus test, outside the box,			8", 6"		setting 10				

g Time S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS												
0	5 ² ✓	+20 59	2-1	7.26	KO	1 $\frac{1}{2}$ · 1 $\frac{1}{2}$ 1 $\frac{1}{2}$ Seeing very variable.												
1	3 ⁵ ✓	+44 36	2-1	7.73	MG	1 $\frac{1}{2}$ 1 $\frac{1}{2}$ 1 $\frac{1}{2}$ Light clouds 19 ⁴⁰ . star barely visible 19 ⁴⁵ - 19 ⁵⁰ - impaired fairly												
2		+58 13	1	6.29	AO	1 $\frac{1}{2}$ 1 $\frac{1}{2}$ Best part of sky, but hazy. Filling in almost from start. Star gone by 20 ⁵²												
						<table style="margin-left: auto; margin-right: auto;"> <tr> <td></td> <td>MC</td> <td>SC</td> <td>SW</td> <td>MTW</td> <td>STW</td> </tr> <tr> <td>Nov. 2</td> <td>-1 42.8</td> <td>-1 10.1</td> <td>-39.1</td> <td>+13.0</td> <td>+0.1^m</td> </tr> </table>		MC	SC	SW	MTW	STW	Nov. 2	-1 42.8	-1 10.1	-39.1	+13.0	+0.1 ^m
	MC	SC	SW	MTW	STW													
Nov. 2	-1 42.8	-1 10.1	-39.1	+13.0	+0.1 ^m													

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp.	REMARKS												
36	0 47 W	21 57	0-1	7.53	M ₆	1 1/2 - 1 1/2 - 1 1/2 fine												
	0 50 W	24 15	1	7.95	M ₈	1 1/2 - 1 1/2 - 1 1/2 with some												
	0 25 W	25 09	1	7.24	K ₅	1 1/2 - 1 1/2 - 1 1/2 fine												
	0 16 E	10 38	1-2	7.38	H ₅	1 1/2 - 1 1/2 - 1 1/2 Fairly strong, Easter wind.												
	0 25 E	10 07	1-2	7.33	G ₅	1 1/2 - 1 1/2 - 1 1/2 fine												
	0 54 E	26 34	2-3	7.47	K ₀	1 1/2 - 1 1/2 - 1 1/2 fine												
	0 45 W	10 35	1	7.50	K ₀	1 1/2 - 1 1/2 - 1 1/2 Hazy fine												
	0 50 W	20 30	1	6.11	A ₀	1 1/2 - 1 1/2 - 1 1/2 quite hazy fine												
- Heat on Mercur -																		
guiding not perfect on 24th																		
<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%;"></td> <td style="width: 15%; text-align: center;">m.c.</td> <td style="width: 15%; text-align: center;">s.c.</td> <td style="width: 15%; text-align: center;">s.w.</td> <td style="width: 15%; text-align: center;">m.p.w.</td> <td style="width: 15%; text-align: center;">p.f.w.</td> </tr> <tr> <td style="text-align: right;">Nov. 6</td> <td style="text-align: center;">-1 40.8</td> <td style="text-align: center;">-1 12.4</td> <td style="text-align: center;">-340</td> <td style="text-align: center;">118.2</td> <td style="text-align: center;">102</td> </tr> </table>								m.c.	s.c.	s.w.	m.p.w.	p.f.w.	Nov. 6	-1 40.8	-1 12.4	-340	118.2	102
	m.c.	s.c.	s.w.	m.p.w.	p.f.w.													
Nov. 6	-1 40.8	-1 12.4	-340	118.2	102													

Date Friday November 6-7 1942 H-No 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
8435	HD 193217	20 14.0	+42 24	I-25	E-103.0	^{Sat} 0.8	+8.8	17 35	19 09	3
8436	" 208527	21 51.7	+20 48	"	"	"	+8.8	19 12	21 12	4
8437	" 34999	05 12.8	+33 53	"	"	"	+5.7	02 52	03 33	1
8438	" 12471	06 05.8	+32 43	"	"	"	+5.6	03 33	07 15	2
8439	" 47358	06 33.1	+22 07	"	"	"	+5.5	04 19	05 19	3
8440	" 49073	06 36.5	+37 15	"	"	"	+5.8	05 23	06 15	4
Saturday November 7-8 Y-No										
<p>sky showing signs of clearing at 23 00 but still very hazy. Halted until 2 30 - no signs of clearing - fairly strong NE wind light clouds and very much haze.</p>										

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
1 35 W	+42 23	0-1	7.52	K2 1/2 1/2 1/2	Light of comet star $\rightarrow 18^{20}$; then clear + a star ^{little}
2 25 W	+20 59		7.80	K5 1/2 1/2 1/2	NO. 84452 Have of L3 3 stages shortly after start and more ^{near}
1 01 W	+33 56	1	6.66	A5 1/2-1/2-1/2	NO. 34578 continuously.
0 53 W	+32 43	1-2	7.03	K2 1/2-1/2-1/2	sky very turbid. Star indistinguishable but still deep.
1 30 N	+22 08	1-2	7.28	K0 1/2-1/2-1/2	sky clear 23 ³⁰ but clouds moving in from NW - waited
2 23 W	+37 12	1-2	7.24	K0 1/2-1/2-1/2	sky very hazy 01 ⁰⁰ - clear 02 30

Date Sunday November 8-9 No. _____ 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	
8441	H.D. 214313	22 32.2	35 08	1.25	F-103a70	Set. .008	+8.1	19 55	21 29	1 15.9 W	
8442	H.D. 292900	274 27	01	"	"	"	+8.0	21 14	22 24	2 03.9 W	
8443	" 15138	52 21.2	50 07	"	"	"	+8.0	22 21	22 45	3 04.5 W	
8444	" 18482	02 53.2	40 38	"	"	"	+8.0	22 50	23 40	4 26.5 W	
8445	" 21335	03 21.4	18 25	"	"	"	+8.0	23 44	00 10	1 19.5 W	
					Monday Nov 9-10		cloudy with rain				
					Tuesday Nov 11-12		- cloudy with light snow				
					sky clearing shortly before midnight but very strong		N.W. wind - star				
							twinkling badly				
							Not settled by 2:00 - weather				

ending Time
E.S.T.

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

1 58 W	+35 21	0-1	7.68	K ₅ 1/2-1/2-1/2	Desk lamp not working. Long variable ⁹⁰⁰⁰
0 38 W	+27 17	1-2	6.54	H ₀ 1/2-1/2-1/2	
0 45 E	+50 18	2-3	6.55	F ₀ 1/2-1/2-1/2	
0 28 E	+40 50	2-1	7.14	K ₂ 1/2-1/2-1/2	
0 18 F	+18 34	2-1	6.51	A ₂ 1/2-1/2-1/2	

	m.c.	s.c.	s.w.	S.T.W. m	M.T.W. S.
Nov. 9	-1 42.0	-1 17.0	-33.2	+0.3	+21.9
	m.c.	sc.	s.w.	S.T.W.	M.T.W.
Nov. 10	-1 41.6	-1 18.1	-32.9	+0.3	+22.9
	m.c.	sc.	s.w.	S.T.W.	M.T.W.
Nov. 11	-1 41.8	-1 19.4	-31.7	+0.3	+25.1
	m.c.	sc.	s.w.	S.T.W.	M.T.W.
Nov. 12	-1 42.0	-1 20.6	-30.4	+0.3	+26.0

Nov. 13 S.T.W. and M.T.W. Kanch

Ending Time
E.S.T.Hour Angle
End

Declination

Seeing

Ptg. Mag.

REMARKS

6:50 15

Clouds & snow during day. Clearing off 11:00^{am} D.S.T.
 but clouding again 12:15. Finally clearing 2:25.
 Dome floor directly below shutter covered
 with water. After removing water from
 telescope tube, mirror found to be somewhat
 fogged so heat had not done. Put on heat
 OK by 3:45 - more clouds - raining at 3:45 - clearing
 for short intervals from time to time. Still unsettled
 - Heat on Mirror - at 5:00

W B E N 17^h

MT	ST
+19.1	+0.1

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Date Sat Nov 14-15

Y-No

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
8446	HD 203358	21 16.6	32 02	25"	F 1031a-D	00-8	-3.5	5 56	7 36	2
8447	HD 218261	23 01.5	19.22	"	"	"	-3.9	7 41	8 41	3
8448	HD 1419	00 13.2	10 39	"	"	"	-3.9	8 46	9 06	4
	Focus lost		Outside thru base		7-5 ⁵					
<p>Sunday, Nov 15-16 H-L</p> <p>Cloudy early evening clearing around 9³⁰ E.S.T. Strong S wind, and very mild.</p> <p>Much water on dome floor; fortunately opened vis to look at mercur. Soaking out with water streaming down it. Sunday sunrise O.K. Put heat back on.</p>										

Clear all day. clouds at sunset.

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp	REMARKS												
7:36	133W	32 15	0	7.22	B5	1/2-1/2-1/2	very poor seeing good												
8:13	53W	19 36	0-1	6.92	F8	1/2-1/2-1/2	good												
9:00	5 ^m W	10 53	0-1	7.20	K0	1/2-1/2-	Focus set to 23.80, <u>clouded</u> usable												
							Sky breaking 2:30 DST to 3:00 - clouded over no signs of clearing 4:20 - Heat On Mirror -												
							Focus 23 ⁸⁰ about right. might be 23 ⁸³												
							<table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th></th> <th>MC</th> <th>SC</th> <th>SW</th> <th>MT</th> <th>ST^m</th> </tr> </thead> <tbody> <tr> <td>Nov 16</td> <td>-1 41.8</td> <td>-1 24.6</td> <td>-40.3</td> <td>+25.3</td> <td>+0.2</td> </tr> </tbody> </table>		MC	SC	SW	MT	ST ^m	Nov 16	-1 41.8	-1 24.6	-40.3	+25.3	+0.2
	MC	SC	SW	MT	ST ^m														
Nov 16	-1 41.8	-1 24.6	-40.3	+25.3	+0.2														

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp	REMARKS																		
161	36 W	+52 32	2-3	7.26	K0	1 1/2-1 1/2-1/2	<p>Light clouds shortly after beginning exposure.</p> <p>Exposure clouded out - sky still solid 1120.</p>																		
<table> <thead> <tr> <th></th> <th>n.e.</th> <th>sc.</th> <th>sw.</th> <th>m.f.w.</th> <th>st.w.</th> </tr> </thead> <tbody> <tr> <td></td> <td></td> <td></td> <td></td> <td>5</td> <td>m</td> </tr> <tr> <td>Nov. 17</td> <td>-1 41.8</td> <td>-1 25.9</td> <td>-1 5.8</td> <td>+16.2</td> <td>+0.2</td> </tr> </tbody> </table>									n.e.	sc.	sw.	m.f.w.	st.w.					5	m	Nov. 17	-1 41.8	-1 25.9	-1 5.8	+16.2	+0.2
	n.e.	sc.	sw.	m.f.w.	st.w.																				
				5	m																				
Nov. 17	-1 41.8	-1 25.9	-1 5.8	+16.2	+0.2																				

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Date Tuesday Nov 17-18

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
8450	HD 1075	00 99	30 59	1-23	F103-0	0 8	+11.0	9.19		2
<p>Wednesday Nov. 18/42</p> <p>Focus test outside thru lens $7^{\circ}-5^{\circ}$ - Focus set at 2362 for test.</p>										

Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
	31 13		7 14 15 1/2	<i>no use</i>
<i>In p.p. 80</i>	<i>Plateholder 3.</i>			

Date *Wednesday Apr. 18. 1914* L. No. 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
8450	H.D. 207636	21 45.3	69 41	I-25	F-103a-0	Set 008	11.6	17 45	18 25	4
8451	" 200265	21 56.9	74 31	"	"	"	11.6	18 35	19 45	1
8452	" 214710	22 35.0	74 51	"	"	"	11.4	17 49	18 37	2
8453	" 201861	23 30.6	71 05	"	"	"	11.4	20 41	21 25	1
8454	" 7359	21 07.0	71 13	"	"	"	11.3	21 20	22 00	1
8455	" 8961	01 11.4	70 57	"	"	"	11.3	22 30	23 16	1
8456	" 16458	02 33.4	81 01	"	"	"	11.3	23 23	00 03	2
8457	" 27164	03 45.8	71 31	"	"	"	11.3	00 17	00 55	1
8458	" 36776	04 02.6	71 52	"	"	"	11.3	00 59	01 43	1
8459	" 43747	06 25.4	43 46	"	"	"	11.3	01 51	02 29	1
8460	" 44835	06 50.0	70 57	"	"	"	11.3	02 33	03 15	1
8461	" 47979	06 36.1	53 24	"	"	"	11.3	03 10	04 35	1
<p>Friday morning:— Everything very wet in dome. Radiant spots faint in tube, direct on (west) iris, and greenhouse shutter connected about mirror. Job of stars later and after</p>										

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp.	REMARKS
0 11	W	69 53	1	6.42	A0	1½-1½-1½	Developed by Young. OK
1 20	W	74 47	1-2	7.82	K5	1½-1½-1½	
1 24	W	75 06	1-2	7.24	K5	1½-1½-1½	little weak
1 25	W	71 21	1-2	7.13	K0	1½-1½-1½	little weak
0 27	W	71 58	1-2-1-0	7.38	K0	1½-1½-1½	being unsteady weak
1 28	W	70 41	0	6.52	A0	1½-1½-1½	good
1 03	W	+81 13	0-1	6.92	K0	1½-1½-1½	good
0 53	W	+71 41	0-1	6.67	F0	1½-1½-1½	(little strong) fine
1 07	W	+72 01	0-1	6.73	G5	1½-1½-1½	being variable fine
0 30	E	+73 45	0	6.56	F2	1½-1½-1½	fine
0 16	E	+70 53	0-1-2	6.83	K0	1½-1½-1½	good
1 33	W	+53 23	1	7.38	K0	1½-1½-1½	clouds moving in from N.E. sky filled in 40

Thursday - cloudy - 50+ 110 P students visited lab.

	m.c.	sc.	S.W.	mt.w. s	st.w. m.
Nov. 20	-1 41.1	-1 28.6	+243	+32.1	+0.2
			Reset		

Date Saturday November 31-22, 1945 L.M. Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
2462	HD 203886	21 199	+24 16	S-25	E-103110	208 208	+41	17 39	19 39	4 20' V
2463	221113	23 24.1	+22 31	"	"	"	+40	19 42	21 02	1 40'
2464	1075	02 39.9	+3 59	"	"	"	+40	21 35	23 47	2 01' W
2465	15464	02 24.2	+3 32	"	"	"	+41	22 53	23 59	3 01' W
2466	32655	04 59.7	+13 02	"	"	"	+40	00 04	02 40	4 37E
2467	36040	05 23.8	+11 23	"	"	"	+41	00 44	01 39	5 55E
2468	97715	06 33.4	+24 11	"	"	"	+40	01 39	02 21	6 42E
2469	71467	06 33.3	+41 52	"	"	"	+40	07 26	08 52	7 26E
2470	56941	07 14.0	+42 50	"	"	"	+40	03 36	05 06	8 30E

Start delayed by clouds, cloudy at sunset, clear day.
 Focus set to 23.70
 North wind

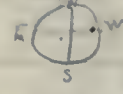
Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp	REMARKS
0 00	2 01 W	+24 18	2-1	7.42 KO	1 1/2 1 1/2 1 1/2	Light clouds, most of first half; then thinner. Fine
1 2	2 20 W	+22 44	1	7.45 KO	1 1/2 1 1/2 1 1/2	Light clouds remaining. Fine
2 7	2 20 W	+31 14	1-2	7.79 K5	1 1/2 1 1/2 - 1 1/2	Stage 21 ²⁰ - 22 ²⁰ Trouble with K.A. clamp was tel OK
3 5	0 17 W	+33 39	1	7.25 KO	1 1/2 1 1/2 1 1/2	not release until after 607 Fine
4 10	0 37 E	+43 06	1	6.55 F2	1 1/2 1 1/2 1 1/2	Full set tries. Fine
5 1	0 57 E	+41 25	1	7.09 KO	1 1/2 1 1/2 1 1/2	Fine
6 1	0 29 E	+24 39	1	6.90 F5	1 1/2 1 1/2 1 1/2	Fine
7 1	1 15 W	+41 52	1	7.32 KO	1 1/2 1 1/2 1 1/2	Seeing variable. Fine
8 1	1 35 W	+42 45	1	7.57 KO	1 1/2 1 1/2 1 1/2	" Fine

Comp. kills too heavy

Date Sunday November 22-23, 1942 H-No. 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
8471	HD 197249	20 37.4	+17 11	I-25	E-103a-0	Set 008	+2.5	17 25	18 27	1
8472	209112	21 55.9	+62 13	"	"	"	+2.5	18 37	19 47	2
8473	222618	22 37.1	+52 42	"	"	"	+2.5	19 50	20 36	3
8474	224784	23 55.5	+59 01	"	"	"	+2.6	20 39	21 35	4
8475	6497	01 00.9	+54 21	"	"	"	+2.5	21 38	22 34	1
8476	12005	01 52.8	+77 26	"	"	"	+2.4	22 39	23 33	2
8477	21179	03 20.0	+71 31	"	"	"	+2.5	23 39	01 19	3
8478	21563	04 51.8	+73 37	"	"	"	+2.5	01 23	02 27	4
8479	46509	06 28.8	+71 50	"	"	"	+2.5	02 42	03 16	5
8480	54070	07 02.4	+71 59	"	"	"	+2.6	03 36	04 44	6
8481	62140	07 51.4	+63 04	"	"	"	+2.6	04 50	05 16	7
Monday 23-24, 1942 No-										
sky clearing occasionally for short intervals from 1200:00 on Monday clouds still covering sky 10:30										

North wind

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS																		
5 ²¹	1 37 N	+17 20	0-1	7.27	KO	1 1/2 1 1/2 1 1/2 Light cirrus clouds at start.																		
7 ¹⁷	1 38 W	+62 24	1	7.51	M6	1 1/2 1 1/2 1 1/2 Time lost due to Home Turning being dead.																		
2 ³	1 36 W	+56 58	1	7.11	G5	1 1/2 1 1/2 1 1/2																		
2 ¹¹	1 26 W	+59 41	1-2	7.37	KO	1 1/2 1 1/2 1 1/2																		
5 ²⁴	1 19 W	+56 42	2	7.53	KO	1 1/2 1 1/2 1 1/2																		
3 ²⁵	1 25 W	+77 29	1-2	7.35	KO	1 1/2 1 1/2 1 1/2																		
5 ¹⁴	1 44 W	+71 39	2	7.18	M6	1 1/2 1 1/2 1 1/2																		
5 ¹⁷	1 30 W	+73 41	1-2	7.16	KO	1 1/2 1 1/2 1 1/2																		
5 ¹⁸	1 32 W	+71 50	1-2	6.85	G5	1 1/2 1 1/2 1 1/2																		
7 ¹⁰	1 27 W	+71 54	1-2	7.45	KO	1 1/2 1 1/2 1 1/2 One setting on H.D. 52030, found no bright stars.																		
10 ¹²	1 25 W	+62 58	1-2	6.49	M5	1 1/2 1 1/2 1 1/2 near center of area wide - checked R.H., time and sidereal clocks.  After comparing bright stars which were to be used in the field for its coordinates.																		
						Dec. 70° 52'																		
						<table border="0"> <tr> <td></td> <td>MC</td> <td>SC</td> <td>SW</td> <td>MT</td> <td>ST</td> </tr> <tr> <td>Nov. 23</td> <td>-1 41.5</td> <td>-1 32.5</td> <td>+24.5</td> <td>-18.9</td> <td>+0.1</td> </tr> <tr> <td></td> <td>rem. wt 0.2</td> <td>rem. wt 0.2</td> <td></td> <td>reset</td> <td></td> </tr> </table>		MC	SC	SW	MT	ST	Nov. 23	-1 41.5	-1 32.5	+24.5	-18.9	+0.1		rem. wt 0.2	rem. wt 0.2		reset	
	MC	SC	SW	MT	ST																			
Nov. 23	-1 41.5	-1 32.5	+24.5	-18.9	+0.1																			
	rem. wt 0.2	rem. wt 0.2		reset																				

Date *Friday, November 27-28, 1942* H-No *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
8482	HD 13522	02 06.9	+23 43	I-25	E-103a-0	Set 008	-09	20 55	21 55	4
	(Focus test - Outside the lens Focus at 23.77 ; 4 ⁵ + 6 ⁵ 10									
8483	HD 19121	02 59.5	+01 30	"	"	"	-1.0	22 21	23 01	1
	Sunday, Nov. 29-30, 1942 H - cloudy with sun									
	Tuesday, Dec. 4-5 Cloudy									
	Sunday, Dec. 6-7 Cloudy									

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
						Cloudy + snow flurries during day; clearing at sunset. Cloudy again before dark. Light snow. Alternating clear + cloudy in evening.
0 07 E		+23 56	1	7.19	K0 1 1/2 1/2 1/2	Very windy. Clouds - star gone. 2 ⁵ - 21 ¹⁵
		37		7.		
0 07 W		+01 37	1	7.05	K0 1 1/2 1/2 1/2	More clouds 23 00 - light snow 00 15 - still cloudy 01 00.

	m.c.	s.c.	s.w.	m.c.	s.c.	s.w.
Nov. 24	-1 40.5	-1 32.4	+24.2	-16.9	+0.2	
Nov. 25	-1 40.1	-1 33.2	+22.9	-17.2	+0.3	
Nov. 26	-1 39.9	-1 34.1	+18.0	-17.8	+0.3	
Nov. 27	-1 39.7	-1 34.9	+15.2	-21.8	+0.2	

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Date Monday, Dec. 7-8 No. 1 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
8181	H.D. 221293	23 25.8	38 06	1-25"	E-103c-0	Set .008	-00.2	18 39	19 55	2
8182	" 15157	02 21.3	26 33	"	"	"	-00.2	20 32	21 20	3
8186	" 23626	03 41.5	61 59	"	"	"	-00.3	21 25	22 11	4
8487	HD 49886	06 35.7	11 06	T 25	E-103c-0	.003	-02.1	01 25	02 45	1
8488	" 6552E	07 53.0	13 30	"	"	"	-02.1	05 40	06 59	2

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp.	REMARKS
5:15	1 15 W	+38 21	0	7.21	K0 1/2-1/2-1/2	clouds at sunset OK
6:16	0 16 E	+26 47	0+	7.36	K5 1/2-1/2-1/2	little wind
7:35	0 35 E	+32 32	1	6.79	P0 1/2-1/2-1/2	sky gets misty clouds moving in from N. OK sky again cleared up at midnight. Breaking later, then completely clear.
8:07	0 07 W	+11 04	1	7.78	Ma 1/2-1/2-1/2	little wind
9:00	0 00 N	+13 26	1-2	7.38	K5 1/2-1/2-1/2	clouds toward end of exp. sky falling in again.

	m.c.	s.c.	s.w.	m.T.W.	S.T.W.
Nov. 30	-1 38.1	-137.7	-38.6	+05.7	+0.2
	m.c.	s.c.	s.w.	m.T.W.	S.T.W.
Dec. 2	-1 37.8	-1 38.4	-38.2	+06.2	+0.1
	m.c.	s.c.	s.w.	m.T.W.	S.T.W.
Dec. 3	-1 37.4	-1 39.0	-35.4	+06.1	+0.1
	m.c.	s.c.	s.w.	m.T.W.	S.T.W.
Dec. 4	-1 38.4	-1 41.0	-39.0	+06.5	+0.1
	m.c.	s.c.	s.w.	m.T.W.	S.T.W.
Dec. 7.	-1 36.0	-1 41.6	-35.9	+03.7	+0.2

Date Monday, December 13-14, 1942 H-110 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
8493	HD 212047	22 16.4	+26 26	I-25	L-1000	210	-7.4	17 22	20 22	1
8494	} Focus test - outside the house	7575	01 10.7	+38 36	"	"	-7.4	20 06	21 06	2
8495		3013	02 22.3	+43 58	"	"	-7.5	21 13	22 13	3
8496		21218	03 18.4	+24 31	"	"	-7.5	22 17	23 27	4
8497	38527	05 41.4	+09 29	"	"	"	-7.9	23 33	00 49	5
Wednesday December 16/42										
8497 F	Focus test outside house base 7°-5° Focus set at 23:30 for test.									

Focus set to 23.85+

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS																		
20	2 54 W	+26 40	1-0	7.85	Ma. 1 1/2 1 1/2 1	Light clouds, 17 ⁴⁵ ; thick 18 ⁰⁵ - 18 ³⁰ ; clouds ^{set in} _{at 18³⁰}																		
21	1 04 W	+32 50	0-1	7.31	KO 1 1/2 1 1/2 1 1/2	setting 3 setting 9 Light clouds, just faint.																		
22	1 20 W	+44 12	1-0	7.28	G5 1 1/2 1 1/2																			
23	1 13 W	+04 12	0	7.08	F5 1 1/2 1 1/2 1 1/2																			
24	0 17 W	+09 29	0	6.67	G5 1 1/2 1 1/2 1 1/2	Haze - gradually getting thicker, so 10 - filled by 11:45 - still thick at 12:00																		
<table border="1"> <thead> <tr> <th></th> <th>mc.</th> <th>s.c.</th> <th>s.w.</th> <th>m.f.w. 8</th> <th>s.f.w. m.</th> </tr> </thead> <tbody> <tr> <td>Dec. 15</td> <td>-1 31.0</td> <td>-1 45.6</td> <td>-26.3</td> <td>+12.9</td> <td>-00.1</td> </tr> <tr> <td>Dec. 16</td> <td>-1 31.2</td> <td>-1 47.0</td> <td>-25.9</td> <td>+12.6</td> <td>+08.0</td> </tr> </tbody> </table>								mc.	s.c.	s.w.	m.f.w. 8	s.f.w. m.	Dec. 15	-1 31.0	-1 45.6	-26.3	+12.9	-00.1	Dec. 16	-1 31.2	-1 47.0	-25.9	+12.6	+08.0
	mc.	s.c.	s.w.	m.f.w. 8	s.f.w. m.																			
Dec. 15	-1 31.0	-1 45.6	-26.3	+12.9	-00.1																			
Dec. 16	-1 31.2	-1 47.0	-25.9	+12.6	+08.0																			
int	Temp. -10.2°C		Plate Holder 1																					

(01)

Date Wednesday Dec 16-17/42 L-No 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
8498	HD 222670	23 37.6	63 53	I-25	F-13-D	Set .028	-10.8	17 57	20 45	2
8499	" 17379	02 42.2	56 40	"	"	"	-10.8	20 02	22 42	3
8500	" 28277	04 00.9	59 40	"	"	"	-10.6	20 08	22 45	4
Friday Dec 18-19/42 -No										
Cloudy throughout day - clearing 11:30 PM. cloudy and clearing quite frequently thereafter - sky still unsettled 2:15 AM										
Sun day Dec 20-21 - H.										
thick haze, gradually thickening. occasional partly clear intervals; temp very low.										

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp.	REMARKS																																			
12:15	2 30 W	64 12	0	8.20 Ma	1 1/2 - 1 1/2 - 1 1/2	Focus set back to 23.85 weak																																			
12:45	0 40 W	56 53	0	6.75 F50	1 1/2 - 1 1/2 - 1 1/2	good																																			
1:01	27 W	59 47	0	7.41 Ma	1 1/2 - 1 1/2 - 1 1/2	clouds moving in from NW 23:00 EST - clouds getting thicker 23:30 - clouds out to 00:15 still cloudy 01:15 Difficult in north pier not working.																																			
						<table border="0"> <tr> <td></td> <td></td> <td>sc.</td> <td></td> <td>s.w.</td> <td><u>mtw.</u></td> <td><u>spw.</u></td> </tr> <tr> <td>Dec. 18.</td> <td>mc.</td> <td>-1 29.8</td> <td>-1 47.5</td> <td>-23.8</td> <td>+17.8</td> <td>+0.2</td> </tr> <tr> <td></td> <td>mc.</td> <td></td> <td>sc.</td> <td>s.w.</td> <td><u>mtw.</u></td> <td><u>spw.</u></td> </tr> <tr> <td>Dec. 21</td> <td></td> <td>-1 27.0</td> <td>-1 48.3</td> <td>-02.6</td> <td>711.1</td> <td>-0.1</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td>Reah</td> <td></td> <td>Reah</td> </tr> </table>			sc.		s.w.	<u>mtw.</u>	<u>spw.</u>	Dec. 18.	mc.	-1 29.8	-1 47.5	-23.8	+17.8	+0.2		mc.		sc.	s.w.	<u>mtw.</u>	<u>spw.</u>	Dec. 21		-1 27.0	-1 48.3	-02.6	711.1	-0.1					Reah		Reah
		sc.		s.w.	<u>mtw.</u>	<u>spw.</u>																																			
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	mc.		sc.	s.w.	<u>mtw.</u>	<u>spw.</u>																																			
Dec. 21		-1 27.0	-1 48.3	-02.6	711.1	-0.1																																			
				Reah		Reah																																			

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp.	REMARKS																								
	0 21 ^h	+48 42	3	6.68	FO	11 ^h 2-12-14	Cloudy during day - clearing 6:30 AM - but still quite hazy - sky improving 9:15 AM. - sitting in 8:55 AM - cloud out 9:10 - still cloudy 10 P.M.																								
							<table border="0"> <tr> <td></td> <td>nc.</td> <td>sc.</td> <td>s.w.</td> <td>m.f.w.^s</td> <td>2^m run</td> </tr> <tr> <td>Dec. 22</td> <td>-1 26.3</td> <td>-1 48.6</td> <td>-4.0</td> <td>+12.6</td> <td>+0.1</td> </tr> <tr> <td></td> <td>nc.</td> <td>sc.</td> <td>s.w.</td> <td>m.f.w.^s</td> <td>2^m run</td> </tr> <tr> <td>Dec. 23</td> <td>-1 25.8</td> <td>-1 48.8</td> <td>-4.5</td> <td>+12.1</td> <td>+0.1</td> </tr> </table>		nc.	sc.	s.w.	m.f.w. ^s	2 ^m run	Dec. 22	-1 26.3	-1 48.6	-4.0	+12.6	+0.1		nc.	sc.	s.w.	m.f.w. ^s	2 ^m run	Dec. 23	-1 25.8	-1 48.8	-4.5	+12.1	+0.1
	nc.	sc.	s.w.	m.f.w. ^s	2 ^m run																										
Dec. 22	-1 26.3	-1 48.6	-4.0	+12.6	+0.1																										
	nc.	sc.	s.w.	m.f.w. ^s	2 ^m run																										
Dec. 23	-1 25.8	-1 48.8	-4.5	+12.1	+0.1																										

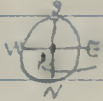
Date Friday, January 1-2, 1943 H-No Julian Day

0726

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
8502	HD 14221	02 12.9	+48 29	I-25	E-103a-0	31 008	-5.8	19 55	21 45	2
8503	18832	02 56.7	+44 53	"	"	"	-5.8	21 10	22 24	3
8504	25736	24 26.7	+25 11	"	"	"	-5.8	22 25	23 18	4
8505	40372	05 33.2	+01 49	"	"	"	-6.0	23 29	23 59	1
8506	45512	06 22.8	+10 23	"	"	"	-6.2	10 04	10 37	2
8507	51194	07 12.1	+23 09	"	"	"	-6.2	01 28	01 38	2
	} <i>arrived - outside shoulder 7^h 5^m</i>									

Clouds at dark; then clearing and clouding. Fairly good by 11 E -
 Had to remove ice from shutter rails, and from many of the dome
 turning wheels. Had to free up drive motion. p. 106

Ending Time
E.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
1 5 W	+48 43	0	6.68 F0	$1\frac{1}{2} - 1\frac{1}{2} - 1\frac{1}{2}$ } Focus set to 123.83 Light clouds; clearing
1 52 W	+5 08	0	7.35 K0	$1\frac{1}{2} - 1\frac{1}{2} - 1\frac{1}{2}$ } Sudden thick haze at 21 ²⁵ ; atom body visible 23 ²⁵ - 20 ⁴⁵
1 16 W	+12 17	0	6.77 F2	$1\frac{1}{2} - 1\frac{1}{2} - 1\frac{1}{2}$
0 31 W	+01 49	0	6.20 H.5	$1\frac{1}{2} - 1\frac{1}{2} - 1\frac{1}{2}$  H = 40335 (faster)
1 11 W	+10 31	0-1	7.19 K0	$1\frac{1}{2} - 1\frac{1}{2} - 1\frac{1}{2}$
0 42 W	+1 23	0-1	6.02 H0	$1\frac{1}{2} - 1\frac{1}{2} - 1\frac{1}{2}$ Hazy - sky very misty - 1 30 - clouds back 1 34 - snow flurries 02 30 m.c. SC SW January + -1 14.6 -1 54.5 +38.6 M.P.W. 5 +42.3 S.P.W. 2m +0.4

Date *Saturday January 2-3/42 - L:No* Julian Day *0727*

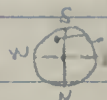
Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
8508	HD 28191	04 21.8	01 52	I-25	E-103a0	set .008	-5.5	21 35	22 43	1
8509	" 37784	05 36.0	22 37	"	"	"	-5.5	22 30	05 08	2
8510	" 47156	06 32.1	10 56	"	"	"	-5.6	00 09	01 33	3
8511	" 57078	07 28.9	23 07	"	"	"	-5.8	01 38	02 34	4
8512	" 75959	08 21	30 57	"	"	"	-5.8	02 38	03 58	5
8513	" 82670	09 28.8	28 53	"	"	"	-5.8	03 12	04 32	6
8514	" 89344	10 13.4	25 19	"	"	"	-5.8	04 31	05 47	7
8515	" 109345	12 25.9	33 57	"	"	"	-5.9	05 59	07 19	8

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Cloudy all of early evening, breaking occasionally later. At 20.³⁰ definitely clear

Ending Time
E.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp.	REMARKS
0 50 W	01 58	1-2	7.37	K ₀	1/2-1/2-1/2	fine
0 54 W	22 38	1-2	7.54	K ₂	1/2-1/2-1/2	fine
1 30 W	10 53	1-2	7.60	K ₀	1/2-1/2-1/2	ok
1 36 W	23 01	1-2	7.22	K ₅	1/2-1/2-1/2	ok got a bit brighter after
2 47 W	50 46	1-2	6.60	K ₀	1/2-1/2-1/2	fine but strong
1 29 N	23 44	1-2	7.61	K ₅	1/2-1/2-1/2	ok
2 10 W	25 51	1-2	7.60	K ₀	1/2-1/2-1/2	little red
1 19 W	33 48	1-2	7.37	K ₀	1/2-1/2-1/2	fine all night

W  brighter H.O. 109317

	m.c.	pc	sw.	m-sw	sw.
Jan. 5.	-1 12.6	-1 53.9	+39.8	+43.2	-0.1
	m.c.	sc.	sw.	m-sw.	sw.
Jan. 6.	-1 12.8	-1 55.1	+41.0	-16.6	+0.2

Rach

Mostly cloudy dewing day - sky very under the
 up until 11:15 P.M.

p. 110

Ending Time
E.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp	REMARKS
25W	+ 22 10	0	7-11	K2	1/2-1/2-1/2	with
29W	+ 03 25	0	6-80	A5	1/2-1/2-1/2	(faint line) with
57W	+ 22 29	0	5-82	A0	1/2-1/2-1/2	(faint line) <u>trc</u> with
04W	+ 10 58	0-1	6-55	A0	1/2-1/2-1/2	(faint line) <u>to</u> with
40W	+ 10 15	0	6-30	A0	1/2-1/2-1/2	(faint line) with
12W	+ 37 43	1	7-17	K0	1/2-1/2-1/2	with
10W	+ 25 47	0	7-40	K0	1/2-1/2-1/2	little with

Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp.	REMARKS																								
2 ⁰⁶ W	53 13	0	7.98	Ma	1/2-1/2-1/2																								
0 ⁵⁵ W	57 41	0	6.83	F5	1/2-1/2-1/2																								
	69 35	0	7.68	K0	1/2																								
					Clouds 21 ⁵⁵ -22 ²⁰ of mag. grown faint, noticed new formation of Saturn's ring dome, then noticed that Saturn was tilted up, by moon, slight suggestion of error, see below																								
					<table border="0"> <tr> <td></td> <td>m.e.</td> <td>s.e.</td> <td>s.w.</td> <td>m.w.</td> <td>s.w.</td> </tr> <tr> <td>Jan 8:</td> <td>-110.3</td> <td>-1 55.3</td> <td>-15.0</td> <td>-11.2</td> <td>-08.0</td> </tr> <tr> <td></td> <td></td> <td>Removed</td> <td>adv. 1m</td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td>wt 1.0</td> <td></td> <td></td> <td></td> </tr> </table>		m.e.	s.e.	s.w.	m.w.	s.w.	Jan 8:	-110.3	-1 55.3	-15.0	-11.2	-08.0			Removed	adv. 1m					wt 1.0			
	m.e.	s.e.	s.w.	m.w.	s.w.																								
Jan 8:	-110.3	-1 55.3	-15.0	-11.2	-08.0																								
		Removed	adv. 1m																										
		wt 1.0																											

113

Date Friday, January 8-9, 1943 H-M Julian Day 733

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
8525	H.D. 224870	23 56.3	+49 25	I-25	E107-0	set 418	-10.0	17 39	18 57	3 54
8526	115613	21 48.9	+20 32	"	"	"	-10.0	19 06	20 32	1 33
8527	18482	22 53.2	+40 38	"	"	"	-10.0	20 34	21 35	1 34
8528	25622	23 09.8	+30 45	"	"	"	-10.0	21 31	22 35	2 34
8529	21377	15 37.9	+43 07	"	"	"	-10.1	22 39	23 21	0 50
8530	40827	08 26.3	+19 24	"	"	"	-10.1	23 34	01 23	1 34
8531	75075	10 37.8	+57 26	"	"	"	-10.1	01 37	02 27	1 34
8532	69149	08 10.6	+54 26	"	"	"	-10.1	02 35	03 21	1 34
8533	22812	10 13.2	+49 55	"	"	"	-10.1	03 52	04 36	1 34

Focus set 23.90

114

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
	54 V	+49 41	0	7.36	K0	1 1/2 1 1/2 1 1/2 OK
	33 V	+40 25	0-1	7.57	K2	1 1/2 1 1/2 1 1/2 Focus lost due to RA change. Needs focusing for hand in. OK
	1 20 W	+40 49	1	7.14	K2	1 1/2 1 1/2 OK
	1 26 V	+53 54	1-2	7.42	K0	1 1/2 1 1/2 1 1/2 fine
	0 50 W	+40 10	2	7.18	K0	1 1/2 - 1 1/2 - 1 1/2 fine
	2 18 W	+59 25	2	8.07	K0	1 1/2 - 1 1/2 - 1 1/2 fine
	1 21 E	+57 14	2	7.31	F0	1 1/2 - 1 1/2 - 1 1/2 fine
	2 29 W	+54 20	2	7.58	K5	1 1/2 - 1 1/2 - 1 1/2 fine
	1 5 W	+48 42	2	7.15	K0	1 1/2 - 1 1/2 - 1 1/2 may getting dimmy - OK EST. - looking in. fine

loaded sub 04 40

	mc.	sc.	Resch	Resch
			SW.	m-Tw. s-Tw.
Jan 11.	-1 07.7	-01 52.8	+07.8	+08.5 +8.1

Focus set 23.80

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp	REMARKS
7 43	25 W	7 40	0	7.44	K0	1/2-1/2-1/2	
8 41	12 ^m W	+0 02	0	7.10	K0	1/2-1/2-1/2	wide double line
	5-1 ^m W	6 01	0-1	7.10	B5	1/2-1/2-1/2	wide double line
		22 14	0-1	6.16	A0	1/2-	clouds -
							Jan 13 ^{mc} -1 06.3 ^{sc} -1 06.6 ^{sw} 1 08.6 ^{mn} 1 09.1 ^{tw} 1 09.2

Date Wednesday Jan 13-14 - 1910

Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	
527 F	H.D. 46101	CG 263	55 26	I-25"	F103a O	set .008	016	23 30	00 52 4	
	Focus test - outside the lens				7" 5"					
<p>Jan 15. L. Opened up and while focussing first star the image began fading, light clouds coming up from the west. Sky thickening. Sky quite thick at 21.⁰⁰ Closed up and left.</p>										

Focus set 23.85

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp.	REMARKS										
7:10	STW	755.25	0	7.53	KO 1121/212	sky filling in cccc - solid by 10:20 no signs of clearing @ 30 EST.										
Jan 15						<table border="0"> <tr> <td>mc.</td> <td>s.c.</td> <td>s.w.</td> <td>m.rw</td> <td>STW.</td> </tr> <tr> <td>-1 05.3</td> <td>-1 48.8</td> <td>+10.6</td> <td>+14.4</td> <td>+0.3</td> </tr> </table>	mc.	s.c.	s.w.	m.rw	STW.	-1 05.3	-1 48.8	+10.6	+14.4	+0.3
mc.	s.c.	s.w.	m.rw	STW.												
-1 05.3	-1 48.8	+10.6	+14.4	+0.3												
Jan 18						<table border="0"> <tr> <td>mc.</td> <td>s.c.</td> <td>s.w.</td> <td>m.rw</td> <td>STW.</td> </tr> <tr> <td>-1 02.7</td> <td>-1 45.6</td> <td>-01.1</td> <td>+00.1</td> <td>+00.0</td> </tr> </table>	mc.	s.c.	s.w.	m.rw	STW.	-1 02.7	-1 45.6	-01.1	+00.1	+00.0
mc.	s.c.	s.w.	m.rw	STW.												
-1 02.7	-1 45.6	-01.1	+00.1	+00.0												
Jan 19						<table border="0"> <tr> <td>mc</td> <td>sc</td> <td>Reach</td> <td>STW</td> <td>STW</td> </tr> <tr> <td>-1 01.8</td> <td>-1 44.5</td> <td>+01.1</td> <td>+01.1</td> <td>+01.1</td> </tr> </table>	mc	sc	Reach	STW	STW	-1 01.8	-1 44.5	+01.1	+01.1	+01.1
mc	sc	Reach	STW	STW												
-1 01.8	-1 44.5	+01.1	+01.1	+01.1												
Jan 20						<table border="0"> <tr> <td>mc</td> <td>sc</td> <td>sw</td> <td>STW</td> <td>STW</td> </tr> <tr> <td>-1 11.0</td> <td>-1 42.7</td> <td>+07.5</td> <td>+01.1</td> <td>+2.1</td> </tr> </table>	mc	sc	sw	STW	STW	-1 11.0	-1 42.7	+07.5	+01.1	+2.1
mc	sc	sw	STW	STW												
-1 11.0	-1 42.7	+07.5	+01.1	+2.1												
Jan 21						<table border="0"> <tr> <td>mc</td> <td>sc</td> <td>sw</td> <td>STW</td> <td>STW</td> </tr> <tr> <td>0 59.8</td> <td>-1 42.3</td> <td>+10.0</td> <td>+1.6</td> <td>+0.2</td> </tr> </table>	mc	sc	sw	STW	STW	0 59.8	-1 42.3	+10.0	+1.6	+0.2
mc	sc	sw	STW	STW												
0 59.8	-1 42.3	+10.0	+1.6	+0.2												
Jan 22						<table border="0"> <tr> <td>mc.</td> <td>s.c.</td> <td>s.w.</td> <td>STW</td> <td>STW</td> </tr> <tr> <td>-0 59.0</td> <td>-1 41.4</td> <td>+06.9</td> <td>+0.1</td> <td>+0.2</td> </tr> </table>	mc.	s.c.	s.w.	STW	STW	-0 59.0	-1 41.4	+06.9	+0.1	+0.2
mc.	s.c.	s.w.	STW	STW												
-0 59.0	-1 41.4	+06.9	+0.1	+0.2												
Jan 25						<table border="0"> <tr> <td>mc</td> <td>sc.</td> <td>Reach</td> <td>STW</td> <td>STW</td> </tr> <tr> <td>-0 59.1</td> <td>-1 44.9</td> <td>+19.9</td> <td>+19.9</td> <td>+0.2</td> </tr> </table>	mc	sc.	Reach	STW	STW	-0 59.1	-1 44.9	+19.9	+19.9	+0.2
mc	sc.	Reach	STW	STW												
-0 59.1	-1 44.9	+19.9	+19.9	+0.2												
Jan 26						<table border="0"> <tr> <td>mc</td> <td>sc</td> <td>sw</td> <td>STW</td> <td>STW</td> </tr> <tr> <td>-0 55.1</td> <td>-1 36.7</td> <td>+00.2</td> <td>-16.9</td> <td>+0.1</td> </tr> </table>	mc	sc	sw	STW	STW	-0 55.1	-1 36.7	+00.2	-16.9	+0.1
mc	sc	sw	STW	STW												
-0 55.1	-1 36.7	+00.2	-16.9	+0.1												
Jan 27						<table border="0"> <tr> <td>mc</td> <td>sc</td> <td>sw</td> <td>STW</td> <td>STW</td> </tr> <tr> <td>-0 54.4</td> <td>-1 35.5</td> <td>+00.4</td> <td>75.6</td> <td>+0.0</td> </tr> </table>	mc	sc	sw	STW	STW	-0 54.4	-1 35.5	+00.4	75.6	+0.0
mc	sc	sw	STW	STW												
-0 54.4	-1 35.5	+00.4	75.6	+0.0												

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Date *Wednesday, January 29, 1913 L-16* 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
8537	H.D. 16024	02 29.4	65 19	I-25	E-103a-O	Set 008	-04.5	18 10	19 20	1
8538	" 21004	03 18.3	53 35	"	"	"	-04.5	19 29	20 25	2
	<i>Focus fixed</i>		<i>Outside</i>	<i>through</i>	<i>base</i>					

ending Time
E.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp.	REMARKS
0 50 W	65 31	0	7.07	Ko	$1\frac{1}{2}-1\frac{1}{2}-1\frac{1}{2}$	Focus was 23.85
1 14 W	53 45	0	6.67	Fo	$1\frac{1}{2}-1\frac{1}{2}-1\frac{1}{2}$	Reset on this plate to 23.81. Haze and clouds on latter part of exposure. Sky filling in solid. Thick at 22:00
					7s 5s	
						<div style="display: flex; justify-content: space-around; font-size: small;"> m.e. s.e. s.w. m.w. s.z.w. </div> <div style="display: flex; justify-content: space-around; font-size: small;"> Jan 28 -0 536 -1 34.9 -02.0 -14.4 0.0 </div>

Ending Time I.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp.	REMARKS
	1 40 W	64 06	1-2	7.75	K5	1/2-1/2-1/2 Little-wash
	1 51 W	68 23	1	7.41	K0	1/2-1/2-1/2 Fine
	1 44 W	68 28	1	7.40	K0	1/2-1/2-1/2 North East wind! Fine Strong
	1 39 W	39 07	1-2	7.48	K0	1/2-1/2-1/2 Fine
	1 26 W	71 55	1	7.46	K0	1/2-1/2-1/2 Seeing variable Fine
	1 28 W	54 05	0	6.94	F8	1/2-1/2-1/2 Strong
	1 21 W	49 06	1	7.20	G5	1/2-1/2-1/2 Little Strong
	0 21 W	54 27	1-2	5.90	A2	1/2-1/2-1/2 much fainter than brighter than comp. T Too Strong
	0 22 W	61 30	1-2	7.46	K0	1/2-1/2-1/2 ok Strong
	0 23 W	60 38	1	6.46	F0	1/2-1/2-1/2 Too strong
						<div style="display: flex; justify-content: space-around;"> nc sc sw </div> <div style="display: flex; justify-content: space-around;"> Feb. 1 -196 -1299 +053 </div> <div style="display: flex; justify-content: space-around; margin-top: 5px;"> mag size </div> <div style="display: flex; justify-content: space-around;"> 100 100 </div>

Focus set 23.75 +

124

Clouds for awhile after sunset

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp	REMARKS																																				
5:52	42 W	57 50	0.1	5.79	A0	1/2-1/2-1/2 gave exposure twice that calculated for ^{wreck} Oseang																																				
5:56	42 W	54 40	0.1	6.70	F5	1/2-1/2-1/2 ^{wreck}																																				
5:58	23 W	73 14	0	5.76	A0	1/2-1/2-1/2 ^{little wreck}																																				
5:59	48 W	56 56	0	6.44	A2	1/2-1/2-1/2																																				
6:00	47 W	13 32	0	7.25	K0	1/2-1/2-1/2 they suddenly blanketing out ^{at 12:00} Stayed thick, closed up																																				
						<table border="1"> <thead> <tr> <th></th> <th>mc.</th> <th>sc.</th> <th>sw.</th> <th>m.w.</th> <th>st.w.</th> </tr> </thead> <tbody> <tr> <td>1943 Feb. 3</td> <td>-47.6</td> <td>-127.2</td> <td>+05.1</td> <td>201</td> <td>+600.1</td> </tr> <tr> <td></td> <td>mc.</td> <td>sc.</td> <td>sw.</td> <td>m.w.</td> <td>st.w.</td> </tr> <tr> <td>Feb 4</td> <td>-47.0</td> <td>-126.9</td> <td>+02.6</td> <td>+2.8</td> <td>100.0</td> </tr> <tr> <td></td> <td>mc.</td> <td>sc.</td> <td>sw.</td> <td>m.w.</td> <td>st.w.</td> </tr> <tr> <td>Feb. 5</td> <td>46.2</td> <td>125</td> <td>+00.1</td> <td>1.7</td> <td>100.1</td> </tr> </tbody> </table>		mc.	sc.	sw.	m.w.	st.w.	1943 Feb. 3	-47.6	-127.2	+05.1	201	+600.1		mc.	sc.	sw.	m.w.	st.w.	Feb 4	-47.0	-126.9	+02.6	+2.8	100.0		mc.	sc.	sw.	m.w.	st.w.	Feb. 5	46.2	125	+00.1	1.7	100.1
	mc.	sc.	sw.	m.w.	st.w.																																					
1943 Feb. 3	-47.6	-127.2	+05.1	201	+600.1																																					
	mc.	sc.	sw.	m.w.	st.w.																																					
Feb 4	-47.0	-126.9	+02.6	+2.8	100.0																																					
	mc.	sc.	sw.	m.w.	st.w.																																					
Feb. 5	46.2	125	+00.1	1.7	100.1																																					

Date *Friday February 5-6, 1943 H-M* Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
8554	HD 16467	12 33.4	+03 01	I-25	E-13a0	^{5x} 0.5	+2.8	18 10	19 06	1
8555	24154	03 45.7	+21 44	"	"	"	+2.9	19 09	20 23	2
8556	34332	05 11.6	+40 21	"	"	"	+2.8	20 26	21 26	3
8557	41626	06 01.3	+41 24	"	"	"	+3.0	21 30	22 40	4
8558	52597	07 01.7	+33 58	"	"	"	+2.9	22 48	00 17	5
8559	78234	09 02.0	+32 57	"	"	"	+2.8	00 26	01 20	6
8560	89319	10 13.2	+48 55	"	"	"	+2.9	01 35	03 27	7
From tent 7-5 outside show house										

Must use center as focus point in straight tube. Check both.

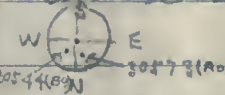
Time lost at start fixing Cass focus motor - one wire loose +

p126

Trans set 23.72:

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS												
19 ⁰⁰	1 14 W	+03 13	1-2	7.15	G5	1 1/2 1 1/2 1 1/2 Light haze & ground fog. OK												
19 ⁰⁵	1 18 W	+21 52	1-2	7.60	G0	1 1/2 1 1/2 1 1/2 Very prominent + godward light 18 ⁵⁰ - 19 ⁵⁰ fine												
19 ¹⁰	0 56 W	+40 25	2-1	7.32	K0	1 1/2 1 1/2 1 1/2 seeing becoming better. OK												
19 ¹⁵	1 3 W	+41 13	1	7.42	K0	1 1/2 1 1/2 1 1/2 fine												
19 ²⁰	1 57 W	+23 55	1-0	7.07	K0	1 1/2 1 1/2 1 1/2 fine												
19 ²⁵	1 10 W	+32 46	1-0	6.67	F2	1 1/2 1 1/2 1 1/2 time lost as R.H. clamp would not close. fine												
19 ³⁰	1 56 W	+48 42	0	7.15	K0	1 1/2 1 1/2 1 1/2 seeing very unsteady - by getting ^{little} ^{more} ^{steady} ^{seeing} ^{of} ^{the} ^{star} ^{on} ^{slit} ^{fading} ^{out} ^{quite} ^{frequently} - lost completely 03 15												
						<table border="0"> <tr> <td></td> <td>mc.</td> <td>sc.</td> <td>SW</td> <td>M. S. M.</td> <td></td> </tr> <tr> <td>Feb 8</td> <td>440</td> <td>1 22</td> <td>1015</td> <td>+20.1</td> <td>1010.</td> </tr> </table>		mc.	sc.	SW	M. S. M.		Feb 8	440	1 22	1015	+20.1	1010.
	mc.	sc.	SW	M. S. M.														
Feb 8	440	1 22	1015	+20.1	1010.													

Focus set 2378

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp.	REMARKS
19 32	0 02 W	+01 44	0	7.12	Ko	$1\frac{1}{2}-1\frac{1}{2}-1\frac{1}{2}$ time lock with R.A. clamp! - seeing variable!! fine
20 55	1 05 W	+03 29	1	7.20	Ko	$1\frac{1}{2}-1\frac{1}{2}-1\frac{1}{2}$  fine
21 01	1 28 W	+04 24	1-0	7.12	Ko	$1\frac{1}{2}-1\frac{1}{2}-1\frac{1}{2}$ seeing variable fine
22 31	1 54 W	+05 36	0	7.00	Q5	$1\frac{1}{2}-1\frac{1}{2}-1\frac{1}{2}$ some haze fine
23 01	0 52 W	+05 53	0-1	7.31	Ko	$1\frac{1}{2}-1\frac{1}{2}-1\frac{1}{2}$ fine
23 07	1 13 W	43 22	1-2	6.91	Fo	$1\frac{1}{2}-1\frac{1}{2}-1\frac{1}{2}$ OK
23 07	1 45 W	65 51	1	6.59	Fo	$1\frac{1}{2}-1\frac{1}{2}-1\frac{1}{2}$ OK
23 07	1 58 W	50 29	1	7.38	Ko	$1\frac{1}{2}-1\frac{1}{2}-1\frac{1}{2}$ strong OK
						7.55
						Focus little short?

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Date Tuesday Feb 9-10

Y-L

Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
8569	HD 21335	03 21.4	18 25	I-25	E 103 a-O	008	-1.8	6 22	7 10	4
8570	HD 31411	04 50.6	5 15	"	"	"	-2.0	7 15	7 55	1
8571	HD 32263	04 56.7	00 34	"	"	"	-2.0	7 59	8 49	2
8572	HD 39775	05 49.6	00 57	"	"	"	-1.9	8 54	9 54	3

Monday Feb 15-16 /43 No-L

On opening, temp of spectrometer found to be -18.2°C
and this could not be accommodated by the Helium
Bridge.

Focus set 23.78

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp	REMARKS																																																																								
7:00	47 W	18 34	1	6.51	Az	1/2-1/2-1/2 haze.																																																																								
7:55	01 ^m W	5 19	1-0	6.59	AO	1/2-1/2-1/2																																																																								
8:49	50 W	+0 38	1-2-1	7.18	KO	1/2-1/2-1/2																																																																								
9:54	103W	0 58	1-0	7.23	KO	1/2-1/2-1/2 haze (Thick)																																																																								
						<table border="1"> <thead> <tr> <th></th> <th>mc</th> <th>sc</th> <th>sw</th> <th>m.f.w.</th> <th>s.f.w.</th> </tr> </thead> <tbody> <tr> <td>Feb-10</td> <td>-41.9</td> <td>-1 19.9</td> <td>+02.0</td> <td>+06.3</td> <td>-0.1</td> </tr> <tr> <td></td> <td>mc</td> <td>sc</td> <td>sw</td> <td>m.f.w.</td> <td>s.f.w.</td> </tr> <tr> <td>Feb-11</td> <td>-41.2</td> <td>-1 18.8</td> <td>+02.3</td> <td>+05.8</td> <td>+00.1</td> </tr> <tr> <td></td> <td>mc</td> <td>sc</td> <td>sw</td> <td>m.f.w.</td> <td>s.f.w.</td> </tr> <tr> <td>Feb-12</td> <td>-40.3</td> <td>-1 17.7</td> <td>+02.5</td> <td>+06.8</td> <td>+00.1</td> </tr> <tr> <td></td> <td>mc</td> <td>sc</td> <td>sw</td> <td>m.f.w.</td> <td>s.f.w.</td> </tr> <tr> <td>Feb-15</td> <td>-38.0</td> <td>-1 14.5</td> <td>-00.1</td> <td>00.0</td> <td>+00.0</td> </tr> <tr> <td></td> <td>mc</td> <td>sc</td> <td>sw</td> <td>m.f.w.</td> <td>s.f.w.</td> </tr> <tr> <td>Feb-16</td> <td>-36.9</td> <td>-1 13.4</td> <td>-00.2</td> <td>+01.1</td> <td>+00.3</td> </tr> <tr> <td></td> <td>mc</td> <td>sc</td> <td>sw</td> <td>m.f.w.</td> <td>s.f.w.</td> </tr> <tr> <td>Feb-17</td> <td>-36.0</td> <td>-1 12.4</td> <td>-01.1</td> <td>+01.5</td> <td>+00.2</td> </tr> </tbody> </table>		mc	sc	sw	m.f.w.	s.f.w.	Feb-10	-41.9	-1 19.9	+02.0	+06.3	-0.1		mc	sc	sw	m.f.w.	s.f.w.	Feb-11	-41.2	-1 18.8	+02.3	+05.8	+00.1		mc	sc	sw	m.f.w.	s.f.w.	Feb-12	-40.3	-1 17.7	+02.5	+06.8	+00.1		mc	sc	sw	m.f.w.	s.f.w.	Feb-15	-38.0	-1 14.5	-00.1	00.0	+00.0		mc	sc	sw	m.f.w.	s.f.w.	Feb-16	-36.9	-1 13.4	-00.2	+01.1	+00.3		mc	sc	sw	m.f.w.	s.f.w.	Feb-17	-36.0	-1 12.4	-01.1	+01.5	+00.2
	mc	sc	sw	m.f.w.	s.f.w.																																																																									
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Feb-12	-40.3	-1 17.7	+02.5	+06.8	+00.1																																																																									
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Feb-16	-36.9	-1 13.4	-00.2	+01.1	+00.3																																																																									
	mc	sc	sw	m.f.w.	s.f.w.																																																																									
Feb-17	-36.0	-1 12.4	-01.1	+01.5	+00.2																																																																									

(3)

Date Wednesday Feb 17-18/1931 No 1 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
8573	H.D. 32039	04 55.3	03 28	I-25	E-103a-0	Set 008	-10.4	18 45	20 07	4
8574	" 32040	"	"	"	"	"	-10.4	20 08	21 04	1
8575	" 42807	06 09.7	10 40	"	"	"	-10.5	21 13	22 33	2
8576	" 70013	08 14.6	09 15	"	"	"	-10.7	22 38	23 46	3
8577	" 85505	09 47.4	00 33	"	"	"	-10.6	23 52	01 14	4
8578	" 90472	10 21.6	19 52	"	"	"	-10.7	01 24	02 46	
8579	" 108771	12 22.6	07 10	"	"	"	-10.7	02 54	04 25	

Focus test outside of lens done 7^h-5^h

Sunday - Came up morning mirror clear, made good observations with 10" telescope. Switch a few times at night, can't sleep to start with. Had dinner, some bottles here too, but just the usual. 1 bottle free.

Monday for 2 hours PM

Sunday Feb 21-22 Light haze at sunset, started to clear but clouded up again. Still there 9³⁰ pm.

Focus set at 23.90

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp.	REMARKS												
20 09	0 40 W	+03 32	0	6.95	A0	1/2-1/2-1/2 Preceding star of pair good												
04	1 38 W	" "	0	6.63	A0	1/2-1/2-1/2 Following " " " good												
20	1 54 W	+10 39	0-1	7.24	G5	1/2-1/2-1/2												
23 6	1 31 W	+04 06	0-1	7.07	G5	1/2-1/2-1/2												
24	0 57 W	+00 21	1	7.29	K0	1/2-1/2-1/2												
24	1 24 W	+19 38	1-2.1	7.29	K0	1/2-1/2-1/2 trouble with drive motor - frequently would stop												
24	1 34 W	+08 56	1-0	7.42	K0	1/2-1/2-1/2 they getting dizzy												
						<p style="color: red;">View from the back of the tent</p> <table border="0"> <tr> <td></td> <td>nc</td> <td>sc.</td> <td>s.w.</td> <td>n. s. w.</td> <td>W</td> </tr> <tr> <td>Feb 19</td> <td>-33.4</td> <td>-1 09.3</td> <td>+02.2</td> <td>+08.1</td> <td>+00.3</td> </tr> </table>		nc	sc.	s.w.	n. s. w.	W	Feb 19	-33.4	-1 09.3	+02.2	+08.1	+00.3
	nc	sc.	s.w.	n. s. w.	W													
Feb 19	-33.4	-1 09.3	+02.2	+08.1	+00.3													
						<p>Came up Sat. Feb 20-21 - Telescope still very well 8 PM</p> <p>condition of telescope unchanged 11-12 PM</p> <table border="0"> <tr> <td></td> <td>nc</td> <td>s.s.</td> <td>s.w.</td> <td>W</td> <td>W</td> </tr> <tr> <td>Feb 22</td> <td>-30.9</td> <td>-1 05.5</td> <td>+10.3</td> <td>+12.0</td> <td>+00.4</td> </tr> </table>		nc	s.s.	s.w.	W	W	Feb 22	-30.9	-1 05.5	+10.3	+12.0	+00.4
	nc	s.s.	s.w.	W	W													
Feb 22	-30.9	-1 05.5	+10.3	+12.0	+00.4													

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Date Monday Feb. 22-23/43 No-1 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
8580	H.D. 28736	04 26.7	05 11	1-25"	E-103a-0	Set, .008	+04.7°C	18 43	19 23	3
8581	" 38529	05 14	01 09	"	"	"	+04.6	19 26	20 16	4
8582	" 40956	05 57.1	03 27	"	"	"	+04.7	20 52	22 18	1
Focus Best - outside - low base 7 ^h -5 ^m										
Washed around, sky mostly got dejected, used some Lagomark										

Focus set 23.70

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp.	REMARKS												
	0 15W	+05 17	1-2+	6.77	F2	1 1/2 - 1 1/2 - 1 1/2 Light west wind - clouds rolling in ^{fine}												
	0 24W	+11 09	1-2	6.92	F5	1 1/2 - 1 1/2 - 1 1/2 sky quite hazy 19.45-20.00 OK 22.15												
	0 2W	+63 28	2-3	7.49	K0	1 1/2 - 1 1/2 - 1 1/2 fading in again 20.45 - still <u>very</u> murky OK												
						focus good												
						<table border="0"> <tr> <td></td> <td>m.c.</td> <td>S.C.</td> <td>S.W.</td> <td>M.T.W.</td> <td>S.T.W.</td> </tr> <tr> <td>Feb 24</td> <td>-29.0</td> <td>-00.9</td> <td>-00.7</td> <td>112.0</td> <td>+0.4</td> </tr> </table>		m.c.	S.C.	S.W.	M.T.W.	S.T.W.	Feb 24	-29.0	-00.9	-00.7	112.0	+0.4
	m.c.	S.C.	S.W.	M.T.W.	S.T.W.													
Feb 24	-29.0	-00.9	-00.7	112.0	+0.4													

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Date Feb 24-25 Wednesday

Y- No

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
8583	HD 33946	5 08.7	00 26	I 25	E-103a 0	008	+1.9	18 35	20 09	2
8584	HD 38545	5 41.5	14 28	"	"	"	+1.6	20 15	20 37	3
8585	HD 45357	6 21.8	0 54	"	"	"	+1.6	20 41	21 25	4
8586	HD 56031	7 10.3	8 10	"	"	"	+1.7	21 30	22 34	1
8587	HD 73599	8 34.1	8 22	"	"	"	+1.5	22 39	00 07	2
8588	HD 90125	10 19.1	2 42	"	"	"	+1.5	00 38	02 08	3
8589	HD 118709	12 13.5	9 18	"	"	"	+1.3	02 49	04 17	4
8588 F	Exposure test - Outside New York 7 ^h - 5 ^h									

Focus Set 28.72

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp.	REMARKS
20 09	57 W	+00 30	1-0	7.6	K2 $1\frac{1}{2}-1\frac{1}{2}-1\frac{1}{2}$	work
20 37	52 W	14 30	1-0	5.73	A2 $1\frac{1}{2}-1\frac{1}{2}-1\frac{1}{2}$	little work
21 25	1 h W	+00 51	1-0	6.51	A0 $1\frac{1}{2}-1\frac{1}{2}-1\frac{1}{2}$	too much
22 32	1 21 W	+8 03	1	7.32	M6 $1\frac{1}{2}-1\frac{1}{2}-1\frac{1}{2}$	little work
	50 W	+8 12	1-0	7.49	K0 $1\frac{1}{2}-1\frac{1}{2}-1\frac{1}{2}$	seeing variable fair
	2 23 W	+02 40	1-0	7.43	K0 $1\frac{1}{2}-1\frac{1}{2}-1\frac{1}{2}$	Clouds 00 55 - 01 30 work
	1 21 W	+03 57	0	6.56	A0 $1\frac{1}{2}-1\frac{1}{2}-1\frac{1}{2}$	lots of clouds 03 00 - filling in rapidly - 2 14 - 8589 had only about 10 minutes good exposure. signs of clearing as usual.

Focus set 28.72

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Date *Thursday, February 25-26/43.*

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
8589	H.D. 29606	04 34.7	59 20	I 25	E-103 _{ca} -0	scf 008	-4.3	19 ⁰⁰	20 ³⁰	1 54 W
<i>Friday, February 26-27, 1943</i>										
<i>cloudy with snow.</i>										

ending Time
E.S.T.Hour Angle
End

Declination

Seeing

Ptg. Mag.

Comp

REMARKS

154 W

59 24

0

6.61

A3

1 $\frac{1}{2}$ -1 $\frac{1}{2}$ -1 $\frac{1}{2}$

Sky slowly filling in toward end
of exp.

	mc	sc.	sw.	MTW	STW
Feb. 26	-26.8	+03.2	-01.7	+17.1	+0.5 ^m

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Date *Monday, March 1-2/43* No-*L* Julian Day *2430785*

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	
8592	H.D. 39685	05 49.0	+03 13	1-25"	F-103a-D	^{set} .008	-04.6°C	19 22	21 12	4	1 40 W
8593	" 60357	07 22.0	+03 35	"	"	"	-04.7	21 17	21 53	1	41 W
8594	" 71095	08 20.4	+02 27	"	"	"	-04.9	21 57	23 27	2	23 W
8595	" 78712	09 04.6	31 23	"	"	"	-05.0	23 32	01 40	3	25 W
8596	" 101151	11 33.3	34 12	"	"	"	-04.9	01 45	03 35	4	19 W
	<i>focus lost</i>										<i>Outward through lens</i>

mostly cloudy during day - snow late afternoon -
clearing after sunset - very strong N.W. wind

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	comp.	REMARKS												
2:04	1 40W	+03 14	1-0	7.55	Ko 1 1/2-1 1/2-1 1/2	Focus set 23.83												
2:51	0 41W	+03 31	0	5.82	AO 1 1/2-1 1/2-1 1/2	Full moon												
3:27	1 23W	+02 19	0	6.91	Ko 1 1/2-1 1/2-1 1/2	inside obscuring somewhat!												
4:10	2 CRW	31 10	0	?	Mc 1 1/2-1 1/2-1 1/2	Full moon												
5:25	2 19W	33 56	0	7.43	Ke 1 1/2-1 1/2-1 1/2 7' 5"	sky slowly thickening toward end of exposure. OK												
						from a little st longer												
						inside of planet's orbit means few stars												
						has made planet												
						<table border="1"> <tr> <td></td> <td>m.c.</td> <td>sc.</td> <td>sw.</td> <td>m T_g</td> <td>S₁ m</td> </tr> <tr> <td>Mar. 3</td> <td>-22.4</td> <td>+08.5</td> <td>1.2</td> <td>-02.1</td> <td>+00.1</td> </tr> </table>		m.c.	sc.	sw.	m T _g	S ₁ m	Mar. 3	-22.4	+08.5	1.2	-02.1	+00.1
	m.c.	sc.	sw.	m T _g	S ₁ m													
Mar. 3	-22.4	+08.5	1.2	-02.1	+00.1													

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Date Mar 3-4 1943 WED Y- No Julian Day 2430787

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
8597	HD 40282	05 527	+1 13	1-25	F103a-O	010	-11.2	18 47	20 31	1
8598	62264	7 380	0 26	"	"	"	-11.3	20 37	22 07	2
8599	63889	7 46.1	19 35	"	"	"	-11.5	22 13	23 41	3
8600	85709	9 48.5	06 26	"	"	"	-11.7	23 50	02 26	4
8601	115709	13 13.8	04 13	"	"	"	-11.7	02 43	04 03	1
Focus test - outside thin base 7 ^h - 5 ^s										

Thursday March 4-5 H-No

Sky cloudy during early evening - clearing (hazy)
 about 11 P.M. - clouded over again 12:30 - very
 high N.W. wind

Sept focus which was about 23.85

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp	REMARKS
20:31	1 02 W	1 13	0	7.56	K2	$1\frac{1}{2}-1\frac{1}{2}-1\frac{1}{2}$	OK
22:07	53 W	0 20	0	7.14	B5	$1\frac{1}{2}-1\frac{1}{2}-1\frac{1}{2}$	Temp m done 0° at 8 ^h 40 OK
23:41	2 20 W	19 29	0	7.13	K0	$1\frac{1}{2}-1\frac{1}{2}-1\frac{1}{2}$	-2" 12 00 (brrr!) OK
02:20	3 03 W	0 6 15	0	7.62	Ma	$1\frac{1}{2}-1\frac{1}{2}-1\frac{1}{2}$	sky getting hazey 01:15 - 4" 02:00 Lib 00
01:03	1 15 W	0 4 01	0	6.56	A0	$1\frac{1}{2}-1\frac{1}{2}-1\frac{1}{2}$	clearing again 01:45 - hazey again 02:50 - 03:15 OK

Focus OK
 M.C. S.C. S.U. m. u. p. u.
 9 Mar 5 +20.6 +11.5 +10.9 +05.3 +0.3

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Date Julian Day

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

Hour Angle
End

Removed much light dry snow from telescope. Some
ice on rail of shutter opening.

p.148

Focus shortened slightly from 23.854 to 23.82(?)

Ending Time EST	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS												
06:22	1 42 W	+55 31	1	6.62	F0	1 1/2 1 1/2 1 1/2 } wind												
09:15	2 52 W	+44 22	1	7.72	K0	1 1/2 1 1/2 1 1/2 Image small but very unstable												
9:33	1 55 W	+13 37	1-2-1	7.45	Ma	1 1/2 1 1/2 1 1/2												
10:16	1 32 W	+09 50	1-0	5.98	A0	1 1/2 1 1/2 1 1/2												
10:33	1 45 W	+12 20	0	5.77	A	1 1/2 1 1/2 1 1/2												
						<p>Above temperature +3°F</p> <table border="1"> <tr> <td></td> <td>m.c.</td> <td>sc.</td> <td>su.</td> <td>m₃u</td> <td>ST₁₀₀</td> </tr> <tr> <td>Mar 8</td> <td>-17.6</td> <td>+16.6</td> <td>+09.4</td> <td>-8.4</td> <td>70.2</td> </tr> </table>		m.c.	sc.	su.	m ₃ u	ST ₁₀₀	Mar 8	-17.6	+16.6	+09.4	-8.4	70.2
	m.c.	sc.	su.	m ₃ u	ST ₁₀₀													
Mar 8	-17.6	+16.6	+09.4	-8.4	70.2													
						Faint cloud at upper center - N. N. E. 2 1/2												

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Date Tuesday March 8-9/43 No-L Julian Day 2430792

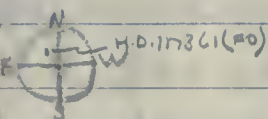
Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	
	} Test on open sky 5 minutes before & after ^{given} _{set.} exposure							18 40	18 50	1	
8607		H.D. 32518	04 58.7	69 30	1-25"	E-103a0	.008	-08.6°C	18 52	20 34	1
8608		" 52030	06 54.6	70 54	"	"	"	-08.5	20 43	22 23	2
8609		" 79517	09 09.5	74 26	"	"	"	-08.8	22 42	00 03	1
8610		" 93095	10 35E	57 26	"	"	"	-08.8	00 14	01 44	1
8611		" 10884	12 25.4	59 19	"	"	"	-08.9	01 09	03 05	1

Focus left at 23:22

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp	REMARKS																								
18:50					1 1/2 - 1 1/2 - 1 1/2																									
19:29	2 16 W	69 33	0	7.58	Ko	1 1/2 - 1 1/2 - 1 1/2 ← exposed to extreme hour angle limits																								
19:29	2 12 W	70 50	0-1	7.61	Ko	1 1/2 - 1 1/2 - 1 1/2 seeing variable - accidentally superimposed																								
19:32	1 40 W	74 17	1	7.32	Bs	1 1/2 - 1 1/2 - 1 1/2 first comp of 86 09 on 86 18																								
19:44	1 45 W	57 13	1-0	7.31	Fo	1 1/2 - 1 1/2 - 1 1/2 Binary																								
19:57	1 19 W	59 06	0-1	7.22	Ko	1 1/2 - 1 1/2 - 1 1/2 Grand binary thickening throughout - solid at 2000																								
						<table border="0"> <tr> <td></td> <td>MC</td> <td>SC</td> <td>SW.</td> <td>FW</td> <td>SW.</td> </tr> <tr> <td>Mar-10</td> <td>-15.2</td> <td>+19.7</td> <td>+12.5</td> <td>-028</td> <td>+0.4</td> </tr> <tr> <td></td> <td>MC.</td> <td>S.C.</td> <td>SW.</td> <td>mFW.</td> <td>SW.</td> </tr> <tr> <td>Mar-11</td> <td>-14.3</td> <td>+24.0</td> <td>+12.6</td> <td>-03.1</td> <td>+0.4</td> </tr> </table>		MC	SC	SW.	FW	SW.	Mar-10	-15.2	+19.7	+12.5	-028	+0.4		MC.	S.C.	SW.	mFW.	SW.	Mar-11	-14.3	+24.0	+12.6	-03.1	+0.4
	MC	SC	SW.	FW	SW.																									
Mar-10	-15.2	+19.7	+12.5	-028	+0.4																									
	MC.	S.C.	SW.	mFW.	SW.																									
Mar-11	-14.3	+24.0	+12.6	-03.1	+0.4																									

sky cloudy during evening but clearing off about 1 A.M.

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp.	REMARKS
						Focus set 23.74(?)
10:30	0 53W	+41 11	1-0	6.37	H3	1/2-1/2-1/2
11:05	1 39W	+50 52	1-0	6.85	H3	1/2-1/2-1/2
11:40	1 08W	+13 51	1-0	7.22	G5	1/2-1/2-1/2



Telescope mirror dirty. Plate in no focus plane.
 Haze & light clouds; mostly around horizon.
 Focus shortened slightly - 26.72(?)

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Ending Time
E.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
1 18 W	+46 53	1-2	6.76 F0/A	Brighter in part. (and still 8" comp. 23" PA 18" HD) ⁷
0 48 W	+02 30	1-2	5.58 A0	Brighter, n. p. of side pair. Slight haze
(1 52 W)	+02 41	1-2	7.74 M2	Clouding up; very noticeable from SW. Star ² weak ³⁵ 20 Star reappeared (part) 21 ⁵⁸ - 21 ⁰⁸
				Clouded up 21 ³⁰ - solid. Clear 22 ^h . Hazed 22 ^h . More haze; finally started in clear
2 25 W	+40 13	1-2	6.90 F2	zenith filling in shortly after beginning ⁴⁰ weak
1 04 W	+37 45	1-2	7.21 K2	of exposure - faint image fading out
1 52 W	+46 03	1	7.64 K5	frequently during exposures. Sky appears ⁷ weak ^{1.40}

1003 plate taken on previous date

Date Saturday 7 March 1943 - No Julian Day 2430797

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
8621	H.D. 99967	11 25.0	47 12	1-25"	E-103.0	set. .008	+03.9°C	00 21	01 45	3
8622	" 107904	12 18.9	43 05	"	"	"	+03.7	01 48	02 18	4
8623	" 111164	12 42.2	12 30	"	"	"	+02.6	02 23	02 51	1
8624	" 93075	10 39.8	57 26	"	"	"	+03.6	03 02	03 57	2
8625	" 139862	15 35.4	12 28	"	"	"	+03.6	04 16	05 12	3
8626	" 155646	17 07.8	+0 29	"	"	"	+03.4	05 19	06 05	7
Focus test - outside the base $7^{\circ} 5^{\circ}$										
<p>Sunday March 18-19/43 L-No Sky very murky during early evening - improving about 11.00 PM. but then filling slowly in again. Sky very thick 1 AM.</p> <p>Friday - March 19-20/43 H-No Rain</p>										

Cloudy during evening - breaking 11:30 - sky much improved but still hazy 12:15

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp.	REMARKS
01:45.3	1 25W	+47 00	1	7.49	K0	1/2-1/2-1/2 - hazy Focus set 23.70(E)
02:04	1 04W	+42 51	1-2	6.26	F0	1/2-1/2-1/2
02:21	1 14W	+12 17	1	6.13	A3	1/2-1/2-1/2
03:02	4 22W	+57 15	1	7.31	F0	1/2-1/2-1/2 * moved to cut exposure as star would not in RA.
03:22	0 42W	+12 16	1-2	7.09	B5	1/2-1/2-1/2 remain on slit even when making 7m
03:42	0 02W	+00 25	1	6.94	F5	1/2-1/2-1/2 of R.A. guiding & setting control (Hes?) 7m

dupl. method

	a	b	c	d	e
Mar 15	n.c.	S.C.	S.W.	MTW	STW
	-09.5	+27.0	-11.1	+04.8	+0.1
Mar 16		S.C.	S.W.	MTW	STW
	08.7	+28.5	+09.6	+03.5	0.2
Mar 17	n.c.	S.C.	S.W.	MTW	STW
	08.0	+27.8	+10.5	+02.5	+0.1
Mar 18	n.c.	S.C.	S.W.	MTW	STW
	07.1	+21.4	+08.2	+01.4	+0.1
Mar 19	n.c.	S.C.	S.W.	MTW	STW
	06.2	+32.9	+07.0	+02.9	+0.2

Cloudy during early evening - breaking 11:00
 scattered clouds up to 1:15 - definitely clear
 thereafter.

ending Time
 E.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp.
0 40 W	+02 35	1	7.35 Ko	1 1/2 - 1/2
0 06 W	+01 50	1	6.66 A3	1 1/2 - 1 1/2 - 1 1/2
1 21 W	+17 34	1	7.44 Ko	1 1/2 - 1 1/2 - 1 1/2

REMARKS

Focus set 28.79"

Date Sunday, March 21-22 H - Y Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
8630	HD 40394	05 53.4	+47 54	I-25	L-103a-0	51 010	+0.4	19 20	19 38	4
8631	40486	05 54.0	+48 58	"	"	"	+0.4	19 42	19 26	7
8632	HD 74591	08 29.7	+06 03	"	"	"	+0.3	21 57	22 25	2
8633	51225	09 18.1	+52 01	"	"	"	+0.1	22 30	22 12	3
	From list - entered this from 8-6									
8634	HD 118266	13 30.6	10 43	"	"	?	-2.8	2 09	3 02	4
8635	" 122742	13 58.6	11 16	"	"	005	-1.0	3 07	3 57	1
8636	" 135353	15 46.7	39 29	"	"	"	-1.0	4 01	5 21	1
	From list - entered this from 6-5									

Clouds late afternoon + early evening.
 most of sky still cloudy at start.

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Focus set : 23.75


Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
18	1 18 W	+47 54	1-2	5.68	A0	1 1/2 - 1 1/2 Light clouds, 2-4 wind.
20	2 02 W	+48 58	2	7.24	K0	1 1/2 - 1 1/2 - 1 1/2 Clouds 20 ²⁰ target.
						sky pretty well covered with sudden clouds from N.W.
22	1 20 W	+05 54	1-2	6.06	A2	1 1/2 - 1 1/2 - 1 1/2 Light clouds.
23	1 22 W	+52 48	1-2	6.93	G0	1 1/2 - 1 1/2
24	1 24 W	+10 29	2	7.46	K0	1/2 - 1/2 - 1/2 End not change focus
27	1 25 W	11 04	2	7.14	G5	1/2 - 1/2 - 1/2
5:11	1 32 W	37 00	2	7.80	K0	1/2 - 1/2 - 1/2

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Date Monday, March 22-23 No-4 Julian Day 24308.06

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	
8637	H.D. 48843	06 40.3	+12 49	I-25	E-103-0	set. .008	-0.7°C	19 10	19 56	3	
8638	" 61630	07 35.1	+13 59	"	"	"	-0.8	20 01	21 29	4	
8639	" 76494	08 51.4	+04 37	"	"	"	-0.7	21 43	22 53	1	
8640	" 98960	11 18.2	+00 41	"	"	"	-0.8	22 57	00 31	2	
8641	" 109996	12 34.0	23 12	"	"	"	-0.8	00 27	01 49	5	
8642	" 122744	13 58.6	08 01	"	"	"	-0.8	01 15	03 07	4	
8643	" 144046	15 58.8	05 16	"	"	"	-0.8	03 13	04 13	1	
8644	" 159126	16 58.5	32 02	"	"	"	-0.8	04 18	05 30	2	
	Trans. Ject				Outside through base						

Very strong NW wind.

ading Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp.	REMARKS
9 56	0 55 W	+12 46	1+	6.71	F0	1 1/2 - 1 1/2 - 1 1/2	From sub 23.77 ± v.  P.D. 48737
10 04	1 44 W	+13 55	1-2-1	7.50	K0	1 1/2 - 1 1/2 - 1 1/2	seeing variable
10 10	1 41 W	+04 27	1-2	7.14	G5	1 1/2 - 1 1/2 - 1 1/2	Third subsiding
10 18	0 42 W	+00 25	1-2	7.26	K0	1 1/2 - 1 1/2 - 1 1/2	
10 24	0 45 W	+28 59	2	7.47	K0	1 1/2 - 1 1/2 - 1 1/2	
10 30	0 45 W	+07 50	2	7.35	K0	1 1/2 - 1 1/2 - 1 1/2	
10 36	0 05 E	+03 08	2	7.18	K0	1 1/2 - 1 1/2 - 1 1/2	
10 42	0 10 W	31 50	2-3	7.60	K0	1 1/2 - 1 1/2 - 1 1/2	
						7.55	

7 11 11 11 11
7 11 11 11 11

Date Tuesday Mar 23-24

Y-L

Julian Day 2430807

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
8645	HD 69682	5 55.6	43 22	I 23	F102a 0	008	+1.8	19 07		
8645	HD 69682	8 12.9	53 53	"	"	"	+1.8	9 14	10 00	2
8646	HD 81790	9 22.7	56 11	"	"	"	+2.0	10 04	10 44	3
8647	HD 85583	9 47.7	61 36	"	"	"	+2.0	10 47	00 37	4

Wednesday March 24

Mirrors coated with alphasol solution and with distilled water. Mirrors tended to fog up as focusing lens warms. To facilitate drying telescope was left with sun shining on mirrors.

my estimate of focus reading is 23.74

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp	REMARKS												
				7.52	KO $1\frac{1}{2}$	clouded in at 10												
10:00	1 30 W	53 45	2-1	6.64	F0 $1\frac{1}{2} - 1\frac{1}{2} - 1\frac{1}{2}$	Refraction good - but haze -												
10:45	59 W	56 00	2-3	6.80	F2 $1\frac{1}{2} - 1\frac{1}{2} - 1\frac{1}{2}$													
11:00	2 32 W	61 22	2-3	7.42	KO $1\frac{1}{2} - 1\frac{1}{2} - 1\frac{1}{2}$	hazy - light clouds more clouds. OK												
<p>11:00 + 11:00 on 11:00</p> <table border="0" style="width: 100%;"> <tr> <td style="text-align: left;">Mar. 24</td> <td style="text-align: center;">m.c.</td> <td style="text-align: center;">s.c.</td> <td style="text-align: center;">s.w.</td> <td style="text-align: center;">m.f.w</td> <td style="text-align: center;">s.m.</td> </tr> <tr> <td></td> <td style="text-align: center;">-02.4</td> <td style="text-align: center;">+39.6</td> <td style="text-align: center;">+05.3</td> <td style="text-align: center;">+13.2</td> <td style="text-align: center;">0.3</td> </tr> </table>							Mar. 24	m.c.	s.c.	s.w.	m.f.w	s.m.		-02.4	+39.6	+05.3	+13.2	0.3
Mar. 24	m.c.	s.c.	s.w.	m.f.w	s.m.													
	-02.4	+39.6	+05.3	+13.2	0.3													

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Date Wednesday, June 24 1925 L-No Julian Day 2430808

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
8648	HD. 94720	10 50.9	22 54	I 25	E 13.0	Set 508	+7.5	22 27	23 39	1
8649	" 101112	11 33.0	09 26	"	"	"	+7.5	23 43	01 05	2
8650	" 120602	13 45.4	05 59	"	"	"	+07.2	01 08	02 08	3
8651	" 93075	10 39.8	57 26	"	"	"	+07.2	02 17	03 37	4
8652	" 138524	15 27.6	62 27	"	"	"	+07.3	03 47	05 07	1
8653	" 156697	17 14.0	06 11	"	"	"	+07.2	05 14	05 48	2
	Focus Test - outside three base						-7 ^s -5 ^s			

Clouds at sunset and sky whitish
 all of early evening
 Focus set at 23.66

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Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp	REMARKS
23:57	2 36 W	22 39	1	7.31	K ₂	1/2-1/2-1/2 Tel. ...
1:05	1 20 W	09 12	1-2	7.55	K ₀	1/2-1/2-1/2 ok
1:17	0 11 W	05 49	1-2	7.25	K ₀	1/2-1/2-1/2 ok
2:37	4 45 W	5-7 12	2	7.31	F ₀	1/2-1/2-1/2* light clouds ok
5:07	1 30 W	62 18	2	7.67	K ₅	1/2-1/2-1/2 ok
5:50	0 23 W	06 11	2	6.72	F ₀	1/2-1/2-1/2 ok
						? slow down hills ...

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Date Thursday March 25 - 25/43 h-No Julian Day 2430509

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
8654	H.D. 38765	05 43.0	51 29	I-25	E-163a-D	Set .008	+9.8	19 20	21 10	1
8655	" 67224	08 09	58 33	"	"	"	+9.8	21 16	22 36	2
	Kocmo Islet			Outside through base						
8656	H.D. 115709	13 13.8	04 13	I-25	E103-D	Set .008	+08.2°C	00 59	02 41	2
8657	" 126271	14 19.4	08 33	"	"	"	+08.1	02 52	04 34	1
8658	" 174369	19 45.1	24 56	"	"	"	+08.1	04 45	05 47	1
	Kocmo Islet			Outside through base						

Focus set at 23.62

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp	REMARKS
0	3 ¹⁷ W	51 29	1	7.18	G5	1/2-1/2-1/2	Haze, clouds, 11
	2 ²⁴ W	58 26	1	7.05	K0	1/2-1/2-1/2	Haze sky hazy focus a shade too short
						7.5	Sky still rather hazy 00:00 but much improved. I am sweating slightly. 12
	2 ³⁶ W	03 59	1.0	6.56	H0	1/2-1/2-1/2	Focus what 23.640 13
	2 ³⁸ W	03 20	1.0	7.29	K2	1/2-1/2-1/2	Focus too long -
	1 ⁰⁵ E	25 00	0	6.56	H0	1/2-1/2-1/2	(Hands focus at 23.68 or 9?)

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Date Friday March 26-27 1943 H - No Julian Day 2430810

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
8659	HD 46642	06 29.4	+07 39	I-25	K-103a-0	SW 239	+7.7	19 10	19 44	2
8660	50204	06 47.1	+38 38	"	"	"	+7.8	19 49	20 17	3
8661	53609	06 56.8	+16 49	"	"	"	+7.8	20 20	21 15	4
8662	79248	09 07.9	+21 42	"	"	"	+7.8	21 54	22 30	1
8663	83951	09 36.7	+35 32	"	"	"	+7.7	22 33	23 13	2
8664	89268	10 12.8	+47 17	"	"	"	+7.8	23 16	00 58	3
8665	114889	13 08.4	+19 15	"	"	"	+7.7	01 03	02 53	4
8666	130025	14 40.8	+19 18	"	"	"	+7.6	02 56	04 26	1
8667	161193	17 39.1	+51 52	"	"	"	+7.5	04 32	05 34	2
Joan Test - outside - blue beam 7 ^s - 5 ^s										

Cloudy all-day. Clearing at sunset. Strong NW wind.
 Too windy & too much cloud about to try stars in W & NW.

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From set 4 23.63

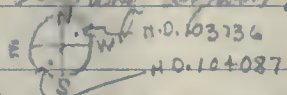
Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
20	1 10 W	+ 7 36	0-1	6.42	A0	1/2 1/2 1/2 ¹⁰ faint star in spectroscopic field
20	1 24 /	+38 34	1	6.23	A0	1/2 1/2 1/2
15	2 10 W!	+14 46	1	7.19	K5	Foggy & cloudy for brief intervals. ¹⁵ which 22
20	1 17 W	+21 30	0-1	6.09	A0	1/2 1/2 1/2 Clearing low light clouds.
3	1 32 W	+35 22	0	6.37	F2	1/2 1/2 1/2 Very windy and hard to guide.
00 55	2 41 W	+47 03	0-1	7.48	K0	1/2-1/2-1/2 " " " "
02 12	1 41 W	+19 00	0	7.48	K0	1/2-1/2-1/2
04 24	1 42 W	+19 07	0-1	7.39	K0	1/2-1/2-1/2
02 34	0 07 E	+51 51	1	7.12	K0	1/2-1/2-1/2

Date Saturday Mar 27-28 Y-No Julian Day 2430811

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
8668	H D 46709	06 29.8	10 04	1-25"	E103a-D	008.	+3.0	19 14	10 25	3 1 48W
8669	H.D. 111591	12 45.3	23 24	1-25"	E-103a-D	008	+0.0	00 24	02 02	1 112W
8670	" 129430	14 37.4	21 33	"	"	"	+0.3	02 05	03 25	2 246W
8671	" 138803	15 29.3	17 29	"	"	"	+0.4	03 26	04 18	3 250W
8672	" 170137	18 22.8	03 41	"	"	"	+0.5	04 24	05 38	4 344E
	} Focus East - outside three lanes 7 ^s - 5 ^s									

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp	focus set 23.70	REMARKS
02:31	1 48W	+10 00	0	7.24	K2	1/2-1/2-		clouds, clouds + more clouds. 1
								Still cloudy 11 ¹⁵ - cloud up. 1
02:02	1 17W	+23 12	0-1	7.46	K0	1/2-1/2-1/2		sky cleared off again 12:00 2
02:01	0 46W	+21 20	0-1	7.21	G5	1/2-1/2-1/2		Focus set 23.74±. Brist N.W. wind. 2
02:18	0 50W	+17 21	0-1	6.73	F0	1/2-1/2-1/2		1
02:18	0 44E	+03 44	0-1	7.21	K2	1/2-1/2-1/2		Hazy (100% humidity) 1

Left focus as was, 23.74

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS																																																	
22:00	2 42W	+18 08	0-1	7.44	K0	1/2-1/2-1/2																																																	
22:10	2 48W	+18 55	1-2	7.28	K0	1/2-1/2-1/2	Seeing variable.																																																
22:20	2 51	+17 23	1-2	7.29	K0	1/2-1/2-1/2	Clouds over field 22 ⁴⁰ -22 ⁵⁵ ; haze thereafter. Thick.																																																
22:30	2 55W	+52 10	1-2	7.34	K0	1/2-1/2-1/2	Shining again.																																																
22:40	2 56W	+51 48	1	7.44	G5	1/2-1/2-1/2	 H.D. 103736 H.D. 104087																																																
22:50	1 17W	+55 09	1	6.63	A3	1/2-1/2-1/2	Not to be gotten too strong																																																
23:00	1 25W	+45 28	1-2	7.31	K2	1/2-1/2-1/2																																																	
23:10	1 33E	+48 40	1	6.10	A3	1/2-1/2-1/2																																																	
							<table border="0"> <tr> <td></td> <td>mc.</td> <td>sc.</td> <td>sw.</td> <td>m_sw.</td> <td>s_w.</td> </tr> <tr> <td>Mar 30</td> <td>+02.4</td> <td>+46.8</td> <td>+5.5</td> <td>-3.8</td> <td>-0.2</td> </tr> <tr> <td></td> <td>mc.</td> <td>sc.</td> <td>sw.</td> <td>m_sw.</td> <td>s_w.</td> </tr> <tr> <td>Mar 31</td> <td>+03.1</td> <td>+47.6</td> <td>+02.2</td> <td>-3.0</td> <td>-0.1</td> </tr> <tr> <td></td> <td>mc.</td> <td>sc.</td> <td>sw.</td> <td>m_sw.</td> <td>s_w.</td> </tr> <tr> <td>Mar 31</td> <td>+04.1</td> <td>+49.2</td> <td>+00.4</td> <td>-29.3</td> <td>-0.1</td> </tr> <tr> <td></td> <td>mc.</td> <td>sc.</td> <td>sw.</td> <td>m_sw.</td> <td>s_w.</td> </tr> <tr> <td>Apr. 2</td> <td>+04.0</td> <td>+49.7</td> <td>-05.5</td> <td>-30.2</td> <td>00.0</td> </tr> </table>		mc.	sc.	sw.	m _s w.	s _w .	Mar 30	+02.4	+46.8	+5.5	-3.8	-0.2		mc.	sc.	sw.	m _s w.	s _w .	Mar 31	+03.1	+47.6	+02.2	-3.0	-0.1		mc.	sc.	sw.	m _s w.	s _w .	Mar 31	+04.1	+49.2	+00.4	-29.3	-0.1		mc.	sc.	sw.	m _s w.	s _w .	Apr. 2	+04.0	+49.7	-05.5	-30.2	00.0
	mc.	sc.	sw.	m _s w.	s _w .																																																		
Mar 30	+02.4	+46.8	+5.5	-3.8	-0.2																																																		
	mc.	sc.	sw.	m _s w.	s _w .																																																		
Mar 31	+03.1	+47.6	+02.2	-3.0	-0.1																																																		
	mc.	sc.	sw.	m _s w.	s _w .																																																		
Mar 31	+04.1	+49.2	+00.4	-29.3	-0.1																																																		
	mc.	sc.	sw.	m _s w.	s _w .																																																		
Apr. 2	+04.0	+49.7	-05.5	-30.2	00.0																																																		

Date Wednesday Mar 31 - April

Y-No

Julian Day 2430 815

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
8681	HD 67827	08 04.7	39 02	1-25	E103a-D	008	+7.0	19 30	21 ⁰⁰ ₃₀	1
8682	HD 77309	08 56.7	54 41	"	"	"	+7.1	21 18		
<p>Thursday April 1-2, 1943 H L Clouds in the morning</p> <p>Friday April 2-3, 1943 H L Clouds most of day; clearing late afternoon. Clouds in dark. Sky partly clearing, starts to clear in afternoon. Still cloudy at 11⁰⁰, and very strong N wind.</p> <p>Sun at 12⁰⁰ sun up. Violent N wind, scattered clouds to see if wind would abate. Clouds from N. later on wind from at 3⁰⁰ AM conditions very unsettled. L.</p>										

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Mirror Fogged - Had to wait for it to dry off

Piers - Temperature - met -

Ending Time
E.S.T.

Hour Angle
End

Declination

Seeing

Ptg. Mag.

Comp

REMARKS Focus 23.65

2.1 30
00

1 10 W

38 54

0

703

G5

1/2 - 1/2 - 1/2

clouded over -

~~54 30~~

~~0~~

~~5.74~~

~~A2~~

~~1/2 -~~

n. 9. closed up at 11⁰⁰

Date Sat. Apr 3-4 /43 Y-L

Julian Day 2430818

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	How Angle End
8682	HD 56989	07 19.2	2 54	I-25	E103a-0	008	-1.0	7 20	8 00	1
8683	HD 65066	07 518	8 54	"	"	"	-1.0	8 04	8 50	2
8684	HD 77445	08 574	7 41	"	"	"	-1.0	8 54	9 44	3
8685	HD 94237	10 47.5	0 21	"	"	"	-1.0	9 49	11 19	4
8686	HD 93075	10 398	57 26	H	"	"	-1.0	11 28	01 38	1
Prous Test				Outside through base						

Sunday Apr. 4-5 /43 H-No

Cloudy with rain during early evening - clearing 11:4:
 filled in by 12:30 - still cloudy 1:00

No.

Monday April 5/43 L-No

Clearing off by 8:30 but with violent N.W. wind.
 Wind still very high at 1:00 - No

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp	REMARKS												
8 00	71 ^m W	2 51	1-2	6.84	GS	1/2-1/2-1/2 image unsteady.												
8 50	84 ^m W	8 45	1	6.90	GS	1/2-1/2-1/2												
9 24	73 W	7 29	1-2	7.07	KO	1/2-1/2-1/2												
11 10	58 W	00 06	1-2	7.77	KS	1/2-1/2-1/2												
6 30	3 ²⁵ W	57 14	1-2	7.31	FO	1/2-1/2-1/2												
					7.5	Stage - sky slowly thickening from midnight on.												
						Closed at 12.30 sky completely thick.												
						<table border="0"> <tr> <td></td> <td>mc</td> <td>sc</td> <td>S.W.</td> <td>mfw</td> <td>ST.W.</td> </tr> <tr> <td>Apr 3.</td> <td>+06.8</td> <td>+53.6</td> <td>-58</td> <td>-24.8</td> <td>00.0</td> </tr> </table>		mc	sc	S.W.	mfw	ST.W.	Apr 3.	+06.8	+53.6	-58	-24.8	00.0
	mc	sc	S.W.	mfw	ST.W.													
Apr 3.	+06.8	+53.6	-58	-24.8	00.0													

179

Date Tuesday April 6-7, 1943 H-No Julian Day 2430821

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
8687	HD 62437	07 38.9	+02 39	I-25	E-103A-8	slit 0.08	-3.5	19 24	20 14	2
8688	68077	08 05.8	+56 46	"	"	"	-3.5	20 19	21 13	3
8689	50953	09 17.7	+64 23	"	"	"	-3.8	21 16	22 36	4
8690	88651	10 08.3	-64 31	"	"	"	-3.8	22 45	00 26	2
8691	103736	11 51.7	+62 06	"	"	"	-3.8	00 33	01 35	3
8692	122064	13 54.1	+61 59	"	"	"	-3.8	01 39	02 03	4
8693	139284	15 32.2	+38 42	"	"	"	-3.8	03 05	04 51	2
8694	168694	18 16.0	+29 37	"	"	"	-3.9	04 27	05 15	2
	Focus test - outside show box - 7 ^s - 5 ^s									

Focus set 23.80

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
21	1 13 W	+02 33	0-1	6.62	F0	1 1/2 1 1/2 1 1/2 N 20" still strong. Storage small but some trade fine
21	1 43 W	+56 38	1	6.90	K0	1 1/2 1 1/2 1 1/2 moderate sun fine (fine (strong))
22	1 55 W	+64 11	1-2	7.53	K2	1 1/2 1 1/2 1 1/2 fine
0 22	2 56 W	+60 16	2	8.0	Ma	1 1/2 1 1/2 1 1/2 fine
1 15	2 52 W	+61 51	1	7.06	G5	1 1/2-1 1/2-1 1/2 plates all fine but stronger than needed. fine (strong)
1 31	1 57 W	+61 47	2	7.58	K5	1 1/2-1 1/2-1 1/2 Too strong
1 42	1 29 W	+38 34	2-3	7.57	K2	1 1/2-1 1/2-1 1/2 fine
1 47	1 21 E	+29 37	2	7.14	K0	1 1/2-1 1/2-1 1/2 fine
						Focus very good.
						mc S.C. SW
						Op - 8. +09.1 +57.7 +07.7

Date Thursday Apr 8-9 Y-L Julian Day 2430823

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
8695	HD 84812	9 42.6	66 04	J-25	E103a-0	008	+4.0	9 17	9 55	2 57 W
8696	HD 82189	9 25.4	72 39	"	"	"	+4.0	10 00	10 30	3 49 W
8697	HD 95233	10 54.6	52 02	"	"	"	+4.0	10 36	11 36	4 36 W
8698	HD 100030	11 25.5	48 29	"	"	"	+4.0	11 40	00 ²⁵	2 49 W
8699	" 124631	14 07.9	83 47	"	"	"	+4.0	02 ³⁰	02 ⁴³	3 14 W
8700	" 153299	16 53.5	50 13	"	"	"	+4.1	02 ³⁶	05 59	4 24 W
8701	" 151623	16 43.5	79 06	"	"	"	+4.0	07 57	04 37	1 43 W
8702	{ " 153697	16 55.9	65 11	"	"	"	+4.0	09 4 ³⁰	08 10	1 00 W
	{ Triebrod									
	<p>Printing Apr. 9-10 Cleared off sometime before midnight. strong wind and increasing in violence time 1.00 Wind continued with vigor. Leaves...</p>									

ald etnan under moon-walk time p182
 9^h 49^m 29^s

cleared 10 F^D T

FOCUS 2370

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp.	REMARKS
9 55	57 W	65 52	1-2	6.57	F0	1/2-1/2-1/2	
10 30	1 ^h 49 W	72 30	1	6.24	F5	1/2-1/2-1/2	
1 36	86 ^m W	51 47	1-2	7.30	G5	1/2-1/2-1/2	
2	1 48 W	48 13	2	7.16	G5	1/2-1/2-1/2	
	1 05 W	03 36	2	7.27	Ma	1/2-1/2-1/2	hazy
5	0 14 E	50 07	3	8.95	Ma	1/2-1/2-1/2	
	2 40 W	77 02	3	7.38	K0	1/2-1/2-1/2	
	1 03 W	65 00	3	6.72	F0	1/2-1/2-1/2	
						7.5	
							Apr. 9. m.c. +10.0 sc. +59.3 sw. -09.5
							m.t.w. 5 t.w. -19.3 +0.1

Date Sat Apr 10-11 / 43 Y-L Julian Day 2430825

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
8703	HD 72561	08 28.5	5 06	I-25	E1030 0	008	+1.0	7 30	8 40	3 65 W
8704	HD 87500	10 00.3	16 14	"	"	"	+1.0	8 44	9 24	4 19 W
8705	HD 94720	10 50.9	22 54	"	"	"	+1.0	9 28	10 38	1 41 W
8706	HD 100655	11 29.9	20 59	"	"	"	+1.0	10 42	11 50	2 04 W
8707	HD 114793	13 07.7	19 17	"	"	"	+1.0	11 55	01 15	3 03 W
8708 ^{7?}	" 130970	14 45.9	00 09	"	"	"	+1.0	01 20	02 33	4 47 W
8708 ^{8?}	" 139262	15 35.4	12 23	"	"	"	+1.0	02 41	03 44	1 00 W
8708 ⁰⁹	{ " 162774	17 47.6	01 20	"	"	"	+1.0	03 46	04 05	2 00 W
	{ <i>from feed</i>									
				<i>Outside through case</i>						

Ending Time
E.S.T.Hour Angle
End

Declination

Seeing

Ptg. Mag.

COMP.

REMARKS

Focus 23.75

8 49

65 W

4 56

0

7.13

K0

 $1\frac{1}{2}-1\frac{1}{2}-1\frac{1}{2}$

windy

9 24

17 W

16 02

1

6.56

F0

 $1\frac{1}{2}-1\frac{1}{2}-1\frac{1}{2}$

10 38

41 W

22 39

1

7.31

K2

 $1\frac{1}{2}-1\frac{1}{2}-1\frac{1}{2}$

11 50

74 W

20 45

1-2

7.44

K0

 $1\frac{1}{2}-1\frac{1}{2}-1\frac{1}{2}$

0 15

1 03 W

19 01

1

7.36

G5

 $1\frac{1}{2}-1\frac{1}{2}-1\frac{1}{2}$

* plate discarded.

Beautiful aurora!

02 33

0 47 W

-00 03

1

7.31

K2

 $1\frac{1}{2}-1\frac{1}{2}-1\frac{1}{2}$

0 50

1 00 W

12 14

1

7.09

G5

 $1\frac{1}{2}-1\frac{1}{2}-1\frac{1}{2}$

0 50

0 12 W

01 20

1

7.33

K0

 $1\frac{1}{2}-1\frac{1}{2}-1\frac{1}{2}$

7.5

* Plate in holder backwards?

187

Date Monday, April 12-13, 1943 H. No. Julian Day 243.0827

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
8711	HD 79248 { From test - outside the box	09 07.9	+21 42	I-25	B113A-0	0.08	+1.6	21 16	21 56	4
<p>Wednesday April 14-15 Y - No Cloudy with snow during day - cloudy during evening - trying to clear off 1.00 - steadily improving up to 2.30 - filling in again 3.00 - improving 4.00 -</p>										

Cloudy with snow during day; cloudy early evening.

p. 188

Transit 23.75-

Ending Time
E.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
1 49 W	+21 32	1-2	6.09 AD	Cloud 21 ³⁵ ; increasing cloudiness. Still thick 22 ³⁰ cloud up. - Sky showing signs of breaking 23.30 - filled in thick again by 00:30 - No m.c. s.c. s.w. 7 5.4 S.T.W Apr. 13 +12.7 +01 04.0 -12.3 -10.1 10.3 m.c. s.c. s.w. 5 m. Apr. 14 +13.3 +01 05.0 -13.8 -10.7 +03

191

Date Thurs Apr 15-16

Y-L

Julian Day 2430.30.

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
8713	HD 63435	7 43.8	04 34	1-25	E103a-0	008	-1.5	7 32	8 22	2 15 W
8714	" 78712	9 04.6	31 23	"	"	"	-1.6	8 26	9 26	3 1 35 W
8715	" 82685	9 28.4	73 32	"	"	"	-1.8	9 32	10 16	4 2 20 W
8716	" 98499	11 14.8	67 38	"	"	"	-1.4	10 25	11 15	1 73 W
8717	" 103799	11 52.1	40 55	"	"	"	-1.7	11 20	12 10	2 15 W
8718	" 117201	13 23.7	15 18	"	"	"				
	<i>Focus flat</i>			<i>Outside through tree</i>						

Friday April 16-17, 1943 H

Cloudy with snow in daytime. Bright early evening. Partly clearing 20³⁰, became clear but hazy for several intervals from then till 22¹⁵. Then completely clear.

Focus 23.77 ±

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp.	REMARKS
2 22	1 51 W	4 26	2	7.07	GO	1/2 1/2 1/2
4 25	1 35 W	31 10	2-3	var	MC	1/2 1/2 1/2
10 16	2 00 W	73 20	2	7.33	FO	1/2 1/2 1/2 took n.b. A.
11 15	7 3 ^m W	67 25	2	7.31	KO	1/2 1/2 1/2
2 0	1 31 W	40 40	2	6.96	FS	1/2 1/2 1/2
				7.29	FO	
					4.5	
						Some light clouds. Filling in at end of exposure. Waited until 2.00 A.M. Sky still thick, closed up.
						Apr. No. 50 74 102
						+01 67.5 +12.8 -14.0

193

Date Sat. Apr 17-18 Y-L

Julian Day 2430832

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	
8718	HD 71153	8 23.0	69 39	I-25	E1030 0	.00.2	+3.4	7 36	8 26	3	
8719	HD 83126	9 31.2	67 43	"	"	"	+3.3	8 30	9 10	4	
8720	HD 83550	9 34.2	78 36	"	"	"	+3.2	9 14	9 50	1	
8721	HD 97501	11 08.1	41 38	"	"	"	+3.0	10 02	11 02	2	
8722	HD 99967	11 25.0	47 12	"	"	"	+3.0	11 05	12 05	3	
8723	HD 117201	13 23.7	65 13	"	"	"	+3.1	12 13	12 53	4	
8724	" 117281	13 24.2	51 06	"	"	"	+3.2	01 02	01 53	1	
	Broken Gert			Chickadee	thinning	low					
		Sunday, April 18-19, 1945									
		Light clouds late afternoon & early morning; thinning & then thickening again									
		all my sleep at 11 45									

194

Focus 23.70

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp.	REMARKS
8 26	81 W	+69 29	3-2	7.44	KO	$1\frac{1}{2}-1\frac{1}{2}-1\frac{1}{2}$	Finder light not working
9 10	59 W	67 31	3	7.46	KS	$1\frac{1}{2}-1\frac{1}{2}-1\frac{1}{2}$	
9 50	35 W	78 23	3	7.19	GS	$1\frac{1}{2}-1\frac{1}{2}-1\frac{1}{2}$	New Emulsion. rec. Dec/42
11 02	75 ^m W	41 22	3-2	7.49	KO	$1\frac{1}{2}-1\frac{1}{2}-1\frac{1}{2}$	"
12 02	2 02 W	46 58	2	7.49	KO	$1\frac{1}{2}-1\frac{1}{2}-1\frac{1}{2}$	" fine
12 53	0 52 W	65 02	3	7.29	FO	$1\frac{1}{2}-1\frac{1}{2}-1\frac{1}{2}$	" fine
01 12	1 51 W	50 53	2	6.85	A3	$1\frac{1}{2}-1\frac{1}{2}-1\frac{1}{2}$	Light clouds jelly filling in fair
						7.5	Mostly thick but 3" cloud up.

Sky improving 1.00 - getting thick again 1.30 -
2.00 - clearing off 2:15

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp.	REMARKS																								
		+23 47	1	7.77	K2 1/2	Focus set 23.71 Sky thickening up shortly after beginning of exposure. star gone 02 5.5"																								
						<table> <tr> <td></td> <td>m.e.</td> <td>s.e.</td> <td>S.W.</td> <td colspan="2"><u>MTW. S.W.</u></td> </tr> <tr> <td>Apr. 20</td> <td>+18.0</td> <td>+01 11.9</td> <td>-17.6</td> <td>-02.1</td> <td>+0.4</td> </tr> <tr> <td></td> <td>m.c.</td> <td>s.e.</td> <td>S.W.</td> <td></td> <td></td> </tr> <tr> <td>Apr. 21</td> <td>+19.0</td> <td>+01 13.4</td> <td>-21.4</td> <td>-00.9</td> <td>+0.4</td> </tr> </table>		m.e.	s.e.	S.W.	<u>MTW. S.W.</u>		Apr. 20	+18.0	+01 11.9	-17.6	-02.1	+0.4		m.c.	s.e.	S.W.			Apr. 21	+19.0	+01 13.4	-21.4	-00.9	+0.4
	m.e.	s.e.	S.W.	<u>MTW. S.W.</u>																										
Apr. 20	+18.0	+01 11.9	-17.6	-02.1	+0.4																									
	m.c.	s.e.	S.W.																											
Apr. 21	+19.0	+01 13.4	-21.4	-00.9	+0.4																									

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Date Thurs Apr 22-23/43

Y-L.

Julian Day 2430837

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
8726	HD 72208	08 26.5	10 09	1-25	E103a-O	008	+13.0	7 50	8 30	4
8727	HD 93075	10 39.8	57 26	"	"	"	+13.0	8 38	9 28	1
8728	HD 117710	13 27.0	42 36	"	"	"	+12.9	9 38	10 10	2
8729	HD 118295	13 30.9	44 43	"	"	"	+12.9	10 15	10 45	3
8730	HD 118741	13 33.7	51 13	"	"	"	+12.9	10 49	00 09	4
8731	" 121146	13 48.6	68 49	"	"	"	+12.8	00 15	01 01	1
8732	" 122866	13 59.3	51 27	"	"	"	+12.9	01 07	01 31	2
8733	" 141466	15 44.1	32 02	"	"	"	+12.9	01 37	02 57	3
8734	" 154610	17 01.4	09 53	"	"	"	+12.9	03 02	04 24	4
	Focus Test									
				Outside	through	base				

Focus set 23.58

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp	REMARKS
8 30	1 46W	+9 59	1-2	6.58	A0	$1\frac{1}{2}-1\frac{1}{2}-1\frac{1}{2}$	There were water streaks on mirror when I opened up. Little weak
9 28	2 8 W	57 13	2-3	7.31	F0	$1\frac{1}{2}-1\frac{1}{2}-1\frac{1}{2}$	ok
10 0	1 35 E	42 25	3	7.15	K0	$1\frac{1}{2}-1\frac{1}{2}-1\frac{1}{2}$	ok
10 45	6 4 E	44 30	3	6.77	A5	$1\frac{1}{2}-1\frac{1}{2}-1\frac{1}{2}$	(ok)
00 09	1 7 W	51 01	3	7.77	K5	$1\frac{1}{2}-1\frac{1}{2}-1\frac{1}{2}$	↑ R. Looks like close double 12" ± red + blue? ok
0 0	0 55 W	68 37	3	7.44	K0	$1\frac{1}{2}-1\frac{1}{2}-1\frac{1}{2}$	↑ E 1770. 6.4-79 1.90 120° ok
0 7	1 14 W	51 15	2	6.05	A0	$1\frac{1}{2}-1\frac{1}{2}-1\frac{1}{2}$	ok
2 15	0 56 W	31 55	3-2	7.74	K5	$1\frac{1}{2}-1\frac{1}{2}-1\frac{1}{2}$	ok
2 4	1 03 W	09 49	3-2	7.74	K5	$1\frac{1}{2}-1\frac{1}{2}-1\frac{1}{2}$	ok
						7-5	focus ok

Haze and light clouds end of afternoon.

207

Focus set 23.52 Temp +15.8 (both plugs in)

Trouble with thermostat: evidently from contact (in plug or at low end of wire?) needle would occasionally do erratically wander.

Ending Time
E.S.T.

Hour Angle
End

Declination

Seeing

Ptg. Mag.

REMARKS

21³⁷

1 25.4

+54 31

0-1

5.74

A2

1 $\frac{1}{2}$ 1 $\frac{1}{2}$ 1 $\frac{1}{2}$

Very hazy. Star gone presently
I think. Shows thinning out

23³¹

2 15.4

+57 14

0-1

7.31

F0

1 $\frac{1}{2}$ 1 $\frac{1}{2}$ 1 $\frac{1}{2}$

Binary. Hazy shortly after start. Hazy much
of exposure.
Closed up 23³⁰

Mirror was farth out of focus the same amount
finding it. Star image almost filled ring in the
center of eyepiece. Same temp 56° F

Focus 23.50

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp	REMARKS
9.4	66 W	84 11.	1-0	7.48	KO. $\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	Trouble finding star - funder + focus. haze) ^{clouds} best plate.
10.54	1 52W	25 50	1-0	7.40	KO $\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	good ^{revised} 8733
	24 34	0	7.46	KO	$\frac{1}{2}$	Thick plate not kept.

Date *East. Sunday, April 25-26, 1943* H-No 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
8739	HD 82670	09 28.3	+23 53	I-25	E-103a-0	^{cut} 0.08	+14.2	19 52	21 22	3 14.4 W
8740	97501	11 08.1	+41 38	"	"	"	+14.2	21 25	22 45	3 31 W
8741	111 164	12 42.2	+12 31	"	"	"	+14.3	22 49	23 21	4 12 W
8742	114 357	13 05.0	+37 57	"	"	"	+14.2	23 24	00 42	1 31 W
8743	127065	14 24.2	+36 39	"	"	"	+14.0	00 46	02 06	2 17 W
8744	143 209	15 54.0	+39 58	"	"	"	+13.9	02 10	04 00	1 41 W
8745	174481	18 45.6	+48 39	"	"	"	+13.9	04 06	04 37	4 4.6 E
Focus test - outside of emulsion - 7 ^s -5 ^s										

Cloudy most of day. Thinning out in evening. 206

Focus set to 23.55

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
11:00	1 46 W	+23 43	1	7.61	K5	1 1/2 1/2 1/2 Light haze, Brilliant aurora
11:45	1 30 W	+41 24	1-0	7.49	K0	1 1/2 1/2 1/2 Strong ^W wind. Seeing very variable. Some
12:00	0 32 W	+12 15	1	6.13	A2	1 1/2 1/2 1/2 Aurora very full in some parts. Fair
00:00	1 31 W	+37 44	1-0	7.21	K2	1 1/2 - 1 1/2 - 1 1/2
00:00	1 37 W	+36 29	1-0	7.19	K0	1 1/2 - 1 1/2 - 1 1/2 Brilliant aurora covering all northern sky
00:00	2 01 W	+39 52	0	7.44	K0	1 1/2 - 1 1/2 - 1 1/2 down to Dec +25° - 01:00
00:00	0 16 E	+48 43	1	6.10	A3	1 1/2 - 1 1/2 - 1 1/2

Focus set at 23.61 End plug out.

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp.	REMARKS																
22 ⁰⁰	0 ²⁵ W	25 34	0	7.37	K5	<p>1$\frac{1}{2}$-1$\frac{1}{2}$-1$\frac{1}{2}$ 7-5</p> <p>9+mag from 21³⁰ on. Shuck at 22⁰⁰ Sky remaining mostly thick so closed up at 22⁰⁰</p> <p>Sky still very thick 1.00 with no signs of clearing -</p> <table border="1"> <thead> <tr> <th></th> <th>No.</th> <th>MTW</th> <th>STW</th> </tr> </thead> <tbody> <tr> <td>Apr. 27.</td> <td>+24.0</td> <td>+1 19.9</td> <td>-31.0</td> <td>+6.8</td> <td>+0.5</td> </tr> <tr> <td>Apr. 28</td> <td>+24.8</td> <td>+1 20.6</td> <td>-31.4</td> <td>+7.9</td> <td>+0.5</td> </tr> </tbody> </table>		No.	MTW	STW	Apr. 27.	+24.0	+1 19.9	-31.0	+6.8	+0.5	Apr. 28	+24.8	+1 20.6	-31.4	+7.9	+0.5
	No.	MTW	STW																			
Apr. 27.	+24.0	+1 19.9	-31.0	+6.8	+0.5																	
Apr. 28	+24.8	+1 20.6	-31.4	+7.9	+0.5																	

209

Date *Wednesday, April 28-29, 1943* H-No *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
8747	HD 108471	12 22.6	+09 10	I-25	E-103 _a -D	^{set} 002	+7.6	22 21	23 45	2
8748	119081	13 36.0	+28 35	"	"	"	+7.7	23 48	01 18	3
8749	138936	15 30.1	+02 00	"	"	"	+7.6	01 28	02 18	4
8750	146603	16 12.0	+67 24	"	"	"	+7.6	02 28	03 50	1
8751	159026	17 27.3	+38 58	"	"	"	+7.6	03 56	04 42	2
Focus test - outside thru base - 7 ^s - 5 ^s										
<p><i>Friday April 30 - May 1, 1943 H-L</i> <i>Clouds with rain early evening, clouds occasionally broken later.</i></p>										

Partly cloudy all day. Clouded over thick around sunset.

210

Temp. at 23.64

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS												
23 ⁴⁵	1 28W	+07 57	1-2	7.42 KO	1/2-1/2-1/2 light cloud 22 ⁴⁰ - ; stars 22 ⁵² - 22 ⁵⁷ (alt +) 0 = (alt ch) = 1												
23 ¹⁸	1 48W	+28 20	1-0	7.36 KO	1/2-1/2-1/2 tried to get H.D. 127067 but because of poor up 1 w. of												
23 ¹⁹	0 54W	+01 51	1-0	6.66 A3	1/2-1/2-1/2 seeing reasonable to distinguish it from H.D. 127043												
23 ⁵⁰	1 46W	+67 19	1	7.28 KO	1/2-1/2-1/2												
23 ⁵²	1 22W	+38 54	1	6.79 F2	1/2-1/2-1/2												
					<table border="0"> <tr> <td></td> <td>m.c.</td> <td>sc.</td> <td>s.w.</td> <td><u>m.t.w.</u></td> <td><u>STW</u></td> </tr> <tr> <td>Apr. 30.</td> <td>+26.2</td> <td>+1 22.5</td> <td>-39.7</td> <td>+10.2</td> <td>+0.5</td> </tr> </table>		m.c.	sc.	s.w.	<u>m.t.w.</u>	<u>STW</u>	Apr. 30.	+26.2	+1 22.5	-39.7	+10.2	+0.5
	m.c.	sc.	s.w.	<u>m.t.w.</u>	<u>STW</u>												
Apr. 30.	+26.2	+1 22.5	-39.7	+10.2	+0.5												

Focus 23.65"

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp	REMARKS
8 45	55 W	37 41	1-2	714	K0	$\frac{1}{2}$ - $\frac{1}{2}$ - $\frac{1}{2}$	
10 12	45 W	37 04	1-2	789	M6	$\frac{1}{2}$ - $\frac{1}{2}$ - $\frac{1}{2}$	Seemg very variable sometimes 0
11 06	8 ^m W	4 00	1	6.56	A0	$\frac{1}{2}$ - $\frac{1}{2}$ - $\frac{1}{2}$	
00 01	27 W	11 05	1	714	G5	$\frac{1}{2}$ - $\frac{1}{2}$ - $\frac{1}{2}$	
0 15	50 W	28 32	1	745	A0	$\frac{1}{2}$ - $\frac{1}{2}$ - $\frac{1}{2}$	
15	(23W)	60 42	1	724	K0	$\frac{1}{2}$ - $\frac{1}{2}$ - 7.5	First replica haze at 22 30, sky slowly clearing for the sun. Star gone at 03 05. Sky remaining clear.
							May 4/43 m.s.w. -16.7 s.t.w. 22 +000 W.B.E.N.

213

Date Tuesday May 4-5, 1942 H-No. 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
8758	HD 82780	09 29.1	+40 24	I-25	E-103a-0	^{Set} 008	+11.9	20 03	21 09	1 2 15 W
8759	99947	11 25.0	+47 12	"	"	"	+11.8	21 12	22 08	2 1 W
8760	108 85	12 26.3	+38 10	"	"	"	+11.8	22 12	23 12	3 15 W
8761	114389	13 03.4	+19 15	"	"	"	+11.8	23 15	00 43	4 2 34 W
8762	133485	14 59.6	+34 56	"	"	"	+11.7	00 47	02 27	1 1 58 W
8763	155646	17 07.8	+00 29	"	"	"	+11.7	02 32	03 12	1 04 W
8764	179933	19 09.4	+65 49	"	"	"	+11.7	03 49	04 17	3 2 19 E
	Source test = outside - from base 7 ^s -5 ^s									

Temperature set 30 (and by rote), From 23.58

Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS										
2 03W	+40 13	1-2	7.2	F2	1 1/2 1/2 1/2 Brighter component. good										
1 11W	+46 58	2	7.49	K0	1 1/2 1/2 1/2 good										
1 15W	+07 56	2	7.34	K5	1 1/2 1/2 1/2 Large small but unsteady. little work										
2 04W	+19 01	2-1	7.48	K0	1 1/2-1 1/2-1 1/2 good										
1 58W	+34 48	2-1-0	7.43	K0	1 1/2-1 1/2-1 1/2 Seeing variable good										
1 04W	+00 27	0	6.94	F5	1 1/2 1 1/2-1 1/2 sky getting busy 03 10 - clearing 23 20 1 1/2										
0 19E	+65 55	1	6.25	A2	1 1/2-1 1/2-1 1/2 to be gotten fairly heavy										
<p>May 6</p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="text-align: center;">m.c.</td> <td style="text-align: center;">s.e.</td> <td style="text-align: center;">s.w.</td> <td style="text-align: center;">m.w.</td> <td style="text-align: center;">s.w.</td> </tr> <tr> <td style="text-align: center;">+30.5</td> <td style="text-align: center;">+01.26.8</td> <td style="text-align: center;">+56.7</td> <td style="text-align: center;">-18.9</td> <td style="text-align: center;">00.0</td> </tr> </table>						m.c.	s.e.	s.w.	m.w.	s.w.	+30.5	+01.26.8	+56.7	-18.9	00.0
m.c.	s.e.	s.w.	m.w.	s.w.											
+30.5	+01.26.8	+56.7	-18.9	00.0											

215

Date *Thursday 9 May 6-7/43 No-L* Julian Day *24308.51*

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
8765	H.D. 89389	10 13.8	+54 18	1-25"	E-103a-D	<i>Set.</i> .028	+19.6°C	20 13	21 03	1 125W
8766	101604	11 36.4	+55 43	"	"	"	+19.5	21 07	23 01	2 201W
	<i>Focus test - outside thru base - 7^g-5^s</i>									

Murky clouds during day - clearing at sunset.

ending Time
E.S.T.

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

Temp set 13.2 - end plug in.
Focus set 23.47:

REMARKS

1 25W	+54 05	1-2	6.94	F8 1 $\frac{1}{2}$ -1 $\frac{1}{2}$ -1 $\frac{1}{2}$
-------	--------	-----	------	--

light haze 21.50 - slowly getting thicker 22.30

star gone 23.00.

no signs of clearing 23.45 - closed up!

9 May 8/43 $\begin{matrix} \text{MTW.} \\ \text{S} \end{matrix}$ -2.0 $\begin{matrix} \text{STW.} \\ \text{m} \end{matrix}$ +0.2 RESET

Date Saturday, May 8-9, 1943 H-No Julian Day 543053

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
8767	HD 98960	11 18.2	+0 41	I-25	F-103a-0	5.2 009	+11.0	20 08	21 24	3
8768	101151	11 33.3	+34 12	"	"	"	+11.0	21 27	22 51	4
8769	117261	13 24.1	+41 15	"	"	"	+11.1	22 54	00 52	1
8770	136643	15 16.7	+25 20	"	"	"	+11.0	00 56	02 30	2
8771	156593	17 13.4	+23 13	"	"	"	+11.0	02 34	04 10	2
Focus test - outside thru base					7 ^s - 5 ^s					

Clouds - rain most of day clearing around sunset.
 strong NE to NW wind.

218

Transit at 23.00

Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS												
0 51 W	+0 28	0-1	7.26	K0	1 1/2 - 1 1/2 - 1 1/2												
2 02 W	+33 57	0-1	7.43	K2	1 1/2 - 1 1/2 - 1 1/2												
2 14 W	+41 01	0-1	7.54	K0	1 1/2 - 1 1/2 - 1 1/2												
1 59 W	+25 12	0-1	7.44	K0	1 1/2 - 1 1/2 - 1 1/2 seeing variable												
1 43 W	+23 10	1	7.60	K2	1 1/2 - 1 1/2 - 1 1/2 - Optical double?												
					<table border="0" style="width: 100%;"> <tr> <td></td> <td>MC</td> <td>SC</td> <td>SW</td> <td>MT</td> <td>ST</td> </tr> <tr> <td>May 11</td> <td>12</td> <td>+26.0</td> <td>+1 29.8</td> <td>-1^m 14^s</td> <td>-01.3 +0.3^m</td> </tr> </table>		MC	SC	SW	MT	ST	May 11	12	+26.0	+1 29.8	-1 ^m 14 ^s	-01.3 +0.3 ^m
	MC	SC	SW	MT	ST												
May 11	12	+26.0	+1 29.8	-1 ^m 14 ^s	-01.3 +0.3 ^m												

Date May 13-14 ThurY-NoL

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
8773	HD 93075	10 39.8	57 26	I-25	E103a-0	set 008	+11.0	8 14	10 14	2
8774	HD 112486	12 51.9	54 39	"	"	"	+11.0	10 20	10 40	3
8775	HD 117200	13 23.7	65 15	"	"	"	+11.0	10 45	11 35	4
8776	HD 117201	"	65 13	"	"	"	+11.0	11 38	00 15	1
8777	HD 145694	16 07.2	56 06	"	"	"	+11.0	00 54	02 38	2
8778	{ HD 157967	17 21.4	17 00	"	"	"	+11.0	02 43	04 13	3
	{ Focus lost									

Outside through base

Srs Watch ^{hand} apparently - 0.5^m

222

Focus 23.60

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp	REMARKS						
10 14	2 40 W	57 13	1-2-0	7.31	FO 1/2-1/2-1/2	clouds clouds and clouds. centre exps 9 30+						
10 40	5 2 W	54 24	1	5.90	A2 1/2-1/2-1/2	beautiful double line						
11 35	7 7 W	65 02	1-2	6.94	FO 1/2-1/2-1/2							
0 0	2 30 W	65 02	1	7.29	FO 1/2-1/2-1/2							
02	1 37 W	56 00	1	7.59	K0 1/2-1/2-1/2							
04 13	1 57 W	16 59	1	7.64	M0 1/2-1/2-1/2							
					7.5	May 14						
						<table border="0"> <tr> <td><u>m.T.W.</u></td> <td><u>S.T.W.</u></td> <td></td> </tr> <tr> <td>-0.9</td> <td>+0.3</td> <td>W.B.E.N.</td> </tr> </table>	<u>m.T.W.</u>	<u>S.T.W.</u>		-0.9	+0.3	W.B.E.N.
<u>m.T.W.</u>	<u>S.T.W.</u>											
-0.9	+0.3	W.B.E.N.										

223

Date Friday, May 14-15, 1943 H-L Julian Day 194

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	
8779	HD 99967	11 25.0	+47 12	I-25	E-103a-0	set 008	+12.6	20 15	21 45	4
8780	108861	12 25.4	+59 19	"	"	"	+12.7	21 50	23 30	1

Sunday, May 16-17, 1943 H-No

Clearing late afternoon with surt SW wind. Temp 70°F
 at 19⁰⁰ the telescopes & films were very wet. Mr. M. had no effect
 up and opened windows. Plugged in greenhouse heater.
 Delayed opening due to strong wind & certainty of fogging mirrors.
 At 22⁰⁰ things were drying out somewhat. Partly opened mirror, but
 saw that it was heavily fogged.

Left greenhouse heater on. Still warm SW wind & lightning over lake

Date Sunday May 16-17 H.N.O. 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
8781	H.D. 144046	15 58.8	+05 16	1-25"	E-103a-D	Set. .008	+18.0°C	01 31	03 11	2
<p>Wednesday May 19-20/43 Y - No</p> <p>Cloudy during night up to 02:30 E.S.T. when sky showed some signs of breaking - scattered clouds becoming progressively thinner up to 04:00</p> <p style="text-align: right;">No</p>										

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp.	REMARKS
						Rain in the afternoon and early evening. Cloudy late evening breaking with a fresh N. wind.
0 ²⁷	1 ²⁰ W	16 47	0-1	7.94	Ma $\frac{1}{2}$ - $\frac{1}{2}$ - $\frac{1}{2}$	Focus set at 23.60 little change
0 ³⁰	0 ²⁵ E	25 00	1	6.88	F ₀ $\frac{1}{2}$ - $\frac{1}{2}$ - $\frac{1}{2}$ 7-5	O.K.

229

Date *Saturday May 22-23, 1943 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
8784	HD 99967	11 25.0	+47 12	I-25	E-103A0	^{set} 008	+17.8	20 26	22 26	1
8785	" 117710	13 27.0	+42 36	"	"	"	+17.7	22 40	22 40	2
8786	" 132879	14 56.4	+22 29	"	"	"	+17.7	23 45	01 45	3
8787	" 172631	18 36.2	+30 46	"	"	"	+17.5	01 40	03 40	4
		<i>Good</i>				<i>Check through box</i>				
<p><i>Sunday May 23-24/43 No</i></p> <p><i>sky filling in towards sunset - later - raining out somewhat but still very murky - no sign of improvement at 01:30 E.S.T.</i></p> <p style="text-align: right;"><i>No</i></p>										

230

South to SE wind, haze night clouds after sunset.
 From set 23.48

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
9:00	2 20 W	+46 57	1-2	7.49 K0	1 $\frac{1}{2}$ 1 $\frac{1}{2}$ 1 $\frac{1}{2}$	Haze
9:07	1 53 W	+42 23	1-0	7.15 K0	1 $\frac{1}{2}$ 1 $\frac{1}{2}$ 1 $\frac{1}{2}$	Wind shifting N $\frac{1}{2}$ W, and seeing haze thinning out, some very poor at times
9:15	2 30 W	RR 15	1-0	7.45 K0	1 $\frac{1}{2}$ 1 $\frac{1}{2}$ 1 $\frac{1}{2}$	Haze
9:17	2 54 W	30 49	1-0	7.48 K0	1 $\frac{1}{2}$ 1 $\frac{1}{2}$ 1 $\frac{1}{2}$	Haze.

17.5

Note 6 degree rise in temperature of spectrophotometer since previous evening.

		MC	SC	SW	MT ST	
May 25	12	+40.7	+25.5	-2 19.5	-22.9	+0.4 ^m

Focus not changed.

Ending Time
E.S.T.Hour Angle
End

Declination

Seeing

Ptg. Mag.

Comp.

REMARKS

9 00

21 W

41 10

2

6.37 A3

 $1\frac{1}{2} - 1\frac{1}{2} - 1\frac{1}{2}$

OK

~~12 15~~~~2 10~~~~6.13 A3~~ ~~$1\frac{1}{2}$~~ ~~heavy haze~~

Focus not changed.

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp	REMARKS														
		46 59	2	7.49 KO	1/2-	clouds almost from start.														
						<p>Sky breaking 22.00 - scattered clouds thinning out up to 00.00 - suddenly filling in solid 00.15 - still solid 04.30.</p> <p style="text-align: right;">No.</p>														
						<table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th></th> <th>h</th> <th>MC</th> <th>SC</th> <th>SW</th> <th>MT</th> <th>ST</th> </tr> </thead> <tbody> <tr> <td>May 28</td> <td>12</td> <td>+41.2</td> <td>+21.4</td> <td>+226.9</td> <td>-17.6</td> <td>+0.5_m</td> </tr> </tbody> </table>		h	MC	SC	SW	MT	ST	May 28	12	+41.2	+21.4	+226.9	-17.6	+0.5 _m
	h	MC	SC	SW	MT	ST														
May 28	12	+41.2	+21.4	+226.9	-17.6	+0.5 _m														

235

Date Friday, May 28-29, 1943 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
8789	H.D. 99967	11 25.0	+47 12	I-25	E-103a-D	^{set} 038	16.8	20 30	22 30	
8790	122675	13 59.2	+46 15	"	"	"	16.7	22 04	23 48	
8791	133383	15 26.7	+37 09	"	"	"	16.7	22 43	01 13	2 W
8792	161932	17 49.7	+39 28	"	"	"	16.4	01 19	00 49	W
8793	{ 187641 Focus Test	19 35.2	+08 17	"	"	"	16.4	02 54	03 54	
						Outside through base				

Focus not changed.

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
	39 W	+47 00	1	7.49 K0	$\frac{1}{2}$ $\frac{1}{2}$ $\frac{1}{2}$	
	1 10 W	+46 01	1-2	7.54 K5	$\frac{1}{2}$ $\frac{1}{2}$ $\frac{1}{2}$	
	1 51 W	+37 00	1-2	7.52 K0	$\frac{1}{2}$ $\frac{1}{2}$ $\frac{1}{2}$	
	1 W	+39 19	1-2	7.56 K0	$\frac{1}{2}$ $\frac{1}{2}$ $\frac{1}{2}$	
	1 08 W	08 25	1	7.15 K2	$\frac{1}{2}$ $\frac{1}{2}$ $\frac{1}{2}$	
					7.5	

237

Date Sat May 29-30

Y-L

Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
	HD 93075	10 39.8	57 26	I-25	E1030-O	008		8 40		
8794	HD 117281	13 24.2	51 06	"	"	"	19.0	9 39	10 49	32W
8795	HD 122866	13 59.3	51 27	"	"	"	19.1	10 53	11 29	41W
8796	HD 134493	15 05.1	50 27	"	"	"	18.9	11 33	00 47	51W
8796 F	focus lost			Outside through box						

Focus set 23.47

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp.	REMARKS
			1-0	731	F0	clouds.
10 49	1 32W	50 51	0-1	6.85	A3	$1\frac{1}{2}-1\frac{1}{2}-1\frac{1}{2}$ good
11 29	1 41W	51 15	1	6.05	A0	$1\frac{1}{2}-1\frac{1}{2}-1\frac{1}{2}$ good
0 "	1 55W	50 16	1-2	7.27	K0	$1\frac{1}{2}-1\frac{1}{2}-1\frac{1}{2}$ good 7.5 Have to ward end of exposure sky clouding over completely. Wanted more 2.00 then looked up sky still thick.

Focus not changed

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp.	REMARKS
	1 05 W	-23 48	2	7.17	K2 1/2-1/2-1/2	Sky very murky during evening - trying
3 42	6 27 W	+37 20	2	7.15	K0 1/2-1/2-1/2	To thin out occasionally - improving steadily 20:30 sky slowly hazy in 22:30

	MC	SC	SW	MT	ST
Jun. 2 12	+42.2	+15.9	+06.6	-06.8	+0.6 ^m
			Reset (gaining about 4 ^s a day)		

241

Wednesday.

Date June 2-3.

Y. No.

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
8799	HD 99967	11 250	47 12	I-25	E103a-0	008	+25.9	8 40	10 10	3
8800	HD 120874	13 471	59 02	"	"	"	26.0	10 16	10 55	4
8801	HD HD 438									
H-No changed to Newtonian after dawn.										
Thursday June 3-4/43										
Sky breaking 00:00 EST but filling in again after a few minutes - breaking again 00:45 - thickly scattered clouds up to 01:30 - sky improving steadily thereafter but still very murky around horizon - slowly filling in again 02:30										
No.										

Focus set 23.37

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp.	REMARKS
10 10	08 W	+46 59	1	7.49	K0	1/2-1/2-1/2	some clouds. OK
10 55	1 30 W	58 48	1	6.36	A0	1/2-1/2-1/2	nothing after 10 ⁵⁵ OK

MC SC SW MTW STW
 Jun. 4 12 +42.1 +13.5 -04.5 -03.7 +0.6

243

Date Friday June 4-5, 1943 S-N-H Julian Day.....

Plate No.	Object	R.A. 1900-42	Declination 1900-	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
8801	NGC 5904	15 15.4	+02 19	Newtonian	E-103a-D			21 04	21 56	
8802	5466	14 03.1	+28 48	-	-			21 17	21 25	0 E
8803	5053	13 13.6	+18 01	-	-			21 34	21 44	03 W
8804	5904	15 15.4	+02 19	-	-			21 48	21 52	0 E
8805	5466	14 03.1	+28 48	-	-			21 58	22 08	0 E
8806	5053	13 13.6	+18 01	"	"			22 13	22 25	2
8807	5904	15 15.4	+02 19	-	-			22 40	22 44	
8808	5466	14 03.1	+28 48	-	-			22 53	23 03	0 E
8809	5053	13 13.6	+18 01	-	-			23 08	23 18	
8810	5904	15 15.4	+02 19	"	"			23 24	23 28	0 W
8811	5466	14 03.1	+28 48	-	-			23 35	23 46	0 W
8812	5053	13 13.6	+18 01	-	-			23 52	00 02	0 W
8813	5904	15 15.4	+02 19	-	-			00 19	00 23	1
8814	5466	14 03.1	+28 48	-	-			00 28	00 40	2
8815	5053	13 13.6	+18 01	-	-			00 46	1 00	0 W
8816	5904	15 15.4	+02 19	-	-			1 05	1 09	0 W

Strong west wind.

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
					Focus on δ Virginis. Seeing looked poor. Not guided - too light to find guide star.
21:00	0 01 E				Clouds delayed start
21:00	1 03 W		very poor		Bright guide star.
21:00	0 51 E				Very strong NW wind.
22:00	0 29 W		poor		
22:00	1 42 W				
22:00	0 00 W				
23:00	1 54 W				
23:00	0 44 W				
23:00	2 06 W				
00:00	3 21 W				# Gaining the plate Telescope shaking in the wind.
00:00	3 10 W				
01:00	4 20 W	Seeing absolutely zero.			Wind too strong to work longer in the night.
01:00	2 27 W				

245

Date *Friday June 4-5 (continued)* S N-H Julian Day.....

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Angle End
8817	NGC 6366	17 24.4	-05 01	Niant.	E-103a-0			1 15	1 25	31 W
4818	6333	17 15.7	-18 27	"	"			1 28	1 35	50 W
8819	5904	15 15.4	+02 19	"	"			1 45	1 49	30 W
8820	6779	19 14.2	+30 04	"	"			1 54	2 04	37 E
8821	6333	17 15.7	-18 27	"	"			2 08	2 18	36 W
4822	5904	15 15.4	+02 19	"	"			2 22	2 26	43 W
8823	6779	19 14.2	+30 04	"	"			2 31	2 38	45
8824	6366	17 24.4	-05 01					2 43	2 55	30 W
8825	6770	19 14.2	+30 04					3 00	3 05	2 W
8826	7029	21 30.2	-01 07					3 17	3 21	31 E

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
1 25	0 34 W				
1 35	0 55 W		Poor		Seeing better than in W, but poor. Good guide star ← Focus λ Ap ₁₆ 16 27.9 + 02 07
1 49	3 06 W				
2 01	0 37 E				
2 15	1 36 W		Very poor		
2 30	3 43 W		"		
2 32	2 21 E		"		
2 55	05 W				
3 05	2 26 W				
3 22	1 36 E				Scudding all but one plate

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
21 36			good		
21 47			"		
21 5			good		start delayed by clouds.
22 9	0 30 E		"		
22 21	1 03 W		"		
22 38	2 09 W		"		seeing improving greatly
22 51	0 20 W				
23 14	1 57 W				
23 24	1 05 E				In clouds half the time - finally solid

249

Date Tuesday June 8-9, 1943 S-No-17 Julian Day

Plate No.	Object	R.A. 1900 42	Declination 1900 42	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Star Angle End
8836	NBC 5904	15 15.4	+02 19	Newtonian	E-103a-D			21 57	21 57	26E
8837	5466	14 03.1	+28 48	-	-			21 55	22 05	31W
8838	5053	13 13.6	+18 01	-	-			22 11	22 23	39W
8839	5904	15 15.4	+02 19	-	-			22 29	22 32	37W
8840	5466	14 03.1	+28 48	-	-			22 36	22 46	32E
8841	5053	13 12.6	+18 01	-	-			22 52	23 02	37W
8842	5904	15 15.4	+02 19	-	-			23 11	23 14	37W
8843	5466	14 03.1	+28 48	-	-			23 21	23 33	39W
8844	5053	13 13.6	+18 01	-	-			23 38	23 50	36W
8845	6366	17 24.4	-08 01	-	-			25 56	26 06	
8846	5904	15 15.4	+02 19	-	-			00 10	00 12	37W
8847	5466	14 03.1	+28 48	-	-			00 19	00 31	35W
8848	5053	13 13.6	+18 01	-	-			00 35	00 49	35W
8849	6779	19 14.2	+30 01	-	-			00 55	01 03	36E
8850	6333	17 15.7	-18 27	-	-			01 09	01 17	37W
8851	5904	15 15.4	+02 19	-	-			01 21	01 24	37W

Cloudy at dawn, slowly clearing

250

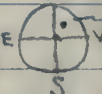
Forecast on 109 Virginia

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
21 07	0 36 E				} Number of plates; about half of plates in this box broken or cracked.
21 08	0 51 W				
22 25	1 59 W				
22 30	2 05 W	fair			
22 33	1 32 E	"			
22 38	2 37 W	"			
23 00	0 47 W	"			
23 08	2 19 W	"			
23 15	3 26 W	"		Haze	
01 01	1 46 W				
01 02	3 18 W				
01 04	4 25 W				
01 08	1 22 E				
01 10	0 51 W				
01 24	2 57 W				

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
01 42	7 29 W					Focus tested on W Aquilae
02 00	2 25 E					
02 19	8 06 W					
02 32	1 58 W					cut exposure as a result of clouds!
						Squad all but one

Focus 23.45^m Watch +0.9^m

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp.	REMARKS
10 7	3 42 W	46 59	0	7.49	K0	1/2 1 1/2 1/2	(with wind)
12 03	3 01 W	61 45	0	7.59	K5	1/2 - 2 1/2	(with wind)
01 2	1 18 W	65 07	0	6.72	F0	1 1/2 - 1 1/2 - 1 1/2	good
03 25	2 24 W	23 56?	1	6.92	G0	1 1/2 - 1 1/2 - 1 1/2	very busy at 02:00 with thick murky clouds from 02:15 on. good


 H.D.153597 (Fr)

Jun. 10 MC SC SW MT_m ST_m
 +41.1 +0.6.3 +34.5 +04.1 +0.8

255

Date Thursday June 10-11

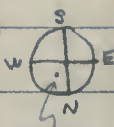
Y-No

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
8860	HD 117405	13 25.0	6 32	1-25	F103A-P	010	+20.8	8 52	10 52	1
8861	HD 139862	15 35.4	12 23	"	"	"	+20.6	10 57	00 11	2
8862	HD 154619	17 01.5	10 35	"	"	"	+20.7	00 15	02 07	3
8863	HD 184944	19 31.7	14 10	"	"	"	+20.6	02 14	03 52	4
<p>Friday, June 11-12, 1943 H-L</p> <p>cloudy early evening. Partially clearing around 11³⁰. Clouds again.</p>										

focus not changed.

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp.	REMARKS
10 52	2 21	+6 17	0	7.41	K0	$1/2-1/2-1/2$	passing clouds - mostly clouds. little weak
00 11	1 32W	12 14	1	7.09	G5	$1/2-1/2-1/2$	good
02 07	2 01W	10 29	0	7.45	K0	$1/2-1/2-1/2$	good
03 52	1 17W	14 14	0	7.47	K0	$1/2-1/2-1/2$	good



HD. 184909 (K2)

	MC	SC	SW	MT	ST
Jun. 11	+41.0	+05.4	-28.6	+04.3	+0.8 ^m

257

Date *Sunday, June 13-14, 1943* H. No. _____ Julian Day _____

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.
9864	HD 137390 I ₀ cross test - outside th. in base	15 20.7	+45 37	I-25	E-103a-0	^{set} 008	+23.0	23 02	01 04
								call cross	23 ⁵⁰

Star Angle
End

1524

259

Date Monday June 14-15/43 L. No 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
8865	H.D. 145931	16 08.5	42 38	I-25	E-103 _u -0	set .008	21.2	23 20	01 30	E 34W
	Focus test - outside the base. 7 ^s -5 ^s									
8866	H.D. 188350	19 49.6	+00 01	I-25	E-103 _u -0	set. .008	20.8	03 07	03 37	3 34W
Tuesday June 15-16 H-No										
<p>Handwritten notes:</p> <p>Handwritten notes + clouds only evening. Photo off. Stars faintly showing, 5 photos of sky, out. Photo. etc. from 7:00 pm to 8:00 pm. Stars off all evening. Clouds were not with it. Stars were faintly showing. 11^h - 12^h 15^m.</p>										

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS														
					Focus unchanged.														
					Clouds at sunset and early evening, breaking and hazy over alternately. Finally seeming to settle.														
01.30	2 34 W	42 31	0	7.19 K5	$1\frac{1}{2}$ - $1\frac{1}{2}$ - $1\frac{1}{2}$ Haze slowly thickening 00.30 - sky very thick 01.30-03.00 - then improving														
03.37	0 5-9 W	+00 06	1	5.57 A0	$1\frac{1}{2}$ - $1\frac{1}{2}$ - $1\frac{1}{2}$ Filling in again 03.25 - clouded out 03.35														
<p>Note:- Plates 8864-66 were loaded in cameras on June 10-11 and left in boxes in interval.</p>																			
<table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th></th> <th></th> <th>MT</th> <th>SC</th> <th>SW</th> <th>MT</th> <th>BT</th> </tr> </thead> <tbody> <tr> <td>Jun. 15</td> <td>12</td> <td>+40.4</td> <td>+04.1</td> <td>-66.3</td> <td>+08.8</td> <td>+0.7^m</td> </tr> </tbody> </table>								MT	SC	SW	MT	BT	Jun. 15	12	+40.4	+04.1	-66.3	+08.8	+0.7 ^m
		MT	SC	SW	MT	BT													
Jun. 15	12	+40.4	+04.1	-66.3	+08.8	+0.7 ^m													

261

Date *Thurs June 17-18*

Y-L

Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
8867	HD 122744	13 58.6	8. 01	I 25"	F103a 0	010	+24.0	8 54	10 24	1 47W
8868	HD 140438	15 38.5	13 59	"	"	"	24.0	10 28	00 10	4 53W
8869	HD 155500	17 06.9	08 01	"	"	"	23.9	00 30	02 30	1 4W
8870	H.D. 191329	20 04.3	49 57	" "	"	"	23.8	02 35	03 35	2 13W
	<i>Focus lost</i>				<i>Outside through base</i>					

Motor gen middle free in ad. Bldg. Blown.

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp	REMARKS
10 24	47W	7 47	0	7.35	K0	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	Focus unchanged.
11 5	53 W	13 49	0	7.22	G5	$\frac{1}{2}=\frac{1}{2}-\frac{1}{2}$	Clouds near end of exp.
02 30	46 W	07 58	0	7.39	K0	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	Start delayed by clouds, more clouds.
03 35	53 W	50 04	0	6.58	A2	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	

7-5-

Jun 18 MC SC RW
 +39.1 -02.8 -1 20.6
 MT ST
 +09.0 +0.8

263

Date Friday June 18-19/43 No. 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
8871	H.D. 99967	11 250	+47 12	1-25"	E103a-0	set. .008	+24.3°C	08 53	11 05	3
8872	H.D. 147662	16 18.1	+68 48	"	"	"	+27.2	11 13	01 03	4
8873	169 221	18 186	+49 40	"	"	"	24.1	01 07	01 40	1
	Focus Test			Outside	through	base				

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp.	REMARKS
						Flare unchanged!
11 55	5 07 W	+46 58	1	7.49	K0 1 $\frac{1}{2}$ -1 $\frac{1}{2}$ -1 $\frac{1}{2}$	light clouds 09.20-10.05 — solid cloud 10.05- ^{10.20} 7
01 53	2 13 W	+ 68 41	1-0	7.47	K0 1 $\frac{1}{2}$ -1 $\frac{1}{2}$ -1 $\frac{1}{2}$	Haze, light clouds.
01		49 40	1-2	7.51	K0 1 $\frac{1}{2}$ -1 $\frac{1}{2}$ 7-5	Blanketing in suddenly at 1.40, sky remaining thick. Close up at 3.00

266

Same temp 81 on opening.
Focus set 23.33

Ending Time
E.S.T.Hour Angle
End

Declination

Seeing

Ptg. Mag.

REMARKS

21⁵⁷

1 41 W

+05 45

1

7.25

K0

 $1\frac{1}{2}$ $1\frac{1}{2}$ $1\frac{1}{2}$ 22⁵¹

2 46 W

+21 21

1

7.21

G5

 $1\frac{1}{2}$ $1\frac{1}{2}$ $1\frac{1}{2}$

Light clouds Cirrus becoming general.
Thickening up.

} Heavy clouds or
electrical storm in N.
west

267

Date June 20-21 Sunday Y - No 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
8876	HD 122910	13 59.6	2 47	I-25	E103a-O	010	+29.1	8 53	10 53	3 27W
8877	HD 153226	16 53.0	14 03	"	"	"	+28.3	10 58	12 44	4 26W
8878	H.D. 168009	18 12.7	45 10	"	"	"	+28.5	00 50	01 54	1 17W
8879	H.D. 184958	19 31.8	70 47	"	"	"	+28.6	02 02	03 42	2 14W
	Focus test - outside thru base					7 ^s - 5 ^s				

Forms 23.31

Ending Time/ E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp	REMARKS
10 53	2 27W	23 32	0	7.35	K0 1/2-1/2-1/2	image faint note temp!
12 44	1 26W	13 57	0-1	7.29	G5 1/2-1/2-1/2	haze -
01 54	1 17W	45 13	1	6.86	G0 1/2-1/2-1/2	
03 48	1 48W	70 51	1	7.32	K2 1/2-1/2-1/2	Light scattered clouds 03.00-03.30

		MC	SC	SW	MT ST	
Jun. 21	12	+38.0	-05.1	-01	23.7	+15.7 +09 ^m

Very hazy at sunset, thinning a bit,
Temp. set 23.33

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
2.15	45W	+51 15	1	6.05	A0 1½ 1½ 1½	Heavy haze thickening up fast last few minutes of exposure Too thick to start
				6.73	F0	
02.51	3 54W	+24 58	1-2	7.29	K2 1½-1½-1½	Light haze, thickening some after start, - breaking somewhat 00.58 - murky clouds moving in from N.W., 02.45

271

Date Tuesday June 22-23 Y-No 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
8882	HD 130084	14 41.1	33 13	I-25"	E103a 0	010	27.4	8 57	10 57	1 58W
8883	HD 159222	17 284	34 21	"	"	"	27.4	11 03	12 43	2 58W
8884	H.D. 172424	18 35.0	07 16	"	"	"	27.2	00 48	02 22	3 31W
8885	H.D. 186815	19 41.6	56 47	"	"	"	27.0	02 28	03 48	4 51W
	Focus test - outside thru lens									
					7 ^s -5 ^s					

Focus not changed.

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
10 57	1 58W	33 01	0-1	7.82	Ma	$1\frac{1}{2}-1\frac{1}{2}-1\frac{1}{2}$ shift in comp. weak
12 43	C 58W	34 19	0-1	7.32	G5	$1\frac{1}{2}-1\frac{1}{2}-1\frac{1}{2}$ good
22 22	1 31W	07 18	0-1	7.36	Ko	$1\frac{1}{2}-1\frac{1}{2}-1\frac{1}{2}$ little weak
23 48	1 51W	56 54	1	7.17	G5	$1\frac{1}{2}-1\frac{1}{2}-1\frac{1}{2}$ light clouds 03:15-04:00
						<div style="display: flex; justify-content: space-around;"> MC SC SW MT ST </div> <div style="display: flex; justify-content: space-around;"> Jun. 23 +37.1 -07.2 -1^m 01^s 7 +19.1 +0.4^m rest </div>

213

Date (1) ~~1942~~ 23-24 1943 J-H-N Julian Day

- No!

Plate No.	Object	R.A.		Declination		Instrument	Emulsion	Slit	Temperature	Starting Time		Ending Time		Hour Angle End
		1900	1912	1900	1900					E.S.T.	E.S.T.			
8886	NGC 6205	16	39.5	+36	34	Reichert	E-103a-C.			21	10	21	12	3.5
8887	5904	15	15.4	+02	19	-	-			21	20	21	23	3.5
8888	5466	14	03.1	+28	48	-	-			21	33	21	43	3.5
8889	5053	13	13.6	+18	01	-	-			21	45	21	55	3.5
8890	5466	14	03.1	+28	48	-	-			22	22	22	12	3.5
8891	5904	15	15.4	+02	19	-	-			22	22	22	26	3.5
8892	6205	16	39.5	+36	34	-	-			22	31	22	33	3.5
8893	6205	16	39.5	+36	34	-	-			22	34	22	54	3.5
8894	6366	17	24.4	-05	21	-	-			22	58	23	08	3.5
8895	6102	17	34.4	-03	12	-	-			23	11	23	27	3.5
8896	6333	17	15.7	-18	27	-	-			23	30	23	38	3.5
8897	5904	15	15.4	+02	19	-	-			23	42	23	46	3.5
8898	5053	13	13.6	+18	01	-	-			23	49	00	01	3.5
8899	5466	14	03.1	+28	48	-	-			00	05	00	15	3.5
8900	6079	19	14.2	+30	04	-	-			00	20	00	28	3.5
8901	6333	17	15.7	-18	27	-	-			00	33	00	43	3.5

Ending Time E.S.T.	Hour Angle: End	Declination	Seeing	Ptg. Mag.	REMARKS
	39 E				Focus on 139 Vir
	5 08 E				Unguided
	1 23 W				
	3 24 W				
					← Focus on 3 Serp
	3 53 W				
	4 18 E				
	4 41				
	4 28 E				
	4 19 E				
	4 11 W		seeing remarkable!	(good)	
	4 19 W				
	4 36 W				
	4 41 W				
	4 51 E				
	4 46 W				← focus on E Aurigae 11000 ...

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
01 15	01 19W				
01 20	05 09W				Check back the ...
01 30	02 12W				
01 50	03 27W				
02 05	02 32W	← Strom Ophiuchi			
02 10	12 13W				
02 27	01 04W				
02 40	01 25W				
02 55	04 07W				Spreading all plants fine ...

277

Date Monday June 24th 1902 - 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
8911	NGC 6205	16 39.5	^{19.72} +36 34	Newt.	E-103a0			21 15	21 11	1 E
8912	" 5904	15 15.4	+02 19	"	"			21 22	21 25	2 W
8913	" 5466	14 03.1	+28 48	"	"			21 29	21 31	1 W
8914	" 5053	13 13.6	+18 01	"	"			21 43	21 53	E W
8915	" 5466	14 03.1	+28 48	"	"			21 55	22 03	1 W
8916	" 5904	15 15.4	+02 19	"	"			22 12	22 14	E W
8917	" 6205	16 39.5	+36 34	"	"			22 20	22 22	E
8918	" "	"	"	"	"			22 24	22 54	E W
8919	" 6402	17 34.4	-03 12	"	"			22 58	23 12	1 W
8920	" 6366	17 24.4	-05 01	"	"			23 12	23 26	2 W
8921	" 6333	17 15.7	-18 27	"	"			23 29	23 45	1 W
8922	" 5904	15 15.4	+02 19	"	"			23 51	23 57	E
8923	" 5466	14 03.1	+28 48	"	"			23 57	0 07	1 W
8924	" 5053	13 13.6	+18 01	"	"			00 11	00 23	E W
8925	" 6260	19 08.0	+00 52	"	"			00 28	00 58	1 E
8926	" 6402	17 34.4	-03 12	"	"			01 09	01 23	E W

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
	1 31 E		not very good		Focus on 109 Virgins (3 rows out of four)
21 25	0 31 W				
21 34	0 28 W				
21 43	2 31 W				
22 02	1 52 W	← refocused			(about 1 row change)
22 14	0 51 W				
22 22	0 26 E		variable good at times		
22 34	C 09 W				
22 42					
22 50	0 07 E				
22 52	0 24 W				← Focus on 3 Serpens, 15 12.2 - 15-09
23 01	2 30 W				
0 07	3 56 W				
0 13	5 02 W				
0 18	0 18 E	← refocused			from pretty good
0 22	1 41 W				

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
01 ³⁷	2 14 W				
01 ⁵	2 22 W				Passing light clouds, guide star out, clouds too heavy to continue program there On small plates. Squinting all plates
02 ¹⁰	0 49 W				
02 ²¹	2 49 W				
02 ⁴⁴	3 12 W				
02 ⁴⁷	4 05 W				
03 ⁰⁴	1 43 W				
03 ¹³	0 25 E				

Sky clearing over at sunset, breaking later
 hazy over N. Superior

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
	0 47 W				Hazy, no guide star
	0 57 E				Mod. Hazy, guide star
	1 28 W				Hazy, guide star faint.
	1 51 W				Sky thickening
	2 41 E				Star still twinkling, filling in solid. Sky has improved, plate taken at 2:45, but then out of focus until all night.
					All small plates

Focus 23.30

Lazy at first.

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp	REMARKS												
11 30	76 ^m W	27 32	1	7.37	K2	1/2-1/2-1/2													
11 57	1 55 W	6 40	1	7.24	K0	1/2-1/2-1/2													
12 24	3 01 W	39 13	1-0	7.73	K5	1/2-1/2-1/2	seeing variable - sky thickening up with haze 03.10												
							<table border="0"> <tr> <td></td> <td>mic.</td> <td>sc.</td> <td>Root S.W.</td> <td>Root M.T.W.</td> <td>Stu m</td> </tr> <tr> <td>June 28</td> <td>+34.8</td> <td>-09.3</td> <td>+10.3</td> <td>+18.1</td> <td>+0.2</td> </tr> </table>		mic.	sc.	Root S.W.	Root M.T.W.	Stu m	June 28	+34.8	-09.3	+10.3	+18.1	+0.2
	mic.	sc.	Root S.W.	Root M.T.W.	Stu m														
June 28	+34.8	-09.3	+10.3	+18.1	+0.2														

Cloudy most of day. Clear at sunset
 the clouds again.

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From set 2339

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS																		
0 40 W			1	718	K.O. 1 1/2	2 1/2" stars. 1 1/2" from center. Thick clouds 1" from center. 1/2" from center. 1/2" from center.																		
						<table border="0"> <tr> <td></td> <td>MC</td> <td>SC</td> <td>SW</td> <td>MT</td> <td>ST</td> </tr> <tr> <td>Jun. 28</td> <td>+34.8</td> <td>-09.3</td> <td>+10.3</td> <td>+18.1</td> <td>+0.2^m</td> </tr> <tr> <td></td> <td></td> <td></td> <td>rest</td> <td>rest</td> <td></td> </tr> </table>		MC	SC	SW	MT	ST	Jun. 28	+34.8	-09.3	+10.3	+18.1	+0.2 ^m				rest	rest	
	MC	SC	SW	MT	ST																			
Jun. 28	+34.8	-09.3	+10.3	+18.1	+0.2 ^m																			
			rest	rest																				
						+0.2																		
						F.W.																		

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Date Monday, June 28-29, 1943 - H. No. 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
8944	H.D 127043	14 24.1	+28 44	I-25	E-1030-0	008	+25.6	20 55	22 55	2
8945	149084	16 27.4	+35 27	"	"	"	+25.5	22 58	01 24	3
8946	181597	19 16.0	+49 23	"	"	"	+25.0	01 28	03 42	4
Focus test - outside thru lens 7 ^f - 5 ^s										

From set to 23.371

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS																		
2 55	2 37 N	+28 32	1	7.45	A0	1 $\frac{1}{2}$ 1 $\frac{1}{2}$ 1 $\frac{1}{2}$ Fainter preceding of pair. Light haze at hist ^{little work}																		
01 24 3	3 04 W	-35 19	1-0	7.65	K5	1 $\frac{1}{2}$ -1 $\frac{1}{2}$ -1 $\frac{1}{2}$ ^{little work}																		
02 42	2 35 W	+49 26	1-0	7.26	K0	1 $\frac{1}{2}$ -1 $\frac{1}{2}$ -1 $\frac{1}{2}$ sudden clouds 02 50 from N.W. - star ^{little work} gone 02 55 - 03 25 gone for good 03 40.																		
						<table border="0"> <tr> <td></td> <td>MC</td> <td>SC</td> <td>SW</td> <td>MT</td> <td>ST</td> </tr> <tr> <td>June 30</td> <td>2</td> <td>+23.8</td> <td>-00.8</td> <td>+07.9</td> <td>+15.6 +02</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>(rest)</td> </tr> </table>		MC	SC	SW	MT	ST	June 30	2	+23.8	-00.8	+07.9	+15.6 +02						(rest)
	MC	SC	SW	MT	ST																			
June 30	2	+23.8	-00.8	+07.9	+15.6 +02																			
					(rest)																			

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Date Wednesday June 30 - July 1 Y-No Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	H	Hour Angle End
8947	HD 127067	14 24.2	28 44	I-25	E103a-0	010	17.8	8 56	10 16	1	55 ^h W
8948	HD 154126	16 58.5	32 02	"	"	"	18.0	10 21	11 51	2	07 ^h W
8949	HD 164824	17 57.9	33 20	"	"	"	18.0	11 56	01 30	3	47 ^h W
8950	H.D. 186021	19 36.9	22 13	"	"	"	18.0	01 35	03 15	4	52 ^h W
8951	H.D. 199611	20 53.3	50 21	"	"	"	17.9	03 20	03 50	1	2 ^h W
	Focus test - 2 trials thru base 7 ^s - 5 ^s										

Focus set 23.48

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp	REMARKS
10 16	1 ^h 55 ^m W	28 32	0	6.95	F0	1/2 1/2 1/2	* looks v faint but in sight *
11 51	67 ^m W	31 57	0-1	7.60	K0	1/2 1/2 - 1/2	
1 30	1 47 W	33 18	1	7.45	K5	1/2 - 1/2 - 1/2	
2 8	1 53 W	22 19	1-0	7.57	Ka	1/2 - 1/2 - 1/2	
3 8	1 12 W	50 30	1-0	6.08	F0	1/2 - 1/2 - 1/2	to file good photo

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Date Thursday July 1-2/43 L. No. Julian Day*Sidereal 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
8952	H.D. 138383	15 26.7	37 09	I-25	E-103a-0	5el 008	21.0	15 20	17 20	1 32 W
8953	" 160822	17 36.9	31 22	"	"	"	21.0	17 24	18 56	2 18 W
								EASTERN STANDARD TIME		
8954	H.D. 176541	18 55.7	22 40	I-25"	E-103a-0	008	21.0	00 40	02 46	3 09 W
8955	" 189127	19 53.4	57 59	"	"	"	20.9	02 51	03 53	4 20 W
	Focus took outside thru base					7" - 5"				

Focus set at 23.43

Ending Time LST	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp	REMARKS												
17 20	1 52 W	36 59	1-0	7.52	Ko $1\frac{1}{2}-1\frac{1}{2}-1\frac{1}{2}$													
19 51	1 18 W	31 19	1	7.43	Ko $1\frac{1}{2}-1\frac{1}{2}-1\frac{1}{2}$	Notes												
02 40	2 09 W	22 42	1	7.76	Ma $1\frac{1}{2}-1\frac{1}{2}-1\frac{1}{2}$													
00 53	2 20 W	58 06	1	7.19	Ko $1\frac{1}{2}-1\frac{1}{2}-1\frac{1}{2}$													
						<table border="0"> <tr> <td></td> <td>HC</td> <td>SC</td> <td>SW</td> <td>MT_s</td> <td>ST_m</td> </tr> <tr> <td>Jul. 2</td> <td>12</td> <td>+32.4</td> <td>-00.3</td> <td>+58.7</td> <td>+05.4</td> </tr> </table>		HC	SC	SW	MT _s	ST _m	Jul. 2	12	+32.4	-00.3	+58.7	+05.4
	HC	SC	SW	MT _s	ST _m													
Jul. 2	12	+32.4	-00.3	+58.7	+05.4													

293

Date *Friday, July 2-3, 1943* 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
8956	HD 135530	15 10.5	+42 33	I-25	F-1034-0	set 008	23.5	20 55	23 35	1
8957	" 159925	17 32.2	+37 22	"	"	"	23.0	23 38	00 55	2
8958	" 182635	19 20.5	+36 15	"	"	"	23.0	01 02	02 02	3
	<i>Yours best</i>				<i>Outside through lens</i>					

Focus set to 23.40

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS																		
23 ³⁵	2 46 N	+42 22	1-0-1	7.72	Ma	1 $\frac{1}{2}$ -1 $\frac{1}{2}$ -1 $\frac{1}{2}$ Set on HD 127043, but decided night not good enough. Light clouds some after start; again 22 ⁰⁵ - 23 ¹⁵ star 1/6 gone.																		
0 ⁰⁵	1 48 W	+37 18	1	7.15	K0	1 $\frac{1}{2}$ -1 $\frac{1}{2}$ -1 $\frac{1}{2}$ Heavy l. light clouds little																		
0 ²²	1 04 W	+36 20	1	7.45	K0	1 $\frac{1}{2}$ -1 $\frac{1}{2}$ -1 $\frac{1}{2}$ Sky clouding over completely at 2 ⁰⁰ 7-5																		
						<table border="0"> <tr> <td></td> <td>m.c.</td> <td>sc.</td> <td>S.W.</td> <td>mTy</td> <td>STW</td> </tr> <tr> <td>July 5</td> <td>+31.2</td> <td>+08.4</td> <td>+08.3</td> <td>-00.6</td> <td>00.0</td> </tr> <tr> <td></td> <td></td> <td></td> <td>Rail</td> <td>1.2</td> <td></td> </tr> </table>		m.c.	sc.	S.W.	mTy	STW	July 5	+31.2	+08.4	+08.3	-00.6	00.0				Rail	1.2	
	m.c.	sc.	S.W.	mTy	STW																			
July 5	+31.2	+08.4	+08.3	-00.6	00.0																			
			Rail	1.2																				

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp.	REMARKS
						Focus unchanged!
21.2	2 42W	+06 09	1	F0 6.72	1/2-1/2-1/2	sky clearing before sunset but slowly ^{wedge}
22.4	1 44W	+48 00	1	A5 6.84	1/2-1/2-1/2	hazing in shortly afterwards ^{fair} thick
23.53	1 52W	+55 48	1	F0 6.78	1/2-1/2-1/2	haze, particularly towards horizon, all during evening - clearing somewhat at midnight. Sky getting thick 03:30

297

Date *Tuesday July 6-7/43 A.*

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
8962	HD 173416	18 40.1	36 28	1-25"	E-103a-0	^{cut} .008	22.3	23 53	01 15	.3
8963	HD 189942	19 57.5	36 49	1-25"	E-103a-0	"	22.0	01 21	02 41	4
8964	HD 213272	22 25.2	35 13	1-25"	F-103a-0	"	22.0	02 53	03 53	1
	{ Focus test	outside	through	base	7s - 55					

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp	Focus unchanged.	REMARKS
01 15	1 13 W	+36 30	0-1 <i>very variable</i>	K ₀	7.25	$1\frac{1}{2} - 1\frac{1}{2} - 1\frac{1}{2}$	Cloudy in early evening. Cleared about 11:30 p.m. but
02 41	1 24 W	+36 58	1-2	K ₀	7.39	$1\frac{1}{2} - 1\frac{1}{2} - 1\frac{1}{2}$	considerable haze which finally cleared away except
03 53	0 06 W	+35 25	1-2	A ₀	6.53	$1\frac{1}{2} - 1\frac{1}{2} - 1\frac{1}{2}$	in extreme south. slight haze which became thicker

Ending Time
E.S.T.

3.28

Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp.	REMARKS
					Focus set 23.44±
04W	+32.11	1	G5 7.22	1/2-1/2-1/2	Cloudy sky of early evening breaking around midnight but filling in a short time later. Sky improving 02.00 with considerable haze in south. Zenith hazing in again (naturally) shortly after beginning exposure. Star gone most of time. <u>8965 in hold backwards</u> ?? Averaging please note.

301

Date Thursday July 8-9/43 A. 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	
8965	143209	15 540	39 58	1-25"	E-103a-0	^{set} 0.008	26.9	20 54	22 04	4	
8966	161815	17 426	39 ³⁸ 22 ⁵⁶	"	"	"	26.9	22 30	23 40	1	
8967	182488	19 128	33 01	"	"	"	26.7	23 46	00 46	2	
8968	196642	20 336	37 58	"	"	"	26.8	00 54	01 46	3	
8969	202700	21 12.7	41 50	"	"	"	26.8	01 51	02 41	4	
8970	213399	22 25.9	48 51	"	"	"	26.9	02 53	03 39	1	
	Focus test outside through base				7s-5s						
	1943 July 9. Secondary mirror for re-aligning.										

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp	Focus set 23.35"	REMARKS
22 04	0 55W	39 57	1-2	7.44	K ₀	1½-1½-1½	Is slit width correct? I reset it when setting on next star! ^{OK}
23 46	0 44W	38 54	2-3	7.56	K ₀	1½-1½-1½	Tried to set on HD 159354 but could not get image on slit ^{weak} so changed to this star. Image OK on ground glass finder
00 46	0 11W	33 04	3-2	7.50	K ₀	1½-1½-1½	image as usual - poorly guided - ^{little weak}
01 40.3	0 01E	38 07	3-2	7.32	K ₀	1½-1½-1½	^{little weak}
02 41	0 14W	42 01	3	7.60	K ₂	1½-1½-1½	a very sharp steady image ^{little weak}
03 39	0 00E	49 04	3	7.52	K ₀	1½-1½-1½	" " " " ^{poorly guided little weak}

The box of plates contains one package of
3 plates. There are no plate holders loaded.

Plate - guiding in ground glass
finder.

- comparison star in slit
finder.

304

Ending Time
E.S.T.

305

Salt 5
Mar 12 - 3rd 1902

Lat. note for report 1942 43 8939.

P-306

Lat. note	941-47	7921	100
" July		8071	129
" Aug		8200	117
" Sept		8217	104
" Oct		8421	62
" Nov		8483	18
" Dec		8501	47
" Jan		8548	43
" Feb		8591	90
" Mar		8681	70
" Apr		8751	47
" May		8798	150
" June		8948	

Small displaced to small number from above to
smaller number