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Ins is displaced to violet means
Focus should be made shorter

Pressing in right hand switch of dome turning relay
now done to East

Last plate for report 1942-43		=	8939		
"	"	June 1943	8948		
"	"	July 1943	9054	106	
"	"	Aug "	9185	131	237
"	"	Sept "	9380	195	432
"	"	Oct "	9587	207	639
"	"	Nov "	9665	78	707
"	"	Dec "	9707	42	759
"	"	Jan 1944	9779	72	831
"	"	FEB "	9825	46	877
"	"	Mar "	9908	83	960
"	"	Apr "			

Hour And
End

g Time
T.Hour Angle
End

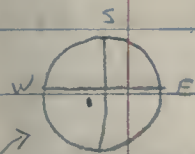
Declination

Seeing

Ptg. Mag.

REMARKS

1943 Jul. 9 MC SC SW MT ST
 +30.7 -06.6 -15.6 +03.7 +07.7



Set up & surface to
 find star; not in finding eyepiece. Reset finder wire. [Focus at 23.40]

Position of star in finder field when centered in Casagraini field. Image looks clear.

21	1	1	52 W	+17 34	0-1	7.44	K0	1 1/2 1 1/2 1 1/2	Image very unsteady & variable in size. N.W. wind
24	2	1	13 W	+28 12	1	7.66	K5	1 1/2 1 1/2 1 1/2	
27	3	2	14 W	+23 14	1-0	7.90	K5	1 1/2 1 1/2 1 1/2	
30		1	15 W	+19 39	1-0	7.44	K0	1 1/2 1 1/2 1 1/2	Light cloud.
2	25	1	32 W	-17 37	1-0	7.54	K5	1 1/2 1 1/2 1 1/2	
								7.5	

Compare lit work. All good plates.
 Exposures about 3/4 of total exposure.

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.
8976	H.D. 141456	15 41.1	+32 02	1-25	E-103-D	set. .008	+26.0°C	20 47	22 41
8977	162734	17 47.1	+15 22	"	"	"	+25.8°C	22 47	00 47
8978	174937	20 23.2	+08 07	"	"	"	+25.6	00 54	02 12
Faintest - outside three base - 7 ^s -5 ^s									
Monday July 19-20/43 No clouds starting to fill in at sunset - clouds, clouds, clouds thereafter.									

g Time
T.Hour Angle
End

Declination

Seeing

Ptg. Mag.

Comp.

REMARKS

2 22W +31 54

0

7.74 K5

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

Trough set 23.37± Trouble with Owl. Budsins and

8 25W +15 17

0

7.57 K0

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

setting - unable to get star

1 14W +08 14

0-1

7.26 K0

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

back on slit 22.58-23.11

Light clouds 01.53 - getting thicker 02.10

sky still thick 03.10

	m.e.	s.c.	S.W.	m.t.w.	STW.
July 20/43	+23.1	-10.5	-11.6	-11.3	000

Comparison not used.

Trans could have been slightly larger.

Date Tuesday July 20-21/43 - A Julian Day

[illegible]

g Time
I.T.

	Hour Angle End	Declination	Seeing	Ptg. Mag.	Corrb	Focus set 23.37	REMARKS
7 1	0 44 W	63 05	2-1	7.62	K ₅	1½-1½-1½	good. spots in g.
4 2	0 25 W	78 16	2-1	7.44	K ₀	1½-1½-1½	OK
4 3	0 35 W	62 40	1	7.01	K ₀	1½-1½-1½	Light clouds coming up from south. (spots light cap)
2 4	0 34 W	60 00	1-0	6.59	A ₂	1½-1½-1½	HD 184903 also in field. (spots light cap)
5	0 27 W	56 15	0-1	7.59	M ₂	1½-1½-1½	image very unsteady at first. (spots light cap)
5 2	0 30 W	58 46	2	7.52	K ₀	1½-1½-1½	Plates! Clouds all gone. (spots light cap)
8 1	0 10 W	36 45	3	6.34	F ₂	1½-1½-1½	Three plates + that in box #1. (spots light cap)
4 6	0 23 W	48 40	3	7.45	K ₂	1½-1½-1½	strong
							strong
							examined aperture; result to indicate
							circulation in 1st test.
							Clear 47 only to comparison.
							me. se. s.w. m.f.w. STW.
							July 22 +21.7 -10.8 -19.0 -10.1 00.0

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.
8987	HD 135530	15 10.5	+42 33	I-25	E-103a-o	set 008	22.9	20 38	21 58 4
8988	159354	17 29.2	+14 35	"	"	"	22.9	22 01	23 31 1
8989	176781	18 57.6	+08 14	"	"	"	23.0	23 33	01 11 2
8990	196610	20 33.4	+17 55	"	"	"	+22.8	01 15	02 35 3
8991	208110	21 48.9	+06 23	"	"	"	+22.7	02 39	03 49 4
8992	219485	23 11.0	+73 41	"	"	"	+22.8	03 55	04 11 1
Focus test - outside three base - 7 ^s -5 ^s									
Friday July 23-24/43									
Cloudy during early evening - clearing about midnight but filling in shortly - sky still very uncertain 2:15 AM.									

Focus set 23.42

g Time H.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
58 4	2 27 W	+42 22	0-1	7.72 Ma	1 1/2 1 1/2 1 1/2 Strong NW wind.
3 1	1 41 W	+14 51	0-1	8.01 MG	1 1/2 1 1/2 1 1/2 Fine
11 2	1 54 W	+08 16	0-1	7.69 K2	1 1/2 1 1/2 1 1/2 Fine
35 3	1 43 W	+18 04	0-1	7.62 Mc	1 1/2 1 1/2 1 1/2 Fine
49 4	1 41 W	+06 34	0	7.14 G0	1 1/2 1 1/2 1 1/2 seeing variable
1 1	0 41 W	+73 55	1-2	5.74 A0	1 1/2 1 1/2 1 1/2
					Very good light, with some thin clouds.
					Temperature OK
					July 24/43
					MTW 31.0
					STW 00.0
					W.B.E.N.

Date Saturday July 24-25/43 - A Julian Day

[illegible]

Focus set 23.37

ig Time
S.T.Hour Angle
End

Declination

Seeing

Ptg. Mag.

Comp

REMARKS

Cloudy in evening. Started clearing about midnight.

light clouds at times make image grow faint.

6. Towards last image very faint
sky clouded up from south. Closed up at
2.15 E.D.T.

This plate, and one of preceding batch,
had a band of apparently very thick
emulsion across one end, requiring 30-40
minutes to fix even with fresh fixer.
Very sharply defined, and off spectrum
enough to not affect use of plate.

Date Sunday, July 25-26, 1943 H-No Julian Day [illegible]

Clouds + light showers most of day. Clearing early evening.
 Focus left at 23:37

Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
1 38 W	+38 32	2-3	7.57 K2 1½ 1½ 1½	
1 11 W	+50 05	2-3	8.05 Ma 1½ 1½ 1½	
1 21 W	+44 05	2-3	7.64 K2 1½ 1½ 1½	seeing variable
1 34 W	+40 35	2-1	8.12 Ma 1½ 1½ 1½	seeing becoming very irregular.
1 37 W	+15 19	2-3	7.91 Ma 1½ 1½ 1½	
1 32 W	+07 54	2-3	8.01 1.1a 1½ 1½ 1½	Spotter failed to shut off after 3 min.
0 15 W	+25 38	2-3	7.85 K5 1½ 1½ 1½	exposure on plate in folder spots had an estimated ½ min exposure. On touching apparatus, it started to turn with having passed the button.

Date Monday July 26-27/43 S-H-No Julian Day

Plate No.	Object	R.A.		Declination		Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
		1900	1942	1900	1942							
9001	NGC. 5904	15	15.4	+02	19	Newtonian	E-103c-O			21 27	21 31	
9002	6402	17	34.4	-03	12	"	"			21 36	21 50	
9003	6402	17	34.4	-03	12	"	"			21 51	22 03	1 23
9004	{ KSA 133	17	15.7	-18	27	"	"			22 06	22 14	1 57
		17	15.4	-15	02	"	"			22 16	22 24	1 07
9005	6402	17	34.4	-03	12	"	"			22 27	22 39	1 54
9006	6402	17	34.4	-03	12	"	"			22 40	22 52	1 16
9007	6333	17	15.7	-18	27	"	"			22 58	23 08	1 51
9008	6402	17	34.4	-03	12	"	"			23 13	23 27	1 31
9009	6402	17	34.4	-03	12	"	"			23 28	23 40	2 05
9010	6366	17	24.4	-05	01	"	"			23 43	23 53	2 27
9011	6402	17	34.4	-03	12	"	"			23 56	00 10	2 35
9012	6402	17	34.4	-03	12	"	"			00 11	00 23	2 48
9013	6402	17	34.4	-03	12	"	"			00 24	00 38	3 03
9014	6779	19	14.2	+30	04	"	"			00 44	00 52	1 37
9015	7089	21	29.9	01	07	"	"			01 08	01 12	

g Time S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
31					Squidling
50		-03 14			Small Plate 25x3
11	0 25 W				" "
15	0 57 W				} Large Plate 34x4
21	1 07 W				
31	1 34 W				Small Plate
32	1 16 W				← From on 5 Apr 17 23.6 +04 11
01	1 51 W				
27	1 51 W				
40	2 05 W				
53	2 27 W				
10	2 35 W				
23	2 48 W				
33	3 03 W				
52	1 37 W				
112					Flamingo guiding ← From on 2 Aguilar 21 12.7 +05 00

Date Monday July 26-27/43 Cont'd

Julian Day.

[illegible]

ng Time S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
42	0 52W	1.			Squidling.
16	3 08W				
27	3 13W				
37	5 57W				
3.69	0 03W				through clouds

Date Tuesday July 27-28/43 S-H-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
9021	NGC 5904	15 15.4	+02 19	Reichert	E-103-D			21 05	21 07	2
9022	6402	17 34.4	-03 12	"	"			21 13	21 25	1
9023	6402	17 34.4	-03 12	"	"			21 26	21 35	2
9024	6333	17 15.7	-18 27	"	"			21 43	21 49	1
	KA133	17 15.4	-15 02	"	"			21 53	21 58	1
9025	6402	17 34.4	-03 12	"	"			22 02	22 14	2
9026	5466	14 03.1	+28 48	"	"			22 19	22 24	1
9027	6402	17 34.4	-03 12	"	"			22 36	22 48	1
9028	NGC 6333	17 15.7	-18 27	"	"			22 52	23 00	1
9029	6366	17 24.4	-05 01	"	"			23 05	23 14	1
9030	6402	17 34.4	-03 12	"	"			23 17	23 21	1
9031	5466	14 03.1	+28 48	"	"			23 35	23 45	2
9032	6333	17 15.7	-18 27	"	"			23 50	23 58	1
9033	6402	17 34.4	-03 12	"	"			0 01	0 15	1
9034	6366	17 24.4	-05 01	"	"			0 22	0 32	1
9035	6760	18 08.0	+00 52	"	"			0 36	0 58	2
	110	18 39.2	+00 00	"	"			1 00	1 24	1

Hour Angle End	Declination	Seeing	Ptg. Mag.	Remarks
07	0 06 E (calculated - not observed)			Re-orientation; Sighting small plates.
15	0 07 E			2 1/2' x 3 1/4'
51	0 06 W			seeing poor.
49	0 36 W			accurately timed 5 ^m 40 s
51	0 46 W			" " 5 ^m 40 s.
1	0 42 W			
29	4 28 W			← Focused on σ Aphiars
1	1 17 W			
30	1 47 W			hailed in dec for 205.
2	1 52 W			
32	1 57 W			seeing very poor
55	5 45 W			
35	2 45 W			
5	2 40 W			← Focus on σ Aphiars focus 0 &
32	3 10 W			
1	1 53 W			accurately timed 22 } large plate 3 1/4' x 4 1/2'
1	2 45 W			

Date. Tuesday July 27-28/43 Cont

Julian Day

[illegible]

Date Thursday July 29-30/43 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
9042	HD 159026	17 27.3	+38 58	T-25	F-1130 D	.000	23.8°C	21 13	21 53 2	0 34
9043	169646	18 20.6	+38 42	"	"	"	23.9	21 58	22 50 3	0 36
9044	184786	19 31.0	+49 02	"	"	"	23.8	22 57	23 49 4	0 28
9045	194526	20 21.0	+09 45	"	"	"	23.7	23 55	01 15 1	0 03
9045F	214298	22 32.1	+12 04	"	"	"	23.7	01 27	01 53 2	0 20
	Focus lost - altitude through haze					1/5 - 55 (over star - 4.5 min)				
	2nd from top - 1/5 min									

Cloudy in evening. Clouds cleared away after sunset.

ig Time S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp	REMARKS
						Focus set 23.40. stay clear of ST.
53.2	0 34W	38 55	0	6.79	F ₂ 1½-1½-1½	seeing very poor. Light in dark room in pic. will let go on South O.K.
50.3	0 38W	38 42	0-1	7.52	K ₂ 1½-1½-1½	
49.4	0 28W	49 08	1-2	7.54	M ₆ 1½-1½-1½	Bright aurora in north. ring 8-1
45.1	1 03W	9 50	1-2-0	7.64	K ₅ 1½-1½-1½	light clouds during part of exposure. seeing poor afterwards - defocusing south (W) stick 00.30
52.9	0 30E	12 16	1	7.71	K ₅ 1½	clouds faded shortly after exposure. rain or closed up shutters at 01.59. Continued cloudy so closed up at 02.20 E.S.T. Strong north wind. ring 10-1

Date _____

Friday, July 20-31/43 - No

Julian Day

[illegible]

Date Sat. July 31 - Aug 1

Y

Julian Day

[illegible]

Date.....Sunday Aug 1-2/43Na

Julian Day

[illegible]

Murky clouds moving in from W at sunset -
sky very lazy 10-11 P.M. - Gertrude improving
greatly 11:15

Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp.	REMARKS
1 52W	+18 39	1-0	7.45	K5	1 1/2-1 1/2-1 1/2
1 27W	+52 07	1-2	7.27	K0	1 1/2-1 1/2-1 1/2
1 25W	+49 19	1	7.12	K0	1 1/2-1 1/2-1 1/2
1 26W	+58 14	0	7.28	G5	1 1/2-1 1/2-1 1/2
not for 7 ^s exposure of test)					-
For test of no value.					
<u>Dist. in alt.</u> Aug 3/43 MC. +13.4 BC. +02.5 SHW. -00.6 MPW. +36.9 S.T.W. +0.7					

Date Thursday Aug 5-6/43 A

Julian Day

[illegible]

Did not find guiding surface till 9.30. Set on a bright star. A find of 3 had not, properly adjusted.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp.	REMARKS
0 35 W	38 53	3	6.79	F ₂	1 1/2 - 1 1/2 - 1 1/2 - I think this is the right star. OK
0 03 E	05 16	3-2	7.69	F ₀	1 1/2 - 1 1/2 - 1 1/2 - exposure at incorrect setting. no good
0 15 W	11 06	2-1	6.59	K ₂	1 1/2 - 1 1/2 - 1 1/2 - image very faint, and the brighter star in S. no good
0 29 W	02 43	2	7.35	K ₀	1 1/2 - 1 1/2 - 1 1/2 - fainter star in finder. no good
0 49 W	06 45	2-1	7.56	K ₃	1 1/2 - 1 1/2 - 1 1/2 - R.A. side, 8 min slow. good
0 20 W	12 16	2	7.71	K ₅	1 1/2 - 1 1/2 - 1 1/2 - Haze + light clouds. weak
0 20 W	20 31	2	7.64	M ₀	1 1/2 - 1 1/2 - 1 1/2 - weak
0 15 E	27 16	2	6.54	K ₀	1 1/2 - 1 1/2 - 1 1/2 - OK
0 03 E	29 45	2-1-0	7.40	K ₀	1 1/2 - 1 1/2 - 1 1/2 - Haze + light clouds. fine
					2nd plate - holders loaded fine
					x spot OK
					Plate unlabeled into black box incorrectly
					from fine.

Date Friday Aug 6-7/43 L Julian Day 174

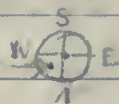
[illegible]

Date Saturday August 7-8/43 - 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.	H	Hour Angle End
9075	40159222	17 28.4	+34 21	T-25	E-1632-0	Set .008	21.7°C	20 14	20 40	1	05
9076	159026	17 27.3	+38 58	"	"	"	21.7°C	20 44	21 24	2	41W
9077	172631	18 36.2	+35 42	"	"	"	21.8°C	21 29	21 37	3	09W
9078	186121	19 37.5	+42 50	"	"	"	21.8°C	22 03	22 41	4	01L
9079	186776	19 41.4	+40 28	"	"	"	21.8°C	23 45	23 55	1	38W
9080	194244	20 11.5	+2 45	"	"	"	21.7°C	23 54	23 51	2	16W
9081	199442	20 52.1	+0 05	"	"	"	21.7°C	23 55	00 31	3	13W
9082	205688	21 31.7	+29 37	"	"	"	21.7°C	00 25	00 33	4	15W
9083	212047	22 04	+26 26	"	"	"	21.7°C	00 57	01 39	1	7W
9084	215630	22 37.2	+41 03	"	"	"	21.7°C	01 45	02 03	2	4W
9085	218560	23 03.9	+63 41	"	"	"	21.7°C	02 10	02 15	3	22W
9086	222682	23 37.7	+61 17	"	"	"	21.7°C	02 45	03 19	4	17W
9087	2404	00 27.3	+70 26	"	"	"	21.7°C	03 24	03 38	1	8W
9088	1881	00 41.5	+51 02	"	"	"	21.7°C	03 44	03 56	2	45E
9089	5542	01 11.2	+42 58	"	"	"	21.7°C	04 00	04 26	3	7W
9090	7000	01 11.2	+42 58	"	"	"	21.7°C	04 00	04 26	3	7W

Focus set 23.44±

Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp	REMARKS
0 05E	34 18	3	7.32	Gs	hazy in south - clouds around horizon. image very sharp and steady.
0 41W	38 55	3	7.65	Ma	" " " " " a few light clouds
0 07W	30 47	3	7.48	K ₀	" " " " " Heavy clouds in south west.
0 27E	42 56	3	7.74	Ma	" " " " "
0 28W	40 35	3	7.79	Ma	" " " " "
0 10W	0 51	3	6.11	A ₀	" " " " "
0 13W	0 14	3	7.33	K ₂	HD 199 400 also in field
0 05W	29 47	3	7.47	K ₀	" " " " "
0 07W	26 38	3	7.55	Ma	heavy ground fog, big stars in south and west
0 10W	41 15	3	7.07	K ₀	" " " " "
0 19W	13 55	3	7.41	K ₀	motor on automatic had control failing, turned off by hand 1/2 way, then started again. By hand.
0 25W	61 00	3	7.61	K ₂	" " " " "
0 05E	70 40	3	6.36	A ₀	" " " " "
0 05E	51 15	3	6.24	A ₀	Another star in field, south west. HD 199 400?
0 18W	53 10	3-2	7.49	K ₀	Large field out close to fog.
0 18W	53 10	3-2	7.49	K ₀	Light in field was mapped in with box open but not in.



	MC	SC	-W	MT	ST
Aug 9 12	+09.7	+10	-337	-213	-52
	MC	S.C	SW	<u>11.1</u>	<u>ST</u>
Aug 11	+08.0	+10.2	-198	-17.1(S)	00.0
	<u>n.T.W.</u>	<u>ST.W</u>			
Aug. 13	-16.6	00.0	WB IN.		

Date Saturday Aug 14-15/83 - A

Julian Day.

[illegible]

43

Date Sunday Aug. 15-16/43 No

Julian Day.

[illegible]

ing Time E.S.T. H	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp	REMARKS
						Focus left at 23.40±
25 2	1 11 W	+00 24	0	6.94	Fs- 1 1/2-1 1/2-1 1/2	
29 3		+08 17	1	7.69	K2 1 1/2-1 1/2-1 1/2 var?	passing thin clouds getting increasingly thicker 11.15 D.S.T. - star gone 11.20 - no signs of clearing 1.15 - closed up. Sky breaking 1.45 - clouding again 2.00 - still cloudy 2.45

	MC	SC	SW	MT _s	ST _m
Aug. 16	+05.2	+01.2	-46.4	-10.4	+0.1

Date Monday Aug 16-17/43 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
9088	H.D. 162468	17 46.1	+11 59	1-25"	E-103a-O	Sch. .008	+24.0°C	20 05	21 49	4
9089	177199	18 58.6	+19 31	"	"	"	23.7	21 53	23 41	1
9090	199941	20 55.2	+16 26	"	"	"	23.3	23 46	00 58	2
909D-F 9091	206040	21 34.3	+53 36	"	"	"	23.1	01 13	C2 00 3	
Focus test outside thru base 7 ^s -6 ^s										
Tuesday Aug 17-18/45 A										
Heavy clouds and light rain in morning										
Cleared up after 11 pm EST. Cloudy again at midnight. Clear at 1 am except NW!										
Clouded up at 3 am and remained cloudy. "in at 3:45."										

Rather strong N.W. wind at beginning of night

Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp.	REMARKS
					Focus left at 23.40 $\pm$
1 22W	+11 58	0	7.42 K2	1 1/2-1 1/2-1 1/2	
2 02W	+19 35	0	7.25 K0	1 1/2-1 1/2-1 1/2	scattered clouds 11.10 D.S.T. - 11.25. More
1 20W	+16 35	0	6.87 F2	1 1/2-1 1/2-1 1/2	clouds 11.55 - 01.00; 01.50 - 02.05
	+53 46	0-1	6.98 G5	1 1/2-	note change in temp. of spectrograph. Clouds 2.40 - star gone for good 2.40 (D.S.T.) Still cloudy 4.00 - closed up.

I think all the plates obtained
usually on 9000 $\rightarrow$ are unnecessarily strong
for most apparent work the exposures could
be cut to 1/2 of what they obtained.

RMS

Date Wednesday August 18-19/43/L Julian Day

[illegible]

ding Time
E.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp.	REMARKS
1 30 1	1 20 W 31 13	1	7.65	Ma $1\frac{1}{2}-1\frac{1}{2}-1\frac{1}{2}$	Focus set at 23.46 OK
2 35 2	1 22 W 39 14	2-1	7.73	Ks $1\frac{1}{2}-1\frac{1}{2}-1\frac{1}{2}$	triple weak
2 40 2	1 11 W 13 01	1-2	7.85	Ma $1\frac{1}{2}-1\frac{1}{2}-1\frac{1}{2}$	triple weak
1 4	1 09 W 45 30	1-2	7.82	Ma $1\frac{1}{2}-1\frac{1}{2}-1\frac{1}{2}$	heavy
1 1	0 14 W 61 20	2-1	7.61	Ks $1\frac{1}{2}-1\frac{1}{2}-1\frac{1}{2}$	triple heavy
1 0	0 57 W 28 22	1	7.95	Ma $1\frac{1}{2}-1\frac{1}{2}-1\frac{1}{2}$	triple heavy
				7.5	
					focus good

Date Thursday August 19-20/43 A

Julian Day

[illegible]

ding Time,
E.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp	REMARKS
					Focus set at 23.43±.
0 07W	50 49	2	7.35	K ₀ 1½-1½-1½	
0 06W	54 49	2-3	7.04	G ₅ 1½-1½-1½	Light clouds obscured image completely at times for a minute or so
0 12W	50 05	1-2	7.41	G ₅ 1½-1½-1½	aurora low in north motor on heat control failed to operate for at least 3 minutes. turned heat on and off by hand motor began to operate OK. Image ½ normal brightness from 21 55 to 22 07 - clouds Set on 4D1939 VV but did not begin exposure as heavy clouds rising in north sky filled in at 22.30 except for east end and a break in north. Closed up at 23.00 Partially clear at 1.0 AM E.O.T. but light clouds kept coming up making it useless to open up again
					all plates little better

Cloudy all day; breaking early evening.
Partly cloudy at dark.

52

Focus out 23.42

Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
1 43	1 50 W	+34 18	1-2	7.32 G-5 1½ 1½ 1½
2 27.2	1 15 W	+19 13	1-2	7.51 150 1½ 1½ 1½
				Aug 21
				MTW. STW.
				-05.8 +0.2 W.B.E.N.

Date Saturday Aug 21-22, 1943 A. Julian Day 19430821.5

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
9103	HD 186121	19 37.5	42 50	T-25	E-1030-0	^{set} .008	23.0	20 59	21 49	3
9104	193944	20 17.9	53 16	"	"	"	23.0	21 54	22 34	4
9105	196379	20 31.9	51 31	"	"	"	23.0	22 40	22 52	1
9106	198181	20 43.5	52 38	"	"	"	23.8	22 56	23 36	2
9107	205314	21 29.4	49 30	"	"	"	23.0	23 40	23 51	3
9108	205688	21 31.9	29 37	"	"	"	23.0	00 00	00 40	+
9109	215030	22 37.2	41 03	"	"	"	23.0	00 45	01 15	+
9110	221661	23 28.9	44 31	"	"	"	22.9	01 31	02 01	+
9111	225276	23 59.8	26 06	"	"	"	22.9	02 06	02 46	3
	4321	00 40.6	54 45	"	"	"	22.9	01 11	01 41	4

Thick haze with clouds all around horizon at sunset. Began clearing about 9 30 E.D.T. 54

Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp	Focus unchanged	REMARKS
0 10 E	42 56	2	7.74	M ₂	1 1/2 - 1 1/2 - 1 1/2	Still heavy haze around horizon at 10 45 E.D.T.
0 05 E	53 24	2	7.56	K ₅	1 1/2 - 1 1/2 - 1 1/2	
0 01 E	51 40	3	6.54	F ₂	1 1/2 - 1 1/2 - 1 1/2	
0 32 W	52 46	3-2	7.59 ^{7.43}	K₂ ^{K₀}	1 1/2 - 1 1/2 - 1 1/2	Fog rising all around
0 02 W	49 42	3-2	5.76	A ₀	1 1/2 - 1 1/2 - 1 1/2	
0 47 W	29 47	2	7.47	K ₀	1 1/2 - 1 1/2 - 1 1/2	Much fluctuation around image. Fog disappearing
0 17 W	41 15	3-2	7.07	K ₀	1 1/2 - 1 1/2 - 1 1/2	
0 11 W	44 45	2-3	7.06	G ₅	1 1/2 - 1 1/2 - 1 1/2	light clouds
0 14 W	26 20	3	7.59	K ₂	1 1/2 - 1 1/2 - 1 1/2	Very hazy
54 59	59	3	6.58	A₂	1 1/2 - 1 1/2 - 1 1/2	Plates holder taken out without closing slide. Then clouds at 02 51. Fog quite dense at 02 53. Sky filled with clouds at 03 00.
						Cleared up at 03 30 but very hazy and cloudy in north and east. Closed up at 03 50

Date Sunday Aug 22-23/43 - No Julian Day

[illegible]

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp.	REMARKS
						Focus set 23.39 ±
2.05	0 46W	+75 10	1-2	7.44	K0	1 1/2-1 1/2-1 1/2 Waited until star crossed meridian
2.12	0 44W	70 43	2-3	7.63	K2	1 1/2-1 1/2-1 1/2 before starting exposure.
2.22	0 26N	70 52	3	7.32	K2	1 1/2-1 1/2-1 1/2 OK
2.35	0 31W	70 12	2-3	7.24	G5	1 1/2-1 1/2-1 1/2 OK
3.01	0 22W	81 14	3	6.62	K0	1 1/2-1 1/2-1 1/2 Wide optical double - took brighter
3.27	0 43W	83 25	1-0	6.22	A2	1 1/2-1 1/2-1 1/2 ← found sidereal circle 1 min. fast - reset
3.53	1 09W	30 03	1-2	7.28	K0	1 1/2-1 1/2-1 1/2 and checked on β Cephei. Thick misty
4.18	0 33W	53 45	3	7.47	K0	1 1/2-1 1/2-1 1/2 clouds 23.40 - 00.00
4.53	0 41W	52 21	3	7.48	K2	1 1/2-1 1/2-1 1/2
5.23	1 00W	61 55	3	7.61	K5	1 1/2-1 1/2-1 1/2 hazy
6.07	2 13W	64 13	3-0	8.20	M4	1 1/2-1 1/2-1 1/2 clouds 03.50 - 04.15 - very hazy thereafter
6.46	2 12W	70 40	1-0	6.36	A0	1 1/2-1 1/2-1 1/2 ← to be gotten heavy - scattered clouds. (under very slightly + noise)
						NC SC SW. TT ST_m Aug. 23 +01.0 +04.0 -1.129 -02.8 +0.2
						Spotting not good - central plate not sharp
						in evening

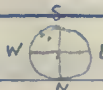
Date Tues. Aug 24-25

Y-L

Julian Day

[illegible]

ending Time
E.S.T.

	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp	REMARKS
						Focus 23.39.
56 1	58 W	1 18	0	7.33	K5 $\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	v p seeing 
0 11 2	80 W	30 46	0	7.48	K0 $\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	"
1 36 3	42 W	20 39	0-1	7.50	K0 $\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	"
0 21 4	0 29 W	16 53	0-1	6.52	F0 $\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	
0 11 4	0 30 W	00 57	0	7.38	K0 $\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	
1 34 W	63 55	1-2	7.41	K0 $\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$		
1 03 W	31 29	1	7.86	K0 $\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$		
					7.5	
						1 star seemed a long way off Huge, time lost in checking circles. RESET m. l. w. STW. +0.8 +0.1 W.B.N. Aug. 29 thing falling in toward end of exp. not too strong H.C. could have been with 1/2 exp.

Date.....Wednesday August 25-26, 1943 H-L Julian Day.....

[illegible]

Clouds most of day + early evening. Started to open once about dark, but clouds. Clearing later.

60

Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
0 54 W	+02 22	0-1	7.28 K0	Light scattered clouds at first. Again later. <i>good</i>
1 20 W	+40 35	1	7.79 Ma	$1\frac{1}{2} 1\frac{1}{2} 1\frac{1}{2}$ <i>(trifle weak)</i> OK Tried to dust or hair off slit jaws - but found it in eyepiece!
1 04 W	+25 20	1	7.30 K0	$1\frac{1}{2} 1\frac{1}{2} 1\frac{1}{2}$ Outside of dome becoming wet. <i>OK</i>
1 02 W	61 15	1	7.40 K5	$1\frac{1}{2} - 1\frac{1}{2} - 1\frac{1}{2}$ Some light clouds. <i>OK</i>
1 07 W	56 48	1	7.57 K2	$1\frac{1}{2} - 1\frac{1}{2} - 1\frac{1}{2}$ Strong W wind rising near end. <i>OK</i>
1 12 W	04 34	1-0	7.28 F2	$1\frac{1}{2} - 1\frac{1}{2} - 1\frac{1}{2}$ 7-5 Light clouds, sky clouding over toward end of exp. <i>OK</i>
				<i>12-15 OK - not a trifle + red</i>

61.

Date Thurs. Aug 26-27

Y-L

Julian Day

[illegible]

62

Focus 23 44

[illegible]

Date 7th Aug 27-28/43 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
9141	HD 157967	17 21.4	17 00	I-25	E103a-O	008	17.9	7 40	8 20	3 60 ^m W
9142	HD 162468	17 46.1	11 59	"	"	"	17.9	8 28	9 08	4 23 ^m W
9143	HD 183589	19 25.2	2 41	"	"	"	18.0	9 13	9 49	1 26 W
9144	HD 186532	19 39.9	55 13	"	"	"	17.9	9 56	10 36	2 59 W
9145	HD 191096	20 03.1	56 03	"	"	"	17.9	10 39	10 53	3 52 W
9146	HD 197939	20 41.8	56 08	"	"	"	17.9	10 56	11 26	4 -7 W
9147	HD 204599	21 24.6	59 19	"	"	"	17.9	11 30	12 00	1 38 W
9148	HD 209112	21 55.9	62 13	"	"	"	17.8	12 04	12 32	2 11 W
9149	" 215159	22 38.2	53 23	"	"	"	17.8	12 38	01 00	3 11 W
9150	" 220074	23 15.8	61 26	"	"	"	17.8	01 04	01 38	4 12 W
9151	" 225136	23 58.7	66 00	"	"	"	17.8	01 43	02 26	1 21 W
9152	" 6211	00 58.1	51 58	"	"	"	17.8	02 33	02 55	2 11 F
9153	" 10110	01 33.8	53 22	"	"	"	17.8	02 59	03 31	7 11 W
9154	" 13818	02 00.5	47 21	"	"	"	17.8	03 35	03 50	4 11 F
9155	" 18153	02 49.8	50 51	"	"	"	17.8	04 03	04 35	1 31 F
9156	" 18832	02 56.7	04 57	"	"	"	17.8	04 39	05 03	2 11 W

Focus 23.50

Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp.	REMARKS
60 ^m W	16 56	2-3	764	Mb	$\frac{1}{2} \cdot \frac{1}{2} \cdot \frac{1}{2}$ some clouds. <i>little weak</i>
1 23 ^m W	11 55	2-3	742	K2	$\frac{1}{2} \cdot \frac{1}{2} \cdot \frac{1}{2}$ <i>OK</i>
26 W	2 46	3	756	K5	$\frac{1}{2} \cdot \frac{1}{2} \cdot \frac{1}{2}$ <i>little weak</i>
59 W	55 18	3	787	Ma	$\frac{1}{2} \cdot \frac{1}{2} \cdot \frac{1}{2}$ <i>OK</i>
52 W	56 10	3	646	FO	2-2 <i>little weak</i>
47 W	56 16	3	759	Ma	$\frac{1}{2} \cdot \frac{1}{2} \cdot \frac{1}{2}$ <i>OK</i>
38 W	59 29	3	779	Ma	$\frac{1}{2} \cdot \frac{1}{2} \cdot \frac{1}{2}$ <i>OK</i>
0 ²⁹ W	62 25	3	751	Mb	$\frac{1}{2} \cdot \frac{1}{2} \cdot \frac{1}{2}$ <i>OK</i>
0 ²⁵ W	53 35	3	733	K2	$\frac{1}{2} \cdot \frac{1}{2} \cdot \frac{1}{2}$ <i>little weak</i>
0 ²⁴ W	61 39	3	780	K5	$\frac{1}{2} \cdot \frac{1}{2} \cdot \frac{1}{2}$ <i>OK</i>
0 ²⁹ W	66 22	3	797	Ma	$\frac{1}{2} \cdot \frac{1}{2} \cdot \frac{1}{2}$ <i>OK</i>
0 ⁰¹ E	52 12	3	734	K0	$\frac{1}{2} \cdot \frac{1}{2} \cdot \frac{1}{2}$ <i>OK</i>
0 ⁰⁰	53 35	3	771	K2	$\frac{1}{2} \cdot \frac{1}{2} \cdot \frac{1}{2}$ <i>little weak</i>
0 ⁰⁸ E	47 32	3	744	K0	$\frac{1}{2} \cdot \frac{1}{2} \cdot \frac{1}{2}$ <i>OK</i>
0 ¹³ E	51 00	3	770	K5	$\frac{1}{2} \cdot \frac{1}{2} \cdot \frac{1}{2}$ <i>OK</i>
0 ⁰⁹ W	65 06	3	738	K0	$\frac{1}{2} \cdot \frac{1}{2} \cdot \frac{1}{2}$ <i>OK</i>

Date Sat Aug 28-20/43 A-No.

Julian Day

[illegible]

Cloudy at sunset. Cleared up about 9:30 EDT. except for
cloud bank going down in west.

7-2000 21-1-2000 23 47

Date Sunday Aug. 29-30

Y- No

Julian Day

[illegible]

Sky filling in 00:00 - still solid 01:30 -
closed up. No signs of clearing 02:00

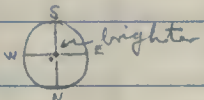
	MC	SC	SW	MT	ST
Aug. 30	-11.2	+08.5	+19.8	+10.0	+0.3

Date Mon Aug. 30 - 31
$$Y - N - N_0$$

Julian Day.

[illegible]

Focus 23.40

Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp.	REMARKS
1 08 W	01 56	2-1	7.46 Ko	$1\frac{1}{2}-1\frac{1}{2}-1\frac{1}{2}$	l. W. white
0 22 W	37 14	2	7.14 G5	$1\frac{1}{2}-1\frac{1}{2}-1\frac{1}{2}$	"
0 48 W	36 16	2	7.33 Ko	$1\frac{1}{2}-1\frac{1}{2}-1\frac{1}{2}$	Some cloud. Aurora.
1 09 W	17 18	2-1	7.27 Ko	$1\frac{1}{2}-1\frac{1}{2}-1\frac{1}{2}$	Aurora south of zenith; Clouds 22 53 ^{machal line} _{silky over from} ^{west. Ck}
1 12 W	54 37	1	7.16 Ko	$1\frac{1}{2}-1\frac{1}{2}-1\frac{1}{2}$	Aurora down to dec -20° - Clouds 00.25-00.45
0 46 W	37 06	2-3	7.00 Ko	$1\frac{1}{2}-1\frac{1}{2}-1\frac{1}{2}$	seeing v. variable
0 44 W	37 43	2-3	7.52 Ks	$1\frac{1}{2}-1\frac{1}{2}-1\frac{1}{2}$	
1 21 W	22 19	2-1	7.65 Ma	$1\frac{1}{2}-1\frac{1}{2}-1\frac{1}{2}$	"
0 54 W	44 37	2	7.66 Ks	$1\frac{1}{2}-1\frac{1}{2}-1\frac{1}{2}$	
1 27 E	06 02	2	7.10 G5	$1\frac{1}{2}-1\frac{1}{2}-1\frac{1}{2}$	
1 11 E	06 03	2-3	7.72 G5	$1\frac{1}{2}-1\frac{1}{2}-1\frac{1}{2}$	clouds 0440 - more clouds 05:00

22

[illegible]

E.S.T.

2.

55

32

5

Date Thurs. Sept 2-3 Y-L

Julian Day.

[illegible]

Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp.	REMARKS
58W	40 04	2-1	708	G0	$1\frac{1}{2}-1\frac{1}{2}-1\frac{1}{2}$
1 08W	49 42	1	751	K0	$1\frac{1}{2}-1\frac{1}{2}$ clouded 9 ⁰⁰
02 00	1	720	G3	$1\frac{1}{2}$	clouds
			733	K2	n 9

Date Fri. 1943 Sep. 3-4 N-No Julian Day [illegible]

Focus set 23.42 ±

ending Time
E.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
1 48W	+15 18	0-1	7.54 K ₀	1 1/2 - 1 1/2 - 1 1/2 Son clouds Some refused to turn once. at
1 28W	+32 42	0-1	7.25 K ₂	1 1/2 - 1 1/2 - fainter star <u>very</u> hazy - can barely see ε, 5 Lyrae, 22 20. d m
1 18W	+06 33	0-1	7.14 G ₀	1 1/2 - 1 1/2 - 1 1/2 " Star gone 22 41 - Closed shutters. 23 05 V mark
				sky filling in 0000 - star gone most of time thereafter. Closed up 0100 - dome extremely wet - mirror O.K.
				Unable to put heat on mirror as paint inside of tube still quite tacky.
				From post

Date Sunday Sept 5-6

Y- No

Julian Day

[illegible]

		MC	SC	SW	MT ₃	ST _m
Sep. 7	12	-06.6	+11.3	-1.13.7	-19.6	+0.1
					reset	

Date Tuesday 1943 Sep 7-8 N-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
9201	HD 167304	18 09.5	+41 08	1-25	E-103a-0	0.008	+21.3	19 17	20 17	1
9202	176707	18 56.5	+50 41	-	-	-	+21.4	20 25	21 09	2
9203	189127	19 53.4	+57 59	-	-	-	+21.3	21 16	22 10	3
9204	199611	20 53.3	+50 21	-	-	-	+21.3	22 15	22 35	4
9205	205314	21 29.4	+49 30	-	-	-	+21.3	22 41	22 55	1
9206	206731	21 39.0	+49 08	-	-	-	+21.3	23 01	23 39	2
9207	213242	22 25.0	+63 34	-	-	-	+21.3	23 45	00 33	3
9208	222682	23 37.7	+61 07	"	"	"	+21.2	00 38	01 39	4
9209	2952	00 27.7	+54 21	"	"	"	+21.2	01 44	02 22	1
9210	4321	00 40.6	+54 45	"	"	"	+21.2	02 27	02 55	2
9211	7758	01 12.2	+46 53	"	"	"	+21.2	02 58	03 46	3
9212	20162	03 09.3	+44 58	"	"	"	+21.2	03 52	05 00	2

From East *Outside through face*

Focus set 24.43 ±

Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
0 53 W	+41 07	0-1	7.36	Ko	$1\frac{1}{2}-1\frac{1}{2}-1\frac{1}{2}$ Seeing variable
0 58 W	+50 42	0-1	7.15	G5	$1\frac{1}{2}-1\frac{1}{2}-1\frac{1}{2}$
1 03 W	+57 04	1-0	7.19	Ko	$1\frac{1}{2}-1\frac{1}{2}-1\frac{1}{2}$
0 28 W	+50 28	1	6.08	Fa	$1\frac{1}{2}-1\frac{1}{2}-1\frac{1}{2}$
0 11 W	+49 42	1	5.76	Ao	$1\frac{1}{2}-1\frac{1}{2}-1\frac{1}{2}$ Get strong
0 46 W	+49 18	1-2	7.12	Ko	$1\frac{1}{2}-1\frac{1}{2}-1\frac{1}{2}$
0 54 W	+63 46	1-2	7.38	Ko	$1\frac{1}{2}-1\frac{1}{2}-1\frac{1}{2}$
0 45 W	61 21	1-2	7.01	K2	$1\frac{1}{2}-1\frac{1}{2}-1\frac{1}{2}$
0 40 W	54 33	1-2	7.14	Ko	$1\frac{1}{2}-1\frac{1}{2}-1\frac{1}{2}$
0 57 W	54 57	2	6.58	A2	$1\frac{1}{2}-1\frac{1}{2}-1\frac{1}{2}$
1 10 W	47 07	2	7.41	Ko	$1\frac{1}{2}-1\frac{1}{2}-1\frac{1}{2}$
0 30 W	45 07	2	7.77	Ma	$1\frac{1}{2}-1\frac{1}{2}-1\frac{1}{2}$
					7-5
					Focus set 24.43 instead of
					23.43
					Plates Kept.

Date Wed. Sept 8-9

Y-L

Julian Day

[illegible]

Focus 23.47±

Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp.	REMARKS
1 30 W	58 05	2-1	7.19	K0	1/2 1/2 1/2	cloudy in early evening
53 W	64 08	1	6.97	G0	1/2 1/2 1/2	slightly heavy
1 35 W	53 46	1-2	6.98	G5	1/2 1/2 1/2	clouds-
0 54 W	58 15	2	7.28	G5	1/2 1/2 1/2	slightly heavy
0 39 E	51 15	2	6.24	A0	1/2 1/2 1/2	OK
0 25 E	50 43	2	6.70	A3	1/2 1/2 1/2	OK
0 21 W	40 47	2-1	7.39	K0	1/2 1/2 1/2	OK
0 43 W	49 54	2 1	7.60	K0	1/2 1/2 1/2	Clouds before dawn focus OK

Cloudy during early evening, clearing somewhat 8:15 (0.35), opened up but delayed starting exposure as dense cloud banks

Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp	REMARKS
1 15W	+33 25	1	7.30	K0	1/2-1/2-1/2	Focus set 23.53± moving in from N.W. - Clear 9:30.
						clouds 21:00-21:15 ; 21:25-21:35
						more clouds 21:40 -
						Clearing around midnight, but clouding late on

Rising Time Z.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp.	REMARKS
							Focus set 23.57 ±
0 07 1	0 33 W	+07 16	1-0	7.36	K ₀	1½-1½-1½	good
1 28 1	1 32 W	+24 56	1-2	7.99	K ₂	1½-1½-1½	weak
2 51 3	0 53 W	+41 34	1-2	7.43	K ₀	1½-1½-1½	fine
3 18 4	1 07 W	+42 00	1-2	7.60	K ₂	1½-1½-1½	good strong
5 1 1	0 52 W	+63 46	0-1-2	7.38	K ₀	1½-1½-1½	good strong
1 2 2	0 49 W	+22 43	1-2	7.45	K ₀	1½-1½-1½	ok
2 40 3	0 32 W	28 14	1-2	7.98	M _a	1½-1½-1½	fine
4 5 1	1 16 W	12 57	1-2	8.01	M _b	1½-1½-1½	weak
5 06 1	0 18 W	24 18	1-2	7.38	K ₀	1½-1½-1½	fine
						7-5	
							Focus good

Focus 23.53 ±

ding Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS			
55	0 54 W	+ 41 07	1	7.36	Ko	1½-1½-1½	Some thin clouds	Civil minute hand of Stronger of Olsen not moving uniformly. (near half hour)	good
2 4	0 56 W	+ 50 44	1-0	7.15	G5	1½-1½-1½	Seeing variable		fine
1 21	0 47 W	+ 25 00	1-2	6.88	Fo	1½-1½-1½	have another star N Prec. in finder (H.D. 186936) Clouds 21 08-13		ok
2 04	0 52 W	+ 19 39	2	7.44	Ko	1½-1½-1½			fine
2 33	1 02 W	+ 02 43	2	7.53	Ko	1½-1½-1½	Trouble with dec. slow motion while setting		fine
6 15	26 W	+ 20 58	2	7.80	Ko	1½-1½-1½	Large		ok
2 20	0 47 W	25 39	2	7.85	K5	1½-1½-1½	"		ok
2 7	44 W	31 27	2	7.86	Ko	1½-1½-1½	"		all stars
1 10	55 W	13 11	2-3	7.63	M5	1½-1½-1½	"		ok
4 1	1 W	15 38	3	7.57	Ko	1½-1½-1½	"	clouds	good

7-5

7-10 ok

93

Date Thursday Sept 16-17.

$$Y - N_0$$

Julian Day

[illegible]

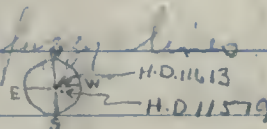
Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp.	REMARKS
1 ¹² 22 W	+2° 19'	0	766	Mb. 1 1/2 - 1 1/2 - 1 1/2	clouds at 803 (lightning) little visible
			750	KO	
1 ¹³ 43 W	52 47	0-1	743	KO 1 1/2 - 1 1/2	clouds 1030 OK

Date Friday 1943 Sep. 17-18 N-No Julian Day

[illegible]

Focus 23.57±

ing Time EST.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
10	129W	+30 26	0-1	7.71	K ₂	1½-1½-1½ seeing variable OK
46	0 39 W	+48 02	1	6.84	A ₅	1½-1½-1½ good
3	0 49 W	+48 12	1-2	7.32	K ₂	1½-1½-1½ OK
30	0 55 W	+50 06	1	7.45	K ₀	1½-1½-1½ (strong) fine
1	1 19 W	+36 18	2-1	7.78	K ₅	1½-1½-1½ fine
21	0 44 W	+52 30	1-2	7.26	K ₀	1½-1½-1½ (strong) fine
21	0 33 W	+49 40	2	7.36	K ₀	1½-1½-1½ too strong fine
4	0 12 W	+56 38	2-3	7.58	K ₀	1½-1½-1½ (strong) fine
4	0 47 W	+71 25	2	7.38	K ₀	1½-1½-1½ fine
20	1 00 W	+75 56	3	6.53	A ₃	1½-1½-1½ fuzzy lines good
3	1 26 W	+40 24	2	7.57	K ₂	1½-1½-1½ fine
529	1 33 W	+71 40	2-3	8.18	Ma	1½-1½-1½ fine
focus a little long						



Date Saturday Sept. 18-19, 1943 H-L Julian Day.[illegible]

Trans set 23.55

ing Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
1	54 W	+50 49	1	7.35	K0 $1\frac{1}{2}-1\frac{1}{2}-1\frac{1}{2}$ Light-clouder; star gone 19 ⁴⁵ 19 ³⁸ at
1	54 W	+37 41	1-2	7.66	Ma $1\frac{1}{2}-1\frac{1}{2}-1\frac{1}{2}$ Few light clouds.
1	54 W	+42 48	2	7.32	K0 $1\frac{1}{2}-1\frac{1}{2}-1\frac{1}{2}$ Transiting good. SE wind, dome moist.
0	59 W	+45 36	2-1	7.63	K2 $1\frac{1}{2}-1\frac{1}{2}-1\frac{1}{2}$ good
0	28 W	+35 26	2	6.58	A0 $1\frac{1}{2}-1\frac{1}{2}-1\frac{1}{2}$ at
1	13 W	+35 20	2-3	7.68	K5 $1\frac{1}{2}-1\frac{1}{2}-1\frac{1}{2}$ at
0	33 W	26 21	2-3	7.59	K2 $1\frac{1}{2}-1\frac{1}{2}-1\frac{1}{2}$ at
0	48 W	04 37	2-3	7.98	F2 $1\frac{1}{2}-1\frac{1}{2}-1\frac{1}{2}$ at
0	00	01 43	3	7.49	K0 $1\frac{1}{2}-1\frac{1}{2}-1\frac{1}{2}$ at
0	04 E	10 38	3	7.38	K5 $1\frac{1}{2}-1\frac{1}{2}-1\frac{1}{2}$ at
0	10 W	08 15	3	7.22	G5 $1\frac{1}{2}-1\frac{1}{2}-1\frac{1}{2}$ at
0	12 W	06 12	3	7.08	G0 $1\frac{1}{2}-1\frac{1}{2}-1\frac{1}{2}$ little wind
0	26 W	06 37	3	7.12	K0 $1\frac{1}{2}-1\frac{1}{2}-1\frac{1}{2}$ at
				7.37	K0

While on this exposure I saw a large
 splash in floor, shudder clipping!
 Examined mirror found fresh splash!
 Even at the low Dec. Trans at

Date Sept 19-20 Sun. Y- No

Julian Day

[illegible]

Cleaned off - Mirror.

100

Distilled Water. KLEENEX
Chamois

iding Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp.	REMARKS	Focus 23.50
8 5	1 52 W	75 11	1-0	744	K0	1/2 1/2 - 1/2	Thick haze	little
9 43	1 08 W	65 52	1	625	A2	1/2 - 1/2 - 1/2		OK
9 12	1 45 W	52 19	1-2	693	K0	1/2 - 1/2 - 1/2		good
10 22	1 37 W	53 25	1-2	756	K5	1/2 - 1/2 - 1/2	Haze - Thick.	little
				642	A0			
								RESET
								mc. sc. S.W. m.T. S.T.
Sept. 20								-10.0 +19.2 +03.9 -05.9 +0.3

Date Monday 1943 Apr. 20-21 N-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.	Bow Angle End
9290	HD 172958	18 37.9	+ 31 31	1-25	E-103a-O	.008	+15.4	19 00	19 26	3 0.24W
9291	175679	18 51.4	+02 21	-	-	-	+15.3	19 33	20 15	4 0.59W
9292	189695	19 56.2	+08 17	-	-	-	+15.2	20 20	20 56	1 0.36W
9293	194937	20 23.2	+08 07	-	-	-	+15.0	21 30	22 06	3 2.02W
9294	205688	21 31.9	+29 37	-	-	-	+15.2	22 09	22 57	4 1.02W
9295	213644	22 27.9	+15 20	-	-	-	+15.2	23 04	23 48	1 0.57W
9296	221293	23 25.8	+38 06	-	-	-	+15.2	23 53	00 35	2 45W
9297	1075	00 09.9	30 59	"	"	"	+15.1	00 40	01 54	3 0.7W
9298	5273	00 49.4	48 09	"	"	"	+15.1	01 59	03 29	4 0.7W
9299	9066	02 58.9	40 12	"	"	"	+15.0	03 34	04 22	1 0.7W
9300	26605	04 07.4	37 43	"	"	"	+15.0	04 26	05 06	2 0.7W
	Focus Test				Outside through base					

Cloudy all day - clearing at sunset.

Focus 23.53

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
19 26	0 24 W	+31 33	1-0	6.47	A0	$1\frac{1}{2} \cdot 1\frac{1}{2} \cdot 1\frac{1}{2}$ Get strong OK
20 15	0 59 W	+02 22	1-2	7.28	K0	$1\frac{1}{2} \cdot 1\frac{1}{2} \cdot 1\frac{1}{2}$ (E) brighter star good
20 36	0 36 W	+08 24	1-2	7.15	K2	$1\frac{1}{2} \cdot 1\frac{1}{2} \cdot 1\frac{1}{2}$ N SL weak
20 46	1 20 W	+08 12	1-2	7.26	K0	$1\frac{1}{2} \cdot 1\frac{1}{2} \cdot 1\frac{1}{2}$ Blur dec. fine after starting exposure - Dr. Hogg replaced and re-adjusted temp. control - poor contact had been made. OK
22 57	1 02 W	+29 47	1-2	7.47	K0	$1\frac{1}{2} \cdot 1\frac{1}{2} \cdot 1\frac{1}{2}$ Seeing variable good
23 14	0 57 W	+15 33	1-2	7.36	K0	$1\frac{1}{2} \cdot 1\frac{1}{2} \cdot 1\frac{1}{2}$ good
00 27	0 45 W	+38 20	1-2	7.21	K0	$1\frac{1}{2} \cdot 1\frac{1}{2} \cdot 1\frac{1}{2}$ light haze strong ok
01 05	1 21 W	31 12	1-2	7.79	K5	$1\frac{1}{2} \cdot 1\frac{1}{2} \cdot 1\frac{1}{2}$ ok
01 28	2 17 W	48 22	1	7.95	Ma	$1\frac{1}{2} \cdot 1\frac{1}{2} \cdot 1\frac{1}{2}$ ok
01 44	1 00 W	40 21	1-2	7.18	K0	$1\frac{1}{2} \cdot 1\frac{1}{2} \cdot 1\frac{1}{2}$ SL strong
01 55	0 46 W	37 48	1-2	7.33	G5	$1\frac{1}{2} \cdot 1\frac{1}{2} \cdot 1\frac{1}{2}$ ok
						7.5
						Focus good

Cloudy with showers during day; clearing late afternoon.
 Heat on mirror from 100-7⁰⁰ DST.
 Trans set 23.52

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iding Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
19	0 47 W	+29 36	2-3	7.14 K0	1 1/2 1 1/2 1 1/2 Seeing variable. good
22	1 43 W	+10 53	3	(8.27) 7.70 K2	1 1/2 1 1/2 1 1/2 Best double. OK
23	0 46 W	+9 52	2-3	7.64 K5	1 1/2 1 1/2 1 1/2 Surprising. Heat shut off. (Dome temp up to 62°F) slightly weak
24	2 28 W	+17 52	3-2-1	8-9 7.70 M6	1 1/2 1 1/2 1 1/2 6.4-7.5 vis mag. Heat on. Strong NW wind. excellent
25	0 55 W	+18 49	2-1	7.50 K0	1 1/2 1 1/2 1 1/2 good
26	16 W	20 30	2-1	7.64 Ma	1 1/2-1 1/2-1 1/2 good
27	1 07 W	23 40	2-1	7.44 K0	1 1/2-1 1/2-1 1/2 slightly weak
28	1 19 W	20 08	2-1	7.48 K5	1 1/2-1 1/2-1 1/2 good
29	0 33 W	35 45	2-3	7.16 G5	1 1/2-1 1/2-1 1/2 not correct
30	2 08 W	59 44	2-1	7.46 K0	1 1/2-1 1/2-1 1/2 Clouds toward end of exposure. slightly weak
				7.5	Sky clouding over.
					Lower good
					Sept 23/43 M.T.W. S.T.W. W.B.F.N.

Date Thurs. Sept 23-24

Y-No

Julian Day.

[illegible]

Hour Angle
End

III

#6 W

 $+2W$

56 W

54 W

W

Clouds and some rain during day. Clearing at sunset.

Focus 23.59 $\pm$

Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
0 36W	+36 31	2	7.25 Ko $1\frac{1}{2} 1\frac{1}{2} 1\frac{1}{2}$	hazy seeing variable strong
1 51W	+33 06	1-2-0	7.50 Ko $1\frac{1}{2} 1\frac{1}{2} 1\frac{1}{2}$	thick haze - thinning 20 10 fine
1 14W	+16 35	1	6.87 F2 $1\frac{1}{2} 1\frac{1}{2} 1\frac{1}{2}$	hazy ok
0 52W	+31 33	2-1	7.33 K2 $1\frac{1}{2} 1\frac{1}{2} 1\frac{1}{2}$	hazy very weak
1 00W	+26 16	2	6.98 F2 $1\frac{1}{2}-1\frac{1}{2}-1\frac{1}{2}$	hazy fine
1 51W	+34 37	2	6.55 A0 $1\frac{1}{2}-1\frac{1}{2}-1\frac{1}{2}$	get strong! good
1 07W	+32 48	1	7.31 Ko $1\frac{1}{2}-1\frac{1}{2}-1\frac{1}{2}$	fine
1 41W	+36 50	1	7.39 Ko $1\frac{1}{2}-1\frac{1}{2}-1\frac{1}{2}$	hazy ok
0 41W	+10 08	1-2	7.33 F5 $1\frac{1}{2}-1\frac{1}{2}-1\frac{1}{2}$	sky getting increasingly thicker weak
				Focus good

Focus set 23.58

Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
1 8 W	+38 42	0-1	7.52 K2 $1\frac{1}{2}-1\frac{1}{2}-1\frac{1}{2}$	N wind fairly strong. ok
1 05 W	+14 15	1	7.47 K0 $1\frac{1}{2}-1\frac{1}{2}-1\frac{1}{2}$	ok
1 20 W	+08 15	1	7.26 K0 $1\frac{1}{2}-1\frac{1}{2}-1\frac{1}{2}$	OK
1 12 W	+21 56	1-0	7.53 M6 $1\frac{1}{2}-1\frac{1}{2}-1\frac{1}{2}$	Seeing very variable. Strong
1 44 N	+37 18	0-1	6.92 G5 $1\frac{1}{2}-1\frac{1}{2}-1\frac{1}{2}$	V. " "
1 02 W	+23 47	1-2	7.49 K0 $1\frac{1}{2}-1\frac{1}{2}-1\frac{1}{2}$	Strong
1 52 W	+48 50	1	7.45 K2 $1\frac{1}{2}-1\frac{1}{2}-1\frac{1}{2}$	OK
0 42 W	+33 55	1	7.12 G5 $1\frac{1}{2}-1\frac{1}{2}-1\frac{1}{2}$	V Strong
1 28 W	+07 40	2	7.44 K0 $1\frac{1}{2}-1\frac{1}{2}-1\frac{1}{2}$	Double, took brighter. OK
0 39 W	+38 24	1-2	7.08 K0 $1\frac{1}{2}-1\frac{1}{2}-1\frac{1}{2}$	OK
0 41 E	+09 16	1-2	7.20 K0 $1\frac{1}{2}-1\frac{1}{2}-1\frac{1}{2}$	OK
0 38 W	+03 30	2	7.20 K0 $1\frac{1}{2}-1\frac{1}{2}-1\frac{1}{2}$	clouds 04.45 Time lost in setting up R.H. station (Retn) better would have been more clouds 05.10 - star gone 05.20 Focus good

Something wrong with hand switch. works sometimes
and then fails

114

Healers will not come on in clock.

ending Time
E.S.T.

	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp.	REMARKS
						Focus 2360
23 1	15 E	22 18	3	7.51	K2 $1\frac{1}{2} 1\frac{1}{2} 1\frac{1}{2}$	} Temp rising in dome. (reset, temp) clouds. 8 ³⁵ - 8 ⁵² clearing later
08 2	43 W	2 44	2-3	7.56	K5 $1\frac{1}{2} 1\frac{1}{2} 1\frac{1}{2}$	
32 5	1 28 W	16 30	3-0	8.02	Ma $1\frac{1}{2} 1\frac{1}{2} 1\frac{1}{2}$	
47 -	30 W	26 38	2-0	7.85	Ma $1\frac{1}{2} 1\frac{1}{2} 1\frac{1}{2}$	
00 -	0 57 W	44 37	2-1	7.66	K5 $1\frac{1}{2} - 1\frac{1}{2} - 1\frac{1}{2}$	Clouds at end of exposure. sky filling in, then breaking in spots, waited, then later closed up.

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From 23.46

NE wind.

Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
1 24 W	+20 46	0-1	7.37 G5	Light haze. <i>slightly weak</i>
1 37 W	+49 18	0-1	7.54 M6	Trouble with RA setting (scale) <i>slightly weak</i>
1 12 W	+51 38	0	6.54 F0	slight around horizon, cloud(?) overhead. <i>slightly weak</i>
0 38 W	+49 43	1	5.76 F0	get strong <i>OK</i>
1 03 W	+43 20	1-2	7.41 M2	Light haze; increasing. <i>slightly weak</i>
1 17 W	+52 20	1-2	7.48 K2	Haze <i>slightly weak</i>
0 13 W	65 50	2	6.70 G5	" <i>OK</i>
0 42 W	68 58	2	6.76 F2	" <i>OK</i>
1 35 W	53 11	2-1	7.49 M0	" <i>OK</i>
0 50 W	55 17	2-3	6.62 A2	" <i>OK</i>
0 16 W	53 50	2	7.42 K0	" <i>OK</i>
0 13 W	51 53	2	8.07 M2	" <i>slightly weak</i>
7-5				center slightly to red - <i>OK</i>
				MC SC MTW STW
WBEN 3.30 PM EST				-10.6 +23.9 -07.4 +0.5?
				from Tel. +0.2?

Date 11/15/1943 1943 22-30 N-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
9359	HD 170973	18 27.1	+3 35							
	HD 170137	18 22.8	+03 41	1-25	E-10350	.008	+17.2	18 40	19 30	1 14 W
9360	186815	19 41.6	+56 47	-	-	-	+17.2	19 44	20 20	2 51 W
9361	194.298	20 19.8	+63 41	-	-	-	+17.2	20 26	20 58	3 51 W
9362	198236	20 43.9	+69 23	-	-	-	+17.3	21 02	22 00	- 1 29 W
9363	210905	22 08.5	+58 34	-	-	-	+17.3	22 05	22 51	1 55 W
9364	218 560	23 03.9	+63 41	-	-	-	+17.3	22 55	23 51	2 39 W
9365	222682	23 37.7	+61 07	-	-	-	+17.2	23 34	00 24	3 51 W
9366	6211	00 58.1	51 58	"	"	"	16.9	00 29	01 05	17 W
9367	10110	01 33.8	53 22	"	"	"	17.0	01 06	01 50	1 W
9368	17318	02 42.2	56 40	"	"	"	17.0	01 56	02 48	3 13 W
9369	16458	02 34.4	81 01	"	"	"	17.0	02 25	03 47	3 21 W
9370	25274	03 55.9	68 24	"	"	"	17.0	02 52	03 48	4 21 W
9371	26101	04 02.8	68 16	"	"	"	17.0	03 23	04 05	1 14 W
9372	31563	04 51.8	73 37	"	"	"	17.0	04 00	04 41	2 2 W
9373	32518	04 53.7	69 30	"	"	"	17.0	04 48	05 24	3 21 W
	Trans. Sat			Outside	through lens					

Focus at 23.50 ±

Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
1 14 W	+03 36!	1	6.32 B9 7.21 K2	$\frac{1}{2} \frac{1}{2} \frac{1}{2}$	Note dec. reading - incorrect star? 5 pm in the E.
0 51 W	+56 54	1-2	7.17 G5	$\frac{1}{2} \frac{1}{2} \frac{1}{2}$	Star was not ok cross wires when on slit Grumble with RA setting seeing variable good
0 51 W	+63 46	2-1	7.10 K5	$\frac{1}{2} \frac{1}{2} \frac{1}{2}$	some haze " OK
1 29 W	+69 32	2-1	7.52 K0	$\frac{1}{2} \frac{1}{2} \frac{1}{2}$	haze - variable Strong
0 55 W	+58 46	2	7.52 K0	$\frac{1}{2} \frac{1}{2} \frac{1}{2}$	Strong
0 39 W	+63 54	2-3	7.41 K0	$\frac{1}{2} \frac{1}{2} \frac{1}{2}$	transparency improving slightly, var. seeing Strong
0 55 N	+61 22	2-3	7.61 K2	$\frac{1}{2} \frac{1}{2} \frac{1}{2}$	Strong
0 17 IV	52 12	3	7.34 K2	$\frac{1}{2} \frac{1}{2} \frac{1}{2}$	OK
0 28 IV	53 35	3	7.71 K2	$\frac{1}{2} \frac{1}{2} \frac{1}{2}$	" OK
0 13 E	56 51	3	6.95 F5P	$\frac{1}{2} \frac{1}{2} \frac{1}{2}$	" very strong
0 21 W	01 13	3	6.92 K0	$\frac{1}{2} \frac{1}{2} \frac{1}{2}$	" strong
0 28 E	68 31	3	7.21 K2	$\frac{1}{2} \frac{1}{2} \frac{1}{2}$	" OK
0 02 W	68 10	3	7.41 K0	$\frac{1}{2} \frac{1}{2} \frac{1}{2}$	" Strong
0 02 W	73 40	3	7.76 K0	$\frac{1}{2} \frac{1}{2} \frac{1}{2}$	" OK
0 38 W	69 32	3	7.58 K0	$\frac{1}{2} \frac{1}{2} \frac{1}{2}$	" Strong
			7.5		7 pm good

Date. Friday Oct. 1-2, 1943 H-Y

Julian Day.

[illegible]

at 17⁵⁰ set thermostat with temp at 17.2. Temp unchanged.

ding Time
E.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
1 39 W	16 08	0-1	7.38 KO 1½ 1½ 1½	Heavy bank of clouds rising in NW. Much haze. <i>good</i>
1 02 W	28 58	1	7.38 KO 1½ 1½ 1½	Forbes result to 23.48! <i>good</i> During this exposure RA setting motion stayed on at one tile. Fixed by opening up hand switch.
				Clouds much of last 15 ^m of exposure.
1 56 W	430 24	1-2	7.28 KO 1½ 1½ 1½	Outside of door becoming wet. <i>good</i> Clouds last 15 minutes of exposure.
				Tight at midnight -
				↑ This does not refer to observer of first half of night.

Date September 1943 Oct. 2-3 N-L Julian Day _____[illegible]

Date Sunday, October 3-4, 1943 H-Y Julian Day

[illegible]

Trans set 23.61

Ending Time
E.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
1 18 W	+18 38	2	7.45 K5 $1\frac{1}{2} 1\frac{1}{2} 1\frac{1}{2}$	Start delayed by clouds; Clouds much of first 40 min. OK
1 04 W	+01 11	2-1	7.13 G5 $1\frac{1}{2} 1\frac{1}{2} 1\frac{1}{2}$	Light clouds 19 ⁴⁰ - 20 ⁰⁰ ; 20 ¹⁰ - 20 ¹⁸ well centered
1 02 W	+05 15	1-2	7.30 K0 $1\frac{1}{2} 1\frac{1}{2} 1\frac{1}{2}$	Light clouds occasionally little strong
0 40 W	+49 21	2	7.12 K0 $1\frac{1}{2} 1\frac{1}{2} 1\frac{1}{2}$	strong
1 08 W	+61 16	2	7.40 K5 $1\frac{1}{2} 1\frac{1}{2} 1\frac{1}{2}$	VARIABLE VEL.? Breezy; saw windscreen up 2 sec. at 19 ⁴⁰
1 03 W	+53 36	2	7.33 K2 $1\frac{1}{2} 1\frac{1}{2} 1\frac{1}{2}$	Image small but unstable due to breeze. strong
1 22 W	+24 14	2-3	7.95 Ma $1\frac{1}{2} 1\frac{1}{2} 1\frac{1}{2}$	Used relay downstairs to move Dome. OK
1 25 W	+10 52	2 1	7.20 K0 $1\frac{1}{2} 1\frac{1}{2} 1\frac{1}{2}$	strong
1 15 W	+29 44	2	7.40 K0 $1\frac{1}{2} 1\frac{1}{2} 1\frac{1}{2}$	strong
1 02 W	+29 55	2	7.60 K0 $1\frac{1}{2} 1\frac{1}{2} 1\frac{1}{2}$	strong
41 W	+42 16	2	6.94 G5 $1\frac{1}{2} 1\frac{1}{2} 1\frac{1}{2}$	Mass Jupiter Saturn Venus + Orion etc make a brilliant morning sky
43 W	+00 01	2	7.10 K0 $1\frac{1}{2} 1\frac{1}{2} 1\frac{1}{2}$	strong
47 W	+01 56	2-1	7.37 K0 $1\frac{1}{2} 1\frac{1}{2} 1\frac{1}{2}$	strong
26 W	33 31	2	7.43 K0 $1\frac{1}{2} 1\frac{1}{2} 1\frac{1}{2}$	strong
			7-5-	from good.
				NOTE - Comparison to work on June 3, 1961

Date Tuesday, October 5-6, 1943 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
9409	H.D. 174369	18 45.1	+24 56	I-25	E-103a	008	11.8	18 26	18 54	3
9410	182272	19 18.8	+33 19	"	"	"	12.0	18 56	19 36	4
9411	186121	19 37.5	+42 50	"	"	"	12.0	19 39	20 23	1
9412	200430	20 58.5	+14 20	"	"	"	11.8	20 38	21 50	2
9413	212150	22 17.1	+76 00	"	"	"	11.7	21 55	22 29	3
9414	216102	22 45.0	+62 24	"	"	"	11.8	22 33	23 21	4
9415	220130	23 16.2	+61 40	"	"	"	11.7	23 04	23 44	1
9416	224784	23 55.5	+59 01	"	"	"	11.5	23 46	00 16	2
9417	4321	00 40.6	54 45	"	"	"	11.4	00 19	00 35	5
9418	4881	00 45.8	51 02	"	"	"	11.6	00 38	00 50	4
9419	5357	00 50.4	68 15	"	"	"	11.5	00 55	01 11	1
9420	6028	00 56.5	50 30	"	"	"	11.5	01 15	01 31	2
9421	12005	01 52.8	77 26	"	"	"	11.5	01 37	02 05	3
9422	16024	02 29.4	65 19	"	"	"	11.6	02 09	02 29	4

Cont on next page

Trans set 23.59

ading Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS							
	0 44 W	+24 58	1	6.56	A0	1 1/2 1 1/2 1 1/2	Oct. 4	MC	SC	SW	MT	ST
								-12.8	+24.1	-49.5	-03.8	+0.3
	0 53 W	+33 24	1-2	7.30	K0	1 1/2 1 1/2 1 1/2						
	1 22 W	+42 56	1-2	7.74	Ma	1 1/2 1 1/2 1 1/2	Dense smoke in dome 19 ⁵⁰ 19 ⁵⁵					
	1 27 W	+44 30	1	7.73	Ma	1 1/2 1 1/2 1 1/2						slightly worse
	2 48 W	+76 14	1-2	6.56	A0	1 1/2 1 1/2 1 1/2	GET STRONG					
	0 52 W	+62 27	2	7.16	K0	1 1/2 1 1/2 1 1/2						slightly heavy
	1 05 W	+61 53	2-3	7.61	K5	1 1/2 1 1/2 1 1/2	seeing variable					
	56 W	+59 13	3	7.37	K0	1 1/2 1 1/2 1 1/2						too heavy
	30 W	+54 59	3	6.58	A2	2 1/2 - 2 1/2						too heavy
	40 W	51 13	3	6.24	A0	2 1/2 - 2 1/2						too heavy
	55 W	68 26	3	6.66	F0	2 1/2 - 2 1/2						entirely too heavy
	1 10 W	50 43	3	6.70	A3	2 1/2 2 1/2						too heavy
	45 W	77 38	3	7.35	K0	1 1/2 1 1/2 1 1/2						very heavy
	33 W	65 29	3	7.07	K0	2 1/2 - 2 1/2						

Date Cont'd Y Julian Day

[illegible]

[illegible]

Focus 23.50

ding Time E.S.T.	hr. L	Dec.	Seeing	Mag	Comp.	
9 55	18 W	37 14	2	7.14	G5	$1\frac{1}{2}-1\frac{1}{2}-1\frac{1}{2}$ strong
9 58	56 W	34 15	2	8.12	Ma	$1\frac{1}{2}-1\frac{1}{2}-1\frac{1}{2}$ good
10 52	97 W	13 00	2	7.85	Ma	$1\frac{1}{2}-1\frac{1}{2}-1\frac{1}{2}$ little more at
10 56	77 W	7 55	2-1	8.01	Ma	$1\frac{1}{2}-1\frac{1}{2}-1\frac{1}{2}$ " "
11 01	93 W	26 38	1	7.85	Ma	$1\frac{1}{2}-1\frac{1}{2}-1\frac{1}{2}$ " weak
11 02	O ¹⁰ W	23 40	1-2	7.44	K0	$1\frac{1}{2}-1\frac{1}{2}-1\frac{1}{2}$ good
11 05	O ⁰³ E	40 46	1-2-3	7.39	K0	$1\frac{1}{2}-1\frac{1}{2}-1\frac{1}{2}$ Seeing variable little strong
11 07	O ¹⁰ E	09 18	1-2	7.30	K0	$1\frac{1}{2}-1\frac{1}{2}-1\frac{1}{2}$ strong
11 08	O ⁰³ E	01 38	1-2-3	7.05	K0	$1\frac{1}{2}-1\frac{1}{2}-1\frac{1}{2}$ Light haze good
11 10	O ⁰⁰	04 40	3	7.03	G0	$1\frac{1}{2}-1\frac{1}{2}-1\frac{1}{2}$ good
11 12	O ⁰² W	06 03	3-2	7.72	G5	$1\frac{1}{2}-1\frac{1}{2}-1\frac{1}{2}$ good
11 15	O ⁰³ W	06 27	2-1	7.61	K2	$1\frac{1}{2}-1\frac{1}{2}-1\frac{1}{2}$ ok
11 17	O ³⁰ W	22 37	2-1	7.54	K2	$1\frac{1}{2}-1\frac{1}{2}-1\frac{1}{2}$ good
					7-5	Focus good

Date Thursday 1943 Oct. 7-8 N-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
9443	HD 177199	18 58.6	+19 31	1-25	E-103a-0	.008	+20.2	18 41	19 21	1 06W
9444	190658	20 00.9	+15 13	-	-	-	+20.3	19 25	20 39	2 21W
9445	203358	21 16.6	+32 02	-	-	-	+20.3	20 45	21 23	3 25W
9446	207636	21 45.3	+69 41	-	-	-	+20.3	21 29	21 47	4 04W
9447	213242	22 25.0	+63 34	-	-	-	+20.3	21 52	22 28	1 247W
9448	220074	23 15.8	+61 26	-	-	-	+20.3	22 32	23 42	2 10
9449	2952	00 27.7	+54 21	-	-	-	20.0	23 45	00 21	3 37W
9450	7925	01 13.8	75 43	"	"	"	20.1	00 26	00 52	4 26W
9451	8424	01 18.4	70 27	"	"	"	20.1	00 56	01 26	1 26W
9452	17958	02 48.1	63 55	"	"	"	20.1	01 32	02 32	2 26W
9453	20104	03 18.1	65 17	"	"	"	20.0	02 38	03 02	3 26W
9454	24164	03 45.8	71 31	"	"	"	20.0	03 07	03 35	4 26W
9455	26076	04 02.6	71 52	"	"	"	20.0	03 36	04 04	1 23W
9456	33541	05 05.9	73 09	"	"	"	20.0	04 07	04 49	2 26W
9457	34653	05 14.0	77 53	"	"	"	20.0	04 23	04 57	3 17W
9458	39429	05 47.5	66 05	"	"	"	20.0	04 55	05 40	4 26W

Focus set 23.46 ±

ding Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
21	1 06 W	+19 33	0-1-2	7.25 K ₀	$\frac{1}{2} \frac{1}{2} \frac{1}{2}$ Delay due to not checking position of slit!
29	1 21 W	+15 18	1	7.91 M ₀	$\frac{1}{2} \frac{1}{2} \frac{1}{2}$ variable seeing Trouble with dome turning.
3	0 50 W	+32 12	1-2	7.22 G ₅	$\frac{1}{2} \frac{1}{2} \frac{1}{2}$ Double? - two components much same brightness - not completely resolved
47	0 46 W	+69 52	2	6.42 A ₀	$\frac{1}{2} \frac{1}{2} \frac{1}{2}$ GET STRONG
23	0 47 W	+63 46	2	7.38 K ₀	$\frac{1}{2} \frac{1}{2} \frac{1}{2}$ variable seeing
2	1 10	+61 38	2-1-0	7.80 K ₅	$\frac{1}{2} \frac{1}{2} \frac{1}{2}$
21	0 37 W	+54 34	2-1	7.14 K ₀	$\frac{1}{2} \frac{1}{2} \frac{1}{2}$
2	0 26 W	75 36	2-1	6.53 A ₃	$\frac{1}{2} \frac{1}{2} \frac{1}{2}$
2	0 40 W	70 40	2-1	6.52 A ₀	$\frac{1}{2} \frac{1}{2} \frac{1}{2}$ Get heavy!
2	0 26 W	64 06	2	7.75 K ₅	$\frac{1}{2} \frac{1}{2} \frac{1}{2}$
2	0 35 W	65 26	2	6.41 A ₂	$\frac{1}{2} \frac{1}{2} \frac{1}{2}$
2	0 25 W	71 37	2	6.67 F ₀	$\frac{1}{2} \frac{1}{2} \frac{1}{2}$
2	0 25 W	71 38	2	6.93 G ₅	$\frac{1}{2} \frac{1}{2} \frac{1}{2}$
2	0 06 E	73 11	2	5.76 A ₀	2-2
2	0 17 W	77 55	2	6.68 A ₅	$\frac{1}{2} \frac{1}{2} \frac{1}{2}$
2	0 45 W	66 05	2	7.59 K ₀	$\frac{1}{2} \frac{1}{2} \frac{1}{2}$

Friday, October 8-9, 1943 H-L

											Hour Angle End
9443	H.D. 177 199	18 58.6	+19 31	I-25	E-103a-0	Set .008	21.2	18 19	18 53	1	0 41 W
9444	186776	19 41.4	+40 28	"	"	"	21.3	18 57	19 57	2	0 4 W
9445	199442	20 52.1	+00 05	"	"	"	21.2	20 03	20 53	3	0 49 W
9446	205924	21 33.5	+05 19	"	"	"	21.2	20 56	21 16	4	0 29 W
9447	207636	21 46.0	+69 41	"	"	"	21.1	21 22	21 50	1	0 54 W
9448	213242	22 25.0	+63 34	"	"	"	21.1	21 53	22 43	2	0 6 W
9449	220242	23 17.1	+26 05	"	"	"	21.1	22 48	23 28	3	0 59 W
9450	1419	00 13.2	+10 39	"	"	"	21.0	23 31	00 23	4	0 58 W
9451	7925	01 13.8	75 43	"	"	"	20.8	00 32	01 08	1	0 41 W
9452	8424	01 18.4	70 27	"	"	"	20.8	01 11	01 41	2	0 09 W
9453	17958	02 48.1	63 55	"	"	"	20.8	01 45	02 55	3	0 54 W
9454	20104	03 08.8	65 17	"	"	"	20.8	02 53	03 22	4	0 00 W
9455	24164	03 45.8	71 31	"	"	"	20.8	03 27	03 57	1	0 57 W
9456	26076	04 02.6	71 52	"	"	"	20.8	04 00	04 38	2	0 21 W
9457	33541	05 05.9	73 09	"	"	"	20.8	04 42	04 58	3	0 37 W
9458	34653	05 14.0	77 53	"	"	"	20.8	05 02	05 36	4	0 05 W

Transit 23.44

Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
0 41 W	+19 34	1-2	7.25	K0 $1\frac{1}{2} 1\frac{1}{2} 1\frac{1}{2}$	good
1 04 W	+40 34	2	7.79	Ma $1\frac{1}{2} 1\frac{1}{2} 1\frac{1}{2}$	* Time lost turning dome from below. good
0 48 W	+00 14	1	7.33	K2 $1\frac{1}{2} 1\frac{1}{2} 1\frac{1}{2}$	* good
0 29 W	+05 30	1	6.08	F0 $1\frac{1}{2} 1\frac{1}{2} 1\frac{1}{2}$	FUZZY LINES Wind from W to SW good
0 54 W	+69 52	1-2	6.42	A0 $1\frac{1}{2} 1\frac{1}{2} 1\frac{1}{2}$	GET STRONG Seeing & wind very variable. good
1 06 W	+63 46	1	7.38	K0 $1\frac{1}{2} 1\frac{1}{2} 1\frac{1}{2}$	good
0 59 W	+26 19	0-1	6.98	F2 $1\frac{1}{2} 1\frac{1}{2} 1\frac{1}{2}$	strong
0 58 W	+10 53	1-0	7.20	K0 $1\frac{1}{2} 1\frac{1}{2} 1\frac{1}{2}$	Image unsteady strong
0 41 W	75 56	1	6.53	A3 $1\frac{1}{2} 1\frac{1}{2} 1\frac{1}{2}$	Light clouds. good
1 09 W	70 41	1	6.52	A0 $1\frac{1}{2} 1\frac{1}{2} 1\frac{1}{2}$	Get heavy. good
0 54 W	64 04	1-2	7.75	K5 $1\frac{1}{2} 1\frac{1}{2} 1\frac{1}{2}$	little more
1 00 W	65 26	2	6.41	A2 $1\frac{1}{2} 1\frac{1}{2} 1\frac{1}{2}$	good
0 57 W	71 38	2-1	6.67	F0 $1\frac{1}{2} 1\frac{1}{2} 1\frac{1}{2}$	must be strong
1 21 W	71 58	2-1	6.93	G5 $1\frac{1}{2} 1\frac{1}{2} 1\frac{1}{2}$	too strong
0 37 W	77 11	2-1	5.76	A0 $1\frac{1}{2} 1\frac{1}{2} 1\frac{1}{2}$	too "
1 05 W	77 55	2-1	6.68	A5 $1\frac{1}{2} 1\frac{1}{2} 1\frac{1}{2}$	too "

Date Saturday, 1943 October 9-10 N-L Julian Day.

[illegible]

Dev & Hypo meet at

140

Clouds at sunset, gradually clearing.

Focus set 23.51 ±

ing Time
E.S.T.

Hour Angle: End	Declination	Seeing	Ptg. Mag.	REMARKS
1 24 W	+02 42	O	7.35 Ko $1\frac{1}{2}$ $1\frac{1}{2}$ $1\frac{1}{2}$	seeing terrible! west
0 38 W	+16 56	O	6.52 Fo $1\frac{1}{2}$ $1\frac{1}{2}$ $1\frac{1}{2}$	west
0 37 W	+35 26	O	6.53 Ao $1\frac{1}{2}$ $1\frac{1}{2}$ $1\frac{1}{2}$	GET STRONG west
0 56 W	+02 42	O-1	6.96 Ko $1\frac{1}{2}$ $1\frac{1}{2}$ $1\frac{1}{2}$	west
1 33 W	+22 19	O	7.65 Ma $1\frac{1}{2}$ $1\frac{1}{2}$ $1\frac{1}{2}$	west
1 50 W	27 31	O	7.37 Mb $1\frac{1}{2}$ $1\frac{1}{2}$ $1\frac{1}{2}$	seeing vile! west
2 17 W	15 36	O	7.59 Ko $1\frac{1}{2}$ $1\frac{1}{2}$ $1\frac{1}{2}$	west
0 23 W	44 21	O	7.72 Ko $1\frac{1}{2}$ $1\frac{1}{2}$ $1\frac{1}{2}$	7.5
*Power went off at 04 ⁵⁴ without warning, although it flicked off and on sometime earlier. Vanted around and closed up when power came back on at 05 ⁴⁰				
Focus displaced to 23.51 ±				

obs. made

Date Sunday, October 10-11, 1943 H-Y Julian Day

[illegible]

Focus set 23.61

ing Time L.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
26	1 16 W	+52 20	0	6.93 KO $1\frac{1}{2} 1\frac{1}{2} 1\frac{1}{2}$	NE winds, <i>Hot as hell</i> - Strong
0 3	1 04 W	+50 04	0-1	6.58 A2 $1\frac{1}{2} 1\frac{1}{2} 1\frac{1}{2}$	GET HEAVY. - good
15 3	1 10 W	+50 07	0-1	7.45 KO $1\frac{1}{2} 1\frac{1}{2} 1\frac{1}{2}$	Too
2 2	1 24 W	+62 25	1-0-1	7.51 M6 $1\frac{1}{2} 1\frac{1}{2} 1\frac{1}{2}$	Seeing becoming constantly, then improving. Fine
3 1	1 04 W	+52 30	1-2	7.26 KO $1\frac{1}{2} 1\frac{1}{2} 1\frac{1}{2}$	very strong
5 1	0 50 W	+49 41	2	7.36 KO $1\frac{1}{2} 1\frac{1}{2} 1\frac{1}{2}$	Too "
7 1	62 W	54 33	1	7.14 KO $1\frac{1}{2} 1\frac{1}{2} 1\frac{1}{2}$	" "
1 38	80 W	47 06	1-0	7.41 KO $1\frac{1}{2} 1\frac{1}{2} 1\frac{1}{2}$	Strong
2 15	48 W	50 19	1-0	6.53 FO $1\frac{1}{2} 1\frac{1}{2} 1\frac{1}{2}$	" "
2 5 3	1 32 W	55 16	1-0	6.62 A2 $1\frac{1}{2} 1\frac{1}{2} 1\frac{1}{2}$	" "
3 2 3	63 W	53 42	1-2	6.67 FO $1\frac{1}{2} 1\frac{1}{2} 1\frac{1}{2}$	fuzzy lines " "
3 57	1 26 W	57 38	1-2	6.83 FS $1\frac{1}{2} 1\frac{1}{2} 1\frac{1}{2}$	" "
4 2	1 20 W	57 46	1-2	5.79 AO $1\frac{1}{2} 1\frac{1}{2} 1\frac{1}{2}$	1st cut plate " "
4 57	41 W	40 24	1-2	7.32 KO $1\frac{1}{2} 1\frac{1}{2} 1\frac{1}{2}$	Strong
5 4	37 W	54 31	1-2	7.26 KO $1\frac{1}{2} 1\frac{1}{2} 1\frac{1}{2}$	Strong
				7-5	Focus OK

Date Monday Oct 11-12 / 43

Y-L

Julian Day

[illegible]

ing Time
E.S.T.

ing Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp.	REMARKS	Focus 23.55
37	71 W	62 26	0-1	7.64	K5	$1\frac{1}{2} 1\frac{1}{2} 1\frac{1}{2}$	waited for * to cross meridian	good
053 2	49 W	67 51	0-1-2	7.91	Ma	$1\frac{1}{2} 1\frac{1}{2} 1\frac{1}{2}$		good
57 3	93 W	59 29	1-2	7.79	Ma	$1\frac{1}{2} 1\frac{1}{2} 1\frac{1}{2}$	haze	good
40 4	72 W	53 44	1-2	7.47	K0	$1\frac{1}{2} 1\frac{1}{2} 1\frac{1}{2}$	seems improving rapidly	starry
24 5	68 W	61 40	2-3	7.80	K5	$1\frac{1}{2} 1\frac{1}{2} 1\frac{1}{2}$		good
	145 W	64 12	3	8.20	Ma	$1\frac{1}{2} 1\frac{1}{2} 1\frac{1}{2}$		good
	026 W	07 59	3	8.01	M6	$1\frac{1}{2} 1\frac{1}{2} 1\frac{1}{2}$		good
	015 W	04 15	3	7.66	Ma	$1\frac{1}{2} 1\frac{1}{2} 1\frac{1}{2}$		good
	040 W	45 08	3	7.77	Ma	$1\frac{1}{2} 1\frac{1}{2} 1\frac{1}{2}$		too starry
	045 W	21 31	3	7.61	G5	$1\frac{1}{2} 1\frac{1}{2} 1\frac{1}{2}$		starry
	050 W	09 50	3	7.62	K0	$1\frac{1}{2} 1\frac{1}{2} 1\frac{1}{2}$		good
	016 W	22 25	3	7.52	K0	$1\frac{1}{2} 1\frac{1}{2} 1\frac{1}{2}$		starry
							They clouding over Therrell's closed. Beautifully Focus good	
							Note. how clear the new comets work	

fine batch of plates

Date Tuesday, October 12-13, 1943 H-L Julian Day

[illegible]

Thick haze at low altitudes; fairly clear overhead

Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS	
					From 23.50	
2 43 W	+49 23	0-1	7.26	K0	$1\frac{1}{2} 1\frac{1}{2} 1\frac{1}{2}$	NE wind. Some light haze, good
1 58 W	+55 19	0-1	7.87	M6	$1\frac{1}{2} 1\frac{1}{2} 1\frac{1}{2}$	Haze. good
0 30 W	+49 43	1-2	5.76	A0	$1\frac{1}{2} 1\frac{1}{2} 1\frac{1}{2}$	GET STRONG good
1 11 W	+54 37	1-2	7.16	K0	$1\frac{1}{2} 1\frac{1}{2} 1\frac{1}{2}$	seeing very variable. Some clouds. little strong
2 20 W	+49 03	1-2	7.52	K0	$1\frac{1}{2} 1\frac{1}{2} 1\frac{1}{2}$	Light clouds little strong
1 04 W	+40 46	1-2	7.06	G5	$1\frac{1}{2} 1\frac{1}{2} 1\frac{1}{2}$	little strong
1 35 W	+26 19	2	7.59	K2	$1\frac{1}{2} 1\frac{1}{2} 1\frac{1}{2}$	Haze little strong
2 17 W	28 14	2-3	7.98	Ma	$1\frac{1}{2} 1\frac{1}{2} 1\frac{1}{2}$	Haze, clouds, little strong
0 23 W	24 15	2-3	7.38	K0	$1\frac{1}{2} 1\frac{1}{2} 1\frac{1}{2}$	Haze more clouds, good
0 02 E	43 22	2	7.52	K0	$1\frac{1}{2} 1\frac{1}{2} 1\frac{1}{2}$	Wanted for clouds to thin out, clouds. good strong
					7-5	more clouds, stars gone at 4.50

Date Thursday 1943 October 14-15 N-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
9504	H.D. 182635	19 20.5	+36 15	1-25	E-103aD	^{det} 008	+15.3	18 13	18 57	1 48W
9505	190658	20 00.9	+15 13	"	"	"	+15.7	19 02	20 18	2 28W
9506	203857	21 19.7	+36 55	"	"	"	+15.6	20 22	21 34	3 26W
9507	214979	22 36.9	+30 26	"	"	"	+15.7	21 33	22 34	4 09W
9508	221776	23 29.9	+37 29	"	"	"	+15.7	22 38	23 28	1 31W
9509	2924	00 27.4	+27 01	"	"	"	+15.6	23 32	23 54	2 38W
3510	6953	01 04.9	+24 36	"	"	"	15.4	22 57	00 42	3 50
Friday October 15-16, 1943						Cloudy with very heavy rain.				
Saturday October 16-17, 1943						Cloudy with rain.				
Sunday Oct 17-18, 1943						Cloudy				

Recus 23.53 ±

		MC	SC	SW	MT	ST
Oct. 18	12	-13.2	+19.9	+22'	-03'	-0.1 ^m
				reset	reset	

Date Monday Oct 18-19/43.

Y-L

Julian Day.

[illegible]

Focus 23.68

Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp	REMARKS
73 W	+2 46	1-2	7.56	K5 $1\frac{1}{2} 1\frac{1}{2} 1\frac{1}{2}$	clouds. cleared ^{21³²} then plenty of trouble OK
48 W	+3 30	1	7.50	K0 $1\frac{1}{2} 1\frac{1}{2} 1\frac{1}{2}$	with focusing belt. ^{but too heavy}
29 W	+6 37	1	5.66	A0 $2\frac{1}{2} - 2\frac{1}{2}$	clouds. OK
Closed at 2.30 sky completely cloudy, no sign of clearing. Heat on					
Plates not developed.					
Turned out new small pulley for focusing gear. I think pulley need lining up better, but did not have time to do this. Y.					

Date Tuesday, October 19-20, 1943 H-L Julian Day

[illegible]

Trans left at 23.68

Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
Cloudy most of day. Rain late afternoon. Partially clearing around dark. Partly cleared up about 18 ³⁵ but filled in before starting. Light drizzle 18 ⁵⁰ . Clouds with part clear intervals thereafter. A few scattered clouds during afternoon. good				
1 10W	+19 35	0	6.92 F8	1 1/2 1 1/2 1 1/2
0 54W	+40 24	0-1	7.41 K0	1 1/2 1 1/2 1 1/2
1 00W	+32 49	0-1	7.31 K0	1 1/2 1 1/2 - 1 1/2
0 56W	33 33	0-1	7.25 K0	1 1/2 - 1 1/2 - 1 1/2
0 10W	37 49	1	7.33 G5	1 1/2 - 1 1/2 - 1 1/2
0 08W	39 45	1	7.52 K0	1 1/2 - 1 1/2 - 1 1/2
0 17W	02 45	1-0	7.42 K0	1 1/2 - 1 1/2 - 1 1/2
0 45W	08 26	0	5.90 A5	1 1/2 - 1 1/2 - 1 1/2
				7-5
Strong wind seeing poor seeing worse				

Date Wednesday Oct 20-21

Y-L

Julian Day

[illegible]

Focus 23.64

Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp.	REMARKS
1 21W	+9 30	1	7.38	K0 $1\frac{1}{2} 1\frac{1}{2} 1\frac{1}{2}$	too heavy
57W	42 34	1-2	7.52	K2 $1\frac{1}{2} 1\frac{1}{2} 1\frac{1}{2}$	brisk wind good
48W	32 13	1-2?	7.22	G5 $1\frac{1}{2} 1\frac{1}{2} 1\frac{1}{2}$	unresolved double - hard to guide too heavy
76W	36 20	1-2	7.78	K5 $1\frac{1}{2} - 1\frac{1}{2} 1\frac{1}{2}$	guided on G* as well as possible heavy
55W	0 59	1	7.38	K0 $1\frac{1}{2} - 1\frac{1}{2} 1\frac{1}{2}$	too heavy
79W	20 31	1-2	7.64	Ma $1\frac{1}{2} 1\frac{1}{2} 1\frac{1}{2}$	good
25W	29 45	1-2	7.40	K0 $1\frac{1}{2} 1\frac{1}{2} 1\frac{1}{2}$	much too heavy
039W	13 11	1-2	7.63	Mb $1\frac{1}{2} - 1\frac{1}{2} - 1\frac{1}{2}$	heavy
041W	71 39	2	8.18	Ma $1\frac{1}{2} - 1\frac{1}{2} - 1\frac{1}{2}$	too heavy
130W	68 30	3	7.21	K2 $1\frac{1}{2} - 1\frac{1}{2} - 1\frac{1}{2}$	← not a "wider" struggle with " "
150W	68 22	3	7.41	K0 $1\frac{1}{2} - 1\frac{1}{2} - 1\frac{1}{2}$	left in "focus" in " " too heavy
038W	66 04	3	7.59	K0 $1\frac{1}{2} - 1\frac{1}{2} - 1\frac{1}{2}$	✓ much too heavy
108W	75 35	3	7.70	K5 $1\frac{1}{2} - 1\frac{1}{2} 1\frac{1}{2}$	too heavy
109W	55 22	3	7.53	K0 $1\frac{1}{2} - 1\frac{1}{2} - 1\frac{1}{2}$	good
				7-5	
					7-5 good

Date Thur Oct 21-22

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
9536	HD 179933	19 09.4	65 49	I-25	E103a-O	.008	+13.0	6 05	6 21	1 5W
9537	184102	19 27.8	79 24	"	"	"	13.0	6 25	6 35	1 50W
9538	187764	19 46.6	68 11	"	"	"	13.1	6 39	6 59	2 39W
9539	190252	19 59.0	70 05	"	"	"	13.1	7 03	7 23	2 45W
9540	196787	20 34.5	81 05	"	"	"	?	7 27	7 39	3 47W
9541	197508	39.1	83 17	"	"	"	?	7 43	7 51	3 55W
9542	199095	49.8	82 10	"	"	"	?	7 57	8 02	4 55W
9543	"	"	"	"	"	"	?	8 03	8 09	4 52W
9544	197101	20 36.4	55 39	"	"	"	13.0	8 28	8 46	1 49W
9545	209258	21 56.9	74 31	"	"	"	13.0	8 51	9 21	1 44W
9546	217673	22 57.3	56 34	"	"	"	13.0	9 26	9 48	2 50W
9547	218560	23 03.9	63 41	"	"	"	13.0	9 52	10 10	2 50W
9548	222682	23 37.7	61 07	"	"	"	13.0	10 14	10 36	3 43W
9549	224309	23 51.7	82 38	"	"	"		10 42	10 52	4 50W

Cont on next page

Focus 23.57

Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp.	REMARKS	
6 31	51 W	65 53	2	6.25	A2	$2\frac{1}{2} - 2\frac{1}{2}$	} set 3 (Strong) good
6 35	50 W	?	2	6.06	A0	$2\frac{1}{2} - 2\frac{1}{2}$	} " 8 " good
6 59	53 W	68 17	2	6.63	F0	$2\frac{1}{2} - 2\frac{1}{2}$	} set 3 too heavy
7 13	65 W	70 12	2	7.24	G5	$2\frac{1}{2} - 2\frac{1}{2}$	} " 8 too heavy
7 20	47 W	?	3	6.62	K0	$2\frac{1}{2} - 2\frac{1}{2}$	} set 3 Br * E. left in funder too heavy
7 51	55 W	?	3	6.22	A2	5	} " 8 much too heavy
8 02	55 W	?	3	5.69	A0	5	} set 3 good
8 09	102 W	?	3	5.69	A0	5	} " 8 good
8 16	149 W	55 47	3	6.78	F0	$2\frac{1}{2} - 2\frac{1}{2}$	} " 3 stopped to cut plates etc too strong
9 21	104 W	74 44	3 ⁺	7.82	K5	$1\frac{1}{2} \ 1\frac{1}{2} \ 1\frac{1}{2}$	} " 8 "
9 49	30 W	56 48	3 ⁺	7.57	K2	$2\frac{1}{2} - 2\frac{1}{2}$	} " 3 too strong
10 1	50 W	63 55	4	7.41	K0	$2\frac{1}{2} - 2\frac{1}{2}$	} " 8 "
10 30	33 W	61 21	4	7.61	K2	$1\frac{1}{2} - 1\frac{1}{2} - 1\frac{1}{2}$	} set 3 too strong
10 51	40 W	82 52	4	6.42	A0	$2\frac{1}{2} - 2\frac{1}{2}$	} " 8 ok

Date _____

Cont'd

Julian Day

[illegible]

Date Oct 22-23 Frid.

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Julian Day

[illegible]

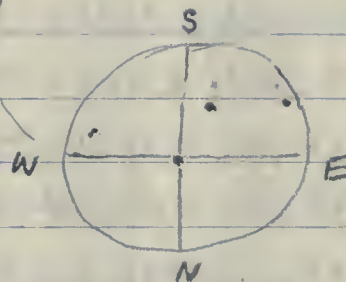
160

iding Time
E.S.T.

5 08

6 03

Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp.	REMARKS	Focus 23.65
1 21 W	40 08	1-0	7.18	K0 $2\frac{1}{2} - 2\frac{1}{2}$	Set 3	Strong
1 10 W	37 09	1-0	7.24	K0 $2\frac{1}{2} - 2\frac{1}{2}$	1 8 clouds	good



finder field

cloudy all day - cloudy at 1⁰⁰ a.m.
 woke up 4³⁰ A.S.T. clear.

Date Sunday October 24-25, 1943 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.
9560	{ HD 213644	22 27.9	+15 20	I-25	E-103a-0	S _w 008	7.0	20 50	21 42 } 3
9561	{ 221491	23 27.5	+34 25	"	"	"	7.0	21 45	22 21 }
9562	{ 1075	20 09.9	+30 59	"	"	"	7.1	22 23	23 33 } 4
9563	{ 8375	01 17.9	+33 43	"	"	"	7.0	23 36	0 16 }
9564	{ 13522	02 06.9	23 43	"	"	"	6.9	0 20	1 00 } 1
9565	{ 14067	02 11.5	23 19	"	"	"	6.9	1 03	1 16 }
9566	{ 32482	04 58.4	21 09	"	"	"	6.1	3 32	5 00 } 2
	{ Focus test		{ auto. de H. band						

From NE wind.

Strong NE wind.
Clouds breaking + returning 19³⁰ - 20⁴⁰

ing Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS	Focus unchanged 23.65
1-2	04W	+15 33	0-1	7.36 KO	1 1/2 1 1/2 1 1/2 } setting 3 A few clouds.	good
2-2	04W	+34 38	0-1	6.55 AO	1 1/2 1 1/2 1 1/2 } setting 8 GET STRONG	good
3-3	14W	+31 13	1	7.79 K5	1 1/2 1 1/2 1 1/2 } setting 3 Brilliant aurora. some red.	good
4-4	48W	-33 55	1	7.12 G5	1 1/2 1 1/2 1 1/2 } " 8 slightly strong	strong
5-5	43W	+23 52	1	7.19 KO	1 1/2 1 1/2 1 1/2 } setting 3 good	good
6-6	55W	23 28	1-0	7.28 G5	1 1/2 1 1/2 } " 8 cloudy 1 1/2 Tight for 2 hrs (heat off)	weak
7-7	50W	21 11	1-0	7.34 KO	1 1/2 1 1/2 1 1/2 } setting 3 clouds, haze n.g. 7-5 " 8 ok	ok
5 plates to develop						
focus ok						

Focus set at 23.69

Hour Angle End	Declination	Seeing	Ptg. Mag.		comp	REMARKS
						Clearing slowly before midnight, came up at midnight, some clouds around, waited till they cleared off.
10 55 37 45 42 N 3	O ⁰⁵ E	06 02	2	7.10	G5	1½-1½-1½ } set 3 } do strong
	O ¹² E	00 35	2	7.18	K0	1½-1½-1½ } " 8 } Light clouds good
	C ¹⁷ W	34 48	2	7.48	K0	1½-1½-1½ } " 3 } Long clouds good
	O ²¹ W	49 00	2	7.22	G5	1½-1½-1½ } " 8 } good
	C ⁴² W	49 54	2-3	6.85	G5	1½-1½-1½ } " 3 } Hazy strong
	O ³⁹ W	51 11	2-3	7.23	K0	1½-1½-1½ } " 8 } to strong
	O ⁴⁶ W	12 30	2	7.35	K5	1½-1½-1½ } good
					7-5	4 plates

Focus OK

Thursday Oct. 28-29, 1943 N

Rain most of day and night,
clearing after dawn.

Oct. 27

MC	SC	SW	MT	ST
-11.0	+10.8	-15°	-07.8	0.0

4:45 P.M. Wed. mirror sweating - Put heat on RMS

Date Friday, October 29-30, 1943 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
9574	HD 179094	19 06.1	+52 16	I-25	E-103a-0	008	9.1	17 58	18 36	1 W
9575	197249	20 37.4	+17 11	"	"	"	9.0	18 39	19 11	44 W
9576	203886	21 19.9	+24 06	"	"	"	9.0	19 14	19 54	2 44 W
9577	208527	21 51.7	+20 48	"	"	"	9.0	19 56	20 56	1 44 W
9578	216201	22 45.8	+18 36	"	"	"	8.9	20 58	21 42	3 44 W
9579	221113	23 24.1	+22 31	"	"	"	9.0	21 45	22 29	5 W
9580	11624	1 49.0	+36 37	"	"	"	8.8	22 33	23 13	4 27 W
9581	8388	1 18.0	+19 57	"	"	"	9.0	23 16	00 00	2 W
9582	15328	2 22.9	1 31	"	"	"	8.9	00 06	1 06	1 53 W
9583	18482	2 53.2	40 38	"	"	"	8.7	1 12	1 48	05 W
9584	26311	4 04.6	33 19	"	"	"				2

cloudy all day. clearing at sunset with clearing
W + NW wind.

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Trans set 23.63

Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
0 44 W	+52 20	0-1	6.93 K0 $1\frac{1}{2} 1\frac{1}{2} 1\frac{1}{2}$	Setting 3 <i>much too strong</i>
0 44 N	+7 22	2	7.27 K0 $1\frac{1}{2} 1\frac{1}{2} 1\frac{1}{2}$	" 8 " " "
0 44 W	+24 16	2-1	7.42 K0 $1\frac{1}{2} 1\frac{1}{2} 1\frac{1}{2}$	" 3 Wind & seeing variable. <i>good</i>
1 14 W	+20 58	1-2	7.80 K5 $1\frac{1}{2} 1\frac{1}{2} 1\frac{1}{2}$	" 8 <i>much too strong</i>
1 14 W	+18 49	1-2	7.50 K0 $1\frac{1}{2} 1\frac{1}{2} 1\frac{1}{2}$	" 3 Brilliant Aurora " " "
1 15 W	+22 44	1-2	7.45 K0 $1\frac{1}{2} 1\frac{1}{2} 1\frac{1}{2}$	" 8 Wind. " " "
0 27 E	+36 52	1-2	7.39 K0 $1\frac{1}{2} 1\frac{1}{2} 1\frac{1}{2}$	" 3 <i>Seeing no steadier than W of meridian.</i> <i>good</i>
5 2 W	+20 11	1-2	7.48 K5 $1\frac{1}{2} 1\frac{1}{2} 1\frac{1}{2}$	" 8 <i>Few light clouds</i> <i>too strong</i>
5 3 W	+1 42	1	7.49 K0 $1\frac{1}{2} 1\frac{1}{2} 1\frac{1}{2}$	" 3 <i>Dome Turning acting up</i> " "
1 05 W	40 43	1-2	7.14 K2 $1\frac{1}{2} 1\frac{1}{2} 1\frac{1}{2}$	" 8 <i>clouds.</i> " "
			6.91 K0	" 3 <i>no good. closed 4³⁰ DST</i>
				<i>raining</i>

Date Saturday 1943 October 30-31 N - 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
9584	HD 210905	22. 08.5	+ 58 34	I-25	E-103aO	Set 0.008	+ 07.5	20 02	20 42	2	(50 W)
	- 217314	22. 54.8	+ 52 06	"	"	"					
9585	H.D. 51000	06 50.4	33 50	I-25	E-10340	Set .008	+ 05.2	04 17	04 43	3	0° 07' W
9586	" 52100	06 54.8	32 32	"	"	"	+ 05.0	04 46	05 16	3	0° 36' W
9587	" G3799	07 45.6	03 32	"	"	"	+ 05.0	05 21	05 50	4	0° 20' W
	Focus lost			Outside through base			V				

Clouds at sunset, gradually clearing.

Focus set 23.65 ±

Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS	
0 41 (50 W)	+58 48	2-1	7.52	K ₀	1½ 1½ 1½	} set. 3 8 } note this. (Broke a much too strong plate when loading)
			7.48	K ₂		
						Clouds while setting. Snow - or some kind of precipitation. Closed up, discomage.
						Power off from 0.40 - 5.50
0 07 W	33 46	1-0	6.57	G ₀	1½ - 1½ - 1½	} set 3 } much too strong
0 36 W	32 27	1-0	6.74	F ₀	1½ - 1½ - 1½	
0 28 W	03 28	1	7.08	G ₅	1½ - 1½ - 1½	" " "
					7.5	good

Date Sunday, Oct 31 - Nov 1

Y.

Julian Day

[illegible]

clear all day, clouded at sunset - cloudy
till about 4⁰⁰ S.T.

170

Focus unchanged.

ding Time
E.S.T.

	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp.	REMARKS
51	36 W	24 39	2	6.90	F5 2 1/2 - 2 1/2	} Setting 3
14	36 W	15 24	2	6.89	K0 2 1/2 - 2 1/2	} " 18
27	46 W	22 41	2	5.91	A0 2 1/2 - 2 1/2	} " 3 (fuzzy line) good
44	104 W	9 12	1-2	5.99	A2 2 1/2 - 2 1/2	} " 8 strong
609	128 W	9 18	1-0	7.02	K0 2 1/2 - 2 1/2	} " 3 Seeing v p at end.
					7-5	} " 8
						(confusion thing)
						focus OK
						MC SC MTW STW
						Nov.1 -11.4 +07.8 -080 +080

Date Mon. Nov 1-2

$$Y-L$$

Julian Day.

[illegible]

Rain, clouds, early evening

Focus 23.65

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp.	REMARKS
00 ⁰²	0 ²² W	00 59	1	7.38	Ko	$1\frac{1}{2} - 1\frac{1}{2} - 1\frac{1}{2}$	OK
00 ⁰³	0 ³³ W	38 20	1	7.21	Ko	$1\frac{1}{2} - 1\frac{1}{2} - 1\frac{1}{2}$	Clouds toward end of exp. OK
							Cloudy all night.
							Don't see condition in spotting, however.
							Too faint to get a good result. Better than others.
							Use 1 plate per exposure.

Cloudy all day. Slowly thinning after sunset.

Focus set 23.67 ±

Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS	
0 27W	+37 18	2	6.92 G5	1 1/2 1 1/2 1 1/2	clouds 20 22 - strong
1 10W	+52 21	2-1	7.48 K2	1 1/2 1 1/2 1 1/2	milky sky - thickening OK
					Closed up 21 55
³⁰ 23 - thick around horizon; haze (2 ^m ?) overhead ³⁰ 0 ³⁰ - completely clouded over. 1 ³⁰ - 2 ³⁰ - 3 ³⁰ (E.S.T) still thick. Went home.					
Nov. 10 - went to sleep for 2 nd half - but cloudy at 11 ⁰⁰ - stayed cloudy all night. at 5 ⁰⁰ a.m.					
MC -08.8 SC +02.3 MT -11.8 ST -0.0					

Date Thursday 1943 Nov. 11-12 N-H Julian Day 2444112

[illegible]

Focus set 23.71 ±

Hour Angle End	Declination	Seeing	Ptg. Mag.				REMARKS
2 00 W	+ 52 19	1	6.93	K0	1 1/2	1 1/2	Binary with comp. H+K good
0 30 W	+ 50 29	1	6.08	F0	1 1/2	1 1/2	good
0 46 W	+ 64 09	1	6.97	G0	1 1/2	1 1/2	good
0 48 W	+ 61 16	1-2	7.40	K5	1 1/2	1 1/2	good
0 58 W	+ 52 11	1-2	7.73	K2	1 1/2	1 1/2	Circus cloud rising in west; good whole sky.
1 14 W	+ 24 13	1-2	7.95	Ma	1 1/2	1 1/2	good
0 26 W	+ 54 59	1-2	6.58	A2	1 1/2	1 1/2	variable seeing too strong
0 47 W	+ 71 26	2	7.38	K0	1 1/2	1 1/2	Star fading 22 48 K Blow dec. setting fence. Halo around moon. Star gone. Closed shutter.
2 11	+ 35 25	1-2	7.37	K2	1 1/2	1 1/2	Clouds & haze from midnight on. big 2' 10"? Haze. This thick cloud seen after start. Star gone 2 ³⁵ - 2 ⁴⁰ ; the fainter visible; fainter 2 ⁵⁵ Star gone 8 ¹⁵ Thick V Focus set

180

Clouds and snowflurries. Clearing about
18.45. Clouds still along NW horizon.

Focus set 23.74 ±

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
0 51	W	+06 36	1	7.14	G10	1 1/2 1 1/2 1 1/2 lunar pillar. Considerable wind. ^{line}
0 12	W	+37 07	1-2	7.00	K0	1 1/2 1 1/2 1 1/2 ^{slur}
1 14	W	+33 47	2	7.49	K0	1 1/2 1 1/2 1 1/2 trouble with dome turning. clouds 20 30-50 ^{good}
1 12	W	+10 52	1-2	7.20	K0	1 1/2 1 1/2 1 1/2 clouds 21 45 - 22 05. more clouds 21 08
1 12	W	+44 35	2-3	7.66	K5	1 1/2 1 1/2 1 1/2 clouds 22 55 - 23 04. Snow forming in dome. ^{good}
1 24		+44 11		7.28	G5	1 1/2 1 1/2 clouds 23 28 - (never cleared) ^{good}
						7- 5

Date Nov 14-15. Sunday Y-H.

Julian Day

focus 23.78

ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp.	REMARKS
8 05	2 12W	52 20	3	6.93	KO	$1\frac{1}{2} - 1\frac{1}{2} \ 1\frac{1}{2}$	
8 4	1 50W	51 40	3	7.63	Ma.	$1\frac{1}{2} \ 1\frac{1}{2} \ 1\frac{1}{2}$	some clouds.
18 5	2 07W	56 10	3	6.46	FO	2 - 2	
19 3	77W	45 30	3	7.82	Mb.	$1\frac{1}{2} - 1\frac{1}{2} \ 1\frac{1}{2}$	
20 08	45W	53 35	3	7.10	KO	2 - 2	
20 4	1 17W	53 37	2-3	7.33	K2	$1\frac{1}{2} - 1\frac{1}{2} - 1\frac{1}{2}$	clouds.
21 20	1 48W	62 37	2-3	7.16	KO	$1\frac{1}{2} \ 1\frac{1}{2} - 1\frac{1}{2}$	" haze.
22 0	46W	54 34	2 ?	7.14	KO	$1\frac{1}{2} \ 1\frac{1}{2} \ 1\frac{1}{2}$	haze very thick (hazy, cloudy)
							thick haze 23 ⁰⁰ ; slowly & more or less steadily thickening up thereafter. Closed up 2 ⁴⁵ .
							MC SC SW MT ST Nov. 15 -07.0 +00.3 -1 12.7 -25.0 -0.2 ^m
							Monday - cloudy all night.
							11/11/100 430 EST clear at dawn

Date Thursday 1943 November 18-19 N-H Julian Day.

Date Tuesday, November 23-24, 1943 H Julian Day.

[illegible]

Focus set 23.75

Strong N wind. Transparency good.

Time EST.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
0 13	1 06 W	+02 43	0	6.96 KO $1\frac{1}{2} 1\frac{1}{2} 1\frac{1}{2}$	Image large & very unstable. good
19 2	0 29 E	+40 47	0-1	7.39 KO $1\frac{1}{2} 1\frac{1}{2} 1\frac{1}{2}$	(Star seems blue for a K? Position O.K.) little heavy
1 56 3	0 22 E	+23 54	1-0	7.19 KO $1\frac{1}{2} 1\frac{1}{2} 1\frac{1}{2}$	Very windy. good
2 35 4	0 16 E	+35 45	1-0	7.16 G5 $1\frac{1}{2} 1\frac{1}{2} 1\frac{1}{2}$	little heavy
3 16 0	0 04 E	+42 18	0	6.94 G5 $1\frac{1}{2} 1\frac{1}{2} 1\frac{1}{2}$	little heavy
4 59 2	17 E	+33 24	0	6.91 KO $1\frac{1}{2} 1\frac{1}{2} 1\frac{1}{2}$	Clouds: star gone 23 ⁵⁰ . Alt means 23 ³³ Closed up 0 ¹⁵⁰ ; cloudy with very strong wind & trace of snow.

Date Nov 24-25 Wednesday Y Julian Day

[illegible]

7 ones 23.70

ing Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp	REMARKS
5 57	2 44W	52 20	2	6.93 KO	$1\frac{1}{2}$ $1\frac{1}{2}$ $1\frac{1}{2}$	Strong
6 27	55W	53 46	1-2	6.98 GS	$1\frac{1}{2}$ $1\frac{1}{2}$ $1\frac{1}{2}$	too "
7 05	1 03W	69 53	2-1	6.42 AO	2 - 2	get strong good
7 45	63W	75 04	1	7.24 KS	$1\frac{1}{2}$ $1\frac{1}{2}$ $1\frac{1}{2}$	? strong
8 00	42W	73 55	2	5.74 AO	2 - 2	strong
8 27	1 37W	58 10	2	6.29 AO	2 - 2	get strong good
9 21	45W	70 39	1-2	6.36 AO	$1\frac{1}{2}$ $1\frac{1}{2}$ $1\frac{1}{2}$	" v. " too strong
9 45	54W	72 22	2	7.04 KO	2 - 2	much too strong
10 04	1 10W	68 27	1-2	6.66 FO	2 - 2	very much " "
10 40	1 19W	77 16	1-2	7.16 GS	$1\frac{1}{2}$ - $1\frac{1}{2}$ $1\frac{1}{2}$	much " "
11 10	1 15W	77 36	2	7.35 KO	$1\frac{1}{2}$ $1\frac{1}{2}$ $1\frac{1}{2}$	much " "
00 15	1 30W	81 14	2 - 1	6.92 KO	$1\frac{1}{2}$ - 2 - 2	too strong
					10 7	

2 do not think heat came on all night.
temp in dome steady.

Date Thursday 1943 November 25-26 N-H Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
9650	HD 200527	20 58.9	+44 25	1-25	E10390	^{set} .008	+07.0	17 33	18 15	1
9651	20534.9	21 29.6	+45 25	"	"	"	+07.1	18 18	18 52	2
9652	207088	21 41.5	+35 24	"	"	"	+07.0	18 57	19 31	3
9653	214313	22 32.2	+35 08	"	"	"	+07.0	19 45	20 19	4
9654	7724	01 11.9	+31 14	"	"	"	+07.0	20 25	21 07	1
9655	14067	02 11.5	+23 19	"	"	"	+07.0	21 12	21 46	2
9656	17378	02 42.2	+56 40	"	"	"	+07.0	21 59	22 21	3
9657	19066	02 58.9	+10 12	"	"	"	+06.9	22 27	22 53	4
9658	18339	02 51.7	+38 13	"	"	"	+06.9	22 56	23 20	1
9659	20162	03 09.3	+14 58	"	"	"	+06.8	23 24	0 28	2
9660	25948	04 01.5	+54 34	"	"	"	+06.8	0 33	0 55	3
9661	30138	04 39.8	+40 08	"	"	"	+06.9	0 59	1 27	4
9662	42049	06 03.5	+22 13	"	"	"	+06.8	1 31	3 21	1
	{ From test - outside the base }									
9663	42471	06 05.8	+32 43	"	"	"	+06.8	0 2 38	3 ²⁴ / ₇₅	2
9664	54801	07 05.2	+27 42	"	"	"	+06.7	03 25	3 44	3

190.

Focus set 23.66 ±

(dew temp. +43°)

Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
2 5	1 13 W	+44 33	2-1	7.73 Mb	1 1/2 1 1/2 1 1/2 OK
2 52	1 19 W	+45 37	2	7.63 K2	1 1/2 1 1/2 1 1/2 OK
9 3	1 45 W	+35 37	2	7.60 K0	1 1/2 1 1/2 1 1/2 too strong
2 5	1 43 W	+35 22	2-3	7.68 K5	1 1/2 1 1/2 1 1/2 (set on wrong side of pier in finder) set 2
1 07	0 09 E	+31 26	2	7.86 K0	1 1/2 1 1/2 1 1/2 seeing variable too strong
2 16	0 30 E	+23 32	1-2	7.28 G5	1 1/2 1 1/2 1 1/2 strong
2 21	3 26 E	+56 52	1-2	6.95 Fsp	1 1/2 1 1/2 1 1/2 trouble with some trailing little "
22 53	0 10 E	+40 22	1-2	7.18 K0	1 1/2 1 1/2 1 1/2 strong
23 20	2 24 W	+38 23	1-2	7.08 K0	1 1/2 1 1/2 1 1/2 OK
2 21	1 15 W	+45 07	1	7.77 Ma	1 1/2 1 1/2 1 1/2 R. to cloud rising in west 23 ⁴⁰ OK
2 55	1 50 W	+54 40	1	6.70 F5	1 1/2 1 1/2 1 1/2 a few light scattered clouds in region. too strong
1 27	1 43 W	+40 11	1	6.90 G5	1 1/2 1 1/2 1 1/2 too "
2 21	1 14 W	+22 11	1	7.11 K2	1 1/2 1 1/2 1 1/2 light clouds 1 ⁵⁷ ; star barely visible much little, weak
					9 ³ -7 ³ Clouds then more out
2 2	1 55 W	+32 43	2	7.03 K2	1 1/2 1 1/2 1 1/2 Clouding again from W & W. rather strong OK
2 4	1 36 W	+26 57	2	5.66 A2	1 1/2 1 1/2 light clouds strong

Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
0 31 W	+38° 28'	2-1	7.07 K5 1 1/2 1 1/2	Falling in rapidly 4 ⁰⁰ very weak completely cloudy. Very bad second half; sky never 50% clear from 1 ⁰⁰ on. West + north sky constantly thick, + clouds kept coming over northern regions. Ident no sun now.
Nov. 29 12 MC SC MT ST_m +01.1 -04.8 -06.7 +0.1				
Friday, Clouded before I could start half clear for a time around 11 D.S.T. cloudy again 11 ³⁰ - still cloudy 12 ⁴⁵ sun-line 4 ¹⁵ cleared suddenly				

Date Friday Dec 3-4 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
9666	HD 283212	4 28.9	01 38	I-25	E103a-0	008	+2.2	12 05		1
Saturday Dec. 4-5 N-H Cloudy all day. Cleared suddenly after sunset. Clouded and cleared alternately all first half. Clearing & clouding 3 times between 0^h - 2^h. Saturday, Dec 4-5 1943 N-H.										
9666	HD 43 358	06 10.7	+01 12	I-25	E-103a-0	008	+3.1	02 10		
9666	61035	07 32.2	+24 36	"	"	"	+2.9	03 05	3 25	2
9667	64938	07 51.2	+04 44	"	"	"	+3.0	3 28	4 28	3
9668	75959	08 48.1	+30 57	"	"	"	+3.0	4 33	4 33	4
	From test		outside the box							
9669	78234	09 12.0	+32 57	"	"	"	+3.0	5 13	5 23	1

Hour Angle
End

Seeing

Ptg. Mag.

Comp

REMARKS

+1 43

7.12	150
------	-----

no good, clouded again.

From act 23.72

6.76 F5

Clouded over rapidly just as exposure was to start

3 65 20 26 W

+24 29

1

6.60 Fe

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

Clearing with strong N wind.

18 19 W

29 W

104 358

1

7.32 KO

壹拾元

Clouds soon after start; stars barely visible - 11.00

Twice.

38 ✓

+ 30 46

1-0

6.60 150

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

8th 2)

75.53

58

OK

54 W

54 W

245

10

6.67 F2

12 12 12

2 Wind increasing, & clouds starting to come over from edge of heavy bank in N. Cloud up 5th 5th
a poor night!

Date _____

Julian Day

[illegible]

1961

ading Time
E.S.T.Hour Angle
End

Declination

Seeing

Ptg. Mag.

REMARKS

	MC	SC	SW	MT	ST
Dec. 6	+05.5	-07.4	-149.9	-17.3	-0.0 ^m

Focus 23.80

Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp	REMARKS
0 12.3	8 E	32 01	1	6.79 G0	$1\frac{1}{2} 1\frac{1}{2} 1\frac{1}{2}$ Too strong
0 47.4	26 W	+00 03 ^v	1	7.10 K0	$1\frac{1}{2} 1\frac{1}{2} 1\frac{1}{2}$ cant see double w  circles check. fine
1 27.1	28 W	+01 45	1	7.12 K0	$1\frac{1}{2} 1\frac{1}{2} 1\frac{1}{2}$ stay inside fine
1 40.2	00	22 13	1-2	6.16 A0	2-2 strong
2 09.3	09 E	9 30	1-2	6.67 G5	2-2 good
4	10 34	1	7.50 K0	$1\frac{1}{2}$	clouded. closed. $1\frac{15}{2}$
					Heat on.
					Focus ok

Date Wednesday Dec. 22-1943 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 21335	03 21.4	+18 25	1-25	5-13a-0	Set 0.8				3
Thursday Dec 23-24 No one on duty. Clear weather extremely cold Christmas eve, cloudy from 10³⁰ on Heat Put on										

Clear most of day; cloudy over at sunset. Partly clearing
 a couple hours early evening. Becoming fairly clear 21³⁰
 Strong N wind

204

iding Time
 E.S.T.

Hour Angle
 End

Declination

Seeing

Ptg. Mag.

REMARKS

6.45 A 2

Clouded over from N before setting was comp. lit. Thick
 Partly clearing for about 1 hour.
 Still mostly cloudy + some light snow at 0¹⁵ -
 Clearing + clouding again later. Clear at dawn

Date Saturday, December 25-26 1943 H Julian Day

[illegible]

206

Heavy haze all around horizon.
Focus set 23.78

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
12:30	1 12W	+50 44	1	6.70 A3	1 1/2 1 1/2 1 1/2	Fine
1:04	1 29W	+40 25	1-0	7.57 K2	1 1/2 1 1/2 1 1/2	Fine
1:40	0 44W	+10 39	1	7.38 K5	1 1/2 1 1/2 1 1/2	Fine
2:10	0 43W	+06 14	1	7.08 F5	1 1/2 1 1/2 1 1/2	Poor lines. 2 nd kind of light to S or SE, + large forming in S. little strong
2:32	0 40W	+57 48	1	5.79 A0	2-2	" "
2:55	0 07W	+59 44	1	7.46 K0	1 1/2 1 1/2 1 1/2	" "
3:15	0 22W	+46 54	1	(6.76) F A	1 1/2 1 1/2 1 1/2	Brighter, N component of wide double. "
3:45	0 49W	+33 12	1	7.30 K0	1 1/2 1 1/2 1 1/2	little "
4:10	0 25W	+61 10	1-0	6.76 F5	1 1/2 1 1/2 1 1/2	" "
4:30	0 40W	+79 39	1-0	6.52 A0	1 1/2 1 1/2 1 1/2	" "
4:50	0 44W	+03 42	1	7.02 K0	1 1/2 1 1/2 1 1/2	ok "
5:10	0 24W	+03 24	1	5.80 A5	2-2	Fuzzy lines
5:30	0 51W	+3 01	1-2	7.50 K0	1 1/2 1 1/2 1 1/2	" "
5:50	0 43W	+05 01	1-2	5.66 A0	2-2	Setting 2
					7-5-5	8
						Put lens in mirror.
						Focus good

Date Tuesday, Dec. 28-29, 1943 H Julian Day.....

[illegible]

Clear + cold (^{outside} zero) with strong N wind (variable)

Focus set 23.86 Temp +8°F in dome

Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
0 51 W	+26 46	0	7.36 K5 1 1/2 1 1/2 1 1/2	Transparency excellent; seeing almost top level.
0 53 N	+08 14	0	7.22 G5 1 1/2 1 1/2 1 1/2	
1 08 W	+18 34	0	6.51 A2 1 1/2 1 1/2 1 1/2	GET STRONG - Seeing improving, but still 10.
1 43 W	+09 18	0	7.20 K0 1 1/2 1 1/2 1 1/2	
2 37 W	+33 56	0	6.66 A5 1 1/2 1 1/2 1 1/2	Fuzzy Lines
3 20 W	+14 26	0	5.73 A2 2-2	GET STRONG
4 17 W	+13 39	0	7.24 G5 1 1/2 1 1/2 1 1/2	
5 21 W	+33 45	0	6.57 G0 1 1/2 1 1/2 1 1/2	
6 51 W	+05 35	0	7.02 F5 1 1/2 1 1/2 1 1/2	
7 58 W	+02 31	0	6.62 F0 1 1/2 1 1/2 1 1/2	
8 56 W	-11 17	0-1	6.30 A0 2-2	Seeing 2
9 28 W	+09 51	0	5.99 A0 2-2	VERY STRONG - Seeing 2
			7-5	Seeing 7
				1.0-1.5 + 1.5
				1.0-1.5 + 1.5

Date _____

Date..... Sunday Jan 3-4

Y

Julian Day

[illegible]

Date Tuesday January 4-5, 1944 H Julian Day 174.5[illegible]

Focus set 23.75

Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
0 33 W	+33 34	1-0	7.25 KO	$1\frac{1}{2} 1\frac{1}{2} 1\frac{1}{2}$ fine
0 35 W	+38 22	1	7.08 KO	$1\frac{1}{2} 1\frac{1}{2} 1\frac{1}{2}$ fine
0 42 W	+65 27	1	6.41 A2	$1\frac{1}{2} 1\frac{1}{2} 1\frac{1}{2}$ GET STRONG fine
0 26 W	+68 31	1-2	7.21 K2	$1\frac{1}{2} 1\frac{1}{2} 1\frac{1}{2}$ Light scatter. OK
1 23 W	+58 21	1-2	7.41 KO	$1\frac{1}{2} 1\frac{1}{2} 1\frac{1}{2}$ Light loads 22 ¹⁰ - ; Stars lost much of last half. S 5 ¹⁰ Thick, then clearing somewhat. ^{clouds} _{used}
5 W	+22 12	1-2	6.16 A1	2-2 GET STRONG - Setting 2 Increasing cloudiness. _{used} $5^s 7^s$ Thick.
				Idea <u>NOT</u> on mirror

Date Thursday 1944 January 6-7 N Julian Day 244

ding Time
E.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
0 40W	+75 58	0-1	6.53 A3	$1\frac{1}{2}$ $1\frac{1}{2}$ $1\frac{1}{2}$ Some refused to turn at first. OK
1 07W	+70 42	0-1	6.52 A0	$1\frac{1}{2}$ $1\frac{1}{2}$ $1\frac{1}{2}$ get heavy. Clouds 19 26.5 - 19 35 (broken) little weak
0 38W	+48 42	1	6.68 F0	$1\frac{1}{2}$ $1\frac{1}{2}$ $1\frac{1}{2}$ good
1 03W	+09 18	1	7.30 K0	$1\frac{1}{2}$ $1\frac{1}{2}$ $1\frac{1}{2}$ Clouds at end of exposure. Trouble turning down. good
			7.03 G0	Closed up
				Put heat on mirror.

	MC	SC	MT _s	ST _m
Jan. 10	+39.3	-20.2	+00.4	+0.3
			reset	

Date Jan. 10-11 / 44 Monday Y Julian Day

[illegible]

218

F 23.82

ing Time
E.S.T.Hour Angle
End

Declination

Seeing

Ptg. Mag.

REMARKS

7.44 100

Hazed over before I got started

219

Date Saturday, 1944 Jan. 15-16 N Julian Day.

[illegible]

Date Sunday, January 16-17, 1944 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
9729	HD 14373	02 14.2	+29 45	I-25	E-103a-0	Set 008	-4.0	19 18	20 12 2	19 W
9730	21018	03 18.4	+04 31	"	"	"	-4.2	20 16	20 42 3	19 W
9731	23526	03 40.8	+06 30	"	"	"	-4.2	20 49	21 23 4	19 W
9732	31411	04 50.6	+05 15	"	"	"	-4.2	21 24	21 52 1	20 W
9733	32040	04 55.3	+03 28	"	"	"	-4.2	21 55	22 25 2	20 W
9734	39775	05 49.6	+00 57	"	"	"	-4.3	22 28	23 00 3	20 W
9735	45638	06 23.5	+11 05	"	"	"	-4.3	23 02	23 26 4	20 W
9736	46178	06 26.9	+11 45	"	"	"	-4.4	23 27	23 57 1	20 W
9737	52913	06 57.9	+09 17	"	"	"	-4.5	0 03	0 15 2	21 W
9738	56031	07 10.3	+08 10	"	"	"	-4.5	0 47 0 47	1 22 1 22	21 W
9739	72505	08 28.2	+13 36	"	"	"	-4.5	1 27	1 57 4	21 W
9740	74873	08 41.5	+12 28	"	"	"	-4.5	2 02	2 12 1	21 W
9741	84252	09 38.9	+19 20	"	"	"	-4.4	2 15	2 59 2	22 W
	Loss test		at the time							

Variable NE wind.
From set 23.82

Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
17 W	+29 56	0	7.60 KO	1/2 1/2 1/2 Brilliant optical light
47 W	+04 39	0	7.03 GO	1/2 1/2 1/2
03 W	+06 36	0	7.12 KO	1/2 1/2 1/2
24 W	+05 17	0-1	6.59 AO	1/2 1/2 1/2
51 W	+03 30	0-1	6.63 AO	1/2 1/2 1/2 GET STRONG following *.
33 W	+00 58	0-1	7.23 KO	1/2 1/2 1/2
25 W	+11 02	0-1	6.71 FO	1/2 1/2 1/2
54 W	+11 42	1	7.15 KO	1/2 1/2 1/2
39 W	+09 12	1	5.99 A2	2-2 Not too strong < contact spring on axis?
135 W	+08 43	1	7.32 MB	1/2 1/2 1/2 (slide not drawn) - broke; re-amp lit at back.
53 W	+13 26	1-2	7.40 KO	1/2 1/2 1/2
	+12 18	1-2	5.71 AO	2-2
43 W	+19 06	1-2	7.64 KO	1/2 1/2 1/2
				7/5-5 " 8
				Test in mirror.

223

Date Monday Jan 17-18

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
9742	HD 8949	01 23.1	+7 27	1.25	E103a-D	0.06	-3.2	6 21	6 45	47W
9743	12872	02 01.0	7 46	"	"	"	-3.1	6 50	7 30	4 065W
9744	18832	02 56.7	4 57	"	"	"	-3.1	7 36	7 58	1 24W
9745	19121	02 59.5	1 30	"	"	"	-3.0	8 02	8 22	2 47W
9746	24154	03 45.7	21 44	"	"	"	-2.9	8 26	9 00	3 40W
9747	28191	04 21.8	1 52	"	"	"	-2.9	9 05	9 27	4 31W
9748	32039	04 55.3	3 28	"	"	"	-3.0	9 34	10 00	1 50W
9749	32406	04 57.9	30 22	"	"	"	-3.1	10 05	10 29	2 56W
9750	39045	05 44.9	32 06	"	"	"	-3.2	10 34	11 10	3 50W
9751	42351	06 05.1	18 09	"	"	"	-3.0	11 15	11 39	4 59W
9752	52609	06 56.8	16 49	"	"	"	-3.2	11 43	00 03	1 32W
9753	61603	07 35.0	23 16	"	"	"	-3.3	00 09	00 33	2 23W

Focus lost

outside the frame

Tuesday - sky whitish, with brightest star sometimes showing

Thursday - high in the sky.
cloudy all day and evening. N

focus not changed

Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp	REMARKS
5:00	47 W	+7 39	3-2	7.44	KO	$1\frac{1}{2} 1\frac{1}{2} 1\frac{1}{2}$
8:30	0 65 W	7 58	3-2	8.01	Mb	$1\frac{1}{2} 1\frac{1}{2} 1\frac{1}{2}$
9:00	24 W	5 05	2	7.38	KO	$1\frac{1}{2} -1\frac{1}{2} -1\frac{1}{2}$
9:22	47 W	1 36	1-2	7.05	KO	$1\frac{1}{2} 1\frac{1}{2} 1\frac{1}{2}$ note dec. RA checks
9:40	40 W	21 51	1-2	7.60	GS	$1\frac{1}{2} 1\frac{1}{2} -1\frac{1}{2}$
9:57	31 W	1 56	2	7.37	KO	$1\frac{1}{2} -1\frac{1}{2} -1\frac{1}{2}$
10:00	30 W	3 31	2	6.95	AO	2 - 2
10:10	56 W	30 28	2	7.39	KO	$1\frac{1}{2} 1\frac{1}{2} 1\frac{1}{2}$
11:00	50 W	32 05	2	7.76	Ma	$1\frac{1}{2} 1\frac{1}{2} 1\frac{1}{2}$
11:29	59 W	18 07	2	7.44	KO	$1\frac{1}{2} 1\frac{1}{2} 1\frac{1}{2}$
00:55	32 W	16 45	2	7.19	KS	$1\frac{1}{2} 1\frac{1}{2} 1\frac{1}{2}$
00:23	23 W	23 10	2	7.36	KS	$1\frac{1}{2} 1\frac{1}{2} 1\frac{1}{2}$
					2-5	
						focus good.
	Wednesday	lost part on mirror				
		fixing, clearing up				

Saturday 1944 Jan 22 3

225

Clear all day, slowly filling in during late afternoon.

Date Sunday Jan 23-24, 1944 17

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
9754	HD 28505	04 24.6	+10 01	I-25	E-103a-D	set 208	+0.1	20 55	21 29	0 54 W
9755	34810	05 15.0	+19 43	"	"	"	+0.1	21 31	22 11	1 40 W
9756	40372	05 53.2	+01 49	"	"	"	-0.1	22 15	22 31	1 28 W
9757	42111	06 03.8	+02 31	"	"	"	-0.1	22 33	22 47	1 32 W
9758	45512	06 22.5	+10 23	"	"	"	-0.2	22 50	23 20	1 47 W
9759	50391	06 47.8	+11 07	"	"	"	-0.2	23 23	23 49	1 51 W
9760	57744	07 17.5	+23 09	"	"	"	-0.3	23 51	24 17	2 07 W
9761	63889	07 46.1	+19 35	"	"	"	-0.3	0 09	0 37	2 11 W
9762	70013	08 14.6	+04 15	"	"	"	-0.3	0 41	1 21	2 22 W
	74591	08 39.7	+06 03	"	"	"				
	74591	08 39.7	+06 03	"	"	"				

ding Time
E.S.T.Hour Angle
End

Declination

Seeing

Ptg. Mag.

REMARKS

Cloudy at sunset. Partly clearing; started to form up at 19h, but clouded again.
 Broken clouds & strong N wind 19h - 20³⁰ Form set 23.76

19.2	0 54 W	+10 08	1-0	7.33 G5	1 1/2 1 1/2 1 1/2	N-NW wind.	fine
19.1	0 45 W	-19 45	1-0	7.44 K0	1 1/2 1 1/2 1 1/2		fine
19.3	0 28 W	+01 50	0	6.20 A5	2-2	Not too strong	fine
19.2	0 22 W	+02 31	0-1	5.58 A0	2-2	GRT STRONG Br. emp. of wide double	fine
19.0	0 47 W	-10 19	1	7.19 K0	1 1/2 1 1/2 1 1/2		good
19.1	0 51 W	-11 24	1	7.08 G5	1 1/2 1 1/2 1 1/2		good
19.1	0 30 W	+23 04	1	6.02 A0	2-2	GRT STRONG (K 0.0000)	good
19.2	0 41 W	+22 26	1	7.13 K0	1 1/2 1 1/2 1 1/2	(K 0.0000) (K 0.0000)	fine
19.3	0 52 W	+24 27	1	7.07 G5	1 1/2 1 1/2 1 1/2	sky filling in fast 1 ⁰⁰	good
				6.06 A2		Not too strong - HICK	

Heat maximum

	MC	SC	HTW _s	STW _m
Jan. 24	+56.6	-19.6	+13.6	+0.0
				met

clouds thick. in early evening 228

Focus unchanged

Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp.	REMARKS
0 54 1	50 W	43 22	2	7.52 KO	$\frac{1}{2} \frac{1}{2} \frac{1}{2}$ strong
1 28 2	44 W	53 20	1-2	7.38 KO	$\frac{1}{2} \frac{1}{2} \frac{1}{2}$ strong
1 53 3	13 E		1-2	6.39 AO	2-2 strong
2 20 4	01 W	82 34	1-2	6.17 AO	2-2 ok
2 40 1	38 W	63 14	1-2	6.54 F8	2-2 strong
3 25 2	46 W	53 05	1-0	7.54 KO	$\frac{1}{2} \frac{1}{2} \frac{1}{2}$ Thicker & Thicker 7-5
					Focus good
					Wed - Telescope dripping - Put lens under alcohol (clean part of light)
					Thurs Mopped up telescope - Photo held in still wet
					and some water around - but things beginning to dry
					<u>Transfused before rising</u>
					Thurs Cloudy all night H

Frame set 23.86

Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
0 44 W	+23 29	1-2	7.28 G5	1 1/2 1 1/2 1 1/2
0 53 W	+35 45	2	7.16 G5	1 1/2 1 1/2 1 1/2 Clouds 18 ⁴⁰ ; star usually faint - often invisible thick. 7mm invisible. closed shutter & stopped clock.
				Feb. 2 12 MC +67.0 SC -19.4 MTW +25.6 STW +0.4

Date Monday Feb 2-8

Y

Julian Day

[illegible]

clear fine - night (windy) - but
no seeing.

238

focus 23.83

ing Time S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp.	REMARKS
28	6 3 W	+8 15	0 0	7.22	G5	$1\frac{1}{2} 1\frac{1}{2} 1\frac{1}{2}$	image 20" diam. little work
08	2 9 W	5 16	0	6.77	F2	$1\frac{1}{2} 1\frac{1}{2} 1\frac{1}{2}$	
100	4 9 W	21 11	0	7.34	K0	$1\frac{1}{2} 1\frac{1}{2} 1\frac{1}{2}$	image 10" f. work
146	5 1 W	51 30	0	7.18	G5	$1\frac{1}{2} 1\frac{1}{2} 1\frac{1}{2}$	little work
230	7 1 W	51 09	0	7.28	K0	$1\frac{1}{2} 1\frac{1}{2} 1\frac{1}{2}$	clouds. little work
				6.98	K2		
							focus ok

cloudy early morning, intermittent hazy, from
about 21⁰⁰ hrs.

240

Focus at 23.87

ing Time EST.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
	58 W	+09 15	1-2	7.02 KO 12 12 12	* exposed through glass Light clouds and of glass
	47 W	+09 32	1-2	7.25 KO 12 12 12	good
	40 W	+09 32	1-2	7.31 " 12 12 12	still hazy
	33 W	+09 30	2	7.32 KO 12 12 12	plates 2 light clouds - very hazy of light
				7-5	plates
					more clouds
					Two plates in black box
					lost on 1st run.
					** Plate 7789 partially on left hand
					on left wing side to. Checked plate 7789, 7790, 7791
					Adapted of plate 7789, 7790, 7791. (7789, 7790, 7791)

Date Wed. Feb 9-10

Y

Julian Day

[illegible]

Frons 2 3 8 4

Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp.	REMARKS
25 W	00 39	1	7.18	K0 $1\frac{1}{2} 1\frac{1}{2} 1\frac{1}{2}$	OK
43 W	34 48	1	7.48	K0 $1\frac{1}{2} 1\frac{1}{2} 1\frac{1}{2}$	clouds OK
10 W	01 12	1	6.76	F5 2 - 2	clouds. Little weak

	MC	SC	MTW	STW
Feb. 14	+81.6	-19.0	-02.2	+0.0

Friday, FEB 18 11-14. 5-17.5
down Lee off. - Down 5-17.5
hard but goes.

Wed afternoon - just hot on mirror N
Thu. Feb 17-18. Cloudy all evening - snow. N

243

Date Friday 1944 February 18-19 N Julian Day.....[illegible]

4000 set $23.87 \pm$

ing Time L.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
17	01 05W	+00 03	0	7.10. K0	1 1/2 1 1/2 1 1/2 Poor seeing little work Temp +10 F
6	0 27W	+05 17	0	6.59. A0	1 1/2 1 1/2 1 1/2 weak
4	1 13W	+40 24	0	7.32 K0	1 1/2 1 1/2 1 1/2 weak
2	0 30W	+20 33	0	6.71 A0	1 1/2 1 1/2 1 1/2 trouble with dome turning little work (fine lines)
2 05	1 07W	+10 00	0	7.24 K2	1 1/2 1 1/2 1 1/2 very weak
2 19	0 44W	+26 56	0	6.60 A2	1 1/2 1 1/2 1 1/2 little work Temp +04 F
- long enough at this temperature					
Beware of ice on floor!!!					

Date, Sat. Feb. 19-20

Y

Julian Day.

[illegible]

Focus a little too long

	MC	SC	MTW	STW _m
Feb. 21	+1 ^m 26.8	-18.1	+04.0	+0.0

247

Date Monday Feb 21-22

Y.

Julian Day.

[illegible]

Focus 23.75"

Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp.	REMARKS
843	40 W	57 49	1	5.79 AO 2 - 2	Full Star-7
			670 F5	$1\frac{1}{2} - 1\frac{1}{2} 1\frac{1}{2}$	Thick - just after start
					Dome Turning never failed

Date Thursday 1944 February 24-25 NJulian Day

[illegible]

slipped meter out of pocket of harness & of table.
 Note - Dec. near end of run - set south. 250

Focus set 23.71 ±

Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
0 29 W	+40 12	0-1	6.90 G5	1 1/2 1 1/2 1 1/2 Late starting - galvanometer fooled me - needle ^{fine} pinched up when last shot off.
0 35 W	+43 06	0	6.55 F2	1 1/2 1 1/2 1 1/2 good lines ^{fine}
0 45 W	+41 25	0-1	7.09 K0	1 1/2 1 1/2 1 1/2 ^{Still strong}
0 56 W	+48 59	1	7.24 K0	1 1/2 1 1/2 1 1/2 ^{dec. fine in setting}
0 27 W	+38 33	0-1	6.23 A0	1 1/2 1 1/2 1 1/2 not too strong. Trouble with down turning. ^{fine}
0 55 W	+39 07	0	7.48 K0	1 1/2 1 1/2 1 1/2 seeing getting worse ^{fine}
0 30 W	+05 00	0	7.65 A0	1 1/2 1 1/2 1 1/2 ^{Still strong}

Heat on mirror

Friday - mostly hazy - uncertain.

Saturday - rain N

Sunday - cloudy all night H

	MC	SC	SW	HT	ST
Feb 28	+138.4	-17.6	+17.0	+21.4	+0.1

Date *Tuesday, February 29-March 1, 1944* H Julian Day

[illegible]

Cloudy all day with light snow flurries. Clearing slowly from sunset on. Partly cloudy at dark, and strong NW wind. 252

Sunset 23.82

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
				5.30 AS6	WRONG STAR
19 52	0 53 W	+33 56	0	6.66 AS	1 1/2 1 1/2 1 1/2 Fuzzy lines HD 34578
20 55	1 23 W	+33 55	0-1	7.73 Ma	1 1/2 1 1/2 1 1/2 ← * let down from downtown
21 28	1 03 W	+12 43	0-1	6.71 F0	1 1/2 1 1/2 1 1/2
22 17	0 56 W	+13 36	0-1-0	7.45 Ma	1 1/2 1 1/2 1 1/2 seeing blowing up towards end.
22 51	0 50 W	+35 13	1	7.21 K0	1 1/2 1 1/2 1 1/2
23 22	0 18 W	+05 53	1-2	6.06 A2	1 1/2 1 1/2 1 1/2 Not too strong
23 51	1 12 W	+05 51	1-0	7.31 K0	1 1/2 1 1/2 1 1/2 sitting 5
				8 ⁵ -6 ⁵	sitting 10
					Heat not on - mirror! forecast fair - cold
					down to 16°F.
					During 9823 clock started dragging badly.
					Ailed RA sitting diff'l, and drives O.K.

Date Wed Mar 1-2

Y.

Julian Day.

[illegible]

Focus 23.87

Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp	REMARKS
					Strong wind
19 19	25 W	33 56	0	6.66 A5	$1\frac{1}{2} 1\frac{1}{2} 1\frac{1}{2}$
20 10	40 W	+3 14	0-1	7.55 K0	$1\frac{1}{2} 1\frac{1}{2} 1\frac{1}{2}$
20 40	37 W	+0 52	0	6.51 A0	$1\frac{1}{2} 1\frac{1}{2} 1\frac{1}{2}$ get strong.
21 12	37 W	+3 39	0-1	7.02 K0	$1\frac{1}{2} 1\frac{1}{2} 1\frac{1}{2}$
21 37	42 W	+2 48	1	6.84 G5	$1\frac{1}{2} 1\frac{1}{2} 1\frac{1}{2}$
22 1	47 W	+4 28	1-0	7.07 G0	$1\frac{1}{2} 1\frac{1}{2} 1\frac{1}{2}$
23 06	50 W	+8 13	0	7.49 K0	$1\frac{1}{2} 1\frac{1}{2} 1\frac{1}{2}$ ← Some turning handle
23 51	20 W	+4 26	0	7.14 G5	$1\frac{1}{2} 1\frac{1}{2} 1\frac{1}{2}$ wind going down, seeing worse.
				7-5	
					7-5 with shot
					Heat not on mirror - down temp 10°F
					Tricking - faint heat on mirror
1944	Thu. Mar 2-3		Cloudy	N	
	Sat. Mar. 4-5		Clearing in early evening.		Snow on shutter, so did not attempt to expose up. etc.

Date Sunday, March 5-6, 1944 H Julian Day[illegible]

Light NE wind.

Frame 2381

Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
1 21 W	+59 23	0	6.61 A3	1 1/2 1 1/2 1 1/2 Not too strong. Seeing very bad. good
1 04 W	+68 28	0	7.40 K0	1 1/2 1 1/2 1 1/2 fine
0 49 W	+71 49	0	6.85 G5	1 1/2 1 1/2 1 1/2 fine
0 58 W	+70 52	0	6.83 K0	1 1/2 1 1/2 1 1/2 good
0 51 W	+62 55	0	6.49 A5	1 1/2 1 1/2 1 1/2 Some faint. Light clouds. 24
1 02 W	+58 23	0	7.05 K0	1 1/2 1 1/2 1 1/2 fine
1 27 W	+69 29	0-1	7.44 K0	1 1/2 1 1/2 1 1/2 Light clouds becoming general.
1 15 W	+51 48	0-1	6.93 G0	1 1/2 1 1/2 1 1/2 Setting 2 Light clouds 7-5" " 8
Increasing clouds; put heat on mirror. Temp 12°F				
MC SC MTW STW WBEN Mar. 6 +1^m 48^s -15.7 +30.0 +0.3				

257

Date Tuesday, March 7-8, 1944 H

Julian Day

[illegible]

Partly cloudy all day, with snow flurries.
Clouds + snow flurries at dark, then clearing

258

Focus set 23.77 (v6).

Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
0 55 W	+73 46	0-1	6.56 F2	1 1/2 1 1/2 1 1/2 SW wind. fine
1 35 W	+70 49	0-1	7.61 K0	1 1/2 1 1/2 1 1/2 Clouds 20 ⁵⁰ -20 ⁵⁷ ; 21 ²⁵ -21 ³⁵ slightly worse
2 56 W	+56 47	1-0	6.90 K0	1 1/2 1 1/2 1 1/2 Very windy ← DOME TURNING fine
3 21 W	+53 08	1	7.54 K0	1 1/2 1 1/2 1 1/2 fine
4 58 W	+55 59	1	6.80 F2	1 1/2 1 1/2 1 1/2 } setting 2 Clouds latter part of afternoon 7 ⁵ -5 ⁵ } ← some fine
1 00 W	+47 39	1-0	7.15 K0	1 1/2 1 1/2 1 1/2 Thin clouds 23 ⁵⁸ good
				High wind & increasing clouds. Thick. Heat on mirror.

259

Date Wed Mar 8-9 Y Julian Day 173[illegible]

260

Focus 23.82⁺iding Time
E.S.T.

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

51 W	48 59	0	7.22 GS	$\frac{1}{2} + \frac{1}{2} + \frac{1}{2}$	Roll, slide not drawn
			5.68 AO		

261

Date Thursday 1944 Mar 9-10 N Julian Day 194

[illegible]

turned down from downtown almost every time.

263

Date Friday Mar 10-11 / 44 Y Julian Day

Hour Angle
End

Seeing

Comp

REMARKS

42 W

4901

0-1

722

65

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

haze

21

56w

47 54

0-1

5.68

A0

2 - 2

Some Bad

little -

1 31 W

4 9 5 4

0.

685

65

$$1\frac{1}{5} \quad 1\frac{1}{2} \quad 1\frac{1}{2}$$

hoze

tail -f

201W

49 53

5.98

Ad

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

hoze bad.

make

haze getting too thick. star nearly gone.

265

Date Saturday 1944 March 11-12 N Julian Day[illegible]

266

Hazy clouds all day. Clearing at sunset.
Haze around horizon.

Focus set 23 73 ±

ing Time
E.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS	dome temp. 36°F
0 51 W	+40 58	2	5.65 A3	1½ 1½ 1½ get strong	good
0 55 W	+66 06	2-3	7.59 K0	1½ 1½ 1½ seeing getting variable	slightly less
1 17 W	+63 27	2-3	7.49 K0	1½ 1½ 1½ temp. rising during exposure.	good
0 52 W	+71 54	2-1	7.45 K0	1½ 1½ 1½ difficult to allow for	slightly less
0 51 W	+38 27	2	7.07 K5	1½ 1½ 1½ haze because of horizon.	good
1 04 W	+35 34	2	7.27 K0	1½ 1½ 1½	slightly less
1 22 W	+38 54	2	7.03 G5	1½ 1½ 1½ seeing variable	good
dome turned some times upstairs.					
clouds rapidly forming.					
Sunday - cleaned contacts of dome					
burning relay - Y.					
Plates not developed					
WBEN Mar. 13					
MC +1 ^m 57					
SC -14 ^s					
HTW -17.2					
STW -0.1					
adv 1m rest					

267

Date Monday Mar. 13-14 Y Julian Day

[illegible]

ling Time
E.S.T.

Date Saturday 1944 Mar. 18-19 N Julian Day.

[illegible]

strong north wind. Light clouds at horizon.
focus 23.81 t

ing Time
I.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
	+02 29	0	5.58 Ao	1 1/2 1 1/2 1 1/2 get strong  42256 - E seeing bad
1 22W	+03 07	0	7.44 Ko	1 1/2 1 1/2 1 1/2 42 - generator off - done turning relay stuck 48 - star back on aurora
1 22W	+04 38	0	7.32 Ko	1 1/2 1 1/2 1 1/2 tried to refocus. - turned down from down stream
1 08W	+02 18	0	6.91 Ko	1 1/2 1 1/2 1 1/2
1 35W	+10 01	0	6.58 Ao	1 1/2 1 1/2 1 1/2 setting 5 7.5 8 heat not on mirror
				at 10:00 AM Bore on
				51 ob - faint auroral band, E to W more squaring arcs and streamers in N
				MC SC MT_s ST_m Mar. 20 +2 05.0 -13.6 +00.2 +0.2

Date Mar 20-21 Monday

Y

Julian Day

[illegible]

Focus unchanged.

ing Time I.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp	REMARKS
9 38	1 11 W	+41 52	2	7.32	K0	$\frac{1}{2} \frac{1}{2} \frac{1}{2}$	stony
0 0	1 42 W	41 03	2	7.42	K0	$\frac{1}{2} \frac{1}{2} \frac{1}{2}$	stony
0 50	1 09 W	42 45	2	7.57	K0	$\frac{1}{2} - \frac{1}{2} \frac{1}{2}$	Temp rising in dome. little stony
1 47	1 34 W	+3 25	2-1	7.94	Ma	$\frac{1}{2} \frac{1}{2} \frac{1}{2}$	7
2 31	1 03 W	+1 40	2-1	7.76	Ma	$\frac{1}{2} \frac{1}{2} \frac{1}{2}$	hazy at times ok
3 5	1 02 W	+6 15	1-2	7.62	Ma	$\frac{1}{2} \cdot \frac{1}{2} \frac{1}{2}$	Heat on 1 st time 23° little stony
	57 W	+00 04	2	7.77	K5	$\frac{1}{2} \frac{1}{2} \frac{1}{2}$	fine
						7-5	
							Focus good

Date Tuesday March 21-22, 1944 H Julian Day[illegible]

N - NW wind.

Focus set 23.75

Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
1 15 W	+02 42	1-0	7.74 Ma	1 1/2 1 1/2 1 1/2 Seeing blowing up badly.
1 13 W	+15 26	0	6.89 KO	1 1/2 1 1/2 1 1/2 ← some
1 12 W	+00 20	0	7.14 G5	1 1/2 1 1/2 1 1/2
1 12 W	+02 56	0-1	7.48 KO	1 1/2 1 1/2 1 1/2 ← some
1 42 W	+72 28	0-1	6.24 F5	1 1/2 1 1/2 1 1/2 good lines decreasing wind. trif
1 09 W	+61 23	0-1	7.42 KO	1 1/2 1 1/2 1 1/2
1 47 W	+52 11	0-1	7.34 KO	1 1/2 1 1/2 1 1/2 } setting 2 7:55 } 8 focus on
0 51 W	+48 13	1	7.16 G5	1 1/2 1 1/2 1 1/2
0 20 W	+42 50	1	6.26 F0	2-2 fuzzy lines

Faintly bright across in low N cell
light.

Not met in mirror!

No trouble with thermistor.

Thurs Mar 23-24 Snow and rain. N

Date Friday Mar 24-25

Y

Julian Day

[illegible]

Focus 23.68

Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp	REMARKS
1 05W	02 44	1	7.42	K0	$1\frac{1}{2} 1\frac{1}{2} 1\frac{1}{2}$	
1 11W	37 31	1-2	7.32	K0	$1\frac{1}{2} 1\frac{1}{2} 1\frac{1}{2}$	little strong
1 11W	22 31	1-2	7.34	K0	$1\frac{1}{2} 1\frac{1}{2} 1\frac{1}{2}$	" "
1 00W	53 45	1-2	6.64	F0	2 - 2	" "
33 W	54 30	1-2	5.74	A2	2 - 2	get strong. fine
1 01W	64 10	1-2	7.53	K2	$1\frac{1}{2} 1\frac{1}{2} 1\frac{1}{2}$	fine
59W	65 50	1-2	6.57	F0	2 - 2	little strong
1 18W	60 15	2-	8.0?	Ma	$1\frac{1}{2} 1\frac{1}{2} 1\frac{1}{2}$	fine
46W	67 24	1-2	7.31	K0	$1\frac{1}{2} 1\frac{1}{2} 1\frac{1}{2}$	little strong
					7-5	focus slightly short.
						Mar. 27 12 MC +2 13.7 SC -12.3 SW +00.7 MT_s +03.9 ST_m +0.3
						wad 1 stopped Mar 28 set by 4.11 MT_s -15.5 ST_m -0.6

277

Date Tuesday, March 28-29, 1944 H Julian Day

[illegible]

ling Time
E.S.T.

ing Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
1	13 W	+08 27	0-1	5.90 A5	1 1/2 1 1/2 1 1/2 Get strong Very hazy; object hard to find
1	31 W	+13 54	1	7.50 K0	1 1/2 1 1/2 1 1/2 Stage - thick at first but thinning
0	56 W	+30 49	0-1	6.60 K0	1 1/2 1 1/2 1 1/2 Stage
1	25 W	+74 16	1	7.32 G5	1 1/2 1 1/2 1 1/2 Stage; thinning
1	31 W	+47 03	1-0	7.48 K0	1 1/2 1 1/2 1 1/2
1	13 W	+49 06		7.20 G5	1 1/2 1 1/2 1 1/2 } better 2 7 ^s 5 ^s } Light clouds increasing from south.
					Some turning worst ever; almost all moving down from below. Heat ...

279

Date Thursday, 1946 March 30-31 N Julian Day

[illegible]

Date Sunday, April 2-3, 1944 H Julian Day 1944084[illegible]

282

Partly cloudy all day: clearing after sunset.
Tide not changed.

ing Time L.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
2 37	37 W	+17 48	1	7.55 Ma	$1\frac{1}{2} 1\frac{1}{2} 1\frac{1}{2}$ Strong NW wind. Light cloud $19^{45} \rightarrow 20^{05}$
2 37	22 W	+23 45	1	7.42 KO	$1\frac{1}{2} 1\frac{1}{2} 1\frac{1}{2}$ Light scattered clouds.
37	34 W	+13 25	1	7.40 KO	$1\frac{1}{2} 1\frac{1}{2} 1\frac{1}{2}$ Becoming out of focus & focussing not working.
				7.61 K5	
				7.60 KO	spent an hour trying to get focussing belt + emergency belt working. N.B. & focus too far out to keep on observing (11¹⁵ sid).
					Home timing worked perfectly.
					MC SC MT ST Apr 3 +1 56.2 -11.4 +18.3 -0.0^m

Date Tuesday, April 4-5, 1944 H

Julian Day.

[illegible]

Put on new focussing belt.
Strong N winds.
Focus not changed.

284

ng Time L.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
57	22 W	+09 14	1-0	7.02 K0	1 1/2 1 1/2 1 1/2 OK
42	37 W	+13 00	1	7.50 K0	1 1/2 1 1/2 1 1/2 2 Wind shaking telescope. good.
19	32 W	+35 13	1	7.21 K0	1 1/2 1 1/2 1 1/2 Image small but very erect. Bad wind. fine
55	31 W	+17 22	1-2	7.29 K0	1 1/2 1 1/2 1 1/2 "
25	42 W	+17 07	1-2	7.64 K0	1 1/2 1 1/2 1 1/2 Light clouds 22-47 star barely visible mud of time
31	1 20 W	+25 47	2	7.40 K0	1 1/2 1 1/2 1 1/2 Thinning out. Hazy.
1	0 15 E	+37 44	2-3	7.21 K2	1 1/2 1 1/2 1 1/2 Hazy
6	0 3 E	+42 25	2-3	7.15 K0	1 1/2 1 1/2 1 1/2 } setting 2. Thickening rapidly 30- 7 ⁵ 5 ⁵ } opaque 49 fine
					Done & focussing motion OK.

285

Date Thursday 1944 April 6-7 N Julian Day 194

[illegible]

287

Date January 10, 1962 Julian Day 320[illegible]

289

Date Monday Apr 10-11

Y

Julian Day.

[illegible]

Focus unchanged

Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp	REMARKS
24 W	+01 40	1	7.76 Ma	$1\frac{1}{2} 1\frac{1}{2} 1\frac{1}{2}$	little mark
12 W	31 10	1-0	7.0? Mc	$1\frac{1}{2} 1\frac{1}{2} 1\frac{1}{2}$	ok
57 W	+2. 38	0	7.43 KO	$1\frac{1}{2} 1\frac{1}{2} 1\frac{1}{2}$	little mark
48 W	+46 59	0	7.49 KO	$1\frac{1}{2} 1\frac{1}{2} 1\frac{1}{2}$	little mark
24 W	26 13	0	6.77 A3	$1\frac{1}{2} 1\frac{1}{2} 1\frac{1}{2}$	New Emulsion holders 2,3,4 also
Heat <u>not</u> on mirror					

291

Date Wed. Apr 12-13

Y

Julian Day

[illegible]

Focus 23-70

[illegible]

Date.

Julian Day

[illegible]

Ag Time
S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
1 24 W	+32 53	0-1	7.27 Ko	$\frac{1}{2}$ $\frac{1}{2}$ $\frac{1}{2}$ seeing variable. ok
1 08 W	+02 59	1	5.98 Ao	$\frac{1}{2}$ $\frac{1}{2}$ $\frac{1}{2}$ not too strong. fine
1 00 W	+10 21	1	5.71 Ao	$\frac{1}{2}$ $\frac{1}{2}$ $\frac{1}{2}$ good
1 26 V	+05 52	1-2	7.31 Ko	$\frac{1}{2}$ $\frac{1}{2}$ $\frac{1}{2}$ strong
			7.40 Ko	$\frac{1}{2}$ $\frac{1}{2}$ set 5 ^{quite} ^{usable}
1 47 W	+61 23	1-2	7.42 Ko	$\frac{1}{2}$ $\frac{1}{2}$ $\frac{1}{2}$ set 8 ^{very strong}
2 53 W	+26 37	1-2	7.49 Ko	$\frac{1}{2}$ $\frac{1}{2}$ $\frac{1}{2}$ ^{very strong}
2 18 W	+07 54	1	7.34 K 5	$\frac{1}{2}$ $\frac{1}{2}$ $\frac{1}{2}$ NEW ^{good}
			7-5	(- double 4, 1, 2, also) 7
				focus good
				Friday April 14-15.
				Clouding over during late afternoon. N

295

Date Sunday, April 16-17, 1944 H Julian Day.....[illegible]

Cloudy all day. Gradually thinning with clouds & haze after dark.

296

Fine 23.70 (not changed.)

ig Time S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
40	0 36 W	+46 59	1	7.49 KO	1 1/2 1 1/2 1 1/2 Very windy (NW). Image instead of clouds. good
05	0 13 E	+12 15	0-1	6.13 A3	1 1/2 1 1/2 1 1/2 GET very strong. Light clouds. good
41	0 38 W	+33 41	1-2	7.37 KO	1 1/2 1 1/2 1 1/2 good
19	0 32 W	+19 03	1-2	7.36 G5	1 1/2 1 1/2 1 1/2 fine
55	0 46 W	+10 29	1-2	7.46 KO	1 1/2 1 1/2 1 1/2 good
23	0 46 W	+11 03	1	7.14 G5	1 1/2 1 1/2 1 1/2 Light clouds. good

all these plates new emulsion. Also holds 2. This
finishes new box.

	MC	SC	MTW _s	STW _m
Apr. 17	+2 07.0	-11.6	+19.0	-0.1

297

Date Monday April 17-18

-Y

Julian Day

[illegible]

← Dome

299

18-19

Date Tuesday April 19-20, 1944 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 Ang End
9964	HD 72561	08 28.5	+05 06	I-25	E-103a O	Set 008	10.8	19 38	20 04	1
9965	76494	08 51.4	+04 37	"	"	"	10.7	20 06	20 36	2
9966	78712	09 04.6	+31 23	"	"	"	10.9	20 38	21 16	3
9967	82870	09 29.1	+40 24	"	"	"	10.8	21 19	21 57	4
9968	99967	11 25.0	+47 12	"	"	"	10.8	22 00	22 40	1
9969	101980	11 39.1	+25 47	"	"	"	10.7	22 42	23 18	2
9970	107274	12 14.9	+49 32	"	"	"	10.7	23 21	23 39	3
9971	111591	12 45.3	+23 24	"	"	"	10.7	23 43	0 23	4
9972	{ 117404	13 25.0	+07 43	"	"	"	10.6	0 26	1 02	1
	{ focus test - outside the box							1		
9973	126271	14 19.4	+08 33	"	"	"	10.6	1 06	1 32	2

Focus set 23.60

g Time S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS	
04 1	04 W	+04 58	1	7.13 K0	1 1/2 1 1/2 1 1/2	N wind; smoke from grass fire. fine
36 2	13 W	+04 26	1-0	7.14 G5	1 1/2 1 1/2 1 1/2	good
16 3	39 W	+31 13	1	^{6.8} -8.3 MC	1 1/2 1 1/2 1 1/2	5.3-6.8 vis. Fairly bright 5.8? fine
57 4	56 W	+40 13	1-0	7.2 F2	1 1/2 1 1/2 1 1/2	Fuzzy lines Bright central star of 3 S N good
2 40	0 48 W	+47 00	1-2	7.49 K0	1 1/2 1 1/2 1 1/2	Binary good
18 2	08 W	+25 32	1-2	7.37 K5	1 1/2 1 1/2 1 1/2	OK
3 31	0 53 W	+49 18	1-2	6.63 K2	1 1/2 1 1/2 1 1/2	2 Wind; fine
2 23	1 08 W	+23 10	1	7.46 K0	1 1/2 1 1/2 1 1/2	fine
1 02	1 07 W	+07 28	1-2	7.47 K5	1 1/2 1 1/2 1 1/2	Setting 2? fine
					7 ^s -5 ^s " 8 }	focus OK
1 32	0 42 W	+08 20	2-1	7.29 K2	1 1/2 1 1/2 1 1/2	fine

Date Wedn. April 19-20 / 44

Y

Julian Day

[illegible]

Focus $23.58 \pm$

[illegible]

303

Date _____ Julian Day _____

[illegible]

304

Ending Time
E.S.T.

305

Last plate for report 1942-43, 8939

Inside displaced to violet means focus
should be made shorter.