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Focus: centre to violet, shorten the focus (increase micrometer reading)

lead

2

13

How Angle
End

5

Date Sunday, May 14-15, 1900

Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	How Long Exp.
14324	wy Gem. HD 42474	6 ^h 5 ^m 8	+23° 14'	I-12"	E103a-o	1008	+1.2	19 ^h 05 ^m	20 ^h 25 ^m , 3	
14325	HD 64349	8 ^h 11 ^m 5	+27° 43'	"	"	"	"	20 ^h 40 ^m	22 ^h 25 ^m , 6	
14326	HD 83998	8 ^h 31 ^m 5	+28° 13'	"	"	"	"	22 ^h 31 ^m	23 ^h 10 ^m , 1	
14327	HD 94306	10 ^h 2 ^m 5	+28° 10'	"	"	"	"	23 ^h 44 ^m	00 11, 7	
14328	" 100547	11 320	28 19	"	"	"	+1.1	00 18	01 28, 2	
14329	" 114173	12 438	29 55	"	"	"	+1.1	01 45	03 15, 9	
14330	" 130215	14 418	27 56	"	"	"	+1.1	03 19	04 39, 1	
	Plate Lost									
						078				

Hour Angle End E.S.T.	Declination	Seeing	Ptg. Mag.	REMARKS
1 ^m 40 ^m W	+23° 10'	1	Var. M3op	1-1-1
1 25 ^m W	+27° 33'	1	8.49 K ₀	1-1-1 AG 25 5 21 ^h 00 ^m Clouds ^{21^h 30^m}
0 50 ^m W	+27° 58'	1	8.05 K ₀	1-1-1 AG 25 (⊙) ^{sub cap}
1-01 W	+24° 58'	1	8.14 K ₀	1-1-1 AG 25 23 ^h 3 ^m <u>Blue Tow Toward drift</u>
1 17 W	28 03	1	8.61 K ₀	1-1-1 " " <u>up + ...</u>
1 23 W	29 30	1	8.77 G ₀	1-1-1 " " <u>next ...</u>
1 30 W	27 43	1	8.88 K ₀	1-1-1 " " <u>longer ...</u>
				<u>for ...</u>
				Auroral emission lines on last <u>four</u> plates.
Tues, Mar 23-4. - Partly cloudy at sunset, filling in slowly; o.g. overcast by 21.30. Wm.				

Date Wed March 24-25, 1948 HA-W Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.
14331	HD 93215	10 40.7	+26 18	I ¹² 25	E103aO	008	+7.1	23 02	02 54 2
14332	120728	14 14.2	26 31	"	"	"	+7.1	03 28	04 06 3
14333	144287	16 00.0	25 30	"	"	"	+7.1	04 11	05 43 4
	<i>Focus lost</i>								

How long
Exp

Overcast till after 2200.

8

Form 12.893.

ading Time
E.S.T.

Hour Angle
End

Declination

Seeing

Ptg. Mag.

REMARKS

2

3 34W

26 02

0

8.28 G5

1-1-1

Clouds.

haze

400

1 41W

26 17

0

7.21 K0

1-1-1

540

1 34W

35 24

0

7.48 G0

1-

P.T. 8.

1/4

4 P.M. LOADED + 28

H. ON M.

Focus 12.894

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
0 51	0 ⁿ 55	+27° 25'	0	8.14 KO 1-1-1	AG25
1 12	1 ⁿ 12	+28° 26'	0	8.70 KO 1-1-1	AG25
3 51	1 ⁿ 53	+29° 07'	0	8.95 G5 1-1-1	AG25 ^{Pole} ← possibly not marked w. plate no.
1 57	2 05 W	25 37	0	8.93 K2 1-1-1	AG25
2 11	1 36 W	25 32	0	8.71 G0 1-1-1	" " Hazy, light clouds
				6/4	

Focus 12.893

12

ding Time E.S.T. P	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
0382	4128	26 15	0	8.28 G ₀	1-1-1
2123	4127	28 32	0	8.64 G ₀	1-1-1
354	153W	29 45	0	8.72 G ₅	1-1-1
131	134W	28 59	0-1	8.84 G ₀	1-1-1
112	119W	24 48	0-1	8.78 K ₀	1-1-1 Hazy clouds, stars gone at 2311 5/4
					all plates a little weak
					Mon. March 29 Rain squalls

Focus 12.839

Cloudy 3.3 ins
Mr. Day, R.K. ...
class; slight ...
2/20

14

Ending Time
E.S.T.

Hour Angle
End

Declination

Seeing

Ptg. Mag.

REMARKS

Very weak

1^m 27

+28° 13'

0

7.95 GO

1-1-1

AG25

Thick haze

22:45
getting better

ing Time
E.S.T.Hour Angle
End

Declination

Seeing

Ptg. Mag.

REMARKS

01^m 18^m W

+27° 09'

0

8.68, K_v

1-1-1

AG 25

Good

0^h 50^m W

+25° 53'

"

8.07, K_v

1-1-1

"

Fair

0^h 50^m W

+24° 23'

"

8.16, K₀

1-1-1

"

1.5 stars

8 49 W

+27° 75'

1

8.60, G_v

1-1-1

"

" " " " " "

to 2 stars

2 45 W

+24 43

0

7.80 G_v

1-1-1

"

" " " gusty winds. N.W.

2 stars

O.T.B.

2/4

" " " " " "

43 Vectors. Showed by OT
with 74" and 5"

Focus 12.893

18

ding Time
E.S.T.

Hour Angle
End

Declination

Seeing

Ptg. Mag.

REMARKS

201

W106

27 45

1

8.15 G0

1-1-1

Something across slit. Brushed it off after exposure

202

201W

26 10

1

8.89 G5

1-1-1

Some clouds toward end of slit
Clouds coming over while setting
on next star. Sky thickening over.
Closed at 2.30 sky thick.

Sidereal Watch Hands stopped (won't move) 20
 ∴ Set M.T. Hands to S.T.

ding Time
E.S.T.

20,3
GONE #
11

Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
1 ^h 53 ^m W	+29° 22'	0	8.45 G ₀	1-1-1 AG 25, ^{→ 22^h 30^m} Thin clear ^{Thin clear} haze, appear more fainter ^{in H.D. Col.}
1 15 W	+29° 23'	"	8.63 G ₁	1-1-1 AG 25 HAZE; THICKENING
	O.T.B.			6/4
				4 P.H. Loaded + 16 closed c215
				Mon April 5-6 Cloudy occ. rain 1

Date Tuesday, April 6-7, 1948 Wm - 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
14353	HD 67544	08 ^h 03 ^m .4	+25°05'	T-12	E102a-0	SFF 000	+14.0	19 37	20 27	1
14354	HD 93632	09 ^h 34 ^m .8	+26°28'	"	"	"	+14.0	20 42	22 12	2
14355	HD 95185	10 ^h 54 ^m .4	+25°50'	"	"	"	+13.9	22 29	00 23	3
14356	" " 115929	13 15.2	28 38	"	"	"	+13.9	00 29	01 25	4
14357	" " 132304	14 53.3	25 05	"	"	"	+13.9	02 04	03 51	1
	Focus lost					O.T.B.				

Focus @ 12.894

22

ing Time
E.S.T.Hour Angle
End

Declination

Seeing

Ptg. Mag.

REMARKS

0 7 1^w 14 +24° 59' 0 7.98 G5 1-1-1 AG25

Opening despite -0.3

2 2 1^w 23 +26° 14' 0 8.72 K0 1-1-1 AG25

clearing -

2 3 2 00 W +25° 34' 0 8.75 G5 1-1-1 AG25

1 25 W 28 21 0 8.42 G0 1-1-1 " "

1 22 W 24 52 0 8.44 K2 1-1-1 " "

Clouds haze towards end

6/4

focus stable to -0.3

Edges of prisms over slit touched with
paint to correct arc spectrum
that appears close to star spectrum

Apr. 7 MC SC MTW STW
 +1.072 -1.025 -15.3 +0.3

ding Time
E.S.T.Hour Angle
End

Declination

Seeing

Ptg. Mag.

REMARKS

2 10 W

28 47

0

8.42 K₀

1-1-1 A.G. 25

1.1.1.1

2 12 W

24 38

0

8.15 K₀

1-1-1

" "

1.1.1.1

2 14 W

25 19

0

8.79 G₅

1-1-1

" "

1.1.1.1

1 29 W

28 41

0

7.73 G₅

1-1-1

1.1.1.1

1 33 W

27 07

0

8.42 M₀

1-1-1

1.1.1.1

O.T.B.

6/4

focus center slightly to right

2 P.H. LOADED + 12

Sat, April 10-11. Abt. 35 visitors shown

C. b. x Leo 74 & 8.16 Tel. h.

H. ON M.

F2H, RIM, REV. Closed in 2.519. ^{Wm}

	MC	SC	HTW	STW
Apr. 12	+1 ^m 09.2	-1 ^m 03.3	+22.2	-0.3

Apr. 16	+1 09.2	-1 03.4	+28.2	-0.2
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	^{Wm} R.T.W.	2 M.P. visited Ch.
Tue, April 13-14	Solid Overcast	

Thurs, April 15-16	~0.5 overcast at sunset, filling in until solid ~ 2100. Wm
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Try focus 12,900 ✓

26

Cloudy till 21.45. Very windy. Found much water in the tube - swabbed it out.

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
3 54	W 1 06	26 47.	0	7.88 G ₅ 1-1-1	Wind decreasing l weak
1 17	W 1 36	26 47	0	8.36 K ₀ 1-1-1	Reset focus to 12,900 l weak
2 44	1 46 W	27 38	0	7.83 K ₅ 1-1-1	Built turned out. Put new one in, but not proper kind. good
3 46	1 08 W	25 23	0	7.48 G ₀ 1-1-1	fair
5 00	1 22 W	28 09	0	7.56 K ₀ 1-1-1	Good
	O.T.B.			6/4	fair OK
					1 P.H. LOADED
					BOX PLATES NEEDED

about 45 visitors. Hcl showed h with 74" 28
 L showed (with 5".

ing Time
 E.S.T.

Hour Angle
 End

Declination

Seeing

Ptg. Mag.

REMARKS

3 41 -

W 2 36

29 21

0

8.42 G₀

1-1-1

light clouds most of time.
 Clouds up a/c increasing cloudiness
 and unfavourable forecast.

Apr. 19

MC +1^m 10.0 SC -1^m 02.9

MTW -00.6 STW -0.7

Mon April 19 Cloudy with rain. L

Date Wed. Apr 21-22, Yu - W. Julian Day.....

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.
14369	HD 85976	9 ^h 50. ^m 4	+26° 28'	I-12"	E103 _{A-O}	.008	+12.0	19 ^h 47 ^m	21 ^h 10 ^m 1
14370	HD 97658	11 ^h 9. ^m 2	+26° 16'	"	"	"	"	21 ^h 15 ^m	22 ^h 40 ^m 2
14371	HD 113094	12 ^h 56. ^m 2	+24° 51'	"	"	"	"	22 ^h 45 ^m	07 ^h 13 ^m 3
14372	H.D. 135460	14 59.5	26 25	"	"	"	12.1	01 18	02 34 4
14373	H.D. 145458	16 06.0	25 45	"	"	"	12.1	02 37	03 51 1
14374	H.D. 164898	17 58.3	45 21	"	"	"	12.1	03 56	05 18 2

Focus Test

Thurs. Apr 23 - 1st thin cloud - 1st. Lunar - etc. 9:00 - 10:00. W.

Sat. April 24-25, 1948 Hd. Rain. no visitors

ing Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
1 ^h 10 ^m	1 ^h 00 ^m W	+26° 15'	0.2	8.20 K ₀	1-1-1 AG 25 good
1 ^h 10 ^m	1 ^h 10 ^m W	+25° 58'	0	8.35 K ₀	1-1-1 " " good
1 ^h 13 ^m	157 W	+24° 35'	0	8.58 K ₀	1-1-1 " " Beautiful <i>display</i> in <i>fine</i>
2.34	116 W.	26 14	0	7.72 G ₀	1-1-1 " " Full <i>mag. disp. - extending</i>
3.51	127 W	25 37	0	7.88 K ₀	1-1-1 " " <i>North of Jernett</i> fine
5.48	032 W	45 21	0	7.44 A ₀	1-1-1 BINARY 1.2 mag
	O.T.B.			9/4	<i>center L. visible</i>

2 P.H. LOADED + 12

HEAT NOT ON MIRROR

	MC	SC	MTW	STW
Apr. 22	+70.2	-62.7	+04.2	+0.1

Date Sun. Apr 25-26, YU-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
14375	HA. 90346	10 ^h 20 ^m 7	+25° 14'	I-12	E103 _{2.0}	.008	+16.2	19 ^h 55 ^m	21 ^h 25 ^m 3	22 ^m
14376	HA 104784	11 ^h 58 ^m 9	+25° 30'	"	"	"	"	21 ^h 30 ^m	23 ^h 00 ^m 10	56 ^m
14377	HA 117062	13 ^h 22 ^m 7	-20° 50'	"	"	"	"	23 ^h 06 ^m	01 00 1	48 ^m
14378	" 135145	15 08.5	28 19	"	"	"	+16.2	01 21	00 21 2	50 ^m
14379	AG. 8066	17 08.3	29 39	"	"	"	+16.2	02 56	00 36 3	56 ^m
	Green Point					O.T.P.				

Try focus 12 910

32

Focus 12.910

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
1 ^h 25 ^m	1 ^h 02 ^m W	+25° 00'	0	8.14 K ₃	1-1-1 AG 25
1 ^h 30 ^m	0 ^h 56 ^m W	+25° 14'	0	8.18 G ₀	1-1-1 "
1 ^h 35 ^m	1 45 W	+24° 34'	0	8.57 G ₅	1-1-1 " haze
1 ^h 40 ^m	1 39 W	28 06	0-1	8.42 G ₅	1-1-1 "  plate fogged
1 ^h 45 ^m	1 25 W	29 35	0-1	8.70 R ₀	1-1-1 "  plate fogged
					6/4

Focus set at 12.920

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS	
22 10 4	1 39 W	29 22	0-1	8.42 Go	1-1-1	A.G. 25
00 55 1	2 04 W	25 43	0-1	8.54 Ke	1-1-1	" " clouds 23.25 - 00.20 <i>fair</i>
						6/4 <i>contact violet</i> more clouds at 00.35 <i>good</i>
						<div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;"> $\overbrace{\hspace{10em}}$ Apr. 27 $\overset{MC}{+69.8}$ $\overset{SC}{-64.5}$ $\overset{MTW}{+11.0}$ $\overset{STW}{+0.4}$ </div> </div>

Date Friday, Apr 30 - May 1 YU - W Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
14382	HD 90443	10 ^h 21. ^m 4	+25° 26'	I-12 $\frac{1}{2}$	E103 _a -0	.008	+11.5	19 ^h 55 ^m	21 ^h 0 ^m , 2	37 ^m
14383	HD 116882 ^{w virg.}	13 ^h 20. ^m 9	-2° 52'	"	"	"	"	21 ^h 15 ^m	23 ^h 45 ^m , 3	38 ^m
14384	HD 126991	14 ^h 23. ^m 8	+24° 59'	"	"	"	"	23 ^h 50 ^m	01 00 4	33 ^m
14385	139007	15 30.5	25 20	"	"	"	11.6	01 04	02 44	31 ^m
14386	155344	17 05.9	26 34	"	"	"	11.6	02 47	05 33	36 ^m
	164898	17 58.3	45 21	"	"	"		03 43		
14387	164898	17 58.3	45 21	"	"	"	11.5	03 52	04 36	36 ^m
				Focus Test						

Try focus 12.930

36

Focus 12.930

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
21 ^h	0 ^h 57 ^m W	+25° 13'	1	8.13 K ₀	1-1-1	AG 25 good
21 ^h 4 ^m	0 ^h 40 ^m W	-3° 7'	1	var. cGop	1-1-1	good
0100	0 53 W	+24° 45'	1	8.06 K ₀	1-1-1	AG 25 good
0244	1 31 W	25 10	1	8.30 G ₅	1-1-1	" " good
0350	0 16 W	26 30	1	7.59 K ₀	1-1-1	" " good
0436	0 56 W	45 21 O.T.B.	1	7.44 A ₀	1-1-1 6/4	BINARY focus OK 1 P.H. LOADED + 12

L & Wn showed ~ 80 visitors γ Leo thru 74',
 1/2 thru solar telescope, 38

Focus: 12.930

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
21:31	1 ^W 31	+24°16'	0+	8.05 KO	1-1-1 AG25 some haze fine
20:14	1 17 W	+26°17'	0+	8.00 KO	1-1-1 AG25 " " good
21:35	1 42 W	29 17	0-1	8.49 Go	1-1-1 " " sharp
21:34	1 46 W	24 40	0-1	8.86 Ke	1-1-1 " " fine
					6/4 focused again

Focus 12.930

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS								
21 40 4	W 1 45	25 15	0	8.13 K ₀	1-1-1 <i>some clouds.</i> Program gives 81950 = 25 ^h 11. <i>l mark</i> Field checks ok.								
23 02 1	W 1 31	25 15	0	8.18 G ₀	1-1-1 <i>l mark</i>								
00 35	1 51 W	24 55	0	8.35 K ₀	1-1-1 <i>l mark</i>								
02 52 3	1 38 W	28 17	0	8.54 K ₂	1-1-1 <i>good</i>								
04 5	1 19 W	27 21	0	8.33 K ₀	1-1-1 <i>good</i>								
				6/4	<i>found good</i>								
				May 7 12	<table border="0"> <tr> <td>MTW</td> <td>SC</td> <td>MTW</td> <td>STW</td> </tr> <tr> <td>+1^m06.6</td> <td>-1^m04.1</td> <td>-03.2</td> <td>-0.0^m</td> </tr> </table>	MTW	SC	MTW	STW	+1 ^m 06.6	-1 ^m 04.1	-03.2	-0.0 ^m
MTW	SC	MTW	STW										
+1 ^m 06.6	-1 ^m 04.1	-03.2	-0.0 ^m										

4 birds snowed approx 30
 visitors ♂ with 74"
 ♀ with horn tel.

Focus 12.030

42

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
2:32	1 ^h 32	+29° 23'	1+	8.39 G0	1-1-1	AG 25 FREQUENCY RESOLUTION TERRIBLE OCCASIONAL CLOUDS
2:38	1:42 V	29 30	1-2	8.19 G5	1-1-1	AG 25 OCCASIONAL CLOUDS
2:59	1:40 W	29 30	1-3	8.91 G5	1-1-1	AG 25 THICK HOSE O.C.B. 6/4

4 PH LOADED + 30

H ON CHECK.

Sun May 9/10. Solid overcast & rain. Wm.

	m.e.	sc	m.t.w.	s.t.w.	s.w.
May 10	+66	-64	+03'	-0.1	0.00

wed May 12/13. Cloudy, becoming overcast by 2100. Wm.

Date Friday May 14-15 1948 W. Julian Day.....

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
14400	H.D. 145458	1606.0	2545	I-12	E10320	008	11.1	0039	0159	4
14401	156362	1712.0	2716	"	"	"	11.0	0203	0301	1
14402	157142	1810.3	2816	"	"	"	11.0	0304	0410	2
Three Test										
Saturday May 15-16/48 Hd-L-No										
Approx. 70 visitors enjoyed a short talk by B. Herz, followed by a demonstration with the telescope (cloudy - thunder storm)										
Monday May 17-18/48 Rainy all night D										

TEMP. 11.2
 MICRO. 12.950

44

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
0157	105W	25 38	0	7.88 Ko	1-1-1 AG. 25 fine
0301	101W	27 11	0-1	7.58 Ko	1-1-1 " " strip
0410	113W	28 12	1	7.58 Ko	1-1-1 " " 1 strip
		O.T.B.		3/4	focus good.

1 P.H. LOADED +21

	MC	SC
May 17	+62.0	-66.3
	me	se.
May 18	+63.0	-67

HTW	STW
+20.2	+0.2
mTW.	STW.
+19.2	+0.2

Date Tues, May 18-19, 1948 W.M. - No. _____ Julian Day _____

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
14403	HD 105 771	12 ^h 22 ^m 4	+29° 37'	I-22	E103-0	^{5L} 006	+12.2	20 35	22 05	3
14404	HD 118 271	13 ^h 35 ^m 3	+26° 26'	"	"	"	+12.0	22 11	23 45	4
14405	H.D. 137003	15 18.6	+28 24	"	"	"	+12.0	23 49	01 43	1
14406	155839	17 09.0	+25 07	"	"	"	+12.0	01 47	04 01	2
	Focus test - outside this base 6 ^s 5 ^s									

Date Wed. May 19-20, 1948 HL- 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
14407	HD 102142	11 40.3	+27 46	I-12	E103=O	008	+11.2	20 26	21 16 3	W 1 01
14408	HD 109552	12 30.5	29 23	"	"	"	+11.1	21 21	23 25 4	W 2 28
14409	HD 130766	14 44.9	25 35	"	"	"	11.2	23 28	01 03 1	01 50 v
14410	152032	16 45.9	26 23	"	"	"	11.1	01 07	02 33 2	1 19 w
14411	16803	18 12.8	27 04	"	"	"	11.3	02 43	04 05 3	1 24 w

Focus Test

Thurs May 20-21 / 48 Yu-No

Cloudy with scattered showers early evening - clearing
about 2:00 A.M. (still very hazy) - filled in 4:00 A.M. -
done sweating badly.

Set

Focus 12.930

48

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
21 16 3	W 1 06	27 29	2+1	7.72 G ₅	1-1-1 strong
23 25 4	W 2 26	29 06	1-0-1	8.39 G ₀	1-1-1 frequency control v. bad. Clouds 2240-2300
0 05 1	0 150 W	25 23	0-1	8.06 K ₀	1-1-1 strong
0 23 3	1 19 W	26 18	0-1	7.99 K ₀	1-1-1 strong
1 16 6	1 24 W	27 05	0-1	8.23 G ₀	1-1-1 DOME TURNING FAILED: THrice 6/4 good
	O.T.B.				

4 P.H. LOADED + 128
focus central to videt

Fri May 21 changed to 25" camera
12" focus was 12.930, Tilt 20.25.

Set 25" tilt 23.15 focus 15.552 mic, 23.56 vernier
(= Tabular - 08)

Date ~~to~~ Fri May 21-22, 1948 Hd-De - D 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
14412	HD 116842 alcor	13 21.2	55 30	I-25	E10320	008	+10.0	20 56.	21 16	1
								21 22	21 44	W 0
								21 44	21 52	W 01
14413	"	"	"	"	"	"		21 53	21 57	W 01
								21 58	22 08	02
							+10.0	22 09	22 23	04
14414	"						+10.1	23 38	23 48	3
								23 46	23 50	
								23 50	00 00	2 18
14415	"						+10.0	00 00	00 04	
								00 04	00 12	
								00 11	00 16	2 20
14416	"						+10.0	00 18	00 26	
								00 26	00 32	
								00 30	00 36	
14417	"						+10.0	00 39	00 43	

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
21 16	E 0 26	85 15	0	4.16 A5	9 Set 1 Some clouds, finally thick
21 44	W 0 01		0	9	Set 5 clouds, then clear
21 52	W 0 10		0	9	Set 8 1/2
21 57	W 0 15		0	9	Set 1 } De guiding
22 05	W 0 25		0	9	" 6. Clouds again.
22 22	W 0 40		0	9	" 9
23 00			0	9	Set 1 Clearing
23 50			0+	9	" 6
00 00	W 2 18		1	9	" 9 Clear
			1	9	Set 1
			1+	9	" 6
	2 24		1+	9	" 9
			1+	9	Set 1
			1+	9	" 6
			1+	9	" 9
				9	Set 1

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
0.5		55 15	0+	7.16 A5	9 set 6
	1 SW		0+	9	" 9 Clouds
0.7	5h 48 W	-07 38	1-2	6.4 A6-G	3-3-3 set 3 clear at 01 45 Bii. fine
					10-7 set 8
3.00	2h 07 W	+16 30	1-2	7.44 F03	3-3-3 clouds at 3,40 Bii. Whirl
					4 static halos located good
Saturday AM					
Changed to 12". Focus micrometric 12.930 vernier 26.18					
Tilt 20.25					

Date *Sept. 22 - 23 1918 Whitcomb - V* Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.
14420	HD 121844	13 ^h 52 ^m .9	+25°31'	I-12	E103a-b	SIT 008	12.7	00 13	00 13
14421	145404	16 05.7	26 16			"	12.7	00 17	02 47
<i>Focus Test</i>									

Date Mon. May 21-25, 1948 Wm - W Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
14423	HD 122052	13 ^h 51 ^m 3	+25°13'	L-12	F103-0	⁵⁶¹ 208	+13.2	23 09	23 23	1 ^m 26
14424	HD 139608	15 ^h 34 ^m 0	+24°51'	"	"	"	13.2	23 33	00 49	1 ^m 08 ^w
14425	151625	16 ^h 43 ^m 5	28 34	"	"	"	13.2	00 52	02 58	4 ^m 11 ^w
14426	17594	18 ^h 52 ^m 7	28 04	"	"	"	12.1	00 56	03 50	1 ^m 06 ^w
<i>Focus Test</i>										

Cloudy at sunset; clearing gradually

Focus 12.090

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
23 -	1 ^m 26	+24°55'	0+	7.25 G5	1-1-1 AG25
0244	1 08 W	24 41	0	7.81 M3	1-1-1 AG25
5152	2 51 W	28 29	0-1	8.50 G5	1-1-1 " "
055	0 56 W	28 08	0-1	8.00 K ₀	1-1-1 " "
		C.T.B.			6/4
					3 P.H. LOADED + 1/2

Date Tues May 25-26 1948 Hd.-De-No Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
14427	HD 106398	12 09.3	+27 03	I-12	103a-0	008	+16.0	20 51	21 51	2
14428	HD 115929	13 15.2	+28 38	I-12	103a-0	008	+16.0	22 01	23 41	3
14429	HD 139749	15 34.8	+26 04	I-12	103a-0	008	+16.0	23 57	01 43	4
14430	158332	17 23.6	+26 53	"	"	"	+16.0	01 47	03 15	+
14431	187462	19 45.0	+27 29	"	"	"	+16.0	03 19	04 21	2
Focus test - outside thin lens $6^{\circ}-5^{\circ}$										

Focus 12.940

60

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp.	REMARKS
215	1 37	26 48	1	7.88 G ₅	1-1-1	De quiding & changing
234	2 22	28 22	1-2	8.42 G ₀	1-1-1	fine
014	2 06 W	25 54	2	8.43 G ₅	1-1-1	fine
0315	1 48 W	+26 50	2-3	8.51 G ₅	1-1-1	strong
042	0 13 W	+27 35	3	7.28 G ₀	1-1-1	too close

focus OK
 May 26/48: $\begin{matrix} \text{m} & \text{STW.} & \text{STW.} \\ \text{5} & & \text{m} \\ 0 & 0 & 0.0 \end{matrix}$ (Reset)

Date Wed. May 26-27, 1932 Mt. Ga. - V Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle Est.
14 432	HD 111541	12 ^h 44 ^m 0	+26° 34'	T-12	E103a	57 000	+18.7	21 30	21 25	3
14 433	HD 117 023	13 ^h 22 ^m 5	+20° 34'	"	"	"	+18.3	21 30	23 15	51
14 434	HD 136 274	15 ^h 14 ^m 7	+26° 04'	"	"	"	19.0	23 24	00 48	1
14 435	16 4898	17 08.3	45 21	"	"	"	19.0	00 55	01 35	2
14 436	15 9968	17 32.4	27 39	"	"	"	19.0	01 39	02 39	3
14 437	17 2169	18 33.6	29 29	"	"	"	19.0	02 43	03 15	4
14 438	210 334	22 04.8	45 15	"	"	"	19.0	03 27	03 59	246
<i>Focus Test</i>										
14438 F ₁		<i>Focus Test</i>			O		<i>Settings 1, 5, 9.</i>			
F ₂		"	"		6a		" 1, 5, 9			
F ₃		"	"		De		" 1, 5, 9			

Focus 12.990

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
1 5	0° 33	+26° 43'	2	7.81 K0	1-1-1	AG 25 fine
23 15	1° 51	+20° 08'	2	8.77 K0	1-1-1	AG 25 Ga Guiding fine
00 17	1 35 W	25 53	2	8.30 G0	1-1-1	AG 25 HAZE "
01 25	0 24 E	45 21	2	7.44 A0	1-1-1	BINARY HAZE l strip
02 34	1 06 W	27 36	2	8.00 M0	1-1-1	A.G. 25 fine
03 15	0 41 W	29 31	2	7.69 K0	1-1-1	AG 25 l work
03 24	2 06 E	45 29	2	7.10 G0	1-1-1	BINARY fine
	O.T.B.				6/4	centre to violet
						3 P.H. LOADED + 4
	O.T.B.				4/4	PLATES NEEDED
	O.T.B.				6/4	
	O.T.B.				6/4	

Try focus 12.950

64

Focus 12.950

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.			REMARKS
22 ^h 20 ^m	0 ^h 50 ^m W.	+27° 4'	1	8.61 G5	1-1-1	AG 25	Thunder lightening in this W. Haze 22 ^h 20 ^m clouded up
					6/4		2 star exposures both too weak
					focus et violet		

about 140 visitors

66

Mars + M3 with 74-inch
Saturn with 5 inch
Venus with 4 inch

} seeing unsteady

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp.	REMARKS
23 54	1 47 W	+29 36	0-1	7.94 M3	1-1-1	Focus left at 12.950 Good
02 34	2 17 W	+26 10	0	8.27 G5	1-1-1	- I believe there is an error in the 1950 R.A. Good
			focus OK			coordinate of this star - should be ✓ 16 ⁿ 29.8 ^m - star field corroborates this conclusion thin cirrus clouds 01.45 - progressively thicker 02.15 - star gone 02.30

Focus 12.950

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
22 ^h 30 ^m	1 ^h 55 ^m W	+26° 00 ^m	1	8.78, G ₀	1-1-1 AG 25 good
01 2	1 ^h 55 ^m W	+25° 18 ^m	1	8.27, G ₅	1-1-1 " good
	1 ^h 49 ^m W	+28 30	1-2	8.28 K ₀	1-1-1 light haze + clouds from N 01 20 fine
01 4	2 ^h 22 W	+25 39	1+	8.18 K ₅	1-1-1 setting 3 light clouds, N wind 02 40 good
					8 good

4 + 12 plates in dome.

	m.e.	s.e.	focus ok		S.T.W.
	m.T.W.	S.T.W.	S.T.W.	S.T.W.	S.T.W.
May 31 / 48	+57.1	-72.2	+02.0	+0.0	+0.3

Focus 12.950

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS	
22 50	2 ⁿ 20 ^W	+27 05	0	7.91G _o	1-1-1	Haze: <i>weak</i>
00 40	2 06 ^W	+25 31	0	7.93K ₂	1-1-1	Partial Haze: <i>fine</i>
02 02	1 10 ^W	26 07	0	7.70 K ₅	1-1-1	AG 25 <i>good</i>
03 04	1 15 ^W	28 11	0	7.58 K _o	1-1-1	<i>weak</i>
03 54	1 51 ^E	25 28	0	7.10 G _o	1-1-1	BINARY <i>fine</i>
		O.T.B.			6/4	

2 P.M. LOADED + 12

focus: center slightly too wide

From 12.955

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
22 28	1 06W	+28 07	1	7.63 G ₅	1-1-1 A.G. 25 0 guiding
00 34	1 53W	+26 55	1	8.63 K ₀	1-1-1 " "
01 47	0 50W	+25 51	1	7.61 K ₀	1-1-1 "
02 51	1 16W	+45 20	1	7.44 A ₀	1-1-1 BINARY
03 22	1 10W	+30 12	1	7.77 K ₅	1-1-1 A.G. 25
		O.T.B.			6/4
					1 P.H Loaded + 8
					June 2/48
					m.c. +56.4
					s.c. -73.2
					m.t.w. +6.
					s.t.w. +0.0
					s.w. +0.0

Clouds & H₂O to 2230 Wm.

NEW DESK A LITTLE TOO LOW
SHOULD BE UP ON BLOCKS. 74

Focus 12.955

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
01 31	057 W	75 16	0	7.24 F2 1-1-1	FINDER W Supp.
02 45	040 W	45 12	0	6.86 A0 1-1-1	BRASS EYEPIECE SLIT Supp.
03 16	033 W	27 51	0	6.51 B5 1-1-1	BINARY little work
03 55	142 E	45 28	0	7.10 G0 1-1-1	BINARY plate numbered 14458
		O. T. B.		6/4	
					1 P. H. + A.
					June 8/48 M.T.W. -0.2 S.T.W. +0.4
					June 8/9: Rain & overcast. Wm.

cloudy earlier

Focus 12.957.

76

0.7

Mirror re-aluminized since June 3.

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
22 28 2	W 125	27 22	0	8.61 K ₀	1-1-1 Some haze I wish
00 53	W 138	26 35	0	8.70 K ₂	1-1-1 I wish
0 11	N 0 04	+29 04	0	8.57 G ₅	1- Home sweating excessively - observing too much
	O.T. B				6/4 discontinued to prevent condensation on mirror
					1 P.H. Loaded + 12
					focus centre sl. to match
					June 10/48
					m.e. 9.5.
					+51 -78
					M.T.W. 3 -03
					STW. m +0.5
					Rank 5 0.0

Date Fri June 11-12 Ga-O-D/ 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
14463	HD 119944 119944 Focus test	13 413	+27 43 43					21 20	22 54	2 14
<p>Saturday June 12-13/48 Hd-Ga-De-No</p> <p>Opp 50 minutes given illustrated lecture and demonstration with 74" telescope by Hd de</p> <p>sky showing some promise by 01:00 A.M. - clearing slowly - thought of opening up 03:30 - found focussing belt broken - could not get it to stay permanently fixed before closing time!</p>										

clear

Try focus 12.975 - Hd.

78

Showed Dr Sen the moon and M13
at dusk.

Very poor sky

Focus set 12.975

Ending Time
E.S.T.

Hour Angle
End

Declination

Seeing

Ptg. Mag.

REMARKS

2256

2^h 14^m W

+27 30

0

8.76 K₀

1-1-1

6-4

Setting 5

9 3x10 plates in done

Minor heaton

Clouded up 2230

state

lens

lens

lens

79

Sun
Date June 13-14, 1948 ^{Ga} Wm - De 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
14 464	HD 82780	00 ^m 10 ^s	+140° 24'	I-12	F103a 0	SIT 003	—	20 57	21 11	3
14 465	HD 130500	14 ^m 43 ^s	+25° 53'	I-12	F103a 0	"	+21.6	21 50	22 50 ^(?)	4
14 466	HD 143705	15 ^m 56 ^s	+20° 13'	"	"	"	21.7	22 54	23 44	1
14 467	HD 155041	17 ^m 04 ^s	+29° 17'	"	"	"	21.3	23 50	01 02	2
14 468	HD 167782	18 11.7	+25 46	"	"	"	21.1	01 09	02 25	3
14 469	HD 196133	20 30.3	+44 50	"	"	"	21.0	02 33	02 45	4
14 470	HD 190470	20 00.0	+25 30	"	"	"	21.0	02 52	03 44	1
		Focus TEST								

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
21	W 50	+25 42'	7	5.90 F2	1-1-1 Binary (ending)
22 55	1 ⁿ 15	+25 42'	1:0	8.96 K ₀	1-1-1 AG 25 Occasional clouds fine
23 00	0 ^w 57	-23 05	1	8.44 G5	1-1-1 (no emitter) " <u>Nothing on plot</u>
01 02	1 08W	+29 13	1	8.34 K2	1-1-1 " Strong
02 25	1 24W	+25 47	1	8.91 K ₀	1-1-1 " fine
02 55	0 46E	+44 59	1	6.68 A ₂	1-1-1 Binary loaded in center very strong
03 --	0 55W	+25 38	1	8.51 K ₀	1-1-1 AG 25 very strong
	O. T. B			6/4	focus centre slightly to violet. Mirror heat on.
				2 P. H. Loaded +4	
				June 14/48	m.c. s.f. m.T.W. s.T.W. +49 -80 000 -0.1

81.

Date Mon June 14-15 1948, L-Gd/v 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
14471	HD. 82780	09 29.1	40 24	T-12 $\frac{1}{2}$	F.103-0	set 008	22.9	21 07	21 21	2
14472	HD 126778	14 22.5	29 02	T-12 $\frac{1}{2}$	"	"	23.0	21 34	23 00	3
14473	HD 147 ^{486?}	16 17.4 ²	29 13 ⁰⁹	"	"	"	22.8	23 12	01 32	4
14474	175204	18 49.2	25 15	"	"	"	22.5	01 36	02 48	5
14475	196133	20 30.3	44 50	"	"	"	22.5	02 55	03 09	2
14476	210334	22 04.6	15 15	"	"	"	22.4	03 15	22 39	3

Focus list

Date Tues. June 15-16, 1948 Hd-0-De Julian Day Ga

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
14477	HD 82780	09 29.1	+40 34	1-12 1/2	E-103a-0	^{Set} .008	19.0	21 01	21 21	1
14478	HD 136901	15 18.1	+25 59	"	"	"	18.9	22 00	22 54	2
14479	HD 147487	16 17.2	+27 36	"	"	"	18.8	23 06	00 46	3
14480	HD 165589	18 01.6	+28 41	"	"	"	18.6	00 58	01 32	4
14481*	Comet 1948g	^{set} 00 15.1	^{act} +54 45	"	"	^{Set} .012	18.8	01 54	03 34	1
		Focus	TEST			^{Set} .008				

* Hopefully underexposed. Plate is now (Dec 10/52) in general file at beginning of 0 hours

Focus set at 12.986

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
	5 22 N	-40 12	0	6.90 F ₂	1-1-1 Binary. * image out of focus and belt broken
	7 54 W	+25 48	0	8.22 K ₀	1-1-1 Fixed belt with thread
00 -6 5	1 46 W	+27 30	0	8.96 G ₀	1-1-1
01 32 -	0 48 W	+28 41	0	7.86 K ₂	1-1-1
03 3-	3 19 E	+54 56	0	? int 6-7?	1-1-1 guiding at visitors expense. Later mostly lost, image very faint, may be obscured by light.
		O.T.B			6/4
					3 P.H Loaded +4
					Mirror heat on.
					June 15/48
					m Tw. +04
					S.T.W. 0.0

Date Wed. June 16-7 1949 - Julian Day 178.5

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
14482	AG 6888	14 ^h 29 ^m	+28 ^o 31'	1-12	E 100-1	set .008	20.0	21 04	23 22	2 18
14483	AG 7420	15 ^h 54.6	+28 02	1-12	"	"	19.8	22 29	23 29	7 00
14484	HD 156457	17 12.4	-2 34	1-12	"	"	19.9	22 41	23 59	1 18
14485	Comet 9459	17 00	+55	1-12	"	set .016	19.8	01 14	02 30	1 16
	Trans									

* see note previous page.

Focus 12.986

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
	1 15 ^m W	+24° 57'	0	8.586	1-1-1 AG. 25
	1 36 ^m W	+27° -6'	0	8.446	1-1-1 AG. 25 plate no in corner
	1 57 ^m W	+28° 48'	1	8.786	1-1-1 AG. 25 1st - near center
	2 01 ^m W	+28° 14'		6.7	1-1-1 forget 2nd comp.
				6.4	2 plates + 12 gain some
					blurred heater
		E 7 2 01 ^m W 10			

87

Date Thurs June 17-18, 1948 H₂O/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
14486	H D 126598	14 21.4	-26 43	^{12$\frac{1}{2}$} 1-28	E-103 ₀₋₀	Spt. .008	19.9	21 00	21 04	3
14487	H D 139550	15 33.7	+25 57	"	"	"	19.8	22 14	22 14	4
14488	H D 155675	17 08.0	+25 22	"	"	"	19.6	23 57	01 01	19
14489	172169	18 33.6	29 29	"	"	"	19.6	01 05	01 35	2
14490	174695	18 46.7	28 25	"	"	"	19.6	01 39	02 33	2
14491	196123	20 30.3	44 50	"	"	"	17.6	02 38	02 38	-
14492	21033A	20 04.6	45 15	"	"	"	19.6	02 01	02 40	00
<i>Wilson Test</i>										

Focus 12.986

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
	1 03W	-26 30	0	8.51 K5	1-1-1	AG 25 fine
	1 36W	25 49	0	8.84 G5	1-1-1	AG 25 fine
	1 19W	25 15	0	8.58 G0	1-1-1	AG 25 fine
	0 28W	29 32	0	7.69 K0	1-1-1	AG 25 fine
	1 12W	25 28	0	7.85 K0	1-1-1	AG 25 some clouds strong
	0 05E	45 00	0	6.68 A2	1-1-1	BINARY clouds v. strong
	0 03E	45 24	0-1	7.10 G0	1-1-1	BINARY <u>v. strong!</u>
	C.T.B.				6/A	

3 P.H. + 4

focus OK.

June 18/48	m.o.v. +45°	s.o. -82°	m.t.w. +02.0	s.t.w. 0.0	Resch S.W. 0.0
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Approx. 40 visitors shown
 2 ad R with 4"
 E Box with 74"

cloudy during afternoon - clearing
 slowly at sunset.

90

Focus set 12.986

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp.	REMARKS
23 44	1 21 W	+29 06	0*	8.44 G5	1-1-1	AG 25 large? fine
01 33	2 05 W	+26 34	0	8.63 G5	1-1-1	" " " " fine
02 19	1 04 W	25 16	0	8.83 G0	1-1-1	" " " " fine
03 06	0 10 W	41 59	0-1	6.68 A3	1-1-1	BINARY " " fine
03 11	0 49 E	45 28	0	7.10 G0	1-1-1	BINARY OF SPECTRUM. fine
	O.T.B.				9/4	
						focus OK.
						2 P.H. LOADED + 8

Date Sunday June 20-21 1948 G-7/No Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
14498	HD 120875	12 44.2	+25 11	12 1/2"	E-103	f. + f. 08	+22.7	20 54	21 04	
	HD 120875	15 48	+2 48	12 1/2"	E-103	.008	+22.5	21 38	22 58	
14499	149 132	15 57	+28 48	"	"	"	+22.5	23 06	01 16 3	2 26 W
14500	174126	18 43.9	+28 32	"	"	"	+22.1	01 21	03 01 4	1 55 W
	Focus test - outside thru lens 6" - 5"									

Focus 12986 as before

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp	REMARKS
		+24 56	0	8.56 K ₀	Lt 5	This not circled on map! Belt or focusing motor broken!
22 58	0 ^h 54 ^m W	+28 38	1	8.41 G	1-1-1	Set 7 Time off for repairs. (No ^{or strong} light around!) Haze & light around!
01 16 3	2 26 W	+29 43	1-2	8.70 K ₀	1-1-1	haze clearing somewhat 00.00 faint
03 01	1 55 W	+28 35	1-2	8.56 K ₂	1-1-1	more haze 01.00 - much thicker 02.00 at least 2 magnitudes of haze by 02.50 - worthless to continue!

focus cent slightly to red (!)
 June 21
 MTD 2.1W
 0.0 0.0 north.

Date Thursday June 24-25, 1948 ¹¹⁰ ~~110~~ Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.
14501	HD 149174	16 31 04	+25 41	1-12 1/2	E103a0	2/8	+25.3	22 45	22 59
				FOCUS TEST					
				scattered clouds, with signs of improving clear at 01:45 then clearing again				01:30	
14502	HD 144886	17 50 2	+45 31	1-12 1/2	E103a0	1008	+25.5	22 10	02 45
				Focus test - outside the room to 5 th - 5 th					

Focus - 12.986

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
22 59	0 27W	+25 35 O.T.B	0.1	8.84 K	1- Cloud after first five minutes, too weak Closed at 22 59 - heavy clouds approaching with threat of rain.
					2 P.H. Loaded + 8
23 00	2 17W	+45 21	0	7.42 8g	1-1-1 BINARY ⁰²²² _{0235C} - star gone 02 48 deck and warming room lamps went light Mirror heat ON 1 PH Loaded + 8
					MTW ~ 0.0 ~ STW ~ -0.1 m

Focus 12.986

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
23 12	1 25W	+25 15	0	8.84 G5	1-1-1 AG 25
* GONE 08 20	3 08 W	+26 14	0	8.95 G5	1-1-1 " large gathering 0010 - THICK
		O.T.B.		6/A	
					H. on M.
					3 P.M. BORDER + A.

Approx 50 visitors shown \S Boo.
 with 74" and 4 with 3", and horiz telescope.

98

Focus - 12.986

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
0052	1 ^h 18 ^m W	+26 48	0	8.23 60	1-1-1 Haze!; AG 25. Sky obscured until 23 44 6/5 by mist closed down 0100 very heavy haze 2 PH loaded +4. (returned to refrigerator) Mirror heat ON

June 28/48	m.c	s.c.	m.t.w.		s.t.w	Res + s.t.w -0.4
	+37.0	-70.0	+14.8	-0.4		
June 30/48	MTW	STW				
	+1 ^m	-17 ^m				

Date Wednesday June 30 - July 1 / 48 S-H-D-N 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
14506	NGC 5904	15 16.0	+02 16	Newton	E-103 ₂ 0	—	—	21 26	21 29	0:03
14507	6205	16 39.9	+36 33	"	"	—	—	21 33 ₀₀	21 36	0:03
14508	6229	16 45.4	+47 37	"	"			21 43	21 57	1:29E
14509	5634	14 27.0	05 45	"	"			22 02 ₃₀	22 16 ₀₀	1:44E
14510	5897	15 14.6	-20 49	"	"			22 25	22 35	1:01E
14511	6333	17 16.2	-18 28	"	"			22 35 ₀₀	22 43 ₀₀	1:08E
14512	6171	16 29.7	-12 57	"	"			23 05 ₀₀	23 17 ₀₀	1:46E
14513	6333	17 16.2	-18 28	"	"			23 23	23 31	1:08E
14514	6093	16 14.1	-22 52	"	"			23 35	23 41	1:06E
14515	6779	19 14.6	+30 05	"	"			23 46	23 52	1:06E
14516	6838	19 51.3	+18 38	"	"			23 57	00 03	1:06E
14517	6171	16 29.7	-12 57	"	"			00 07 ₀₀	00 19 ₀₀	1:12E
14518	6333	17 16.2	-18 28	"	"			00 21 ₀₀	00 27 ₀₀	1:06E
14519	I.C. 1276	18 08.4	-06 59	"	"			00 36 ₀₅	00 41 ₀₀	1:05E
14520	NGC 6538	19 51.3	+18 38	"	"			00 51 ₀₀	00 57 ₀₀	1:06E
14521	I.C. 1311	20 08.8	+41 04	"	"			01 02 ₀₀	01 12 ₀₀	1:09E

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
					Focused on β Librae
21:15	0 32W	+02 16			
21:16	0 52W		poor seeing.		
21:50	0 29E		"		
22:10	2 18W				
22:15	0 40W	-20 48			
22:20	0 09E				unaided focus on γ Capri
22:25	0 06W	-12 55	poor!		No guiding
22:30	0 34W				
22:40	2 46W	-22 50			
22:45	1 03E				
22:50	2 39E				
22:55	3 08W				
23:00	2 30W				focused on γ Ophi - focus o.k.
23:05	2 18W				
23:10	2 29E				
23:15	0 37E				

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
07:15	2	28 W			
07:36	1	22 N			Tried 6981 found too far away to get.
01:57	31	42 W			
02:01	21	36 W			
02:21	0	02 E	fair		No guiding
02:37	0	34 E			
02:52	2	16 W			
03:07	5	36 W			No guiding
					July 1 - 11 ⁰⁰ AM EST - Turned greenhouse heater off.
					H.

Date Thurs July 1-2/48 S-H-De-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.
14530	NGC. 5904	15 16.0	+02 16	Newt	E-103b.0	—	—	21 24	21 27
14531	6205	16 39.9	+36 33	"	"	—	—	21 31	21 34
14532	6229	16 45.6	+47 37	"	"	—	—	21 40	21 54
14533	5634	14 27.0	-05 45	"	"	—	—	21 59	22 11
14534	5897	15 14.6	-20 49	"	"	—	—	22 15	22 25
14535	6333	17 16.2	-18 28	"	"	—	—	22 29	22 35
14536	6171	16 21.7	-12 57	"	"	—	—	22 39	22 49
14537	6779	19 14.6	+30 05	"	"	—	—	22 56	23 00
14538	6333	17 16.2	-18 28	"	"	—	—	23 13	23 21
14539	6338	19 51.3	+18 38	"	"	—	—	23 38	23 44
14540	IC. 1311	20 08.8	+41 04	"	"	—	—	23 50	00 04
14541	NRC 6093	16 14.1	-22 52	"	"	—	—	00 11	00 17
14542	6171	16 21.7	-12 57	"	"	—	—	00 21	00 33
14543	6333	17 16.2	-18 28	"	"	—	—	00 36	00 44
14544	6838	19 51.3	+18 38	"	"	—	—	00 49	00 55
14545	IC 1311	20 08.8	+41 04	"	"	—	—	00 59	01 09

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
					Focused on β Libr.
21 27	00 34W	+02 21			
21 34	00 45E	+36 38			
21 50	00 28E	+47 42			
22 00	02 07W	-05 44			
22 05		-20 47			No guiding
22 15		-15 26			Unguided
22 21	00 42W	-12 53			telescope out of balance - sub. added
22 22	01 48E	-15 24			Focused on β Ori
22 23	01 27W				
22 24					
22 25					
22 26	01 44E				
22 27		+41 06			No guiding
22 27	02 26W	-22 46			
22 28	02 27W	-12 53			
22 29	01 31W	-18 24			
22 30	00 33E	+18 43			
22 31	00 36E	+41 10			

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
01 15	01 45E	-00 58			
01 25	01 18W				
01 35	01 37W	-24 50			
02 05	02 00W	-23 25			
02 15	00 51W	+18 43			focused on \odot Agil
02 25	00 21W	-12 40			No guiding
03 15	02 27W	+01 00			
03 16	0 07W	-01 00			

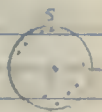
Date Saturday July 24 / 1918 Wm. G. A. Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Pl
14554	HD 149803	16 ^h 32.0	+29° 56'	1-12	E 103 _a	^{let} .008	+25.6	22 16	23 02	2
14555	HD 159608	17 30.5	-29 49	"	"	"	+25.6	23 12	00 02	3
14556	HD 17830	18 31.8	+27 08	"	"	"	25.4	00 07	00 33	4
14557 ^{main} B(8)	AG 10151 10449	19 31.7	30 10	"	"	"	25.3	01 02	01 42	1
14558	AG. 11036	20 10.6	26 29	"	"	"	25.3	01 47	02 27	1
14559	201246	21 03.9	28 14	"	"	"	25.4	02 40	03 20	1
14560	210334	22 04.6	45 15	"	"	"	25.4	03 27 1/2	03 34 1/2	1
14561	211606	22 15.2	26 26	"	"	"	25.4	03 39	03 55	1
<i>Strom East</i>										
Plates 14554 - 14558 and 14561 developed in slow and sod. sulphite <u>only</u> .										
14557A(5)	HD 177251 AG. 9516	18 ^h 58.8	+29° 0' 9"	"	"	"	(25.3)	(00 39)	(00 57)	1

4.5m to 1.5m above E Bo & M13
 through 74 telescope and 4 through
 1.5m telescope

Focus 12.986

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp.	REMARKS
00:06	0 ^h 59 W	+29° 48'	1-2	8.78 G5	1-1	AG 25 (1 on sky stuck off)
00:07	1 01 W	+29 46	2	8.90 M0	1-1-1	AG 25
00:08	0 51 W	+27 11	3	8.62 K0	1-1-1	AG 25
00:04	0 30 W	30 16	3	8.98 K0	1-1-1	AG 25 D.R. STUCK SET ON WRONG*. NO CHECKED WATCH + CIRCLE
00:25	0 46 W	36 57	3	8.93 G5	1-1-1	AG 25
00:22	0 55 W	28 24	3	8.93 K0	1-1-1	AG 25 D.R. STICKING completely burnt out.
00:00	0 00	45 26	3	7.10 G0	1-1-1	BINARY (beautiful) much too strong
00:55	0 27 W	26 40	3	7.95 K5	1-1-1	AG 25
		C.T.B.			6/1	I.P.H. hands H. ex M.
						NOTE re plate no 14557. The star on setting 8 is indicated in obs. book above as HD 184719. The star with the coords listed above has no HD number but is AG 10151 [K0]. Also on the above plate is AG 9516 [K0]. It was first believed to be wrong star but Ga believes it to be as indicated. below
		STW +3 ^m				
		STW -14 ^m				
(0057)	0 27 W		3	8.42 K0	1-1-	- Ga / July 9/48



109

Date Sunday July 4-5, 1948 0/100 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
14562	HD 141690	15 45.3	+25 46	I-12	E 103a	set 008	+27.0	21 15	22 43	2
14563	HD 156966	17 15.4	+27 23	"	"	"	+27.0	22 49½	23 49½	3
14564	HD. AG 8898	18 21.9	+29 21	"	"	"	27.0	23 57	01 33 * 2 min	4
14565	HD 194403	20 20.2	25 26	"	"	"	27.1	01 38	02 30	1
<i>Focus Test</i>										

Focus 12.987

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS	
2:43	01 30 W	+25 37	0	8.82 G5	1-1-1	A.G. 25. good
3:49	1 08 W	+27 19	0-1	8.48 Mo	1-1-1	" fine Clyde cut out star for 6 min.
4:50	1 45 W	+29 22	2	8.89 K0	1-1-1	" too strong clouds, haze
5:30	0 44 W	25 44	2	8.78 K5	1-1-1	" very weak haze, thickening.
	O. T. B.				6/4	clouds to violet


3 P.H. LOADED

July 5/48

H. ON	M.		
^{M₀}	^{S_C}	^{M.T.W.}	^{S.T.W.}
+29 ^s	+5 ^s	+17.5	+0.1

Try focus 12.997 ✓

112

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
01:52	04 E	+28 24.5	0	8.93 Ko	1-1-1 Setting 5 } Diff exposures due to uncertainty of mag. ^{Good}
02:42	08 E	+28 24.5	0	"	1-1-1 Setting 8 } would judge mag. as about 5.0-8.5 ^{ct}
03:31	01 W	+26 18	0-1	8.57 K5	1-1-1 AG. 25. 6/4 strong
					1 P.H. loaded
					H. on M.
					 STW MTW MC SC -1.5 ^m +.2 ^m July 6/48. +27 ^s -75 ^s

Cloudy in evening, clearing approx 0015

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS										
01 40	05W	+18 41	-	-	Focused on 2 Agil.										
01 33	07W	+41 04	-	-											
01 30	24W	-23 55	-	-											
01 29	21W	-24 50	-	-											
01 28	15W	-12 40	-	-											
01 20	17E	-01 02	-	-											
01 08	35W	+18 41	-	-											
01 01	46W	-22 02	-	-											
01 01	14W	-12 42	-	-											
<p>Motor on Newtonian platform requires checking - slow in attaining speed.</p>															
<table border="0"> <tr> <td>MC</td> <td>SC</td> <td>MTW</td> <td>STW</td> <td></td> </tr> <tr> <td>+26^s</td> <td>-73^s</td> <td>+1.2^m</td> <td>-0.5^m</td> <td>July 7</td> </tr> </table>						MC	SC	MTW	STW		+26 ^s	-73 ^s	+1.2 ^m	-0.5 ^m	July 7
MC	SC	MTW	STW												
+26 ^s	-73 ^s	+1.2 ^m	-0.5 ^m	July 7											

Date Wednesday July 7-8/48 S-H-D 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
14577	N.G.C. 6205	16 39.9	+36 33	Newt.	F-103.0	—	—	21 20	21 23	E
14578	" 5904	15 16.0	+02 16	"	"	—	—	21 29	21 32	SW
14579	" 5897	15 14.6	-20 49	"	"	—	—	21 42 ₂₅	21 52	SW
14580	" 6402	17 35.0	-03 13	"	"	—	—	22 03 ₁₀	22 17	SE
14581	" 6333	17 16.2	-18 28	"	"	—	—	22 22 ₁₂	22 30	SO
14582	" 6356	17 20.7	-17 46	"	"	—	—	22 34 ₁₀	22 48	SW
14583	" 6093	16 14.1	-22 52	"	"	—	—	22 57 ₃₀	23 03	SW
14584	" 6402	17 35.0	-03 13	"	"	—	—	23 09 ₁₂	23 23	SW
14585	" 6333	17 16.2	-18 28	"	"	—	—	23 27 ₁₀	23 35	SW
14586	" 6235	16 50.4	-22 06	"	"	—	—	23 39 ₃₀	00 03	SW
14587	" 6779	19 14.6	+30 05	"	"	—	—	00 09 ₂₇	00 15	SE
14588	" 6838	19 51.3	+18 38	"	"	—	—	00 18 ₃₁	00 2-	SE
14589	IC 1311	20 08.8	+41 04	"	"	—	—	00 29 ₂₆	00 39	SE
14590	NGC 6333	17 16.2	-18 28	"	"	—	—	00 50 ₂₅	00 58	SW
14591	" 6402	17 35.0	-03 13	"	"	—	—	01 03 ₃₁	01 ¹ 17	SW
14592	" 6626	18 21.5	-24 54	"	"	—	—	01 21	01 29	SW

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
					focused on a <i>Serp</i>
21 33	00 31E	+36 38	-	-	
21 34	01 03W		-	-	Fireball 21 31 30
21 56	01 23W	-20 48	-	-	
22 17	00 31E	-03 11	-	-	
22 31	00 00	-18 26	-	-	
22 41	00 14W	-17 44	-	-	
22 52	01 06W	-22 50	-	-	Focused on γ Ophi
23 00	00 35W	-03 12	-	-	No guiding
23 07	01 06W	-18 25	-	-	Der trail - 30 sec.
00 00	02 00W	-22 04	-	-	
00 00	00 13E		-	-	
00 00	00 40E		-	-	
00 00	00 42E		-	-	
00 00	02 28W	-18 24	-	-	Focused on ϵ <i>Serp</i>
00 01	02 29W	-03 10	-	-	
00 02	01 55W	-24 52	-	-	

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
01 31	01 32W	-23 55			
01 51	00 06E				No guiding
02 14	02 11W	-08 43			
02 28	00 25E				
02 32	01 27W	+18 42			
02 51	01 40W	-22 02			
03 01	01 44W	-22 02			
03 11	01 13W	-12 41			No guiding
					MC SC MTW STW +1.5 ^s -7J ^s +12 ^m -1.4 ^m
					July 8

Date Thursday July 8-7/48 S. De-No Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
14601	NGC 6205	16 39.9	+36 33	Newt	E-103a-0	—	—	21 19. ₂₀	21 22	21
14602	" 5904	15 16.0	+02 16	"	"	—	—	21 28. ₁₀	21 31	21
14603	" 5897	15 14.6	-20 49	"	"	—	—	21 36. ₁₂	21 46	21
14604	" 6402	17 35.0	-3 13	"	"	—	—	22 06 21 52	22 04	22
14605	" 6333	17 16.2	-18 28	"	"	—	—	22 22. ₁₀	22 28	22
14606	" 6535	18 01.3	-0 18	"	"	—	—	22 32	22 52	22
14607	" 6093	16 14.1	-22 52	"	"	—	—	22 55. ₁₀	23 01	23
14608	" 6779	19 14.6	+30 05	"	"	—	—	23 08	23 12	23
14609	" 6402	17 35.0	-3 13	"	"	—	—	23 22	23 36	23
14610	" 6426	17 42.4	+03 12	"	"	—	—	23 42. ₁₃	00 06	00
14611	" 6333	17 16.2	-18 28	"	"	—	—	00 30. ₁₅	00 36	00
14612	" 6342	17 18.2	-19 32	"	"	—	—	00 39	01 03	01
14613	" 6656	18 33.3	-23 58	"	"	—	—	01 08	01 12	01
14614	" 6626	18 21.5	-24 54	"	"	—	—	01 16	01 24	01
14615	" 6717	18 52.1	-22 47	"	"	—	—	01 29. ₆	01 49	01
14616	" 6981	20 50.7	-12 44	"	"	—	—	01 59	02 13	02

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
					<i>focused and set</i>
21 22	00 28E				
21 23	01 05W				
21 24	01 22W	-20 48			30 second trail in declination.
22 00	00 26E	- 3 09			
22 01	00 02W	- 18 26			
22 02	00 19E	- 0 20			
22 03	01 37W	- 22 50			
22 04	01 13E	+30 09			Focused on β Ophi
22 05	00 52W	- 3 09			Declination drive up. Set by hand.
22 06	01 15W	+ 3 14			" " " " " " No guiding
22 07	02 11W	-18 25			{ This and all succeeding plates } { declination set by hand }
22 08	02 36W	-19 38			
22 09	01 30W	-23 55			
22 10	01 54W	-24 51			12 sec trail in declination
22 11	01 48W	-22 41			
22 12	00 13W	-12 42			Focused on star in field of NGC 6717
					No guiding. 30 sec trail in declination

Date Friday July 9-10/48 S-L-No Julian Day

Plate No.	Object	R.A. 1900 ⁻⁵⁰	Declination 1900 ⁻⁵⁵	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
14622	N.G.C. 6205	16 39.9	+36 33	Newt.	E-103.0	—	—	21 17	21 20	2.0
14623	6229	16 45.6	+47 37	"	"	—	—	21 24	21 34	1.8
14624	6402	17 35.0	-03 13	"	"	—	—	21 40	21 54	2.2
14625	6333	17 16.2	-18 28	"	"	—	—	21 57	22 03	1.9
14626	5897	15 14.6	-20 49	"	"	—	—	22 06	22 16	2.5
14627	5904	15 16.0	+02 16	"	"	—	—	22 26	22 31	1.1
14628	6535	18 01.3	-00 18	"	"	—	—	22 37	22 53	2.1
14629	6402	17 35.0	-03 13	"	"	—	—	22 56	23 03	1.1
14630	6093	16 14.1	-22 52	"	"	—	—	23 11	23 17	2.7
14631	6333	17 16.2	-18 28	"	"	—	—	23 20 ₁₃	23 32 ₁₃	1.1
	K.A. 109	17 42.5	-00 11	"	"	—	—	23 35 ₅	23 47 ₅	1.1
14632	6235	16 50.4	-22 06	"	"	—	—	23 50 ₂₀	00 14	2.1
14633	6284	17 01.5	-24 41	"	"	—	—	00 16 ₂₀	00 28	1.1
14634	6333	17 16.2	-18 28	"	"	—	—	00 34 ₂₀	00 42	2.1
14635	6544	18 04.3	-25 01	"	"	—	—	00 45	01 05	1.1
14636	6656	18 33.3	-23 58	"	"	—	—	01 08	01 12	2.1

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
					<i>focussed on δ Serp.</i>
21 20	00 26 E		<i>good!</i>		
21 34	00 18 E		"		
21 54	00 42 E		<i>superb!</i>		
22 03	00 19 E		"		<i>unguided</i>
22 16	01 56 W		"		<i>* focussed on α Serp.</i>
22 31	2 10 W		"		
22 43	0 14 E		"		<i>No guiding</i>
22 50	0 27 W		"		<i>such as this! H.S.H.</i>
23 00	1 37 W		"		<i>"It is a pleasure to work on a night"</i>
23 02			"		
23 10	01 05 W		"		
23 14	02 12 W		"		
23 28	2 21 W		"		<i>* focussed on μ Oph</i>
23 42	02 20 W		"		
23 55	01 55 W		"		
01 12	01 33 W		"		

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS										
01 23	01 57W		Superb!		20s trail in dec.										
01 41	03 01W				$01^{\text{h}} 33^{\text{m}} 20^{\text{s}}$ - 10 th mag. meter across guiding										
01 49	00 52W		Fair		eye piece ← focused on γ Sag										
02 26	00 22W		"												
02 33	02 14W														
02 47	00 03W														
03 04	00 25W				No guiding										
03 17	01 21W				" "										
03 25	02 30W														
					<table style="margin-left: auto; margin-right: auto;"> <tr> <td>MC</td> <td>SC</td> <td>MTW</td> <td>STW</td> <td></td> </tr> <tr> <td>+23^s</td> <td>-66^s</td> <td>+15^s</td> <td>-4^m</td> <td>July 10</td> </tr> </table>	MC	SC	MTW	STW		+23 ^s	-66 ^s	+15 ^s	-4 ^m	July 10
MC	SC	MTW	STW												
+23 ^s	-66 ^s	+15 ^s	-4 ^m	July 10											

127

Date Saturday July 10-11 1948 N⁵⁰ / _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
14646	HD 156002	17 10.0	+26 56	E-12	E-103 _a	Set 008	28.0	22 26	23 14	4
14647	HD 166914	18 07.7	+25 21	"	"	"	28.0	23 20	00 08	1
14648	HD 201346	21 03.9	+28 14	"	"	"	28.6	00 17	01 15	2
14649	AG 11233	20 19.2	+28 49	"	"	"	28.0	01 18	03 00	3
14650	HD 210334	22 02.6	+45 15	"	"	"	28.0	03 06	03 15	+
14651	HD 212750	22 21.5	+28 02	"	"	"	28.0	03 20	03 58	4

Focus Test

No of Visitors 150
 74" - e Bootes, M 13
 3" - Jupiter
 5" mounted The moon

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
23.4	1 01 W	+26 53	2	8.88 G ₅	1-1-1 AG 25
00.08	1 57 W	+25 22	2	8.84 G ₀	1-1-1 AG 25
01.15	0 52 E	+28 23	2-1	8.93 K ₀	1-1-1 " suspected of emission lines <small>AM CERTAIN THIS IS SAME * AS OY 14559</small>
03.00	1 38 W	28 37	2	8.77 K ₀	1-1-1 AG 25 clouds
03.15	0 08 W	45 28	2	7.10 G ₀	1-1-1 BINARY
03.51	0 34 W	28 16	2	7.86 K ₀	1-1-1 AG 25
	O.T.B.				6/4
					1 P.H. LOADED
					H. ON IV

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS										
1 42		+30 04	0	8.42 K ₀	1-1-1. AG 25 1 42 - <i>2. microns</i> Sky very uncertain until about 12:30 EST Clouded over at 1 40										
		OTB	5/4		Slide closed and opened for last two comparisons. 1 P.H. loaded in refrigerator Heat on mirror Plates needed <i>focus - center moved to violet!</i>										
					<table border="1"> <thead> <tr> <th></th> <th>m.e.</th> <th>S.S.</th> <th>MTW</th> <th>STW</th> </tr> </thead> <tbody> <tr> <td>July 14/48</td> <td>+16</td> <td>-61</td> <td>+15</td> <td>-0.3</td> </tr> </tbody> </table>		m.e.	S.S.	MTW	STW	July 14/48	+16	-61	+15	-0.3
	m.e.	S.S.	MTW	STW											
July 14/48	+16	-61	+15	-0.3											

Date Wednesday July 14-15/48 O/Ga. 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
14656	HD 142243	15 48.4	+29 13	7 -12	E-103a	Sat .008	+26.0	20 47	21 59	3
14657	HD 156563	17 13.2	+25 08	"	"	"	25.7	22 04	23 38	4
14658	AG 9364	18 51.3	+26 52	"	"	"	25.5	23 43	01 19	"
14659	HD 196448	20 32.4	+28 52	"	"	"	25.2	01 26	02 52	"
14660	HD 214023	22 30.4	+30 17	"	"	"	25.2	02 59	02 49	5
	^{of} focus test				O.T.E.		25.1			

Focus 12.996

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comparison	REMARKS
21 57	1 23 W	+29 03	0	8.76 K ₂	1-1-1	AG. 25. too strong!
23 38	1 37 W	+25 05	0	8.91 G ₅	1-1-1	" strong
01 19	1 40 W	+26 55	0	8.96 K ₀	1-1-1	" fine
02 52	1 33 W	+29 01.5	0	8.90 K ₀	1-1-1	" strong!
02 59	1 31 W	+30° 31'	1-0	8.40 K ₂	1-1-1	" strong!
						<p>1/5 sec. focus: center of triangle</p> <p>3 PH loaded returned to refrigerator in red cardboard box - 4 plates in green box</p> <p>Heat on mirror</p>

Date Thurs July 15-16/48 D 0

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
14661	HD 153698	16 51.9	+27 29	1-12 1/2'	K10300	L1008	25.2	22 08	23 26	48
14662	HD 163079	17 49.2	+25 01	"	"	"	25.1	23 34	00 38	5 W
14663	HD 189087	19 53.2	+29 33	"	"	"	24.7	00 44	01 44	8 W
14664	HD 202679	20 59.8	+25 59	"	"	"	24.5	01 50	03 10	12 W
14665	HD 212280	22 18.0	+29 51	"	"	"	24.5	03 15	03 47	16 W
	Form 10 Test.			OTB.			24.5			

Saturday July 18/48 - Wm. De - Sup. pres 60 visitors shown M13 through
 74 telescopes and shown and Jupiter through solar telescope. Weather
 cloud gradually increasing while visitors present until completely
 overcast with Jupiter following by 22 30 hours E.S.T.

Focus 12.996

Clouds - haze at sunset slowly clearing

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp.	REMARKS
23:28	48 ^W	+27 25	0	8.58 M ₂	1-1-1	AG 25 Haze fine
23:33	05 W	+25 01	0	8.54 K ₀	1-1-1	" haze fine
01:08	08 W	+29 40	0	8.56 G ₅	1-1-1	" Mid haze appeared very strong
03:08	27 W	+26 10	0	8.82 K ₂	1-1-1	" fine
03:38	46 W	+30 06	0	7.81 G ₀	1-1-1	" fine
					6/5	fine

2 P.H. loaded - in red box in refrigerator

M. moon heat on

July 16/48

M.C.
+13S.C.
-59M.T.W.
+16.3S.T.W.
-0.3

Focus 12.996

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	comp.	REMARKS
	80W	+24° 58'	0	9.77 G ₀	1-1-1	AG 25
	OTB	61-				Cloud down 2335 due to impenetrable haze
						Next sunrise 1 PH loaded. plate needed
						<div style="display: flex; justify-content: space-around; align-items: center;"> July 19/48 m.c. +09 s.c. -53 m T.W. +14 s T.W. -0.3 </div>

Date Mon July 19-20, 1943 Wm - 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
14 667	HD 150 086	15 ^h 55.7	+29° 02'	T - 12	E 103a-0	55B	+26.1	20 46	21 42	40
14 668	HD 158 521	17 ^h 24.7	+26° 49'	"	"	"	+25.9	21 50	22 50	40
14 669	HD 170 951	18 ^h 27.0	+25° 06'	"	"	"	+25.9	23 00	00 23	40
14 670	A.G. 10644	19 53.2	29.40	"	"	"	25.9	00 44	01 42	40
14 671	H.D. 210234	22 04.5	-15 15	"	"	"	25.9	02 01	03 16	40
14 672	H.D. 218660	23 04.7	39 03	"	"	"	25.9	03 23	04 03	40
		<i>Spec. Sect</i>								

Focus 12.996

140

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
21.41	0 ^h 40	128° 56'	0	8.42 G5	1-1-1	AG25 Clouds in south; haze <i>low</i>
	1 ^h 01	+25° 45'	0+	8.70 G0	1-1-1 F5?	AG25 Looks v. blue for a G0; also a little bright Coord. & Field checked; all OK. <i>low</i>
	1 30.14	+25° 38'	1-	8.95 M0	1-1-1	AG25 Trouble with RAC clamp <i>fine</i>
	2 31.14	29 47	0	8.55 G0	1-1-1 AG 25	IN R.A. CLAMP - BUG WITH SPRING ATTACHED HAS BECOME UNSCREWED. WILL PROBABLY HAVE TO BE DETACHED FROM SPRING TO BE RETURNED. <i>slightly</i>
	0 44.14	45 28	0	7.10 G0	1-1-1 BINARY	HAZE; CLOUDS <i>burnt out</i>
	0 31.14	29 23	0	7.52 K0	1-1-1 A.G. 25	<i>too strong</i>
	O.T.B.				6/4	<i>some of stars slightly</i>

3 P.H. LOADED IN REFER.

H. on M.

July 21

MC	SC	MTW	STW
+7 ^s	-49 ^s	+15 ^s	-0.4 ^m

Focus 12.996
 Clearing after 2100.

142

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS	
235	141	+27 00	0	8.72 K ₀	1-1-1	
000	123 W	+29 55	1-0	8.35 G ₅	1-1-1	Clouds 2340-2355. Short power interruption at 0004 ⁷ field as plotted cloud. 0115-4
000	138 W	+ 5 51	0	8.5 B _{5me}	1-1-1	m.w.c. 380 D.T. FAILED. DRIER SHOULD BE CHANGED.
		O.T.B.		6/4		delayed start of exp. due to clouds but clouds persisted

3 P.H. ... + 16
 H. on M.

July 24 1944

MC	SC	MTW	STW
+1	-46°	+19°	-.4"

143

Date *Sat July 21st 1948* H-G. / 0 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
14676	HD 168956	18 17.3	+26 29	1-12	E 103 _a	^{det} 100 g	+21.1	21 42	22 52	66'
14677	HD 169245	18 18.7	+26 10	"	"	"	+21.0	22 39	23 45	1 W
14678	AG 10753	19 57.9	+29 37	"	"	"	21.0	23 37	01 05	51 W
14679	AG 11990	20 35.7	+28 53	"	"	"	21.0	01 10	02 24	3 W
14680	HD 212567	22 20.2	+28 11	"	"	"	20.8	02 29	03 23	1 W
14681	HD 219736	23 13.1	+29 54	"	"	"	20.7	03 27	03 55	1 W
		Focus Test					20.7			
	<p>about 80 visitors were shown to Cor Bor and M 13 through the 74" telescope and Jupiter through horizontal telescope and " on lawn.</p>									

Focus 12.995

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp	REMARKS
01:06	0.06 W	+25°40'	1	8.60 G ₀	1-1	AG 25
01:18	1.18 W	+26°12'	1	8.91 G ₀	1-1-1	AG 25 too strong! industrial part of observing watch
01:57	1.57 W	+29°44'	1	8.97 G ₀	1-1-1	AG 25 too strong stopped for about 2 hours then
02:20	2.20 W	+29°03'	1-0	8.95 G ₀	1-1-1	AG 25 too strong started again. - Must be correct.
02:55	2.55 W	+28°24'	1	8.70 K ₀	1-1-1	AG 25 too strong
03:34	3.34 W	+30°10'	1-2	8.15 K ₀	1-1-1	AG 25 too strong Few thin scattered clouds.
			OTB		6/4	

1 P.H. loaded, +8 in refrigerator
Heat on mirror.

Sunday, to visit a school in the
field at about 10:00 AM and
to come to the field again at
about 12:00 PM.

July 26/48

MTW -5°
STW 0.0

Focus 12.996

146

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
21 27	W 0 50	29 49	2	8.78 G5	1-1-1	⑤ Drive clock 24 rates
21 37	W 2 34	29 13	2-1-2	8.84 K2	1-1-1	⑥ clouds 21 55-2300. Then partly cloudy.
21 43	W 0 43	27 36	3	8.56 G5	1-1-1	⑦ AG 25
21 48	W 0 25	26 31	2-3	8.86 K0	1-1-1	AG 25
21 55	W 0 59	26 27	3	8.77 K0	1-1-1	AG 25
22 00	W 0 27	25 23	3	8.93 K0	1-1-1	in field on PL NO. 14648 intend star plot
22 07	W 0 40	29 28	3	8.91 G0	1-1-1	AG 25
22 11	W 1 07	29 28	3	8.61 K	1-1-1	AG 25
22 15	W 0 41	30 10	3	8.41 G5	1-1-1	AG 25 high vel star. guiding
	OTB					35 Position unclear. 4 PH loaded opened box contains 8

149

Date Wed July 28 - 1918 Wm - 0 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
14692	HD 150 889	16 ^h 33 ^m .3	126° 0'	I-12	I-13-D	⁵⁶⁵ 038	+25.0	20 39	21 30	
14693	HD 166 730	18 ^h 06 ^m .9	+27° 57'	"	"	"	+25.1	21 45	22 57	
14694	HD 182 218	19 ^h 18 ^m .5	+26° 53'	"	"	"	+25.0	23 05	00 12	
14695	HD 193 011	20 12.7	+29 48	"	"	"	+25.0	00 16	01 24	
14696	HD 205 287	21 29.2	+27 10	"	"	"	+25.0	01 28	02 31	
14697	HD 215 732	22 42.2	+29 22	"	"	"	+25.0	02 38	03 48	
14698	HD 224 895	23 56.5	+27 53	"	"	"	+25.0	03 52	04 52	
"	Focus Test.						25.0			

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS								
	1 ^u 07	+25°56'	0+	8.57 K0	1-1-1	AG25 ⁺ strong								
	0 ^u 55	+27°58'	1-	8.89 K0	1-1-1	" fine								
	01 W	+27°24'	1	8.91 K0	1-1-1	" R. CIRCLES SLIPPED? too strong								
	01 W	+29 57	1	8.73 K ₂	1-1-1	" too strong								
	01 W	+27 22	1	8.57 K5	1-1-1	" fine								
	01 W	+29 37	1-	8.93 K ₂	1-1-1	" strong								
	01 W	+28 07	2	7.75 K ₀	1-1-1	" too strong								
		OTB			6/4	focus ok.								
						1 P.H loaded +4 in refrigerator								
						<table style="margin-left: auto; margin-right: auto;"> <tr> <td>MC</td> <td>SC</td> <td>MTW</td> <td>STW</td> </tr> <tr> <td>-7^s</td> <td>-37^s</td> <td>-8^s</td> <td>+0.1^m</td> </tr> </table>	MC	SC	MTW	STW	-7 ^s	-37 ^s	-8 ^s	+0.1 ^m
MC	SC	MTW	STW											
-7 ^s	-37 ^s	-8 ^s	+0.1 ^m											

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
	0°51	+25°11'	1	8.64 K0	1-1-1 AG25 <i>to center</i>
	1°03	+26°42'	1	8.96 K0	1-1-1 AG25
	1°26	+29°40'	0+	8.98 K2	1-1-1 AG25
	1°04	+27°58'	1-0	8.95 M0	1-1-1 AG25
	1°05	+26.00	0	8.91 G5	1-1-1 AG25
	1°03	+28.18	0-1	8.91 K0	1-1-1 AG25 <i>clouds 2015-20-2</i> <i>(numbered 14-140)</i>
	0°55	+26.05	0-1	8.84 K5	1-1-1 AG25 <i>to center</i>
					0-13-615
					1 PH loaded opened box contains 8
					Heat on mirror

Date Sat. July 21 - Bangl. War - D - 3 - De Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Error Angle End
14706	AG 8656	12 01.9	+25 46	1-12"	E10700	Set .008"	24.6	22 12	23 06	4
14707	AG 9486	12 57.3	+26 15	"	"	"	24.3	23 10	00 10	1
14708	AG 10213	20 06	+26 12	"	"	"	23.8	00 16	01 10	2
14709	AG 12398	21 17.0	+29 51	"	"	"	23.8	01 18	02 16	3
14710	AG 12385	21 16.5	+29 42	"	"	"	23.8	02 18	03 20	4
14711	AG 14190	23 33.8	+25 23	"	"	"	23.6	03 25	04 15	5
	Focus TEST						23.6			

150 visitors observed 1917 at here 154
with 7 1/2"

5 with 8 1/2" telescope

Focus 12.996

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
27.0	1 27 W	+25 40	0.1	8.5 G ⁷	1-1-1 AG 25
28.0	1 28 W	+26 18	1	8.98 K ₀	1-1-1 " comp. too strong
01.10	1 29 W	+26 19	1-2	8.90 G ₃	1-1-1 "
02.10	1 18 W	+30 03	1-2	8.98 K ₀	1-1-1 "
03.20	1 23 W	+29 54	1	8.86 K ₀	1-1-1 " Upper electrode found to be loose at time of second comparison spectrum. Tightened.
04.5	1 01 W	+25 39	1-2	8.63 K ₀	1-1-1 "
			O.T.B		6/4
					3 P.H. Loaded. Fresh box required.
					Mirror heat on

Date Sunday Aug. 1-2/48 No/De 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	
14712	AG. 7973	16 59.0	+25 00	1-12"	E-103a:0	^{slit} .008	+24.4	20 35	21 51	15W	
14713	H.D. 164923	17 58.4	+24 59	"	"	"	+24.2	21 54	23 00	25W	
14714	" 176695	18 56.4	+28 33	"	"	"	+24.0	23 03	00 03	30W	
14715	" 187565	19 45.5	+29 08	"	"	"	+23.9	00 09	01 21	59W	
14716	" 197227	20 37.3	+28 58	"	"	"	+23.6	01 27	02 35	22W	
14717	AG 13862	22 59.4	+28 17	"	"	"	+23.5	02 41	03 31	55W	
14718	HD 223424	23 44.3	+26 29	"	"	"	+23.5	03 35	04 21	10W	
		Focus TEST						+23.4			

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp.	REMARKS
						focus left at 12.996
21 15	01 15W	+24 56	0-1	8.85 K5	1-1-1	AG 25 /azy at sunset
23 00	01 25W	+25 00	0-1	8.78 K2	1-1-1	" double - south preceding
00 15	01 30W	+28 35	0-1	8.69 K0	1-1-1	"
01 30	1 59W	+29 14	0-1	8.83 G0	1-1-1	"
02 35	2 22W	+29 08	0-1	8.82 G5	1-1-1	"
0 3	0 55W	+28 33	1	8.60 G0	1-1-1	" image faint
04 2	1 00W	+26 45	1	8.50 K0	1-1-1	"
			O.T.B			6/4
						4 P.H. Loaded + 4 in opened Box.

157

Date Monday Aug 2-3/48 De / Ga 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
14719	HD 151369	16 41.9	+26 13	I-12	E-103a0	^{slit} .008	+22.0	20 32	21 32	10 W
14720	AG 9585	19 02.5	+28 34	"	"	"	+21.9	22 50	²³ 22 42	06 W
14721	HD 190787	20 01.6	+27 51	"	"	"	+21.9	²³ 22 47	00 37	02 W
14722	" 190885	20 02.0	+27 51	"	"	"	+22.0	00 39	01 31	56 W
14723	AG 13070	21 54.7	+28 10	"	"	"	+22.0	01 35	02 29	02 W
14724	AG 13863	22 59.4	+27 16	"	"	"	+22.0	02 34	0 29	52 W
	<i>Time test</i>						+22.0			

Focus LEFT AT 12.996

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
2 20	1 16W	+26 08	1-2	8.84 G _s	1-1-1 AG 25 Increasing cloudiness. Field obscured by 21 32. fine
2 42	1 06W	+28 36	1-2	8.90 G _o	1-1-1 " Observing resumed at 2250 fine
00 57	1 02W	+27 59	1-2	8.95 M _o	1-1-1 fine
0 31	1 56W	+27 58	1-2	8.96 K _s	1-1-1 haze from 0100 for guiding good
03 29	1 02W	+28 23	2	8.89 G _o	1-1-1 still haze fine
0 30	0 52W	+27 30	1-2	8.93 G _s	1-1- (3rd comp omitted) slide closed at 0329 but clouds obscured good star at about 0315
	OTB			6/5	clouded out closed down 0320 from auto read
					Heat on mirror 2 PH loaded +0
					Aug 3/18 m.c. -14 ^s s.c. -28 ^s m.t.w. -11 ^s s.t.w. m.o. 0.0

* Developed

Date Tuesday Aug 3-4/48 S-H-L-No Julian Day

Plate No.	Object	R.A. 1900 50	Declination 1900 50	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Star Angle End
14725	NGC 6218	16 44.6	-01 52	Newt.	E-103-0	-	-	21 44	21 54	42 W
14726 *	" 6093	16 14.1	-22 52	"	"	E 103 E	-	22 03	22 09	27 W
14727	" 6353	17 16.2	-18 28	"	"	E 103 E	-	22 12	22 20	30 W
14728	J.C. 1276	18 08.4	-07 15	"	"	E 103 E	-	22 25	22 45	10 W
14729	NGC. 6838	19 51.3	18 38	"	"	E 103 E	-	22 59	23 03	16 E
14730	" "	" "	" "	"	"	-	-	23 08	23 12	6 E
14731 *	" 6626	18 21.5	-24 54	"	"	-	-	23 19	23 21	2 W
14732	" 6626	18 21.5	-24 54	"	"	-	-	23 22	23 28	2 W
14733	" 6544	18 04.3	-25 01	"	"	-	-	23 30	23 50	2 W
14734	" 6656	18 33.3	-23 58	"	"	-	-	23 53	23 57	5 W
14735	" 6934	20 31.7	+07 14	"	"	-	-	00 08	00 20	1 W
14736	" 6838	19 51.3	18 38	"	"	-	-	00 25	00 29	1 W
14737	" 6779	19 14.6	30 05	"	"	-	-	00 35	00 39	27 W
14738	6981	20 50.7	-12 44	"	"	-	-	00 45	01 01	1 W
14739	7089	21 30.9	-01 03	"	"	-	-	01 04	01 06	1 W
14740	6864	20 03.2	-22 04	"	"	-	-	01 09	01 25	1 W

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
21 54	1 42 W		"moderate"		focussed on η Serp. clouds, unguided no star
22 09	2 27 W				light cloud.
22 20	1 36 W				pencil slipped while numbering this plate
22 45	1 10 W				light clouds, more clouds.
22 50	0 16 E		good		
23 00	0 06 E				
23 20	1 32 W				
23 30	39 W		poor		
23 50	2 19 W				
23 57	1 56 W				focussed on ϵ Delph.
00 20	3 21 W				No guiding
00 50	1 11 W				No "
01 08 39	57 W				
01 01	74 W				
01 06	1 07 W				
01 20	55 W				20 sec trail in S

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
01 33	2 03 W				
01 4	2 01 W				
01 5	1 42 W				focused on E. Depth.
02 9	2 21 W				
02 23	3 10 W				
02 47	1 59 W				Haye
02 4	1 44 W				{ Sky Drayn
02 12	2 15 W				
02 18	2 46 W				20 sec trail in S

Date Friday Aug 6-7/48 S-L-No Julian Day

Plate No.	Object	R.A. 1900 50	Declination 1900 5.0	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Star Angle End
14750	N.G.C. 5904	15 16.0	+02 16	Newt.	E-103 ₂₀	—	—	20 49	20 51	39W
14751	" 6218	16 44.6	-01 52	"	"	—	—	20 54	20 56	35W
14752	" 6254	16 54.5	-04 02	"	"	-	-	20 58	21 00	30W
14753	" 6333	17 16.2	-18 28	"	"	-	-	21 03	21 09	36W
14754	" 6356	17 20.7	-17 46	"	"	-	-	21 12	21 24	47W
14755	" 6093	16 14.1	-22 52	"	"	-	-	21 27	21 31	30W
14756	" 6402	17 35.0	-03 13	"	"	-	—	21 36	21 48	35W
14757	" 6235	16 50.4	-22 06	"	"	—	—	21 51 ₂₀	22 11	30W
14758	I.C. 1276	18 08.4	-07 15	"	"	—	—	22 15	22 31	30W
14759	{ N.G.C. 6838	19 51.3	18 38	"	"	-	-	22 34 ₁₂	22 37 ₅	30W
	{ Kapteyn 89	21 10.4	15 22	"	"	-	-	22 40 ₃₁	22 43 ₂₄	30W
14760	{ Kapteyn 89	"	"	"	"	-	-	22 45 ₂₂	22 53	30W
	{ N.G.C. 6934	20 31.7	07 14	"	"	-	-	22 56	23 04	30W
14761	" 6626	18 21.5	-24 54	"	"	-	-	23 08 ₃₀	23 10 ₂₀	30W
14762	" 6656	18 33.3	-23 58	"	"	-	-	23 13 ₃₀	23 15 ₃	30W
14763	" 6333	17 16.2	-18 28	"	"	-	-	23 19	23 27	30W

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
					focused on δ Oph.
20 5	02 19 W				
20 56	0 55 W		Fair		
21 00	0 50 W				
21 09	0 36 W				
21 24	0 47 W				20 sec. dec. trail.
21 3	2 01 W				← focused on β Oph.
21 40	0 58 W				
22 1	2 05 W				
22 2	1 07 W				
22 5	0 30 E				
22 4					
22 52					
23 0	0 43 E				
23 1					
23 2	1 27 W				
23 5	2 15 W				

Date Friday Aug. 6-7 / 48 S-No-L Julian Day
(cont'd)

Plate No.	Object	R.A. 1900 ₅₀	Declination 1900 ₅₀	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Star Angle East
14764	NGC 6402	17 35.0	-03 13	Newt.	E-103a-0	-	-	23 32	23 44	33 W
14765	" 6981	20 50.7	-12 44	"	"	-	-	23 49 ₅₀	00 01 ₅₀	5 E
	Kapteyn 136	20 12.8	-15 01	"	"	-	-	00 06 ₁₅	00 18 ₁₅	
14766	NGC 6717	18 52.1	-22 47	"	"	-	-	00 22	00 38	3 W
14767	" 6779	19 14.6	+30 05	"	"	-	-	00 46 ₃₀	00 50 ₃₀	2 W
14768	" 6838	19 51.3	+18 38	"	"	-	-	00 57 ₃₀	01 00 ₃₀	2 W
14769	" 6934	20 31.7	+07 14	"	"	-	-	01 04	01 12	3 W
14770	" 7089	21 30.9	-01 03	"	"	-	-	01 15	01 16	2 W
14771	" 6864	20 03.2	-22 04	"	"	-	-	01 20	01 36	2 W
14772	" 6981	20 50.7	-12 44	"	"	-	-	01 40	01 54	1 W
14773	" 7099	21 37.5	-23 25	"	"	-	-	02 01 ₁₅	02 07 ₁₅	1 W
14774	" 7492	23 05.7	-15 54	"	"	-	-	02 10 ₁₅	02 22 ₁₅	1 W
	Kapteyn 139	23 16.6	-14 44					02 25 ₂₀	02 37	5 W
14775	7492	23 05.7	-15 54	"	"	-	-	02 43	03 03	1 W
14776	7099	21 37.5	-23 25	"	"	-	-	03 08	03 14	2 W
14777	6838	19 51.3	+18 38	"	"	-	-	03 18 ₃₀	03 21 ₃₀	5 W

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
23 44	2 53 W				Refocussed on B Oph.
00 00	0 05 E				No Guiding
00 15					
00 28	2 31 W				
00 50	2 20 W				
01 10	1 54 W				
01 20	1 25 W				
01 36	0 30 W				
01 50	2 18 W				Some haze
02 04	48 W				"
02 17	1 15 W				Dec trail ← Refocussed on B Aquarii
02 20	0 01 W				
02 37	0 05 W				
02 50	0 42 W				Dec trail No Guiding Trail forward & backward
03 00	2 21 W				
03 00	1 14 W				

Ending Time
E.S.T.Hour Angle
End

Declination

Seeing

Ptg. Mag.

REMARKS

03 45

1 25 W

About 150 visitors. Showed M13, King neb. 172
with 74", H, C, β lgg with 4" + 3". 5" w/s.

Focus set 12.990

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	comp	REMARKS
22 35	0 26 W	+26 18	2+	8.96 G ₅	1-1-1	AG 25
23 2	0 45 W	+25 37	2+	8.98 K ₀	1-1-1	AG 25
23 54	1 17 W	+27 54	2+	G ₅	1-1-1	AG 25 brighter and western component of double stars mag pty. not given. exposed as 8.70
0 6	1 47 W	+28 31	2	8.92 K ₀	1-1-1	AG 25
01 32	0 58 W	+25 49	2	8.97 K ₅	1-1-1	AG 25
02 1	1 09 W	+25 33	2	8.90 K ₂	1-1-1	AG 25
23 41	1 25 W	+30 10	2	8.98 G ₅	1-1-1	AG 25 Clouded from 3:15 until 3:30
04 2	1 46 W	+25 17	1-2	8.51 K ₀	1-1-1	AG 25 Image partly obscured from 4:12 on.
		OTB.			6/4	
						4 P.H. loaded, None in box.
						Heat on M mirror.
						23 30 - spectacularly bright band of aurora long on to horizon at about Dec +15. -G ₂
						Aurora Borealis "magnificent" all night - Covered 2/3 of sky most time - 0

Focus set at -12.990





Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
21 25	1 02 W	+29 37	1	8.72 G ₀	1-1-1 AG 25
22 4	0 49 W	+27 28	1-2	8.93 K ₀	1-1-1 AG 25
23 06	0 53 W	+29 07	2	8.99 G ₀	1-1-1 AG 25
23 54	0 53 W	+29 51	2+	8.98 K ₂	1-1-1 AG 25
00 40	0 53 W	+26 56	2	8.96 K ₀	1-1-1 AG 25
01 10	0 51 W	+30 04	3	8.90 K ₀	1-1-1 AG 25
01 52	0 39 W	+26 45	2-3	8.96 G ₅	1-1-1 AG 25
02 5	0 06 W	+29 05	2	8.93 G ₀	1-1-1 AG 25 {plate box for white relay}
03 12	0 20 W	+26 54	2-3	8.97 K ₂	1-1-1 AG 25 {sparked in dark room}
3 45	0 13 W	+30 57	3	8.90 G ₅	1-1-1 AG 25
04 10	0 20 W	+26 49	3	8.68 G ₅	1-1-1 AG 25
04 50	0 39 W	+30 04	3	8.47 K ₀	1-1-1 AG 25
					OTB 6/5
					4PH load +0
					rest in mirror

Date Monday Aug 9-10, 1948 Hd. Ba. De Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	P _h
14799	HD 155878 W.W.C. 292	17 09.2	+28 04	I-12	E103a0	008	+23.0	20 22	21 22	1
14800	HD 169157	18 17.3	+25 01	I-12	E103a0	008	+23.0	21 33	21 47	2
14801	HD 172311	18 34.9	+28 13	I-12	E103a0	008	+22.9	21 53	22 53	3
14802	HD 198550	20 2.2	+29 01	I-12	E103a0	008	+22.9	23 02	23 06	4
14803	AG 12834	21 37.6	+26 04	I-12	E103a0	008	+22.7	23 54	00 44	7
14804	HD 207470	21 44.1	+28 15	I-12	E103a-0	008	+22.5	00 48	01 30	7
14805	AG 14232	23 38.8	+30 11	"	"	"	+22.4	01 37	02 29	7
14806	HD 224455	23 53.0	+29 24	"	"	"	+22.4	02 33	03 17	9
14807	AG 63	00 08.3	+26 30	"	"	"	+22.4	03 22	03 58	9
14808	HD 4963	00 46.5	+27 13	"	"	"	+22.4	04 01	04 35	9
			Focus Test				+22.4			

Form 12990

176

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
21:22	107	28 00	0	8.82 G5	1, 1, 1 
21:47	1024	25 02	0	6.9 B5e	1, 1, 1 Be Prog.
22:53	118	23 15	1	8.91 K0	1, 1, 1 
23:55		27 12	2	8.82 K0	1, 1, 1 
00:01	0 01E	+26 15	1-2	8.89 G5	1-1-1 
01:01	41W	+28 28	2	8.79 K0	1-1-1 AG 25 Aurora
02:01	0 14E	+30 28	1-2	8.93 G0	1-1-1 " Aurora very active
03:07	0 19W	+29 41	2	8.89 K0	1-1-1 "
03:51	0 44W	+26 45	2-3	8.79 K0	1-1-1 "
04:35	0 43N	+27 29	2-3	8.62 G5	1-1-1 "
			O.T.B		6/4
					3 P.H. Loaded. +0
					Heat on Mirror.
					MC SC MTW STW
					-26 ^s -13 ^s -.1 ^m -.1 ^m

177

Date Friday Aug 13-14/48 L - Ga-De 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
14809	HD 184150	14 29.0	+29 59	1-12	E 103 ₀	^{2x} .008	+22.0	22 02	22 38	3 SW
14810	" 150749	20 01.4	29 34	"	"	"	21.9	22 42	23 42	4 W
14811	A.G. 12 135	21 02.6	30 03	"	"	"	21.9	23 46	00 36	1 W
14812	HD 208641	21 52.6	+27 32	"	"	"	22.1	00 39	01 45	1 W
14813	HD 217351 G 3821	22 54.8	+29 33	"	"	"	21.9	01 49	02 31	7 W
14814	AG 14185	23 32.3	25 13	"	"	"	21.9	02 35	03 25	1 W
14815	AG 366	00 32.6	+25 18	"	"	"	22.0	03 30	04 10	1 W
14816	HD 11130	01 44.4	+29 00	"	"	"	22.0	04 13	04 39	1 W
"	HD 217351						22.0			

Focus - 12.990

178

About 90 visitors from Guelph... showed
ring nebula, globular cluster in there, with 74"
D in 5"

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp	REMARKS
22 38	19 W	30 04	1	8.44 K ₂	1-1-1	A.G. 25
23 42	51 W	29 44	1	8.86 K ₀	1-1-1	" Some haze
00 00	44 W	30 15	1-2	8.91 G ₅	1-1-1	"
01 00	03 W	27 44	1-2	8.89 G ₅	1-1-1	" Clouds - 0055 - 0110
02 30	0 47 N	+29 48	1-2	8.72 ^{B.4} A ₂ G ₅	1-1-1	"
03 50	03 W	+25 30	1-2	8.89 G ₅	1-1-1	"
04 00	1 11 N	+25 34	2	8.99 G ₅	1-1-1	" Dome turning, relay's stuck etc
04 50	05 W	+29 12	2-3	8.54 G ₅	1-1-1	
						OTB 6/4 ✓
						3 PH Loaded +4
						Aug 14 MC SC MTW STW -30 ^s -9 ^s -1 ^m -2 ^m
						De took plate 14813 1980 - white G ₂ obs. by P. J. ...

Focus 12.990

About 200 visitors. Showed 180
 m13 with 74" & with 5" lx with
 4" Ad. Ba, O.

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp	REMARKS
22:43	05 51 W	+28 15	2	8.93 G ₀	1-1-1	AG. 25
22:58	10 40 W	+27 00	2-3	8.91 K ₅	1-1-1	"
	10 45 W	+26 13	2	8.79 K ₀	1-1-1	"
00:03	20 40 W	+28 20	2	8.89 K ₂	1-1-1	"
01:00	00 55 W	+29 42	2	8.98 K ₅	1-1-1	" looks ^{wrong star - (map labeled incorrectly)} very faint. Right hand of lion in photo is westerly
01:11	01 35 W	+25 23	2-3	8.93 G ₀	1-1-1	"
01:14	01 55 W	+26 15	2-3	8.51 G ₅	1-1-1	"
01:23	02 10 W	+26 13	2-3	8.63 G ₅	1-1-1	"
01:52	02 32 W	+26 28	2-3	8.89 G ₅	1-1-1	"
02:00	02 40 W	+26 01	3	8.99 K ₀	1-1-1	"
					OT13 6/4	
						Heat on mirror. HPH loaded +5

Date Sunday Aug 15-16/45 De/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.	Star Angle End
14827	AG 9109	18 35.5	+26 06	I-12	E103a-0	Set .008	+25.3	20 37	21 23	16
14828	HD 174104	18 43.8	+28 37	"	"	"	+25.3	21 28	22 06	11
14829	AG 9950	19 21.3	+26 09	"	"	"	+25.3	22 10	22 38	-5
14830	AG 10077	19 28.3	+25 13	"	"	"	+25.2	22 52	23 36	-4
14831	HD 198526	20 45.8	+28 37	"	"	"	+25.2	23 40	00 26	3
14832	" 208457	21 51.2	25 57	"	"	"	+25.2	00 31	01 13	-2
14833	AG. 13568	22 31.2	29 35	"	"	"	+25.2	01 18	02 12	2
14834	HD 219538	23 11.4	30 07	"	"	"	+25.2	02 16	02 58	11
14835	" 2854	00 28.6	27 06	"	"	"	+25.2	03 08	03 54	4
14836	" 11650	01 49.2	27 20	"	"	"	+25.2	04 02	04 34	11
	Focus Just					O.T.B.				

Focus 12.990

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS				
2 23	06W	+26 09	1-2	8.86 G ₀	1-1-1	AG 25 too strong			
2 06	41W	+28 40	2	8.72 G ₅	1-1-1	" "			
22 38	0 45W	+26 15	2-3	8.84 K ₀	1-1-1	" "			
23 3	1 26W	+25 19	2-3	8.99 G ₀	1-1-1	semitometer spots spoiled! strong			
0 20	0 53W	+28 49	2-1	8.88 K ₀	1-1-1	" strong			
01 15	0 40W	26 09	2	8.86 G ₅	1-1-1	" too strong			
02 2	1 00W	29 49	2	8.95 G ₀	1-1-1	" "			
02 13	1 05W	30 22	2	8.82 K ₀	1-1-1	" "			
03 6	0 50W	27 22	2	8.92 G ₅	1-1-1	" too strong + Star not circled on field			
04 3	0 35W	27 35	2	8.49 G ₅	1-1-1	" too strong			
					6/4	focus - center of terminal			
					MC	SC	MTW	STW	
					Aug 17	-33 ^s	-5 ^s	0 ^m	0 ^m

Date Monday Aug 16-17/1948 0/60 Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Bear Angle End
14837	HD 154183	16 58.8	+25 44	3-12	F-103a0	^{SJT} .008	+26.3	20 10	21 06	W
14838	HD 180316	19 11.0	+27 46	"	"	"	26.3	21 12.2	21 20.1	E
14839	HD 171164	18 28.1	+28 48	"	"	"	26.2	21 25	22 21	SW
14840	HD 186223	19 38.0	+26 57	"	"	"	26.2	22 24	23 10	W
14841	HD 195834	20 28.6	+28 43	"	"	"	26.2	23 13	23 59	W
14842	HD 202365	21 10.2	+27 45	"	"	"	26.1	00 09	00 55	W
14843	HD 211407	22 11.7	+25 45	"	"	"	26.1	00 58	01 55	W
✓ 14844	HD 221170	23 24.6	+29 53	"	"	"	26.1	02 01	02 51	W
14845	HD 1996	00 19.1	+25 51	"	"	"	26.1	02 34	03 14	W
14846	HD 5650	00 53.1	+26 15	"	"	"	26.0	03 20	03 58	W
14847	HD 7269	01 26.1	+30 06	"	"	"	26.0	03 59	04 45	W
	<i>Empty tank</i>						26.0			

Cloudy, clearing just at dusk Hozy. ↓ 86

Focus 12.990

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp.	REMARKS
21.4	13 ^m W	+30 07	1+	8.69 K ₂	1-1-1	AG 2 too strong
21.5	13 ^m W	+27 52	2-	6.51 B ₅	1-1-1	BINARY E.M.N.? very strong
22.0	13 ^m W	+29 01	2-	8.33 G ₀	1-1-1	Haze faint companion in visitors eyepiece too strong
23.0	13 ^m W	+26 57	2-	8.84 G ₅	1-1-1	AG.25 too strong
23.4	13 ^m W	+26 21	2	8.86 K ₂	1-1-1	" fine
23.5	13 ^m W	29 20	2	8.91 M ₀	1-1-1	strong
24.0	13 ^m W	29 41	2	8.89 K ₀	1-1-1	too strong
24.4	259 W	35 15	2	8.70 K ₀	1-	fine
	O.T.B.				6/4	focus O.K.
						1 P.H. LOADED + +
						NEW BOX OF PLATES NEEDED.
						Aug 20 MC 50 MTW 5TW -38° +2° .0 ^m .0 ^m

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp.	REMARKS
						focus 12.990
20.4	1 02 W	+26 03	2	8.84 K ₀	1-1-1	A.G. 25 hazy fine
21.33	1 49 W	+29 32	2±	8.82 K ₀	1-1-1	A.G. 25 " fine
22.53	2 20 W	+27 51	2	6.51 B ₅	1-1-1	Binary strong
23.27	2 11 W	+26 29	2-3	8.96 K ₂	1-1-1	A.G. 25 weak
23.58	2 31 W	+26 22	3	8.93 K₀	1-1-1	A.G. 25 (wrong star had been marked on chart) image satisfactory faint
24.50	3 57 W	+25 22	3-	8.85 K ₀	1-1-1	AG 25 fine
25.30	3 57 W	-29 23	3	8.89 K ₂	1-1-1	AG 25 strong
26.27	3 41 W	28 55	3	8.83 G ₀	1-1-1	AG 25 very strong
27.33	3 47 W	+25 31	3	8.86 K ₂	1-1-1	AG 25 strong
28.21	3 32 W	25 21	3+	8.79 M ₂	1-1-1	AG 25 too strong
29.10	3 23 W	27 40	3-	8.97 G ₅	1-1-1	AG 25 too strong
29.50	3 43 W	+30 02	3+	8.82 G ₀	1-1-1	AG 25 too strong
30.24	3 32 W	-25 38	3+	8.96 K ₀	1-1-1	AG 25 guiding strong
30.56	3 19 E	+22 45	3	6.56 A ₂	1-1-1	Binary strong
		O.T. B			6/5	2 P.H. loaded + 0. New box of plates focus c.k. required.

Date *Sat Aug 21-22, 1948 Hd, L60/W.* Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Star Angle Ind
14870.	AG 9659	19 06.6	28 11	I-12E	E-10310	set .008	25.8	22 10	22 44	W
14871	HD 180316	19 11.0	27 46	"	"	"	26.0	22 49	23 01	W
14872	AG 11546	20 33.4	29 50	"	"	"	26.0	23 04	23 34	W
14873	AG 12424 BD+30°447	21 18.3	30 16	"	"	"	26.0	23 37	00 07	W
14874	209994	22 02.2	27 51	"	"	"	25.8	00 09	00 49	W
14875	AG 13568	22 31.2	29 35	"	"	"	25.9	00 52	01 41	W
14876	223231	23 42.6	26 37	"	"	"	25.9	01 48	02 30	W
14877	219000	20.8	28 23	"	"	"	25.9	02 33	03 21	W
14878	AG 71001	05.5	25 45	"	"	"	25.9	03 24	04 46	W
<i>Focus Test</i>										

about 225 visitors showed M13 190
with 74", 4, & with 4" + 5"

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
22:21	21 W	28 14	1-2	8.93 G ₀	1-1-1 AG25 too strong
22:31	32 W	+27 51	2-3	6.51 B ₅	1-1-1 Binary not too strong
23:24	45 W	+30 00	2	8.73 G ₀	1-1-1 AG25 very strong
00:07	30 W	+30 28	2-3	8.91 K ₀	1-1-1 " weak
00:22	29 W	28 04	2-3	8.93 K ₀	1-1-1 " } both numbered
00:35	29 W	29 50	2-3	8.95 G ₀	1-1-1 " } 14875
01:20	030 W	26 53	2-3	8.97 K ₂	1-1-1 " too strong
01:30	043 W	28 39	2-3	8.93 K ₅	1-1-1 " fine
01:44	130 W			8.99 K ₀	" clouds for nearly all of exp. fine
		0 T B		6/4	focus OK
					3 P.H. LOADED +

Date Sun Aug 22-23, 1948 0 / De Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Star Angle End
14879	HD 160678	17 36.2	+29 18	I-12	E-1030-0	set 008	+27.3	19 51	20 31	1
14880	HD 169 573	18 20.2	+26 17	"	"	"	+27.3	20 34	21 02	2
14881	HD 175 036	18 48.4	+26 24	"	"	"	+27.2	21 05	21 33	3
14882	HD 182 218	19 18.5	+26 58	"	"	"	+27.2	21 36	22 10	4
14883	HD 188 015	19 48.0	+27 51	"	"	"	+27.2	22 15	22 37	5
14884	AG 10874	20 02.0	+28 50	"	"	"	+27.2	22 42	23 04	6
14885	HD 197 440	20 52.1	+27 07	"	"	"	+27.2	23 07	23 27	7
14886	HD 201 860	21 07.2	+25 55	"	"	"	+27.2	23 31	23 51	8
14887	HD 204 934	21 26.8	+27 56	"	"	"	+27.2	23 55	00 15	9
14888	HD 209457	21 58.4	+29 12	"	"	"	+27.0	00 23	00 47	10
14889	" 210789	22 07.7	+24 59	"	"	"	+27.0	00 52	01 10	11
14890	" 217576	22 56.6	+28 10	"	"	"	+27.0	01 14	01 30	12
14891	" 217714	22 57.8	+28 52	"	"	"	+27.0	01 47	02 27	13
14892	" 2084	00 20.0	+29 33	"	"	"	+27.0	02 31	02 53	14
14893	" 3766	00 35.3	+29 28	"	"	"	+27.0	02 59	03 19	15
14894	" 5411	00 50.8	+28 39	"	"	"	+27.0	03 24	03 46	16

Focus - 12.990

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
2:2	0 40W	+29 15	1-2	8.72 K ₀	1-1-1	hazy. too strong
1:32	0 27W	+26 18	2+3	8.84 K ₀	1-1-1	fine
1:2	0 30W	+26 28	2-3	8.77 G ₀	1-1-1	strong
1:2	0 37W	+27 03	2+	8.91 K ₀	1-1-1	strong
1:27	0 35W	+27 57.5	3	8.96 G ₅	1-1-1	too strong
1:3	0 46W	+28 44	3+	8.97 G ₅	1-1-1	{Declination doesn't agree with given value, fine. it is correct star. field indicated
1:3	0 21W	+27 18	3+	8.91 K ₀	1-1-1	fine
1:3	0 30W	+26 06	3+	8.92 G ₅	1-1-1	very strong
1:5	0 34W	+28 08	3+	8.89 K ₀	1-1-1	strong
02:2	0 35W	+29 26	3	8.99 K ₅	1-1-1	scattered AC clouds 0028 to 0040 strong
01:1	0 48W	+25 13	3	8.75 K ₀	1-1-1	guiding very strong
1:2	0 20W	+28 25	3	8.47 K ₀	1-1-1	fine Fuse blew on Dec guiding circuit.
02:27	1 16W	+29 06	3-2	8.89 K ₀	1-1-1	+ image very faint scattered AC cloud two weak
1:6:55	0 20W	+29 49	3	8.86 G ₅	1-1-1	strong
02:11	0 30W	+29 43	3	8.91 G ₀	1-1-1	too strong
03:4	0 42W	+28 33	3	8.93 K ₀	1-1-1	strong

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
04	00 36W	+27 15	3	8.89 K ₂	1-1-1 AG 25 guiding! good
04-76	00 55W	+29 01	3	8.95 G ₅	1-1-1 " too strong
0502	01 00W	+25 47	3	8.33 G ₅	1-1-1 " very strong
			O.T.B		6/4 focus - central to match 4 PM Loaded + 4.
					<div style="display: flex; justify-content: space-around; align-items: flex-start;"> <div style="text-align: center;"> m e. s -41 </div> <div style="text-align: center;"> s.e +08^s </div> <div style="text-align: center;"> m.t.w. +16^s </div> <div style="text-align: center;"> s.t.w. +0.1 </div> </div>

Date Monday Aug 23-24 / 48 No-W Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Scan Angle Ecl
14898	H.D. 209500	21 58.8	+29 17	I-12 1/2"	E-103-0	sl .008	+27.0°C	00 27	01 15	- 6w
14899	218610	23 04.3	26 23	"	"	"	27.1	01 18	02 00 <i>* gone</i>	1 6w
14900	598	00 05.3	28 06	"	"	"	27.1	02 03	03 17	2 6w
<i>Focus Test</i>										

scattered cirrus clouds, slowly clearing
around midnight.

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp.	REMARKS
01/13	1 06 W	+29 30	1-2	8.72 K ₅	1-1-1	focus 12.990
02 00 * 9:25	2 46 W	26 37	1-2	8.83 K ₀	1-1-1	
03 17	1 02 W	28 21	0-1	8.79 M ₂	1-1-1	Clouds for practically all of exp.
	O.T.B.				6/4	4 P.H. loaded + 2?

197

Date Tuesday Aug 24-25/1948 0-Gra/Gra=0 Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Star Angle End
14901	HD 167132	18 08.8	+25 37	T-12	E-10300	⁵² 008	+29.3	20 30	20 48	32W
14902	HD 186860	19 41.8	+30 00	"	"	"	+29.2	21 19	21 37	11E
14903	HD 187162	19 43.4	+28 14	"	"	"	+29.2	21 40		11W
14904	HD 187280	19 44.1	+28 04	"	"	"	+29.2	22 09	22 33	44W
14905	HD 191445	20 04.8	+28 24	"	"	"	+29.2	22 36	23 06	55W
14906	AG 12015	20 52.5	+26 51	"	"	"	+29.1	23 10	23 35	1W
14907	AG 12677	21 30.9	+27 34	"	"	"	+29.0	23 38	00 12	11W
14908	HD 212289	22 18.1	+30 15	"	"	"	+29.0	00 16	00 45	21W
14909	AG 13518	22 27.7	+25 04	"	"	"	+29.0	00 49	01 01	2W
14910	HD 213857	22 29.3	+29 14	"	"	"	+29.0	01 12	01 26	2W
14911	HD 217230	22 54.2	+26 57	"	"	"	+29.0	01 29	01 41	2W
14912	HD 223094	23 41.5	+28 09	"	"	"	+29.0	01 44	01 54	2W
14913	HD 2713	00 25.6	+22 34	"	"	"	+29.0	01 57	02 11	E
14914	HD 5917	00 55.6	+28 29	"	"	"	+29.1	02 14	02 30	E
14915	HD 6274	00 58.6	+26 03	"	"	"	+29.0	02 36	02 52	E
14916	HD 9638	01 29.4	+28 36	"	"	"	+29.0	02 55	03 11	1E

Focus set. 12.995

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
20 46	00 32W	+25 38	3	8.54 K ₀	1-1-1 AG 25 ^{guiding!} ^{good} Dec. setting wouldn't work when
21 37	00 11E	+30 07	3+	8.75 M ₀	1-1-1 " ^{l. weak} second star began. set manually
	00 16W	+28 21	3	8.95 G ₅	1-1-1 " ^{l. weak} from bridge (Not Numbered) ^{l. weak}
22 00	00 44W	+28 12	3	8.99 K ₀	1-1-1 " ^{l. weak} Occasional light clouds.
23 00	00 55W	+28 32	2	8.88 K ₅	1-1-1 " ^{l. weak}
24 00	00 52W	+27 04	3	8.91 G ₀	1-1-1 " ^{guiding!} ^{good}
25 00	00 55W	+27 48	2	8.79 G ₀	1-1-1 " ^{guiding!} ^{good} alto cumulus clouds
26 00	00 21W	+30 29	2	8.68 K ₂	1-1-1 " ^{fine}
27 00	00 35W	+25 19	3	8.77 K ₀	1-1-1 " ^{strong}
28 00	00 50W	+29 28	3+	8.77 K ₀	1-1-1 " ^{guiding!!!} ^{weak}
01 00	00 40W	+27 14	3+	8.48 K ₀	1-1-1 " ^{fine}
01 50	00 06W	+28 25	3+	8.30 K ₂	1-1-1 " ^{guiding!} ^{good}
02 11	00 22E	+27 50	3+	8.60 G ₀	1-1-1 " ^{guiding!} ^{fine}
02 30	00 33E	+28 44	3++	8.88 G ₅	1-1-1 " ^{fine}
02 50	00 18E	+26 18	3+	8.77 G ₀	1-1-1 " ^{guiding!} ^{fine}
03 10	00 26E	+28 50	4	8.88 K ₀	1-1-1 " ^{fine}

Date Tuesday Aug 24-25/48 / Ga-0^(Cont.) Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Mer Angle End
14917	HD 9714	01 30.0	+27 46	I-12	E-103a-0	^{set} V08	+29.0	03 14	03 30	SE
14918	HD 10981	01 42.8	+30 17	"	"	"	+29.0	03 34	03 46	SE
14919	HD 12052	01 53.2	+28 23	"	"	"	+29.0	03 49	04 05	
14920	HD 12972	02 01.9	+29 17	"	"	"	+29.0	04 08	04 26	SW
14921	AG 1263 AG 1265	02 16.3 02 16.4	+29 53 +29 50	"	"	"	+29.0	04 29	04 41	SW E
14922	HD 36484	05 26.9	+32 44	"	"	"	+29.0	04 50	04 56	SW
	Focus Test.									

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
03 30	06 E	+28 00	4	8.88 G ₅	1-1-1 AG. 25 } ^{too strong} operation of slide in PH #3 rough
03 46	05 E	+30 30+	4	8.72 G ₅	1-1-1 " } PH #3 removed from duty fine
04 55		+28 37	4	8.85 G ₅	1-1-1 " fine
04 36	18 W	+29 30	4	^{8.0} 8.93 A ₃ G ₅	1-1-1 " Wrong star identified on program. ^{too strong}
04 -	18 W	+30 05	3+	8.44 -	1-1-1 " Wrong star strong
04 5	37 ^E W	+32 45	3+	6.56 A ₂	1-1-1 Binary strong
		OT B.			6/5 forms OK
					3 PH loaded
					Two boxes of plates.

Date Wednesday Aug 25-26/48 De W Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Star Angle End
14923	HD 145394	16 05.5	+27 14	I-12	E103a-0	Set .008	+33.4	20 05	20 31	22W
14924	" 168038	18 12.8	+27 04	"	"	"	+33.2	20 51	21 05	50W
14925	" 187460	19 45.0	+29 38	"	"	"	+33.1	22 05	22 33	46W
14926	HD 190815 AG 16837	20 01.7 20 01.5	+29 25 +29 26	"	"	"	+33.1	22 37	22 55	5W
14927	HD 191590	20 05.6	+29 26	"	"	"	+33.1	23 01	23 19	2W
14928	" 192287	20 09.0	+24 56	"	"	"	+33.1	23 24	23 42	3W
14929	AG 12158	21 03.4	+29 58	"	"	"	+33.0	23 46	00 04	51W
14930	HD 201624	21 05.7	+24 13	"	"	"	33.3	00 07	00 25	2W
14931	213803	22 29.0	29 04	"	"	"	33.3	00 31	01 01	5W
14932	AG 13910	23 03.5	29 55	"	"	"	33.3	01 09	01 29	5W
14933	218454	23 03.1	29 54	"	"	"	33.4	01 31	01 44	10W
14934	220286	23 17.5	28 53	"	"	"	33.3	01 52	02 14	10W
14935	AG 221 2312	00 21.8 00 22.2	+30 25 +30 21	"	"	"	33.3	02 22	02 46	1W
14936	5462	00 51.3	25 48	"	"	"	33.3	02 50	03 12	1W
14937	7300	01 08.1	25 55	"	"	"	33.3	03 15	03 35	1W
14938	11120	01 44.3	25 15	"	"	"	33.3	03 40	04 02	5W

Focus 12.995

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp	REMARKS
20 31	02 22W	+ 27 07	2-3	8.93 K ₂	1-1-1	A.G. 25 Dec. setting 4/5 at end of first exposure
21 05	00 50W	+ 27 06	2-3	8.23 G ₀	1-1-1	" Repair made by Dr. Hogg before third
22 33	00 46W	+ 29 46	2-3	8.98 K ₀	1-1-1	" exposure started. Inspection on motor
22 55	00 51W	+ 29 34	3	8.84 ^A G ₀	1-1-1	" wrong star geared.
23 19	01 12W	+ 29 34	3	8.84 K ₂	1-1-1	" R.A. movement very stiff.
23 42	01 31W	- 25 05	3	8.86 M ₃	1-1-1	"
00 04	00 58W	+ 30 10	3	8.83 G ₀	1-1-1	"
00 25	01 17W	+ 26 24	3	8.85 K ₂	1-1-1	"
01 00	0 20 W	29 20	3	8.91 K ₀	1-1-1	"
01 20	0 28 W	30 11	3	8.98 G ₅	1-1-1	"
01 44	0 35 W	30 10	3	8.47 K ₅	1-1-1	"
02 04	0 54 W	29 09	3	8.96 G ₅	1-1-1	"
02 26	1 02 W	30 40	3	8.90 G ₅	1-1-1	Wrong star
03 20	1 18 W	26 04	3	8.97 M ₀	1-1-1	"
04 06	0 25 W	26 10	3	8.56 K ₀	1-1-1	"
04 23	2 15 W	25 29	3	8.93 G ₅	1-1-1	"

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
0420	24 ✓	29 17	3	8.98 K ₀	1-1-1 A.G. 25
0456	12 ✓	26 32	0	8.69 K ₀	1-1-1
		O.T.B.			6/4 } exposures touch
					1 P.H. + 4.

Date Thurs. Aug 26-27 / 48 D-No. Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
14941	HD 170737	18 25.9	+26 36	12"	E10320	f.4 008	32.6	21 14	2 52	17 W
14942	HD 170738	18 25.9	+25 42				32.5	21 54	22 14	17 W
14943	HD 185241	19 33.1	+27 58				32.5	22 19	22 39	17 W
14944	HD 187921	19 47.4	+27 12				32.4	22 41	23 01	17 W
14945	HD 191875	20 07.0	+29 25				32.4	23 07	23 27	17 W
14946	HD 191898	20 07.1	+25 51				32.4	23 31	23 51	17 W
14947	HD 192732	20 11.3	+29 42				+32.2	23 55	00 25	17 W
14948	A.G. 11420	20 26.5	+27 37				+32.2	00 29	01 03	17 W
14949	H.D. 198821	20 47.9	+28 30				+32.1	01 06	01 38	17 W
	204068	21.0	26 44							
14950	204072	21 21.1	+26 46				+32.2	01 42	02 10	17 W
14951	} 209598	21 59.5	+27 52				+32.2	02 13	03 30	17 W
		Focus test - outside three base					6 ^s /5 ^s			

Cloudy, clearing after dark 206

From 12 995

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp	REMARKS
21 5	1 ^h 27 ^m W	+26 37	2	8.75 G ₅	1-1-1	10 20 Dec. grinding (face?) 10 36 focal - smaller face 110 ✓ 22 10
22 4	1 ^h 49 ^m W	+25 44	2+	8.79 G ₅	1-1-1	
22 3	1 ^h 07 ^m W	+28 04	2+	8.82 K ₀	1-1-1	
21 5	1 ^h 14 ^m W	+27 19	2+	0 K ₀	1-1-1	Variable mag. [unclear]
21 5	1 ^h 16 ^m W	+29 32	2-3	8.75 K ₂	1-1-1	Many stars in field SPOTTER LIGHT FLEW SECONDS SLOW IN TURNING ON
21 5	1 ^h 55 ^m W	+25 59	3-	8.81 G ₅	1-1-1	THICK MURK IN N.E.
00 25	2 16 W	+29 52	3-	8.83 K ₀	1-1-1	hazy ✓
01 5	2 39 W	+27 46	3-2	8.76 K ₀	1-1-1	"
0 12	52 W	+28 41	2-3	8.81 K ₂	1-1-1	"
02 2	52 W	+26 55	3+	8.7 A ₂ 8.96 G ₅	1-1-1	(Wrong star marked on chart)
03 22	36 W	+28 06	3+	9.8(?) M ₈	1-1-1	variable (7.2-7.8 _v) - TW Peg. - sky thickening 02 40 - becoming progressively worse
Aug 28	MC -50°	SC +15°	MTW -13 ^m	STW 0.0 ^m		Aug 27-28, Clearing in zenith also - then alternating clearing & thickening W.

H-Ga-No

Date

Saturday Aug 28-29/48 ^ Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Star Angle End
14952	HD 184719	19 30.7	+29 56	1-12½	E 103a-0	1008	+32.6	21 45	21 59	N
14953	AG 10123	19 31.0	+29 52	1-12½	"	"	+32.6	22 00	22 20	W
14954	HD 185151	19 32.6	+27 39	"	"	"	+32.6	22 25	22 41	W
14955	HD 185270	19 33.2	+25 56	"	"	"	32.5	22 44	23 04	W
14956	HD 192286	20 09.0	+30 11	"	"	"	32.2	23 09	23 25	W
14957	HD 194403	20 20.3	+25 36	"	"	"	32.2	23 39	23 55	N
14958	204658	21 25.0	+28 26	"	"	"	+32.2	23 59	00 29	W
14959	204111	21 25.4	+25 22	"	"	"	+32.1	00 32	01 06	W
14960	209543	21 59.1	+26 28	"	"	"	+32.0	01 09	01 39	W
14961	215944	22 43.7	+27 36	"	"	"	+32.0	01 42	02 20	W
14962	216331	22 47.0	+29 30	"	"	"	+32.0	02 23	03 00	W
14963	10296	01 35.6	+27 58	"	"	"	+32.0	03 07	03 57	W
14964	11781	01 50.5	+26 59	"	"	"	+32.0	03 59	01 37	W
	Focus test - outside the lens					6 ^s /5 ^s				

75 visitors shown 3 Cgg.

N.C.C. 6205 + 6720

4 thru 4'

thru 74"

208

Ending Time E.S.T.	our Angle End	Declination	Seeing	Ptg. Mag.	Comp.	REMARKS
2 51	37 W	29 02	3-	8.51 K ₂	1-1-1	focus 12.995 1 wk.
2 52	100 W	28 58	3	8.79 G ₅	1-1-1	1 wk.
2 54	16 W	28 45	3	8.54 K ₀	1-1-1	good
2 56	141 W	26 02	3	8.78 G ₅	1-1-1	low clouds. 23 08 good
2 58	35 W	30 18	3	8.75 G ₅	1-1-1	f.
2 59	44 W	25 45	3+	8.72 K ₅	1-1-1	good
2 59	14 W	+28 38	+3-	8.77 G ₅	1-1-1	strong
2 59	50 W	+25 35	3-	8.77 K ₂	1-1-1	strong
2 59	50 W	+26 42	3-2	8.70 K ₀	1-1-1	strong
2 59	146 W	+27 52	2	8.62 G ₀	1-1-1	strong
2 59	2 26 W	+29 45	2-	8.64 K ₀	1-1-1	star looks too blue! strong
2 59	31 W	+28 13	2	8.85 K ₀	1-1-1	strong
2 59	2 56 W	+21 13	2	8.68 G ₀	1-1-1	scattered clouds 04.10 - ^{st. ov} much thicker 04.20 - clouded out 04.35-

Date Sunday Aug. 29-30/48 No. Ga-De Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.
14965	HD 149241	16 28.4	+27 55	I-12"	E-103-O	^{set} .008	+29.0°C	19 47	20 37
14966	HD 152748	16 50.1	+27 45	"	"	"	+28.2	20 40	21 20
		1948 Aug. 30.		H-Ba					
		Changed to 25-inch camera				12-inch tilt was 20.26°			
14966 F	25-inch	<u>22.2</u>		Vernier	23.40				
				micr.	15.620	setting 0			
					15.820		3		
					15.720		7		
				Tilt	23.18				

Date Mon Aug 30-31 1948 D/O Julian Day RLB

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.
14967	HD 169223	18 186	+16 38	1-25"	E 1030-0	Set 008	+23.1	20 41	21 15
14968	HD 180316	19 110	+27 46				+23.0	21 20	21 30
14969	HD 182381	19 193	+15 49				+23.0	21 41	21 17
14970	HD 209598	21 595	+27 52				+23.0	21 25	20 37
14971	Algol.	3 05	+40 46	1-25"	E-10300	Set '002		02 02	02 10
	"	"	"					02 10	02 14
	"							02 14	02 16
14972	"			1-25"	E-10300	.002		02 30	02 38
	"							02 40	02 44
	"						+22.8	02 44	02 47
14973	"	"	"	1-25"	E 1030	.002		02 51	02 59
	"							02 59	03 03
	"						+22.8	03 03	03 05
14974	HD 6475	01 007	+59 20	1-25"	E 10300	.002	+22.7	03 22	03 38
14975	HD 12232	01 550	+29 27	1-25"	E 10300	.008	+22.6	03 44	05 00
"	Focus Test						+22.4		

Clouds at dusk, clearing shortly
thereafter. 212

From 15.770

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp.	REMARKS
21	1 ^h 11 ^m W	+16 39	1+	7.38 K ₆	3-3-3	Binary
	1 ^h 12 ^m W	+27 53	1+	6.51 B ₅	3-3-3	"
	1 ^h 14 ^m W	+15 54	1-2	7.42 A ₆	3-3-3	
	51 W	+28 06	2	^{VIZ} 72.78 M	3-3-3	PROGR. * TW P _{eq} . M _{phot} = 9.8 Night unclouded clouds from SW
			2-3		9	Sub. 3 Clouded over at 00 20 - clearing partly after 01 00 (Obscured in middle)
			2-3		9	Obscured by cloud halting this exposure No exposures (star or comp.) on plates 14971 - 14975 incl.
			2-3		9	
			2-3		9	
			2-3		9	
			2-3		9	
			2-3		9	
			2-3		9	
	39 E		2-3		9	
03 38	54 W	+59 34	2	6 ^m .78	3-3-3	Binary numbered 14975
05 51	22 W	+29 40	1-	8 ^m .65	3-3-3	A.G. 25
					10/7	3 P.H. loaded + 4

1
Tues.
 Date Aug 31 - Sept 1/18 *V. B. / Ga.* Julian Day
RIP

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Exposure Time
14971	<i>Lyrae</i>	55.2 18 57	+ 32 33 + 32 37	I-25	K103aD	.003	20	19 56	20 00	4
14972	<i>Lyrae</i>	55.2 18 57	2 33 31 37	I-25	E40	.003	20	20 09	20 14	5
14973	HD 169223	18 18.6	16 38	"	E103aD	.008	+20.1	20 45	21 22	77
	HD 172569	18 35.9	65 24	"	"	"	"	22 36		
14974	197508	20 39.1	83 17	"	"	"	20.1	22 36	22 50	14
14975	199095	20 49.8	82 10	"	"	"	20.1	22 57	23 07	10
14976	201269	21 03.3	47 47	"	"	"	20.1	23 12	00 06	54
14977	212412	22 19.2	14 46	"	"	"	19.9	00 09	00 33	24
14978	HD 209598	21 57.5	+27 52	"	"	"	19.6	00 39	02 05	66
14979	<i>PP</i>	3 01.7	+40 34	"	"	.03	"	02 18	02 22	4
1								02 29	02 31	2

Date

1911/11/13

Ga
P.P.

(cont)

Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.
14979 cont'd	β Per.		40 22		E 41	.003		0232	0238:40
								0241:10	0249:10
								0249:30	0248:30
								0248:50	0251:50
								0252	0200
14980	β Per.	3 01.7	+40 34 76	E 30"	E 41	.003	20	0304:40	0307:40
								0308	0312
								0312:30	0314:40
								0315:40	0324:40
								0324:50	0327:20
								0328:30	0328:30
								0339	04
14981	β Per.		40 22		E 41	.003	20	0345	0350
								0351:10	0401:10
								0403:30	0411:30
								0412	0413

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
0			2-3		15 Set 6.
02:44					15 Set 8
04:23					15 Set 10
05:15			2		15 Set 12
06:30					15 Set 14
07:40				B8	15 Set 16
08:12					15 Set 2
09:10					15 Set 4
10:05			1		15 Set 4
11:00					15 Set 6
12:00					15 Set 8
06:10			2		15 Set 10
07:00				B8	15 Set 10
08:00			3		12 Set 2
09:00			2		12 Set 4
10:00					12 Set 6

217

Date Sept 1 1948 Ga-Ga (cont) Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.
1493	<i>cont'd</i> 318		AD 42		E 40	.002	20	0418	0430
								0431	0436
								04230	0442
								0448	0455
1492					R 10300				
1498 ²	HD 36484	05 269	32 44	1-25	E103 _{a-0}	^{set about} 1008	20.0	05 03	05 15
"	Focus test		073						
1498 ² -F	"	"	"		E103 _{a-0}	1008	20.0		
"	"	"	"		E103 _{a-0}	^{set} 1003	20.0		

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
			2		15 Sept 9
					plate numbered 14982
					15 Sept 10
					7-7 Sept 12
					7-7 Sept 14
					re-issued this number.
05	151 E	132 45	2	6.56 A ₂ 1-1-1	Slit cut by guess on an inconvenient position, actual width .0075. Exposure near part time limit on graph. prismless for exposure on 18/13
					10/7 battery 2
					10/7 battery 7
					prism without charge, gentle glass in front of eye problem.
					Sept 1.
					MC -565
					SC +255
					MTW -95
					STW -.4 m

Date Friday Sept. 3-4/1948 0 - Ga Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Star Angle: End
14984	HD 183753	19 25.9	+28 31	I-12	E-103.10	Set -008	+23.9	21 17	21 37	2 W
14985	HD 191945	20 07.3	+28 52	"	"	"	+23.9	21 39	21 59	3 W
14986	HD 195712	20 27.8	+26 44	"	"	"	+23.9	22 01	22 23	4 W
14987	HD 195667	20 27.6	+26 42	"	"	"	+23.8	22 25	22 45	1 W
14988	HD 203288	21 16.2	+25 49	"	"	"	+23.8	22 48	23 06	2 W
14989	HD 204388	21 23.1	+27 27	"	"	"	+23.8	23 09	23 31	3 W
14990	HD 208750	21 53.3	+26 45	"	"	"	+23.8	23 34	23 52	4 W
14991	HD 208987	21 55.0	+29 25	"	"	"	+23.7	23 55	00 21	1 W
14992	HD 216586	22 49.0	+28 06	"	"	"	23.7	00 12	00 24	2 W
14993	HD 219654	23 12.4	+29 20	"	"	"	23.7	00 34	00 48	3 W
14994	HD 2552	00 26.7	+28 16	"	"	"	23.7	00 52	01 06	4 E
14995	HD 6132	00 57.4	+29 27	"	"	"	23.8	01 09	01 25	5 E
14996	HD 10766	01 40.2	+25 54	"	"	"	24.0	01 29	01 45	6 E
14997	HD 17613	20 30.3	+44 50	"	"	"	24.0	01 53	01 58	7 W
14998	HD 207243	21 42.5	+29 39	"	"	"	23.9	02 05	02 20	8 W
14999	HD 208276	21 50.1	+29 47	"	"	"	23.8	02 22	02 38	9 W

Focus 12.990

Clouds and haze at sunset slowly clearing

Ending Time E.S.T.	Hour Angle End	Declination	Seeing ^u	Ptg. Mag.		REMARKS
21 37	0 44 W	+28 37	2	8.49 K ₂	1-1-1	AG 25 <i>weak</i>
21 59	0 24 W	+29 01	3-	8.68 K ₂	1-1-1	" <i>weak</i>
22 23	0 28 W	+26 55	2+	8.60 K ₀	1-1-1	" <i>weak</i>
22 55	0 50 W	+26 53	2-3	8.55 K ₂	1-1-1	" <i>weak</i>
23 06	0 23 W	+26 02	2-3	8.65 K ₅	1-1-1	" <i>weak</i>
23 31	0 47 W	+27 38	2-3	8.85 K ₅	1-1-1	" <i>weak</i>
23 52	0 31 W	+26 58	3	8.70 G ₅	1-1-1	" <i>weak</i>
00 08	0 47 W	+29 38	3	8.68 K ₂	1-1-1	" <i>fine</i>
00 24	0 08 W	+28 20	3	8.48 K ₂	1-1-1	" <i>spots appeared!</i> <i>fine</i>
00 41	0 09 W	+29 35	3+	8.70 K ₅	1-1-1	" <i>good</i>
01 06	1 15 E	+29 33		8.51 K ₀	1-1-1	" <i>setting</i> 5 <i>RA. for HD 2552 00^h 24^m</i>
01 25	1 00 E	+29 42	3	8.62 K ₀	1-1-1	" <i>setting</i> 8 <i>hr. at end does not check for this star - should it read 45^m E?</i> <i>good</i>
01 45	1 25 E	26.09	3+	8.84 G ₅	1-1-1	" " 4 <i>good</i>
01 55	1 00 W	44 58	3++	6.68 A ₂	1-1-1	" " 8 <i>good</i>
02 20	3 11 W	-29 52	3++	8.67 K ₀	1-1-1	AG 25 " 4 <i>fine</i>
02 28	3 22 W	29 59	3	8.63 K ₀	1-1-1	" " 8 <i>weak</i>

Date *Fri Sept 3 4/1948 cont'd - Ga* Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Sec. Angle End
¹⁵⁰⁰⁰ 14997	AG 13020	21 51.7	+25 58	1-12	F ₁₀₃₀ 0	.008	+23.9	02 41	02 57	9W
15001	AG 13639	22 36.8	+29 31	"	"	"	+23.9	03 00	03 30	7W
¹⁵⁰⁰² 14998	HD 12260	01 55.2	+29 04	"	"	"	+23.8	03 36	03 50	7W
15003	HD 14624	02 16.6	+25 49	"	"	"	+23.8	03 54	04 14	W
¹⁵⁰⁰⁴ 14999	HD 16099	02 30.1	+29 26	"	"	"	+23.8	04 17	04 37	4
¹⁵⁰⁰⁵ 15000	HD 16139	02 30.4	+27 01	"	"	"	+23.8	04 40	04 58	W
¹⁵⁰⁰⁶ 15000	HD 36484	05 26.9	+32 44	"	"	"	+23.8	05 04	05 07	E
"	Focus test						+23.8			

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp	REMARKS
02 50	3 39W	+26 11	3	8.72 G ₀	1-1-1	AG. 25 : setting 4
03 00	3 27W	+29 47	3	8.63 K ₅	1-1-1	" " 8 ← " 8 of double ^{weakly} component
03 50	3 27W	+29 17	3	8.65 K ₀	1-1-1	" setting 4 looks fainter than 8.63! ^{grad}
04 00	3 31W	+26 01	3	8.91 G ₅	1-1-1	" " 8 fine
04 17	3 40W	+29 38	3	8.92 K ₀	1-1-1	" " 4 fine
04 48	1 00W	+27 15	3+	8.86 G ₅	1-1-1	" " 8 fine
05 17	1 46E	+32 46	3	6.58 A ₂	1-1-1	Binary guiding! fine

OTB 8/6

4 PH. loaded. +3

ONLY SEVEN PLATES LEFT!

Saturday Sep. 4

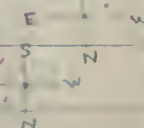
	Reach	
mt.w		st.w.
0.0		+0.2

Date 1st Sept 4.5 / 1948 Wm-O / 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.	Star Angle End
{ 1500 / 7	HD 188121	19 48.5	+28 17	E-12	E 103.0	Set 008	25.7 C	21 26	21 44	SW
{ 1500 / 8	HD 191010	20 02.6	+25 24	"	"	"	25.6	21 47	22 01	SW
{ 1500 / 9	HD 195216	20 24.9	+27 31	"	"	"	25.5	22 04	22 18	SW
{ 1500 / 10	HD 196034	20 29.7	+25 17	"	"	"	25.7	22 21	22 35	SW
{ 1500 / 11	HD 197550	20 37.3	+29 51	"	"	"	25.7	22 38	22 57	SW
{ 1500 / 12	HD 198254	20 44.0	+25 10	"	"	"	25.7	23 00	23 14	SW
{ 1500 / 13	HD 206978	21 40.7	+29 56	"	"	"	25.7	23 17	23 35	SW
{ 1500 / 14	HD 208379	21 50.8	+25 27	"	"	"	25.7	23 38	23 56	SW
{ 1500 / 15	HD 210685	22 07.0	+26 46	"	"	"	25.7	23 55	00 07	SW
{ 1500 / 16	214332	22 32.3	+29 13	"	"	"	25.7	00 20	00 48	SW
{ 1500 / 17	217714	22 57.8	+28 52	"	"	"	25.7	00 54	02 14	SW
{ 1500 / 18	217714	22 57.8	+28 52	"	"	"	25.5	02 15	03 35	SW
{ 1500 / 19	18328	02 51.6	+29 19	"	"	"	25.4	03 39	04 07	SW
{ 1500 / 20	18403	02 52.3	+26 56	"	"	"	25.5	04 10	04 38	SW
{ 1500 / 21	16139	02 30.4	+27 01	"	"	"	25.5	04 42	05 06	SW
	Focus test - constant 7" lens 6 ^s / 6 ^s									

50 visitors shown. Ring Nebula in eye and B Cygnus will 74' 226
 Jupiter in 5"

Focus 12.990

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp.	REMARKS
21:00	0 33 W	+28 24	3+	8.82 G ₀	1-1-1	AG-25. Set. 3 <i>strong</i>
21:05	0 36 W	+25 33	3+	8.64 K ₀	1-1-1	" 7 <i>guiding!</i> <i>weak good</i>
21:10	0 30 W	+27 41	3+	8.68 K ₅	1-1-1	" 3 <i>Had in speckles of mt. lens on unit</i>
21:15	0 42 W	25 27	3+	8.64 K ₅	1-1-1	" 7 <i>dark square</i> <i>discrete</i>
21:20	0 55 W	+30 01	3+	8.81 K ₀	1-1-1	" 3 <i>Power off from 22 40-41</i> <i>Stand off for 5 min</i>
21:25	1 07 W	+28 20	3-	8.70 K ₀	1-1-1	" 7 <i>good</i>
21:30	1 31 W	+30 11	3-	8.89 G ₀	1-1-1	" 3 <i>fine</i>
21:35	1 56 W	25 41	3+	8.64 G ₅	1-1-1	" 7 <i>fine</i>
21:40	2 17 W	+27 00	3+	8.82 K ₂	1-1-1	" 3 <i>as viewed in good</i> <i>strong</i>
21:45	2 39 W	+29 28	3-	8.91 G ₅	1-1-1	" 7 <i>strong</i>
21:50	3 04 W	+27 06	3	8.89 K ₀	1-1-1	" 3 <i>double star w/</i> <i>weak</i>
21:55	3 25 W	+29 06	3	8.89 K ₀	1-1-1	" 7 <i>fine</i> <i>sp.</i> 
22:00	3 47 E	+29 31	3-	8.89 G ₅	1-1-1	" 3 <i>fine</i>
22:05	4 23 W	+27 08	3-	8.90 G ₀	1-1-1	" 7 <i>double inf.</i> <i>strong</i>
22:10	4 43 W	+27 15	3-	8.86 G ₅	1-1-1	" 3 <i>too strong</i>
						7 <i>four- to all. to weak</i>

Date Jan 15 1927 Ca 1 D 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
15022	} HD 172132	18 33.4	+28 58	1-12	E 103a-0	Lot .009	+26.1° C	19 41	21 09	W
15023		20 30.3	+28 50	"	"	"	-26.0	21 15	21 21	E
15024	} HD 193221	19 50.7	+25 04	"	"	"	+26.0	21 25	21 31	W
15025		20 14.0	+25 12	"	"	"	+26.0	21 50	22 13	W
15026	HD 193488	20 15.4	+27 06	"	E 103a-0 1946 lot 1	"	26.0	22 26	23 18	W
15027	HD 197020	20 35.9	+25 41	"	"	"	25.9	23 22	00 12	W
15028	HD 2552	00 24.1	+28 16	"	"	"	25.8	00 16	01 36	E
15029	HD 4198	00 44.9	+27 50	"	"	"	25.9	01 30	02 19	W
15030	HD 5164	00 48.4	+28 02	"	"	"	25.7	02 20	03 08	W
15031	HD 13943	02 10.6	+29 20	"	"	"	25.7	03 11	04 11	W
	Ecc. Test									
15032	17119	02 39.7	+29 55	"	"	"	25.7	04 16	05 06	W

7
 17. 1940

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
17	17 W	+29 01	1-2	8.37 K ₂	1-1-1 <i>Large! AG25</i> <i>Discovered spec. but not turned over!</i> <i>Sitting 5</i>
23	23 E	+44 57	3	6.68 A ₂	1-1-1 <i>AG25</i> <i>Very clear a bit</i> <i>1</i> <i>weak</i>
35	35 W	-25 12	2	8.20 K ₂	1-1-1 <i>AG25</i> <i>Very clear a bit</i> <i>1</i> <i>weak</i>
45	45 W	+25 20	2+	8.44 K ₅	1-1-1 <i>"</i> <i>"</i> <i>"</i> <i>weak</i>
47	47 W	+27 17	2+	8.57 G ₅	1-1-1 <i>"</i> <i>"</i> <i>"</i> <i>weak</i>
57	57 W	+25 52	3	8.51 G ₀	1-1-1 <i>"</i> <i>"</i> <i>"</i> <i>weak</i>
18	18 E	+28 33	2-3	8.51 K ₀	1-1-1 <i>Have back again</i> <i>guiding</i> <i>good</i>
14	14 W	+28 05	2+	8.79 K ₀	1-1-1 <i>Visitors 2-piece field</i> <i>Have work</i> <i>good</i>
20	20 W	+28 17	2-3	8.16 G ₅	1-1-1 <i>Less 1</i> <i>fine</i>
41	41 W	+29 33	2-3	8.63 G ₅	1-1-1 <i>Setting 3</i> <i>fine</i>
				6-6	<i>Setting 3</i> <i>fine</i>
07	07 W	+30 06	2-3	8.51 G ₅	1-1-1 <i>Setting 3</i> <i>fine</i>

Mon, Sept 6-7, 1948. Unsettled, some showers 1⁵ 1/2 Wm.

Sept 9. MTW STW
 +2^s +.3^m

Date

September 10 / 0 Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.
15033	HD 106029	19 02.0	+27 11	1-12	F-103a-a	let .008	+20.1°C	00 12	00 12
15034	HD 194071	20 16.5	+27 55	"	"	"	+20.0	00 16	00 34
15035	HD 220684	23 20.6	+25 39	"	"	"	20.0	00 38	01 06
15036	HD 223332	23 43.6	+27 49	"	"	"	20.0	01 09	01 33
15037	HD 664	00 05.8	+29 01	"	"	"	20.0	01 36	02 00
15038	HD 2732	00 25.7	+29 01	"	"	"	19.8	02 03	02 29
15039	HD 6286	00 58.7	+26 04	"	"	"	19.8	02 32	02 51
15040	AG 766	01 40.9	+29 03	"	"	"	19.8	02 32	03 04
15041	HD 14490	02 15.3	+29 28	"	"	"	19.7	03 31	04 04
15042	HD 18602	02 54.4	+30 09	"	"	"	19.7	04 13	04 39
15043	HD 22849	03 35.1	+29 10	"	"	"	19.7	04 43	05 09
	Focus Test						19.7		

Cloudy at sunset and until about 2315 EST.

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		Focus 12.990	REMARKS
07 12	4 07 W	+29 15	2-3	8.70 K ₀	1-1-1	AG-25	<u>Plate in holder backwards.</u>
07 37	3 13 W	+28 03+	2+	8.53 K ₀	1-1-1	"	
07 55	42 W	+25 55	2-3	8.77 K ₀	1-1-1	"	
01 33	46 W	+28 05	2-3	8.70 K ₀	1-1-1	"	
02 7	51 W	+20 15	2+	8.75 G ₀	1-1-1	"	"dec." settings do not agree with calculated values although fields appear correct
02 21	α W	+29 13	2+	8.77 K ₀	1-1-1	"	
2 9	52 W	+26 19	2	8.61 G ₀	1-1-1	"	
2 30	44 W	+29 17	2+	8.88 G ₀	1-1-1	"	
2 48	50 W	+29 42	2	8.70 G ₀	1-1-1	"	Plains from 3:41-3:45
0 35	42 W	+30 21	3	8.91 K ₀	1-1-1	"	
0 00	31 W	+29 19	3	8.99 G ₅	1-1-1	"	
		OTB				6/5	
							4 P. H. loaded.

Focus set 12.986

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp	REMARKS
20 1-	1 36W	+24 48	0-1-2	8.68 G ₅	1-1-1	A.G. 25
20 32	0 59W	+28 03	3	8.69 K ₀	1-1-1	"
2 1	1 12W	+28 05	3-2	8.68 K ₀	1-1-1	" Not circled on chart.
2 1	1 38W	+29 32	2	8.50 G ₀	1-1-1	"
2 5	0 24W	+27 54	2-3	8.58 K ₅	1-1-1	"
2 3	0 48W	+26 07	3	8.72 K ₀	1-1-1	"
2 7	1 07W	+30 04	3	8.61 K ₂	1-1-1	"
2 4	1 23W	+26 03	3	8.61 K ₅	1-1-1	" Double, North preceding
2 9	1 06W	+26 11	3-	8.61 K ₂	1-1-1	"
2 9	1 44W	+29 00	3-	8.58 K ₀	1-1-1	" Scattered Clouds 2340 on.
2 11	1 35W	+27 32	3-	8.93 G ₅	1-1-1	" Sky clear at start of exposure; completely obscured by 0050

O.T.B

6/4

4 P.H. Loaded + 4 + 12

Closed 0345 Overcast - Variable
Cloudiness.

Date *Sat Sept 11-12/48* Hd-Ga / De Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.
15055	HD 205626	21 31.5	+25 55	1-12	E 103a-0	^{1st} .008	+19.0°C	23 26	23 52
15056	HD 205627	21 31.5	+25 55	"	"	"	+19.0	23 53	00 15
15057	AG 12707	21 32.5	+29 13	"	"	"	+18.8	00 18	00 36
15058	HD 3252	00 30.6	+28 32	"	"	"	18.7	00 41	00 59
15059	" 4312	00 40.5	+25 38	"	"	"	18.7	01 02	01 18
15060	" 5007	00 47.0	+25 14	"	"	"	18.6	01 21	01 37
15061	" 5411	00 50.8	+28 39	"	"	"	18.7	01 41	02 05
15062	" 7300	01 08.1	+25 55	"	"	"	18.7	02 08	02 26
15063	" 7308	01 08.2	+25 42	"	"	"	18.7	02 29	02 51
15064	AG 710	01 08.5	+25 45	"	"	"	18.7	02 53	03 23
15065	HD 12728	01 59.6	+28 39	"	"	"	18.7	03 27	03 43
15066	" 14456	02 15.0	+28 04	"	"	"	18.6	03 47	04 05
15067	AG 1264	02 16.4	+27 09	"	"	"	18.6	04 09	04 25
15068	HD 14608 AG 1265	02 16.5	+29 57 ⁰	"	"	"	18.6	04 28	04 44
15069	" 14874	02 18.9	+30 12	"	"	"	18.5	04 47	05 03
15070	" 19079 Focus Test	02 59.1	+29 48	"	"	"	18.5 18.4	05 06	05 26

Kindness for visitors who were shown (3 Eya with 74"
 5' and 5' and 3 and 4 with 4" (about 40-50 visitors)
 Kindness continued til about 2300.

234

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Focus 12.987	REMARKS
21:52	25 W	+26 09	2-3	8.56 G ₀	1-1-1	AG 25 { Double - west to east } ^{good}
00:15	48 W	+26 09	3	8.56 G ₀	1-1-1	" " east " fine
00:20	39 W	+29 26	3	8.51 G ₅	1-1-1	" " " " " fine
00:50	28 E	+26 47	3	8.62 G ₅	1-1-1	" " " " " fine
01:00	18 E	+25 54	3	8.49 K ₂	1-1-1	" " " " " fine
01:20	05 E	+25 30	3	8.45 K ₀	1-1-1	" " " " " strong
01:50	19 W	+25 52	3-	8.93 K ₀	1-1-1	" " " " " fine
02:20	22 W	+26 11	3	8.56 K ₀	1-1-1	" " " " " fine
02:30	42 W	+25 58	3	8.83 K ₂	1-1-1	" " " " " ^{guiding} Not circled in white on chart
03:00	20 W	+26 00	3	8.99 K ₀	1-1-1	" " " " " too weak
03:30	42 W	+28 51	3	8.44 G ₅	1-1-1	" " " " " fine
04:00	5 W	+28 16	3	8.56 G ₀	1-1-1	" " " " " very strong
04:25	12 W	+27 23	3+	8.58 G ₅	1-1-1	" " " " " too strong
04:40	32 W	+30 04	3+	8.54 K ₀	1-1-1	" " " " " programme star good
05:00	49 W	+20 25	3+	8.57 G ₅	1-1-1	" " " " " too strong
05:40	31 W	+30 00	3+	8.75 G ₅	1-1-1	" " " " " 2 P.H. Loaded + 0. ^{focus 3.5} good
		O.T.B			6/4	

Date Sun, Sept 12-13, 1948 O/W

Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.
{ 15071	HD 180316	19 11.0	+27 46	I-25	F-103 ₀ 0	^{SJ} 008	+25.7	19 13	19 21
{ 15072	HD 172569	18 35.9	+65 24	"	"	"	+25.8	19 26	19 31
{ 15073	HD 197508	20 39.1	+83 17	"	"	"	+25.8	19 41	19 47
{ 15074	HD 196133	20 30.3	+44 50	"	"	"	+25.7	19 56	20 04
{ 15075	^(MWC-317) HD 183143	19 23.0	+18 05	"	"	"	+25.7	20 09	20 19
{ 15076	MWC 320	19 41.3	+5 44	"	"	"	+25.7	20 22	21 10
{ 15077	HD 194510	20 20.9	+25 24	"	"	"	+25.7	21 13	21 53
{ 15078	HD 199221	20 50.7	+27 42	"	"	"	+25.7	21 58	22 08
{ 15079	HD 209484	21 58.7	+29 44	"	"	"	+25.6	22 31	22 41
{ 15080	HD 209469	21 58.6	+42 20	"	"	"	25.6	22 45	22 55
{ 15081	^(MWC 397) HD 218393	22 02.6	+49 40	"	"	"	25.6	23 04	23 13
{ 15082	^(MWC 395) HD 217543	22 56.3	+38 10	"	"	"	25.6	23 17	23 24
{ 15083	HD 210170	22 03.4	+17 04	"	"	"	25.5	23 30	23 41
{ 15084	HD 209833	22 01.0	+28 28	"	"	"	25.5	23 46	23 51
{ 15085	HD 209598	21 57.5	+27 52	"	"	"	25.5	23 56	00 40
{	196188		+1 50	"	"	"			

Sun Sept 12/48 changed to I-25. I-2 focus was 12.987 tilt 20.25
 Temp 24.0°C. I-25 set to focus 15.750 Tilt 23.18
 Temp 25.7°C. Focus test made, and found O.K. for use 15.750

236

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Focus	REMARKS
19 21		+ 27 51	3+	6.51 B ₅	3-3-3	plate Settling 3 Binary <i>fine</i>
19 20	05 W	+ 65 25	3+	6.10 A ₃	5-4	Binary <i>gliding</i> <i>good</i>
19 19	1 38 E	+ 83 27	3+	6.22 A ₂	5-4	Binary <i>fine</i>
19 09	1 20 E	+ 44 58	3	6.68 A ₂	5-4	Binary <i>fine</i>
19 00	04 W	+ 18 09	3	6.9 B ₉	5-4	Be Program <i>too weak</i>
19 20	37 W	+ 05 51	3	8.5 B ₅	3-3-3	Be Program <i>too weak</i>
19 21	40 W	+ 25 33	3	8.33 G ₅	3-3-3	AG 25 <i>good</i>
19 20	46 W	- 27 51	3+	8.30 G ₅	3-3-3	AG 25 <i>too strong</i> <i>Appears much Brighter than 8.0</i>
19 20	10 E	- 17 58	3+	7.00 B ₉	3-3-3	Binary <i>gliding!</i> <i>good</i>
19 20	05 W	+ 42 35	3+	7.04 B ₉	3-3-3	Binary <i>too weak</i>
19 20	42 E	+ 49 53	3+	6.8 A _{ve}	5-4	Be Program <i>fine</i>
19 20	24 E	+ 38 25	3+	6.4 B _{2me}	5-4	Be Program <i>fine</i>
19 20	42 W	- 17 17	3	6.98 A ₀	3-3-3	Binary <i>good</i>
19 20	59 W	+ 13 41	3	5.56 B _{7n}	5-4	Binary <i>weak</i>
19 20	50 W	- 28 04	3	(9.8) M ₉	3-3-3	AG 25. T.W. Page <i>fine</i>
				6.68 A₂	X	Binary Too FAR WEST

Date *Sun. Sept. 12 13/48* *VI.*

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
{ 15056	M.V.C. 397 HD 218 393	23 02.6	49 40	I- ²⁵ 12	L103aD	.008	25.5	02 50	03 10	15 W
{ 15057	4744	00 44.4	29 54	"	"	"	25.6	03 13	04 11	15 W
{ 15058	21018	03 18.4	04 31	"	"	"	25.5	04 18	04 52	15 W
{ 15059	38541	05 02.9	73 09	"	"	"	25.5	05 06	05 16	15 W
{ 15090	35041 05 17.0 58 51									
	<i>Focus Test</i>									

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS	
03:50	3 15 W	49 54	3	6.8 Ave	3-3-3 Set 8 Ba prog. fine	
04:10	2 35 W	30 09	3-	8.41 G 3	3-3-3 Set 3 AG 25 very weak	
04:50	0 43 W	04 44	2.	6.97 F 8	3-3-3 Set 8 Binary weak	
05:10	1 16 W	73 10	2	5.76 A 0	5-4 Set 3 Binary some clouds fine	
				6.37 B 9	5-4 Set 8	
		OTB			10/1 Set 8 four o.k.	
					3 P.H. loaded + 4	

Mon
Date Sept 13-14, 1948 Wm/Ga

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
{ 15 090	HD 196 133	20 30.3	+ 44 50	T-25	E 103a 0	SPT 008	+24.2	19 ^h 30 ^m	19 ^h 50 ^m	23
{ 15 091	HD 182 381 MWC 397	19 19.3	+ 15 49	"	"	"	+24.1	19 ^h 59 ^m	20 ^h 49 ^m	41
{ 15 092	HD 218 393 MWC 399	23 02.6	+ 49 10	"	"	"	+24.0	21 ^h 01 ^m	21 ^h 27 ^m	24
{ 15 093	HD 217 050	22 52.7	+ 48 09	"	"	"	+24.0	21 ^h 31 ^m	21 ^h 37 ^m	24
{ 15 094	HD 201 490	21 04.9	+29 58	"	"	"	+23.9	22 10	23 31	41
{ 15 095	HD 213 025 MWC 409	22 23.5	+ 26 31	"	"	"	+24.0	23 39	00 27	16
{ 15 096	HD 225 095	23 58.3	+ 55 00	"	"	"	+24.0	00 34	01 34	41
{ 15 097	HD 196 133	20 30.3	+ 44 50	"	"	"	+24.0	01 41	02 05	2
{ 15 098	HD 210208 MWC 49	22 63.7	+ 42 27	"	"	"	+24.0	02 09	02 49	59
{ 15 099	HD 15472 MWC 397	02 24.4	+70 30	"	"	"	+24.0	02 58	03 40	59
{ 15 100	HD 218 393 MWC 63	23 02.6	+49 40	"	"	"	+24.0	03 48	04 06	59
{ 15 101	HD 20017 MWC 93	03 07.9	+48 19	"	"	"	+23.9	04 11	04 51	5
{ 15 102	HD 31293	04 49.4	+30 24	"	"	"	+23.9	05 01	05 21	5
"	Focus lost.			OT 15.	10/7	M.C.	+24.0			

Focus 15.748

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		comp.	REMARKS
19 ^h 55 ^m	1 ^E 23	+49°56'	1-	6.68 A2	Setting 3	3-3-3	Binary
20 ^h 49 ^m	0 ^W 41	+15°54'	0	7.42 ADn	Setting 8	3-3-3	"
21 ^h 17 ^m	2 ^E 24	+49°54'	0+	6.8 Ave	Setting 3	3-3-3	Be Program } numbered 15091-2
21 ^h 37 ^m	2 ^E 09	+48 24	0+	5.2 B3ne	Setting 8	9	" "
23	1 ^W 41	+30°00'	0	8.05 GO	Setting 3	3-3-3	AG25 ← { BLEW OUT DEC GUIDING FUSE. REPLACED W. HELP OF BE.
0027	1 ^W 16	+26°45'	0+	7.27 KO	Setting 8	3-3-3	"
01	0 ^W 49	+55°15'	0	7.6 Bie	" 3	3-3-3	Be Prog.
0205	4 ^W 48	+44°58'	1	6.68 A7	" 8	3-3-3	Binary
0211	3 ^W 59	+42°40'	1	7.50 B9	" 3	3-3-3	Binary
0217	0 ^W 57	+70°42'	2	8.0 Byme	" 8	3-3-3	Be Prog.
0218	4 ^W 14	+49 53	2	6.8 Ave	" 3	3-3-3	Be Prog.
0219	0 ^W 55	+44 28	2	7.9 Bme	" 8	3-3-3	Be Prog.
0220	3 ^E 15+	+30 27	1-	7.5 Aoop	" 3	3-3-3	Be Prog.

plate holder loaded + 8
 2/17/48
 +06^S +0.3^m

Date Thursday, Sept 16-17/48 De/Ga Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Bear Angle End
15103	HD 180316	19 11.0	+27 46	I-25	E103a-0	Set .008	+17.2	21 34	21 48	01N
15104	HD 196133	20 30.3	+44 50	"	"	"	17.1	22 09	22 23	07W
15105	MWC 397 HD 218393	23 02.6	+49 40	"	"	"	17.0	22 36	22 52	04E
15106	HD 218199	23 01.0	+30 11	"	"	"	17.0	23 55	01 09	03SW
15107	MWC 68 HD 21650	3 24.6	+41 25	"	"	"	17.0	01 16	01 40	01E
15108	MWC 76 HD 23982	3 41.3	+63 11	"	"	"	17.0	01 49	02 27	00E
15109	MWC 82 HD 26420	4 05.7	+41 53	"	"	"	17.0	02 35	02 57	00E
15110	MWC 397 HD 218393	23 02.6	+49 40	"	"	"	17.0	03 06	03 16	02W
15111	HD 32541	05 05.9	+73 09	"	"	"		03 27	03 31.5	
15112	HD 35076	05 17.0	+78 51	"	"	"		03 37	03 44	00E
15113	HD 43673	06 12.5	+28 05	"	"	"	17.0	03 56	05 00	
15114	HD 29104	04 29.8	+19 41	"	"	"	17.0	05 13	05 27	W
	Trans. Sat.		O.T.B.	10 ^s -7 ^s			17.0			

Focus Set 15.645

Haze during early evening

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp	Setting	REMARKS
2 41	2 01W	+27 51	1-2	6.51 B ₅	3-3-3	3	Binary
2 23	1 17W	+44 58	2	6.68 A ₂	3-3-3	8	Binary Dec guiding motion sticking at start
2 52	0 46E	+49 55	2-3	6.8 Ave	3-3-3	3	Be Program Scattered Cu clouds Virtual overcast by 22 55.
0 01	1 33W	+30 26	1 ⁺	8.28 K ₀	3-3-3	3	AG 25 Partially cleared by 23 50
0 10	2 21E	+41 33	2	7.2 B _{5ne}	3-3-3	8	Be prog. { clock appears to be driving
0 27	1 54E	+63 20	3 ⁻	8.1 B _{3e}	3-3-3	3	Be prog. too fast
0 55	1 45E	-41 58	3	7.6 B _{3nex}	3-3-3	8	Be prog.
0 16	3 33W	+49 54	3	6.8 Ave	3-3-3	8	Be prog on same plate as .15105
0 30	-	-	3	5.76 A ₀	5-4	3	Binary
0 24	2 05E	+28 42	3	6.37 B ₉	3-6	8	Binary
0 22	1 47E	+28 05	3 ⁺	8.91 K ₀	3-3-3	3	AG 25 Tried to see on 10 26906 for Be prog. Is close double. Could field be prepared?
0 18	0 22W	+14 45	3	7.16 F ₈	5-4	6	Binary { Uncertain as to which of the stars took one whose δ was at least. to 19°47'
						9	
							2 PH loaded
							Sept. 16 M ₀ 50. 11.11 11.11 -77 +52 +7 +0

Date *Mon Sept 20-21, 1948* H₂ - 0 Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.
{ 15115 a	AD 192133	20 30.3	42 50	I-25	E103.0	000	+20.0	20 12	20 48
{ " b	"	"	"	"	"	"	-20.8	22 48	23 24
{ 15116 a	^{MW 317} HD 193143	19 23.0	45 05	"	"	"	+21.0	20 59	21 29
{ " b	^{MWC 23} HD 19302	01 55.6	59 12	"	"	"	+20.7	01 38	03 04
{ 15117 a	^{MW 317} HD 219313	27 22.6	49 00	"	"	"	+20.8	22 05	22 29
{ " b	"	"	"	"	"	"	-20.6	00 15	00 53
{ 15118	^{T. 1174} HD 21575	21 59.5	27 52	"	"	"	"	23 21	03 01
{ 15119	HD 6475	01 03.7	59 20	"	"	"	-20.4	01 01	01 29
{ 15120	HD 77483	01 15.2	13.38	"	"	"	+20.3	03 12	03 38
{ 15121	HD 29104	04 29.8	+19 41	"	"	"	+20.3	05 43	04 21
{ 15122	HD 36484	05 16.9	-32 44	"	"	"	20.2	04 27	05 11
{ " " "	"	"	"	"	"	"	20.2		

cloudy at first.

244

Set Focus 15.703.

Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
ε 0 02	44 57	0	6.68 A2	3,3,3	Set 2. Binary. <u>Variable cloudiness</u> ^{low level}
γ 2 25	44 58	0!	" "	3,3,3	set 8 " ^{good}
W 2 16	19 09	0	6.9 B9sex	3,3,3	Set 2 - Be Prog. ^{low}
0 48 W	+59 25	0+	8.2 B3e	3-4-2	Set. 8 Be Prog. ^{low}
ε 0 44	49 53	0	6.8 AVE	3,3,3	Set 2. Be Prog. ^{good}
γ 1 31 W	49 54	0	" "	3-3-3	Set. 8 " ^{good}
1 48 W		0	7.5? Mc	3, 6	Set 2 - Uble * clouds ^{low level}
0. 08 W	+59 34	0	6.78 Aom	3-3-3	Set. 8 Binary. ^{good}
0 57 E	+13 45	0+	6.56 F4	3-3-3	Set. 2 Binary ^{low}
0 28 E	+19 45	1	7.06 F8	3-3-3	Set. 8 Binary. Clouds moving in from East ^{low}
0 06 E	+32 46	0	6.56 A2	3-3-3	Set 2 Binary. Very hazy! ^{very good}
	OTB			10/8	Set 8 ^{good}

3 PH loaded. + 4.

Date Tues. Sept 21-22, 1929 Wm - W Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Star Angle End
15 123	HD 196 133	20 ^h 30 ^m 3	+44° 50'	1-25	E103a-C7	SE1 C63	+16.0	19 33	19 57	149
15 124	HD 182 381	19 ^h 19 ^m 3	+15° 23'	"	"	"	+16.0	20 05	21 02	27
15 125	HD 200 578	20 ^h 59 ^m 2	+28° 42'	"	"	"	+15.0	21 10	22 05	10
15 126	HD 203 351	21 ^h 54 ^m 7	+30° 03'	"	"	"	+15.3	22 16	23 46	104
15 127	HD 222 391	23 ^h 35 ^m 0	+26° 17'	"	"	"	15.8	23 51	00 59	184
15 128	196 133 MVC 28	20 30.3	44 50	"	"	"	15.9	01 07	01 41	156
15 129	123 02	01 55.6	59 12	"	"	"	15.8	01 51	03 35	183
15 130	231 41	03 37.7	26 04	"	"	"	15.6	03 41	05 21	174
<i>Focus Test</i>										

Date Wed Sept 22-23/48 L-W Julian Day.....

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Star Angle End
15131	M.W.C 292	18 17.3	25 01	I 25	E-103a0	Set .008	+14.2	19 12	19 46	10W
15132	" 308	18 52.3	59 53	"	"	"	+14.2	19 52	20 22	10W
15133	" 310	19 00.5	23 11	"	"	"	+14.2	20 27	20 57	10W
15134	" 312	19 11.3	12 56	"	"	"	+14.1	21 01	21 11	10W
15135	H.D. 106133	20 30.3	44 50	"	"	"	+14.1	21 16	21 40	10W
15136	" 209205	21 36.5	31 03	"	"	"	+14.2	22 44	23 32	10W
15137	M.W.C 397	23 02.6	49 50	"	"	"	+14.1	23 58	00 00	10W
15138	" 407	23 53.8	45 32	"	"	"	+14.1	00 05	00 15	10W
15139	H.D.	111 00 00.9	27 43	"	"	"	+14.2	00 20	01 22	10W
15140		4744 00 44.4	29 54	"	"	"	+14.1	01 25	02 57	10W
		17644 02 40.1	29 52	"	"	"	"	"	"	"
15141	H.D.	23257 03 38.6	27 37	"	"	"	14.2	03 46	04 16	10W
15142		27482 14 15.2	18 38	"	"	"	14.2	04 20	04 34	10W
15143		29124 01 29.8	19 41	"	"	"	14.1	04 37	05 57	10W
		33344 15 05.9	73 09	"	"	"	"	"	"	"
<i>Focused Test</i>										

Focus set at 15.607

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp	REMARKS
10:00	16 W	25 02	0-1	6.9 Bse	3-3-3 set 2	Be prog.
20:00	18 W	59 57	1	6.9 B4e	3-3-3 set 8	" "
20:00	194 W	23 14	1	6.9 B3e	3-3-3 set 2	" "
21:00	247 W	13 00	1-0	7.7 B3ne	3-3-3 set 8	" "
21:00	55 W	44 59	1	6.68 Ae	3-3-3 set 2	Binary
21:00	23 W	31 17	1	7.47 B3n	3-7-3 set 8	" "
21:00	46 W	49 54	2	6.8 Ave	3-7-3 set 2	Be prog
21:00	210 W	46 07	2	6.5 B3ne	3-3-3 set 8	" "
21:00	110 W	27 59	2	8.02 K25	3-3-3 set 2	A.G. 25
21:00	201 W	30 10	2	8.41 G53	3-3-3 set 8	A.G. 25
				7.64 G5	IN SETTING DEC., MOTOR CONTINUED TO DRIVE TEL. S. CIRCLES BY L.	
24:00	0 26 W	27 46	2	7.44 G0	3-3-3 set 2	A.G. 25
04:00	0 07 W	13 45	2	6.56 F4	² 3-3-3 set 8	BINARY C-MP. V. WEAK
05:00	0 35 W	19 46	2	7.06 FR	3-3-3 set 2	BINARY clouds
				5:16 Ad		BINARY clouds too thick
	O.T.B.				10/7 (2 P.H. hours + 1 hour in Sec. 7)	

Date Friday Sept 24-25 1948 H-L Julian Day.....

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Bear Angle End
15143F	Scorpius		O.T.B.	I-12 $\frac{1}{2}$	E103 α 0	Set 008	+15.0			1
15144	HD 173909	18 42.8	+27 23	I-12	E-10 α 0	008	+15.4	18 49	19 19	2
15145	173435	18 40.2	+26 08	"	"	"	+15.4	19 22	19 50	3
15146	186860	19 41.8	+30 00	"	"	"	+15.4	19 55	20 27	4
15147	191590	20 05.6	+29 26	"	"	"	+15.4	20 29	20 55	1
15148	195834	20 28.6	+28 43	"	"	"	+15.4	20 57	21 23	2
15149	199717	20 53.4	+28 53	"	"	"	+15.3	21 26	21 52	3
15150	204079	21 21.1	+26 46	"	"	"	+15.4	21 54	22 22	4
15151	209500	21 58.9	+29 17	"	"	"	+15.3	22 26	22 50	1
15152	216331	22 47.0	+29 30	"	"	"	+15.3	22 53	23 13	2
15153	AG 13853	22 59.4	+27 16	"	"	"	+15.3	23 15	23 59	3
15154	HD 223019	23 40.8	+25 47	"	"	"	+15.2	00 05	00 35	4
15155	AG 356	00 32.6	25 18	"	"	"	+15.2	00 43	01 29	1
15156	HD 5445	01 27.7	28 45	"	"	"	+15.2	01 33	02 21	2
15157	" 14624	02 10.6	25 49	"	"	"	+15.2	02 25	03 11	3

Sep. 24

NTW
-00.4

STW
+0.2

250

Charged to 12 $\frac{1}{2}$ came out 25' was Focus 15.607
set 12 $\frac{1}{2}$ tilt 20.25 (Tilt 23.18)

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
	Exposures	6/4			Set 1.5, 12.967; Set 5, 13.007; Set 8.5 12.987 Focus set to 12.997
19 9	32 W	+27 27	2-3	8.63(?) K01-2-1	AG-25 Vis mag 8.2
19 53	05 W	+26 11	2-3	8.72 G5 1-1-1	" m _r = 8.7 See very faint bluish?
20 27	40 W	+30 07	3-2	8.95 M0 1-1-1	" Clouded out 20 ⁰⁸ 20 ¹⁶ Field not quite right? HD mag 9.11
21 55	45 W	+27 35	3	8.84 K5 1-2-1	"
21 22	50 W	+28 52	2-3	8.82 K2 1-1-1	"
21 52	24 W	+29 03	2-3	8.84 K0 1-1-1	"
22 52	57 W	+26 57	2-3	8.96 G5 1-1-1	"
22 07	47 W	+27 27	3	8.72 K5 1-1-1	"
23 5	22 W	+27 45	2-3	8.64 K0 1-1-1	"
23 51	55 W	+27 31	2-3	8.93 G5 1-1-1	"
00 7	54 W	+26 04	2	8.84 K5 1-1-1	"
01 9	52 W	25 33	2	8.97 G5 1-1-1	"
01 2	49 W	23 00	2	8.95 G5 1-1-1	"
03 5	50 W	26 03	2	8.91 G5 1-1-1	"

Date Saturday Sept 25-26, 1948 Wm, O / Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
15161	HD 205316	21 29.4	175 28	L-12	E-103 ²⁰	^{Sellm.} 008	+17.8	21 40	22 10	3
15162	AG 13037	21 53.0	+28 27	"	"	"	+17.7	22 14	22 42	2
15163	HD 214434	22 33.0	125 55	"	"	"	+17.7	22 46	23 15	7
15164	AG 13862	22 59.4	+28 17	"	"	"	+17.7	23 16	23 33	2
15165	HD 223138	23 41.9	+27 52	"	"	"	+17.7	23 42	23 58	3
15166	HD 249	50 02.2	-25 54	"	"	"	+17.7	00 03	00 25	2
15167	HD 2190	00 20.8	28 23	"	"	"	17.8	00 31	00 55	2
15168	4268	00 40.0	27 25	"	"	"	17.8	00 59	02 15	1
15169	13610	02 04.7	24 55	"	"	"	17.8	02 20	03 10	1
15170	21451	03 22.4	25 56	"	"	"	17.7	03 12	03 46	1
15171	23461	03 57.6	23 56	"	"	"	17.7	03 49	04 37	1
15172	31782	04 53.5	25 47	"	"	"	17.7	04 45	05 25	1
<i>Fujis Test</i>										

About 75 centers

Long Nebula and B Egg. with 74"

Aperture with 5" aperture

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Focus. 12.997	REMARKS
22 1	00 40 W	+25 41	2	8.68 Ko	1-1-1	AG 25; poor grinding fine
22 2	00 49 W	+28 42	3-	8.93 G5	1-1-1	" " l. str.
22 3	00 39 W	+26 10	3-	8.76 Ko	1-1-1	" scratch l. str.
22 4	00 39 W	-28 34	3-	8.60 G0	1-1-1	" v. poorly ground
22 5	00 16 W	-28 08	3	8.40 M0	1-1-1	" fine
22 6	00 23 W	26 10	3	8.49 Ko	1-1-1	" scratch on plate fine
22 7	00 35 W	28 40	3	8.93 K0	1-1-1	" good
22 8	01 30 W	27 37	3	8.97 G5	1-1-1	R.A. CHECKED DEC. * STAR TAKEN DO NOT CHECK * SEE LYS POINT. wrong star taken fine
22 9	01 02 W	25 07	2	8.84 G0	1-1-1	A.G. 25 fine
22 10	00 52 W	26 26	2-1	8.65 Ko	1-1-1	" fine
22 11	00 41 W	29 02	1-0	8.75 Ko	1-1-1	" l. str.
22 12	00 11 W	25 52	0	5.02 G5	1-1-1	" " l. str.
					6/4	2 PH loaded up from centre to end

Date Sunday Sept 26-27 L. B. W. Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Star Angle End
15173	AG 10753	19 57.9	29 37	J-12 $\frac{1}{2}$	F103-0	set 008	+20.0	20 15	21 07	3
15174	AG 12135	21 01.6	30 03	I-12 $\frac{1}{2}$	F103-0	.008	+20.0	21 12	22 04	1
15175	AG 13167	22 00.6	25 10	"	"	"	+19.9	22 11	23 03	0.7
15176	HD 21683	22 49.8	28 50	"	"	"	+19.9	23 13	00 05	2.0
15177	AG 6300	08.2	26 30	"	"	"	19.8	00 09	01 05	10.0
15178	HD 7352	01 08.6	25 17	"	"	"	19.9	01 08	01 58	14.0
15179	AG 1158	02 04.5	29 20	"	"	"	19.9	02 02	03 08	17.0
15180	HD 20680	03 14.7	26 34	"	"	"	19.9	03 12	03 52	18.0
15181	26090	04 05.7	28 56	"	"	"	20.0	03 59	05 09	19.0
15182	37956	05 37.1	29 10	"	"	"	19.9	05 12	05 30	20.0

Francis Test

Start delayed, some clouds after sunset.

256

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp	REMARKS
21 43	1 13 W	29 45	1	8.97 G ₀	1-1-1	A.G. 25 fine
21 44	1 08 W	30 15	1	8.91 E ₅	1-1-1	A.G. 25 no number fine
21 43	1 07 W	25 24	1	8.93 G ₀	1-1-1	AG-25 fine
00 57	1 19 W	29 06		8.93 G ₀	1-1-1	AG-25 fine
01 55	1 00 W	26 47	1	8.79 K ₀	1-1-1	" comp. w/f. fine
01 53	0 54 W	25 35	1	8.51 G ₅	1-1-1	" 1 str
01 52	1 07 W	29 34	1	8.86 G ₀	1-1-1	" 1 str
01 52	0 53 W	26 45	1-2	8.84 G ₅	1-1-1	" poor guiding fine
05 04	1 10 W	29 04	1-2	8.96 G ₀	1-1-1	" comp. w/f. fine
04 57	0 58 E	29 10	1-2	7.56 K ₀	1-1-1	" poor guiding much to str
	O.T.B.				6/4	1 P.H. loaded & f center to red

Date *Mon. Sept. 27-28/48* L-V 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
15183	AG. 9594	19 03.0	29 03	T-12 $\frac{1}{2}$	E-103 $\frac{1}{2}$ -D	Set 008	+21.8	19 00	19 42	4
15184	" 10813	20 00.6	26 12	"	"	"	+21.8	19 47	20 25	1
15185	H.D. 196448	20 32.4	28 52	"	"	"	+21.8	20 33	21 15	2
15186	" 204923	21 26.7	25 37	"	"	"	+21.8	21 19	22 05	3
15187	AG 13246	22 06.3	25 19	"	"	"	+21.7	22 08	22 50	4
15188	" 14232	23 38.8	30 11	"	"	"	+21.6	22 56	23 40	1
15189	H.D. 224458	23 53.0	29 24	"	"	"	+21.6	23 44	00 28	2
15190	H.D. 5111	00 50.8	28 39	"	"	"	+21.6	00 33	01 37	2
15191	H.D. 11120	01 44.8	25 15	"	"	"	21.6	01 40	02 36	4
15192	18328	02 51.6	29 19	"	"	"	21.6	02 39	03 11	1
15193	22849	03 35.1	29 20	"	"	"	21.6	03 14	04 12	1
15194	27741	04 17.6	27 58	"	"	"	21.6	04 16	05 18	3
15195	36484	05 26.9	32 44	"	"	"	21.6	05 22	05 28	4
<i>Focus Test</i>										

Flour - 12.992

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp	REMARKS
17 30	0 46 W	29 07	2	8.99 G ₀	1-1-1	AG.25 pom finding l strong
20 30	0 30 W	26 20	2	8.90 G ₀	1-1-1	" " " " l strong
21 15	0 50 W	29 01	2-1	8.90 K ₀	1-1-1	" " " " fine
22 35	0 46 W	25 48	1-2	8.97 K ₅	1-1-1	" " " " l strong
22 50	0 51 W	25 33	1-2	8.90 K ₂	1-1-1	" " " " l strong
23 10	0 08 W	30 27	1-2	8.93 G ₀	1-1-1	" " " " l strong
00 28	0 44 W	29 41	1-2	8.89 K ₀	1-1-1	" " " " l strong
01 37	0 54 W	28 52	1-2	8.93 K ₀	1-1-1	" " " " fine
02 36	1 00 W	25 30	1-2	8.93 G ₅	1-1-1	" " " " fine
03 10	0 27 W	29 30	1-2	8.89 G ₅	1-1-1	" " " " fine
04 12	0 45 W	29 19	1-2	8.99 G ₅	1-1-1	" " " " l strong
05 12	1 09 W	28 04	1-2	8.93 G ₀	1-1-1	" " " " l strong
05 38	0 19 W	32 45	1-2	6.56 A ₂	1-1-1	BINARY very strong
	O.T.B.				6/4	2 P.H loaded + 4 focus

Date Tues., Sept 28-29, 1948 Wm. v.

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
15 196	HD 131 047	19 ^h 13 ^m .8	+25°11'	T-12	E103-0	SET 00B	+23.6	19 02	19 32	19 ^h 20
15 197	HD 187 162	19 ^h 43 ^m .4	+28°19'	"	"	"	+23.6	19 49	20 17	19 ^h 45
15 198	HD 187 280	19 ^h 44 ^m .1	+28°09'	"	"	"	+23.6	20 21	20 51	19 ^h 49
15 199	AG 12 158	21 ^h 03 ^m .4	+29°58'	"	"	"	+23.6	21 02	21 22	19 ^h 51
15 200	AG 12 834	21 ^h 39 ^m .6	+26°04'	"	"	"	+23.5	21 27	21 53	19 ^h 53
15 201	HD 206 899	21 ^h 40 ^m .1	+29°51'	"	"	"	+23.6	21 58	22 24	19 ^h 55
15 202	HD 208 641	21 ^h 52 ^m .6	+27°32'	"	"	"	+23.6	21 28	22 56	19 ^h 57
15 203	AG 14 185	23 ^h 32 ^m .3	+25°13'	"	"	"	+23.6	23 02	23 30	19 ^h 59
15 204	HD 223 231	23 ^h 42 ^m .6	+26°37'	"	"	"	+23.5	23 35	00 02	19 ^h 59
15 205	HD 2 343	00 ^h 22 ^m .2	+30°21'	"	"	"	23.5	00 06	00 28	19 ^h 59
15 206	HD 4 268	00 40.0	27 25	"	"	"	23.6	00 35	00 59	19 ^h 59
15 207	AG 7308 718	01 08.5	25 45	"	"	"	23.6	01 02	01 28	19 ^h 59
15 208	HD 11 721	01 49.9	25 37	"	"	"	23.6	01 34	02 04	19 ^h 59
15 209	146 24	02 16.6	25 49	"	"	"	23.6	02 08	02 34	19 ^h 59
15 210	184 03	02 52.3	26 56	"	"	"	23.6	02 39	03 09	19 ^h 59
15 211	198 23	03 06.2	29 26	"	"	"		03 13	03 35	19 ^h 59

FOCUS 12.992

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
19 5	0 ^w 30	+25°15'	2	8.83 G0	1-1-1	AG 25
20 0	0 ^w 45	+28°21'	2	8.95 G5	1-1-1	" Abt 35 students from Orlin
20 21	1 ^w 19	+28°11'	2+	8.99 K0	1-1-1	" <i>strong</i>
21 12	0 ^w 31	+30°11'	3	8.83 G0	1-1-1	" <i>strong</i>
21 53	0 ^w 25	+26°17'	3	8.89 G5	1-1-1	" <i>v. strong</i>
22 24	0 ^w 55	+30°04'	3	8.90 K5	1-1-1	" <i>Guiding</i> <i>l. strong</i>
22 56	1 ^w 15	+27°45'	2+	8.89 G5	1-1-1	" <i>fine</i>
23 01	0 ^w 01	+25°28'	2+	8.89 G5	1-1-1	" <i>v. good</i>
00 01	0 ^w 31	+26°52'	3-	8.97 K2	1-1-1	" <i>Guiding</i> <i>strong</i>
00 25	0 18 W	30 37	3	8.90 G5	1-1-1	" <i>fine</i>
00 59	0 31 W	27 40	3	8.97 G5	1-1-1	" <i>very poor guiding</i>
01 21	0 37 W	26 00	3	8.83 8.94	1-1-1	AG 25 <i>switch</i> <i>RA CLAMP NOT OPERATING PROPERLY. DOME TURNING FAILED, DRIFTER NEEDS CHECKING</i>
02 04	0 26 W	25 52	3-2	8.97 G5	1-1-1	" <i>good</i>
02 57	0 29 W	26 02	2	8.91 G5	1-1-1	" <i>fine</i>
03 11	0 29 W	27 08	2+	8.90 G0	1-1-1	" <i>fine</i>
03 26	0 40 W	29 38	3	8.93 G5	1-1-1	" <i>l. strong</i>

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
04 12	0 23 W	30 02	3	8.96 K ₃ 1-1-1	comp. very faint, weak fine
04 40	0 01 E	26 11	3	8.91 G ₅ 1-1-1	comp. weak fine
05 07	0 19 E	24 54	3	8.99 G ₅ 1-1-1	" " very poorly guided
05 35	0 00	25 37	3	8.91 K ₀ 1-1-1	strong
05 41	0 25 W	32 46	3	6.56 A ₂ 1-1-1	poorly guided strong
	OTB			6/4	1 P.H. + 8 focus OK

expansion due in ground to clamp;
try deducting 1.5 mag

	MC	SC	MTW	STW
Sep. 29	-1 ^m 34.1 ^s	+1 ^m 08.0 ^s	+07.0 ^s	+07.0 ^s
				0.3

263.

1948 Sep. 29-30 Ba - L

Date 29-30 Sept RLB & 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.
15217 15217	AC 11519	20 32.2	26 03	I-12	103A0	0.08	22.4	2032	2118
15218	HD 203471	21 17.3	28 08	"	"	"	22.3	21 26	2156
15219	HD 208457	21 51.2	25 57	"	"	"	22.1	22 04	2239
15220	HD 214332	22 32.3	29 13	"	"	"	22.1	2239	23 09
15221	HD 21953 ⁸ ₄₈	23 11.4	30 07	"	"	"	22.2	2318	2348
15222	HD 223424	23 44.3	26 29	"	"	"	22.3	2352	00 20
	Focus Test				O.T.B.				

FOCUS?

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
2118	101 W	26 14	1	8 ^m .77 K ₀ 1-1-1	AG 25. Faintly obscured by dome in first 15 min. fine
2156	0 55 W	28 20	2	8 ^m .89 K ₂ 1-1-1	AG 25 fine
2234	0 55 W	26 11	2	8 ^m .86 G ₅ 1-1-1	AG 25 NO NUMBER fine
2258	0 53 W	29 28	2	8 ^m .91 G ₅ 1-1-1	AG 25 fine
2346	0 47 W	30 23	2	8 ^m .82 K ₀ 1-1-1	AG 25 fine
0020	0 51 W	26 46	2-1	8.50 K ₀ 1-1-1	clouds stay gone at 0.20 fine
				9/4	1 plate holder loaded fine

Focus 12.992

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
19 06	W 036	25 17	3 → 2	8.56 G5	1, 1, 1 Q7. Drive creates string
19 39	W 1 02	26 16	2	8.96 G5	1, 1, 1 Terrible train smoke 1952 Drive creates - very 1st attached string
20 20	W 1 17	25 26	2	8.98 K0	1, 1, 1 scratch string
20 59	W 1 17	29 44	2	8.86 K0	1, 1, 1 grinding string
21 35	W 1 16	26 55	2	8.96 K0	1, 1, 1 grinding string
22 05	W 1 17	26 07	3 → 2	8.92 G5	1, 1, 1 string
22 38	W 0 55	28 04	2	8.93 K0	1, 1, 1
23 03	W 0 43	29 20	2	8.91 M0	1, 2 Thick 10 min after start.
	OTB			6/4	follows OK

Date

Friday, Oct 1 2/48 L/W

Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
15230	H.D. 200679	20 59.8	25 59	I-12 $\frac{1}{2}$	E10300	5CF .008	+19.4	20 41	21 15	17.1
15231	AG 12496 80 + 30° 44' 17"	21 18.5	30 16	"	"	"	+19.4	21 20	22 05	17.2
15232	H.D. 215360	22 39.5	29 05	"	"	"	+19.4	22 22	23 02	17.3
15233	" 219538	23 11.4	30 07	"	"	"	+19.3	23 07	23 41	17.4
15234	" 2254 00	26.8	27 06	"	"	"	+19.3	23 46	00 24	17.5
15235	" 4262 00	40.0	27 25	"	"	"	+19.3	00 32	01 14	17.6
15236	" 9984 01	32.4	28 24	"	"	"	19.3	01 17	01 51	17.7
15237	" 14624 02	16.6	25 49	"	"	"	19.3	01 55	02 19	17.8
	<i>Focus Test</i>									
15238	H.D. 2609 01	42.7	28 56	"	"	"	+19.0	03 59	04 19	17.9
15239	" 3224 04	58.2	30 14	"	"	"	+19.1	04 33	04 59	18.0
	<i>Focus Test</i>									

FOCUS?

Clouds early evening, showed *nicotia*
Beta Egg while observing

268

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp	REMARKS
21:15	38 W	26 10	2	8.82 K ₂	1-1-1	A.G. 25 sky hazy fine
22:00	42 W	30 28	2	8.91 K ₀	1-1-1	" " guiding star is faint, weak
23:00	45 W	29 21	2	8.91 M ₀	1-1-1	" " strong
23:30	54 W	30 24	2	8.82 K ₀	1-1-1	" " <u>strong</u>
00:00	57 W	27 23	2	8.92 G ₅	1-1-1	" " comp 2 wk. good
01:14	0 58 W	27 40	2	8.97 G ₅	1-1-1	" " fine
01:51 * grow	0 43 W	25 38	2	8.96 K ₀	1-1-1	" " VERY FAINT COMPONENT long very weak 1 wk
02:19	0 24 W	26 03	2	8.91 G ₅	1-1-1	" " clouds thick - closed up. good
		O.T.B.			6/4	center to red
					2 P.H. f 4	1 strong
04:14	0 45 W	29 04	3	8.96 G ₀	1-1-1	A.G. 25
* grow 4	0 44 W	30 17	2	8.96 K ₇	1-1-1	" " more clouds weak
		O.T.B.			6/4	center to red
					3 P.H.	Plates needed.

269

Date Sat. Oct 2-3 1948 Hd. 0/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
15240	HD 211 884	22 15.2	+25 28	F-12	E-103 ₁₀ 0	Set .008	+13.0	22 05	22 43	3
15241	HD 218 113	23 00.3	27 40	"	"	"	12.9	22 46	23 16	4
15242	HD 219 654	23 12.4	29 20	"	"	"	12.9	23 19	23 59	1
15243	HD 4549	00 42.4	26 34	"	"	"	12.8	00 03	00 41	3
15244	" 5917	00 55.6	28 29	"	"	"	12.7	00 46	01 34	3
15245	" 12426	01 56.7	29 17	"	"	"	12.7	01 38	02 34	4
15246	" 20671	03 14.6	28 27	"	"	"	12.6	02 38	03 28	1
15247	" 23169	03 37.9	25 25	"	"	"	12.6	03 32	04 22	2
15248	" 33463	05 05.3	29 18	"	"	"	12.5	04 26	05 02	3
15249	" 41430	06 00.0	29 06	"	"	"	12.5	05 06	05 42	4
	Focus Test					O.T.B.				

5 vectors shown Bejgni with 74"

270

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Focus 12.991	REMARKS
22 43	00 35 W	+25 28	0+	8.68 K ₂	1-1-1	AG-25 intermittent clouds and haze until about 9:40 EST. fine
22 6	00 43	+27 56	0	8.44 K ₂	1-1-1	" l weak
23 50	01 14	29 35	0	8.70 K ₅	1-1-1	" comp. wk. fine
00 4	02 26 W	26 49	0	8.68 G ₅	1-1-1	" v. good
01 24	03 0 W	25 43	0	8.88 G ₅	1-1-1	" fine
02 34	04 0 W	29 30	0	8.98 G ₅	1-1-1	" fine guiding v. good
03 24	05 0 W	28 37	0	8.89 G ₀	1-1-1	" fine
04 2	06 11 W	25 33	0	8.84 G ₀	1-1-1	" comp. wk. fine
05 2	07 28 W	29 50	0	8.51 M ₀	1-1-1	" fine
05 22	08 10 W	29 04	0	8.58 K ₂	1-1-1	" fine
					6/4	cont ²⁶ 7 wk. 1 of the holder located.

271

Date Sun Oct 3-4 1948 Baird 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
15250	AG 10108 AG 10108 AG 10077	19 28.3	+25 13	T 12	R105A0	at 1009	11.8	1923.	1948	
15251	AG 11233	20 19.2	+28 29	"	"	"	11.8	2012.	2034	2
15252	HD 201094	21 02.9	+22 08	"	"	"	11.8	2043	2111	3
15253	HD 205760	21 22.9	+25 10	"	"	"	11.8	2118	2142	4
15254	HD 210607	21 02.9	+29 09	"	"	"	11.8	2147	2205	1
15255	HD 21732	22 42.2	+29 22	"	"	"	11.8	2211	2229	1
15256	AG 12910	22 30	+29 56	"	"	"	11.8	2235	2253	
15257	AG 19185	23 23.2	+25 15	"	"	"	11.8	2252	2315 1/2	4
15258	HD 224358	23 52.0	+29 24	"	"	"	11.8	2324	2342	1
15259	HD 2284	00 00.0	29 25	"	"	"	11.8	2348 1/2	2407 1/2	1
15260	" 4843	00 46.5	27 13	"	"	"	11.8	00 11	00 33	1
15261	" 7368	01 22.8	25 42	"	"	"	11.8	00 37	01 01	1
15262	AG 710	01 08.5	25 45	"	"	"	11.8	01 07	03 38	1
15263	HD 20610	01 14.7	26 34	"	"	"	11.8	02 41	02 54	1
15264	" 24279	03 47.8	26 36	"	"	"	11.8	03 02	03 24	1
15265	" 26372	05 11	26 15	"	"	"	11.8	03 27	03 57	1

focus reading

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
1948	4 W	25 15	2-3	8 ^m .99	1-1-1 ? Wrong Star low motion in RA not worked ^{u good}
2039	46 W	28 37	2-3	8 ^m .77	1-1-1 AG 25 comp weak ^{u good}
2118	40 W	26 20	2-3	8 ^m .86	1-1-1 AG 25 " " ^{good}
2142	41 W	25 23	2-3	8 ^m .85	1-1-1 AG 25 " " ^{fine}
2225	38 W	29 25	3	8 ^m .89	1-1-1 AG 24 " " ^{1 weak}
2251	18 W	29 38	3	8 ^m .93	1-1-1 AG 25 " very weak guiding ^{fine}
2257	21 W	30 4	3	8 ^m .98	1-1-1 AG 25 " wh ; guiding, poor
2341	15 W	25 21	3	8 ^m .89	1-1-1 AG 25 comp. wh, probably good
2347	20 W	29 42	3	8 ^m .89	1-1-1 AG 25 " " ; " " ^{fine}
2405	19 W	29 47	3	8 ^m .86	1-1-1 AG 25 " " ; " " ^{fine}
2422	19 W	27 30	3	8.62	AG 1-1-1 " " big catch ^{u good}
2431	22 W	25 57	3	8.93	K2 1-1-1 " " field uncertain guiding ^{field}
2431	22 W	26 00	3	8.99	K0 1-1-1 THIS TOO FAINT TO BE 8.79, WOULD SAY 9.7! ^{field uncertain}
2431	16 W	26 44	3	8.84	G5 1-1-1 AG 25 " " ^{u good}
2434	28 W	26 44	3	8.77	G5 1-1-1 " " ^{fine}
2452	29 W	26 21	3	8.93	G5 1-1-1 " " ^{fine}

273

Date *Sund Oct 3-1910*

Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.
15266	HD 29246	04 31.3	25 32	1-17	F10820	.008	11.8	04 00	04 14
15267	" 3209 ²	04 55.6	26 ³²	"	"	"	11.8	04 27	04 41
15268	" 28142	05 38.2	24 35	"	"	"	11.8	04 46	05 26
15269	" 41456	06 11.2	26 58	"	"	"	11.8	05 29	05 43

Focus Test

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
05:14	0 15 W	25 37	3	8.48	21-1-1	AG 25 good
05:14	0 18 W	26 33	3	7.28 7.28	F5 21-1-1	wrong star. " " " " " " " " too strong comp too weak
05:20	0 22 W	24 54	3	8.99	G5 1-1-1	" " " " " " " " good
05:43	0 16 W	26 38	3	8.54	21-1-1	" " " " " " " " numbered 152268! fine
		O.T.B.			6/4	1 P.H. + 8 centre to red.
						Disc needs changing

Try found 12.980

276

Focus set at 2.939.0

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp.	REMARKS
19 3	0 30 W	26 15	0	8.34 K ₀	1-1-1	AG. 25
20 27	0 00 W	29 47	0	8.88 G ₀	1-1-1	" "
21 7	0 53 W	29 04	0	8.84 K ₀	1-1-1	" "
22 2	0 48 W	26 47	0-1	8.96 G ₅	1-1-1	" "
23 2	0 37 W	28 56	0-1	8.87 G ₀	1-1-1	" " Haze, clouds - staying.
	O.T.B.				6/4	
						Increasing haze & cloudiness, becoming overcast - closed.
						3 P.H. loaded.
						Oct 9 11.30 WBEN $\overbrace{\text{MC}}^{\text{MC}}$ $-1^m 46^s$ $\overbrace{\text{MTW}}^{\text{MTW}}$ -12° $\overbrace{\text{STW}}^{\text{STW}}$ $+0.2$

Date *Sat Oct 9-10 1948 Wm Ga /^W* Julian Day.....

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
15275	HD 203733	21 19.0	+29 22	1-10"	E103	Net. 0.008	+11.3°C	21 16	21 48	"23
15276	HD 221478	23 27.4	+25 58	"	"	"	+11.0	21 53	22 33	"22
15277	HD 221462	23 27.3	+26 00	"	"	"	+10.9	22 30	23 14	"4
15278	HD 2084	20 20.0	+22 33	"	"	"	+10.9	23 20	00 14	"01
15279	8300	01 17.2	+26 03	"	"	"	11.0	00 18	01 52	"01
15280	176730	24 40.1	30 06	"	"	"	11.0	01 56	03 46	"01
15281	81722	04 52.5	25 47	"	"	"	10.9	02 50	05 18	"01
	<i>Focus Test</i>									

Focus 12.98? Temp. +11.5
Focus 12.98 Temp 11.6

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS								
1852	30 30 W	2° 15	1-2	2 ^h 42 M0	2-2-2 See Plat 15250 set 2.4 → fine ← 500 l exp. string								
1853	1 52 W	+2° 52	2	3 ^h 13 K2	2-2-2 ← Start as wrong star - 5m exp. Light								
2-72	1 52 W	+2° 53	2	5.58 K5	1-2-1 AG-25 fine								
21	1 53 W	+2° 53	2-1	8.85 K5	1-2-1 " Light about 200 m. + cloud - 10 min focus slightly to rear (centre exposure wrong)								
				O.T.B. 7/5 ^s setting 10									
				Oct. 13	<table border="1"> <thead> <tr> <th>MC_s</th> <th>SC_s</th> <th>MTW_s</th> <th>STW_m</th> </tr> </thead> <tbody> <tr> <td>-1^m 52.0</td> <td>+1^m 19.9</td> <td>+15.6</td> <td>+0.3</td> </tr> </tbody> </table>	MC _s	SC _s	MTW _s	STW _m	-1 ^m 52.0	+1 ^m 19.9	+15.6	+0.3
MC _s	SC _s	MTW _s	STW _m										
-1 ^m 52.0	+1 ^m 19.9	+15.6	+0.3										

Ba

Date 1748 Oct 13-14 ~~RLR~~ / 14..... 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
13286	HD 212577	22 24 20.2	28 11	[12	103A0	"	+9	21 16	21 46	
15287	HD 218170	23 00.1	28 29	"	"	"	+9	21 52	22 02	
15288	HD 221133	23 29.3	25 16	"	"	"	8.9	22 10	22 20	
15289	HD 22269	23 48.1	25 27	"	"	"	8.9	22 39	22 50	
15290	AG 27	24 00.2	29 54	"	"	"	8.7	23 00	23 14	
15291	HD 2716	00 35.7	29 28	"	"	"	8.7	23 23	23 53	
15292	AG 214	01 21.3	26° 59' 26 59	"	"	"	8.9	00 04	00 46	
15293	AG 1.681	01 49.0	26 07	"	"	"	78.7	00 49	01 39	
15294	111 2-505	03 48.0	27 54	"	"	"	8.9	02 37	03 31	
15295	32-112	04 20.2	26 20	"	"	"	8.9	03 35	04 11	
15296	30-212	02 00.0	27 48	"	"	"	9.0	01 11	01 54	
15297	36-484	02 26.4	26 04	"	"	"	9.0	04 13	04 49	
15298	45-242	06 13.5	28 00	"	"	"	9.0	04 20	05 37	

Jan 12. 1980

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
7:4		23 26	0-1-2	8 ^m .70 K0	2-2-2 Variable clouds
8:20	171 W	23 43	3	8 ^m .16 K5	2-2-2 <i>comparing some</i>
8:50	170 W	24 22	3	8 ^m .26 K2	2-2-2 Cloud at end / exposure. strong
9:20	170 W	25 44	2-3	8 ^m .32 K0	2-2-2 Clouds dark water somewhat strong
9:50	171 W	30 11	2-3	8 ^m .38 G5	2-2-2 <i>dark strong</i>
10:20	200 W	29 43	1-2	8 ^m .91 G0	2-2-2 ← " <i>fine</i>
10:50	200 W	27 16	1-2	8 ^m .81 K2	1-2-1 A.G. 25 <i>good</i>
11:20	200 W	27 01	1-2	8.98 G5	1-2-1 HIGH CIRRUS CLOUDS. THICKENING <i>fine</i>
		0 5.15			<i>excellent to see.</i>
11:50	200 W	28 32	1-2	8.97 G5	1-2-1 <i>much too strong</i>
12:20	200 W	28 35	1-2	8.88 G5	1-2-1 <i>SEEMS TOO DARK TO SEE</i> " " "
12:50	200 W	28 50	2	8.61 M0	1-2-1 <i>guiding strong</i>
1:20	200 W	30 44	2-3	8.56 A2	1-2-1 <i>strong</i>
1:50	200 W	30 50	2-3	8.71 K0	1-2-1 <i>clouds strong</i>
					<i>2 P.H. + 0</i>

Date *June Oct 14. 1948* *W. 2. 4* Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Short Angle End
15299	HD. 5714	01 30.0	29 46	T-12	F-123.0	^{cut} 000	+10.5	00 30	01 30	
15300	" 14419	02 45.2	29 14	"	"	"	+10.5	01 05	01 45	
15301	" 16070	02 30.1	29 25	"	"	"	+10.4	01 40	02 10	
15302	" 17963	02 48.1	29 42	"	"	"	+10.2	02 20	02 50	
15303	" 20367	03 17.5	27 50	"	"	"	+10.4	02 01	02 21	
15304	" 30085	04 50.4	26 57	"	"	"	+10.3	03 25	03 45	
15305	" 36454	05 21.5	23 44	"	"	"	+10.2	03 05	03 35	
15306	" 39446	05 47.4	25 02	"	"	"	+10.2	04 03	04 29	
15307	" 42081	06 48.5	25 17	"	"	"	+10.2	04 02	04 31	
15308	" 44612	06 17.5	27 01	"	"	"	+10.5	03 25	04 05	
	<i>June 1st</i>				<i>C.P. 1</i>					

Flows 12.980

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp	REMARKS
						Clouds all morning looking around 23.00 startful from 23.35 - 23.45
01:32	140 W	28 02	1	8.88 G5	1-1-1	AG. 25 much too strong
01:40	132 W	27 27	1	8.85 G5	1-1-1	" " too strong
01:48	124 W	27 50	2	8.82 K0	1-1-1	" " strong
01:56	116 W	29 37	2	8.82 G0	1-1-1	" " strong
02:04	108 W	28 06	2	8.78 G5	1-1-1	" " too strong
02:12	100 W	26 41	2	8.79 K0	1-1-1	" " fine
02:20	92 W	25 42	2	8.78 A0	1 $\frac{1}{2}$ -1 $\frac{1}{2}$	Binary much too strong
02:28	84 E	25 08	2	8.75 G5	1-1-1	AG 25 too strong
02:36	76 W	25 42	2	9.3 K0	1-1-1	" "
02:44	68 W	29 00	2	8.69 G0	1-1-1	" "
					0/A	4 PM. ended.

Ba

Date Fri. Oct. 15-16, 1948. W. H. L. Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
15309	H.D. 184456	19 18.7	+25 08	I-12 1/2	K.103a	0.008	+12.5	18 12	19 02	3
15310	194403	20 20.3	25 26	"	"	"	+12.5	19 04	19 44	4
15311	A.G. 12135	21 02.6	30 03	"	"	"	+12.6	19 47	20 33	1
15312	H.D. 208641	21 52.6	27 32	"	"	"	+12.5	20 36	21 14	2
15313	A.G. 13568	22 31.2	29 35	"	"	"	+12.5	21 17	22 01	1
15314	H.D. 220286	23 17.5	28 53	"	"	"	+12.5	22 04	22 38	1
15315	224458	23 50.0	29 24	"	"	"	+12.5	22 40	23 12	1
15316	A.G. 36600	32.6	25 18	"	"	"	+12.5	23 14	23 48	1
15317	H.D. 4308	01 08.2	25 42	"	"	"	+12.5	23 51	00 15	1
15318	H.D. 10291	01 30.1	27 52	"	"	"	+12.5	00 15	00 48	1
15319	H.D. 12972	02 00.0	28 17	"	"	"	12.2	00 47	01 13	1
15320	H.D. 12153	02 20.4	28 31	"	"	"	+12.5	01 12	01 45	1
15321	H.D. 11500	02 38.8	28 47	"	"	"	+12.5	01 32	02 05	1
15322	A.G. 31000	03 00.0	29 11	"	"	"	+12.5	02 02	02 35	1
15323	H.D. 21981	03 15.1	29 10	"	"	"	+12.5	02 32	03 05	1
15324	H.D. 22711	03 30.9	29 30	"	"	"	+12.5	03 02	03 35	1

Dome temp. start +54°F.

Try focus 12.970
Focus set 12.970

286

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
19 02	1 01 W	+25 15	0	8.54 G0	1-2-1 scattered cloud + haze at start, east wind!
19 44	0 42 W	25 45	0-1	8.72 K51-2-1	fine
20 33	0 49 W	30 15	0-1	8.91 G51-2-1	fine
21 14	0 40 W	27 45	1	8.89 G51-2-1	fine
22 01	0 48 W	29 50	1	8.95 G01-2-1	fine
22 31	0 39 W	29 09	1	8.96 G51-2-1	fine
23 12	0 36 W	29 41	1	8.89 K01-2-1	fine
23 42	0 34 W	25 33	2	8.99 G51-2-1	number nearly touches companion
24 11	0 26 W	25 58	3-3	8.83 K21-2-2	very good
24 45	0 25 W	25 13	2	8.75 K02-2-2	numbered 15319
25 13	0 21 W	24 31	2-3	8.75 Ao	Wrong star identified on programme
25 44	0 18 W	24 00	3	8.75 K02-2-2	very good
26 14	0 14 W	23 15	2-3	8.71 K02-2-2	very good
26 44	0 10 W	22 21	2-3	8.70 K02-2-2	partly hidden
27 14	0 07 W	21 31	2	8.70 K02-2-2	partly hidden
27 44	0 03 W	20 41	2	8.70 K02-2-2	partly hidden
28 14	0 00 W	19 51	2	8.70 K02-2-2	partly hidden

15-16

Ba

Date

Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.
15724	44 25 00	25 42 00	26 30	300	200		11	23 45	23 26
15725	44 25 00	25 42 00	26 30				11	23 35	23 19
15726	44 25 00	25 42 00	26 30				11	23 34	04
15727	44 25 00	25 42 00	26 30				11	23 16	
15728	44 25 00	25 42 00	26 30				12.1	23 00	
15729	44 25 00	25 42 00	26 30				12.1	23 07	
15730	44 25 00	25 42 00	26 30				13.1	23 35	
15731	44 25 00	25 42 00	26 30						
15732	44 25 00	25 42 00	26 30						
15733	44 25 00	25 42 00	26 30						
15734	44 25 00	25 42 00	26 30						
15735	44 25 00	25 42 00	26 30						
15736	44 25 00	25 42 00	26 30						
15737	44 25 00	25 42 00	26 30						
15738	44 25 00	25 42 00	26 30						
15739	44 25 00	25 42 00	26 30						
15740	44 25 00	25 42 00	26 30						
15741	44 25 00	25 42 00	26 30						
15742	44 25 00	25 42 00	26 30						
15743	44 25 00	25 42 00	26 30						
15744	44 25 00	25 42 00	26 30						
15745	44 25 00	25 42 00	26 30						
15746	44 25 00	25 42 00	26 30						
15747	44 25 00	25 42 00	26 30						
15748	44 25 00	25 42 00	26 30						
15749	44 25 00	25 42 00	26 30						
15750	44 25 00	25 42 00	26 30						
15751	44 25 00	25 42 00	26 30						
15752	44 25 00	25 42 00	26 30						
15753	44 25 00	25 42 00	26 30						
15754	44 25 00	25 42 00	26 30						
15755	44 25 00	25 42 00	26 30						
15756	44 25 00	25 42 00	26 30						
15757	44 25 00	25 42 00	26 30						
15758	44 25 00	25 42 00	26 30						
15759	44 25 00	25 42 00	26 30						
15760	44 25 00	25 42 00	26 30						
15761	44 25 00	25 42 00	26 30						
15762	44 25 00	25 42 00	26 30						
15763	44 25 00	25 42 00	26 30						
15764	44 25 00	25 42 00	26 30						
15765	44 25 00	25 42 00	26 30						
15766	44 25 00	25 42 00	26 30						
15767	44 25 00	25 42 00	26 30						
15768	44 25 00	25 42 00	26 30						
15769	44 25 00	25 42 00	26 30						
15770	44 25 00	25 42 00	26 30						
15771	44 25 00	25 42 00	26 30						
15772	44 25 00	25 42 00	26 30						
15773	44 25 00	25 42 00	26 30						
15774	44 25 00	25 42 00	26 30						
15775	44 25 00	25 42 00	26 30						
15776	44 25 00	25 42 00	26 30						
15777	44 25 00	25 42 00	26 30						
15778	44 25 00	25 42 00	26 30						
15779	44 25 00	25 42 00	26 30						
15780	44 25 00	25 42 00	26 30						
15781	44 25 00	25 42 00	26 30						
15782	44 25 00	25 42 00	26 30						
15783	44 25 00	25 42 00	26 30						
15784	44 25 00	25 42 00	26 30						
15785	44 25 00	25 42 00	26 30						
15786	44 25 00	25 42 00	26 30						
15787	44 25 00	25 42 00	26 30						
15788	44 25 00	25 42 00	26 30						
15789	44 25 00	25 42 00	26 30						
15790	44 25 00	25 42 00	26 30						
15791	44 25 00	25 42 00	26 30						
15792	44 25 00	25 42 00	26 30						
15793	44 25 00	25 42 00	26 30						
15794	44 25 00	25 42 00	26 30						
15795	44 25 00	25 42 00	26 30						
15796	44 25 00	25 42 00	26 30						
15797	44 25 00	25 42 00	26 30						
15798	44 25 00	25 42 00	26 30						
15799	44 25 00	25 42 00	26 30						
15800	44 25 00	25 42 00	26 30						

*Need
check*

1st one 2
2nd one 2

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
03	11	24 54	2	8.13 80	2-2-2
04	12	24 54	2	8.13 80	2-2-2
04	13	24 54	2-3	8.13 80	2-2-2
	14	24 54	2-3	8.13 80	2-2-2
	15	24 54	2-3	8.13 80	2-2-2
	16	24 54	2-3	8.13 80	2-2-2
	17	24 54	2-3	8.13 80	2-2-2
	18	24 54	2-3	8.13 80	2-2-2
	19	24 54	2-3	8.13 80	2-2-2
	20	24 54	2-3	8.13 80	2-2-2
	21	24 54	2-3	8.13 80	2-2-2
	22	24 54	2-3	8.13 80	2-2-2
	23	24 54	2-3	8.13 80	2-2-2
	24	24 54	2-3	8.13 80	2-2-2
	25	24 54	2-3	8.13 80	2-2-2
	26	24 54	2-3	8.13 80	2-2-2
	27	24 54	2-3	8.13 80	2-2-2
	28	24 54	2-3	8.13 80	2-2-2
	29	24 54	2-3	8.13 80	2-2-2
	30	24 54	2-3	8.13 80	2-2-2
	31	24 54	2-3	8.13 80	2-2-2

Tues Oct 19-20 First half: clear intervals but mostly cloudy.

	HC	SC	MTW	STW
Oct. 20	-1 ^m 59.8	+1 ^m 24.2	-33 ^a	0 ^m

Date Wed Oct 20-24 1944 Ba. v. 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
15332	AG 11571	20 34.7	26 21	"	"	"	5.9	1917	1945	
15333	AG 13039	22 06.3	+25 19	"	"	"	5.9	2001	2040	
15334	AG 13246	21 00.1	26 06	"	"	"	5.9	2007	2127	
15335	AG 13253	21 00.1	26 06	"	"	"	5.9	2148	2307	
15336	AG 3250	20 34.2	26 12	"	"	"	5.9	2315	2335	
15337	AG 9289	21 20.1	26 06	"	"	"	5.7	2340	2400	
15340	AG 991	01 44.0	28 12	"	"	"	5.9	00 06	00 16	
15341	H.D. 16099	02 20.1	29 26	"	"	"	5.9	00 49	01 15	
15342	18403	02 52.3	26 56	"	"	"	5.9	01 18	01 31	
15343	23169	03 37.9	25 25	"	"	"	5.9	01 54	02 16	
15344	25834	04 00.6	30 00	"	"	"	5.9	02 30	02 46	
15345	27741	04 17.6	27 58	"	"	"	5.9	02 49	03 21	
15346	32447	04 58.2	30 14	"	"	"	5.9	03 34	03 52	
15347	33142	05 38.5	24 53	"	"	"	5.9	03 55	04 19	

Force 12.970
 June Temp 41

290

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
		26 38	2-3	8 ^m .86 KO	2-2-2 <u>this plate loaded back to front?</u> YES
01:45	35 W	26 31	1-2	8 ^m .86 KO	2-2-2 Clouding up at 19:45
02:00	35 W	28 41	2-3	8 ^m .12 ES	2-2-2 comp. about out poorly guided ?
02:05	39 W	28 34	3	8 ^m .40 KO	2-2-2
02:07	39 W	29 19	3	8 ^m .40 KO	2-2-2 } comp. & strong poorly guided
02:07	39 W	29 33	2-3	8 ^m .86 ES	2-2-2 } numbered 15338
02:07	39 W	28 29	2-3	8 ^m .89 ES	2-2-2 } 22.30
02:10	39 W	30 22	2-3	8 ^m .71 KO	2-2-2 } very poorly guided
02:16	0 40 W	28 26	2-3	8.88 G 5	1-2-1
02:15	0 22 W	29 39	2-3	8.92	K 01-2-1
02:15	0 36 W	27 09	2-3	8.90	G 01-2-1
02:16	0 16 W	25 33	3	8.84	G 01-2-1
02:16	0 24 W	20 07	3	8.96	K 81-2-1
02:22	0 41 W	28 04	3	8.93	G 01-2-1
02:50	0 32 W	30 19	3	8.96	K 71-2-1
02:11	0 19 W	24 54	3	8.99	G 51-2-1

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp.	REMARKS
05 22	0 38 W	25 16	3	9.3	K ₂ 1-2-1	strong
05 24	0 18 W	25 32	3	8.51	K ₂ 1-2-1	poorly guided strong
05 38	0 12 W	26 36	3	8.84	K ₀ 1-2-1	fine
05 53	0 20 W	26 26	3	8.51	K ₀ 1-2-1	strong
06 06	0 16 W	25 03	3	7.92	G ₀ 1-2-1	much too strong
		OTB			6/4	but not exposure too long, centre sl. to red
						4 P.H. LOADED + 4 IN DOME.

Date *Thurs, Oct 21/22, 1918* Wm - \V

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
15 353	HD 201 626	21 05 ^m .7	+26°13'	I - 12	103a-D	²⁶⁷ 008	+8.0 C	19 23	20 15	
15 354	HD 209 457	21 59.4	+29°12'	"	"	"	+7.9	20 19	21 17	
15 355	AG 13 910	3 03.5	+70°55'	"	"	"	+7.9	21 20	22 18	
15 356	HD 598	00 05.3	+28°06'	"	"	"	+7.9	22 16	23 15	
15 357	HD 5462	00 51.3	+15°48'	"	"	"	+7.9	23 03	23 49	
15 358	AG 1077	01 52.7	+25°13'	"	"	"	+7.9	23 53	00 35	
15 359	HD 14876	02 18.9	+27°13'	"	"	"	7.9	00 37	01 23	
15 360	H.D. 19485	03 02.8	25 13	"	"	"	7.9	01 25	02 01	
15 361	24399	03 47.8	26 36	"	"	"	7.9	02 04	02 38	
15 362	27741	04 17.6	27 58	"	"	"	8.0	02 40	03 28	
15 363	A.G. 2603	05 35.3	29 13	"	"	"	7.9	03 32	04 20	
15 364	H.D. 42454	06 05.7	29 51	"	"	"	7.9	04 22	05 08	
15 365	51834	06 53.8	27 55	"	"	"	8.0	05 10	05 44	
15 366	59684	07 26.0	27 21	"	"	"	7.9	05 47	06 29	
<i>Focus Test</i>										

Some clouds at starting time - but not that many.

FOCUS 12.370

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
01:43	03:43	+26°25'	0	8.85 K2 1-2-1	AG25 Some fog - maybe - and
01:58	03:58	+29°25'	0	8.99 K5 1-2-1	AG25
02:13	04:13	+30°10'	0+	8.93 G5 1-2-1	AG25 fine
02:30	04:35	-23°21'	0+	8.70 M2 1-2-1	AG25 fine
02:44	04:39	+26°04'	0+	8.97 M0 1-2-1	AG25 good
02:58	04:24	+25°32'	1-0	8.93 G0 1-2-1	AG25 fine
03:13	04:16 W	27 25	1	8.70 K0 1-2-1	AG25 fine
03:28	04:10 W	25 25	1	8.70 G5 1-2-1	" " " "
03:43	04:02 W	26 45	1	8.77 G5 1-2-1	" " " " mostly good
03:58	04:05 W	28 05	1	8.93 G0 1-2-1	" " " " fine
04:13	04:26 W	29 15	1	8.70 G0 1-2-1	TOO FAINT FOR 870
04:28	04:44 W	29 30	1	8.68 G5 1-2-1	HAS A VERY FAINT BLUE COMPONENT.
04:43	04:33 W	29 50	1	8.68 K0 1-2-1	AG 25 mostly good too blue
05:03	04:25 W	27 14	1	8.37 K0 1-2-1	" fine
		O.T.B.		6/4	

B. P. H. LEANED + 12 IN DOME

Date *Mon Oct 25-26/49* L.V. 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
15367	H.D. 193011	20 12.9	29 48	I. 12 $\frac{1}{2}$	E-103 α 0	5- 008	+10.5	18 25	19 15	
15368	AG. 12015	20 57.5	26 51	"	"	"	+10.5	19 20	20 00	
15369	H.D. 209680	22 00.1	29 28	"	"	"	+10.4	20 05	21 09	
15370	HD 217351 AG 1382	55-0 22 54.8	32 29 55	"	"	"	+10.3	21 13	21 41	
15371	H.D. 221170	23 24.6	29 53	"	"	"	+10.2	21 48	22 06	
15372	" 1996	00 19.1	25 51	"	"	"	+10.1	22 11	22 29	
15373	" 2713	00 25.6	27 34	"	"	"	+10.1	22 34	22 52	
15374	" 5584	00 52.5	29 47	"	"	"	+10.0	22 54	23 12	
15375	" 9638	01 29.4	28 36	"	"	"	+10.0	23 17	23 37	
15376	" 10766	01 40.2	25 54	"	"	"	+10.0	23 41	00 01	
15377	" 12052	01 53.2	28 23	"	"	"	10.1	00 01	00 30	
15378	" 16099	02 30.1	29 26	"	"	"	10.1	00 34	00 50	
15379	" 15103	02 52.0	26 56	"	"	"	10.1	00 08	01 20	
15380	" 20571	03 14.6	25 27	"	"	"	10.1	01 22	01 50	
15381	" 25461	03 57.6	22 56	"	"	"	10.1	01 53	02 13	
15382	" 26090	04 02.7	19.06	"	"	"	10.1	02 11	02 43	

N.B. From now on please put 2 spectra on each plate

Oct 25 $\mu C = -2^m 04^s$ $SC = +1^m 27^s$ $MTW = -04^m 3$ $STW = +04^m$ 296

Focus 12.970

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp.	REMARKS
11:5	1:55 N	29 57	0-1	8.93 Ke	1-1-1	AG.25 } set 2.5 fine
20:5	1:50 W	27 03	1	8.91 G0	1-1-1	" } " 7.5 fine
21:5	1:55 W	29 43	1-2	9.8 K5	1-1-1	" } set 2.5 fine
22:5	1:55 W	29 43	2	8.72 ^{8.4} A2 G5	1-1-1	" } " 7.5 too strong
22:5	1:50 W	30 08	2	8.43 K0	1-1-1	" } set 2.5 guiding
22:5	1:57 W	29 07	2-3	8.69 G5	1-1-1	" } " 7.5 guiding
22:5	1:52 W	27 50	3	8.60 G0	1-1-1	" } set 2.5 in guiding -
23:5	1:57 W	30 03	3	8.82 G0	1-1-1	" } " 7.5 in guiding -
23:5	1:55 W	28 50	3	8.83 K0	1-1-1	" } set 2.5 better
02:0	1:58 W	26 09	3	8.84 G5	1-1-1	" } " 7.5 fine
02:2	1:55 W	28 36	3	8.85 G5	1-2-1	" } set 2.5 fine
02:5	1:52 W	29 40	3	8.92 K0	1-2-1	" } " 7.5 good
03:2	1:52 W	27 07	3	8.90 G0	1-2-1	" } set 2.5 in guiding
03:5	1:52 W	28 52	3	8.89 G0	1-2-1	" } " 7.5 fine
04:5	1:53 W	29 02	3	8.75 K0	1-2-1	" } set 2.5 better
05:2	1:50 W	29 02	3	8.76 G0	1-2-1	" } " 7.5 too strong

Date *Mon Oct 25-26/42* V. Julian Day.....

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	
15353	HD	31781	0453.5	26 06	I 12	E 133aD	.008	10.1	02. 44	03 14
15354	A.G.	2603	05 25.5	29 13	"	"	"	10.1	03 17	03 57
15355	H.D.	32750	05 42.9	25 36	"	"	"	10.1	03 55	04 19
15356	"	45800	06 24.5	25 57	"	"	"	10.1	04 22	04 45
15387	"	51690 51690	06 53.3	25 11	"	"	"	10.1	04 50	05 00

Focus Test

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
03 4	0 15 W	26 11	3	8.91 G ₀₁₋₂₋₁ A.G. 2.5	Set 2.5 1 time
03 5	0 15 W	27 14	3	8.70 G ₀₁₋₂₋₁ " "	" 7.5 2 times
04 4	0 34 W	25 37	3	8.91 K ₀₁₋₂₋₁ " "	Set 2.5 fine
04 5	0 34 W	25 55	3	8.91 K ₀₁₋₂₋₁ " "	" 7.5 good.
05 07	0 55 W	25 17	3	8.8 9.1 G ₀₁₋₂₋₁ " "	Set 2.5 Phase check if right star much 1.5 at 1.5 " 7.5 focus OK
		O.T.B.		6/4	
					2 P.H. + 0 IN DOME

299

Date Tuesday, Oct ²⁶⁻²⁷ 25-6, 1918 Wm - XV Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.
15 388	HD 107227	20 37.3	+23 28	" - 12"	L1021 C	002	+12.8	18 21	18 55
15 389	AG 11823	20 46.3	+28 20	"	"	"	+12.7	19 04	19 34
15 390	HD 206978	21 40.7	+29 56	"	"	"	+12.7	19 40	20 10
15 391	HD 213957	22 29.3	+20 14	"	"	"	+12.6	20 15	20 47
15 392	HD 218610	23 04.3	+25 23	"	"	"	+12.6	21 25	21 51
15 393	HD 2190	00 20.8	+28 23	"	"	"	+12.6	21 58	22 20
15 394	HD 5411	00 50.3	+20 30	"	"	"	+12.6	22 25	22 45
15 395	HD 0446	01 27.7	+29 45	"	"	"	+12.6	22 54	23 18
15 396	AG 066	01 40.9	+29 03	"	"	"	+12.6	23 23	23 45
15 397	HD 11 120	01 44.3	+25 15	"	"	"	+12.6	23 51	00 15
15 398	" 13017	02 02.3	+29 05	"	"	"	+12.6	00 18	00 48
15 399	" 15603	02 54.4	31 09	"	"	"	+12.6	00 52	01 18
15 400	" 20680	03 2.7	26 34	"	"	"	+12.6	01 20	01 42
15 401	" 26372	04 05.1	26 15	"	"	"	+12.6	01 56	02 22
15 402	" 27741	04 17.6	27 58	"	"	"	+12.7	02 24	03 00
15 403	AG 2626	05 35.6	26 13	"	"	"	+12.6	03 04	03 32

Focus: 12.970

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
18:5	0° 19	+25° 10'	1+	8.82 G5	1-2-1	AG25-Set 2.5 } Considerable haze -
19:5	0° 13	+25° 20'	2	8.92 K0	1-2-1	AG25 Set 7.5 } " " -
20:5	0° 31	+30° 11'	2	8.89 G0	1-2-1	Set 2.5 } AG25 " " -
20:7	0° 20	+25° 28'	2-	8.77 K0	1-2-1	Set 7.5 } AG25 ^{no guiding} _{SHOWER NIS TO NIS = 148 P 500 NIS} " " ^{good} -
21:5	0° 13	+26° 37'	2+	8.33 K0	1-2-1	Set 2.5 } AG25 ^{no guiding} " " -
22:1	0° 00	+23° 33'	3	8.93 K5	1-2-1	Set 7.5 } AG25 " " ^{good} -
22:5	0° 05	+29° 51'	3	8.23 K0	1-2-1	Set 2.5 } AG25 " " ^{good} -
23:1	0° 10	+25° 00'	3	8.95 G5	1-2-1	Set 7.5 } AG25 ^{no guiding} " " -
23:4	0° 06	+29° 17'	3-	8.88 G0	1-2-1	Set 2.5 } AG25 ^{no guiding} " " -
00:5	0° 32W	+25° 29'	2-	8.93 G5	1-2-1	Set 7.5 } AG25 " " ^{good} -
00:7	0° 45W	29° 19'	3	8.98 K0	1-2-1	Set 3 " " ^{good} -
01:4	0° 25W	26° 23'	3	8.91 K0	1-2-1	" 7 " ^{very bad guiding} ^{too bad} -
01:3	0° 9W	26° 44'	3	8.84 G5	1-2-1	Set 3 " " ^{good} -
02:2	0° 19W	26° 22'	3	8.93 G0	1-2-1	" 7 ^{HAD TO RUN DEC. MOT. IN BAR} " " ^{good} -
03:0	0° 44W	28° 04'	3	8.93 G0	1-2-1	Set 3 AG25 HAZE ^{not} -
03:1	0° 1E	26° 13'	3	8.30 M0	1-2-1	" 7 AG25 " ^{not} -

301

26-27

Date *Tues. Oct. 25th 1948* W. Julian Day.....

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
15404	H.D.	39416	0547.4	2503	I-12	E103al	.008	112.6	03 37	* gone 03 55
			<i>Focus</i>	<i>Test</i>						

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS										
6.9m 6.55	09.4	25.04 0.7.3.	3	8.75 G.5	1-2-1 Alg 25 Dome enshrouded in fog 6/4 Sat. 7 <i>weat</i> <i>centre slightly to violet</i>										
					4 P.H. + 1										
					<table border="0"> <tr> <td></td> <td>nc</td> <td>sc</td> <td>MTW</td> <td>STW</td> </tr> <tr> <td>Oct. 27</td> <td>-01.8</td> <td>+34.5</td> <td>+05.8</td> <td>+0.6^m</td> </tr> </table>		nc	sc	MTW	STW	Oct. 27	-01.8	+34.5	+05.8	+0.6 ^m
	nc	sc	MTW	STW											
Oct. 27	-01.8	+34.5	+05.8	+0.6 ^m											

364

Ending Time
E.S.T.

305

