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1

Centre to violet, shorten the focus (increase micrometer reading)

ding

3

Hour Angle
End

Ending Time
E.S.T.Hour Angle
End

Declination

Seeing

Ptg. Mag.

REMARKS

$\alpha = 20$ $\delta = -58^\circ$ $\rightarrow 1.306$ $+22.7$ 10.1

Date Monday June 30 - July 1. $\frac{Y}{T_h}$ Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Ang End
^{3 5} 15734	H.D. ^{E 216} 137052	15 ^h 18. ^m 8	-9° 57'	I-25"	E103a-0	.008	29.2	21 ^h 00 ^m	21 ^h 12 ^m , 2	0 ^h 8'
^{3 5} 15735	H.D. 158013	17 ^h 21. ^m 7	+57° 05'	"	"	"	"	21 ^h 34 ^m	22 ^h 04 ^m , 3	0 ^h 53'
^{3 5} 15736	H.D. ^{67 cph} 164353	17 ^h 55. ^m 6	+2° 56'	"	"	"	"	22 ^h 31 ^m	22 ^h 35 ^m	0 ^h 40'
"	"	"	"	"	"	"	"	22 ^h 38 ^m	22 ^h 35 ^m	
"	"	"	"	"	"	"	"	22 ^h 35 ^m	22 ^h 39 ^m	
^{3 5} 15737	H.D. 163506	17 ^h 57. ^m 4	+26° 4'	"	"	"	"	22 ^h 54 ^m	23 ^h 09 ^m , 2	0 ^h 50'
^{3 5} 15738	162714	17 47.3	-6° 7'	"	"	"	29.2	03 27	00 17	0 ^h 47'
^{3 5} 15739	167472	18 10.3	+29 12	"	"	"	29.1-29.0	00 24	02 04	0 ^h 29'
^{3 5} 15740	158013	17 21.7	+57 05	"	"	"	29.0	02 14	02 44	0 ^h 30'
^{3 5} 15741	{ 164042	17 54.2	+27 23	"	"	"	29.0	00 57	03 47	0 ^h 48'
		From Post								0 ^h 58'

Focus set 15.834



Var. read. 23-25

Checked plunger + flipped

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
21 ^h 12 ^m	0 ^h 8 ^m W	-10° 9'	0-1	5.36 F ₀	3-3-3 Thin clouds
21 ^h 14 ^m	0 ^h 53 ^m E	+57° 04'	"	6.61 A ₂	3-3-3 sp. Bi. Intermittent clouds
21 ^h 15 ^m	0 ^h 00 ^m E	+2° 54'	"	3.80 B _{5p}	10
21 ^h 18 ^m	"	"	"	" "	10 } 3 exp. on one plate
21 ^h 20 ^m	"	"	"	" "	5-5
21 ^h 23 ^m 09 ^s	0 ^h 30 ^m E	+26° 04'	1	5.90 F _{5p}	3-3-3 PH #2 LOADED WRONG Thin clouds
21 ^h 27 ^m	0 ^h 43 ^m W	-6 08	1	7.2 G _{0p}	3-3-3
21 ^h 02 ^m 0-	02 ^h 09 ^m W	-28 10	1-2	7.58 K ₀	3-3-3 T.H.I.N. CLOUDS
21 ^h 02 ^m 44	02 ^h 38 ^m W	+57 03	1-3-2	6.61 A ₂	3-3-3
21 ^h 03 ^m 47	04 ^h 08 ^m W	27 23	1-0	5.34 K ₂	3-3-3 STILL THIN CLOUDS; 20 MIN TO GO
	CTB	10/4			
				1 PH LDD	
				PLATES NEEDED	

Lens +20.9, Focus set 15.701
 Checked plungers & flipper, prism position

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Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp.	REMARKS
00 18	3 35 W	+27° 36	0.01 2.01 2.01	8.93 K ₀	3~3~3	sky perfectly clear. Seeing good
00 55	1 57 W	57 02	1	6.61 A ₂	3-3-3	BINARY strong
02 46	1 39 W	25 13	1	8.42 M ₀	3-3-3	AG 25  weak
03 50	0 45 W	28 21	1	7.54 K ₂	3-3-	AG 25  fine
		O.T.B.			10/7	focus ok.

4 P.Hs LOADED

NEW BOX PLATES NEEDED

July 3 m.c. s.c. n.t.w. s.t.w.
 -01 11 +21 10.3 +29.2 +04

1947
Date *Thursday July 3rd 6~Th*

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
13551	170829	18 26.4	+20°46	I~25	E103a0	.008	22.9	20 ^h 54 ^m	21 34	2 26E
13552	158013	17 21.7	+57 05	1-25	E11	"	22.9	21 49	22 09	0 38E
13553	147665	16 18.1	+24 59	"	"	"	22.8	22 20	01 40	0 19W
13554	170829	18 26.4	+20 46	"	"	"	22.8	01 50	02 32	0 32W
13555	158013	17 21.7	+57 05	"	"	"	22.7	02 42	03 06	0 24W
13556	219418	25 10.5	25 05	"	"	"	22.8	03 19	03 55	0 59E
		Focus Test								

Date Friday July 4.5 1947 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
13557	HD 175578	18 50.9	29 54	I-25	E-103a-O	^{set} .008	26.8	00 20	01 50	3
13557F	" 201490	21 04.9	29 58	"	"	"	26.8	02 45		
	Focus Int				OTB					
				Saturday July 5-6/47		H-No				
				6 visitors		; sky cloudy				
				Sunday July 6/47		No				
				2 visitors		; sky overcast with scattered thunder showers.				
				Mach put on mirror at 19.30 E.S.T.						

Focus set Mic. 15.795

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
					Sky miserable in first half. brokenly cloudy with much haze.
1 30	29 58	1	8.35 G5	3-3-3	A.G. 25 ⁻ Haze, thickening
	30 09	1	8.05 G0	3	" " Clearing later, then more clouds and haze! phew! what a night!
				10/7	
					<p>m.c. s.e. n. T. s. 3</p> <p>July 1 -1 04.8 +1 41. +38.7 +06 +12</p>

Date Mon. July 7-9 1947 D-G 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
13558	HP 164898	17 58.3	+45 21	25"	E 103a0	.008	+22.5	20 56	22 30	
13559	158013	17 21.7	+57 05				+22.3	22 30	23 3	
	157992	17 03.9	+28 16							
Saturday, 1947 Jul. 12-13 N										
Cloudy with showers during day. Broken at sunset.										
Gave talk with slides; showed 4 with solar telescope.										
About 50 visitors.										
Broken clouds and haze all through the night. D										

Clouds, clearing before dark

18

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp.	REMARKS															
22.3	$C^h 46^m \frac{1}{2}$	+45° 20'	C	7.44 A ₀	3-3-3	Focused at 15730 Binary - few passing clouds at 21 30															
23	$C^h 4^m W$	+57° 02'	1.5	6.61 A ₀	3-3-3	clouds forming 22 55 + some 23 01, back 23 06															
				8.14 K ₀		Clouds - close up. 00 00 4114 plates in drawer															
						Focus changed from 15.730 to 15.674 ⊙															
						Opened but could not make any exposures, g.															
						<table style="margin-left: auto; margin-right: auto;"> <tr> <td></td> <td>m.c.</td> <td>s.c.</td> <td>m T.W.</td> <td>S T.W.</td> </tr> <tr> <td>July 11</td> <td>-1.062</td> <td>+1.507</td> <td>+44.6</td> <td>+0.7</td> </tr> <tr> <td>July 11</td> <td>-1.079</td> <td>+1.517</td> <td>+52.1</td> <td>+0.8</td> </tr> </table>		m.c.	s.c.	m T.W.	S T.W.	July 11	-1.062	+1.507	+44.6	+0.7	July 11	-1.079	+1.517	+52.1	+0.8
	m.c.	s.c.	m T.W.	S T.W.																	
July 11	-1.062	+1.507	+44.6	+0.7																	
July 11	-1.079	+1.517	+52.1	+0.8																	
						Thurs July 16 11 - cloudy, one of those nights! 3															

clearing about 2200 hours
workable at 2330

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp.	Focus at 15.782	REMARKS								
0010	2 ^h 33 ^m W	+57 04	0-1	6.61 A ₂	3-3-3		some haze around. <u>minty!</u>								
0152	2 ^h 31 ^m W	+29 30	1+	7.69 K ₀	3-3-3		being variable. " "								
0212	2 ^h 17 ^m W	+27 57	2	7.79 K ₂	3-3-3		May of this *? <u>minty</u> thinning g!!								
0237	1 ^h 57 ^m W	+20 09	2	6.05 G ₂	3-3-3		some aurora ting " "								
0311	00 ^h 57 ^m W	+31 09	2	6.78 B ₉	3-3-3		<u>very variable!</u>								
					10-7		M/Head ON.								
							2+10 plates in down								
							<table border="0"> <tr> <td>mc.</td> <td>sc.</td> <td>TW</td> <td>TTW</td> </tr> <tr> <td>July 18/47 -01 14.5</td> <td>+02 02.4</td> <td>+12.4</td> <td>12.4</td> </tr> </table>	mc.	sc.	TW	TTW	July 18/47 -01 14.5	+02 02.4	+12.4	12.4
mc.	sc.	TW	TTW												
July 18/47 -01 14.5	+02 02.4	+12.4	12.4												

00 J. L. ... M.F. 13 ...
 2 up ...
 4"

Temp 19.4
 Focus rate 15.680

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp	REMARKS
1:57	1 05 W	57 03	0-0	6.61	3~3~3	L STRONG
1:56	1 18 W	25 32	0-0	7.44 K ₀	3~3~3	WK
1:16	2 39 W	45 20	0	7.44 A ₀	3~3~3	L. WK
2:04	2 41 W	+25 21'	0-1	8.39 K ₀	3~3~3	WK
4:48	0 45 E	+31° 05'	0-1	6.78 P ₁	3~3~3	GOOD

Focus Good

Plate holders 1, 2 & 4 loaded in N pier
 " " 3 empty in spotting room.

	m.c.	s.c.	m.t.w.	s.w.
July 21	-01 17.3	+2 06.5	+20.9	+3 17.1
July 23	-01 20.4	+2 03.7	+21.8	+3 17.1

clouds, rain till midnight 26
N. west wind.

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp	Focusset 15642	REMARKS
01:45	3 ^h 49 ^m 11 ^s	+57 03	1-2	6.61 K ₀	3-3-3		* jumping in slit strong
01:55	1 ^h 55 ^m W	+26 45	2-	8.09 K ₀	3-3-3		good
02:11	0 ^h 57 ^m W	+30 06	2+	7.51 G ₀	3-3-3		cloud to the fine
02:10	0 ^h 57 ^m E	+31 00	2-1	6.78 B ₉	3-3-3	setting 2	strong
					10-7	7	focus ok
							3+12 plates in dome Mirror location

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Date *Thurs July 24 - 25, 1947, G.*

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
13575	164 898	17 58.3	+45 21	I ~ 25	E103 ₀₀	008	23.7	21 03	23 52	
13576	161 196	17 39.1	+29 42	"	"	"	23.7	22 13	0 12	
13577	189 534	19 57.2	+26° 64	"	"	"	23.4	0 24	1 34	
13578	164 898	17 58.3	+45° 21'	"	"	"	23.2	1 52	2 52	
13579	216 502	22 48.3	+26° 28'	"	"	"	23.3	3.06	2 ⁴ 12	
	Focus test									

TEMPERATURE 22.8 15.744 FOCUS SETTING

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Ending Time
E.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
0 04 E	+45° 21'	0-1	7.44 A ₀	3~3-3
2 23 W	+29° 39'	1-2	8.82 M ₂	3~3~3
1 00 W	-27 55	1-2	8.23 K ₂	3+3~2
4 04 W	+45° 20'	0-1	7.44 A ₀	2~3~3
1 13 W	+27° 40'	1-3	8.20 K ₀	3~3~3



fine
good
f. make
good
good
OK

LOADED PLATE HOLDERS

1 & 2 IN N. PIER

EMTIES IN SPOTTING ROOM.

J. 25 5. Mc. m Tw 107
+2 10.1 -1 20.0 +30.3 +07

11/17/49 HAZEL
 122

rest down 272

M - 15769

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
	57 2		⊖	11.61 A ₂	3 ~ 3 ~ 3
	47 25		0	11.61 A	3 ~ 3 ~ 3
	171 52		3	7.20 G ₅	3 ~ 3 ~ 5
	37 9			10.4	
					2 8m - 20? (0.7m - 1.0m)
					3.7m - 1.0m (0.7m - 1.0m)
					July 28 ^{MC} -1.24 ^{SC} -2.12 ^{MC} +77.2 ^{MC} +0.2
					4.5 ~ 5.0

guiding!

good

fine

curved

from 0.8

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp	Focus Set 15.749	REMARKS
2144	03 ^h 11 ^m W	+24 45	1	7.80 G _s	3-3-3		break
2200	0 ^h 53 ^m W	+57 03	1-2	6.61 A ₀	3-3-3		fine
2300	2 ^h 4 ^m W	+28 09	2	8.14 K ₀	3-3-3		Trouble identifying * Telescope vibrating at 2300 Light clouds 2350 good
0100	1 ^h 3 ^m W	+26 13	2	8.00 K ₀	3-3-3		Clouds 0350 good
0200	2 ^h 16 ^m W	+25 40	1-2	79.6 A ₀	3-3-3		scattered clouds 0120 * gone 0200-0210 fine
0300	1 ^h 27 ^m E	+31 06	1-2	2.78 B ₉	3-3-3	Set by	clouds fine
				2.8 A			Lightning, thunder fine
					10-7	9	
							4x20 plates in dome Heaton survey

CLEARING
2300

Temp 27.6

Air Satting 15.806

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Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp	REMARKS
0041 1/3	3 34W	+57 02	1	6.61 Az	3~3~3	THIN CLOUDS WINDY; IMAGE NOT STEADY
0271	4 38W	+20 46	1~0	7.59 G8	3~3~3	HEAVY CLOUDS 01 05 CLOUDS THIN OUT 01 40
0359	1 10W	+59 45	0	6.8 Az	3~3~3	* GONE 03 20 - 03 35 * MORE CLOUDS
					10/7	
					4 P.H. LDD	
					16 PLATFS	N GETTING DARK

Focus Set 15.700

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp.	REMARKS
	0 44W	+18 03	0	6.90 B ₉	3-3-3	Haze!
	1 26W	+57 04	0	6.61 A ₂	3-3-3	"
	3 12W	+26 08	0	8.72 G ₅	3-3-3	star seems too faint but field seems
	4 57W	+20 46	0-1	7.54 G ₁	3-3-3	to chicks O.K.
	1 32W	+48 53	1-2	6.8 Ave	3-3-3	
						FOCUS TEST. ALL 4 PLATEHOLDERS LOADED IN N. PIER.

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Date Fri. Aug 1/2, 1917 Wn - 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
13597	HD 158013	17 ^h 21. ^m	+57 ^m 25	I-25	1V310	ST 008	21.4	20 45	21 21	
13598	155344	17 ^m 05. ^m 9	+26 ^m 34'	"	"	"	21.4	01 28	03 20	
13599	153071	19 ^m 36. ^m 1	+22 ^m 55'	"	"	"	21.3	03 34	05 16	41 W
13600	204642	21 ^m 24.9	+28 ^m 09'	"	"	"	21.3	01 21	03 45	42 W
13601	^{MWC 397} 215393	22 ^m 02.6	+4 ^m 40'	"	"	"	21.2	02 31	03 37	51 W
13602	2019	00 ^m 19.4	+30 ^m 49'	"	"	"	21.2	03 43	04 21	61 W
<i>Found list</i>										
Sat. Aug 2-3. Hd. Tls. about 20 winters. Cloudy showed transparencies and telescope										

SPT 15 705

Some clouds at sunset

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
02:27		+57°03'		7.51 K2	3-3-3	ELVAY 1170, clouds at 7:22 strong
02:43		28 20	0-1	7.59 K0	3-3-3	AG25 fine
1 41 W		26 00	0-1	7.44 K0	3-3-3	AG25 strong
1 42 W		28 20	0-1	7.54 K2	3-3-3	AG. 25. SAME * FIELD AS 13550 fine
05:56 W		49 53	0	6.8 Ave	3-3-3	Be Proc. guiding! good
06:33 W		31 03	0-	6.78 B9	3-3-3	BINARY fine
		O. T. B.			10/7	from O.K.

Cloudy

2 P.Hs. LOADED

WATCH "CRANKED"

I DON'T WE HAVE A TON OF THINGS TO DO?

Temp. read 27.8 before spectrograph door open
 Focus set 15.8-10

42

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
2100	247W	+28°54'	0-1	8.42 G ₅	3-3~3 At sunset, haze around horizon. None visible overhead. Cloud bank low in W & S W. 15.7735. <i>good</i>
2100	247W	+28°54'	0-1	6.61 A ₂	3-3-3 <i>thin haze</i>
2100	237E	+44°52'		C.8 Ave	3-3~3 Under the end of this exposure the object suddenly obscured with Ci-St. cloud. <i>22.0</i> M.W.C. #397 <i>good</i>
					10~7 Two focus tests settings 9 and 1. 10~7
					4 LOADED PLATE HOLDERS IN N. PIER.

Any 5 (to use 1000)

	MC	SC	MTW	STW	STW
—	-1.31	+0.02	+0.8	+0.1	+0.15

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Pump	REMARKS
						15.825
21	0° 17' W	+57° 03'	0-1	6.61 A ₂	3-3-3	looks bad fuzz around. Probably with fine flypaper.
22	2° 16' W	+25° 02'	1±	8.19 K ₅	3-3-3	better sky now
23	2° 43' W	+26° 03'	1±	8.28 K ₆	3-3-3	
1	1° 54' W	+25° 23'	2-	8.23 K ₅	3-3-3	
2	1° 25' W	+22° 13'	1-2	7.86 K ₆	3-3-3	Some flypaper 3 in. ^{good}
4	1° 37' W	+49° 53'	1-2	1.8 A ₂	3-3-3	Forgot to pull slide to 15 min.
					10-7	<u>Flipper in camera</u> seems to be loose
						found that end of plate was unsecured
						4th plate in dome
						Angle 6 -01 333 +02 227 +59.7 +01.1

H5

Date Wed Aug 6-7, 1949 Hd / W. Julian Day 2404

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.
13614	HD 158013 Focus test	17 21.7	57 05	I-25	E103a0	008	28.1	21 50	22 36 2
13615	HD 158013	17 21.7	57 05	"	"	"	27.7	00 46	01 43 4
-13616	M.W.C. 397 218393	23 02.6	49 40	"	"	"	27.7	01 52	03 10 1
13617	2019 Focus Test	00 19.1	30 49	"	"	"	27.7	03 16	04 20 2

Murky at sunset. clearing (?)
later.

Found focus at 15.928!

46

Set it to 15.814

Vernier reads 23.23

= tab. - 0.15

checked plunger + flipper.

Ending Time EST.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
22:36	W 1 56	57 03	0	6.61 A2	3,3,3. Sky much worse toward end. <i>flipper on!</i> weak
		O.T.B.		7/5	
01:43	5.00 W.	57 03	0 0 0	6.61 A2	3-3-3 seeing <i>beating</i> . BINARY <i>flipper</i>
03:10	0 49 W	49 53	0	6.8 AVE	3-3-3 HAZE <i>Be PROGRAM!</i>
04:22	0 41 W	31 04	0-1	6.78 B9	3-3-3 HAZE <i>smiling</i> BINARY, U.F.H. <i>POSITION OF FLIPPER IN THESE 2 EXP. CORRECT.</i>
		O.T.B.		10/7	<i>focus 0.5</i>

3 PHS. LOADED

Box PLATE S NEEDED.

	m.c.	S.E.	mTW	STW
Aug 8	-01 350	+02 262	+03.2	+0.2

47

Date

Saturday Aug 9-10 Win-D/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.
13618	HD 158013	17 21.7	57 05	1-25"	E10%20	Set 002	25.6	22 16	22 22
	158013						25.6	22 42	23 00
	158013						25.6	23 16	23 23
13619	189317	19 54.3	+28 20	"	"	"	25.6	00 05	02 06
13620	218660	23 04.7	29 08	"	"	"	25.3	02 11	03 39
13621	2019	00 17.4	30 49	"	"	"		03 48	04 25
	<i>Focus Test</i>								

Date Sunday Aug 10th 11/47 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
13622	HD 158013	17 28.7	57 05	1-25"	F10320	Set 008	+27.6	20 28	21 06	30.4
13623	163203	17 49.9	56 08	"	"	"	+27.4	21 09	22 05	19.7
13624	158013	17 21.7	+57 05	"	"	"	+27.3	22 07	22 53	28.1
13625	162898	17 48.3	+62 48	"	"	"	+27.1	22 56	23 24	1.1
13626	158013	17 21.7	+57 05	"	"	"	+27.0	00 00	00 50	51.8
13627	218393	23 02.6	+49 40	"	"	"	+27.0	01 06	01 56	6.10
13628	218193	23 00.4	+45 27	"	"	"	+27.0	02 00	03 21	1.1
	Focus test			outside	thru	base		1/7"		

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp	REMARKS
21:00	0° 40' W	+57 03	0-1	6.61 A ₀	3-3-3	70m set 15-9-10 Haze fogged fine
21:30	1° 09' W	+56 07	1-2	7.14 A ₃	3-3-3	Sup List. " fine
22:00	2 28 W	+ 70 3	1-2	6.61 A ₀	3-3-3	" fine
22:30	3 05 W	+ 62 47	1-2	7.03 F ₂	3-3-3	Sup. List. fine
23:00	3 31 W	+57 03	1-2	6.61 A ₀	3-3-3	setting 3 seeing variable fine
23:30	0 10 E	+47 52	2	6.8 A ₀	3-3-3	Haze good
00:00	1 1 V	+25 13	2	9.18 K ₀	3-3-3	Haze very thick end of computer graph mark pit graph, - 100, 1000 fine OK.
						<p>Aug 11</p> <p>M.T.W. S.T.W. +142 +0.4</p>

Date Monday Aug 11-12 Y/W Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
13629	^{Y O/n} HD 16274	17 ^h 47.3	-6° 7'	I-25"	E103.0	008	+27.8	21 ^h 12 ^m	21 ^h 12 ^m	2
13630	^{FF Agl} HD 176755	18 53.8	+17 18	"	"	"	+28.0	21 ^h 24 ^m	22 00	3
13631	^{T. Agl.} HD 178359	19 3.2	+1 9	"	"	"	"	22 ^h 41 ^m	22 45	4
13632	^{SU Cyn} HD 186688	19 40.8	+29 1	"	"	"	"	22 ^h 55 ^m	23 00	1
13633	^{X Cyn} HD 197572	20 39.5	+35 14	"	"	"	"	23 ^h 25 ^m	23 00	2
13634	HD 203171	21 15.5	27 04	"	"	"	27.9	00 14	02 18	3 W
13635	^{MNC 397} HD 218393	23 08.6	+9 40	"	"	"	28.0	02 23	03 12	10 W
	^{Z AND} HD 221650	23 28.8	+48 16	"	"	"	"			
13636	HD 2019	00 19.4	30 49	"	"	"	28.0	03 35	04 25	06 W
	<u>Focus Test</u>									

Focus set 15.610

52

Ver. read. 23.25-

Ending Time
EST.

Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
21 ^h 23 ^m W	-6° 10'	1	Var. Gop	Slight Haze 3-3-3 fogged weak
22 ^h 05 ^m W	+17° 17'	1	" F ₁	3-3-3 " fine
22 ^h 45 ^m W	+1° 11'	2	" G ₁	3-3-3 " weak
23 ^h 45 ^m W	+29° 07'	2	" F _{2p}	3-3-3 good
23 ^h 12 ^m W	+25° 26'	2	" Gop	3-3-3 good
				THIS * HAS A VERY FAINT COMPONENT.
02 18 03 W	+27 15	2	8.43 G5	3-3-3 A.G. 25 good
03 12 10 W	49 53	2	6.8 Ave	3-3-3 Be PROG. (Hd.) fine
			EST 8.3-11.4 Oct	COULD NOT DETERMINE FROM FIELD WHICH WAS RIGHT *
04 16 10 W	31 04		6.78 B9	3-3-3 BINARY fine
	O.T.B.			10/7 foreground

1 P.H. LOADED - IN FRIG

BOX PLATES " "

Plates 13-629, 630, 631 fogged in plateholders, probably
in refrigerator or transit.
Box for carrying holders provided Aug 13.

Focus set 15868

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp.	REMARKS
	0 23W	+57 00	2-3	6.61 A ₂	3-3-3	seeing variable
	1 27W	+75 18	2-3	7.24 F ₂	3-3-3	Sup. list.
	1 31W	+57 02	2-3	6.61 A ₂	3-3-3	
	2 50W	+58 34	2-3	7.55 F ₅	3-3-3	Sup. list.
	3 03W	+57 01	2-3	6.61 A ₂	3-3-3	
	3 03W	+25 24	2-3	7.87 G ₅	3-3-3	seeing variable
	4 07W	+57 02	2 [±]	6.61 A ₂	3-3-3	
	4 17W	+37 07	2	6.51 F ₁	3-3-3	Binary
	4 20W	+18 44	2	8.28 K ₀	3-3-3	
	4 30W	+49 54	2	6.8 A ₂	3-3-3	
	4 30W	+31 01	2	6.12 B ₉	3-3-3	
					10-7	cloud 03-05
						focus 0.2
						m.c. s.c.
						Aug 13 -1 39.0 +2 32.2 +20.8 +2.2

SPECT 7000 30.8
MIR 56TT 15.865

56

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
	2 44 W	25 35	1-0	8.65 K ₀	3~3~3 A.G. 25 aged
	3 10 W	26 14	0-1	7.93 K ₀	3~3~3 " clean
	1 33 W	30 33	1-2	8.33 K ₀	3-3-3 " good
	1 01 W	49 53	1-2	6.8 Ave	3-3-3 Beehive Head fine
	1 29 W	30 39	1-2	8.05 G ₅	3-3-3 A.G. 25 spherically disturbing good
				10/7	features
					^{s.c.} Aug. 14 +02 33 6
					^{MTW} ₈ +23.9 ^{STW} _m +0.5

210000
 210000
 210000

Spect. Type 25.6
 Milky Shell 15.774

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comps	REMARKS
	10 W	+57 02	0	6.61 A ₂	30303 R ₂₀₀	57 42 VHS 5
	12 W	+59 42	0	8.40 K ₂	30303 Ag 25	SPR 20 N 10.0 T weak
					37	A 10.0 N 10.0 T CL 10.0 N 10.0 T 11:30 FEN 10.0 N 10.0 T
					3	focus 0.4

TEMP 25.3
FOCUS 15.769

60

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
23	5 50 ^m W	57 03'		6.61	3-3-3 THIS PLATE ABOUT 1/4" SHORT, HENCE DOES NOT FIT PROPERLY IN PLATE BOX.
0116	3 03 E	31 54	0	7.20 G5	3-3-3 SAME FOR THIS PLATE. FROM THE SMELL OF THE PAINT AND THE FEEL OF THE SIZE, IT IS NOT THE GR. GUIDING. BINARY [BRIGHT BOX!!!]
0231	0 48 W.	49 53	0	6.8 Ave.	3-3-3 Be PROGRAM (HEARD). Est.? 8-3-11 + 0cp
0345	1 04 W.	28 14	0-1	7.62 Ko	3-3-3 AG 25
0433	0 45 W.	29 25 O. T. B.	1	7.44 Ko	3-3-3 AG 25 10/7
1 P. H. LOADED - IN FRIG.					
BOX PLATES " "					
EXPOSED PLATES WRAPPED + PUT IN SMALL CARDBOARD BOX					

strong
strong

fine

fine
fine

four o.k.

Focus act 15.766
Ver. read. 23.30

Cloudy until 20h 15^m

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
21 ^h 14 ^m 3	0 ^h 15 ^m E	+17° 15'	1	var. F ₅	3-3-3 Slight haze fine
22 ^h 53 ^m	1 ^h 12 ^m W	+1° 13'	1-2	" G ₅	3-3-3 " " weak
23 ^h 38 ^m	1 ^h 15 ^m W	+29° 6'	2	" F _{2p}	3-3-3 " " fine
0 ^h 15 ^m 3	0 ^h 59 ^m W	+85° 23'	2	" G _{0p}	3-3-3 Passing cloud good
0 ^h 5 ^m	5 ^h 00 ^m W	+57° 04'	1	6.61 A ₂	3v 3v3 weak
					FOCUS TEST. focus o.k.
					3 PLATEHOLDERS LOADED (#4 EMPTY IN SPOTTING ROOM.)

26.4 15.790
28.8 15.775

Set focus 15.790

66

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp.	REMARKS	Flashlight Report.
2:20	1 06 W	+58° 32'	0-1	6.80 A ₃	3-3-3	Supp. list	fine
2:30	1 02 W	+62 48	1-2	7.03 F ₂	3-3-3	"	fine
2:40	1 43 W	+56 06	1-2+	7.14 A ₃	3-3-3	" <u>Reset focus</u> to 15.775	fine
2:40	1 00 W	+18 10	2+	6.9 B _{max}	3-3-3	Be-prog. MWC 317 Seeing 3 at fine	fine
3:00	1 24 W	+36 48	1-2	7.7 B _{3e}	3-3~3	MWC 346 ^{670 in w/p} 15.765 ← Focus reset	fine
3:09	3 49 W	+28 41	1-2	8.43 G ₁	3-3~	FIELD Hazy at end of exposure	weak
4:52	0 57 W	+31 55'	2	7.20 G ₁	3-3~3	"	weak

C.T.B. 7/7

SETTING FOR 18613 3

" 1 Focus Test 9.

4 RILDERS ARE DOWNED

2 PLATE NOT SM. TESTED RETURNED

7. ORIGINAL PACKAGE.

* manual observation

focus set 15.8K6

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Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp.	REMARKS
00:26	2 04 W	+27 23	3-3	8.45 G ₀	3-3-3	A.G. 25 much haze good
01:30	1 05 W	26 40	3	7.95 K ₀ EST. 9.9 M. 8-3-11.4 Sep.	3-3-3	A.G. 25 l weak LOCATED STAR, BELIEVE THAT IT IS TOO FAINT TO PHOTOGRAPH WITH THIS CAMERA, ALTHOUGH PRESENT SEEING VERY GOOD (3). SOME HAZE.
02:24	2 02 W	31 03	2-3	6.78 B ₉	3-3-3	BINARY (HEARD) fine
03:44	1 18 W	26 08	2-3	8.07 G ₀	3-3-3	AG 25 l weak
04:38	1 05 W	26 57	3	7.65 K ₀	3-3-3 10 7	A.G. 25 fine focus OK
		O.T.B.				
						4 P.H.s. LOADED & IN REFER.
						4 Ps. " "
						1 NEW-BOX Ps. NEEDED.
						Probably about 90+ (?) visitors
						M13 with 74-wid; 2 @ with 5" good.

Date Sun Aug 24-25/47 Ta 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
13679	HD 157297	1717.3	+11 47	9.25	K10390	.008	28.0	19 51	20 25	059V
13680	MWC 320	1941.3	+08 44	"	"	"	28.0	20 36	22 36	045
13681	HD 193009	2012.9	+32 04	"	"	"	27.9	22 40	23 00	039W
13682	195407	2026.0	+36 39	"	"	"	27.9	23 03	23 43	109W
13683	218393	2302.6	+49 40	"	"	"	27.9	23 53	00 11	00P
13684	217050	2252.7	+48 09	"	"	"	27.9	{ 00 16 00 20	{ 00 20 00 25	31E
13685	211555	2212.8	+25 53	"	"	"	27.9	00 31	01 11	050W
13686	218170	2300.7	+28 29	"	"	"	27.8	01 14	02 14	05W
13687	225292	2359.9	+27 07	"	"	"	27.8	02 17	02 47	08W
13688	10588	0138.2	+31 43	"	"	"	27.8	02 52	03 16	031E
13689	7299	0108.1	+29 12	"	"	"	27.8	03 20	03 50	033W
13690	(9224	0125.7	+28 54	"	"	"	27.8	03 53	04 33	059W
	Diacus Test									

Focus set 813

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp.	REMARKS
2025	0 59 W	+11 41	2	7.08 A ₀	3-3-3	Supp List. <i>Wazi?</i>
22 36	0 45 W	+05 51	2-3	8.5 B _{5ne}	3-3-3	Some difficulty finding. Settings checked. See <i>which field dia.</i>
23 01	0 39 W	+32 12	3	7.0 B _{0ne}	3-3-3	MWC 336
23 43	1 09 W	+36 49	3	7.7 B _{3c}	3-3-3	346 2nd plate made
00 11	1 00 E	+49 55	3	6.8 A _{ve}	3-3-3	397 A full 6.8'
00 21	0 35 E	+48 23	3	5.2 B _{3xc}	4-4 } 4-4 } 3	394
01 11	0 50 W	+26 07	3	7.74 K ₀	3-3-3	AG 13340
02 14	1 05 W	+28 42	3	8.16 K ₅	3-3-3	AG 13817
02 27	0 38 W	+27 22	3	7.35 G ₅	3-3-3	AG 14436
03 10	0 31 E	+31 55	3	7.20 G ₅	3-3-3	Bin.
03 30	0 33 W	+29 25	3	7.44 K ₀	3-3-3	AG 702
04 33	0 59 W	+29 09	3	7.74 G ₀	3-3-3	AG 849
					10-7 } 7	
						4 plates loaded, open box with 4 plates in refrig.
						<i>M.C. M</i>

*weak**l. weak**See which field dia.**good**weak**good**fine**strong**weak**weak**good**good**fine**good**weak**weak**focus OK*

Focus set 15.815
Ver. Read. 23.25

72

Ending Time
E.S.T.

Hour Angle
End

Declination

Seeing

Ptg. Mag.

REMARKS

+2° 56'

3.80 Bsp = Clouded up

Tues. Aug. 26-27.

Th. here on my arrival.

Cloudy - clearing, 0100. Cloudy 0200

Clear 0300 - 0330. Overcast 0400, looks like
rain. W.

(Faint red markings and numbers)

Focus set 15.762

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp.	REMARKS
01:05	05 W	+27 51	0-1	6.51 B ₅	3-3-3	AG 25 good
01:07	02 W	+28 24	1	8.82 G ₀	3-3-3	AG 25 weak
01:09	04 W	+27 00	0	8.82 K ₀	3-3-3	" " weak
01:11	06 W	+30 04	1	6.78 B ₁	3-3-3	Binary good
01:13	08 W	+28 03	1	7.27 H ₀	3-3-3	AG 25 good
					197	focus ok.

3 PH, LDD.

about 20" diameter thermal
 Congress. M13 = β Cyg. " 74" (dust)
 2 + C " 5" M₀
 C " 4" G + T₂
 (Paps. Ponder + Robinson)

Date Sunday Aug 28-29/47 No-G 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
13696	H.D. 156377	17 12.1	+18 08	1.25"	E 103-0	.008	+25.7°C	19 46	2:06	01
13697	A.G. 9675	19 07.3	+26 14	"	"	"	+25.8	21 03	23 51	01
13698	H.I. 209457	21 ^h 58.4	+29 12	"	"	"	+25.4	0 06	1 12	22
13699	H.D. 218393 M.W.C. 397	23 ^h 02.6	+49° 40'	"	"	"	+25.1	4 20	5 02	07
	Focus Test						+25.2			

Focus set 1.775

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp.	REMARKS
	02 01W	+18 05	0-1	6.90 B ₇	3-3-3	Sup list good
	02 51W	+26 19	0-1	8.42 G	3-3-3	0. number
	04 22W	+29 25	0-2	8.99 G ₅	3-3-3	☹ A little haze and cloud uneb
	04 07W	+47 54'	0-1	8 Ave	3-3-3	M.W. 397 Focus Test good
						3 PLATE HOLDERS LOADED focus O.K.
						PLATE HOLDER #1 EMPTY
						IN SPOTTING ROOM.

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Date Sat. Aug 30-31/47 Ta-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
13700	HD 2019	00 19.4	+30 49	I-2X	F10390	.008	24.2	23:02	23:42	233E
13701	218393	23 02.6	+49 40	"	"	"	24.2	23 50	23 53	
13702	214337	22 33.0	+25 55	"	"	"	+24.1	00 12	00 40	
13703	36584	05 26.7	+32 44	"	"	"	+23.9	04 01	04 37	
13704	39053	02 07.5	+22 10	"	"	"	+24.0	04 44	05 00	
	Focus test - out side through lens							7/7 ⁵		

Clearing from 22.10 after showers
6 visits!

Set focus 0.751

242.78
751

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp	REMARKS
2342	2 23E	+31 04	0+-1	6.78 B ₉	3-3-3	Bin.
	0 09E	+49 54	1-27	6.8 Ave	3-3-3	MWC 397
	3 36W	+26 08	0	8.76 K ₀	3-3-3	A.G. p ₁₀₃
	0 30E	+32 47	0	6.56 A ₂	3-3-3	Binary image very unstable
	1 48E	+22 13	0-1	6.22 A ₂	3-3-3	

fine
fine
weak
fine

fine
focus ok.

Sunday afternoon about 20 visitors
incl. L party

80

Focus set 15.730

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	comp.	REMARKS
00:00	2 13 W	+25 57	0	7.04 B ₉	3-3-3	Sup. list scattered Sc and Ci clouds <i>fine</i>
00:00	2 26 W	+30 15	1	8.43 G ₅	3-3-3	A.G. prog. <i>weak</i>
01:01	1 43 W	+29 35	1+2	8.42 G ₂	3-3-3	" <i>good</i>
01:44	0 52 W	+25 22	2+	7.04 K ₀	3-3-3	" <i>good</i>
02:15	0 14 E	+29 10	2-3	7.23 G ₅	3-3-3	" <i>good</i>
02:49	0 49 E	+28 07	2-3	7.29 K ₀	3-3-3	" <i>fine</i>
03:16	0 34 E	+28 26	2-3	7.07 G ₅	3-3-3	" <i>fine</i>
04:17	1 14 E	+44 47	2-3	7.8 B _{3 ne}	3-3-3	MWC 79 <i>good</i>
04:41	2 27 E	+32 45	2-3	6.56 A ₂	3-3-3	Bin <i>fine</i>
04:52	1 12 E	-13 10	?	5.5 B _{3 ne}	5-5 ₃	MWC 86 <i>good</i>
				Focus Test 10.77		<i>getting</i>
						<i>focus O.K.</i>
						<i>m.c. s.c. m/100 s/100</i>
						<i>2 p. 2 -02 03.0 +03 077 +59.0 +0.9</i>

Date Tuesday Sep 2-3/47 No. G 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
13715	H.D. 168498	18 14.9	+11 50	1-25"	F-103 ₂ -0	^{sl} .008	+22.9°C	17 30	20 30	
13716	A.G. 10315	19 38.8	+27 51	"	"	"	+22.9	20 34	23 24	
13717	H.D. 214887	21 40.0	+28 48	"	"	"	+22.8	23 27	0 45	
13718	H.D. 218177	23 01.0	+30 11	"	"	"	+22.7	0 57	3 19	
	FOCUS TEST						+22.5			
13719	340184	16 21.7	+32 44	"	"	"	+22.7	4 28	7 18	

Focus 15.730

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp.	REMARKS
20:55	0 42 W	+11 50	1-2	7.34 A ₀	3-3-3	Sup. list good
21:00	2 50 W	+27 54	2	8.40 A ₀ 2.40 G₀	3-3-3	A.G. prog. wrong star! l weak
21:05	1 32 W	+29 00	2	7.72 K ₀	3-3-3	" " good
21:10	3 26 W	+30 25	0-2	8.27 K	3-3-3	No CLOUDS VISIBLE AT START. FIN N A-EU. PAIRED A 242 AT 3:45M FIRST CLOUDS (7 SITS) ENDED TO SLOWLY SET ON. SETTING 4. weak
					10-7.	FOCUS TEST SETTING 9. focus O.K.
21:15	2 10 E	+32 40	2-2		3-3-3	fine
						PLATE HOLDER #1 EMPTY IN SPOTTING ROOM. OTHERS LOADED

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Date Wed Sep. 3-4, 1947 Ad-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
13720	MWC 278 HD 164284	17 55.3	+4 22	I-25	E10340	008	-	19 31	19 37	2
							+25.0	19 38	19 40	
13721	MWC 307 HD 174886	18 47.7	-10 21	"	"	"	25.1	19 55	21 09	3
13722	MWC 317 HD 183143	19 23.0	+18 05	"	"	"	25.0	21 13	22 23	4
13723	HD 201032	21 02.0	62 59	"	"	"	25.0	22 29	23 19	4
13724	MWC 397 HD 218393	23 02.6	49 40	"	"	"	25.0	23 25	23 55	2
13725	MWC 376 HD 206773	21 39.3	57 17	"	"	"	25.1	23 59	00 41	3
13726	Z 019	00 19.4	30 49	"	"	"	25.0	00 48	01 40	
	IMPRACTICAL TO GO AFTER Z AND A3 CLOUD FORMATION DRIFTING IN FROM WEST.									
13727	167	00 01.4	28 00	"	"	"	25.0	01 43	02 09	
	<i>Focus Test</i>									

Checked plunger.

Focus set 15.766

Vernier reads 23.29 = (tab. - 1.3)

84

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
19:37			2	4.8 B5ne	5.5 ex 1 Be prog.
19:00	W 0 15	+ 4 20	2		5.5 " 5.5
21:19	N 0 52	- 10 18	2 → 0	8.1 B3e	3,3,3 ☺ Be Prog. limiting to L
22:21	N 1 31	18 10	0 → 2	6.9 B9sex	3,3,3 Be prog. Some clouds + haze
23:19	W 0 49	63 08	2	7.40 A5	3,3,3 Binary
23:55	E 0 37	49 52	2-3	6.8 AVE	3,3,3 Be prog.
00:00	01 34 W.	52 28	2	7.0 B02e	3,3,3 Be Prog.
01:40	00 08 E	31 04	2	8.78 B9	5-4 BINARY HAZY CLOUDS IN NW
STAR Co CR 29	00 39 W	28 14	2	7.62 K0	3-6 AG. 25 CLOUDS
	O. T. B.			10/7	
					3 PHS. LOADED IN FRIG.
					4 IN Box
					Rebet
					Sp + +02.556 +3.10.1 +03.2 +0.00

Date February 27, 1957 G. 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 Angl End
13728	ND 161 519	18 ^h 21 ^m	+20 34	Evans	L 103a0	003	23.0	19 55	22 20	2
13729	ND 201 057	21 ^h 02 ^m	+62 59	"	"	"	22.9	22 48	23 38	3
13130	218022	22 25.1	+30 17	"	"	"	22.9	00 05	01 21	17
13131	218253	22 32.6	+49 50	"	"	"	22.8	01 32	02 01	18
13732	224882	23 54.4	+30 11	"	"	"	22.8	02 07	03 01	19
13733	35484	05 26.9	+32 44	"	"	"	22.8	04 09	04 53	20
13734	14250	06 13.9	+35 51	"	"	"	22.8	04 35	05 12	21
	Focus test - outside			through	lens			5/9		

23.5 = 15.734, Vernier read 23.3

86

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp.	REMARKS
2:00	187°W	-25°58'	1-2	8.72 K ₀	3-3-3	A.G. prog. <i>weak</i>
2:05	183°W	-43°19'	1-2	7.40 A ₁	3-3-3	Binary <i>fine</i>
2:10	187°W	+33°30'	2-3	8.50 K ₂	3-3-3	H.G. prog. <i>good</i>
2:15	187°N	+49°54'	2-3	6.8 Ave	3-3-3	Be prog. <i>fine</i>
2:20	185°W	+30°28'	2-3	8.40 G ₀	3-3-3	A.G. prog. <i>fine</i>
2:25	180°E	+32°46'	3	6.56 A ₂	3-3-3	Binary <i>too strong!</i>
2:30	181°E	+27°22'	3	7.06 A ₀	3-3-3	" <i>fine</i> <i>focus OK</i>

87

Date *HD ~ G.W. Sept 6-7/47 Sat.* 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
13735	<i>HD 17276</i>	<i>18 57.1</i>	<i>09 31'</i>	<i>I...</i>	<i>E 10, 20</i>	<i>728</i>	<i>26.7</i>	<i>21 22</i>	<i>22 39</i>	
13736	<i>HD 201072</i>	<i>21 02.0</i>	<i>02 34</i>	<i>"</i>	<i>"</i>	<i>"</i>	<i>25.9</i>	<i>22 57</i>	<i>00 25</i>	<i>206</i>
13737	<i>MWC 897</i> <i>HD 218393</i>	<i>23 08.6</i>	<i>49 40</i>	<i>"</i>	<i>"</i>	<i>"</i>	<i>25.2</i>	<i>00 30</i>	<i>00 36</i>	<i>186</i>
13738	<i>HD 201900</i>	<i>19.4</i>	<i>30 49</i>	<i>"</i>	<i>"</i>	<i>"</i>	<i>25.3</i>	<i>01 02</i>	<i>01 28</i>	<i>195</i>
13739	<i>Z AND.</i> <i>21650</i>	<i>24 28.5</i>	<i>45 16</i>	<i>"</i>	<i>"</i>	<i>.016</i>	<i>25.2</i>	<i>01 50</i>	<i>03 58</i>	<i>211 W</i>
13740	<i>17674</i>	<i>02 48.1</i>	<i>29 52</i>	<i>"</i>	<i>"</i>	<i>.008</i>	<i>25.1</i>	<i>04 04</i>	<i>05 06</i>	<i>183 W</i>
	<i>Focus Test</i>									

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
	2 30 W	57 54	2-2	6.7 94	3-3-3 M.W.C. 30" OF 20° FOCUS TEST. center to right fine
00 15	2 06 W	48 46	2	7.4	3-3-3 FOCUS RESET TO 15.780. too strong
00 28	0 36 W	49 52	3	6.8 AVE	3-3-3 Be Prdg fine
01 44	0 09 E	31 03	3	6.78 B9	3-3-3 BINARY fine
03 50	3 11 W	48 20	3	EST. 9.4 3-3-11/4 Dec	3-3-3 BRASS EYEPiece Wrong Star fine
05 26	1 03 W	30 02	3	7.64 G5	3-3-3 10/7 There is no focus test on plate 12740 fine
		O.T.B.			

I P H LERDED

Date Sunday, Sept 8/47 No. Ta Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Ang End
13741	H.D. 201032	21 02.0	+62 59	1.25"	F 10 ³ -0	^{set} .002	+28.7°C	21 04	22 19	
13742	195401	20 26.0	+36 39	"	"	"	+27.8	22 32	00 00	
13743	195413	21 27.3	+51 17	"	"	"	+27.6	00 06	01 06	
	201032	21 02.0	+62 59	"	"	"	+27.4	01 19	02 21	
13745	201032	21 02.0	+62 59	"	"	"	+27.6	02 53	03 48	
13746	201032	21 02.0	+62 59	"	"	"	+27.5	03 58	04 29	
	201032	21 02.0	+62 59	"	"	"				

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Date Monday, April 8, 1954 Julian Day 1954.108

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Ang End
13747	HD 16215	17 31.0	+25 00	...	...	...	+24.9	21 04	21 14	
13748	184538	19 29.7	+25 30	...	...	...	+25.0	21 06	22 46	
13749	208657	21 57.7	+25 21	...	...	...	+24.9	22 50	1 00	
13750	201032	21 01.0	+62 59	...	...	...	+24.9	3 14	2 18	
13751	218393	23 06.6	+49 50	...	...	...	+24.9	2 27	3 01	
13752	HD 12502	1 55.6	+39 12	...	...	...	+24.9	3 18	3 10	
Focus Test							+24.6			

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS		
	2 14 W	+27 37	3-2	8.2 B e	3-3-3	AG 2- <i>See my notes</i>	<i>weak</i>
	2 33 W	+25 40	1-2	9.57 A 0	3-3-3	AG 25	<i>weak</i>
	2 57 W	+40 53	1-2	5.17 A 1	3-3-3	AG	<i>weak</i>
	4 06 W	+63 08	1-2	7.40 A 5	3-3-3	Pinning	<i>good</i>
	2 41 W	+49 57	0-2	6.9 A 2	3-3-3	M.W.C. 397	<i>weak</i>
	2 04 W	+50 23	0-2	8.2 B e	3-3-3	M.W.C. 28 SETTING 4	<i>weak</i>
					10-7	FOCUS TEST. SETTING 9.	<i>focus O.K.</i>
						PLATE HOLDER #2 EMPTY	
						SPOTTING ROOM OTHER SPOTS	
						IN 'BRIDGE'	

93

Date Tuesday Sept 9-10, 1947 H-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
13753	MWC 307 #D 174886	18.47.7	-10 21	I-25	E10320	008	26.2	19 29	20 47	30 52
13754	MWC 310 #D 177648	19.00.5	23 11	.	..	..	26.1	20 52	22 18	4 21
13755	HD 201032	21 02.0	62 59	..	..	..	26.1	22 24	23 30	1 12
13756	MWC 381 HD 208682	21 52.9	64 52	..	..	..	26.1	23 24	23 58	2 05
13756F	<i>Focus Test</i>									
Wed Sept 10-11 Light clouds and haze at sun set, sky remaining poor, completely clouded at times L										

Set focus 15.78

94

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
22 47	<u>Commit</u> W 0 52	-10 19	1	8.1 Bse	3,3,3	Be Prog. Pretty hazy. very weak
22 18	W 2 11	23 14	1	6.9 Bse	3,3,3	" " Worse. L. weak
23 30	W 1 22	63 09	2	7.40 A5	3,3,3	Binary better? good
23 35	W 0 59	65 02	2	5.8 B3ne	3,3,3	Thin clouds 2340. Thick at 2358. L. weak
	O. T. B.				10/7	focus O.K.

Have very thick fog remainder of night.
Brighter stars visible.

3 P.H.s. LOADED

2 NEW BOX PLATES NEEDED

		m.c.	S.C.	m T W	S I W
Apr. 10	-2	129	+3	207	+212
					+0.3

Focus set: 15.763

96

Ending Time
E.S.T.

Angle End	Declination	Seeing	Ptg. Mag.	Comp	REMARKS										
59 W	+46 07	2-3	6.5 B3He	3-3-3	15.11.9. +07 image very ^{fine} jittered										
59 W	+47 53	2	6.8 A.Ve	3-3-3	" 397 thick haze from N.W. ^{fine} later gone 03.18 ^{fine} focus ok										
					<table border="0"> <tr> <td></td> <td>mc.</td> <td>s.c.</td> <td>mtw.</td> <td>stw.</td> </tr> <tr> <td>Sep. 12</td> <td>-02 14.2</td> <td>+03 26.1</td> <td>+25.9</td> <td>+0.3</td> </tr> </table>		mc.	s.c.	mtw.	stw.	Sep. 12	-02 14.2	+03 26.1	+25.9	+0.3
	mc.	s.c.	mtw.	stw.											
Sep. 12	-02 14.2	+03 26.1	+25.9	+0.3											
					Thurs, Sept 11-12/47 Thin overcast, with occasional breaks, W/m										

97

Date Friday Sept 12-13/47 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
13759	H.D. 206332	21 55	28 18	T-25	F-103-0	Set 008	25.0	23 00	00 43	120
13760	H.D. 206332	21 55	28 18	T-25	F-103-0		25.1	00 54	01 32	
13761	H.D. 206332	21 55	28 18	T-25	F-103-0		25.4	02 11	02 48	
Secure Test										
Saturday 1947 Sep. 13-14 N No										
Mostly cloudy with showers; showed slides and demonstrated telescope.										

Focus Am. set 15.765

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp.	REMARKS
						Plots at sunset and early morning, showing partial of much larger later at dusk
7 12 W	28 50		1	7.54 G 5	3-3-3	AG. 25. good
	33 10		1	7.40 A 5	3-3-3	Very faint weak
	31 01		0.1	6.78 B 5	3-3-3	weak
	25 8					faint o. r.

Clearing 0030; built tanks

Effus .736

100

Ending Time
E.S.T.

Hour Angle
End

Declination

Seeing

Ptg. Mag.

Comp

REMARKS

004E	+31 55	1-2-3	7.20 Gs	3-3-3	Bin	True circle, 6.5h
002W	+26 10	2-1	8.56 K ₀	3-3-3	Bin	stop for 10 minutes
013W	+48 58	1-2	6.8 Ave	3-3-3	NWC 277	l. weak
1138W	+32 10	1-2-3	6.5 B ₂ e	3-3-	3 NWC 61 38	very heavy good focus O.K.
					2 Pth handled	

Date Sunday Sept. 14-15 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
13766	^{670ph.} HD. 164353	17 ^h 55 ^m .6	+2° 56'	I-25"	EK03a-d	.008	24.0	19 ^h 20 ^m	19 ^h 21 ^m .2	
"	"	"	"	"	"	"	"	19 ^h 24 ^m	19 ^h 26 ^m	
"	"	"	"	"	"	"	"	19 ^h 30 ^m	19 ^h 36 ^m	53"
13767	^{FRAG.} HD. 176155	18 ^h 53 ^m .8	+17° 14'	"	"	"	24.1	19 ^h 45 ^m	20 ^h 15 ^m .3	38"
13768	^{SUCY.} HD. 186688	19 ^h 40 ^m .8	+29° 1'	"	"	"	"	20 ^h 40 ^m	21 ^h 40 ^m .4	12 W
13769	^{XCY.} HD. 197572	20 ^h 39 ^m .5	+35° 14'	"	"	"	"	21 ^h 46 ^m	22 ^h 26 ^m .1	00 W
13770	HD. 207379	21 ^h 43 ^m .4	+29° 16'	"	"	"	"	22 ^h 50 ^m	0 ^h 00 ^m .2	30 W
13771	^{Z AND.} HD. 232248	23 28.9	48 16	"	"	.016	24.2	00 20	03 18	54 W
13772	HD. 18202	02 50.3	25 45	"	"	.008	24.2	03 27	04 21	01 W
13773	HD. 23257	03 28.6	27 37	"	"	"	24.2	04 29	05 17	01 W
<i>Focus Test</i>										

Focus Sch 15.749
 Var. Read. 23.30

102

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
19 ^h 21 ^m		+2° 55'	1	3.80 Bep	10
19 ^h 26 ^m		" "	"	"	5-5- } 3 exp. on one plate
19 ^h 36 ^m	0 ^h 53 ^m W	" "	"	"	5-5- } fine
20 ^h 15 ^m	0 ^h 35 ^m W	+17° 17'	1-2	Var. F5	3-3-3 } nothing on these plates; PLATES DESTROYED
21 ^h 45 ^m	1 ^h 12 ^m W	+29° 6'	"	" Fep	3-3-3
22 ^h 26 ^m	1 ^h 00 ^m W	+35° 24'	2	" Gop	3-3-3
0 ^h 01 ^m	1 ^h 30 ^m W	+29° 27'	"	8.51 K ₀	3-3-3 AG 25
0 ^h 04 ^m	3 04 W	+48 31	2	EST. 9.5 8.3 - 11.0 dep	3-3-3 <i>Prising plates</i> good
0 42	0 45 W	28 55	2-3	7.12 K ₀	3-3-3 good
0 57	0 54 W	27 45	2	7.44 G ₀	3-3-3 <i>(circle)</i> fine
	O. T. B.				10/7 focus O.K.

1 P.H. Load

Δp_{15} m.c. s.c. m.T.W. P.T.W.
 -2 18.9 +3 34.8 +34.3 +0.5

Set Focus .665

104

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
01:00	333W	+63 08	0-1.0	7.40 Ar	3-3-3 * Exposure off .00 10.-0016 while checking setting for watch, in case? ^{good}
01:10	058W	+31 02	1 (var)	6.78 Bg	3-3-3
02:54	309W	+49 53	1	6.8 Ave	3-3-3 MNC 397. Telescope in critical balance; 20 min. dec. mag. on Sp. ^{fine good}
04:14	154W	+31 58	1-0	7.20 Gs	3-3-3 } Cloud from N.W. down about 1 mag by 310, clear 330, cloud at ^{focus} ^{weak} ^{ok.}
				10-7 } 39 Star zone 0414, western sky, good closed up	
					4 phts loaded; 1 plate rejected unspotted, emulsion down

105

Date Sunday Sep 16-17/47 No. 6 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
13778	H.D. 218353	23 02.6	+47 40	12.5	E-100-20	1.00	+17.0°C	0 ^h 24 ^m	1 24 ^m	1 24 ^m
13779	H.D. 217,00	22 57.7	+47 09				+17.12	19 48 ^m	17 07 ^m	
13780	H.D. 10689	1 58.2	+31 40				+17.6	27 09 ^m	3 2 ^m	
	FRANKS TEST						+17.60			

Focus set 15646

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp.	REMARKS
	47 ^m	+49 56	0 ^m	3.8 Ave	3 ^m 3 ^m 3	MWC 397 <i>fine</i>
	27 ^m	+48 23	"	5.1 base	3 ^m 3 ^m 3	thin cloud in N. Thick clouds in S. None in field <i>strong</i>
	15 ^m	+31° 54	"	4.20 Gr	3 ^m 3 ^m 3	MWC 394 <i>sky very hazy during second part of the exposure can be considered to be good</i>
					10 ^m 7.	FOCUS TEST <i>focus O.K. SETTING</i>
						3 PLATEHOLDERS LOADED, 7 ^m EMPTY
						IN SPOTTING ROOM.
						m.c. s.e. m.T.W. s.T.W.
						Sep. 17 -2 21.4 +3 30.7 +39.2 +0.7

Focus set 15.704

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp.	REMARKS
20:30	1 57W	+45 20	0	7.44 A ₀	3-3-3	Binary R.A. clamp returned to work on occasion
20:35	1 44 N	+27 50	1	6.51 B ₅	3-3-3	" * Trouble with dome telescope
20:40	1 37E	+65 03	1	5.8 B ₂₀	3-3-3	m.w.c. 381
20:45	1 30N	+63 08	1	7.40 A ₅	3-3-3	Binary
20:50	1 38N	+45 20	2-1	7.44 A ₀	3-3-3	" Curtain limits in 2. [Could only fit 1" from 1/10000 scale]
20:55	1 25W	+48 23	1-2	5.2 Ave	3-3-3	MWC 394
21:00	3 45W	+63 10	2±	7.40 A ₅	3-3-3	Bin
21:05	1 33W	+25 59	2-3	8.49 K ₂	3-3-3	N.P. Lyll, seeing 3 for 2:10
21:10	3 40W	+49 55	3-2	6.8 Ave	3-3-3	MWC 397
21:15	2 15W	+54 15	2-3	8.6 B ₃₁₁₂	3-3-3	MWC 29 Tulache ket.
21:20	0 55E	+32 48	2-21	6.56 A ₂	3-3-3	Bi. Low, very variable. Clusters, in rapid. cloud contacts with fine many stars - some hot.
					15.7	N.P. Study
						Marsella to G. S. [unclear]
						m.e. s.e. M.T.W. S.T.W.
						Aug. 19 -02 23.6 +3 26.5 +43.8 +0.7

Sun Spot 21/22, 1947 FAIN w.m.

Sep. 22 12^h

MO SC
 -02 27.4 +28.4
 (Rem. wt. 0.5) (Adv. 3 min)

MTW STW
 -11.2 -0.1
 (adv. 1 min)

110

Focus Set 10.566; Ver. read. 23.50

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
	1 ^h 23 ^m W	+17° 17'	0	Var. F ₈	3-3-3
	1 ^h 45 ^m W	+22° 7'	"	" F _{2p}	3-3-3
			"	Ext. Obj	2- 22 ^h 30 ^m Clouded over + close up
					Focus Test 1 Plate loaded

111.

Date Thursday Sept 23-24, 1947 Julian Day 141

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
13794	HD 18031	19 10	+27 46	T-25	E103.0	008	210.5	18 41	19 15	
13795	NGC 6722			2000 slit	E113.0	—		19 35	19 55	
								19 35	19 55	
								19 35	19 55	
13796	NGC 6722			"	"			19 35	19 55	
13977	HD 130316	19 11 5	+27 46	T-25	E103.0	008	210.5	23 16	23 46	
13783	219731	23 13 1	+27 54			"	210.8	22 15	01 20	

Trans at 15.560 lens 23.50

Ending Time
E.S.T.

Hour Angle
End

Declination

Seeing

Ptg. Mag.

REMARKS

050

+27 52

2

651 37 3-3-3

Binary

3/4 steady trans; sort on double orb.

Clouds over most of night

Pic

Heads gone about 1/2 of time as indicated in picture.

The date, good about half of time

some showing, result by hypothesis, to slit at close

Several (?) of faint lines with appearance, then some double and
with out for several adjacent exposures in same date.

Check marks in very hard to judge! with the 100 mag
of the being, several of exposure.

Check, about up 20⁹⁵

20 W

+29 52

1

651 37 3-3-3

20 N

+30 01

2

675 30 3-3-3

15 25

Date Tuesday Sept 23-24/47 H L Gnd. 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
13799	H.D. 10866	01.41.5	25 40	T-25	F-10380	^{Set} .008	+10.8	01 25	03 33	
13800	' 25296	03 56.1	27 52	"	"	"	+10.8	03 37	04 53	
13801	} Focus lost	05 26.9	32 44	"	"	"	+10.8	04 57	05 18	
13801										
					07.8					

Ending Time E.S.T.	Hour Angle: End	Declination	Seeing'	Ptg. Mag.	REMARKS												
05:27	140 W	25 55	2	8.51/160	3-3-3 A.G. 25												
06:30	045 W	27 59	2	8.01 65	3-3-3 "												
08:20	020 E	32 47	2	6.56 A2	3-3-3 Binary 10/7												
					<table border="0"> <tr> <td></td> <td>EST</td> <td>MC</td> <td>SC</td> <td>MTW</td> <td>STW</td> </tr> <tr> <td>Sep. 24</td> <td>12</td> <td>-2.289</td> <td>+29.3</td> <td>-06.5</td> <td>-0.1</td> </tr> </table>		EST	MC	SC	MTW	STW	Sep. 24	12	-2.289	+29.3	-06.5	-0.1
	EST	MC	SC	MTW	STW												
Sep. 24	12	-2.289	+29.3	-06.5	-0.1												

Date Wed Sept 24-25, 1947 Hd - 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 Angl End
802 13782	MWC 397 HD 218393	23 02.6	49 40	I-25	E103a0	008	+13.2	22 36	23 36	1
803 13783	MWC 395 HD 217543	22 56.3	38 10	"	"	"	13.1	23 39	00 25	2
	<i>Z. AND. Seeing not good enough to get this star</i>									
804 13784	HD 201032	21 02.0	62 59	I-25	E103a0	008	13.2	00 35	01 21	
805 13785	HD. 8747	01 21.2	26 43	"	"	"	13.2	01 30	03 44	
806 13786	HD 22403	03 31.2	25 40	"	"	"	13.1	03 27	05 19	
	<i>Focus Test</i>									

Clouds earlier. Clearing from 2130
with very bright aurora.

..b..r

Focus at 15.595 Vern. 23.49
(=Tab - .11)

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Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
23 35 1	W0 26	49 55	0	6.8 Ave	3, 3, 5 Be prog.
00 22 2	1 22 W	38 24	0	6.4 Bsue	3, 3, 3 " "
01 21	LIMIT 4 13 W	69 10	0	7.40 AS	3:3-3 ^{T:} BINARY (THROUGH AURORA B) DIFFICULT TO GUIDE
03 24	1 56 W	26 56	0	7.65 Ko	3-3-3 " "
05 17	1 41 W	25 47	0	7.92 Co	3-3-3 " " "
	O. T. B.				¹⁰ / ₇
					3 PH ₂ LOADED - IN DOME
					4 P. IN BOX " " "

117

Date Thurs. Sep 21 1904 110 - 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 Angl End
13 807	110 185 117	10 11 0	27° 11'	T-25	113 M2	808	10.8	19 30	10 10	
13 808	110 185 117	10 11 0	27° 11'	"	"	"	10.8	19 30	20 50	
13 809	110 185 117	10 11 0	27° 11'	"	"	"	10.8	21 00	21 30	
13 810	HD 206713	61 30 3	457 17'	"	"	"	10.8	21 57	22 47	
13 811	HD 180318	10 11 0	427 46'	"	"	"	10.8	25 53	26 15	
13 812	HD 211800	23 13 6	-77 01'	"	"	"	10.8	02 15	02 00	44 W
13 813	HD 15256	02 22 3	29 26	"	"	"	10.7	02 04	02 10	45 W
13 814	HD 32956	05 37 1	21 10	"	"	"	10.7	04 15	05 35	2 5 E
	<i>Stars Test</i>									

Found set of 15.2002
 ... (7.0-7.5)
 ...

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
				7.37 B5	3-3-3	Binary NB: THIS ... ALMOST THROUGH ...
				7.3 B3 sed	3-3-3	Binary weak
				7.40 A5	3-3-3	Binary fine
				7.0	3-3-3	Binary very strong
				7.01 B5	3-3-3	Binary fine
	2 44 W	29 17	0	7.01 110	3-3-3	AG 25 listing
	1 45 W	29 38	0	7.55 G0	3-3-3	AG 25 fine
	0 05 E	29 09	0	7.56 K0	3-3-3	AG 25 SEEING SA FOR HARD TO REACH listing
		O.T.B.			10/7	EAST FOR THIS BRIGHT STAR fine

3 P.M. LEAVE - IN COPE
 8 P.M. ... - " "

MC	SC	MTW	STW
2 30.0	+29.6	-23.0	-0.4

Plate Serial No. off Sept. 23-24 (13799 onward) ? $\frac{1}{2}$ in.

119

Date Friday, Sept. 26-27 $\frac{Y/L}{L}$

Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.
13815 13795	^{50 Cyg} H.D. 186688	19 ^h 40 ^m	+29° 1'	I-25"	103 _a -0	.008	+10.2	19 ^h 10 ^m	20 ^h 10 ^m , 2
13816 +3796	H.D. 17382	02 42.2	26 40	I-25	103 _a -0	^{Set.} .008	+8.3	02 48	04 50
13817	" 36484 Focus Lost	05 26.9	32 44	"	"	"	+8.3	04 57	05 21
						O. T. 13			

Focus set 15.555

ver. read 23.50

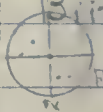
Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
20 ^h 10 ^m	0 ^h 30 ^m W.	+29° 8'	0	Var. Pup.	3-3-3 Clouds came over 20 ^h 10 ^m Focus test Close up 22 ^h 15 ^m 2 P.H. Loaded - in dome 8 P in Box - " " Sky doubtful at midnight, better later. Focus reset 15.533
04 51	2 08 W	26 52	0	8.33 K ₀	3-3-3 AG 25
05 21	5 06 E	32 46	0-1	6.56 A ₂	3-3-3 Binary 10/7

Approx. 150 new stars;
Examined M13, B Cyg. & G.

122

Focus set 15.565

Vernier 23.52

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp.	REMARKS
21 45	1 04W	+45 56	0-1	B ₂ 4.9	3-3-3	m.w.c. 353 0.5/1
23 20	2 03W	+63 11	0-1	7.40 A ₅	3-3-3	Binary 0.5/1
23 0	2 50 W MIT	+47 53	0-1	6.8 A ₅	3-3-3	m.w.c. 397 star seemed quite a bit off our A? fine
01 1	4 14W	63 10	0-1	7.40 A ₅	3-3-3	Binary VERY DIFFICULT TO GUIDE good finding
03 00	3 29W	26 09	0-1	8.00 K ₀	3-3-3	 B. A.G. 25 fine
05 00	1 43 W	28 00	0-1	8.01 G ₅	3-3-3	A.G. 25 THIS STAR HAS A FAINTER COMPONENT. good
		O.T.B.				focus OK

2 P.H. LOADED

BOX PLATES NEEDED IN DEPT.

	MC	SC	MTW	STW
Sep. 29	-2 30.8	+29.8	-16.0	-0.3

Set Focus 15.573

124

Vernier 23.52 (Tab - .10)

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
2 13	W 3 27	25 00	0	6.9 B5e 3,3,3	B ₂ prog. good
23 07	W 2 52	44 06	0	7.2 Bise 3,3,3	" " star seems yellow, clouds for 1/2 hr. good
01 0	2 21 W	49 54	0	6.8 AVE 3,3,3	" " clouds for last hour. ^{poor guiding} good
		O.T.B.		10/7	overcast till 0300 focus OK
05 1	2 16 W	27 25	0	8.19 Ko 3-3-3	1 st numbered 13287 good

B. P. H. LOADED

BOX P. NEEDED

Focus set at 15.575 mic.

126

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp	REMARKS
	151W	28 27	0	8.26 G5	3-3-3	AG. 25 fine
23:75	219W	29 18	0	8.21 G0	3-3-3	" " fine
15	251W	30 08	0-1	8.33 G5	3-3-3	" " fine
				8.49 K0		clumped over at start of exp. continuous clouds
	O.T.B.				11	shut at 4:45

~~PH~~ PH LOADED

1 P. 'SPOTTED' IN 1ST BOX

	MC	SC	MTW	STW
Oct. 1	-2.325	+30.4	-11.3	+0.7

Set loc. 5.00

Late starting because of 128

- a) Dr. near 0 rim down difficult
- b) Finding STC area & setting
- c) Dr. near 2 Map (N 35°)

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
	0 ^E 25	+38° 25'	3	6.4 33ne	3-3-3 Be prog
	3 ^W 22	+49° 41'	3	6.8 Ave	3-3-3 "
	12 46 W	+29° 37'	3	8.26 K0	3-3-3 AG 25
	12 23 W	26 51	3	8.99 G5	3-3-3 AG 25 (A GOOD OPPORTUNITY FOR FAINT STARS)
	0 34 W	25 52	3	8.02 G5	3-3-3 AG 25
	4 15 E	23 05	3	7.22 K0	3-3-3 AG 25
	A.T.B.			10/7	

5 PH. LOADED

BOX PLATES NEEDED

	MC _m	SC _s	SW _s	MTW _s	STW _m
Oct. 3	-2 32.2	+31.1	+12.9	-27.2	-0.1

Focus set 15.626

130

Vernier read 23.43 (Tab-0.13)

Clouds around horizon of - starting

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
	33	+18°10'	0	6.9 B9sec	3-3-3 Be Prog
					<p>Heavy haze, 2000 ft</p> <p>- 1215 DT Relays stuck;</p> <p>jiggled & sanded, then ok</p> <p>DT Relo. stuck again.</p> <p>Dark clouds ~ 2000 ft</p> <p>*Ending time is</p> <p>merely when dark side was close; star had been dimmed</p> <p>phys 1" for about an hour</p>
					<p>Clear around 2300-45 becoming cloudy.</p> <p>Cloudy remainder of night. W.</p>

Forecast - clear today, cloudy with showers tonight, clearing Sunday.

21.10.1954
(1/10/54 23.00)

132

Ending Time
E.S.T.

Hour Angle
End

Declination

Seeing

Ptg. Mag.

REMARKS

515 +63 10 0-1 7.40 A5 3-3- Ta Binary Light haze on limb. of star near limb

Clearing after sunset.
Forecast 4 to 8 tenths ci.

Focus 15.679
vern 23.38 (= Tab - .13)

134

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS										
20-1	W 1 31	18 12	2	6.9 B9 sed 3, 3, 3	Bo prog. found no plate in no. 1! Then checked & found none in no. 2										
22-2	W 2 02	30 00	2	8.12 G5 3, 3, 3	Vel prog.										
22-2	W 1 5	49 54	2	6.8 AVE 3, 3, 3	Bo prog.										
6-1	3 30 W	27 48	2	8.49 G5 3, 3, 3	Vel prog. <small>VERY SLOW FOR</small> some turning failed once. <small>TRANSPARENCY FOUR.</small>										
				App. +5 Sp. Md.	10 Set 5										
					10 Set 5										
	2 3 W				5-5 Oct 7										
	2 3 W	20 26	3	8.33 Ko 3-3-3	LIGHT CLOUDS - AG. 25 MORE HAZE AG. 25										
	4 6.1	29 18	2.1	7.77 G0 3-3-3	THESE ARE FAINT COULDS.										
		A.T.B.			10/7										
					5 P.M. L.M.S.D.										
					<table border="0"> <tr> <td></td> <td>MC</td> <td>SC</td> <td>HTW</td> <td>STW</td> </tr> <tr> <td>Oct. 6</td> <td>-2^m 34.0</td> <td>+31.3</td> <td>-17.3</td> <td>+0.2</td> </tr> </table>		MC	SC	HTW	STW	Oct. 6	-2 ^m 34.0	+31.3	-17.3	+0.2
	MC	SC	HTW	STW											
Oct. 6	-2 ^m 34.0	+31.3	-17.3	+0.2											

135

Date Ans Oct 5-7/47 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 Angl End
13845	H.D. 166517	19 39.8	27 12	I-25	E-103 ₂₀	set 008	21.1	18 46	20 00	1
13846	" 200101	20 59.7	28 35	"	"	"	21.0	20 05	21 00	1
13847	" 211884	20 15.2	25 13	"	"	"	21.0	21 39	22 30	1
13848	" 2839	00 26.7	27 58	"	"	"	21.0	23 30	01 02	4
13849	" 17119	02 39.4	29 50	"	"	"	21.1	01 56	04 46	1
13850	" 3102	15 41.4	25 51	"	"	"	21.1	04 50	05 50	1
	Ans Oct									

Focus set Nov 15. 703

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp.	REMARKS
2:20	1 00W	27 18	1-2	8.37 K ₀	3-3-3	A.G. 25
2:30	1 11W	23 46	1-2	8.37 K ₀	3-3-3	" "
2:40	1 23W	25 27	1-2	8.33 K ₂	3-3-3	" "
2:50	1 35W	23 12	2	8.23 G	3-3-3	" " PASSENGER CLOUDS LAST 30 MINS.
3:00	1 47W	20 06	2	8.51 G ₅	3-3-3	" " LARGE CLOUD STORM IN THIS REGION.
3:10	1 50W	25 33	3	7.85 K ₀	3-3-3	" " PASSING CLOUDS.
		O.T.B.			$\frac{10}{7}$	
						A.P.H. LIFTED
						1.2 EMULSION DOWN IN WRAP

137

Date Tuesday, Oct. 7-8, Y/L

Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
13851	HA 190073	19 ^h 58 ^m .1	+5° 28'	I-25	E103a-d	1008	+23.0	18 ^h 40 ^m	19 ^h 40 ^m	1
13852	CG CV8	20 ^h 54 ^m .2	+34° 47'	"	"	016	"	19 ^h 45 ^m	21 ^h 05 ^m	2
13853	Z And. HD 221650	23 ^h 28 ^m .9	+48° 16'	"	"	"	"	22 ^h 22 ^m		3
	2-F									
13854/3	H.D. 29246	04 31.3	25 32	"	"	"	+21.0	03 19	04 23	

Focus set 15.733

Ver. read 23.30

138

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
19 ^h 40 ^m	2 ^h 25 ^m W	+5° 34'	1-2	7.9 Acp	3-3-3 Slight clouds for 15 min.
22 ^h 15 ^m	2 ^h 5 ^m W	+34° 56'	2	(10.2)	2-2-2 then clear
		+48° 32'		(9.5) Ocp	2-2-2 22 ^h 35 ^m intermittent clouds
					Clouds up. Focus Test
					Sky breaking at 1.30, remaining hazy
					then fairly clear at 2.45.
					Focus set. Mic. 15.703
23 ^h 15 ^m	23 W	25 37	2	8.48 K ₂	3-3-3 A.G. 25 Clouding re sudden
					at 07.29
					MC SC
					MTW STW
					Oct. 8 -2.346 +32.1 -14.0 +0.2

139

Date Wed Oct 8-9, 1917 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.
13854	HD 160781 MWC 351	16 ^h 07 ^m .1	+25°38'	I-25	L1037-0	55" 005	+17.8	1 ^h 40 ^m	20 ^h 50 ^m
13855	HL 20868	21 ^h 32 ^m 9	+65°05'	"	"	"	+17.8	20 ^h 02 ^m	20 ^h 50 ^m
13856	HD 202573 MWC 397	21 ^h 11 ^m 6	+25°31'	"	"	"	+17.8	21 ^h 50 ^m	22 ^h 50 ^m
13857	HD 202560	23 ^h 02 ^m 5	+45°40'	"	"	"	+17.8	23 ^h 57 ^m	23 ^h 49 ^m
13858	HD 2019	00 ^h 19 ^m .4	+30°40'	"	"	"	17.9	23 ^h 55 ^m	00 ^h 55 ^m
13859	1240Z	01 ^h 56 ^m .5	27°56'	"	"	"	17.8	00 ^h 59 ^m	02 ^h 29 ^m
13860	2240B	03 ^h 31 ^m .2	25°40'	"	"	"	17.8	02 ^h 33 ^m	04 ^h 39 ^m
13861	36484	05 ^h 26 ^m .9	32°44'	"	"	"	17.7	04 ^h 43 ^m	05 ^h 39 ^m
	<i>Transit Test</i>								

Focus set 15.05

Verner read 23.40 (23-0.13)

Thin clouds @ dusk

General
 100%
 SWITCH PULL ID TNA
 EXP 2000
 140

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
3:00	105°29'		0	7.49 G5 3-3-3	AG 25 48. 7.6 quoted as 7.6. I weak
3:15	105°25'		0-1	5.8 B3 3-2-3	Be Prog fine
3:25	+25°11'		0	7.54 G5 3-2-3	AG 25 good
3:34	+25°54'		0	6.8 Ave 3-3 3	Be Prog good
3:44	31 03		0	6.78 B9 3-3-3	Birdy prog fine
3:54	28 08		0-1	7.29 K0 3-3-3	A.G. 25 Sing impressive fine
4:04	25 49		0-1	7.92 G0 3-3-3	fine
4:14	32 46		0	6.58 A2 3-3-3	fine
	O.T.B.			¹⁰ / ₇ Set 9	focus ok

1 P.H. LOADED

1 Box P. NEEDED IN DOME

141

Date Thurs., Oct 9-10, 1947 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
13862	HD 133399	19 ^h 24 ^m 3	+29°11'	I-25	F1030-D	SLT CC 2	+14.0	18 28	19 59	20
13863	HD 126866	20 ^h 05 ^m 0	+25°43'	"	"	"	+14.5	20 09	21 51	21
13864	MRC 397 HD 218353	23 ^h 02 ^m 6	+41°50'	"	"	"	+11.5	22 03	22 29	22
13865	MRC 402 HD 223531	23 ^h 15 ^m 0	+61°30'	"	"	"	+14.6	22 33	00 29	23
13866	HD. 7352	01 08.6	25 17	"	"	"	+14.7	00 34	02 54	24
13867	" 29246	04 31.3	25 32	"	"	"	+14.4	02 59	04 53	25
13868	" 36484	05 20.5	32 44	"	"	"	+14.4	05 03	05 27	26
	From East				O.T.B.					

Focus set @ 15.614

Vern read 23.44 (Tab - .14)

142

Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
1° 20'	+29° 20'	1.0	7.49 K0	3-3-3 AG 25 fine
1° 11'	+25° 52'	0.1	7.65 K5	3-3-3 AG 25 good
0° 18'	+10° 53'	3	6.8 Ave	3-3-3 Be Prog strong
1 35 W	+61 51'	2	8.2 B3e	3-3-3 Be Prog very strong
2 37 W	25 32	2.1	8.51 G5	3-3-3 AG 25 fine
1 0 W	25 37	1	8.98 K2	3-3-3 " " good
0 52 W	32 44	1	6.56 A2	3-3-3 Pinney very strong
			10/7	J focus ok

143

Date Fri Oct 10-11, 1947 Hd-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 Ang End
13869	MWC 317 HD 183143	19 23.0	18 05	25	E103aD	008	+15.5	19 34	20 54	3
13870	→ HD 2019	00 19.4	30 49	"	"	"	15.6	21 00	21 40	4
13871	MWC 397 HD 218393	23 02.6	49 40	"	"	"	15.6	21 46	22 26	1
13872	HD 218153	23 00.6	25 29	"	"	"	15.6	22 30	00 17	2
13873	HD 211700	00 19.4	30 49	"	"	"	15.6	00 16	00 46	
13874	HD 211700	01 22.3	43 32	"	"	"	15.7	00 49	01 13	
13875	MIRN CETA HD 14376	02 14.3	-02 26	"	"	"	15.6	01 25	01 35	
								01 34	01 33	
								01 32	01 40	
13876	HD 17250	02 11.2	+26 19	"	"	"	15.7	01 50	02 14	
13877	HD 36184	05 20.9	32 44	"	"	"	15.7	05 18	05 46	
	<i>Focus Test</i>									

waited for big bank of ci to clear out of zenith
 further delayed by starting watch at
 misund. standing rate chidnt. corrected
 watch by B egg.

Four out 15.623
 Vern. 23.43 (= Tab - .14)

now Corr. to Sid. Watch = - 3^m. 3

144

ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
2054 3	W 2 26	18 10	0	6.9 B7scd	3 3 3 Be prog. good
21 00	W 2 16	31 03	1	6.78 B9	3,3,3 Bin. strong
22 20	W 20	49 53	1	6.8 AVE	3,3,3 Be prog. fine
1 07 W	25 42	1-2	8.18 K0	3,3,3	Vel. prog. opposite
1 30 W	31 06	1-2	6.78 B9	3-3-3	Binary
C 4 4 W	43 46	2	6.54 B9	3-3-3	Binary
	-03 13	2	4.5 Sp Ma	10	Sat. 3 + exposure
				10	Sat 5
				5 5	Sat 7 Dec 1394%
2 55 W	42 31	1-2	8.24 K.	3-3-3	AG 25
1 55 W	32 45		6.56 A2	3-3-3	Binary
	OTB			10/7	

P. 2 1/2" path very thin
 poor quality
 comparison overlapp
 from v to slightly to red
 1 P.H. LORDED
 1 BOX PLATES RETURNED
 Oct 11 15 +207 -1327
 M.T.W. 17 W
 -227 -071

145

Date Sat. Oct. 11-12/47 H-Ne - 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 Angl End
13878	H.D. 183143 183849	19 23.0 19 26.4	+18 05 +18 02	1-25"	E-103a0	⁵⁴ .008	+16.7°C	18 25	19 34	22V
13879	H.D. 218393	23 02.6	+49 40	1-25"	E-103a0	.008	+16.7	22 11	23 51	25xV
13880	15138	02 21.2	+50 07	"	"	"	+16.7	23 10	23 50	2 36E
13881	4006	00 37.5	+29 34	"	"	"	+16.7	23 56	01 50	2 28W
13882	19536	03 01.5	60 15	"	"	"	16.7	01 58	02 50	2 10W
13883	2019	00 19.4	30 49	"	"	"	16.8	02 55	03 31	2 11W
13884	27483	04 15.2	13 38	"	"	"	16.8	03 36	04 00	2 10W
13885	29104	04 29.8	19 41	"	"	"	16.7	04 09	04 39	2 10W
13886	15138	02 21.2	50 07	"	"	"	16.8	04 44	05 12	2 10W
13887	36484	05 26.9	32 44	"	"	"	16.8	05 16	05 41	2 10W
	<i>Focus Short</i>									

NO. 1. 620
M 15

Focus Set: 15.641

146

1949. 10/11/49
61 Cys. + Y.R. phs.

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp.	REMARKS
1 22 W	+18 08	0-1	8.4 K ₀ 6.9 B ₉ S ₂	3-3-3	← m.w.c. 317	Wrong Star Seeing variable
2 1 0 5-9 W	+29 55	0-1	6.8 Ave	3-3-3	m.w.c. 397	Wrong star? - used wrong watch cor
1 36 E	+20 20	1-2-3	6.61 F ₂	3-3-3	Double line Binary	u strong
2 12 W	+29 47	1-2-3	8.09 G ₅	3-3-3	A.G. 412	u
0 15 W	60 25	2	7.26 A ₁₈	3-3-3	BINARY	Scary, I could not squeeze in Mira
4 11 W	31 04	2	6.78 B ₉	3-3-3	BINARY	HEARD
2 50 W	13 44	2-3	6.56 F ₄	3-3-3	BINARY	DOUBLE LINE u strong
1 09 W	19 46	3	7.06 F ₈	3-3-3	BINARY	DOUBLE LINE u strong
3 50 W	50 21	3	6.21 F ₂	3-3-3	BINARY	DOUBLE LINE u strong
1 14 W	33 42	3	6.86 A ₂	3-3-3	BINARY	NORRIS u strong
	D.T.B.			¹⁰ / ₇	SET. 9	
						3 P.H. LOADED
						1 Pox PLATES NEEDED IN DOME
						WATCH WOUND 6500

Focus Set 15.660

V.R. 23.40

148

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
22 ^h 0 ^m	2 ^h 20 ^m W	+34° 57'	1-2	(10.2)	2-2-2. very weak
	02 W	+48° 30'	2-3	(9.5) <i>Obj</i>	2-2-2
	03 W	50 20	2-3	6.61 <i>F₂</i>	3-3-3 <i>Double emission lines, pr grid, huge clouds.</i>
	03 W	13 44	2	6.86 <i>F₁</i>	3-3-3 " " " clearing again <i>fine</i>
	02 W	13 45	2	7.05 <i>F₂</i>	3-3-3 " " " huge <i>stump</i>
				10.7	<i>OK</i>

149

Date Monday, October 13, 1947 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
13893	H.D. 209745	22 00.6	29 24	T-25	E-10360	508 008	17.7	20 46	23 36	1
13894	" 2010	00 19.8	30 05	"	"	"	17.6	21 00	23 50	7W
13895	" 6745	00 51.2	28 15	"	"	"	17.6	21 32	03 01	7W
13896	" 2019	00 19.4	30 49	"	"	"	17.6	03 04	04 15	7W
13897	" 2910	04 29.8	19 41	"	"	"	17.6	04 28	05 34	7W
13898	" 3648	05 26.9	22 44	"	"	"	17.6	05 28	05 55	7W
	<i>End of List</i>									

Four Set. Mic. 15.658

150

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS	
					Start delayed because cass. focus motor control out. Replaced same.	
13:00	32 W	29 36	0-1	8.33 G5	3-3-3	A.G. 25 2 min
13:05	31 W	31 04	1	6.78 B9	3-3-3	Binary very strong
13:10	31 W	29 30	1	8.41 G5	3-3-3	A.G. 25 fine
13:15	31 W	31 06	1-0	6.78 B9	3-3-3	BINARY J.E.H. poor guiding good
13:20	20 W	19 46	1-0	7.06 F8	3-3-3	BINARY DOUBLE LINE strong
13:25	32 W	32 44	0-1	6.56 A2	3-3-3	poor guiding (fine)
	CTB				10/7	

3 PH LOADED

1 BOX PLATES NEEDED

WATCH WOUND 0300

Date Tuesday, Oct 14-15, 1947 ^{W.} ~~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.	Error Angle End
13899	MWC 312 HD 180398	19 11.3	12 56	I-25	E103aD	008	+18.0	18 26	20 06 3	1) 20
13900	HD 196866	20 35.0	25 43	"	"	"	+18.1	20 10	21 40 4	2) 16
13901	MWC 376 HD 206773	21 39.3	57 17	"	"	"	18.0	21 44	22 34 1	2) 07
13902	MWC 397 HD 218393	23 02.6	49 40	"	"	"	18.0	22 38	23 14 2	2) 23
13903	HD 1605	00 15.2	30 25	"	"	"	18.1	23 18	00 40 3	2) 17
13904	MIRA C HD 14386	02 14.0	-03 26	"	"	"	18.1	00 52	00 55	2) 10
								00 57	01 01	2) 07
								01 04	01 08	2) 04
13905	15138	12 21.2	+50 07	"	"	"	18.1	01 13	02 45	2) 09
13906	19526	02 03.0	60 15	"	"	"	18.1	11 30	02 02	2) 08
13907	27483	04 15.2	15 35	"	"	"	18.1	02 07	03 02	2) 05
13908	29104	04 29.8	17 41	"	"	"	18.1	03 25	04 07	2) 04
13909	36484	05 26.9	52 44	"	"	"	18.1	04 11	04 39	2) 03
13910	15138	02 21.2	50 07	"	"	"	18.1	04 46	05 02	2) 02
L	47415	06 29.2	24 24	"	"	"				2) 01
13910F	Focus		Dist							

7 ours 15.660 152
 Vernier reads 23.40
 (= tab - 0.13)

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS	
20 26 3	W 2 05	+12 59	1	7.7 B(3) 3,3,3	Be peng. u. b	
21 0 4	W 2 16	25 53	1	7.65 K5 3,3,3	Vel " fine	
22 34	W 2 07	57 29	1	7.0 Bone 3,3,3	Be " fine	
23 14	W 1 23	49 52	1	6.8 Ave 3,3,3 1?	" " fine	
00 00	1 40 W	30 40	2	8.05 G0 3,3,3	" good u. good	
		-03 14		Approx 5.75 10	Set 1 fine	
				10	Set 5	
				10	Set 9	10575
	24 W	+50 19	2	6.61 F2 3-3-3	stamp	
	25 W	60 15	2	7.27 A15 3-3-3	THIS IS THE 1 st PLATE (4 REQUESTED) fine	
	27 N	13 46	2	6.56 F1 3-3-3	stamp	
	29 N	19 47	2	7.06 F8 3-3-3	stamp	
	31 W	33 45	2-3	6.78 A2 3-3-3	stamp	
	4 01 W	50 30	2-3	6.61 F2 3-3-3	stamp	
				6.78 F8	1/7 Z P.H. LOADED PHOTO NOT NEEDED	
		O.T.B.				

153

Date Wednesday, Oct. 15-16, 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 Angl End
13911	HD 190073	19 ^h 58 ^m .1	+5° 28'	I-25"	E103a+D	.008	+19.5	18 ^h 20 ^m	19 ^h 50 ^m , 4	10 ^m
13912	^{Z And.} HD 221650	23 ^h 28 ^m .9	+48° 16'	"	"	.016	+19.8	20 ^h 05 ^m	0 ^h 05 ^m , 1	10 ^m
13913	15138	02 21.2	50 07	"	"	.008	20.1	00 10	00 35	20
13914	27483	04 15.2	13 38	"	"	"	20.0	00 42	01 02	20
13915	29104	04 29.8	19 41	"	"	"	19.9	01 05	01 47	42
13916	19323	03 06.2	29 26	"	"	"	20.0	01 52	04 10	1
13917	36484	05 26.9	32 44	"	"	"	20.0	04 15	04 35	20
13918	15138	02 21.2	50 07	"	"	"	20.0	04 40	04 58	18
13919	27483	04 15.2	13 38	"	"	"	20.0	05 03	05 25	22
13920	29104	04 29.8	19 41	"	"	"	19.9	05 28	05 52	24
	<i>Focus Test</i>									

Oct. 15

MC
-00.5SC
+30.8MTW
-13.0STW
+0.2Focus Set 15.680
V.R. 23.40

154

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
19 ^h 50 ^m , 4	1 ^h 10 ^m W	+5° 24'	1-2	7.9 Aop	3-3-3
0 ^h 05 ^m , 1	1 ^h 50 ^m W	+48° 32'	2-3	(9.5) Dop	2-2-2
	0 36 E	50 20	3	6.61 F2	3-3-3 <i>slide not closed p guiding strong</i>
	2 00 E	13 43	3	6.56 F4	3-3-3 <i>fine</i>
	1 27 E	19 46	3	7.06 F8	3-3-3 <i>very poor guiding</i>
	2 19 W	29 37	3	8.93 G5	3-3-3 <i>poor guiding</i>
	0 21 W	32 45	3	6.56 A2	3-3-3 <i>poor guiding</i>
	3 52 W	50 20	3	6.61 F2	3-3-3 <i>poor guiding</i>
	2 24 W	13 42	3	6.56 F4	3-3-3 <i>DIFFICULT TO FOCUS</i>
	2 12 W	19 45	3	7.06 F8	3-3-3 <i>" " "</i>
	C.T.B.				<i>10/7</i>

4 P.H. LOADED

BOX PLATES NEEDED

155

Date THURS, OCT 16-17, 1947 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 Ang. End
13921	HD 187 462	19 ^h 45 ^m	+27° 20'	I-25	F1030-C	^{SLT} 008	+22.6	18 16	19 04	
13922	HD 195 790	20 ^h 23 ^m	+27° 10'	"	"	"	+22.6	19 10	21 10	
13923	HD 214 265	21 ^h 31 ^m	+27° 10'	"	"	"	+22.5	21 17	20 57	
13924	" 15138	02 21.2	50 07	"	"	"	22.3	02 15	02 37	1
13925	" 27453	04 16.2	17 38	"	"	"	22.3	00 45	01 11	2
13926	" 27104	04 29.8	19 41	"	"	"	22.4	01 16	01 33	3
13927	" 25126	04 03.0	25 24	"	"	"	22.4	01 39	02 09	4
13928	" 40460	05 13.8	27 17	"	"	"	22.4	01 08	05 25	1
13929	" 36484	05 25.9	32 44	"	"	"	22.4	05 32	05 39	2
	<i>Sumner</i>					Q.T.B.				

SET FOCUS 15.724
 Vern read 23.33 (Tab -13)

-156

2 visitors, confirmed int date

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
	0 ^h 37	+27° 35'	2	7.28 G0	3-3-3 AG 25 <i>guiding</i>
	2 ^h 01	+27° 20'	2	8.33 K0	3-3-3 AG 25 <i>weak</i>
	2 54 W	+27° 31'	2	8.19 K0	3-3-3 AG 25 FROM ^{22.5 22.55} 1st, coast in _{gear stuck} <i>U good</i>
	3 20 E	50 20	2	6.61 F ₂	3-3-3 Double line Binary <i>fine</i>
	1 45 E	13 45	2-1	6.56 F ₄	3-3-3 " " " <i>fine</i>
	1 33 E	19 45	1-2	7.06 F ₈	3-3-3 " " " <i>at top</i>
	1 30 W	28 30	2	8.70 G ₀	3-3-3 AG. 25 <i>l strong</i>
	0 20 W	27 15	2	8.02 K ₀	3-3-3 " " <i>strong</i>
	1 30 W	32 45	2	6.56 A ₂	3-3-3 Binary <i>strong</i>

10/17

	MC	S.C.	MTW	STW
Oct. 17	-01.1	+29.4	-09.8	+0.2

157

Date Friday, October 17-18, 1947 H-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.	Filter Angle End
13920	HD 174329	18 45.1	+24 56	I-25	E 2330	008	+22.0	18 08	19 44	
13921	189123	19 57.2	+25 26	"	"	"	+22.0	18 06	20 00	
13922	20054	20 57.3	+20 56	"	"	"	+22.0	20 08	21 00	
	15138	02 21 1/2	50 04	"	"	"	+22.0	05 34	07 30	

4 visitors, mistaking Oct 17 for Oct 24

Trans - Merrom in 15.715
 Varner 23.35

158

Some temp 72°; heavy haze at all the altitudes

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
1 21 1	+24 58	1	6.62	A27 3-3-3	Binary Light haze
1 21 11	+25 32	?	775	KJ 2-3-2	AJ 25
2 26 11	+27 56	2	875	K5 3-2-	45 25 (40 60 50) increasing time cloud up 22'30 - still in view
2 31 10	30 20	0-	651	F2 3-0	Binary system } binary has opened very faint } but maybe double by + get some distance
					W/S P. L. L. C. P. D.

159

Date *Sun Oct 19-20, 1947* Hel-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 Ang End
13933	MWC 308 HD 175863	18 52.3	59 53	25	E103.0	008	+20.7	18 15	19 03 3	W1
13934	MWC 350 HD 196712	20 34.0	-2 46	"	"	"	20.6	19 08	19 38 4	W0
13935	MWC 320	19 41.3	+5 44	"	"	012	20.4	19 42	21 56 1	34
13936	MWC 397 HD 218393	23 02.6	49 40	"	"	008	20.5	22 02	22 44 2	11
13937	MWC 409 HD 225095	23 58.3	55 00	"	"	"	20.4	22 47	23 59 3	W13
13938	Mira HD 14386	02 14.3	-3 26	"	"	"		00 06	00 08 4	
								00 10	00 14	
							20.3	00 17	00 29	20 14
13939	15138	02 21.2	50 20	"	"	"	20.2	00 36	01 10	1.8 W
13940	27483	04 15.2	13 38	"	"	"	20.2	01 25	02 11	1.3 W
13941	2910A	04 29.8	19 41	"	"	"	20.2	02 14	03 25	W
13942	36484	05 26.9	32 44	"	"	"	20.1	03 25	04 19	4 W
13943	40280	05 52.7	25 46	"	"	"	20.0	04 23	05 27	W
13944	60630	07 44.8	46 12	"	"	"	20.0	05 42	06 06	SE
	<i>Trans Test</i>									

Focus set 15.688

Vern reads 23.38 (= tab - 42)

160

Ending Time EST.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
19 33	W 1 42	59 56	1	6.9 B4e	3, 3, 3 Be prog. fine
19 38 +	W 0 35	-2 36	0	6.3 B9e	3, 3, 3 " good
21 56 1	W 3 45	+5 51	0	8.5 B5xc	2, 2, 2 " Building difficult
22 44 2	W 1 12	49 55	1	6.8 Ave	3, 3, 3 " fine
23 59 2	W 1 32	55 15	2	7.6 B1e	3, 3, 3 " fine
00 14			1	(4.5) M _D	10 set 1 fine
00 17				10	" 5 see 13904
00 19	E 0 14	-3 15		10	" 9 flipper in 8 min out 4 min.
01 28	W +50 20		1	6.61 F2	3-3-3 DOUBLE LINE BINARY
01 33	E 13 44		0-1	6.56 F4	3-3-3 " "
02 22	W 19 47		0-1	7.06 F8	3-3-3 " "
02 44	W 32 46		0-	6.56 A2	3-3-3 BINARY NORRIS
03 16	W 25 46		0	7.85 K ₀	3-3-3 A.G. 2.5 fine
00 5E	46 04		0-1	6.67 A5	3-3-3 BINARY expand through filter! fine
	CTB				10/7

3PH 100. PLATES NEEDED

Oct. 20

MTW	STW
+04.6	+0.7

Focus Set Mic. 15.678

162

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
20:03	12 W	25 31	1	864 K0	3-3-3 A.G. 25 ^{uk} Strong wind image unstable
20:05	15 W	28 26	1	8.54 G0	3-3-3 " " " " fine
20:07	018 W	28 33	1	8.06 K5	3-3-3 " " " " fine
20:09	007 W	50 20	2-3	6.61 F2	3-3-3 DOUBLE LINE BINARY, WIND DOWN; BETTER SEEING ^{fine} - 1st
20:11	111 E	13 44	1-2	6.56 F4	3-3-3 " " " MORE WIND; IMAGE UNSTABLE; TIME LOST IN REPAIRS TO ^{fine}
20:14	014 E	19 45	1-2	7.06 F8	3-3-3 " " " DEC. SLOW MOTION. ^{at}
20:16	153 W	26 07	2	7.83 G5	3-3-3 ^{1st}
20:18	116 W	32 46	1-2	6.56 A2	3-3-3 ^{fine}
20:21	035 W	28 17	2-1	5.20 B7	3-3-3 ^{fine}
20:23	0050	46 04	0-	6.67 A5	3-3-3 ^{fine}
	OTR				^{10/7} ^{fine}

3 P.M. LOADED

PLATES NEEDED

1 P. WRAPPED SEPARATELY IN BAG

"UNSPOTTED"

Focus set 15.696
 Vern read 23.36 (Tab-13)

164

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
	1 ^m 25	+26° 57'	1	7.41 G5	3-3-3 AG 25
	2 ^m 55	+41° 20'	1	6.18 B9	3-3-3 SA = 33
	1 ^m 23	+55° 15'	2	7.6 B1c	3-3-3 Be prag
	1 03W	27 27	2.1	8.03 K0	3-3-3 AG 25
	0 45W	50 19	2.1	6.61 F2	3-3-3 Double line binary.
	0 34E	13 43	1	6.56 F4	3-3-3 " " "
	0 13E	19 46	1	7.06 F6	3-3-3 " " "
	0 42E	32 45	1	6.56 A2	3-3-3 Binary
	1 3W	27 18	1	8.61 G5	3-3-3 AG. 25
					10/7 sky getting murky.

(150 later estimate)

SHOWED ~100 RASC MEMBERS
 3 GUESTS M15 WITH 74"
 HD NEWED NOON 7
 SOLAR TELESCOPE



165

Date Wed. Oct. 22-23, 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
13964	HD 190075	19 ^h 58. ^m 7	+5° 28'	I-25"	E103a-0	.008	+19.5	18 ^h 18 ^m	20 ^h 18 ^m , 2	2 ^h 0 ^m
13965	^{2 And.} HD 221650	23 ^h 28. ^m 9	+48° 16'	"	"	.020	"	21 ^h 30 ^m	0 ^h 30 ^m , 3	2 ^h 28 ^m
13966	MVC 397 HD 218395	23 02.6	49 40	"	"	.008	19.8	00 55	01 45	46
13967	15135	02 21.2	50 07	"	"	"	19.8	01 43	02 31	48
13968	27483	04 15.2	13 38	"	"	"	19.7	02 29	03 01	2
13969	5970	04 29.8	14 41	"	"	"	19.8	03 03	04 19	7
13970	36484	05 26.9	28 44	"	"	"	19.8	04 13	04 35	12
13971	48673	06 37.0	27 47	"	"	"	19.8	04 52	06 10	12
	Dress Test									

Focus. Set 15.680

166

K.R. 23.35-

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
20 ^h 18 ^m 2	2 ^h 15 ^m W	+50° 37'	0-1	7.9 Aop.	3-3-3 ← Showed Forest Hill H.S. at distance (~80)
0 ^h 20 ^m 3	2 ^h 35 ^m W	+48° 32'	1-2	(9.5) Ocp.	1½-1½-1½ M 15" with 74"
01 42	4 26 W	49 55	0	68 AVE	3-3-3 CHANGED SLIT LENGTH & WIDTH INTERRUPTED BY 100' BAYWALLEY'S COMPT. ...
02 11	1 46 W	30 20	0-1	6.61 F2	3-3-3 STRONG W. WIND, IMAGE UNEQUAL
02 21	0 21 W	13 45	0-1	6.56 F4	3-3-3
02 31	2 32 W	14 46	1	7.06 F8	3-3-3
02 41	1 05 W	32 46	1	6.56 A2	3-3-3
02 50	1 12 W	27 46	1	7.77 K0	3-3-3 10/7.
		0 58			
					2 P.H. LOADED
					2 Box PLATED NEEDED
					WATCH YOUNG OF CH

SET FOCUS 15.628

168

Vern read 23.64 (Tab - .13)

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS	(U of T. open night)
20:15	2 ^h 04	+26° 03'	0	7.44 K0	3-3-3 AG25 ^{in coronax} with ph } dock slide open ~ 1/8" with tilt-circle light on	Good
20:20	1 45 W	+25° 20'	0	7.33 K0	3-3-3 AG25 } (coronax 250 v screen saw 11/15/94 moon in solar tele. scope, etc. 1990s)	Good
20:25	0 42 W	50 20	0	6.61 F2	3-3-3 Double line binary	Good
20:30	0 36 E	13 43	0	6.56 F4	3-3-3 " " "	l weak
20:35	0 05 E	10 47	0	7.06 F8	3-3-3 " " "	Good
20:40	0 28 E	82 45	0	6.56 A2	3-3-3 Binary	l weak
20:45	1 57 W	29 08	0	8.57 G5	3-3-3 A.G. 25	Good

10/7

focus ok

Thursday - Univ open night - about 270 minutes

169.

Date Friday, Dec 28 - 15, 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.
13979	HD. 190073	19 ^h 58. ^m	+5° 28'	I-25"	E103 _A -O	1008-	+9.5	18 ^h 28 ^m	20 ^h 10 ^m , 1.
13980	HD. 218393	23 ^h 02. ^m	+49° 40'	"	"	"	+9.4	22 ^h 40 ^m	23 ^h 40 ^m , 2.
13981	^{Mina} HD 1457502	14.5	-03 26	"	"	"		00 29	00 31
								00 49	01 01
								07 05	07 07
							9.5	01 15	01 17
13985	HD 15725	02 21.5	+50 07	"	"	"	+9.5	01 31	01 33
13983	24753	04 15.5	13 28	"	"	"	9.5	02 15	02 26
13984	25105	14 29.0	19 44	"	"	"	9.5	03 09	03 43
13982	36484	00 25.4	26 44	"	"	"	9.7	03 47	04 11
13986	43707	06 21.1	27 42	"	"	"	9.6	04 15	04 31
				<i>Winter's Work</i>					
					150				
					80				
					270				
					300				
					200				
					<u>1000</u>				
						all clear			

Inc: About 300 visitors (U. open night)
 showed 74" (p cyg + 8 Lac), 5" (C), 11" (C),
 4" (C).

Foam reb. 15.545
 Y.R. 23.50

170

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
20 ^h 00 ^m	2 ^h 05 ^m W	+2° 34'	0	7.9 App	3-3-3
20 ^h 15 ^m	2 ^h 30 ^m W	+49° 52'	0	6.8 Ave	3-3-3 Be Prop.
20 ^h 30 ^m					
20 ^h 45 ^m					
21 ^h 00 ^m					
21 ^h 15 ^m					
21 ^h 30 ^m					
21 ^h 45 ^m					
22 ^h 00 ^m					
22 ^h 15 ^m					
22 ^h 30 ^m					
22 ^h 45 ^m					
23 ^h 00 ^m					
23 ^h 15 ^m					
23 ^h 30 ^m					
23 ^h 45 ^m					

Sat Oct 25 - 26 About 200 visitors. Clear

2000 to 2130. Showed 74" (p cyg) 5" (moon)

Hd. No.

1 P.H. LOANED

NO PLATES NEEDED

FLIPPER SHOULD BE TIGHT

CHECK BEFORE EXPOSING.

171

Date Sunday, Oct. 26-27, YU -

Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.
13987	HD 190073	19 ^h 58. ^m 1	+5° 28'	I-25"	E103 _{a-D}	.008	+17.8	18 ^h 09 ^m	19 ^h 40 ^m , 1
13988	2 And. HD 221650	23 ^h 28. ^m 9	+48° 16'	"	"	.018	+17.9	19 ^h 55 ^m	23 ^h 55 ^m , 2
	HD 190073	2 143-43.25							

Focus Set 15.658

V.R. 23.40

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Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
19 ^h 40 ^m	1 ^h 40 ^m W	+5° 27'	1-2	7.9 Obj	3-3-3 Checked flipper
23 ^h 55 ^m	2 ^h 25 ^m W	+48° 32'	2	(9.5) Obj.	1½-1½-1½
					Getting set on 17.15 when clouds came over from the west Closed at 2.30 sky clear.
					Oct. 27 MC SC MTW STW -04 ^s +25 ^s +00.8 +0.7

173

Date *Hydron Oct 27. 25/47 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
13989	{ <i>Hydron</i>	02 14.3	05 26	I-25	E-103:0	555 200	+ 17.8	22 58	23 22	
		"	"	"	"	"	"	23 23	23 23	
13990	HD- 15138	02 21.2	50 07	"	"	"	17.7	25 53	10 35	
13991	27423	04 40.3	13 38	"	"	"	17.8	00 26	01 12	
13994	29104	04 27.8	19 41	"	"	"	17.7	01 27	02 07	

774

Focus set Mic. 15.657

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
					Power went off while getting started, back on at 20.00' by Ken Jarczyk. Waited to take a plate on Mic.
1947	0 50E	-03 13	1		4 1/2 - 4 1/2 } Time set 6 min. in 13 min. but
1947	"	"	"		4 1/2 - 4 1/2 } Sky hazy with light clouds.
1947	0 50E	50 13	2	6.67 F2 3-3-3	Binary Double Mic. 10-25 THICK to star
1947	1 50E	13 43	1-2	6.66 F4 3-3-3	" " "
1947	0 50E	19 47	2	7.06 F8 3-3-3	" " "
		R.T.B.		1/7	end of plate under mic focus c. st. 2 rods
					3 PH LEADED PLATES NEEDED
					CHECKS - RIGHT AFTER EXPOSURE.

CLOUDY OVER WHILE
" SITTING ON BUNK. irregular
around 1/2 time. 1/2
end of plate under mic
focus c. st. 2 rods

175

Date Tues, Oct 28-29, 1947 W. M. - Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.
13993	790 228	19 ^h 50 ^m	+28 ^o 02'	T-25	E103a0	³⁴⁷ 0.2	16.2	18 00	19 30
13994	^{206 374} 206 35	21 36 ^m	+27 12'	"	"	"	16.2	19 50	21 55
13995	HD 224 205	22 36 ^m	+27 52'	"	"	"	16.2	22 01	02 05
1947 Oct 31 - Nov 1				changed from 25-in. to 12 1/2-in cameras				H-N.	
13995 F	Focus test				E103a0	.008	+09.2	tilt	20 32

SET FOCUS 15.532

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Vern 23.43 (Top - 0.13)

Plunger 104
Flipper 104

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
1558	+22°10'	1-0	7.72 G5	3-3-3	AG25
2000	+26°51'	1	7.70 G5	3-3-3	AG25
2015	+28°00'	1	7.95 K0	3-3-3	AG25

2000 Start
2010 commenced
2015
2015

1742-1748

HM	alt was	Focus	Vern	Set.	MC	SC	MTW	STW
	23.18				Oct. 29	-04.7	+24.7	+07.5
	22.40 (over)				31	-05.2	+24.3	+0.5
	11.00	13.060	25.98	2	Exposures	6-4	+14.8	+0.5
		12.860	26.20	5		6-4		
		12.960	26.10	8		6-4	← best focus.	
						↑		
							Two filters out, as for 25-inch.	

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Date Friday, October 31 - Nov 1, 1947 H - 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.	Inc Angle Ecl
13996	HD 190470	20 00.0	+25 30	I-12	E 103a0	008	+9.2	17 53	18 39	-
13997	197514	20 39.1	+26 54	"	"	"	+9.3	18 42	19 30	3
13998	204921	21 26.7	+29 50	"	"	"	+9.2	19 32	20 14	4
13999	²¹⁴³⁶⁹ W Cep	22 32.6	+57 54	"	"	"	+9.3	20 18	21 02	1
14000	218454	23 03.1	+29 54	"	"	"	+9.3	21 11	21 53	2
14001	111	00 00.9	+27 43	"	"	"	+9.3	21 55	22 25	3
14002	4744	00 44.4	+29 54	"	"	"	+9.3	22 28	23 08	4
14003	5705	00 53.6	+27 08	"	"	"	+9.3	23 09	23 43	1
14004	¹⁴³⁸⁶ Mira	02 14.3	-03 26	"	"	"	+9.2	23 ⁴⁸ 52	00 ³¹ 07	2
14005	14146	02 12.2	+28 34	"	"	"	+9.2	00 05	00 40	3
14006	15138	08 21.2	50 07	"	"	"	+9.2	00 55	01 11	1
14007	27483	04 15.2	13 38	"	"	"	+9.2	01 18	01 35	2
	28184	04 29.8	19 41	"	"	"				
14008	26090	04 02.7	28 56	"	"	"	+9.5	01 42	03 04	1
14009	36984	05 22.9	32 44	"	"	"	+9.2	03 04	03 14	1
14010	38221	05 29.4	35 00	"	"	"	+9.2	03 20	04 24	1

Frames left as it was - micrometers 12.960
 Vernier: 26.70

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Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
21:00	057W	+25 39	1-2	8.51 K0	^{2 filters out} 1-2-1	AG 25
21:01	09W	+27 05	2	8.72 M2	1-1-1	AG 25 Clock driving poorly. Hydro variation?
21:05	05W	+30 03	2-1	8.49 K0	1-1-1	AG 25
21:02	048W	+58 07	2	8.05 Mp	1-1-1	Melabau variable. Very red. 7.5 mag? 1-2
21:02	09W	+30 06*	2-1	8.47 K5	1-1-1	AG 25 Trouble identifying this, checked map. ^{Dec off 4!} 1-2
21:05	42W	+27 56*	1-2-1	8.02 K2	1-1-1	AG 25 *Dec reading 4' south. 1-2
21:07	42W	+30 09	1-2	8.41 G5	1-1-1	AG 25 checked map, about only 1'S. 1-2
21:08	07W	+27 21*	2-1-0	8.11 K0	1-1-1	AG 25 * 3' south. 1-2
21:09	06W	-03 14	1	var M	$\frac{3}{3}$	} guided as +det. Ephemeris 60°, 150°, 10°. 1-2
21:09	055W	+25 46	1	8.20 M0	1-1-1	AG 25 1-2
21:11	105W	+50 20	1	6.61 F2	1-1-1	BINARY 1-2
21:12	026E	+13 42	1	6.56 F4	1-1-1	BINARY 1-2
				7.06 F8		MOON IN QUADRANT E/PIECE, 1-2
21:13	135W	+29 03	1	8.96 G0	1-1-1	AG 25 1-2
21:13	036W	32 46	1	6.56 A2	1-1-1	BINARY 1-2
21:14	104W	20 06	1	8.58 K0	1-1-1	AG 25 : BRIGHTER 1-2

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
04 49	2 38 W	19 44	0-1	7.06	F81-1-1 BINARY SMALL PORTION OF MOON STILL VISIBLE IN [LIND. EYE PICS]
05 20	0 34 W	26 30	'	7.71	K01-1-1 P.G. 25
06 18	0 54 W	26 24	D	7.71	G52-1 P.G. 25 CLOUDS.
	O.T.B.			¹⁰ / ₇	ends OK, centre to red in middle

4 P.H. LOADED
2 BOXES P. NEEDED.

focus 12.920 (not disturbed)

} Probably small diff
but focus as for 14013

focus shortened to 12.920

FOCUS. 12. 9. 20

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SUNSHINE VA BUREAU OF AGRICULTURE AND MECHANICAL INDUSTRIES, JULY 2

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
0° 39	+23° 41'	0-1	8.23 K5	1-1-1	AG 25 { BEARS FR. TRANSITARY - ORBIT - VARIATION = TYPICAL TENDENCY OF PRODIGE work TREATMENT ADMINISTRATION SCHEMATIC
0° 55	+27° 17'	0-1	8.54 K2	1-1-1	AG 25 { strong
0° 21	+19° 41'	1	8.15 K2	1-1-1	AG 25 { (ABOUT 75 VISITORS (YVICA?) SOA CLASS & IMAGE OF HD 210654 strong
0° 30	+15° 53'	1-0	8.77 K0	1-1-1	AG 25 { fine
0° 43	+15° 12'	1	8.43 K0	1-1-1	AG 25 { strong
0° 49	+20° 31'	2	8.31 K2	1-1-1	AG 25 { fine
0° 54	+27° 18'	2	8.38 K0	1-1-1	AG 25 { fine
0° 58 W	30 22	2-3	8.91 K0	1-1-1	AG 25 { fine
1° 31 W	25 30	2-3	8.89 G0	1-1-1	AG 25 { fine
1° 16 W	23 02	2	8.93 G0	1-1-1	AG 25 { too strong
0° 16 W	26 27	2	8.90 K2	1-1-1	AG 25 { fine
2° 47 W	23 29	2	8.23 G0	1-1-1	AG 25 { too strong
1° 19 W	28 32	2	8.96 K2	1-1-1	AG 25 { strong
				6/4	fine to strong

183

Date Sun Nov 2-3, 1947 Hd-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
14027	HD 189317	19 54.3	28 20	I-12	E10300	008	+12.1	17.49	18 31 3	10.3
14028	HD 189796	19 56.7	29 33	"	"	"	12.1	18 34	19 54 4	10.3
14029	AG 13020	21 51.7	25 58	"	"	"	12.1	19 ⁴⁴ 35	21 04 1	10.3
14030	HD 218393	23 02.6	49 40	"	"	"	12.1	21 08	21 18 2	10.4
14031	HD 220684	23 20.6	25 39	"	"	"	12.1	21 21	22 31 3	10.3
14032	HD 4006	00 37.5	29 34	"	"	"	12.1	22 34	23 12 4	10.4
14033	HD 10866	01 41.5	25 40	"	"	"	12.1	23 16	23 58 5	10.4
14034	HD 13565	02 07.3	30 06	"	"	"	12.1	00 01	00 34 2	10.4
14035	19823	03 56.2	29 26	"	"	"	12.1	00 38	01 47 3	10.4
14036	29846	04 31.3	25 32	"	"	"	12.0	01 52	02 06 4	10.4
	<i>Secure Test</i>									

Focus 12.920.

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Ending Time L.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
1831	W 1 03	28 25	0	8.19 G5	1-1-1 Vel prog
1905	W 2 03	29 40	0	8.40 G5	1-1-1 " " "
2104	W 1 39	26 12	0	8.72 G0	1-1-1 " Wrong at first
2108	W 0 42	49 54	1	6.8 Ave	1-1-1 Be prog
2233	W 1 37	25 53	1	8.77 K0	1-1-1 Vel. prog.
2302	W 1 01	29 47	1	8.09 G5	1-1-1 " "
2315	W 0 43	25 52	2	8.51 K0	1-1-1 " ^{expected} plate up & down in holder?
0005	051W	30 20	2	8.30 G5	1-1-1 " HAZE & CLOUD BANK IN S. ^{numbered 14035}
0011	1 09 W	29 37	2	8.93 G5	1-1-1 " HAZE STREAMERS EXTENDED TO ZENITH
0016	056W.	25 38	2	8.48 K2	1-1-1 HAZE
	O.T. B.				6/4
					4 P.H. LOADED
					DEC. CLAMP STUCK. COULD NOT LOWER
					TEL. <u>MIRRORS STILL UNCOVERED</u>

185

Date *Thurs. Nov. 6-7. 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.
14037	CG Cygni	20 ^h 54 ^m	+34° 47'	I-12"	E103a-0	.016	+11.2	18 ^h 00 ^m	21 ^h 00 ^m , 2
14038	2 And. HD 221650	23 ^h 28 ^m	+48° 16'	"	"	.008	"	21 ^h 10 ^m	23 ^h 40 ^m , 3
14039	" 14876	02 18.9	27 13	"	"	"	11.5	23 52	00 48 4
	(<i>True Field</i>)				<i>O.T.B.</i>				

Focus 12.920

186

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS										
21 ^h 50 ^m	2 ^h 50 ^m W	+34° 57'	1-2	(10.2)	$\frac{1}{2} - \frac{1}{2} - \frac{1}{2}$ 17 ^h 00 ^m - 19 ^h 55 ^m : intermittent clouds.										
28 ^h 5 ^m	2 53 W	+48° 32'	2	(9.5) Op	1-1-1										
00 00	1 11 W	27 25	2	8.79 Ko	1-1-1 AG. 25										
					6/4										
					Wags and clouds Waited an hour and a half, sky getting worse so closed.										
					<table> <tr> <td></td> <td>MC</td> <td>SC</td> <td>MTW</td> <td>STW</td> </tr> <tr> <td>Fri. Nov. 7</td> <td>-07.8</td> <td>+20.4</td> <td>+16.5</td> <td>+0.6</td> </tr> </table>		MC	SC	MTW	STW	Fri. Nov. 7	-07.8	+20.4	+16.5	+0.6
	MC	SC	MTW	STW											
Fri. Nov. 7	-07.8	+20.4	+16.5	+0.6											

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Date Saturday, Nov 3-9, 1917 W-W Julian Day
(NR)

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.
14010	AG 11471	20 ^h 55 ^m 4	+25° 25'	I-12	D1140	55 008	+7.7	17 49	18 27
14041	HD 20607	21 ^h 40 ^m 7	+29° 56'	"	"	"	+7.5	18 43	19 05
14042	HD 218610	23 ^h 04 ^m 3	+26° 23'	"	"	"	+7.0	20 12	21 30
14043	HD 2732	21 ^h 55 ^m 7	+25° 01'	"	"	"	+7.5	21 36	22 38
14044	HD 17205	22 ^h 40 ^m 0	+23° 08'	"	"	"	+7.6	25 43	26 15
<i>Free field</i>									
	<i>Sunday</i>	<i>Nov 9-10</i>		<i>Sky</i>	<i>Overcast</i>	<i>Y-L</i>			
	<i>Monday</i>	<i>Nov 10-11</i>		<i>Sky</i>	<i>Overcast - Rain</i>	<i>L-W</i>			

Focus 12.020

Position 3450000 (a) showing line
 Quoted for comparison also used dead 211.210 dead
 and in Dome-turning. Ref. first dead.

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
	0 ^W 57	+25°38'	0	8.19 G5	1-1-1 AG Prog 1.3.1.112 ⁺ <i>1.1.1.1</i>
	0 ^W 14	+20°10'	0	8.39 G0	1-1-1 AG Prog <i>good</i>
	0 ^W 15	+26°37'	0+	8.83 K0	1-1-1 AG Prog <i>1.1.1.1</i>
	0 ^W 22	+20°14'	0	8.77 K0	1-1-1 AG Prog <i>1.1.1.1</i>
	0 ^W 17W	30 27	0	8.55 G5	1-1-1 AG Prog <i>1.1.1.1</i>
		O.T.B		6/A	<i>centre to violet</i>
					OVERCAST BY 0115 CLOSED TEMPORARILY
					CLOSED 0330. WINDS LIKE SNOW
					TEMPERATURE CLEAR-
					4 P.H. LOWELL
					BLACK BOX OF GUP PLATES
					IN ERIC.
					HEAT ON WALL

189

Date Tuesday, Nov. 11-12, 1947 W. - 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
14045	HD 1633	02 ^h 15 ^m .5	+25°56'	I-12	[11300	005	+6.7	21 21	22 23	
14046	HD 40372	05 ^h 53 ^m .2	+1°49'	"	"	"		22 27	22 55	
14047	HD 4386	02 ^h 14 ^m .3	-03°26'	"	"	"	+6.5	22 15	22 45	
14048	HD 17673	02 ^h 45 ^m .1	+30°18'	"	"	"	6.6	23 40	00 40	
14049	24505	03 40.2	17 04	"	"	"	6.6	00 48	02 04	
<i>Focus Test</i>										
14050	40373	05 53.2	01 49	"	"	"	6.6	03 21	04 05	
14051	5676	1 7 13.3	27 00	"	"	"	6.7	04 10	05 31	
14052	74549	08 40.2	24 57	"	"	"	6.7	05 04	06 12	

Overcast only
 ~2030 with wind. Starting
 to clear by 2100.
 Stratosphere clear = 2.4 mi.

Focus 12.920

190

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
	1 ^h 10	+22° 13'	0-	3.43 KO 1-1-1	AG25 <i>fine</i>
	3 ^h 55	-1° 49'	0	6.20 A5 ³ / ₃	Nadeau's Binary <i>very good</i>
	2 ^h 14	-03° 13'	0	... M ³ / ₃	Var <i>fine</i>
	01 01 W	30 18	0	8.33 KO 1-1-1	AG25 <i>VERY STRONG WIND. MANY PATCHY CUMULUS, HAZE.</i> <i>fine</i>
	02 17	28 02	0	8.77 G5 1-1-1	AG 25 <i>AG 25 clouds but 16 stars (had faint one as a late) focus & to center.</i> <i>fine</i>
	02 5 W	41 54	0	6.20 A5 1-1-1	BINARY CLUSTERS <i>extremely</i>
	01 21 W	26 35	0-1	8.46 KO 1-1-1	<i>too strong</i>
	01 33 W	27 46	0-1	7.74 KO 1-1-1	<i>fine</i>

S. P. H. LOADED

MR. LANSBROUGH TOP PART OF 2 COVERS WITH
 CRACKS IN LARGE MIRROR WOULD NOT CLOSE.
 DO NOT TRY TO FORCE IT - IT WILL BE
 WASTING MONEY!

	ME	SC	MTW	STW
Nov. 12	-09.5	+17.0	-26.2	+0.7

Focus set 12.935-

192

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS	
18 ^h 03 ^m	h 10 ^m W	+5° 37'	1	7.9 Acp	1-1-1	
		+34° 58'	2	(10.0)	$\frac{1}{2}$ -	18 ^h 15 ^m Clouded up
	O.T.B.				$\frac{6}{4}$	21 ^h still cloudy + no sign of clearing

193

Date Thursday, Nov. 13-14, 1947 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
14054	HD 5007	00 ^h 47 ^m 0	+25°14'	I-12	E10300	SLT 005	+3.0	21 33	22 22	01
14055	HD 11650	01 ^h 49 ^m 2	+21°20'	"	"	"	+3.0	22 43	23 43	1
14056	" 19485	03 02.8	25 13	"	"	"	+3.0	23 47	01 01	2
14057	" 25834	04 00.6	30 00	"	"	"	+3.0	01 06	02 24	3
14058	" 38750	05 42.9	25 36	"	"	"	+3.0	02 29	03 39	4
14059	" 32101	06 39.8	29 54	"	"	"	+3.0	03 42	04 57	5
14060	" 64833	07 50.7	26 22	"	"	"	+3.0	04 44	05 38	6
14061	" 77694	08 59.0	25 51	"	"	"	+3.0	05 42	06 30	7
	<i>Low Fuel</i>					O.T.B.				

Focus 12.935

Broken clouds at sunset; by
2100, only clouds around
horizon

194

Ending Time
E.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
1 ^h 01	+25° 30'	0	8.48 K0	1-1-1 AG25 v good
1 ^h 03	+27° 35'	0+	8.49 G5	1-1-1 AG25 fine
1 ^h 07 W	25 22	0	8.70 G5	1-1-1 AG.25 fine
1 ^h 32 W	30 02	0+	8.56 K2	1-1-1 AG.25 2 stars
1 ^h 56 W	35 28	1	8.91 K0	1-1-1 AG.25 fine
2 ^h 21 W	37 47	1	8.63 G5	1-1-1 AG.25 fine
2 ^h 57 W	25 15	1	8.62 K0	1-1-1 AG.25 fine
2 ^h 41 W	24 47	1	8.40 K0	1-1-1 AG.25 fine good (5)
				3/4
				RE. Plates - 4 holders loaded
				8 plates in package in dome
				13 plates in black box in refrigerator

195

Date Friday 1947 Nov. 14-15 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
		h	m	°	'					h	m	h	m	
14062	H.D. 194525	20	21.0	+30	15	1-2 $\frac{1}{2}$	E-103a0	.008	+03.8	17	35	18	24	
14063	{	200546	20	59.0	+26	56	-	-	+03.8	18	30	19	50	
		214586	22	49.0	+28	00								
	{	focus test												
		Completely overcast, cloud up 20 30; started to clear 21 30; Considerable haze in south, gradually clearing (?)												
14064	H.D. 11432	21	47.5	+28	19				+03.4	22	35	23	53	

Set focus to 12923

196

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp.	REMARKS										
	1 16 W	+30° 23'	0-1	8.12 G5	1-1-1	U. ...										
		+27 07	0-1	8.78 K5	1-	observed from NE classroom 19 03										
				8.45 K0												
					6-C	found on										
						showed Orinda Public School grade 8 students (45) telescope and transport										
	2 12 W	+28 34	1-0	8.06 K5	1-1-1	High.										
						holding steadily & ...										
						<table border="0"> <tr> <td></td> <td>MC</td> <td>S.C.</td> <td>MTW</td> <td>STW</td> </tr> <tr> <td>Nov. 17</td> <td>-10.0</td> <td>+147</td> <td>-03.0</td> <td>+0.6</td> </tr> </table>		MC	S.C.	MTW	STW	Nov. 17	-10.0	+147	-03.0	+0.6
	MC	S.C.	MTW	STW												
Nov. 17	-10.0	+147	-03.0	+0.6												

197

Date Wed. Nov. 19-20, 1947, Y0 -

Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.
14065	Σ And. HD 221650	23 ^h 28 ^m .9	+48° 16'	I-12"	E103 _{a-o}	.028	+3° 7	19 ^h 50 ^m	22 ^h 20 ^m , 4
14066	HD 12535	01 ^h 57 ^m .8	+27° 00'	"	"	"	+3° 8	22 ^h 28 ^m	22 ^h 50 ^m , 1
14067	HD 15326	02 ^h 22 ^m .9	+29° 14'	"	"	"	"	22 ^h 57 ^m	23 ^h 10 ^m , 2
14068	HD 18554	02 ^h 53 ^m .9	+30° 12'	"	"	"	"	23 ^h 30 ^m	, 3

Focal Test

Focus set 12.925

198

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
22 ^h 26 ^m 4	2 ^h 25 ^m W	+48° 30'	1-2	(9.5) Cep	1-1-1 Cloudy Clears up 19 ^h 30 ^m fine
22 ^h 50 ^m 1	0 ^h 25 ^m W	+27° 12'	2	7.93 Ko	1-1-1 AG 25 ^m not quite at fine edges
23 ^h 10 ^m 2	0 ^h 22 ^m W	+29° 26'	"	7.58 G ₁	1-1-1 very sharp
		+30° 23'	1	8.60 G ₅	1- Clouds
		O.T.B			6/4



199.

Date Thursday, November 20-21, 1917 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.	Star Angle End
14068	HD 6525	01 ^h 01 ^m	+29°10'	I-12	E103a-D	^S 005	+3.5	21 23	22 23	
14069	HD 13613	02 ^h 07 ^m .7	+24°55'	"	"	"	+3.5	22 25	23 25	
14070	HD 21820	03 ^h 25 ^m .0	+29°12'	"	"	"	+3.5	23 45	24 47	
14071	" 32447	04 35.2	30 19	"	"	"	+3.5	00 34	01 37	
14072	" 39410	05 47.4	25 53	"	"	"	+3.4	01 01	02 01	
14073	AS- 3E28	07 47.6	23 44	"	"	"	+3.4	05 37	06 39	
14074	HD- 67628	09 03.8	29 29	"	"	"	+3.4	04 45	05 37	
14075	" 85440	09 36.3	28 15	"	"	"	+3.3	05 41	06 37	
	Time out				O T E					

FOCUS: 12.925

Cloudy or overcast until abt 2015. Haze.

200

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
0059	28 25	0+	8.33 G5	1-1-1	AG25	good
0100	25 07	1	8.34 G2	1-1-1	AG25	w good
0138W	29 21	0-1	8.78 K0	1-1-1	AG25	1 stream
0151W	30 18	0-1	8.96 K7	1-1-1	AG.25	* ^{seems OK} Wrong star? heat
0211W	29 03	0V	8.75 G6	1-1-1	AG.25	fine
0238W	28 33	1	8.91 G0	1-1-1	AG.25	5/1 fine
0257W	29 16	1	8.65 K5	1-1-1	AG.25	fine
0321W	28 01	1	8.49 K0	1-1-1	AG.25	1

4 holders loaded.

21 plates in box in refrigerator

Nov. 24 HE SE N SW
 -077 +15 -267 +03

also in...

Sat., Nov 22-23. Overcast or cloudy - Wm
 Tues., Nov 25-26 Overcast Wm.

Focus: 12.9^{rs}

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
18 ^h 45 ^m	1 ^h 50 ^m W	+34° 57'	0	(10.2)	$\frac{1}{2} - \frac{1}{2} - \frac{1}{2}$ (not enough exp.) 18 ^h 45 ^m Clouded over $\frac{4}{3}$
21 ^h 30 ^m	1 ^h 3 ^m W	+29° 9'	0	6.97 A3	1-1-1 20 ^h 45 ^m clear up again
22 ^h 25 ^m	5 ^h 45 ^m W	+29° 19'	"	8.88 G0	1-1-1 AG 25 22 ^h 25 ^m clouded up again

1 Plate Holder loaded

Overcast; cloudy, sometimes clear out
of morning. W.

	MC	SC	MTW	STW
100.23	-06.3	+161	-10.0	+0.5

Focus 12.925

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
18 34	W 1 36	27 05	0	8.36 K ₀	1-1-1 Vel. prog.
18 57	E 1 13	29 12	0	6.97 A ₃	1-1-1 T Binary
20 02	W 1 10	27 55	0	8.44 K ₂	1-1-1 Vel. Prog.
21 10	W 1 22	30 25	0	7.95 K ₀	1-1-1 " " legit clouds
21 30	E 4 15	+1 48	0	6.20 A ₅	3 No Binary
22 30	W 1 17	25 10	0	8.70 K ₀	1-1-1 Vel. prog. go after the binaries
23 00	W 3 00	29 10	0	6.97 A ₃	1-1-1 Star gone at 2305
23 45	E 1 55	+1 48	0	6.20 A ₅	2-2 " practically gone at 2345

Focus 12 925

206

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
18:42	1 ^m 27	+ 25° 39'	1	8.68 K0	1 ^s -1-1	AG 25 fine
20:15	0 ^m 59	+ 29° 09'	1	8.96 G5	1-1-1	AG 25 good
21:05	1 ^m 16	+ 28° 36'	1	8.93 K5	1-1-1	AG 25 low
22:00	2 ^m 05	+ 25° 05'	1-0	8.98 G5	1-1-1	AG 25 clouds ~ 22:10 clear ~ 22:12 74" field good
22:00	1 04 W	26 44	1	8.77 ^(?) G5	1-1-1	AG 25 fine
23:00	2 44 W	30 18	1	8.96 K7	1-1-1	AG. 25 Clouds 1.20-2.30 good
03:50		26 46	1	8.70 K0	1-1	AG. 25 Clouding over again at 3.50 good c.d. E. side more cloud. close up later.

F. 205 12.9.25

208

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
		+34° 58'	1	(10.2)	$\frac{1}{2}$ - 18 ^h 35 ^m intermittent clouds
21 ^h 10 ^m	1 ^h 50 ^m W	+34° 58'	0	(10.2)	$\frac{1}{2}$ - $\frac{1}{2}$ - $\frac{1}{2}$ 18 ^h 45 ^m completely clouded over.
	3 ^h 43 ^m E	+1° 49'	0	6.20 A ₅	4 Na Binary W-⊙ 19 ^h 40 ^m Clear up again, start new exp.
	3 ^h 33 ^m W	+29° 27'	1	8.18 K ₂	1-1-1 AG 25 W-⊙
23 ^h 40 ^m	1 ^h 03 ^m W	+30° 23'	1	8.60 G ₅	1-1-1 AG 25 W-⊙ 2 ^h 45 ^m thin clouds
	1 ^h 50 ^m W	+29° 02'	1	8.75 K ₀	1-1-1 AG 25
	2 29 E	01 50	1	6.20 A ₅	1-1-1 No sign of clearing - took 40 ^m at 2 30 E.S.T. W-⊙
	L.T.B.				$\frac{1}{4}$ 5 ⁰⁰
					NO SIGN OF CLEARING; CLOSE 02 45
					2 P.H. LOADED
					HEAT ON GALV. 4 O'CLOCK
					MC SC MTW STW
					Dec. 1 -04.6 +0.1 +0.2 +0.9
					Dec. 8 00.0 -03.7 -08.2 +0.2
					(rest during previous week)
					Dec 4-5 } Overcast - Wm
					Dec 5-6 }

DOME TEMP. +15° F

Focus 12.025

210

CLOUDY & WINDY; CLOUDS ON HORIZON (LOW)
STEADY AFTER 10:00

FOUND SWITCH-PLUG ON GALV. BRIDGE IN PLACE; TESTED
W FEELERS CLAMPING GALV. POINTER

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
1 ^h 13	+29° 57'	0	8.61 KO	1-1-1	AG 25 fine
1 ^h 02	+28 02'	0	8.70 KO	1-1-1	AG 25 1 week
1 ^h 05	+26° 15'	0	8.61 GO	1-1-1	AG 25 fine
0 ^h 25	-39 12'	0	var M	3	$\frac{1}{2} \pm$
				3	" 5
				3	" 9
1 ^h 13	+25° 51'	0	8.52 G5	1-1-1	AG 25 fine
1 ^h 11	26 41	0	8.53 GO	1-1-1	AG 25 fine
0 ^h 33 W	28 13	0	8.57 GO	1-1-1	FIELD AS SHOWN VAR. good
0 ^h 11 W	28 40	0	8.19 KO	1-1-1	AG 25 fine
1 ^h 01 N	24 55	0	8.84 G5	1-1-1	AG 25 fine
1 ^h 01 W	24 33	0	8.91 G5	1-1-1	AG 25 1 week
0 ^h 07 W	26 24	0	8.12 MO	1-1-1	H4ZK AG 25 good
	O.T.B.			$\frac{10}{14}$ $\frac{6}{14}$	fine
					IP.H. located 2 1/2 x 1/2 in. H. on only 1/2 in. dia

211

Date Thursday, Dec 11-12/47 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
14110	AG. 1158	02 04.5	29 30	I-12 $\frac{1}{2}$	E-103aO	5et 008	-2.0	21 09	22 43	1
14111	MS 23859	03 37.9	25 25	"	"	"	-2.0	22 23	23 55	2
14112	" 33463	05 21.3	29 18	"	"	"	-2.0	27 38	00 18	3
14113	W.Y. G.M.	06 03.9	23 13.7	"	"	"	-2.1	01 24	* GONE 02 00	4
	41 26 51.9	07 16.4	21 21							

Dec 10

MC
+02.5
ResetSC
-06.2MTW
+05.0STW
+0.4^m

212

Ending Time
E.S.P.Hour Angle
End

Declination

Seeing

Ptg. Mag.

REMARKS

Cloudy early in evening clearing from
20.00 on.

1 17W

25 33

2-1

8.86 G₀

1-1-1

AG.25

1 + fine

1 16W

25 33

1-2

8.84 G₀

1-1-1

" "

Clouds from 23 4 5 23 10

0 30W

29 50

1-2

8.51 Ma

1-1-1

" "

1 + fine

0 59W

23 13

1-2

7.76 M₃D

1-1-1

VAR.

CLOUDS

1 + fine

~~8.86 G₀~~

Stream Test Set. (1)

CLOSED G3CC.

4 P.H. LOADED + 17 PL.

H. ON GLOCK + GALV.

Dec-12 MC
+04.2SC
-09.0MTW
+13.0STW
+0.5^m

213

Date Fri. Dec. 12-13, 1947 Hd.-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
14114	W Ceph	22 32.6	+57 54	I- 24 ¹²	E103aD	008	-1.8	18 23	18 55 1	126
14115	HD 664	00 05.8	29 01	"	"	"	-2.2	19 02	20 06 2	145
	Focus test	-	outside	through	base	$\frac{6}{4}$				

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS															
18 55	1 26	58 09	1-2	7 ^{mic} Mp	1-1-1															
20 22	04 W	+29 15	1-2	8.75 G ₀	1-1-1 thick haze moving in from S.W. 19:45															
					<table style="margin-left: auto; margin-right: auto;"> <tr> <td></td> <td>MC</td> <td>SC</td> <td>MTW</td> <td>STW</td> </tr> <tr> <td>Dec. 15</td> <td>+09.8</td> <td>-13.6</td> <td>+23^s.2</td> <td>+0^m.1</td> </tr> <tr> <td></td> <td></td> <td></td> <td colspan="2" style="text-align: center;">reset</td> </tr> </table>		MC	SC	MTW	STW	Dec. 15	+09.8	-13.6	+23 ^s .2	+0 ^m .1				reset	
	MC	SC	MTW	STW																
Dec. 15	+09.8	-13.6	+23 ^s .2	+0 ^m .1																
			reset																	

215

Date Dec. 16-17, 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
14116	CG Cys	20 ^h 54. ^m 2	+34° 47'	I-12"	E103 _{a-0}	1012	0° 0	17 ^h 56 ^m	20 ^h 25 ^m 3	
14117	HD 12029	01 ^h 53. ^m 0	+28° 54'	"	"	1008	"	20 ^h 35 ^m	21 ^h 15 ^m	
14118	HD 17963	02 ^h 42. ^m 1	+29° 42'	"	"	"	"	21 ^h 23 ^m	22 ^h 33 ^m 1	
14119	HD 27483	04 ^h 15. ^m 2	+13° 38'	"	"	"	"	22 ^h 45 ^m	23 ^h 55 ^m	
14120	HD 30467	04 ^h 45. ^m 9	+26° 50'	"	"	"	"	23 ^h 05 ^m	23 ^h 55 ^m	
	HD 54370	07 3.5	26 40	"	"	"	0.0			

Strong West Wind somewhat subsided
17^h 30^m

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
	30 ^m W	+34° 38'	0	(10.2)	$\frac{1}{2} - \frac{1}{2} - \frac{1}{2}$ W. slight clouds to 17:30 Windy - very difficult to guide
21 ^h	40 ^m W	+29° 07'	1	8.12 K ₂	1-1-1 AG 25
22 ^h	5 ^m W	+29° 52'	1	8.82 G ₂	1-1-1 AG 25 Occasional thin clouds
	30 ^m	+13° 43'	1	6.48 F ₂	1-1-1 Double-line Binary
	32 ^m	+26° 55'	1	8.58 G ₀	1-1-1 AG 25 Clouds 23 ^h 20 ^m - 23 ^h 30 ^m
					Clouding over at 23 55
					Clearing later.
		77	1	884 K ₀	AG. 25 Clouding over Phooey! Still stuck at 3.30 no chance to get second plate of binary

Ending Time EST.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
21 ^h 25 ^m	-1. 10 ^m W	+34° 49'	0	(10.2)	$\frac{1}{2} - \frac{1}{2} - \frac{1}{2}$ Clouds 18 ^h 30 ^m - 19 ^h 20 ^m
21 ^h 31 ^m	10 ^m W	-03° 13'	0	var. M	$\frac{3}{3}$ (intermittent cloud) 21 ^h 05 ^m - 21 ^h 08 ^m ; 21 ^h 11 ^m - 21 ^h 17 ^m clouds up 21 ^h 24 ^m ; clear again 23 ^h
					Closed at 3.30 Sky still stuck.

219

Date FRIDAY, DEC 19/20, 1947 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
14 123	HD 212654	23 ^h 12 ^m .4	+29°32'	L-12	[103a-0	SET 003	-8.5 ₅	17 34	18 46	04
14 124	HD 593	00 ^h 05 ^m .3	+28°06'	"	"	"	-9.0 ^{NR}	18 52	20 10	3
14 125	HD 11120	01 ^h 44 ^m .3	+25°15'	"	"	"	-8.5	20 16	21 30	17
14 126	HD 20680	03 ^h 11 ^m .7	+26°34'	"	"	"	-8.5	21 45	23 01	16
14 127	HD 26126	08 ^h 03 ^m .0	+28°24'	"	"	"	-8.5	23 09	00 30	11
14 128	WY GEM.	06 05.9	+23 13.7	"	"	"	-8.5	00 40	02 00	11
14 129	HD 74260	08 37.9	27 36	"	"	"	-8.5	03 07	05 29	11
14 130	HD 92820	10 25.0	26 19	"	"	"	-8.5	05 13	07 27	11
		From	Start							

DOING TEMPS. - 0000 - +08°F
 0700 - 106°F

220

FOCUS 12.925

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
1 ⁰⁴	+29°35'	0	8.70 K5	1-1-1	AG 25 good
1 ³⁵	+23°22'	0	8.79 M2	1-1-1	AG 25 good
1 ²⁷	+25°30'	0	8.93 G5	1-1-1	AG 25 good
1 ¹⁸	+26°15'	0	8.81 G5	1-1-1	AG 25 rather for guiding good
2 ²⁴ W	+28°31'	0	8.70 G0	1-1-1	AG 25 fine
2 ¹⁸ W	23 11	0-1	7.4-7.9 M3ep	1-1-1	YAW. fine
2 ²⁵ W	27 24	0	8.98 K0	1-1-1	AG 25 - DEC SLOW MOTION WOULDN'T MOVE T.H.S. good
2 ²² W	26 00	0	8.97 G0	1-1-1	HALL AG 25 good
	D.T.C.			6/4	slide not clear focus
H. ON BLOCK 5.15.15.					
3 P.H. L.O.A. 22 1 24 Ph.					
Sun. Dec 21-22 Cloudy to Overcast Wm.					

221

Date Tues. Dec 23/24, 1947 Wm - 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
14 131	HD 1501	00 ^h 14 ^m	+23°55'	I-12	E103a-0003		-3.8	18 44	19 34	
14 132	HD 27 483	01 ^h 15 ^m .2	+13°38'	"	"	"	-3.5	19 40	19 52	
14 133	HD 14 479	02 ^h 15 ^m .2	+30°14'	"	"	"	-3.7	20 00	21 12	
14 134	HD 22 340	03 ^h 35 ^m .1	+29°10'	"	"	"	-2.5	21 42	22 22	
14 135	AG 2603	05 ^h 35 ^m .5	+29°13'	"	"	"	-3.9	23 28	24 08	
14 136	HD 27 483	04 10.2	13 38	"	"	"	-3.9	00 22	00 30	
14 137	27 483	04 10.2	13 38	"	"	"	-3.7	00 56	01 01	
14 138	N.S. 5547	06 00.0	22 10'	"	"	-4.0	-4.1	02 10	02 01	
14 139	HD 22 340	04 00.0	29 17	"	"	"	-4.1	03 16	04 02	
14 140	27 483	11 51.3	25 49	"	"	"	-3.9	04 07	04 53	
Total	10 4 012	12 26 0	27 38	"	"	"	-4.0	06 59	07 13	
<i>Spec. List</i>										

AT 1700, TEMPERATURE OF HEATER
 HEATER @ 6' distance from 40"; nature
 of crystals.

222

FOCUS: 12.925

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
1 ^W C	-26°12'	0	8.07 G0	1-1-1	AG25	2 POSSIBLE AB. NO LIGHT BY CRYSTALS & 1/2 MILLI SEC. FIGURE. TIME ADD ²⁰ IN COMPUTING EXP. TIME NB. TILT LIGHT CAMERA AFTER 1/2 P. ON 6-10" SWITCH CIRCUIT DEFECT 1/2 P. <i>poor guiding</i>
(2 ^W 4)	-	0	6.48 F4	3	Binary	
1 ^W 09	+30°57'	0+	8.39 G5	1-1-1	AG25	v good
1 ^W 31	+30°20'	0-1	8.99 G5	1-1-1	AG25	fine
235W	+29°14'	0-1	8.70 G0	1-1-1	AG25	v good
211W	28 44	0-1	6.48 F4	3	BINARY	fine
231W	28 44	0-1	6.48 F4	3	BINARY	v. poor guiding
230W	28 42	1	74-79 M3sp	1-1-1	VAR.	fine
230W	28 05	1	8.96 K.	1-1-1	AG 25	fine
230W	28 23	1	8.84 G.	1-1-1	AG 25	v poor guiding
230W	27 28	1	8.88 K.	1-1-1	AG 25	fine
	Q.T.B.			6/4		

H. ... CLOUDS & GALV.

1 P.H. LOANED BOX PLATES NEEDED

MERRY CHRISTMAS TO ALL

223

Date Thurs. Dec. 25/26, 1947 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
14 142	HD 223 138	23 ^h 41. ^m 9	+27°52'	T-12	E103aO	^{SET} 203	-2.3	18 01	18 45	53
14 143	HD 5462	00 ^h 51. ^m 3	+25°48'	"	"	"	-2.3	18 51	20 01	54
14 144	HD 12426	01 ^h 56. ^m 7	+29°17'	"	"	"	-2.3	20 07	(159)	56
	Focus test									
Sat Dec 27-47 - a few breaks early in evening. Clearing about 2350 but clouds moving in again at 0020.										

224

FOCUS 12.225

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
1945	0 ^w 58	+28°07'	1+	8.40 MO 1-1-1	AG 25 considerable haze fine
2001	1 ^w 04	+26°03'	2	8.97 MO 1-1-1	AG 25 " " good
215	1 ^w 56	+29°31'	1	8.98 G5 1-1-1	AG 25 21:00 - clouds (thin) sky continuously thickens until 22:00 - subst. no light on slit. fine
	OTB			6-4	4 PH LOADED
					five plates in one of black papers in opened box of plates in spotting room.
					High cirrus from SW 2300-0000 - HAZE clearing considerably 1000 - thickening 0300 then clearing W. Watch mounted 1630

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS										
03	0 06 E	25 17	0	7.63 G5	1-1-1 AG.25 ^{Haze} Strong wind image ^{weak} unsteady Sky clouding over then starting to snow. Thick haze 2300-0030, clearing 0100-then clouds clearing 0230-opened, but more clouds. - variable cloudiness. W.										
					<table> <tr> <td></td> <td>MC</td> <td>SC</td> <td>HTU</td> <td>STW</td> </tr> <tr> <td>Dec 29</td> <td>+21.7</td> <td>-41.5</td> <td>+07.7</td> <td>+0.2</td> </tr> </table>		MC	SC	HTU	STW	Dec 29	+21.7	-41.5	+07.7	+0.2
	MC	SC	HTU	STW											
Dec 29	+21.7	-41.5	+07.7	+0.2											

227

Date Monday, December 29-30, 1947 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
14146	HD 220788 <i>Sp. 100</i>	23 17.5	+25 22	I-2	E 103a0	008	+12.0	17 30	17 35 18 35	

1947 Wed. December 31 - Fri. 1, 1948

N

Overcast.

1948 Fri. January 2-3. Clearing 10 30? Stars 11 00 - 12 30, but a little too hazy to open. It thickened and became overcast for rest of morning. W.

229

Date ¹⁹⁴⁸ Jan. 7-8, Wed. 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
14147	^{Z And.} HD 221650	23 ^h 28. ^m 9	+48° 16'	I-12"	E103a-0	1008	-2° 0	18 ^h 10 ^m	21 ^h 05 ^m	2
14148	HD 25461	03 ^h 57. ^m 6	+28° 56'	"	"	"	-2° 2	21 ^h 15 ^m	22 ^h 15 ^m	3
14149	HD 38142	05 ^h 38. ^m 5	+24° 54'	"	"	"	"	22 ^h 53 ^m	23 ^h 53 ^m	4
14150	HD 45640	06 ^h 27. ^m 2	+20° 46'	"	"	"	"	00 ^h 15 ^m	01 ^h 07 ^m	
	<i>Focus Test</i>									

231

Date *Fri Jan 9-10, 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 Angl End
14151	H.D. 86131	09 51.5	29 02	I-12	103e0	.008	-3.2	03 04	05 04	
14152	H.D. 105898	12 06.2	25 19	"	"	"	-3.3	05 09	06 49	
<i>Focus shift</i>										
<i>Sat Jan 10</i>										
<i>Changed to 25" camera</i>										
14152 F1	Focus Test			I-25	103e0	.008	-8.0	Focus	15.1	(15.323) ✓
14152 F2	" "			"	"	"	(Setting -8.7	.315 .280 .350	3 5 8	Holder 1
F3	" "			"	"	"	-8.0	(.26 2 .32 4 .38 6 .44 8)		Holder 2

INTERMITTENT CLEARING + CLOUDING WITH SNOW Focus 12.925
 CLEARING AROUND D100 WITH STRONG COLD NORTH WIND
 DOME TEMP AT OPENING +20°F
 CLOSING +05°F

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
	2.08W	28 47	VERY POOR	7.98 Kc	1-1-1 A.G. 25
	1.39W	25 02	"	7.94 G5	1-1-1 A.G. 25 HAVE AT END OF EXP.
		O.T.B			$\frac{c}{f}$
					HEAT ON CLOCK 7 G.
					4 P.M. LOADED 1 BOX PLATES NEEDED
(15.323) ✓ 15.1	✓ Tilt 23.15	O.T.B, T.		10/7	Focus not good; centered to violet.
3 5 8	" "	" "		10/7	attempt to stabilize focus: Dr Heenan's settings OK Result - all to violet (plate develop, emulsion underexposed -
	" "	" "		"	This suggests that both F ₁ + F ₂ exposed through the glass
					Setting 4 right on; This confirms that plates F ₁ + F ₂ were exposed thru glass + tabul. values for focus are OK.

233

Date Sat Jan 10-11, 1948 Hal (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
14153	^{1725 197} HD 218393	23 02.6	49 40	I-25	E103a.0	008	-6.8°C	18 42	19 22	3
14154	8862	01 22.3	+43 32	"	"	"	-6.8	19 28	20 04	4
14155	⁸⁰⁰¹ HD 37468	05 31.7	-2 15	"	"	"		20 15	20 19	1
								20 21	20 25	
								20 27	20 31	
14156	^{1725 197} HD 41574	06 27.0	-4 42	"	"	"		20 41	20 51	2
							-6.9	21 37	21 57	

Telescope very badly out of focus and focusing not working. Finally fixed with belt dressing.

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
19 22 2		+49 55	1	G-8 Avc. 3,33	
20 0	W 1 40	+43 46	1	G-54 B ₉ 3,33	len.
20 19			0	354 B ₀ 10	Set 1
20 35			0	10	" 6
20 3	E 201		0	10	" 9
20 10	E 254	-4 45	0	4.87 B ₃ 10	Set 1 clouds.
20 47	S 127			10	Set 6 clouds coming 4 g up then cloudy except for holes. closed 23 10 very windy.
					Clear in arrival some clouds in west. Clouding over around 0130-0200. Thick rest of night. break with clearing around sunrise W.


235

Date Sun. Jan 11-12, YU -

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
14157	50 Cass	2 ^h 43 ^m .1	+68° 41'	I-25	E103 _{a-p}	0.08	-3.3	19 ^h 45 ^m	20 ^h 45 ^m , 3	
14158	HST 27483	14 ^h 15 ^m .2	+13° 38'	"	"	"	"	21 ^h 10 ^m		
				Mon Jan 12	14d					
Changed to				I-12.	Set focus	12.925				
					Tilt	20.32				
14159	Focus Test				O.T.B.					

15.380
V.R. 23.7

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
21 ^h 3 ^m	10 ^m W	+68° 46'	1	(6.4) F ₂	3-3-3 Cloudy until 19 ^h 30 ^m , but still very hazy. 6 ^m star appear as 9 ^m at the <div style="text-align: right; margin-right: 20px;">  </div> Exp. not sufficient. Clouds up again 20 ^h 15 ^m , give up guiding telescope.
		+13° 42'	1	6.56, F ₄	3- S.L. Binary Exposure, as Spectrograph - too close to pair, partially clear at 21 ^h 05 ^m * gone 21 ^h 20 ^m .
				6.4	Setting 1 Focus 12.975
				6.4	5 Focus 12.875
				6.4	9 Focus 12.925

CLOUDY @ SUNSET, BEGINNING TO CLEAR ~ 2000
 POOR TRANSPARENCY

FOCUS 12.927

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Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
				8.56 KO 1-	AG 25
					2130 - Circle
					Jan. 14
				MC +38.6	SC -1 03.9
					MTW -20.2
					STW ^m -0.1

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oknow

Date Wed. Jan 14-15, 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
14157	^{2 And} HD 221650	23 ^h 28. ^m 8	+48° 16'	I-12"	E1030-0	.008	-10.0	18 ^h 15 ^m	21 ^h 15 ^m , 2	
14158	HD 30945	4 ^h 45. ^m 8	+26° 37'	"	"	"	-10.3	21 ^h 33 ^m	22 ^h 43 ^m	
14159	^{WY Gem.} HD 42474	6 ^h 8. ^m 8	+27° 13'	"	"	"	"	22 ^h 50 ^m	01 14	
14160	HD 76752	08 53.0	35 48	"	"	"	-10.2	01 41	02 07	
14161	HD 80004	10 18.2	36 04	"	"	"	-10.1	03 13	03 21	
14162	HD 93242	10 42.7	24 58	"	"	"	-10.2	03 36	03 46	
14163	HD 15329	12 11.6	25 17	"	"	"	-10.2	05 51	05 59	
	Star List									
Fri Jan 16-17 Hd. Mostly cloudy, mirror heavily frosted. Heater on it 1800 - 2200. No results.										

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Dome Temp. -2.0 F.

Could not find Plate Holder No. 3.

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
21 00	7 11 W	+48° 31'	0	9.4) 0-p 1-1-1	Can not determine focus (probably due to extremely poor seeing).
22 00	7 18 W	+26° 41'	0	8.47 Kc 1-1-1	AG 25
00 00	7 12 W	+23° 12'	0	8.61 M3c 1-1-1	VAR. plate holder not found
01 00	7 18 W	25 37	0	7.79 G5 1-1-1	AG 25 F.L. BATTERIES CHARGED
02 00	7 27 W	25 49	0	7.63 Kc 1-1-1	RETRIEVED PH. #3 FROM DARK ROOM 1 work
03 00	7 29 W	25 52	0	8.78 G5 1-1-1	AG 25 1 work
04 00	7 49 W	28 01	0	8.47 Kc 1-1-1	AG 25 PLATE
		D.T.B.		5/4	
					H.W.C. + S.
					2 P.M. LOADED PLATES NEEDED
					Dome Temp Changing -2 F.

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Date Sat, Jan 17-18, 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 Angl End
14164	HD 8300	01 ^h 17 ^m .2	+26°03'	T-12	E103 ₂ O	SET 003	-6.6	1755	1855	03
14165	HD 14949	02 ^h 13 ^m .5	+27°13'	"	"	"	-6.6	1904	2024	130
14166	HD 24365	03 ^h 47 ^m .5	+47°30'	"	"	"	-6.6	2031	2155	
14167	HD 32363	05 ^h 01 ^m .8	+25°12'	"	"	"	-6.7	2202	2308	30
14168	HD 46532	06 ^h 28 ^m .y	+45°00'	"	"	"	-6.9	2316	3055	44
14169	" 67709	08 04.2	27 23	"	"	"	-7.0	00 28	02 02	40
14170	" 83017	09 34.7	25 16	"	"	"	-6.9	02 08	03 42	34
14170F	{ " 96234	11 00.7	24 45					03 48		
	{ Films lost					OT13				

MINOR SPOTTED N. ICE
CRISTAS

FOCUS @ 12.927

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
1400	1 ^h 03	+16°13'	0	8.25 K0 1-1-1	AG25 fine
1404	1 ^h 30	+27°25'	0	8.72 K0 1-1-1	AG25 v good
1405	1 ^h 33	+28°00'	0	8.74 G5 1-1-1	AG25 fine
1408	1 ^h 32	+26°15'	0	8.50 G5 1-1-1	AG25 fine
1412	1 ^h 38 W	24 58	0	8.61 G5 1-1-1	AG25 good
1413	1 ^h 24 W	27 00	0	8.86 K0 1-1-1	AG 25 1 weak
1414	1 ^h 33 W	25 16	0	8.86 G0 1-1-1	AG.25 weak
				8.91 G5	AG.25 Clouding over night
				6/4	after start ✓

243

Date Sun Jan 18-19, 1948 Hd-11 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
14171	HD 9224	01 25.7	28 54	I-12	E103aD	008	-7.0	18 17	18 55	2
14172	HD 24301	03 46.9	26 22	"	"	"	-7.5	20 25	21 43 ⁴¹	1
14173	HD 32387	04 57.8	24 52	"	"	"	-7.8	21 46	22 36	2
14174	HD 41708	06 01.7	27 27	"	"	"	-7.6	22 40	00 22	3
14175	67513	01 13.7	26 21	"	"	"	-7.6	00 57	02 57	2
14176	87680	10 01.3	24 44	"	"	"	-7.8	02 58	04 32	1
14177	105771	12 05.4	21 37	"	"	"	-7.8	04 05	05 40	1
<i>James East</i>										

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
18 55	W 0 58	29 10	0	7.74 G0	7-1-1 Clouds - Thick
21 48	W 1 25	26 29	0	8.61 G0	1-1-1
22 36	W 1 07	24 55	0	8.26 G5 $\frac{1}{2}$	
	1 50 W	27 25	0	8.58 G0	1,1-1 star seems faint.
	1 54 W	26 47	0	8.54 K2	1-1-1 LIGHT MOON
	1 54 W	29 39	C	8.21 G5	1-1-1
	1 54 W	29 30	0	8.17 S	1-1-1 LIGHT MOON
	R.T.D.				$\frac{1}{4}$

Jan 20-21 Cloudy @ sunset, gradually
becoming overcast by abt 2000. Wm.

Z. P.H. 10 1 4 R

25.125 PLATE 110000

Jan 19 -1.4 -1.09.2

HTW 570
+19.2 +0.7

Jan 17-20

→

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
4:50	15 ^m 50 ^s	48° 21'	0	(9.5) 6 1/2 1-1	<p>Thin clouds. 18^h 30^m - 40^m; 19^h 00^m cloudy.</p> <p>4 Photo Holders loaded</p> <p>1 Plate only in Box</p> <p>Winn's heating put on.</p>
					<p>Clear on arrival, seemed to be a very light haze; unlit; some clouds; 0100-0300. Clearing; haze thickening. W.</p>

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Date *Thurs. Jan 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.	Hour Angle End
14179	H.D. 14918	02 19.3	25 02	I-12 $\frac{1}{2}$	I103a-0	⁵ 0.28	-8.8	19 00	21 10	2 10
14180	" 40460	05 53.8	27 17	"	"	"	-8.9	21 21	22 43	2 33
14181	" 48640	06 39.3	24 46	"	"	"	-8.9	22 48	00 26	2 33
14182	71093	08 20.4	28 14	"	"	"	-9.0	00 30	01 26	1 02
14183	83807	09 33.8	28 25	"	"	"	-9.0	01 41	03 39	1 10
14184	102142	11 40.3	27 46	"	"	"	-9.1	03 43	05 03	1 21
14185	126225	14 06.2	26 31	"	"	"	-9.2	06 05	07 09	1 04
<i>Transit</i>										

Delayed start because of clouds at sunset

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
22:47	0 36 W	25 16	0	8.37 G0	1-1-1 A.G. 25 ⁻ Haze, seeing bad!
22:47	0 35 W	27 16	0	8.02 K0	1-1-1 " "
22:47	1 33 W	24 43	0	8.16 K2	1-1-1 " "
22:47	1 02 W	28 03	0	7.05 K2	1-1-1 " "
22:47	1 50 W	28 12	0	8.32 G0	1-1-1 " " seeing some worse
22:47	2 15 W	27 29	0	7.72 G5	1-1-1 " "
22:47	0 31 W	26 17	0	7.51 K0	1-1-1 " "
		G.T.B.			6/4
					1 P. H. LOADED + 8 PLATES
					center to use.
					H. ON M., CLOCK + G.
					DOME TEMP. @ 0000 -4° F.
					" " @ CLOSING -12° F.
					LOTS OF BOILING FROM DOME SHRINKING
					Jan. 23
					MC +41.4 SC -74.0 MTW -22.8 STW -0.7
					adv. 1 mi

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Date Friday, Jan 23, 1958 W-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
14186	HD 13631	02 ^h 08 ^m .4	+25°24'	T-12	F1032D	501 203	-15.0	1814	1919	
14187	HD 10155	02 ^h 09 ^m .5	+27°13'	"	"	"	-15.0	1951	2051	
14188	HD 31857	04 ^h 54 ^m .2	+25°00'	"	"	"	-15.2	2048	2200	
14189	HD 99316	05 ^h 05 ^m .7	+25°27'	"	"	"	-15.2	2235		
14190	7424	08 41.1	28 32	"	"	"	-15.3	0047	0147	
14191	85422	09 44.5	25 26	"	"	"	-15.3	0152	0430	
14192	109627	11 01.0	25 07	"	"	"	-15.3	0435	0735	

Try focus - micrometer reading 12.900
 Set focus 12.900

250

1300 Dome Temp 41°F. Grease pretty thin

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
	0° 54	+26° 23'	0	8.14 G5	1-1-1 AG25 v. good
	" 29	+27° 23'	0	8.49 G0	1-1-1 " good
	" 25	+25° 04'	0	8.64 G5	1-1-1 " fine
	2 10 V	+22° 56'	0	8.61 K0	1-1-1 " change
	6 55 H	38 21	0	6.95 G1	1-1-1 " seeing improving 2 imp
	1 21	28 21	1	8.62 K2	1-1-1 " fine 2 imp 1/2 of way - good seeing
	1 05 V	25 22	0	8.54 K2	1-1-1 " fine thickening 1/2 way
		DTB		9/4	
					Fix N. C. + G.
					1 P.H. LINDO + 24 P
					Dome Temp - 31°F

1. Watch stopped; reset to 5 T only
2. generator seems unduly noisy,
3. no more fine salt.

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Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS																									
		+48° 31'	0	9.15 cap 1-	18 ^h 30 ^m clouds to 19 ^h 50 ^m																									
	25 ^m W	+08° 41'	0	var. F ₂	1-1-1 Thin clouds																									
	33 ^m W	+28° 50'	1	8.02 G ₂	1-1-1 AG 28°																									
	36 ^m W	+8° 30'	1	var. G ₂	1-1-1 Thin clouds 23 ^h 40 ^m - 27 ^h 40 ^m																									
	40 ^m W	+28° 50'	1	8.02 G ₂	1-1-1 AG 28° maybe too near the moon for work till 1 a.m.																									
					L greased generator.																									
					<table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th></th> <th>MC</th> <th>SC</th> <th>MTW</th> <th>STW</th> </tr> <tr> <th></th> <th></th> <th></th> <th>^S</th> <th>^m</th> </tr> </thead> <tbody> <tr> <td>Jan. 26</td> <td>+51.0</td> <td>- 77.0</td> <td>- 13.0</td> <td>+0.0</td> </tr> <tr> <td></td> <td>Added</td> <td>Reduced</td> <td></td> <td>adv 1 min.</td> </tr> <tr> <td></td> <td>0.5 wt.</td> <td>0.4 wt.</td> <td></td> <td></td> </tr> </tbody> </table>		MC	SC	MTW	STW				^S	^m	Jan. 26	+51.0	- 77.0	- 13.0	+0.0		Added	Reduced		adv 1 min.		0.5 wt.	0.4 wt.		
	MC	SC	MTW	STW																										
			^S	^m																										
Jan. 26	+51.0	- 77.0	- 13.0	+0.0																										
	Added	Reduced		adv 1 min.																										
	0.5 wt.	0.4 wt.																												

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Date Tues Jan 27-28/48 Hd-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
14197	HD 13836	02 09.7	26 54	I-12	E10320	008	-9.0	18 41	20 01.4	
14198	HD 26081	09 02	25 38	"	"	"	-9.0	20 07	21 17	
14199	AS 2606	07 52	26 13	"	"	"	-9.0	21 35	22 35	
14200	HD 42497	06 074	25 02	"	"	"	-9.0	22 39	23 49	
14201	HD 51314	07 51	25 58	"	"	"	-9.0	23 52		
14201	HD 26025	10 254	26 13	"	"	"	-9.0	24 09	05 20	
	HD 26025					07				

something wrong with mirror for
 usual reference. Had to find stars
 without it. Doesn't come all the
 way home.

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
W 155	27 05	0	8.61 G5	1,1,1	fine
W 118	25 45	0	8.56 K ₀	1,1,1	fine
W 123	26 13	0	8.30 M ₀	1,1,1	Some light clouds 1 weak
W 147	25 01	0	8.58 G5	1,1,1	good
			8.12 G5		Observed scintillation of α 2.58 to 0.007 (estimated) capella cloudless over site gone by 2020
W 130 W	25 08	0	8.33 K ₀	1,1,1	Sky dark by 22.58 - 0.00 fine 6/4 thick fog at 0420

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Date Wed Jan 29-30, 1948 Hd - 1 Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angl End
14202	HD19485	03 02.8	25 13	I-12	E103aD	008	-10.2	19 29	20 59 *	7 2 0
14203	" 84440	09 40.2	27 32	"	"	"	-10.1	01 14	02 54	1 14
14204	" 97476	11 07.9	27 43	"	"	"	-10.1	02 58	03 13	1 17
14205	{ " 119748	13 40.0	29 29	"	"	"	-10.1	04 54	06 54	1 20
	{ <u>From Sect</u>					<u>O.T.E.</u>				

clearing slowly at sunset.


Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
2059*	W 2 08	25 25	0	8.70 G5	1-1-1 Clouds 2010* nothing thereafter very weak Breaking again shortly after midnight waited a while before open
	1 27 W	27 17	0	8.42 Ko	1-1-1 AG 25 l weak
	1 53 W	27 27	0	8.63 Ke	1-1-1 " " l weak
	1 23 W	29 13	0	8.81 G5	1-1-1 " " l weak
				G/4	center slightly to ^{red} west

00^m 00^m Down Temp = -3.0 F.

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS															
23	00 ^m W	+48° 3'	0	(9.5) Dcp	1-1-1															
23	18 ^m W	+26° 10'	0	8.91 G ₅	1-1-1 AG 25															
23	44 ^m W	-9° 40'	0	var. G ₅	1-1-1															
		-27° 30'	0	8.04 K0	1- too weak															
	O.T.B.				6/4															
					3 PH L.O. Box PLATES NEEDED															
					H. ON M.															
					Feb 1 cloudy stopped observing in R.A. cloud spotted during cloud but did not record with the telescope. Feb 2 cloudy															
					<table border="0"> <tr> <td></td> <td>MC</td> <td>SC</td> <td>MTW</td> <td>STW</td> </tr> <tr> <td>Feb. 2</td> <td>+56.3</td> <td>-81.5</td> <td>+15.8</td> <td>-0.0</td> </tr> <tr> <td></td> <td></td> <td></td> <td>next</td> <td></td> </tr> </table>		MC	SC	MTW	STW	Feb. 2	+56.3	-81.5	+15.8	-0.0				next	
	MC	SC	MTW	STW																
Feb. 2	+56.3	-81.5	+15.8	-0.0																
			next																	
					<p>Sat, Jan 31 / Feb 1: Passing clouds; no obs'g, since telescope immovable. Wm.</p> <p>Tues Feb 3/A: Cloudy becoming overcast at 2200 Wm.</p>															

No wonder could not find the
star twice before. No R.A. 1950
position is off by 2^m. Should
be 56^m6 instead of 58^m6 as listed.
Same is true also for HD 31782,
for which 2 plates already obtained
may belong to a nearby star.

ANY
RECORD
TIONS
SILVER?

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
19	40° W	+48° 31'	0	7.28 G₅ ^{F₅}	1/2-1-1/2 S
20	40° W	+28° 36'	0	7.28 G₅ ^{F₅}	1-1-1 AG 25 
21	00° W	+29° 19'	0	7.28 K ₂	1-1-1 AG 25
22	20° W	-9° 44'	0	7.28 G ₁	1-1-1
23	00° W	+28° 16'	0	8.12 G ₂	1-1-1 AG 25
24	25 56	28 29	0	8.12 G ₂	1-1-1 AG 25
25	1 50	35 01	0	8.05 K ₂	1-1-1
26	1 38	34 57	0-1	8.05 K ₂	1-1-1
		D.T.B.			1/4
					center slightly to the
					3 P.H. 6.00
					H. 0.25 A-

261

Date *Thurs. Feb 5 1948 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 Ang End
14218	H.D.	47836	06 35.5	27 11	I-12 $\frac{1}{2}$	E 103 α 0.008 ^{set}	-7.5	22 05	23 45	2
14219	"	75216	08 45.6	29 43	"	"	-7.5	23 51	02 53	3
14220		93391	10 41.9	27 26	"	"	-7.4	02 57	03 25	4
			<i>Focus Test</i>							

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
					Broken clouds, haze, early in evening clearing 21.00 good at 21.30
23.45	1 50W	27 08	0	8.22 K ₀	1-1-1 ✓ AG 25
23.50	1 30W	29 38	0	8.08 K ₀	1-1-1 " Seeing improving
* G ₁ 23.55	1 35W	27 10	0-1	8.37 K ₅	1-1-1 HAZE - THICKENING good
		D.T.B.			6/4 focus with lens
					H. P. N. M.
					4 P.H. loaded - Box PAPER NEEDED





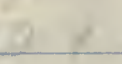
Try focus - micrometer 12.890
 SET FOCUS 12.890

264

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
2:50	2 13W	25 28	0	7.93 Ko	1-1-1	HAZE 0.420
		O.T.B.			5/4	
					H. 2 x N	
					3 P.H. WOODEN	Box PLATES
						NEED

Watch stopped. Reset to 8.7 (approx.)

266

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS														
10 ^h 07 ^m N	+68° 40'	0	Var. F ₂	1-1-1		S														
10 ^h 50 ^m N	+26° 55'	0	8.4 K ₀	1-1-1	AG 25-															
10 ^h 50 ^m N	+26° 55'	0	8.4 K ₀	1-1-1	AG 25-															
10 ^h 55 ^m N	-9° 40'	0	Var. G ₁	2-1-1																
10 ^h 55 ^m N	+27° 34'	0	8.4 K ₀	1-1-1	AG 25-															
10 ^h 55 ^m N	26 40	0	8.4 K ₀	1-1-1	AG 25-															
10 ^h 55 ^m N	25 45	0	8.4 K ₀	1-1-1	AG 25-															
	G.T.B.			5/4																
<p>H on N. </p> <p>4 P.M. </p>																				
<table border="0"> <tr> <td></td> <td>MC</td> <td>SC</td> <td>NTW</td> <td>STW</td> <td colspan="2"></td> </tr> <tr> <td>Feb. 9</td> <td>+56.6</td> <td>-77.5</td> <td>-26.0</td> <td>+0.2</td> <td colspan="2"></td> </tr> </table>								MC	SC	NTW	STW			Feb. 9	+56.6	-77.5	-26.0	+0.2		
	MC	SC	NTW	STW																
Feb. 9	+56.6	-77.5	-26.0	+0.2																

267

Date *Mon. Feb 9-10, L-51.*

Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Ang. End
14229	H.D. 22403	03 31.2	25 40	T-12 $\frac{1}{2}$	F-103a-0	5. x 008	-9.4	18 30	20 00	
14230	85 <i>Arigae</i>	04 56.5	40 56	"	"	"	-9.4	20 05	20 08	
		"	"	"	"	"		20 09	20 15	
		"	"	"	"	"	"	20 16	20 30	
14231	H.D. 38261	05 39.4	25 04	"	"	"	-9.4	20 36	22 20	
14232	" 56418	07 11.8	26 31	"	"	"	-9.4	22 25	00 09	
14233	" 81058	09 18.3	26 20	"	"	"	-9.5	00 12	02 08	
14234	" 95155	11 12.4	25 37	"	"	"	-9.5	02 12	04 12	
14235	" 121319	13 49.7	25 50	"	"	"	-9.5	04 46	06 30	
		<i>Focus Test</i>								

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS	
24 00	1 24 W	25 49	0	7.92 G ₀	1-1-1	A.G. 25 Seeing very poor! good
26 57		40 59	0	4.9-5.6	3	Setting 1
29 5		"	0	K ₀ B ₁	1 $\frac{1}{2}$ -1 $\frac{1}{2}$	" 5
30 7	1 29 W	"	0		1-1-1	" 9
36 2	1 31 W	25 06	0	8.58 K ₀	1-1-1	A.G. 25 Seeing better good
40 7	1 33 W	25 25	0	8.63 K ₀	1-1-1	" "
45 0	1 46 W	26 04	0	8.02 K ₀	1-1-1	" "
49 0	2 27 W	25 19	0	8.56 K ₀	1-1-1	" "
52 0	1 58 W	28 55	0	8.14 K ₀	1-1-1	" "
		G.T.B.			$\frac{1}{4}$	
						H. on M.
						1 P.M. LEAVES 1.13

clearing about 1940.

270

~~Cent find P.H. #4.~~

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
21 51	V 1 46	24 53	0	8.26 G5	1, 1, 1
21 52			0	4.9 Ko B ₁	3 set 1
21 59		41 00			3 ut 5
22 12	W 2 15				1 1/2 - 1 1/2
23 27	W 1 16	26 29	0	8.51 Ko	1, 1, 1
2 45 W	24 59		0	8.35 Ko	1, 1, 1 A.G. 25 HAZE - INCREASING
2 30 W	29 13		0	7.79 Ko	1-1-1
	U.T.B.				6/4
					Heavy M
					A.P.H. ...
					Thurs, Feb 12 '48. Thin cirrus, > 1 ⁰⁰⁰ ft description, Wm.
					Sat Feb 14 '48 high wind until ~ 0000; then clouds Wm.

271

Date ~~Wed~~ Sun Feb 15-16, 1948 Hd - 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 Angl End
14241	ζ Aurigae	04 55.5	40 56	I-12	E103a0	008		21 22	21 26	1
								21 27	21 33	
							-4.6	21 34	21 46	W 2 10
14242	HD 52071	06 44.7	27 18	"	"	"	-4.6	21 50	23 14	W 1 13

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS										
21 26			1	4.9 K ₀ B	3 set 1										
21 33			1		3 " 5										
21 46	W 2 10	41 00	1		3 " 9										
23 4	W 1 39	27 13	0	8.19 K ₂	1-1-1 Gradually thickening										
					<table border="0"> <tr> <td></td> <td>MC</td> <td>SC</td> <td>MTW</td> <td>STW</td> </tr> <tr> <td>Feb. 16</td> <td>+59.6</td> <td>-72.6</td> <td>+17.0</td> <td>+0.3</td> </tr> </table>		MC	SC	MTW	STW	Feb. 16	+59.6	-72.6	+17.0	+0.3
	MC	SC	MTW	STW											
Feb. 16	+59.6	-72.6	+17.0	+0.3											
					Tues. Feb 17-18 Overcast to cloudy until mt. - W.										
					Tues. Feb. 17-18 - Arrived 02 10. Too windy to open + light haze. (Faint auroral arch.) W.										

273

Date Wed Feb 18-19, Yu-

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
14243	5 Aur.	04 ^h 55 ^m	+40° 56'	I-12"	E103a-0	.008	+3.0	18 ^h 31 ^m	18 ^h 35 ^m , 3	
								18 ^h 36 ^m	18 ^h 44 ^m	
								18 ^h 45 ^m	19 ^h 01 ^m	
14244	HD 30111	04 ^h 39 ^m	+28° 30'	"	"	"	"	19 ^h 07 ^m	20 ^h 45 ^m , 4	
14245	⁴ YGem HD 42471	06 ^h 55 ^m	+23° 14'	"	"	"	+2.5	20 ^h 30 ^m	22 ^h 30 ^m	
14246	HD 50457	06^h 11^m	+27° 45'					22^h 35^m		
14245 F			Focus Test							

Ending Time
E.S.T.Hour Angle
End

Declination

Seeing

Ptg. Mag.

REMARKS

2^h 35^m

0

4.7 C₀₃, 3 Set 13^h 4^m

"

3 " 5

4^h 1^m5^h 25^m E

"

3 " 9

20^h 5^m37^h +28° 32'

"

8.26 G₅ 1-1-1 AG 25

AG 25

Thin haze ^{to 20^h 20^m} 19^h 40^m clouds21^h 2^m51^h +23° 12'

"

Van. Map 1-1-1

" "

+27° 34'

"

5.00 C₀₃ 1-1

AG 25

22^h 15^m haze thick. * gone.

OTC

 $\frac{3}{10}$

Close up

2 Pl. Holders loaded

Fresh box of plates in Spotting room

Feb 20

HTW
+08^mSTW
+0^m

275

Date Friday Feb 20-21 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 Angl End
14215	HD 29763	04 ^h 36 ^m .2	+23 ^o 46'	T-1-	FN30-0	SET 0.05	-	17 ^h 24 ^m 32	19 ^m	
14217	HD 38750	05 ^h 12 ^m .3	+25 ^o 36'	"	"	"		19 53		
Sat Feb 21 Ad										
Changed to 25" Found 12" Focus 12.863 Tilt 20.28										
↓										
perhaps moved: last record (7166) - See also Feb 20-21										
was 12.890										
Set 12.5" Focus 15.350 Tilt 23.15										

Touch @ 12.30 ✓

Overcast @ sunrise,
becoming clear

276

Ending Time
E.S.T.

Hour Angle
End

Declination

Seeing

Ptg. Mag.

no. of plates

REMARKS

0

9.21 B

$\frac{3}{35}$

Binary

9.51 K01-

G25

2.5 clouds

1.5 clouds

3:15

Focus set at 15.332

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
04 20	0 19W	58 45	0	6.36 A ₀	3-3-3 Binary
05 00	0 50W	03 57	0	6.56 A ₀	3-3-3 " light clouds
				10-7	sky clouding over again
					1 P.H. loaded.
					5 plates on dome

Focus Set 15.355

V.R. 23.70

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
	2 ^m W	+22° 50'	0	4.21 B ₁	$\frac{6}{4-4} = 3$ Binary
	0 ^h 30 ^m E	-2° 38'	"	3.54 B ₀	$\frac{10-50}{10-10} = 1$ "
	0 ^h 38 ^m E	-4° 45'	"	4.81 B ₃	5-5 "
	0 ^h 10 ^m W	-2° 38'	"	3.54 B ₀	$\frac{10-50}{10-10} = 1$ "
	0 ^h 50 ^m E	-4° 44'	"	4.81 B ₃	5-5 "
	0 ^h 50 ^m W	-2° 38'	"	3.54 B ₀	$\frac{10-50}{10-10} = 1$ "
	0 ^h 30 ^m W	-4° 44'	"	4.81 B ₃	5-5 "
23:4	0 ^h 28 ^m W	-23° 12'	1	Var. Mag	3-3-3 23 ^h 15 ^m Thin clouds
	0 ^h 35 ^m W	+27° 28'	"	5.79 A ₀	3-3-3 Primary
	0 ^h 42 ^m W	78 52	0-1	7.45 K ₀	3-3-3 "
	0 ^h 43 ^m W	34 22	0-1	5.90 A ₀	3-3-3 (BRASSLEY SPIN. TAK BRIGHTER)
	0 ^h 54 ^m	38 45	0-1	5.36 A ₀	3-3-3
	1 ^h 1 ^m W	30 43	0-1	7.80 G ₅	3-3-3 AC 25
		0 7 9			$\frac{9}{14}$
					1/4 P.H. Lenses = 2 Bores Photo taken 1-2 M.

281

Date Monday Jul 23-24/48 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 Ang End
14263	♂ Ori	05 337	-2 39	I-25	E 103-0	Set 203	-05.0	18 30	18 59	1
	"	"	"	"	"	"		18 38	19 00	
	"	"	"	"	"	"		19 01	19 25	3
14264	10 Orion	06 23.0	-4 42	"	"	"	-05.0	19 15	19 27	2
14265	♂ Ori	05 337	-2 39	"	"	"	-05.0	19 40	19 49	3
	"	"	"	"	"	"		19 45	19 59	
	"	"	"	"	"	"		19 50	19 54	12
14266	10 Orion	06 23.0	-4 42	"	"	"	-05.0	20 00	20 12	1
14267	♂ Ori	05 337	-2 39	"	"	"	-05.0	20 13	20 22	1
	"	"	"	"	"	"		20 25	20 27	
	"	"	"	"	"	"		20 28	20 32	12
14268	10 Orion	06 23.0	-4 42	"	"	"	-05.0	20 38	20 52	12
14269	HD 37270	08 29.7	44 06	"	"	"	-05.0	21 22	22 32	3
14270	" 76 ^o 16	08 49.7	58 36	"	"	"	-05.0	22 39	23 45	4
14271	" 100549	11 25.7	60 15	"	"	"	-05.0	23 53	03 31	1
	<i>Flames - East</i>									

NEXT PAGE

Feb. 23 MC SC
 +1^m01.6 -1^m08.9

NTW STW
 +23.8 +0.5

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Four set at 15:36:13

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
16:10		-02 38	0	3.54 B ₀	4 $\frac{1}{2}$ - 4 $\frac{1}{2}$	Setting 1
16:15		"	"	"	4 $\frac{1}{2}$ - 4 $\frac{1}{2}$	" 5 Haze
16:50	037E	"	"	"	4 $\frac{1}{2}$ - 4 $\frac{1}{2}$	" 9 "
19:07	104E	-04 45	0.1	4.81 B ₃	3-3-3	scattered of mura, about 5" concentration by L, HSH, JSH, FSH.
19:04		-02 38	0.1	3.54 B ₀	4 $\frac{1}{2}$ - 4 $\frac{1}{2}$	Setting 1
19:10		"	"	"	4 $\frac{1}{2}$ - 4 $\frac{1}{2}$	" 1 5
19:12	012W	"	"	"	4 $\frac{1}{2}$ - 4 $\frac{1}{2}$	" 9
19:15	015E	-04 45	0.1	4.81 B ₃	3-3-3	19:39:04 dry yellow star.
19:20		-02 38	0.1	3.54 B ₀	4 $\frac{1}{2}$ - 4 $\frac{1}{2}$	Setting 1
19:25		"	"	"	4 $\frac{1}{2}$ - 4 $\frac{1}{2}$	" 5
19:30	050W	"	"	"	4 $\frac{1}{2}$ - 4 $\frac{1}{2}$	" 9
19:35	051W	-04 45	0	4.81 B ₃	3-3-3	Haze
19:40	050W	49 06	0.1	7.51 R ₀	3-3-3	Binary
19:45	046W	58 23	0.1	6.96 A ₀₅	3-3-3	Binary
19:50	058W	59 57	0.1	8.06 A ₂	3-3-3	Binary
		0 T.B.			10/9	Handwritten notes

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
7:30 E 02:51	2 11 W	03 58	0 - 1	6.56 A0	3-3-3 BINARY HAZE - THICKENING
		0 5 13			10/7
					2 P.H. LOADED BOX PLATES NEEDED H. ON M.
					Tues, Feb 24-5, 1948. Clouds @ sunset; thin overcast filling in steadily. Wm.

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Date Wed Feb 25-26, 1949 Hd. 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 Ang End
14273	♄ Ori	05 33.7	-2 39	L-25	E103-20	00.8	+3.3	18 49	18 53	3
	'							18 54	18 58	
								18 59	19 03	
14274.	10 Mon	06 23.0	-4 42	"	"	"		19 09	19 21	4
14 275	♄ Tau.	09 36.2	+22 46	"	"	"		19 32	19 36	1
							+3.4	19 37	19 45	
								19 45	20 01	
14276	♄ Ori							20 08	20 12	2
								20 13	20 17	
								20 18	20 22	
14277	10 Mon	06 23.0	-4 42	"	"	"	+3.5	20 34	20 46	3
								20 46	20 56	
								20 58	21 10	
14278	HD 47270	06 32.7	44 06	"	"	"	+3.5	21 20	22 50	4
14279	HD 72208	08 26.5	40 09	"	"	"	+3.4	22 54	23 36	1
14280	HD 82191	09 25.4	27 50	"	"	"	+3.4	23 41	24 31	-

Set focus 15.467.

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Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
1953			0	3.54 B ₀	3 set 1
1958			0		3 set 6
1903	E 031	-2 39	0		3 set 9
1921	E 1 02	-4 45	0	4.81 B ₃	2-2
1936			0	4.21 B ₅	3 set 1
1945			0		2-2 " 5
20 01	W 1 24	+22 50	0		2-2 " 9
20 02			1	3.54 B ₀	3 set 1
20 17					3 " 6
20 22	W 048				3 " 9
20 46			1	4.81 B ₃	2-2 set 1
20 58			1		4-4 " 6
21 00	W 047	-4 45	1		4-4 " 9
22 5	W 2 16	+4 05	1	7.51 K ₀	3-3-3 Haze
22 08	W 1 00	+9 58	1	6.58 A ₀	3-3-3
22 10	W 06 W	+7 34	1	6.59 A ₀	3-3-3

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Date *Wed Feb 25-26, 1945 Hd. M.* Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Ang End
14281	100054F	11 25.7	60 15	I-25	E.10320	.008'	+3.4	00 40	* GONE 02 00	3 05
<i>Focus Test</i>										
Sat Feb 28 Hd.										
Changed to 12" Focus 12.890 Tilt 20.28.										
Sat Feb 28 Overcast - Wm										
Sun Feb 29 Hd.										
Clearing about 2100. Tried to open but (upper) shutter rails frozen after snow + ice storm on Saturday.										
Tues, Mar 2 Overcast & Snow, Wm										

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS										
01.0	0 35W	59.50	1	8.06 A2	3-3-3 CLOUDS NEXT HOLDERS #1 ON ARE LOADED WITH PLATES FROM BOX WITH A RED CROSS. 1ST PLATE OF BOX IN #1.										
		O.T.B.			10/7										
					4 P.H. LOADED + 9										
					H. ON M.										
28					<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 20%;"></td> <td style="width: 20%; text-align: center;">MC</td> <td style="width: 20%; text-align: center;">SC</td> <td style="width: 20%; text-align: center;">MTW</td> <td style="width: 20%; text-align: center;">STW</td> </tr> <tr> <td>Mar. 1</td> <td style="text-align: center;">+1^m04^o0</td> <td style="text-align: center;">-1^m06^o5</td> <td style="text-align: center;">+11.8</td> <td style="text-align: center;">+0.1</td> </tr> </table>		MC	SC	MTW	STW	Mar. 1	+1 ^m 04 ^o 0	-1 ^m 06 ^o 5	+11.8	+0.1
	MC	SC	MTW	STW											
Mar. 1	+1 ^m 04 ^o 0	-1 ^m 06 ^o 5	+11.8	+0.1											

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Date THURS, MARCH 4-5, 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 Ang End
14 232	HD 39249	05 ^h 50 ^m 5	+27°18'	I-12	E103a-0	^{SFT} 000	-8.7	19 21	20 31	"10
14 233	HD 52147	06 ^h 55 ^m 0	+29°22'	"	"	"	-9.0	20 39	21 49	"15
14 234	HD 72907	08 ^h 30 ^m 3	+29°03'	"	"	"	-9.0	21 56	23 06	"17
14 285	HD 85946	09 ^h 50 ^m 2	+27°19'	"	"	"	-9.1	23 24	01 04	"19
14286	" 100993	11 32.3	25 58	"	"	"	-9.1	01 10	03 00	"20
14287	" 122052	13 54.3	25 12	"	"	"	-9.1	03 06	04 10	"21
14288	" 132737	14 55.6	27 33	"	"	"	-9.1	04 15	06 11	"22
	Focus Test					O.T.B				

Focus @ 12.890

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Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
20 3	1 ^w 10	+27° 19'	0	8.61 G5 1-1-1	AG 25
21	1 ^w 25	+29° 16'	0	8.51 G5 1-1-1	AG 25
22	1 ^w 17	+28° 52'	0	8.63 K0 1-1-1	AG 25
23	1 45 W	27 06	0	8.51 K0 1-1-1	AG 25
24	2 00 W	25 41	0	8.49 G0 1-1-1	" "
25	1 48 W	24 56	0	7.95 G5 1-1-1	" "
26	1 48 W	27 22	0	8.61 K0 1-1-1	" "

6/4

Dome temperature at close -7°F,
spring where art thou?

Say! who in thunderation is
scraping all the aluminum off
the secondary!

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Date Friday, Mar. 5-6, 1948, 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 Ang End
14289	^{WY Gem} HD 42474	6 ^h 5 ^m 8	+23° 14'	I-12"	E103a-0	.008	-8.0	19 ^h 00 ^m	20 ^h 45 ^m , 3	13 ^m
14290	HD 63016	7 ^h 41 ^m 7	+28° 48'	"	"	"	"	20 ^h 55 ^m	21 ^h 55 ^m , 4	5 ^m
14291	HD 75668	8 ^h 46 ^m 2	+29° 14'	"	"	"	-8.1	22 ^h 30 ^m	23 ^h 50 ^m , 1	1 ^m
14292	HD 91366	10 ^h 27 ^m 8	+25° 38'	"	"	"	-8.2	23 ^h 55 ^m	01 45, 2	10 ^m
14293	HD 109552	12 30.5	29 23	"	"	"	-8.1	02 50	03 44	3 ^m
14294	128095	14 39.2	28 55	"	"	"	-8.1	03 50	06 10	4 ^m
	<i>Focus Chart</i>									

Mar. 5


MC
+1^m05^s.4

SC.
-1 04.7

MTW
-23.8

STW
-0.4

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Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
1 ^h 13 ^m W	+23° 12'	0	van M _{3ep}	1-1-1	
2 ^h 05 ^m W	+28° 46'	1	8.12 G ₅	1-1-1	AG 25 
2 ^h 35 ^m W	+29° 02'	1	8.75 K ₂	1-1-1	AG 25
1 ^h 55 ^m W	+25° 22'	0	8.40 K ₀	1-1-1	AG 25
05 ^m W	29 05	0-1	8.39 G ₀	1-1-1	" "
00 ^m W	28 42	0	8.72 G ₅	1-1-1	" "
	O.T.B.			5/4	funny
					H. on M.
					4 P.H. Loaded + 20

293

Date June 9-10/48 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 Ang End
14295	H.D. 39713	05 49.2	29 09	I-12 $\frac{1}{2}$	E-103a0	set 008	+1.1	19 07	20 37	1
14296	" 63495	07 44.1	28 59	"	"	"	+1.0	20 41	22 33	
14297	BD+27°1811 57577	09 42.1	+27 35 27 38	"	"	"	+1.0	22 39	01 07	3
14298	" 106184	12 08.0	29 11	"	"	"	+1.0	01 12	03 16	
14299	133460	14 59.5	26 25	"	"	"	+1.1	03 51	* GONE 04 31	
	<i>Focus Test</i>									

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
0 07	1 37 N	29 09	0.1	8.57 G5	1-1-1	A.G. 25
0 15	3 3 W	29 51	1	8.98 G5	1-1-1	" "
0 27	2 17 W	37 23	1	9.98 <u>K0</u>	1-1-1	" " haze
0 30	3 0 W	28 54	1.0	8.88 K5	1-1-1	" "
0 31	0 42 W	26 12	1.0	7.72 G0	1-1-1	" " haze; thickening
		O. T. B.			6/4	

Cloudy until 19^h 15^m

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
2 ^h 5 ^m	48 ^m	+23° 12'	0	var. M3ap	1-1-1 20 ^h 15 ^m thin clouds 20 ^h 45 ^m clear <i>too weak</i>
3:0	45 ^m	+24° 30'	1	8.75 K ₀	1-1-1 AG25 occasional thin haze <i>too weak</i>
		+25° 21'	1	Blue G ₀	1- AG25 thin clouds
					<i>fair OK</i>
					4 Plate Holder loaded

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Date Thursday, March 11-12, 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 Ang End
14302	HD 41456	06 ^h 00 ^m .2	+25°32'	Z-12	F1039 O	5E 003	-8.0°	19 05	20 25	
14303	HD 60235	07 ^h 22 ^m .4	+28°44'	"	"	"	-8.0°	20 33	21 53	
14304	HD 77586	03 ^h 53 ^m .4	+29°41'	"	"	"	-8.1°	22 00	23 30	
14305	HD 91164	10 ^h 26 ^m .4	+25°14'	"	"	"	-8.2	23 35	01 09	
14306	" 110883	12 40.2	27 57	"	"	"	-8.2	01 16	02 46	
14307	" 139892	15 35.6	36 58	"	"	"	-8.1	02 56	02 59	
14308	" 122693	13 58.3	25 03	"	"	"	-8.1	03 12	04 18	
14309	" 142053	15 47.3	25 37	"	"	"	-8.2	04 23	05 45	
14310	" 139892	15 35.6	36 58	"	"	"	-8.2	05 49	03 52	
	Focus Test					O.T.B.				

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS	
11:55	1 ^W 23	+26° 31'	0	8.54 K0	1-1-1	AG 25 fine
12:00	1 ^W 22	+28° 36'	0	8.60 K2	1-1-1	AG 25 l. weak
12:05	1 ^W 20	+28° 26'	0	8.72 M2	1-1-1	AG 25 good
12:10	1 ^W 19	29 58	0	8.43 K0	1-1-1	AG 25 fine
12:15	1 ^W 18	27 40	0	8.47 K0	1-1-1	" " l. strong
12:20	1 ^W 17	36 47	0	5.02 B8	3	Janner's Binary fine
12:25	1 ^W 16	34 48	0	7.92 G0	1-1-1	AG. 25 l. strong
12:30	1 ^W 15	25 26	0	8.35 K0	1-1-1	" " l. strong
12:35	1 ^W 14	36 47	0	5.02 B8	3	Janner's Binary l. strong
					6/4	

Try increasing micrometer slightly to 12.895
 Set focus 12.895

300

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
20 33	W 1 29	25 00	0	8.56 G5	1-1-1
21 26	W 1 13	29 50*	1	8.37 ^{A2} K0	1-1-1 Wrong* This * is 1950 pos: 07 17.0 29 50
22 31	W 2 20	29 15	1	8.37 K0	1-1-1
23 55	W 1 35	26 26	1	8.71 K0	1-1-1
	2 55 W	27 58	1	8.49 K0	1-1-1 HAZE
	2 49 W	34 00	1-0	7.67 G5	1-1-1
	2 55 W	26 35	1-0	7.40 K0	1-1-1
		D.T.B.			6/4
					4 P.H. 1618 H. on M

301

Date Saturday, March 13-14, 1948 Wm - 26 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
14 318	HD 45 207	06 ^h 21 ^m 1	+22° 46'	I-12	E103-9	^{5ET} 00B	-1.0°C	18 53	19 56	
14 319	HD 56 417	07 ^h 11 ^m 8	+27° 13'	"	"	"	-1.9	20 21	21 51	
14 320	HD 71 025	05 ^h 20 ^m 1	+28° 45'	"	"	"	-1.9	21 07	22 21	
14 321	HD 86 168	03 ^h 51 ^m 7	+25° 16'	"	"	"	-2.0	22 27	0 25	
	<i>Focus Test</i>									
14 322	H.D. 113 771	13 00 7	2 7 57	"	"	"	-2.0	01 56	04 56	
14 323	113 457	16 06 0	2 7 01	"	"	"	-2.0	05 02	05 53	
	<i>Focus Test</i>									

Focus @ 12.825

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
0739	+23°30'	0	8.21 G5	1-1-1	AG25	fine
0755	+23°32'	1-0	8.54 KO	1-1-1	AG25	fine
0808	+23°34'	1	8.90 KO	1-1-1	AG25	l. strong
0714	+23°33'	1	8.96 KO	1-1-1	AG25 Heavy base ~2315	good
	O.F.B.			4/4		
					3 * P.H. LOADED	
					H. 2x M.	
					NEW OBSERVING BOOK REQUIRED	
0844	36 51	1	7.93 KO	1-1-1	fine	just finishing good
0857	36 52	1-0	7.40 KO	1-1-1	thick	fine
	O.F.B.			4/4		

304

Ending Time
E.S.T.

305

finder field diameter $\sim 40'$
visitors' eyepiece " $\sim 4'$