

1
Focus: centre to violet, shorten the focus (increase micrometer reading)

leading

3

Hour Angle
End

Julian Day

Date

Hour Angle
End

Declination

Seeing

Ptg. Mag.

REMARKS

David Dunlap Observatory

74" Logbook

Vol. 18

Plate NO's 14324 - 15404

May 1948 - Oct 1948

5

Date Sunday, Mar. 14-15, 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.
14324	wy Gem. HD 42474	6 ^h 5 ^m .8	+23° 14'	I-12"	E103a-0	.008	+1.2	19 ^h 05 ^m	20 ^h 35 ^m .3
14325	HD 69349	8 ^h 11 ^m .5	+27° 43'	"	"	"	"	20 ^h 40 ^m	22 ^h 20 ^m .4
14326	HD 83098	9 ^h 31 ^m .0	+28° 13'	"	"	"	"	22 ^h 30 ^m	23 ^h 10 ^m .1
14327	HD 90346	10 ^h 20 ^m .7	+25° 14'	"	"	"	"	23 ^h 15 ^m	00 11.2
14328	" 100947	11 32.0	28 19	"	"	"	+1.1	00 18	01 38.3
14329	" 114172	13 03.8	29 55	"	"	"	+1.1	01 45	03 15.4
14330	" 130215	14 41.8	27 56	"	"	"	+1.1	03 19	04 59.1
	Focus Test					OTB			

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Emulsion	Exposure	Development	REMARKS	Plate No.
1 ^h 35 ^m , 3	1 ^h 40 ^m W	+23° 10'	1	Var. M3ep	1-1-1			fine	
1 ^h 20 ^m , 4	1 ^h 20 ^m W	+27° 33'	1	8.49 K ₀	1-1-1	AG 25	5	21 ^h 00 ^m Clouds, ^{21^h 30^m good} clear again but haze	
1 ^h 10 ^m , 1	0 ^h 50 ^m W	+27° 58'	1	8.05 K ₀	1-1-1	AG 25	⊙	Clear. Guiding. fine	
11, 2	1.01 W	+24° 58'	1	8.14 K ₀	1-1-1	AG 25	23 ^h 30 ^m	Beautiful Auroral display. fine	
11 38 3	1 17 W	28 03	1	8.61 K ₀	1-1-1	" "		up to + South of zenith. good	
11 54	1 23 W	29 39	1	8.77 G ₀	1-1-1	" "	recut slit length	fine	
12 09 1	1 30 W	27 43	1	8.88 K ₀	1-1-1	" "	haze * gone at 4.59	good	
					6/4		focus centre slightly to violet		

Auroral emission lines on last four plates.

Tues, Mar 23-4. - Partly cloudy at sunset, filling in slowly; 0.9 overcast by 2130. Wm

7

Date Wed March 24-25, 1948 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 Angle End
14331	HD 93215	10 40.7	+26 18	I-25 ¹²	E103aO	008	+7.1	23 02	02 24	2
14332	125728	14 16.2	26 31	"	"	"	+7.1	02 28	04 04	3
14333	144287	16 00.0	25 30	"	"	"	+7.1	04 11	05 43	4
	<i>Focus Test</i>									

Overcast till after 2200.

8

Form 12.893

Julian Day

Date

ending Time
E.S.T.

Hour Angle
End

Declination

Seeing

Ptg. Mag.

Declination
1900

REMARKS

Object

Date No.

224 2

3 34W

26 02

0

8.28 G5 1-1-1

Clouds. haze

406 3

1 41W

26 17

0

7.21 K0 1-1-1

543 4

1 34W

25 24

0

7.48 G0 1-

O.T.B.

6/4

4 P.H. LOADED + 28

H. ON M.

9

Date Thurs, Mar 25-6, 1948 Wm - L

Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
14334	HD 58683	07 ^h 21 ^m .6	+27°30'	I-12	E103a-0	SET 008	+3.7	19 25	20 25 1	0°55'
14335	HD 73160	08 ^h 31 ^m .8	+26°36'	"	"	"	+3.7	20 31	21 51 2	1°12'
14336	HD 83820	09 ^h 35 ^m .9	+23°20'	"	"	"	+3.7	21 56	23 36 3	1°53'
14337	HD 99957	11 ^h 24 ^m .9	+25°52'	"	"	"	+3.6	23 42	01 36 4	2°05'
14338	" 119665	13 39.5	25 48	"	"	"	+3.6	01 41	03 21 1	1°30'
	<i>Focus Test</i>					07B				
<i>Friday, March 26-27, 1948 H - cloudy with fog & later showers</i>										

Focus 12.894

Julian Day

Date

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Emulsion	Instrument	Declination 1900	REMARKS	Object	Plate No.
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0251	0 ^m 55	+27°25'	0	8.14 KO	1-1-1		AG25			
1512	1 ^m 12	+26°26'	0	8.70 KO	1-1-1		AG25			
3363	1 ^m 53	+29°07'	0	8.95 G5	1-1-1		AG25	Plate possibly not marked w. plate no.		
1364	2 05 W	25 37	0	8.93 K2	1-1-1		AG25			
3211	1 36 W	25 32	0	8.71 G0	1-1-1		" "	Haze, light clouds		
					6/4					

Date *Easter Sunday Mar 28-29, 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.
14339	HD 57267	07 15.4	26 21	$I-2\frac{1}{2}$	Si0320	008	-1.4	19 34	20 39.2
14340	HD 74624	08 39.9	28 43	"	"	"	-1.4	20 42	22 12.3
14341	HD 83008	10 03.7	25 02	"	"	"	-1.4	22 14	23 06.4
14342	106857	12 12.3	23 17	"	"	"	-1.5	00 30	01 42.1
14343	122767	13 51.7	25 55	"	"	"	-1.4	01 42	02 11.0
	Iron Vial					070			

Focus 12.893

12

ding Time
E.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
4128	26 15	0	8.28 G ₀ 1-1-1	
4127	28 32	0	8.64 G ₀ 1-1-1	
153W	29 45	0	8.72 G ₅ 1-1-1	
134W	28 59	0-1	8.84 G ₀ 1-1-1	
119W	27 49	0-1	8.78 K ₀ 1-1-1	Heavy clouds, star gone at 2311
				all plates in table work
				Apr 29 Rain squalls

ing Time
E.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	1-1-1	AG 25	REMARKS
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01 11W +27° 39'

0

2.62, K_v

1-1-1

AG 25

02 11W +26° 53'

0

2.27, K_v

1-1-1

"

03 11W +26° 41'

0

2.16, K_v

1-1-1

"

04 11W +25° 30'

1

2.50, G_v

1-1-1

"

05 11W +24° 43'

0

2.80, G_v

1-1-1

"

O.T.B.

9/4

"

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

Form 12.893.

18

ing Time
E.S.T.

Hour Angle
End

Declination

Seeing

Ptg. Mag.

REMARKS

W 106

27 45

1

8.15 Go

1-1-1

Something across slit. Brushed it off after 4 pm.

W 106

26 10

1

8.89 Es

1-1-1

Some clouds toward end of slip.
Clouds coming over whole building
on west side. Sky thickening a bit.
Closed at 2.30 sky thick.

19

Date *Monday, Apr. 14 - 1914*

Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.
14352	NO. 91685	10 ^h 30 ^m	+29° 52'	T-12	East	1005	+15°	21 ^h 50 ^m	23 ^h 50 ^m 3
14353	NO. 10948	12 ^h 29 ^m	+29° 52'				"	21 ^h 55 ^m	* GONA 0111
<i>Transit</i>									

Radial Water bands stopped (over) from
 set M.T. bands to S.T.

ding Time
 E.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
11:03	+39° 26'	0	8.45 G ₀	1-1-1 8:25, ^{11:03} Time stage, ^{11:03} ^{11:03} ^{11:03}
11:15W	+39° 23'	0	8.32 G ₁	1-1-1 8:25 (8:32) THICKENING
	O.T.B.			6/4
				H.P.H. horizon + 10. Cloud 0215
				Over April 5-6 Cloudy see over L

Date Tuesday, April 6-7, 1942 Wm - L Julian Day _____

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
14353	ND 07544	25 ^h 03 ^m 4	+25° 05'	I-12	Lois-C	5/8 6/8	+15.0	10 37	10 34	1
14354	ND 83632	25 ^h 04 ^m 6	+26° 25'	"	"	"	+14.0	20 42	22 22	2
14355	ND 95 135	25 ^h 04 ^m 14	+26° 50'	"	"	"	+13.0	22 29	23 25	3
14356	- - ND 929	13 45	25 33	"	"	"	+12.9	00 29	01 39	-
14357	- - 52304	14 53	25 05	"	"	"	+13.3	02 04	03 34	1
	<i>Unknown Star</i>					0.75				

ing Time
E.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Filters	Exposure	REMARKS
1 ^m 14	+24° 51'	0	7.93 G5	1-1-1	AG 25	
1 ^m 25	+25° 14'	0	8.72 KO	1-1-1	AG 25	
2 03.4	+25° 34'	0	8.75 G5	1-1-1	AG 25	
1 05.4	25 31	0	8.42 G5	1-1-1	" "	
1 22.4	24 52	0	8.44 R2	1-1-1	" "	Clouds / eye towards

6/4

from the 6-10-38

Edges of prism in slit touched with
pencil to correct arc spectrum
that appears close to star spectrum

L

	MC	SC	HTW	STW
Apr. 7	+1.072	-1.075	-153	+03

Date

Friday April 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.
14338	HD 71005	08 200	28 53	T-10 $\frac{1}{2}$	EMULSO	50 $\frac{1}{2}$ 005	+2.8	19 48	21 20 2
14339	" 34526	10 427	24 50	"	"	"	+2.8	21 43	23 38 3
14340	" 46347	12 23	25 35	"	"	"	+2.8	23 10	02 14 4
14341	134246	13 137	28 53	"	"	"	+2.7	02 18	03 35
14342	120188	14 254	27 15	"	"	"	+2.8	03 42	05 12
<i>Star Test</i>									

ding Time
E.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
E 10 W	28 47	0	8.40 16	1-1-1 AG 25
E 53 W	24 33	0	8.15 16	1-1-1 " "
E 55 W	23 19	0	8.79 16	1-1-1 " "
E 29 W	25 41	0	7.73 25	1-1-1
E 33 W	27 07	0	8.43 16	1-1-1
	G.T.B.			1/2
				S.P.H. LEARD + 18
				H. ON M.
				10-
				MC SC HTW STW
				Apr. 12 +1 ^m 09.2 -1 ^m 03.3 +22.2 -0.3
				Apr. 16 +1.09.2 -1.03.4 +28.2 -0.2
				Tues. April 12 in Gold Crossed
				Thurs. Apr 15-16 ~ 2.5 overcast at sunset, falling in with clouds at 21:00. Wm

Date *Tuesday April 16-17, 1948 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 Angle End
14363	4 D106398	12 09.3	27 03	I-25 ¹²⁵	Σ10320	008	+7.5	23 04	23 54	3
14364	HD 114037	13 02.7	27 03	"	"	"	+7.3	23 57	01 17	36
14365	HD 126307	14 19.6	27 53	"	"	"	+7.5	01 20	02 44	104
14366	144287	16 00.0	25 30	"	"	"	+7.6	02 48	03 46	118
14367	154510	17 00.8	28 14	"	"	"	+7.5	03 50	05 00	122
<i>Focus Test</i>										

Try focus 12,900 ✓

26

Cloudy till 2145. Very windy. Found much water in the tube - swabbed it out.

Ending Time
E.S.T.

Hour Angle
End

Declination

Seeing

Ptg. Mag.

REMARKS

W 1 06

26 47

0

7.88 G5 1-1-1

Wind decreasing

1 work

W 1 36

26 47

0

8.36 K₀ 1-1-1

Reset focus to 12,900

1 work

1 46 W

27 38

0

7.83 K5 1-1-1

But blurred, not the new one
in, but not proper kind.

2 work

1 08 W

25 23

0

7.48 G₀ 1-1-1

1 work

1 22 W

28 09

0

7.56 K₀ 1-1-1

1 work

O.T.B.

6/4

1 work

1 P.H. LOADED

Box PLATES NEEDED

about 45 visitors. H₂ showed h with 74
 L showed (with 5".

ing Time
 E.S.T.

Hour Angle
 End

Declination

Seeing

Ptg. Mag.

REMARKS

W 2 36

29 21

0

8.42 G₀

1-1-1

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

Apr 19

MC
 +1° 10.0

SC
 -1° 02.9

MTW
 -00.6

STW
 -01.1

Apr 19

Cloudy with rain L

Date Wed Apr 21-22, 1948 Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	
14369	HD 25976	9 ^h 57 ^m	+26° 28'	I. 12"	E103 ₁₀₀	.018	+12.0	19 ^h 47 ^m	21 ^h 10 ^m	1
14370	HD 93652	11 ^h 9 ^m	+26° 16'	"	"	"	"	21 ^h 10 ^m	23 ^h 40 ^m	2
14371	HD 13074	12 ^h 57 ^m	+20° 51'	"	"	"	"	22 ^h 40 ^m	01 ^h 13 ^m	3
14372	H.D. 13346	14 20.5	26 25	"	"	"	12.1	01 18	02 34	4
14373	H.D. 14545	16 06.0	25 45	"	"	"	12.1	02 37	03 51	1
14374	H.D. 16488	17 58.3	45 21	"	"	"	12.1	03 56	05 18	2

Focus Test

Thursday April 23 - All day in clouds. Low clouds. Fog - 0.3
 Sat April 24-25, 1948 Hd. Rain. no visitors

ing Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
	1 ^h 00 ^m W	+26° 15'	200.	8.25 K ₀	1-1-1 AG 25
	1 ^h 15 ^m W	+25° 58'	0.	8.35 K ₀	1-1-1 " " + 1/2
	1 37 W	+24° 35'	0.	8.58 K ₀	1-1-1 " " " " " "
	1 16 W.	26 14	0	7.72 G ₀	1-1-1 " " " " " "
	1 27 W	25 37	0	7.88 K ₀	1-1-1 " " " " " "
	0 32 W	15 21	0	7.44 A ₀	1-1-1 BINARY
		O.T.B.		9/4	" " " " " "

2 P.H. LOADED + 12

HEAT NOT ON MIRRORS

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

Date Sun. Apr 25-26, YU-1

Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
14375	HA 90746	10 ^h 20 ^m	+25° 14'	I-12	Eastman	.008	+16.2	19 ^h 55 ^m	21 ^h 05 ^m	3
14376	HA 100784	11 ^h 58 ^m	+25° 30'	"	"	"	"	21 ^h 30 ^m	23 ^h 45 ^m	11
14377	HA 117052	12 ^h 05 ^m	+24° 10'	"	"	"	"	23 ^h 00 ^m	01 ^h 00 ^m	3
14378	- 180145	13 08.5	25 10				+16.0	01 01	02 30	2
14379	AG 3055	17 08.3	29 39				+16.0	00 30	01 30	2
	Survey Point					O.T.E.				

Tray focus 12.910

Focus 12.910

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	RA	DEC	REMARKS
	1 ^h 02 ^m W	+25° 00'	0	E.14 K ₃	1-1-1	AG 25	
	0 ^h 51 ^m W	+25° 12'	0	E.18 G ₃	1-1-1	"	5
	0 ^h 45 ^m W	+24° 30'	0	E.27 G ₂	1-1-1	"	haze plate fogged
	1 ^h 53 ^m W	23 06	0-1	E.42 G ₅	1-1-1	"	
	1 ^h 22 ^m W	29 55	0-1	E.70 R ₀	1-1-1	"	
					6/4		

Focus set at 12.920

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS										
22:34	1 39W	29 22	0-1	8.42 Go	1-1-1 AG 25										
00:05	2 04W	25 43	0-1	8.54 Ke	1-1-1 " " clouds 23.25-00.20 dark										
				6/4	more clouds more clouds at 00.35 good										
				Apr. 27	<table border="0"> <tr> <td></td> <td>MC</td> <td>SC</td> <td>MTW</td> <td>STW</td> </tr> <tr> <td></td> <td>+ 69.8</td> <td>- 64.5</td> <td>+ 11.0</td> <td>+ 0.4</td> </tr> </table>		MC	SC	MTW	STW		+ 69.8	- 64.5	+ 11.0	+ 0.4
	MC	SC	MTW	STW											
	+ 69.8	- 64.5	+ 11.0	+ 0.4											

Date Friday, Sep. 30 - May 1 YU - W Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
14382	HD 90003	10 ^h 21 ^m .0	+25° 26'	2-12 $\frac{1}{2}$	E103 _{a-c}	0.08	+11.5	19 ^h 55 ^m	21 ^h 02 ^m .2	
14383	HD 126732	13 ^h 20 ^m .9	-2° 52'	"	"	"	"	21 ^h 15 ^m	22 ^h 45 ^m .2	
14384	HD 126991	10 ^h 27 ^m .3	+25° 59'	"	"	"	"	23 ^h 50 ^m	01 ^h 00 ^m .4	
14385	139007	10 30.5	25 20	"	"	"	11.6	01 04	02 44	
14386	155342	17 03.9	26 34	"	"	"	11.6	02 47	00 53	
	164898	17 58.3	45 21	"	"	"	"	03 43		
14387	164898	17 58.3	45 21	"	"	"	11.5	03 52	04 36	
				Focus Test						

Try focus 12.930

Focus 12.930

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Filters	0.01	REMARKS
	0 ^h 57 ^m W	+25° 13'	1	8.13 K ₀	1-1-1		AG 25
	0 ^h 45 ^m W	-3° 7'	1	var. G ₀	1-1-1		
	0 53 N	+24° 45'	1	8.06 K ₀	1-1-1		AG 25
	1 31 W	25 10	1	8.30 G ₅	1-1-1		"
	0 16 W	26 30	1	7.59 K ₀	1-1-1		"
	0 56 W	45 21	1	7.44 A ₀	1-1-1		BINARY
		O.T.B.			6/4		
							1 P.H. LOADED + 12

L data showed - 5000000 2 Lm thru 7e
 to the also telescope. 38

Feb 12, 1930

Ending Time
 E.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Altitude	Azimuth	Remarks
1 ^h 31	+24° 16'	0+	9.05 KO	1-1-1		AG 25
1 17 W	+25 7	0-	8.00 KO	1-1-1		AS 25
1 42 W	25 17	0-1	8.49 G ₀	1-1-1		" "
1 46 W	24 40	0-1	8.96 K ₀	1-1-1		" "
				6/4		

Date Monday 3-4 1948 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
14392	HD 90443	10 21.4	25 26	I- $\frac{12\frac{1}{2}}{3}$	E10340	008	+15.0	20 10	21 40	4
14393	HD 104784	11 55.7	25 30	"	"	"	+15.0	21 42	22 02	1
14394	HD 116029	13 15.9	25 10	"	"	"	+14.9	23 05	00 35	2
14395	" 137688	15 22.3	27 28	"	"	"	+14.9	00 44	02 32	3
14396	" 153012	17 31.2	27 23	"	"	"	+14.9	04 52	07 34	4
	<i>From List</i>					R.I.B.				

Focus 12.930

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
21:00	W 145	25 15	0	8.13 K ₀	1-1-1 <i>some clouds.</i> Program gives 81950 = 25 ^h 11. Field checks OK.
22:00	W 131	25 15	0	8.18 G ₀	1-1-1
23:00	131 W	24 55	0	8.35 K ₀	1-1-1
00:00	133 W	28 17	0	8.54 K ₂	1-1-1
01:00	119 W	21 21	0	8.33 K ₀	1-1-1

G/4

focus

		M ₁₀		SC		MTW	STW
May 7	12	+1 ^m 06.6		-1 ^m 04.1		-03.2	-0 ^m 0

Ending Time
E.S.T.Hour Angle
End

Declination

Seeing

Ptg. Mag.

REMARKS

1 ^h 32	29°23'	1+	3.95	90.1-1-1	AG 25	TRANSVERSE SECTION
1 ^h 34	29°28'	1-2	3.19	65.1-1-1	AG 25	PROGRESSIVE CIRCLES
1 ^h 40	29°28'	1-3	8.31	35.1-1-1	AG 25	TRANSVERSE
	D.T.3			$\frac{5}{12}$		

4 P.H. LEADERS + 20

H on check

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

	m.c.	0.0	m.t.w.	0.1	s.w.
May 10	+0.6	-0.4	+0.3	-0.1	0.00

wed. May 12/13. Cloudy, becoming overcast by 2:00. Wm.

Temp. 10.5
 Wind. 12. 12.0

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	RA	DEC	REMARKS
151	105W	25 38	0	7.88	Ko 1-1-1	A.G. 35	1.0
154	101W	24 16	0-1	7.58	Ko 1-1-1		1.0
157	109W	25 12	1	7.58	Ko 1-1-1		1.0
		O.T.B.			9/4		

1 P.H. ...

	MC	SC
May 17	+660	-663
	me	se.
May 18	+630	-67

HTW	STW
+70.2	+10.2
HTW.	STW.
+19.2	+8.2

Date June 16/19, 1949 Min. 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
14903	HD 101 511	12 37 41	+30 27'	T-72	Em-0	5"	+12.0	20 35	22 08	3
14904	HD 115 270	13 31 20	+25 23'	"	"	"	+12.0	22 11	23 45	1
14905	H.D. 137002	15 15 6	+28 34'	"	"	"	+12.0	23 49	01 53	2
14906	155333	17 03 0	+28 07'	"	"	"	+12.0	01 47	04 21	2
	Sun taken outside the box					6" x 5"				

Date Wed. May 19-20, 1948 HL- Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
14407	HD 102142	11 40.3	+27 46	I-12	E10340	008	+11.2	20 26	21 16	3
14408	HD 109552	12 30.5	29 23	"	"	"	+11.1	21 21	23 25	4
14409	HD 130766	14 44.9	25 35	"	"	"	11.2	23 29	01 03	1
14410	152032	16 40.9	26 22	"	"	"	11.1	01 07	02 33	2
14411	155032	18 12.2	27 04	"	"	"	11.3	02 43	04 05	3
<i>Stars Test</i>										
Thurs May 20-21 / 48 Yu-No										
Cloudy with sleet & showers early evening - clearing about 2:00 AM (still very foggy) - filled in + 200 ft. done sweating badly.										

Focus 12.930

48

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
2:10	W 1 06	27 29	2+1	7.72 G ₅	1-1-1
2:25	W 2 26	29. 06	1-0-1	8.39 G ₀	1-1-1 frequency, control & bad. Clouds 2240-2300
2:41	0130W	25 33	0-1	8.06 K ₀	1-1-1
2:51	1 19W	26 18	2-1	7.99 K ₀	1-1-1
3:05	1 34W	27 05	0-1	8.23 G ₀	1-1-1 DOME TURNING FAILED
	O.T.B.				6/4

4 P.H. LINDSAY + 128

fine about 12:00

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

Set 25" tilt 23.15 focus 15.552 mic, 23.56 vernier
(- Tabular - 18)

Date ~~Wed~~ ^{Fri} May 21-22, 1948 Hd-12 D Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
14412	^{Hd 116842} Alcor	13 21.2	55 30	I-25	E10340	005	+10.0	20 56	21 16	1
								21 22	21 40	110
								21 42	21 52	101
14413	"	"	"	"	"	"		21 53	21 47	10
								21 55	22 0	10
							+10.0	22 07	22 25	10
14414	"						+10.1	22 30	24 41	1
								22 42	24 40	
								43 50	00 00	
14415	"						+10.0	00 00	00 24	
								00 49	00 12	
								00 10	00 14	
14416	"						+10.0	00 00	00 36	
								00 30	00 36	
								00 30	00 30	
14417	"						+10.0	00 39	00 30	

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS	
21 10	E 0 26	85 15	0	4.16 A5	9	Set 1 Some clouds, finally thick
2 --	W 0 01		0		9	Set 5 clouds, then clear
2 5-	W 0 10		0		9	Set 8 1/2 { no guiding
	W 0 15		0		9	Set 1
	W 0 35		0		9	" 6 Clouds again
	W 0 45		0		9	" 9
			0		9	Set 1 Clearing
			0+		9	- 6
	W 2 18		1		9	" 9
			1		9	Set 3
			1+		9	- 6
	2 34		1+		9	" 9
			1+		9	Set 1
			1+		9	" 6
			1+		9	" 9
					9	Set 2

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
		55 5	0+	+16 45	9 - 10 Set 6
			0+		9 " 9 <u>Double</u>
	0 48 W	57 30	1-2	6+8-6	3-3-3 10 7 clear at 11:00 Bin.
				10-7	Set 8
	5 07 W	+16 30	1-2	7+8-6	3-3-3 clouds at 3:00 Bin. 10:10 a plate Holman 10:10
Saturday AM					
changed to 12". Focus mirror to 12.930 mirror 26.18					
Tilt 20.25					

Date Mon. May 21 25, 1918 Mon. 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
14423	HD 122 052	15 ^h 51 ^m 3	+25° 30'	7-12	III	505	-13.2	22 05	23 24	
14424	HD 130 608	15 ^h 31 ^m 0	+24° 51'	"	"	"	12.2	23 33	00 49	
14422	15 16 35 16 42.5	28 34		"	"	"	13.2	00 32	28 53	
14426	17 59.1	18 52.7	28 04	"	"	"	13.1	01 26	23 57	
<i>Transit</i>										

Date Tues May 25 26 1948 H_a-D_e-No Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
14427	HD 106398	12 09.3	+27 03	I-12	103a-0	00E	+16.0	20 57	21 51	2
14428	HD 115929	13 10.7	-28 38	T-12	103a-0	008	+16.0	22 01	23 41	3
14429	HD 139749	15 34.8	+26 04	I-12	103a-0	008	+16.0	23 57	01 43	1
14430	158332	17 23.6	+26 53	"	"	"	+16.0	01 57	02 15	
14431	181462	17 45.0	+21 29	"	"	"	+16.0	03 19	04 01	
	Some faint handwritten notes in the bottom row, possibly "Some faint handwritten notes in the bottom row 6-5"									

Focus 12.940

60

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp.	REMARKS
2:5	V 1 37	26 48	1	7.88 G ₅	1-1-1	De focusing + changing filter
2:7	V 2 22	28 22	1-2	8.42 G ₀	1-1-1	
2:8	2 06 W	25 54	2	8.43 G ₅	1-1-1	
2:8	1 48 W	+26 50	2-3	8.51 G ₅	1-1-1	stop
2:9	2 13 W	+27 35	3	7.28 G ₀	1-1-1	to

$\frac{1}{2} \times \frac{1}{2} = \frac{1}{4}$
 $\frac{1}{2} \times \frac{1}{2} = \frac{1}{4}$
 $\frac{1}{2} \times \frac{1}{2} = \frac{1}{4}$
 26/48 (reset)

Date *Aug 26-27 1951* 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
14 432	HD 111 291	12 45	48 31	1-12	103	000	+18.7	23 21	21 25	3
14 433	HD 117 025	13 22	42 34	"	"	"	+18.5	21 30	23 15	23 15
14 434	HD 136 274	18 45.7	126 09'	"	"	"	19.0	23 24	00 48	1
14 435	16 4298	17 58.3	45 21	"	"	"	19.0	00 35	01 35	3
14 436	15 9968	17 33.4	27 39	"	"	"	19.0	01 24	02 39	3
14 437	17 2169	18 33.5	39 29	"	"	"	19.0	02 43	03 15	3
14 438	21 0334	22 02.4	43 15	"	"	"	19.0	03 37	03 54	20.6
<i>Frame Test</i>										
14438F ₁				0			Temp 1, 5.9			
F ₂				5a			" 1, 5.9			
F ₃				De			" 1, 5.9			

Focus 12.390

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS	
0 ³⁵	0° 39	+25° 45'	2	7.91 KO 1-1-1	AG 25	fine
0 ⁴⁵	1° 51	+25° 55'	2	3.77 KO 1-1-1	AG 25	fine
0 ⁵⁵	1 33 W	25 53	2	8.30 GO 1-1-1	AG 25	HAZE
1 ⁰⁵	0 24 E	45 21	2	7.44 A. 1-1-1	BINARY	HAZE
1 ¹⁵	1 06 W	27 36	2	3.00 M. 1-1-1	AG 25	fine
1 ²⁵	0 41 W	27 31	2	7.69 K. 1-1-1	AG 25	fine
1 ³⁵	2 06 E	45 29	2	7.10 G. 1-1-1	BINARY	fine
	O.T.B.			5/4		
					3 P.H. LOADED + 4	
	O.T.B.			3/4	PLATES NEEDED	
	O.T.B.			5/4		
	O.T.B.			5/4		

about 140 visitors

66

Mars + M3 with 74-inch

Saturn with 45-inch

Venus with 4-inch

being visited

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp.	REMARKS
01:04	1 47 W	+29 36	0-1	7.94 M3	1-1-1	Focus left at 12.950
02:34	2 17 W	+26 10	0	8.27 G5	1-1-1	- I believe there is a nebula in the 1950 A.A. coordinate of this star - should be ✓ 16" 27.8 - star field corroborates this conclusion thin cirrus clouds 01.45 - progressively thicker 02.15 - star gone 02.30

focus OK

Focus 12.950

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Remarks	REMARKS															
22:30	1 ^h 55 ^m W	+26° 00 ^m	1	8.78, G ₀	1-1-1	AG 25															
	1 ^h 55 ^m W	+25° 18 ^m	1	8.27, G ₅	1-1-1	"															
	1 ^h 49 ^m W	+25 30	1-2	8.28 K ₀	1-1-1	light haze + clouds from N 01 20															
	2 ^h 22 W	+25 39	1+	8.18 K ₀	1-1-1	falling 3 light clouds, N wind 02 40															
						8															
						4+12 plates in dome.															
						<table border="0"> <tr> <td></td> <td>m e.</td> <td>s.e.</td> <td></td> <td></td> </tr> <tr> <td>May 31/48</td> <td>+57.1</td> <td>-72.2</td> <td>+02.0</td> <td>+0.0</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td>+0.3</td> </tr> </table>		m e.	s.e.			May 31/48	+57.1	-72.2	+02.0	+0.0					+0.3
	m e.	s.e.																			
May 31/48	+57.1	-72.2	+02.0	+0.0																	
				+0.3																	

Focus 12.950

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	1-1-1	2-1-1	3-1-1	REMARKS
00 00	2 ^h 20 ^m W + 27 05		0	7.91 G ₀	1-1-1			Hazy
00 00	2 06 W + 25 31		0	7.93 K ₂	1-1-1			Partial Hazy
00 02	1 10 W 26 07		0	7.70 K ₅	1-1-1	AG	25	good
00 06	1 15 W 28 11		0	7.58 K ₀	1-1-1			good
00 08	1 51 E 25 28		0	7.10 G ₀	1-1-1			BINARY
	O.T.B.				6/4			

2 P.H. LOADED + 12

focus center slightly from white

From 12.955

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Color	Remarks										
23 23 2	1 06W	+28 07	1	7.63 G ₅	1-1-1	A.G. 25 0 guiding										
00 07 3	1 53W	+26 55	1	8.63 K ₀	1-1-1	" "										
01 17	0 50W	+25 51	1	7.61 K ₀	1-1-1	"										
02 51	1 16W	+45 20	1	7.44 A ₀	1-1-1	BINARY										
03 12	1 10W	+30 12	1	7.77 K ₅	1-1-1	A.G. 25										
		O.T.B			6/4											
						1 P.H. Loadings + 8										
						June 2/48										
						<table border="0"> <tr> <td>M₁</td> <td>SC</td> <td>M₂</td> <td>ST₁</td> <td>S₂</td> </tr> <tr> <td>+56+</td> <td>-75.2</td> <td>+6</td> <td>+8.0</td> <td>+0.0</td> </tr> </table>	M ₁	SC	M ₂	ST ₁	S ₂	+56+	-75.2	+6	+8.0	+0.0
M ₁	SC	M ₂	ST ₁	S ₂												
+56+	-75.2	+6	+8.0	+0.0												

(clouds & haze to 12:30 Wm.)

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

Focus 12.955

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
01:31	057W	75 16	0	7.24 F2 1-1-1	FINDER W Supp.
02:46	040W	45 12	0	6.86 A0 1-1-1	BRASS EYEPiece SLIT Supp.
03:16	033W	27 51	0	6.51 B5 1-1-1	BINARY
03:55	142E	45 28	0	7.10 G0 1-1-1	BINARY
		O.T.B.		6/4	plate number 15455

1 P. H. + A.

June 8/48

MTW.	STW.
-0.2	+0.4

June 8/9: Rain & overcast. Wm.

75

Date Wed June 9-10, 1954 Md. De Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.
14460	HD 132737	14 26.6	+27 23	I-12	E1029D	500	+19.7	22 19	23 28 3
14461	HD 145870	16 08.3	26 42	"	"	"	+19.8	23 33	00 53 4
14462	HD 166653	18 06.7	29 04	"	"	"	+19.8	00 59	01 11 1
		Focus Test							

cloudy earlier

June 12, 1957

76

Mirror re-illumined since June 3.

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	colours	arrangement	REMARKS
	W 125	27 22	0	8.61 K ₀	1-1-1	Some haze	Low
	W 138	26 35	0	8.70 K ₂	1-1-1		Low
	N 0 04	+29 04	0	8.57 G ₅	1-	Done sweating excessively - Sweating	Low
		O.T. B			6/4	discontinued to prevent condensation on mirror	

1 P.H. Looked + 12

focus on the white match

June 10/48

m e.
+51

g.c.
-18

m.T.W.
-03

3.T.W.
+0.5

Rank
S.W.
00

Date

7-11 June 1948

Hd-Ga-De-Na

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
13463	119944 Hd-Ga-De-Na	17 412	43 +27.92					22 25	22 54	2
	72 cm lens									
<p>Saturday June 12-13/48 Hd-Ga-De-Na</p> <p>8:15 p.m. 50 minutes in instrument later and done when</p> <p>with 74" telescope by Hd etc</p> <p>day showing some promise by 11:00 AM - clearing slowly -</p> <p>thought of opening up 03:30 - found focusing Delh</p> <p>broken - could not get it to stay permanently fixed</p> <p>after closing time!</p>										

79

Sun
Date June 13-14 1949 ^{6^u} Wm - De Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
14464	HD 82750	00 30	+45 24'	I-12	Elekto	623	—	20 57	21 11	3
14465	HD 130500	17 45	+25 53'	I-12	Elekto		21.6	21 24	22 30	15
14466	HD 143765	15 25	+25 12'	"	"	"	21.7	22 59	23 47	1
14467	HD 155041	17 41	+20 17'	"	"	"	21.3	23 50	01 02	1
14468	HD 167782	18 11.7	+25 46'	"	"	"	21.1	01 09	02 25	3
14469	HD 196133	20 30.3	+44 50'	"	"	"	21.0	02 33	02 45	4
14470	HD 190470	20 00.0	+25 30'	"	"	"	21.0	02 52	03 47	1
			Focus Test							

ending Time
E.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
14 50	+12 21'	1	5.00 F2	1-1-1
1 15	+25 42'	1-0	8.96 K ₀	1-1-1
3 57	-37 05'	1	8.44 G5	1-1-1
1 08W	+29 13	1	8.20 K2	1-1-1
1 24W	+25 47	1	8.91 K ₀	1-1-1
0 06E	+44 59	1	6.68 A ₂	1-1-1
0 55W	+25 38	1	8.51 K ₀	1-1-1
	O. T. B			6/4

Binary

AG 25

Mirror heat on.

2 P.H. Loaded +4

June 17/48

mc	sc	ms	ms
+49	-80	000	-0.1

81

Date *Mon June 14-15 1948*, *L-Gg/v* Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
14471	HD 82780	03 29 ¹	40 24	T-12 ¹	F.1000	set 058	22.9	21 07	21 21	2
14472	HD 126778	14 22 ⁵	29 02	T-12 ²	"	"	23.0	21 34	23 00	3
14473	HD 147 ^{486²}	16 17 ²	19 13	"	"	"	22.8	23 12	01 38	4
14474	175254	18 49.2	23 15	"	"	"	22.5	01 36	02 48	3
14475	196133	20 30.3	44 50	"	"	"	22.2	02 55	03 09	2
14476	210334	22 04.6	45 15	"	"	"	22.4	03 15	03 27	3
<i>Fraunhofer</i>										

Date Tues. Sept 15-16, 1948 Md-C - De Julian Day Ga

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
14477	4D 32780	09 29.1	+40 24	L-12 1/2	E-102-0	^{S₁} 0.8	19.0	21 01	21 21	1
14478	4D 136901	15 10.1	+25 59	"	"	"	18.3	22 00	22 54	2
14479	4D 147457	16 18.2	+27 36	"	"	"	18.8	23 06	00 46	3
14480	4D 165589	18 01.6	+22 41	"	"	"	18.6	00 58	01 32	4
14481*	Comet 1442	^{dt} 00 15.1	^{dt} +50 45	"	"	^{S₁} .012	18.9	01 54	03 34	1
		Focus	TEST			^{S₁} .008				

* Hopefully underexposed. Plate is now (4000) in general file at beginning of other

Focus set at 12.986

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
	5 07N	+10 12	0	6.70 F ₂	1-1-1 Bury * mount of focus and belt broken
	7 54W	+35 48	0	3.22 K ₀	1-1-1 Fixed belt with thread
	1 46W	+27 30	0	2.96 S ₀	1-1-1
	0 48N	+28 41	0	7.86 K ₂	1-1-1
	3 19E	+54 56	0	Int 6-7?	1-1-1 guiding at motor speed. star mostly out of range. 1/2 hr. from 10:00 to 10:30 6/4
		O.T.B			3 P.H. Loaded +4 Mirror heat on Jan 12/48

10:00	10:00
+0.1	0.0

87

Date Thurs June 17-18, 1948 120 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
14486	H D 126598	14 21.4	+16 42	1-24 ^{12 1/2}	F 103-50	50 μ 100 μ	19.9	21 00	21 30	10
14487	H D 129350	15 31.7	+15 57	"	"	"	19.8	22 14	22 44	10
14488	H D 125275	17 19.0	+15 21	"	"	"	19.6	23 57	24 01	9.1
14489	144129	18 33.6	+29 29	"	"	"	19.6	01 05	01 35	10
14490	137526	18 46.7	+24 25	"	"	"	19.6	01 39	02 33	10
14491	195123	21 30.3	+4 00	"	"	"	19.2	02 33	02 35	10
14492	210332	22 14.0	+0 10	"	"	"	19.6	03 01	03 40	10
<i>Henry West</i>										

Focus 12976

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
	1 25W	25 30	0	8.51 K5	1-1-1	AG 25 fine
	1 36W	25 59	0	7.84 G5	1-1-1	AG 25 fine
	1 19W	25 15	0	8.53 G5	1-1-1	AG 25 fine
	0 33W	29 32	0	7.69 K0	1-1-1	AG 25 fine
	1 12W	28 23	0	7.25 K0	1-1-1	AG 25 some clouds strong
	0 01E	45 00	0	6.68 A0	1-1-1	BINARY clouds w. strong
	0 51E	45 29	0-1	7.16 G0	1-1-1	BINARY <u>w. strong!</u>
		P.T.B.			$\frac{6}{4}$	

3 P.H. + 4

June 18/48 focus OK.

m.g.	s.g.	m.T.W.	STW ₁	Reset
+45°	-82°	+07.0	0.0	S.W.
				0.0

89

Date Saturday June 19-20/45 Wm. 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.
14495	H.D. 143705	15 56.9	+29 13	12 1/2"	EBL 20	0.028	+19.0	22 37	23 45
14494	154760	17 02.3	+26 38	"	"	"	+19.0	23 43	01 33
14495	181047	19 13.8	25 11	"	"	"	19.1	01 37	02 19
14496	196153	20 30.3	44 50	"	"	"	19.1	02 54	03 06
14497	215334	22 04.6	45 45	"	"	"	19.1	03 11	03 41
<i>Gene West</i>									

Approx. 40 visitors shown
 Had R with 4"
 E Box with 74"

Cloudy during afternoon - clearing slowly at sunset.

90

Focus set 12.986"

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp.	REMARKS
23 44	1 21 W	+29 06	0*	8.44	G5 1-1-1	A.G. 25" - large? fine
01 33	2 05 W	+26 34	0	8.63	G5 1-1-1	fine
02 49	1 09 W	25 16	0	8.83	G0 1-1-1	fine
03 06	0 10 W	44 39	0-1	6.68	A3 1-1-1	BINARY F.T. ON TOP fine
03 41	0 49 E	45 28	0	7.10	G0 1-1-1	BINARY fine
		0.5.3.			9/4	

focus OK
 2 P.H. LOADED + B

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

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.
14498	120815	17 43 2	+28 32	12 1/2"	E10a0	008	+227	21 54	22 58
	112 22 197	18 40 1	+28 48	12 1/2"	E10a0	008	+225	21 38	22 58
14499	147 13 2	18 50 7	+28 07	"	"	"	+225	23 05	01.16 3
14500	174126	18 43 9	+28 32	"	"	"	+221	01 21	03 01 4
	Focus test - outside three days 6 ^h -5 ^h								

Focus 12.505 or 12.600

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp	REMARKS
		+27 36	0	8.75 K ₂	L+5	This is not visible in view!
22 58	0 ^h 54 ^m W	+28 30	1	8.49 K ₂	1-1-1	Belt or focusing motor broken L+7. Turn off for repairs. 1-1-1 Haze + light cloud!
01 16 3	2 26 W	+29 43	1-2	8.70 K ₀	1-1-1	hazy clearing somewhat 00.00 fine
03 01	1 55 W	+28 35	1-2	8.56 K ₂	1-1-1	more haze 01.00 - much thicker 02.00 at least 2 magnitudes of haze by 02.50 - worthless to continue! fine - a very light cloud June 21 00 00 with

Focus - 12.986

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
	0 27W+25 35		1	8.5 K ₁	Cloud after first few minutes. too much! Closed at 2259 - heavy clouds approaching with threat of rain. 2 PH loaded + 8
		O.T.B			
	2 44N	+45 21	0	7.92 by 1-1-1	<u>EMERY</u> ^{8.22} 8.22 - stars gone or 48 dark and mounting from lamps with light Mars out 24 1 PH - loaded + 8
					MTW 0.0 ~ STW -0.1 m

Focus 12.986

Ending Time L.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
23 12	1 25W	+25 15	0	8.84 G5-1-1-1	AG 25
23 30	3 08W	+26 14	0	8.95 G5-1-1-1	" large gathering 0010 - 7H
		O.T.B		6/A	
					H. on N.
					3 P.H. loaded + A.

Upper 50 miles shown @ 300
with 74" and 4 with 3, and long telescope.

Focus - 12.986

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
0052	1 ^h 18 ^m W	+26 48	0	8.23 60	1-1-1 Haze! AG 25 Sky obscured until 2.3-4. 6/5 closed down 0100 very heavy haze 2 PH loaded +4 (returned to refrigerator) Mirror heat ON

June 28/48	m.e +37.0	s.c. -70.0	m.t.w. +14.8	s.t.w. -0.4	Reset STW -0.4
June 30/44	MTW +1 ^m	STW -1.7 ^m			

Date Wednesday June 20 July 1 / 48 S.H.D.N. Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
14506	NGC 4904	15 162	+02 16	Newton	E1000	—	—	21 24	21 29	
14507	6205	16 30.9	+36 28	"	"	—	—	21 33 ₈₅	21 36	
14508	6207	16 45.6	+47 37	"	"			21 43	21 47	
14509	4634	14 27.2	+01 44	"	"			22 02	22 16	
14510	5897	15 14.6	-30 47	"	"			22 25	22 35	
14511	6333	17 16.2	-18 28	"	"			22 38	22 42	
14512	6171	16 57.7	-12 57	"	"			22 05	22 17	
14513	6373	17 16.2	-18 28	"	"			23 23	23 31	
14514	6293	16 14.1	-23 52	"	"			23 35	23 41	
14515	6779	19 14.6	+30 25	"	"			23 46	23 52	
14516	6338	19 21.3	+18 38	"	"			23 57	00 02	
14517	6171	16 57.7	-12 57	"	"			00 01	00 19	
14518	6333	17 16.2	-18 28	"	"			00 21	00 27	
14519	I.C. 1276	15 25.4	+06 29	"	"			00 36	00 46	
14520	NGC. 6335	17 16.2	+18 28	"	"			00 47	00 57	
14521	I.C. 1311	20 08.8	+41 04	"	"			01 07	01 12	

Ending Time EST.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
					Focused on Betelgeuse
21:30	2 12W	+22 16			
21:31	2 52W		poor seeing		
21:32	0 27E		"		
21:33	2 13W				
21:34	2 03W	-20 48			
21:35	2 03E				refined focus on Betelgeuse
21:36	1 03W	-12 25	poor!		No guiding
21:37	2 30W				
21:38	1 46W	-22 30			
21:39	1 03E				
21:40	2 12W				
21:41	2 13W				
21:42	1 30W				found a 12th mag star
21:43	2 13W				
21:44	2 23E				
21:45	2 31E				

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
2:30	38 W				
1:45	1 38 W				Found (90) beyond the first measurement
2:45	42 W				
2:45	36 N				
2:45	32 E		fair		the quality
2:45	34 E				
2:45	16 W				
2:45	34 W				the quality
					July 1 - 11 ⁰⁰ 201857 - Transit greenhouse tent off

Date Thurs July 1-2/48 S-H-De-No. Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.
14530	NGC. 5904	15 16.0	+02 16	Newt	E10300	—	—	21 24	21 27
14531	6205	16 39.9	+36 33	"	"	—	—	21 31	21 34
14532	6229	16 45.6	+47 37	"	"	—	—	21 40	21 54
14533	5634	14 27.0	-05 45	"	"	—	—	21 57	22 11
14534	5897	15 14.6	-20 49	"	"	—	—	22 15	22 25
14535	6333	17 16.2	-18 28	"	"	—	—	22 29	22 35
14536	6171	16 21.7	-17 57	"	"	—	—	22 31	22 49
14537	6779	19 14.6	+30 05	"	"	—	—	22 56	23 00
14538	6333	17 16.2	-18 28	"	"	—	—	23 13	23 21
14539	6338	19 31.3	+12 38	"	"	—	—	23 38	23 46
14540	IC. 1311	20 08.8	+41 04	"	"	—	—	23 50	23 59
14541	NGC 6093	16 14.1	-22 52	"	"	—	—	00 11	00 17
14542	6171	16 21.7	-17 57	"	"	—	—	00 21	00 25
14543	6333	17 16.2	-18 28	"	"	—	—	00 31	00 44
14544	6338	19 31.3	+12 38	"	"	—	—	00 45	00 53
14545	IC 1311	20 08.8	+41 04	"	"	—	—	00 57	01 09

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
					Focused on β Libr.
21 27	00 34W	+02 21			
21 34	00 45E	+36 38			
21 54	00 27E	+47 42			
21 57	02 07W	-05 44			
21 58		-20 47			No guiding
21 59		-15 26			Un-guided
22 00	00 42W	-12 53			telescope out of balance and subject
22 01	01 48E	-18 24			focused on β Libr.
22 02	01 44E				
22 03		+41 06			No guiding
22 07	02 24N	-22 46			
22 08	02 27W	-12 53			
22 09	02 30W	-15 21			
22 10	00 37E	+15 43			
22 11	00 34E	+01 10			

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
	01 46E	-00 28			
	01 49W				
	01 57W	-24 50			
	02 00W	-22 25			
	02 51W	+18 43			focused on \odot April No guiding
	03 21W	-12 40			
	02 37W	+01 00			
	0 03W	-01 00			

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Date *Wednesday July 27 1902* Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	
14554	HD 149702	16 33.0	+29 50	1-12	E 1-12	^{let} .004	+25.6	22 16	23 02	2
14555	HD 159109	17 30.0	+29 49				+25.6	23 12	23 24	3
14556	HD 17630	18 31.9	+27 04			"	25.4	20 07	20 33	4
14557 ^{with} B(8)	AG 10151 15449	19 31.7	+35 10				25.3	21 02	21 42	
14558	AG. 11036	20 10.2	+26 29				25.3	21 49	02 27	
14559	2012-6	21 03.4	+25 14				25.4	02 40	03 20	
14560	210334	22 04.6	+20 15				25.4	03 27 1/2	03 34 1/2	
14561	211601	22 10.2	+20 18				25.4	03 39	04 55	

Plates 14554 - 14558 and 14561 developed in slow and sod. sulphite only.

HD 177251
14557A(5) AG 9516 18 58.8 +29 09' " " " (25.3) (0039) (0057)

... E. ...
 ... 70 ... and ...
 ...

Focus 12.776

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp	REMARKS
	0 ⁺ 22W	+20° 48'	1-2	8.78 B ₅	1-1	AG 25
	0 21W	+20 16	1-2	8.90 M ₀	1-1-1	AG 25
	0 20W	+20 11	3	8.92 K ₀	1-1-1	AG 25
	0 19W	30 16	3	8.98 K ₀	1-1-1	AG 25 D.R. STUCK SET ON WONG*. NO. CHECKED WATCH + 0.15
	0 18W	26 27	3	8.93 G ₅	1-1-1	AG 25
	0 17W	25 24	3	8.93 K ₀	1-1-1	AG 25 J.P. BT. CH. ...
	0 16	42 26	3	7.10 G ₀	1-1-1	BIMBY (beautiful) ...
	0 15W	26 40	3	7.90 B ₅	1-1-1	AG 25
	C.T.B.				4/4	1 P.H. ... H. ...
						NOTE re plate no 14557. The star on setting 8 is indicated in obs. book above as HD 184719. The star with the coords listed above has no HD number but is AG 10151 [K ₀]. Also on the above plate is AG 9516 [K ₀]. It was first believed to be wrong star but Ga believes it to be as indicated. blow
(0057)	0 27W		3	8.42 K ₀	1-1	- Ga / July 9/48

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Date Sunday July 15 1940 Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
14562	HD 141870	15 45.3	+25 46	2-12	E 103a	set 008	+27.0	21 15	22 43	2
14563	HD <u>156746</u>	17 15.4	+27 23	"	"	"	+27.0	22 49½	23 49½	3
14564	HD AG 3378	18 21.9	+29 31	"	"	"	27.0	23 57	01 33	3
14065	HD 194405	20 20.2	+30 26	"	"	"	27.1	01 55	02 30	1
<i>From Set</i>										

Focus 12.957

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
01:30	W	+25 37	0	8.82 G5	1-1-1 AG. 25
03:08	W	+27 19	0-1	8.78 Mo	1-1-1 " Spot at end of bar for 5 min. fine
04:45	W	+29 22	2	8.79 Ko	1-1-1 " Spotting too faint
07:30	W	+25 44	2	8.72 K5	1-1-1 " haze & thickening. stars work
		C.T.B.			5/4 3 P.H. losses

July 5/48 H. ON M.
 29° +51 +17.5 +0.1

Try focus 12 997 ✓

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Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
02:00	04 E	+28 24.5	0	3.93 K _s	1-1-1 Setting 57 1/4 appears due to some density of mag.
02:00	03 E	+28 24.5	0	"	1-1-1 Setting 3 1/2 small fringe mag. or cloud 3.5-3.5
02:00	01 W	+26 13	0-1	3.57 K _s	1-1-1 AG. 25. strong

6/4

1 P. hi. Saded

H. on M.

TN MTW
-15^m +.2^m

July 6/48.

MC SC
+27^s -75^s

Cloudy evening. clearing approx 0015

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
	0 05W	+18 41			Focused on 2 Agil
	07W	+41 04			
	08W	-23 55			
	12 10W	-24 50			
	14 20W	-12 40			
	17 15W	-01 02			
	21 15W	+12 01			
	23 10W	-22 02			
	01 10W	-17 42			

Motor on Newtonian platform requires
checking - slow in attaining speed.

14C 10 200 500
+21° -70° +2" -5" July 2

Date Wednesday July 7-8/48 S.H.D. Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
14577	N-30 6205	16 37.9	+26 33	Newt.	E-10320	—	—	21 20	21 33	
14578	" 5704	15 16.0	+02 16	"	"	—	—	21 29	21 32	
14579	" 5897	15 14.6	-20 49	"	"	—	—	21 42	21 52	
14580	" 6402	17 35.0	-03 13	"	"	—	—	22 03	22 17	
14581	" 6333	17 16.9	-18 28	"	"	—	—	22 22	22 30	
14582	" 6356	17 20.7	-17 46	"	"	—	—	22 34	22 43	
14583	" 6293	16 14.1	-22 52	"	"	—	—	22 51	23 03	
14584	" 6402	17 35.0	-03 13	"	"	—	—	23 09	23 23	
14585	" 6333	17 16.2	-18 28	"	"	—	—	23 27	23 35	
14586	" 6235	16 50.4	-22 06	"	"	—	—	23 39	00 03	
14587	" 6779	19 14.6	+30 05	"	"	—	—	00 09	00 15	
14588	" 6838	19 51.3	+18 38	"	"	—	—	00 18	00 24	
14589	IC 1311	20 07.5	+41 04	"	"	—	—	00 29	00 39	
14590	NOC 6333	17 10.2	-18 28	"	"	—	—	00 50	00 58	
14591	" 6402	17 35.0	-03 13	"	"	—	—	01 03	01 17	
14592	" 6626	19 21.5	-24 54	"	"	—	—	01 21	01 29	

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
					focused on a star
00	02 E	-36 38			
01	03 N				Fullball 21 31 30
02	02 W	-20 48			
00	03 E	-03 11			
00	00	-18 26			
00	00 14 W	-17 44			
00	00 36 W	-22 50			Focused on γ Cephei
00	00 35 W	-03 12			No guiding
01	01 06 W	-18 25			Dec trail - 30 sec.
01	02 00 W	-22 04			
01	00 12 E				
01	00 40 E				
01	00 42 E				
01	02 22 N	-18 24			Focused on ϵ Serp
01	02 29 N	-03 10			
01	01 55 N	-24 52			

Date Thursday July 5 / 45 S. D. De Ha Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
14601	NGC 6205	16 39.9	+36 33	Newt	Kodak	—	—	21 19	21 22	2
14602	" 5904	15 16.0	+02 46	"	"	—	—	21 28	21 31	3
14603	" 5897	15 14.6	+20 49	"	"	—	—	21 36	21 46	4
14604	" 6402	17 35.0	-3 13	"	"	—	—	22 06 21 52	22 00	5
14605	" 6333	17 16.2	-18 28	"	"	—	—	22 22	22 28	6
14606	" 6535	18 01.3	-0 18	"	"	—	—	22 32	22 52	7
14607	" 6093	16 14.1	+22 52	"	"	—	—	22 55	23 01	8
14608	" 6779	19 14.6	+30 05	"	"	—	—	23 08	23 12	9
14609	" 6402	17 35.0	-3 13	"	"	—	—	23 22	23 30	10
14610	" 6426	17 42.4	+03 12	"	"	—	—	23 42	00 06	11
14611	" 6333	17 16.2	-18 28	"	"	—	—	00 30	00 36	12
14612	" 6342	17 18.2	-19 32	"	"	—	—	00 39	01 03	13
14613	" 6656	13 33.3	-23 58	"	"	—	—	01 08	01 12	14
14614	" 6426	18 21.5	+24 34	"	"	—	—	01 16	01 24	15
14615	" 6717	19 52.1	-22 47	"	"	—	—	01 29	01 47	16
14616	" 6981	20 50.7	-12 44	"	"	—	—	01 59	02 13	17

Date Friday July 2-10/48 S-L-No Julian Day

Plate No.	Object	R.A. 1000'	Declination 1000'	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
14622	NGC 6205	16 319	+36 33	Newt.	E-103.0	—	—	21 17	21 20	2
14623	6229	16 456	+47 37	"	"	—	—	21 24	21 34	1
14624	6402	17 350	+03 13	"	"	—	—	21 40	21 54	2
14625	6333	17 162	-18 28	"	"	—	—	21 57	22 03	1
14626	4897	15 145	-20 49	"	"	—	—	22 06	22 16	2
14627	5904	15 160	+02 16	"	"	—	—	22 26	22 31	1
14628	6035	17 312	-00 18	"	"	—	—	22 37	22 53	2
14629	6402	17 350	+03 13	"	"	—	—	22 56	23 04	1
14630	6093	16 141	-22 52	"	"	—	—	23 11	23 17	2
14631	6333	17 162	-18 28	"	"	—	—	23 20 ₁₃	23 32 ₁₀	1
	K.A. 109	17 425	-00 11	"	"	—	—	23 35 ₅	23 47 ₁	1
14632	6235	16 504	-22 06	"	"	—	—	23 50	00 14	2
14633	6284	17 015	-21 41	"	"	—	—	00 16 ₀₀	00 38	1
14634	6333	17 162	-18 28	"	"	—	—	00 34 ₀₀	00 42	2
14635	6444	18 043	-25 01	"	"	—	—	00 45	01 05	1
14636	6636	18 325	-23 58	"	"	—	—	01 08	01 12	2

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
					<i>focused on 13.4</i>
21:25	00 26E		good!		
21:27	00 18E		"		
21:29	00 42E		superb!		
21:31	00 19E		"		<i>unguided</i>
21:33	01 56W		"		<i>* Focused on a Sep.</i>
21:35	2 10W		"		
21:37	0 14E		"		<i>No guiding</i>
21:39	0 27W		"		<i>such as this! HSN</i>
21:41	1 31W		"		<i>"It is a pleasure to work on a night"</i>
21:43			"		
21:45	01 05W		"		
21:47	03 18N		"		
21:49	2 21W		"		<i>* focused on 14.0</i>
21:51	12 20W		"		
21:53	01 55W		"		
21:55	01 33W		"		

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS										
01 21	01 57W		Good!		205 trail in dec.										
01 4	03 01W				$01^h 33^m 20^s - 10^{\text{th}}$ mag. meteor seen pointing										
01 42	03 52W		Fair		eye piece ← focused on 7 deg										
02 14	03 22W		"												
02 17	02 14W														
02 17	03 03W														
02 17	03 21W				No guiding										
02 17	01 21W				" "										
02 17	02 30W														
					<table style="margin-left: auto; margin-right: auto;"> <tr> <td>MC</td> <td>SC</td> <td>MTW</td> <td>STW</td> <td></td> </tr> <tr> <td>+23^s</td> <td>-66^s</td> <td>+15^s</td> <td>-4^m</td> <td>July 10</td> </tr> </table>	MC	SC	MTW	STW		+23 ^s	-66 ^s	+15 ^s	-4 ^m	July 10
MC	SC	MTW	STW												
+23 ^s	-66 ^s	+15 ^s	-4 ^m	July 10											

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Date Saturday July 10-11 1948 N-0 / H Julian Day.....

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
14646	HD 156002	17 10.0	+26 56	E-12	E-103 _a	0.08	28.0	22 26	23 14	4
14647	HD 166914	18 07.7	+25 21		"	"	28.0	23 20	00 08	1
14648	HD 201346	21 03.9	+28 14		"	"	28.0	00 17	01 15	2
14649	AG 11233	22 19.2	+28 29		"	"	28.0	01 18	03 00	3
14650	HD 21638	22 46.45	15		"	"	28.0	03 06	03 15	+
14651	HD 212750	22 21.2	+28 02		"	"	28.0	03 20	03 58	-

Focus Test

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Date	REMARKS
1:5		+33 04	0	8.42 K ₀	1-1-1	AG 35. ^{2.} Sky very unstable until about 12:30 clouded over at 1:40
		CTB	6/4			Slide mount not opened for last two comparisons 1 P.H. loaded in refrigerator out on microscope. Slide mounted from - center mount to violet! July 14/48 m.c. 55. $\frac{M.P.}{5}$ $\frac{M.P.}{5}$ +16 -61 +15 -5.3

Date Wednesday July 14-15/48 O/Ga Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Star Angle End
14656	HD 142243	15 48.4	+29 13	T-12	F-103a	2.7 1008	26.0	20 47	21 59	3
14657	HD 156563	17 13.2	+25 08	"	"	"	25.7	22 04	23 38	4
14658	AF 7364	18 51.7	+26 52	"	"	"	25.5	23 43	01 19	5
14659	HD 196045	20 31.4	+28 52	"	"	"	25.2	01 20	02 52	6
14660	HD 214023	22 30.4	+30 17	"	"	"	25.2	02 59	03 49	7
					OTB		35.1			

Focus 12.995

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comparison	REMARKS
11:27	1 23 W	+29 03	0	8.76 K ₂	1-1-1	13 25 two stars!
11:33	1 37 W	+25 05	0	8.91 G ₅	1-1-1	" strong
11:39	1 47 W	+26 55	0	8.76 K ₀	1-1-1	" fine
11:45	1 53 W	+29 06	0	8.80 K ₀	1-1-1	" strong!
11:51	2 01 W	+30 31	1-0	8.40 K ₂	1-1-1	" strong!
						Focus: center of field 3.5H lens returned to refrigerator in ad. cabinet box - 4 plates in ground box rest on microscope

Date *June 15-16 1948* 3 0

Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Bear Angle End
14651	HD 153598	16 579	+27 28	1-122	0-1000	400	25.2	21 08	22 26	15
14652	HD 163077	17 492	+25 00	"	"	"	25.1	23 34	04 38	105 H
14653	HD 183037	19 312	+29 33	"	"	"	29.7	50 54	01 44	10
14654	HD 200177	20 538	-25 50	"	"	"	24.5	01 50	03 10	10
14655	HD 212780	22 5.0	+29 20	"	"	"	24.5	03 15	23 47	105 H
	Focus Test				OTB		24.5			

Latitude by 15/48 Wm. De - Approx 60 minutes show M13 through
 telescope in moon and water through star telescope. Weather
 clouds generally increasing with moon present until completely
 overcast with frequent lightning by 22 30 hours EST.

Focus 12.476

Clouds, trace of mist, clarity decreasing

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp.	REMARKS
0.11	1 45 W	+27 25	0	8.59 K ₂	1-1-1	11.0 - 14.00 fine
0.12	2 05 W	+25 31	0	8.54 K ₂	1-1-1	" 1.00 fine
0.13	1 33 W	+29 40	0	8.56 G ₅	1-1-1	" 1.00 fine
0.14	1 27 W	+26 10	0	8.82 K ₂	1-1-1	" 1.00 fine
0.15	2 46 W	+30 26	0	7.81 G ₀	1-1-1	" 1.00 fine
					6/5	fine

2 P.M. faded - used for in equator

91.00000000

July 16/76

+13

-57

+16.3

-0.3

Focus 12.976

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	comp.	REMARKS
	W	+24° 58'	0	8.77 G ₀	1-1-1	AG 85
	OTB					Cloud down 2235 down to unobservable light
						1. P. 100000 plates used
						<div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;"> <p>July 19/48</p> </div> <div style="text-align: center;"> <p>m.c. +09</p> </div> <div style="text-align: center;"> <p>S₀ -53</p> </div> <div style="text-align: center;"> <p><u>m.t.u.</u> +14</p> </div> <div style="text-align: center;"> <p><u>S.T.U.</u> -03</p> </div> </div>

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	INSTRUMENT : OBSERVER	AG	REMARKS
11 ^h 40	38° 36'	0	0.42	G5	1-1-1	AG 25	Clouds nearby, none
1 ^h 01	+28° 45'	0-	2.70	G0	1-1-1	AG 25	Looks like star for a 20 galon. 17th mag. 2nd & 3rd field covered, ok. 10-15 with 2400.
1 30 W	+25° 00'	0-	3.05	M0	1-1-1	AG 25	
1 41 W	29.47	0	1.88	G0	1-1-1	AG 25	IN A CLAMP - LENS WITH STRONG ATTACHED. THE SCREW WAS SCREWED. WILL PROBABLY HAVE TO BE DETACHED FROM INSTRUMENT TO BE RETURNED.
1 44 W	45.28	0	2.10	G0	1-1-1	AG 25	HAZE; CLOUDS
1 48 W	29.23	0	3.22	K0	1-1-1	AG 20	on string
	P.T.B.				6/4		See 12-375 2/16/61

S.P.H. LENS IN SAFER.
H. on M.

July 31

M2	CC	M7W	37W
+2 ²	-12 ²	+15 ²	-1 ²

4 June 17, 1976
 Clearing after 2100

142

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
19:50	141	+27 00	0	8.72 K0 1-1-1	
20:00	143	+27 55	1-0	8.85 G5 1-1-1	Clouds 2340-2355 faint power interruption at 2004
20:10	143	+28 31	0	8.5 Bm 1-1-1	fall of light clouds 2117-22 2300 J.T. FAILED. DRIFT BEHIND 23 50 00 D.T.B. 6/1 delay in start of photo & clouds hit clouds predicted

3 300 h...
 H. ex H.

July 24 1976
 MC SC MTW STW
 11 26° 19° 10°

Date *Lat July 11-28 1749/4-5a/10* Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
14676	HD 168716	18 17.3	+25 39	1-12	Emulsion	100g	21.1	21 42	22 22	
14677	HD 169245	18 30.0	+26 10	"	"	"	21.0	22 39	23 15	
14678	PG 12753	17 53.7	+29 37	"	"	"	21.0	21 57	01 05	
14679	PG 11790	20 55.7	+32 26	"	"	"	21.0	21 10	02 34	
14680	HD 11567	22 23.2	+28 11	"	"	"	20.8	02 29	03 33	
14681	HD 11730	23 12.1	+23 57	"	"	"	20.7	03 17	03 55	
		From Table					20.7			
	<p>about 80 visitors were shown ϵ Cor Bor and M13 through the 74" telescope and Jupiter through horizontal telescope and 4" on lawn.</p>									

100-1000 100-1000 100-1000 100-1000 100-1000

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp	REMARKS
2:15	7.36 W	+26° 40'	1	8.62 G ₀	1-1-1	AG 25
2:30	1.19 W	+26 12	1	8.91 G ₀	1-1-1	AG 25 too strong!
2:45	5.7 W	+29 44	1	8.97 G ₀	1-1-1	AG 25 too strong stopped for about 2' course then
2:55	2.0 W	-19 03	1-0	8.95 G ₀	1-1-1	AG 25 too strong started again that is all.
3:10	5.5 W	48 24	1	8.70 K ₀	1-1-1	AG 25 too strong
3:15	3.4 W	-19 0	1-2	8.15 K ₀	1-1-1	AG 25 too strong Five stars called too strong
			OTB			5/4
						1.54 cond. 0.8 - 0.9 magnitude lost on mirror.
						Shut down to witness shell water could not start until some second but once started by hand picture substantially -
						July 26/48 m T.W. -5° ST.W. 0°

Date *Wed July 23 1908* *W/O - O* Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
14602	HD 150 859	15 ^h 53 ^m 5	116° 09'	I-12	1424 D	21"	435.0	00 38	01 33	
14603	HD 165 730	18 ^h 06 ^m 0	+27° 57'	"	"	"	437.1	01 45	02 17	
14604	HD 187 718	03 ^h 18 ^m 5	+26° 55'	"	"	"	435.0	02 00	02 15	
14605	HD 191 211	10 ^h 12 ^m 4	+19 48'	"	"	"	435.2	00 16	01 24	
14676	HD 305 297	04 ^h 28 ^m 10	+27 10'	"	"	"	435.0	01 26	02 37	
14677	HD 315 732	23 ^h 32 ^m 11	+19 11'	"	"	"	435.0	02 33	03 48	
14678	HD 124 095	13 ^h 55 ^m 27	+27 11'	"	"	"	435.0	03 51	04 15	
"	Extra Test						45.0			

Ending Time
E.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
1 ^h 37	-25° 06'	10+	B.57 KO 1-1-1	AG25 ^s strong
0 ^h 55	+27° 58'	1-	B.49 KO 1-1-1	" fine
1 ^h 31 W	+27° 28'	1	B.91 KO 1-1-1	" too strong
1 ^h 19 W	+28° 31'	1	B.73 K ₂ 1-1-1	" too strong
1 ^h 08 W	+27° 22'	1	B.89 K ₂ 1-1-1	" fine
1 ^h 03 W	+27° 27'	1-	B.93 K ₂ 1-1-1	" strong
1 ^h 23 W	+28° 37'	2	B.75 K ₂ 1-1-1	" too strong

OTB

6/4

focus ok

I.P.H. loaded + " magnify

MC	SC	MTW	STW
-7 ^s	-37 ^s	-8 ^s	+0.1 ^m

Ending Time
E.S.T.Hour Angle
End

Declination

Seeing

Ptg. Mag.

Comp.

REMARKS

21.8

01 15W

+24 56

0-1

8.85 K5

1-1-1

AG 25

focus left ab 12.996

hazy at sunset

23.00

01 25W

+25 00

0-1

8.78 K2

1-1-1

double - south preceding

30.0

01 30W

+28 35

0-1

8.69 K0

1-1-1

"

3.0

1 59W

+29 14

0-1

8.83 G0

1-1-1

"

6.0

2 22W

+29 08

0-1

8.82 G5

1-1-1

"

12.0

0 55W

+28 33

1

8.60 G0

1-1-1

"

hazy sunset

14.0

1 00W

+28 45

1

8.50 K0

1-1-1

"

O.T.B

6/4

4 P.M. 200.00 + 4 in open box

157

Date Monday Aug 23/48 De 16a Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
14719	HD 151369	16 41.9	-26 13	I-12	F 132a0	^{Act} .008	+22.0	20 32	21 32	
-220	AG 9585	19 02.2	-28 37	"	"	"	+21.9	22 50	23 42	16W
14721	HD 193287	20 01.6	+27 51	"	"	"	+21.9	22 47	00 37	12W
14722	" 190585	20 02.0	+27 51	"	"	"	+22.0	00 39	01 31	11W
14723	AG 13070	21 54.7	+25 10	"	"	"	+22.0	01 35	02 29	13W
14724	AG 13865	22 57.4	+27 16	"	"	"	+22.0	02 34	0 29	11W
							+22.0			

FOCUS LEFT AT 12.996

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
2:11	1 16W	+26 08	1-2	8.84 G _s	1-1-1 AC 25 Increasing cloudiness Field of view by 2 32. fine
2:15	1 06W	+25 36	1-2	8.90 G _o	1-1-1 " Shining resumed at 2250 fine
2:15	1 02W	+27 59	1-2	7.95 M _o	1-1-1 fine
2:31	1 56W	+27 58	1-2	8.16 K _s	1-1-1 large from 0100 + clouds fine
2:34	1 02W	+28 23	2	8.89 G _o	1-1-1 2nd large fine
2:44	0 52W	+27 30	1-2	8.93 G _o	1-1-1 (sid comp. mittie), slide found at 0329 but clouds obscured just star at about 0315
	GTB			5/5	clouds out - lost down 2210 fine
					Heat on mirror 200 level +0
					Aug 3/18
					M.S. -14°
					S.C. -28°
					M.T.U. -11°
					J.F.W. 0.0

* Overhead

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

Plate No.	Object	R.A. 1900 <u>30</u>	Declination 1900 <u>50</u>	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Star Angle and
14725	NGC 6218	16 44.6	-31 52	Newt.	E-103D		—	21 44	21 54	SW
14726 *	" 6093	16 14.1	-22 52	"	"	E 103 E But mistake	-	22 03	22 09	SW
14727	" 6353	17 16.2	-18 28	"	"		-	22 12	22 20	SW
14728	I.C. 1276	18 08.4	-07 15	"	"		-	22 25	22 45	SW
14729	NGC 6838	19 51.3	18 38	"	"		-	22 59	23 03	SW
14730	"	"	"	"	"		-	23 08	23 12	SW
14731 *	" 6626	18 21.5	-24 54	"	"	-	23 19	23 21	SW	
14732	" 6626	18 21.5	-24 54	"	"	-	23 22	23 28	SW	
14733	" 6544	18 04.3	-25 01	"	"	-	23 30	23 50	SW	
14734	" 6656	18 33.3	-23 58	"	"	-	23 53	23 57	SW	
14735	" 6934	19 31.7	-01 14	"	"	-	00 08	00 20	SW	
14736	" 6835	19 51.3	18 38	"	"	-	00 25	00 29	SW	
14737	" 6779	19 14.6	30 35	"	"	-	00 35	00 39	SW	
14738	6981	20 50.7	-12 44	"	"	-	00 45	01 01	SW	
14739	7089	21 30.9	-01 03	"	"	-	01 04	01 06	SW	
14740	6864	20 03.2	-22 04	"	"	-	01 07	01 25	SW	

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
					focused on M ship
21:04	1 42 W		"moderate"		clouds, unguided on star
21:08	2 27 W				light cloud
21:12	1 36 W				fixed stops while mounting this plate
21:15	1 10 W				light clouds, more clouds.
21:20	0 16 E		good		
21:25	0 06 E				
21:30	1 32 W				
21:35	37 W		poor		
21:42	19 W				
21:47	55 W				focused on E Sept.
21:52	21 W				No guiding
21:57	11 W				No "
22:02	57 W				
22:07	41 W				
22:12	07 W				
22:17	55 W				20 sec. trail on S

Date Sunday, Aug. 3, 1958 5-1-110 Julian Day

Plate No.	Object	R.A. 1900 ⁵⁰	Declination 1900 ⁵⁰	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.
14741	NGC 6864 Kapteyn 136	20 05.2	-22 04	Nova	F103	-	-	01 27 ²²	01 33 ²⁵
		20 12.8	-15 01	"	"	-	-	01 33 ²⁵	01 41 ³²
14742	NGC 6981	20 30.7	-12 44	"	"	-	-	01 45	01 59
14743	" 6434	20 31.7	-07 14	"	"	-	-	02 07	02 19
14744	" 6838	19 51.3	+18 38	"	"	-	-	02 22	02 28
14745	" 7099	21 37.5	-23 25	"	"	-	-	02 32	02 43
14746	" "	"	"	"	"	-	-	02 44	02 48
	Kapteyn 137	21 12.8	-14 58	"	"	-	-	02 50 ¹⁸	02 59 ²⁵
14747	" 7492	25 00.1	-16 34	"	"	-	-	03 00	03 18

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
01:30	2 05 W				
01:40	2 01 W				
01:50	1 42 W				focused on E Dipole
02:00	2 21 W				
02:10	2 10 W				
02:20	2 00 W				
02:30	1 49 W				
02:40	1 39 W				
02:50	1 29 W				
03:00	1 19 W				
03:10	1 09 W				
03:20	1 00 W				
03:30	0 50 W				
03:40	0 40 W				
03:50	0 30 W				
04:00	0 20 W				
04:10	0 10 W				
04:20	0 00 W				
04:30	0 50 W				
04:40	0 40 W				
04:50	0 30 W				
05:00	0 20 W				
05:10	0 10 W				
05:20	0 00 W				
05:30	0 50 W				
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22:30	0 50 W				
22:40	0 40 W				
22:50	0 30 W				
23:00	0 20 W				
23:10	0 10 W				
23:20	0 00 W				
23:30	0 50 W				
23:40	0 40 W				
23:50	0 30 W				
00:00	0 20 W				

Stage
[Long Range]

20 sec. trail in 8

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

Plate No.	Object	R.A. 1900 50	Declination 1900 50	Instrument	Emulsion	Shut	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Star Angle Incl
14750	NGC 5904	15 16.0	+02 16	Newt	E-103-0	—	—	20 49	20 51	2
14751	" 6218	16 44.6	-01 52	"	"	—	—	20 54	20 56	1
14752	" 6254	16 54.5	-04 02	"	"	-	-	20 58	21 00	2
14753	" 6333	17 16.2	-18 28	"	"	-	-	21 03	21 05	1
14754	" 6336	17 20.7	-17 46	"	"	-	-	21 12	21 24	2
14755	" 6093	16 14.1	-22 52	"	"	-	-	21 27	21 31	1
14756	" 6402	17 35.0	-03 13	"	"	-	—	21 36	21 43	3
14757	" 6235	16 50.4	-22 06	"	"	—	—	21 51.20	22 11	1
14758	IC 1276	18 08.4	-07 15	"	"	—	—	22 15	22 31	2
14759	NGC 6838	19 51.3	18 38	"	"	-	-	22 34	22 37	1
14760	Kepley 89	21 10.4	15 22	"	"	-	-	22 40.30	22 42.24	1
	Kepley 89	"	"	"	"	-	-	22 45.00	22 53	1
	NGC 6934	20 31.7	07 14	"	"	-	-	22 56	23 04	1
14761	" 6626	18 21.5	24 24	"	"	-	-	23 05.30	23 10.00	1
14762	" 6256	18 33.3	23 58	"	"	-	-	23 13.00	23 15.00	1
14763	" 6333	17 16.2	-18 28	"	"	-	-	23 19	23 27	1

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
					focused on 8.0 ph.
20.5	02 19 W		Fair		
20.5	0 55 W				
21.0	0 50 W				
21.0	0 36 W				
21.0	0 47 W				20 sec. dec. trail
21.5	2 01 W				← focused on 3.0 ph.
21.5	0 58 W				
22.0	2 05 W				
22.0	1 57 W				
22.0	0 31 E				
22.0					
22.0					
22.0	0 43 E				
22.0					
22.0	1 27 W				
22.0	2 45 W				

Date Friday Aug 6-7 / 49 S-No-L Julian Day

(cont'd)

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Star Angle East
14764	NGC 6402	17 35.0	-03 13	Newt.	E103a-0	-	-	23 32	23 44	24
14765	" 6581	20 50.7	-12 44	"	"	-	-	23 43 ₀₀	00 01 ₀₀	25
	<i>Kepler</i> 136	20 12.8	-14 01	"	"	-	-	00 06 ₁₅	00 18 ₀₀	
14766	NGC 6717	18 52.1	-22 47	"	"	-	-	00 22	00 38	26
14767	" 6779	19 14.6	+35 05	"	"	-	-	00 46 ₀₀	00 50 ₀₀	27
14768	" 6838	19 51.3	+18 38	"	"	-	-	00 57 ₀₀	01 00 ₀₀	28
14769	" 6934	20 31.7	+07 14	"	"	-	-	01 04	01 12	29
14770	" 7089	21 30.0	-01 03	"	"	-	-	01 15	01 16	30
14771	" 6864	20 03.2	-22 04	"	"	-	-	01 20	01 36	31
14772	" 6581	20 50.7	-12 44	"	"	-	-	01 40	01 54	32
14773	" 7039	21 37.5	-23 25	"	"	-	-	02 01 ₀₀	02 07 ₀₀	33
14774	" 7492	23 05.7	-15 54	"	"	-	-	02 10 ₁₅	02 22 ₀₀	34
	<i>Kepler</i> 130	23 16.6	-14 14	"	"	-	-	02 25 ₀₀	02 37 ₀₀	35
14775	7492	23 05.7	-15 54	"	"	-	-	02 43	03 03	36
14776	7099	21 37.5	-23 25	"	"	-	-	03 08	03 14	37
14777	6838	19 51.3	+18 38	"	"	-	-	03 18 ₃₀	03 21 ₀₀	38

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Altitude	Azimuth	REMARKS
27.4	2 53 W						Refocused on B. Obj.
28.0	0 05 E						No Guiding
28.5	2 31 W						
29.0	2 20 W						
29.5	1 54 W						
30.0	1 25 W						
30.5	0 30 W						
31.0	2 18 W						Some haze
31.5	48 W						"
32.0	1 15 W						Dec trail ← Refocused on B. Obj.
32.5	0 01 W						
33.0	0 05 W						
33.5	0 42 W						Dec trail No Guiding
34.0	0 21 W						Trail forward & backward
34.5	1 14 W						

Ending Time
E.S.T.

Hour Angle
End

Declination

Seeing

Ptg. Mag.

REMARKS

1 25 W

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Date *Lat Aug 7-8 HD 50/0* Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	PH	Star Angle Ecl
14779	AG 3459	18 509	+26 13	"	E 03	S ⁺ 008	+20.5	21 49	22 35		
14780	AG 7949	19 218	+25 21	"	"	"	20.5	22 37	23 20		
14781	AG 11332	20 233	+27 09	"	"	"	20.3	23 24	23 54		
14782	AG 11833	20 462	+28 24	"	"	"	20.4	00 00	00 46		
14783	HD 204923	21 26.7	+25 37	"	"	"	20.0	00 50	01 38	3	
14784	AG 13746	22 06.3	+25 19	"	"	"	20.0	01 41	02 29	4	
14785	AG 13710	23 06.5	+29 55	"	"	"	20.0	02 33	03 41	1	
14786	HD 2315	00 21.9	+25 02	"	"	"	20.0	03 45	04 21	2	
	<i>Expos test</i>						20.0				

About 150 visitors showed up, many with 172
with 74", 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150.

Focus set 12.990





Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	comp	REMARKS
21:55	0° 26" W	+26 18	2+	8.96 G ₅	1-1-1	AG 25
22:00	0 45 W	+25 57	2+	8.98 K ₀	1-1-1	AG 25
22:50	1 17 W	+27 54	2+	G ₅	1-1-1	AG 25 mag pty. not given, reported as 8.7.
23:00	1 47 W	+28 31	2	8.92 K ₀	1-1-1	AG 25
23:05	1 58 W	+25 49	2	8.97 K ₅	1-1-1	AG 25
23:10	1 09 W	25 33	2	8.92 K ₂	1-1-1	AG 25
23:15	1 25 W	+30 10	2	8.78 G ₅	1-1-1	Clouded from 3:15 until 3:30
23:20	1 46 W	-25 17	1-2	8.51 K ₀	1-1-1	AG 25 mag pty. not given, reported as 8.7.
	OTB				6/4	
						4 P.H. loaded, None in box.
						Heat on mirror.
						23:30 faintly visible, but not of interest. Magnitude about 6 to +15. -6.
						Quasar Borealis "magnificent" 11 night - found 2/3 of sky with 172 - 3

Focus set at 12.970

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
21:00	1 02 W	-29 37	1	8.72 G ₀	1-1-1 AG 25
22:00	0 49 W	-27 28	1-2	8.93 K ₀	1-1-1 AG 25
23:00	0 53 W	+29 07	2	8.99 G ₀	1-1-1 AG 25
00:00	0 53 W	+29 50	2+	8.98 K ₀	1-1-1 AG 25
01:00	0 53 W	+26 56	2	8.96 K ₀	1-1-1 AG 25
02:00	0 54 W	+30 04	3	8.90 K ₀	1-1-1 AG 25
03:00	0 54 W	+26 45	2-3	8.96 G ₀	1-1-1 AG 25
04:00	0 56 W	+29 35	2	8.93 G ₀	1-1-1 AG 25 <i>plate in camera relay?</i>
05:00	0 56 W	+26 54	2-3	8.97 K ₀	1-1-1 AG 25 <i>opened window room?</i>
06:00	0 56 W	+30 47	3	8.90 G ₀	1-1-1 AG 25
07:00	0 58 W	+26 49	3	8.92 G ₀	1-1-1 AG 25
08:00	0 59 W	+30 24	3	8.97 K ₀	1-1-1 AG 25
					OTB 4/5
					4th. led to
					out

June 12 1990

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Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
2:20	W 107	28 00	0	8.82 G5	1, 1, 1 
2:27	W 024	25 02	0	8.98 Sc	1, 1, 1 Be long.
2:33	W 185	23 15	1	8.91 K0	1, 1, 1 
2:35		23 12	2	8.82 K0	1, 1, 1 
2:40	0 015	+23 15	1-2	8.59 G5	1-1-1 
2:45	0 4 W	+23 23	2	8.79 K0	1-1-1 AG 25
2:50	0 4 E	+30 28	1-2	8.93 G0	1-1-1 Aurora very active
2:55	0 19 W	+29 41	2	8.79 K0	1-1-1
3:00	0 4 N	+26 45	2-3	8.77 K0	1-1-1
3:05	0 73 W	+27 29	2-3	8.62 G5	1-1-1
			0 TB		64
					3 P.H. Ladder +0
					Head on Mirror
					MC SC MTW STW
					-26' -13' -.1" -.1"

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Date Friday Aug 13-1949 L - Galileo 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
14809	HD 149150	20014	20 34	1-14	E 122 _a	²⁰ .008	+22.0	22 02	22 33	3
14810	" 130749	20014	20 34	"	"	"	21.9	22 45	23 42	4
14811	AG 12135	21026	30 03	"	"	"	21.9	23 45	00 36	1
14812	HD 208547	21026	27 32	"	"	"	22.1	00 39	01 45	
14813	HD 217351 3821	22014	55.0 119	"	"	"	21.9	01 49	02 31	
14814	AG 14185	23323	15 13	"	"	"	21.9	02 35	03 25	11
14815	AG 50E	23323	15 13	"	"	"	22.0	03 30	04 10	
14816	HD 11150	21026	27 32	"	"	"	22.0	04 18	04 37	
"	How test						22.6			

June - 12.990

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About 30 visitors from Kuelph showed
 ring nebula, globular cluster in Dec. with 74
 Dec 55

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp	REMARKS
22:30	0 19 W	30 04	1	2.44 K ₀	1-1-1	AG 25
22:40	0 51 W	29 44	1	2.96 K ₀	1-1-1	" Long range
00:00	0 24 W	30 15	1-2	6.91 G ₅	1-1-1	"
00:10	0 33 W	27 44	1-2	8.89 G ₁	1-1-1	" 2.5m - 1555 - 0110
00:20	0 47 W	+29 48	1-2	8.77 ^{8.4} A ₂	1-1-1	"
00:30	1 00 W	+25 30	1-2	8.89 G ₀	1-1-1	"
00:40	1 15 W	+25 34	2	8.97 G ₀	1-1-1	" Don't bring along clock as
00:50	1 28 W	+22 12	2-3	8.54 G ₅	1-1-1	"
						OTB 88 ✓
						3 PM Local +7
						Aug 14 MC SC MTW STW -30 ^s -7 ^s -1 ^m -2 ^m Pe Feb with 1000 ... from station

Focus 12 990

About 200 microns. Showed 180
 m13, with 74 G with 5 G with
 4" Hd. Pa, D

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Code	REMARKS
22:00	00 51 W	+28 15	2	8.73 G ₀	1-1-1	AG-35
22:05	00 40 W	+27 00	2-3	8.71 K ₅	1-1-1	"
22:10	00 45 W	+26 13	2	8.79 K ₀	1-1-1	"
22:15	00 40 W	+26 20	2	8.80 M ₂	1-1-1	"
22:20	00 55 W	+27 42	2	8.75 K ₁	1-1-1	wrong star - (map labeled incorrectly) looks very faint
22:25	01 35 W	+25 33	2-3	8.93 G ₁	1-1-1	"
22:30	01 33 W	+26 15	2-3	8.51 G ₂	1-1-1	"
22:35	1 00 W	+26 15	2-3	8.63 G ₁	1-1-1	"
22:40	01 32 W	+26 28	2-3	8.87 G	1-1-1	"
22:45	01 40 W	+26 01	3	8.97 K ₁	1-1-1	"
					0715 614	
						data missing 178, loaded 45

Date Sunday Aug 15-16-15 De/L Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.
14821	AG 9109	18 355	+26 06	I-12	E10200	SET .008	+25.3	20 37	21 23
14829	HD 174104	18 418	+27 37	"	"	"	+25.3	21 28	22 06
14829	AG 9950	19 113	+26 09	"	"	"	+25.3	22 10	22 38
14830	AG 10077	19 283	+25 13	"	"	"	+25.2	22 52	23 36
14831	HD 194516	20 458	+28 32	"	"	"	+25.2	23 40	00 00
14832	" 208437	21 512	25 57	"	"	"	+25.2	00 31	01 17
14833	AG 13468	22 312	29 35	"	"	"	+25.2	01 18	02 12
14834	HD 219338	23 114	30 07	"	"	"	+25.2	02 16	02 53
14835	" 2834	00 186	21 06	"	"	"	+25.2	03 08	03 55
14836	" 11650	01 492	27 20	"	"	"	+25.2	04 02	04 34
	Iron Salt								
					OTB				

5000 72.990

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Observed	to central	REMARKS								
22	06W	+26 09	1-2	8.56 G ₀	1-1-1	AG 25	too strong								
23	11W	+28 40	2	8.72 G ₅	1-1-1	"	" "								
23	045W	+26 15	2-3	8.84 K ₀	1-1-1	"	" "								
23	26W	+25 19	2-3	8.99 G ₀	1-1-1	"	sensitometer spots spoiled! strong								
23	53W	+28 49	2-1	8.83 K ₀	1-1-1	"	strong								
23	40W	26 00	2	8.66 G ₅	1-1-1	"	too strong								
23	100W	29 40	2	8.55 G ₀	1-1-1	"	" "								
23	120W	30 23	2	8.82 K ₀	1-1-1	"	" "								
23	500W	27 22	2	9.92 G ₅	1-1-1	"	Star not circled. too strong.								
23	033W	27 35	2	8.42 G ₅	1-1-1	"	too strong								
						6/4	focus - central to which								
						Aug 17	<table border="0"> <tr> <td>MC</td> <td>50</td> <td>MTW</td> <td>56</td> </tr> <tr> <td>-33°</td> <td>-5'</td> <td>0'</td> <td>0'</td> </tr> </table>	MC	50	MTW	56	-33°	-5'	0'	0'
MC	50	MTW	56												
-33°	-5'	0'	0'												

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Date *Monday Aug 17 1918* O/Ga Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.
14837	HD 154183	16 38.8	25 44	1-12	E-10300	^{SW} .008	+26.3	20 10	21 05
14838	HD 180316	19 11.0	27 46	"	"	"	26.3	21 12.2	21 22.1
14839	HD 171164	18 28.1	28 48	"	"	"	26.2	21 25	22 21
14840	HD 180233	19 36.0	26 57	"	"	"	26.2	22 24	23 10
14841	HD 195834	20 26.6	28 43	"	"	"	26.2	23 13	23 59
14842	HD 202365	21 10.2	27 45	"	"	"	26.1	00 09	00 55
14843	HD 211407	22 11.7	25 47	"	"	"	26.1	00 59	01 52
✓ 14844	HD 221176	23 24.6	23 57	"	"	"	26.1	02 01	02 57
14845	HD 1996	02 18.2	25 51	"	"	"	26.1	02 34	03 11
14846	HD 5650	00 53.1	18 15	"	"	"	26.0	03 20	03 54
14847	HD 2229	01 26.1	20 26	"	"	"	26.0	03 59	04 45
	<i>Focus test</i>						26.0		

Focus 12.930

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.			REMARKS
7:20	36 W	+25 43	1	8.79 G ₀	1-1-1	AG 25	l. weak
7:25	30 E	+27 53	1	6.51 B ₅	1-1-1	Binary	"come focused" l. weak
7:27	15 W	+28 51	1	8.91 K ₂	1-1-1	AG 25	good
7:30	54 W	+27 04	1-2	8.93 K ₀	1-1-1	AG 25	come focused! good
7:32	53 W	+27 52	2	8.82 K ₂	1-1-1	AG 25	l. weak
7:37	1 07 W	+27 53	1-2	8.47 K ₀	1-1-1	AG 25	good
7:40	1 07 W	+26 00	1	8.77 G ₅	1-1-1	"	l. weak
7:42	2 21 W	+30 07	1-2	8.48 K ₀	1-1-1	"	good
7:45	2 01 W	+36 08	1	8.69 G ₅	1-1-1	"	fine
7:47	2 01 W	+36 51	2-1	8.55 K ₀	1-1-1	"	good
7:50	2 02 W	+36 33	2	8.96 K ₀	1-1-1	"	fine

OTA 5/4

focus O.K.

184 loaded +0

Cloudy clearing just at dusk Aug. 186

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Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp.	REMARKS
11:13	W	+30 07	17	8.69	K ₀ 1-1-1	too strong
11:18	W	+29 52	27	6.51	B ₀ 1-1-1	too strong
11:22	W	+29 01	25	8.33	G ₀ 1-1-1	too strong
11:27	W	+26 57	25	8.84	G ₀ 1-1-1	too strong
11:31	W	+26 21	25	8.80	K ₀ 1-1-1	fine
11:35	W	29 20	25	8.91	M ₀ 1-1-1	fine
11:39	W	27 11	25	8.89	K ₀ 1-1-1	too strong
11:43	W	25 13	25	8.70	K ₀ 1-	fine
		O.T.B.			6/4	from O.K.
						1 P.H. loaded +
						NEW BOX OF PLATES NEEDED
						MC SC MTW STW
						Aug 20 -38' +2' .0 ^m .0 ^m

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp.	focus 12.990	REMARKS
20 41	01 02 W	+26 03	2	8.84 K ₀	1-1-1	A.G. 25	noisy
2 38	01 49 W	+29 32	2+	8.82 K ₀	1-1-1	A.G. 25	
2 00	02 20 W	+27 51	2	6.51 B ₀	1-1-1	Binary	
2 00	02 11 W	+26 29	2-3	8.76 K ₂	1-1-1	A.G. 25	
2 05	02 11 W	+26 22	3	8.93 K ₀	1-1-1	A.G. 25	wrong star? (wrong star had been marked on chart)
2 05	02 57 W	+25 22	3-	8.85 K ₀	1-1-1	AG 25	
2 00	03 17 W	+19 23	3	8.39 K ₂	1-1-1	AG 25	
2 00	03 41 W	+18 55	3	8.83 G ₀	1-1-1	AG 25	negative
2 00	03 47 W	+15 31	3	8.86 K ₂	1-1-1	AG 25	negative
2 00	03 22 W	+15 21	3+	8.79 M ₂	1-1-1	AG 25	too faint
2 00	03 28 W	+29 40	3+	3.97 G ₅	1-1-1	AG 25	too faint
2 00	03 11 W	+20 02	3+	8.82 G ₀	1-1-1	AG 25	too faint
2 00	03 11 W	+23 38	3+	8.76 K ₀	1-1-1	AG 25	guiding
2 00	03 37 E	+22 45	3	6.56 A ₂	1-1-1	Binary	staring
	O.T. B				6/5		2 P.H. needed + 0. New box of plates focus O.H. required

Date Sat Aug 22, 1948 9:48, 6:50 W. Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Star Angle Ecl.
14870	AR 9659	19 06.6	28 11	I-12E	E 10310	50 ¹ 50 ⁸	25.8	22 10	22 46	
14871	HD 190316	19 11.0	27 46	"	"	"	26.0	22 49	23 31	
14872	AG 11546	20 35.4	28 50	"	"	"	26.0	23 24	23 34	
14873	AG 15454 BD+30°+417	21 18.3	10 16	"	"	"	26.0	23 37	00 07	
14874	229994	22 02.2	27 51	"	"	"	25.8	00 09	00 49	
14875	AG 13068	22 31.2	26 35	"	"	"	25.9	00 52	01 30	
14876	223501	23 42.6	26 37	"	"	"	25.9	01 48	02 30	
14877	219000	25 2	25 20	"	"	"	25.9	02 33	03 21	
14878	AG 71001	25 43	25 43	"	"	"	25.7	03 24	04 46	
	<i>Home Sheet</i>									

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

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.			REMARKS
21:41	E3 14	1-2	8.93	G ₀	1-1-1	AG 25	too strong
22:00	W 427 51	2-3	6.51	B ₅	1-1-1	Binary	too strong
22:14	W 43 00	2	8.73	G ₀	1-1-1	AG 25	very strong
22:27	N 430 28	2-3	8.91	K ₀	1-1-1	"	weak
22:42	W 28 54	2-3	8.93	K ₀	1-1-1	"	} both numbered 14875
22:55	W 29 50	2-3	8.95	G ₀	1-1-1	"	
23:00	W 26 53	2-3	8.97	K ₀	1-1-1	"	too strong
23:05	W 28 39	2-3	8.93	K ₀	1-1-1	"	fine
23:11	W		8.99	K ₀			fine
	G.T.B				3/4		no comparison spectrum! " clouds over nearly all of obj focus OK
							3 P.H. LENSED +

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

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Star Angle End
14879	HD 160678	17 36.2	+29 18	"	E-10360	28	+27.3	19 51	20 31	1
14880	HD 167 478	18 20.2	+26 17	"	"	"	+27.3	20 34	21 02	2
14881	HD 175 036	18 48.4	+26 24	"	"	"	+27.2	21 05	21 33	3
14882	HD 182 218	19 18.5	+26 58	"	"	"	+27.2	21 35	22 10	4
14883	HD 188 015	19 48.0	+27 51	"	"	"	+27.2	22 11	22 37	5
14884	AG 10274	20 02.0	+28 50	"	"	"	+27.2	22 42	23 04	6
14885	HD 197440	19 52.1	+27 07	"	"	"	+27.2	23 07	23 19	7
14886	HD 201 240	21 07.2	+25 55	"	"	"	+27.2	23 31	23 51	8
14887	HD 204 934	21 26.8	+27 56	"	"	"	+27.2	23 55	00 15	9
14888	HD 209457	21 58.4	+29 12	"	"	"	+27.0	00 23	00 47	10
14889	" 210158	22 08.7	+29 09	"	"	"	+27.0	00 52	01 10	11
14890	" 212 576	22 46.6	+29 10	"	"	"	+27.0	01 14	01 30	12
14891	" 217 764	22 57.8	+28 51	"	"	"	+27.0	01 47	02 27	13
14892	" 20 37	00 20.0	+29 13	"	"	"	+27.0	02 31	02 53	14
14893	" 2766	00 33.2	+29 19	"	"	"	+27.0	02 59	03 19	15
14894	" 5411	00 50.6	+29 39	"	"	"	+27.0	03 25	03 46	16

Ficus - 12.790

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
12:15	0 40 W	+27 15	1-2	8.72 K ₀	1-1-1	hazy. too strong
12:20	0 37 W	+26 18	2-3	8.84 K ₀	1-1-1	fine
12:25	0 35 W	+25 23	2-3	8.77 G ₀	1-1-1	strong
12:30	0 33 W	+27 00	2+	8.91 K ₀	1-1-1	strong
12:35	0 35 W	+27 57	3	8.93 G ₋	1-1-1	too strong
12:40	0 42 W	+25 44	3+	8.97 G ₅	1-1-1	(Declination does not agree with given value, find it is correct star)
12:45	0 21 W	+27 18	3+	8.91 K ₀	1-1-1	fine
12:50	0 30 W	+26 36	3+	8.92 G ₅	1-1-1	very strong
12:55	0 34 W	+28 08	3+	8.89 K ₀	1-1-1	strong
1:00	0 35 W	+29 26	3	8.99 K ₅	1-1-1	strong
1:05	0 45 W	+25 13	3	8.75 K ₀	1-1-1	guiding very strong
1:10	0 30 W	+28 25	3	8.47 K ₀	1-1-1	fine
1:15	1 16 W	+29 06	2-2	8.89 G ₀	1-1-1	large very faint labelled too weak
1:20	0 20 W	+29 49	3	8.86 G ₋	1-1-1	strong
1:25	0 30 W	+29 43	3	8.91 G ₀	1-1-1	too strong
1:30	0 42 W	+28 53	3	8.93 K ₀	1-1-1	strong

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
00	36W	+27 15	3	8.89 K ₂ 1-1-1	AG 25 guiding! good
00	55W	+29 01	3	8.95 G ₅ 1-1-1	" too strong
01	00W	+25 47	3	8.33 G ₅ 1-1-1	" w/ strong
			O.T. E		6/4 focus - central terminal 4 2' 10" 10" 10"
					10/23/45 -11 -105 +16 101

195

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

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	per Angle End
14898	H.D. 209500	21 58.8	+22 17	I-12 1/2"	E-103.0	0.028	+27.0°C	00 27	01 15	-
14899	218610	23 04.3	26 23	"	"	"	27.1	01 18	02 00 * gone	1
14900	598 00 05.3	28 06		"	"	"	27.1	02 03	03 17	2
	<i>Focus Test</i>									

scattered cirrus clouds, slowly clearing
and in daylight.

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp.	REMARKS
01.30	1 06 W	+29 30	1-2	8.72 K ₅	1-1-1	focus 12.990
02.00	1 46 W	26 37	1-2	8.83 K ₀	1-1-1	
03.17	1 02 W	28 21	0-1	8.79 M ₂	1-1-1	Clouds for practically all of exp.
		O.T.B.			6/4	4 P.H. sealed + 3?

197

Date Tuesday Aug 24-25 1948 0.00/0.00 Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Star Angle End
14901	HD 167132	18 08.8	+25 37	7-12	E-103a 0	5.2" 8	+29.3	20 30	20 48	35.4
14902	HD 186860	19 41.8	+30 00	"	"	"	+29.2	21 19	21 37	11E
14903	HD 187162	19 43.4	+28 14	"	"	"	+29.2	21 40	22 06	11
14904	HD 187280	19 44.1	+28 04	"	"	"	+29.2	22 09	22 31	11
14905	HD 191445	20 04.8	+28 24	"	"	"	+29.2	22 36	23 06	11
14906	AG 12015	20 57.5	+26 51	"	"	"	+29.1	23 10	23 38	11
14907	AG 12677	21 30.9	+27 34	"	"	"	+29.0	23 38	24 17	11
14908	HD 212287	22 18.1	+30 15	"	"	"	+29.0	00 16	00 42	11
14909	AG 13518	22 27.7	+25 04	"	"	"	+29.0	00 48	01 07	11
14910	HD 213857	22 29.3	+29 14	"	"	"	+29.0	01 16	01 26	11
14911	HD 217230	22 54.2	+26 57	"	"	"	+29.0	01 29	01 41	11
14912	HD 223094	23 41.5	+22 07	"	"	"	+29.0	01 44	01 54	11
14913	HD 2713	20 25.6	+27 34	"	"	"	+29.0	01 57	02 11	11
14914	HD 5717	20 55.6	+28 29	"	"	"	+29.1	02 14	02 30	11
14915	HD 6274	20 58.6	+26 03	"	"	"	+29.0	02 36	02 52	11
14916	HD 9632	21 19.7	+28 36	"	"	"	+29.0	02 55	03 11	11

Focus set

12.975

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	alt. az.	air mass	REMARKS
20 56	32 W	+25 38	3	8.54 K ₀	1-1-1	AG 25	guiding! good Dec setting wasn't work when
20 57	11 E	+30 07	3+	8.95 M ₀	1-1-1	"	second star broken. Not 11.00000
20 58	16 N	+28 21	3	8.75 G ₅	1-1-1	"	from bridge (Not Numbered) 11.00000
20 59	44 W	+28 12	3	8.79 K ₀	1-1-1	"	11.00000
21 00	55 W	+28 32	2	8.88 K ₅	1-1-1	"	11.00000
21 01	25 N	+27 04	3	8.91 G ₀	1-1-1	"	guiding! good
21 02	31 W	+27 48	2	8.79 G ₀	1-1-1	"	alt. az. slow guiding! good
21 03	21 W	+30 29	2	8.68 K ₂	1-1-1	"	fine
21 04	33 W	+25 19	3	8.77 K ₀	1-1-1	"	strong
21 05	50 W	+27 28	3+	8.77 K ₀	1-1-1	"	guiding!!! weak
21 06	40 W	+27 14	3+	8.48 K ₀	1-1-1	"	fine
21 07	26 W	+28 25	3+	8.30 K ₂	1-1-1	"	guiding! good
21 08	22 E	+27 50	3+	8.60 G ₀	1-1-1	"	guiding! fine
21 09	13 E	+27 44	3+	8.88 G ₅	1-1-1	"	fine
21 10	12 E	+26 18	3-	8.77 G ₀	1-1-1	"	guiding! fine
21 11	26 E	+28 50	4	8.88 K ₀	1-1-1	"	fine

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
03:30	07 E	+28 30	4	8.88 G ₅	1-1-1 AG 25 ^{too strong} operation of slide in PH #3 rough
03:41	05 E	+30 30+	4	8.72 G ₅	1-1-1 " PH #3 removed from duty fine
03:45		+28 37	4	8.85 G ₅	1-1-1 " fine
03:53	18 W	+29 30	4	8.93 ^{8.0} A ₃ G ₅	1-1-1 " Wrong star identified on program. too strong
04:00	18 W	+30 05	3+	8.44 -	1-1-1 " Wrong star strong
04:00	37 W ^E	+32 45	3+	6.56 A _L	1-1-1 Binary strong
	OT E				6/5 focus OK
					3 PH loaded
					Two boxes of plates

Date Wednesday Aug 25-26/45 De W Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Star Angle End
14923	HD 145394	16 055	+27 14	I-12	I-340	^{Spr} .008	+33.4	20 35	20 31	
14924	" 125038	18 12.8	+27 39	"	"	"	+33.2	20 51	21 05	
14925	" 197466	19 450	+29 38	"	"	"	+33.1	22 05	22 33	
14926	HD 190815 AG 10827	20 01.7 20 01.5	+29 25 +29 26	"	"	"	+33.1	22 37	22 55	
14927	HD 191590	20 054	+29 26	"	"	"	+33.1	23 01	23 19	
14928	" 192257	20 09.0	+29 56	"	"	"	+33.1	23 24	23 42	
14929	AG 12152	21 034	+29 58	"	"	"	+33.0	23 46	00 04	
14930	HD 201626	21 057	+26 13	"	"	"	33.3	00 07	00 25	
14931	215505	22 520	27 24	"	"	"	33.3	00 31	01 11	
14932	LG 13910	23 23.3	29 58	"	"	"	33.3	01 29	01 29	
14933	218454	23 00.1	29 54	"	"	"	33.4	01 31	01 44	
14934	220286	23 17.5	28 53	"	"	"	33.3	01 52	02 14	
14935	AG 221 2311	00 21.8 00 21.7	+30 25 +30 21	"	"	"	33.3	02 25	02 46	
14936	242200	00 51.3	20 48	"	"	"	33.3	02 50	03 12	
14937	73000(102)	16 55		"	"	"	33.3	02 15	03 36	
14938	111200	01 44.3	25 15	"	"	"	33.3	03 40	04 02	

Focus 12.925mm

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp	REMARKS
20	02 22W	+27 07	2-3	8.93 K ₂	1-1-1	AG 25 In setting up a kind of feet exposure
21	00 25W	+27 06	2-3	8.23 G ₀	1-1-1	" exposure made by the long before this
22	00 46W	+29 46	2-3	8.98 K ₀	1-1-1	" exposure started by the long with
22	00 51W	+29 34	3	8.84 G ₀ ^A	1-1-1	" wrong star
23	01 12W	+29 34	3	8.84 K ₂	1-1-1	" R.A. movement very off
23	01 31W	+25 05	3	8.86 M ₃	1-1-1	"
00	00 58W	+30 10	3	8.83 G ₀	1-1-1	"
00	01 17W	+26 22	3	8.85 K ₂	1-1-1	"
01	03 30W	27 20	3	8.91 K ₀	1-1-1	"
02	03 32W	30 11	3	8.98 G ₀	1-1-1	"
01	03 25W	30 10	3	8.47 K ₀	1-1-1	"
01	03 11W	29 07	3	8.96 G ₀	1-1-1	"
02	03 42W	30 10	3	8.90 G ₀	1-1-1	Wrong star
03	03 18W	26 07	3	8.77 M ₀	1-1-1	"
04	03 25W	26 10	3	8.46 K ₀	1-1-1	"
04	03 15W	25 27	3	8.93 G ₀	1-1-1	"

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

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Exp. Angle E.S.T.	
14941	HD 170737	18 25.9	+26 36	12"	E10360	$\frac{5}{8}$ C88	32.6	21 14	21 52		
14942	HD 170738	18 25.9	+25 42				32.5	21 54	22 14		
14943	HD 186241	19 33.1	+27 59				32.5	22 19	22 39		
14944	HD 187921	19 47.4	+27 12				32.4	22 41	22 51		
14945	HD 191875	20 07.6	+25 25				32.4	23 07	23 27		
14946	HD 191878	20 07.1	+25 07				32.4	23 21	23 41		
14947	HD 192732	20 11.3	+25 42				+32.2	23 55	00 25		
14948	HG. 11420	20 26.5	+27 37				+32.2	00 29	01 03		
14949	HD 193321	20 41.9	+28 30				+32.1	01 06	01 38		
14950	204068	21 21.1	+26 46				+32.2	21 42	22 10		
14951	207398	21 33.5	+27 52				+32.2	02 13	03 32		
	Focus test - outside the box							$6\frac{5}{5}^s$			

Cloudy, clearing after dark 206
 June 12 1955

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp	REMARKS
	1 ^h 27 ^m W	+26 37	2	8.75 G _s	1-1-1	10 25 in. reading (from 11) 10 36 fixed - water face 10 V
	1 ^h 49 ^m W	+25 44	2+	8.79 G _s	1-1-1	
	1 ^h 07 ^m W	+28 04	2+	8.82 K ₀	1-1-1	
	1 ^h 14 ^m W	+27 19	2+	8.84 K ₀	1-1-1	small mag. [unclear]
	1 ^h 16 ^m W	+27 32	2-3	8.85 K ₀	1-1-1	Major star field [unclear]
	1 ^h 45 ^m W	+25 59	3	8.81 G _s	1-1-1	THICK DARK IN [unclear]
00 25	2 16 W	+29 52	3-	8.83 K ₀	1-1-1	hazy
01 05	2 39 W	+27 46	3-2	8.76 K ₀	1-1-1	"
01 45	2 52 W	+28 41	2-3	8.81 K ₂	1-1-1	"
02 15	2 52 W	+26 55	3+	8.7 A ₂ 8.76 G _s	1-1-1	(Wrong star marked on chart)
02 35	3 36 W	+28 06	3+	7.85 M ₈	1-1-1	variable (7.2-7.8) TW Pog. - why thickening or +0 - becoming faintly [unclear]

Aug 28 MC SC MTW STW
 -50^s +15^s -13^m 0.0^m

Aug 27-28, Clearing in with ice - then
 alternate clearing & thickening W.

H-Ga-No

Date

Sunday, Aug 28-27/48

Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Angle and
14952	HD 180719	19 30.7	+29 42	1-12 $\frac{1}{2}$	E 100a.0	2.000	+32.6	21 46	21 53	11
14953	AG 12132	19 31.0	+29 43	1-12 $\frac{1}{2}$	"	"	+32.6	21 00	21 06	11
14954	HD 185157	19 31.6	+27 39	"	"	"	+32.0	22 05	22 41	11
14955	HD 185270	19 33.2	+25 56	"	"	"	+32.5	22 04	22 04	11
14956	HD 192296	20 09.0	+00 11	"	"	"	+32.2	22 39	22 55	11
14957	HD 193403	20 20.3	+25 36	"	"	"	+32.2	22 39	22 51	11
14958	204638	21 250	+28 26	"	"	"	+32.2	22 59	00 29	11
14959	204711	21 254	+25 22	"	"	"	+32.1	00 52	01 06	11
14960	204753	21 29.1	+26 28	"	"	"	+32.0	01 09	01 39	11
14961	215944	22 42.7	+27 36	"	"	"	+32.0	01 42	02 20	11
14962	216331	22 410	+29 20	"	"	"	+32.0	02 23	03 04	11
14963	10276	01 35.6	+27 58	"	"	"	+32.0	03 07	03 57	11
14964	11781	01 50.5	+26 59	"	"	"	+32.0	03 59	04 31	11
	Flare that - outside of frame 6 $\frac{1}{5}$ "									

75 visitors shown 3 Cys.

N.C.C. 6205 + 6720

4 then 4'

208

Ending Time E.S.T.	our Angle End	Declination	Seeing	Ptg. Mag.	Comp.	REMARKS
2:31	37 W	27 02	3+	8.51 K ₂	1-1-1	focus 12.995
2:31	00 N	28 58	3	8.79 G ₅	1-1-1	
2:31	16 W	29 45	3	8.54 K ₀	1-1-1	
2:31	41 W	29 02	3	8.78 G ₅	1-1-1	1 - clouds. 63 04
2:31	32 W	30 18	3	8.75 G ₁	1-1-1	
2:31	40 W	25 45	3+	8.72 K ₅	1-1-1	
2:31	14 W	+28 38	+3-	8.77 G ₅	1-1-1	
2:31	50 W	+25 35	3-	8.77 K ₂	1-1-1	
2:31	50 N	+26 42	3-2	8.70 K ₀	1-1-1	
2:31	46 W	+21 52	2	8.62 G ₀	1-1-1	
2:31	26 W	+29 45	2-	8.64 K ₀	1-1-1	star looks to blink!
2:31	31 W	+25 13	2	8.35 K ₀	1-1-1	
2:31	36 W	+21 13	2	8.68 G ₀	1-1-1	scattered stars 04 10 - much thicker 04 20 - clouded out 04 35

209

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

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.
14965	HD 143291	16 28.4	+27 55	3-12"	F-103a-2	1.008	+29.0°C	19 47	20 57
14966	HD 152748	16 50.1	+27 45				+28.2	20 40	21 20
<p>1948 Aug. 30. H- Ba</p> <p>Changed to 25-inch camera 12-inch tilt was 20.26°</p>									
14967 F	25-inch	<u>22.2</u>		Vernier	23 40				
				huc	15 620	setting 0			
					15 820		3		
					15 720		7		
				Tilt	23 18				

Date Mon Aug 30-31 1948 D/O Julian DayP.L.

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.
14967	HD 169223	18 166	+16 38	1-25"	E 1030	20 608	+23.1	20 41	21 17
14968	HD 180316	17 110	+27 43				+23.6	20 20	21 38
14969	HD 182381	18 193	+15 49				-23.0	21 01	21 17
14970	HD 209598	21 595	+27 54				+23.0	21 25	22 37
14971	Magel.	3 05	-40 46	1-25"	E-10350	20 1022		02 02	02 10
								02 10	02 14
								02 14	02 16
14972	"			1-25"	E-10350	102		02 30	02 38
								02 40	02 44
							+22.8	02 44	02 47
14973	"			1-25"	E-10350	102		02 51	02 59
								02 59	03 03
							+22.8	03 03	03 05
14974	HD 1475	01 257	+59 20	1-25"	E-10350	102	+22.7	03 22	03 38
14975	HD 12232	01 130	-29 28	1-25"	E-10350	102	+22.6	03 44	05 00
"	Focus Test						-22.4		

Clouds at dusk, streamlines clearly
 Thompson's 212

Focus 15.790

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp.	REMARKS
	14 ^m W	+16 39	1+	7.38 K ₆	3-3-3	Binary
	14 ^m W	+27 53	1+	6.51 B ₃	3-3-3	
	14 ^m W	+15 54	1-2	7.42 A ₁₀	3-3-3	
	14 ^m W	+28 06	2	⁷¹² 7.27 E M	3-3-3	^{A₈} F ₂₂ P ₂₀ on _{pl} 9.3 Night unclouded Clouds from SW Clouds from SW at 10:10 - (Observed in addition to 14:00)
			2-3		9	Observed by cloud halos, the square No exposures (star or comp.) on plates 14971- 14975 incl.
02:14			2-3		9	
02:16			2-3		9	
02:34			2-3		9	
04:41			2-3		9	
04:47			2-3		9	
04:51			2-3		9	
03:03			2-3		7	
03:30	39 E		2-3		9	
03:38	54 W	+59 34	2	6 ^m 78	3-3-3	Binary numbered 14975
05:01	22 W	-29 40	1-	E ^m 51	3-3-3	A.G. 25
		OTB			10/7	3 PH loaded + 4

Truss

Date *Aug 31 - Sept 1/48* V. B. / Ga. Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle Est
14971	<i>Lyra</i>	55.2 18 57	+32 33 +32 37	I-25	E10320	ccc		19 51	20 00	
14972		55.2 18 57	2 33 31 37	L 21	E 40		20	20 09	20 12	
14973	HD 169223	15 15.6	16 38		E10320	ccc	20.1	20 42	21 22	
	HD 17256	15 35.9	65 24					20 36		
14974	197508	20 39.1	53 17				20.1	22 26	22 35	
14975	199095	20 49.8	52 12				20.1	22 57	23 07	
14976	251269	21 00.3	47 47				20.1	23 12	00 01	
14977	213342	22 19.3	14 46				19.8	00 01	00 32	
14978	HD 309598	21 38.3	47 52				19.6	00 29	01 08	
14979		3 01.7	+40 34		E 90	cc		21 11	21 22	
14980								20 51	21 02	
14981								21 51	22 02	

Transit enlarged 15.770

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp.	REMARKS
			2+	3.3	B ₉	9 Set 2
						9 Set 5
						7 Set 8
						9 Set 2
			3			9 Set 5
						12 Set 8
21.20	22.2	16 39	0-1	7.38	K ₀ 3-3-3	51.224 Declination trouble
				6.19	A ₀ 5-4	
21.25	23.2	83 24	1	6.22	A ₀ 5-4	51.224
21.30	24.14	52 30	1	5.69	A ₀ 5-4	51.224
21.35	25.04	42 58	0-1	7.50	A ₀ 3-3-3	
21.40	25.57W	15 01	0-1	6.71	B ₈ 3-3-3	
21.45	26.47W	28 06	2-3		M ₈ 3-3-3	45-33
					P ₃	15 25.0
						12
						9

Date

APR 11 1951

Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.
14777	PR	—	—	—	EAL	002		0232	0241
Cont'd								0241:10	0249:10
								0249:30	0249:30
								0248:10	0251:00
								0252	0300
14780	PR	3 01.7	+40 34	—	EAL	002	20	0304:40	0307:40
								0308	0312
								0312:30	0314:00
								0315:40	0319:40
								0324:50	0328:00
								0328:15	0331:30
								0337	0341
14781	PR	—	—	—	EAL	002	21	0345	0350
								0350:10	0400:10
								0400:30	0411:30
								0411	0415

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
			2-3		15 Sep 6
					15 Sep 3
					15 Sep 10
			2		15 Sep 12
					15 Sep 14
				38	15 Sep 15
					15 Sep 16
					15 Sep 17
			1		15 Sep 19
					15 Sep 20
					15 Sep 21
			2		15 Sep 22
				38	15 Sep 23
			3		12 Sep 2
			2		12 Sep 9
					12 Sep 16

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Date Sept 10 1922 Julian Day 2455100

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.
1427	<i>cont'd</i> p. 10							0415	0420
								0431	0435
								0440	0445
								0448	0455
<u>1428</u>					Emulsion				
1428 ²	HD 36484	05 28 12	02 49	1428	Emulsion	1008	20.0	05 43	06 15
1	same field		018						
1428 ² / F					Emulsion	1008	20.0		
					Emulsion	1003	20.0		

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
			2		15 Sept 12 plate numbered 14982
					16 Sept 12
					7-7 Sept 12
					7-7 Sept 14
					revised the number
11	57 E	+32 45	2	6.56 A2 1-1-1	1st at 1/2 position, consistent with actual width .0075. Several small part bands found on graph, primary for exposure 12 Sept 10/13 10/7 10/7 primary width changed, smaller glass in front of eye broken
					Sept 1. MC SC MTW STW -565 +255 -95 -1.4 m

Sept 1, 1958 Changed to 12-inch - Tilt set 20.27:

220

Micro 12.895 setting 2
 13.095 5
 12.995 9

hazy at sunset

Ending Time EST.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp.	REMARKS
2.00	2 45 W	+26 43	1	8.83 Kr	1-1-	<p>focus set 12.990</p> <p>downray streak while in contact!!</p> <p>- band contacts + some s.d.</p> <p>stars gone 20.35-20.50 -</p> <p>filled in solid 21.00 -</p> <p>scattered clouds thereafter</p> <p>sky still unvariable at 22.00</p>

Date Friday Sept. 24/1948 0-Ga Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Star Angle Ind.
14984	HD 183753	19 25.9	+28 31	I-12	E-103.0	^S -008	+23.9	21 17	21 37	2
14985	HD 191945	20 07.3	+26 52	"	"	"	+23.9	21 39	21 59	3
14986	HD 195712	20 27.8	+26 44	"	"	"	+23.9	22 01	22 23	4
14987	HD 193667	20 27.6	+26 42	"	"	"	+23.8	22 25	22 45	1
14988	HD 203285	21 16.2	+25 49	"	"	"	+23.8	22 48	23 06	2
14989	HD 204388	21 23.1	+27 27	"	"	"	+23.8	23 09	23 31	3
14990	HD 208750	21 53.3	+26 45	"	"	"	+23.8	23 24	23 52	4
14991	HD 208787	21 55.0	+29 25	"	"	"	+23.7	23 55	00 21	5
14992	HD 216586	22 49.0	+18 06	"	"	"	23.7	00 12	00 24	6
14993	HD 219654	23 12.4	+29 20	"	"	"	23.7	00 34	00 48	7
14994	HD 2552	00 26.7	+35 16	"	"	"	23.7	00 52	01 06	8
14995	HD 6132	00 52.4	+39 27	"	"	"	23.6	01 09	01 25	9
14996	HD 10766	01 40.7	+25 54	"	"	"	24.0	01 29	01 45	10
14997	HD 17613	20 30.3	+24 55	"	"	"	24.0	01 53	01 55	11
14998	HD 207203	21 42.5	+29 59	"	"	"	23.9	02 05	02 20	12
14999	HD 205276	21 50.1	+29 47	"	"	"	23.8	02 22	02 38	13

Focus 12.990

Clouds and haze at several cloudy evening

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
21 57	10 44 W	+28 37	2	8.49 K ₂	1-1-1 AG 25
21 59	10 24 W	+29 01	3-	8.63 K ₂	1-1-1 "
22 03	10 28 W	+26 55	2	8.60 K ₀	1-1-1 "
22 05	10 50 W	+26 53	2-3	8.55 K ₂	1-1-1 "
23 06	10 23 W	+26 02	2-3	8.65 K ₅	1-1-1 "
23 31	10 47 W	+27 38	2-3	8.35 K ₅	1-1-1 "
23 52	10 31 W	+26 58	3	8.70 G ₅	1-1-1 "
00 01	10 47 W	+29 38	3	8.68 K ₂	1-1-1 "
00 39	10 08 W	+28 20	3	8.48 K ₂	1-1-1 " spots yellow!
00 41	10 09 W	+29 35	3+	8.70 K ₅	1-1-1 "
01 06	1 15 E	+29 53	3	8.51 K ₀	1-1-1 " sitting 5
01 25	1 30 E	+29 42	3	8.62 K ₀	1-1-1 " sitting 8
01 45	1 25 E	26.09	3+	8.24 G ₅	1-1-1 " 4
01 51	1 09 W	44 58	3++	6.68 A ₂	1-1-1 " 6
02 00	1 11 W	-29 52	3++	8.67 K ₀	1-1-1 AG 25 " 4
02 08	1 22 W	29 59	3	8.63 K ₀	1-1-1 " 8

RA. for HD2552 00^h 24^m
 Mr. 2 at end does not check
 for this star - should
 it read 45^m E?

Date *2 in Sept 24/1941 cont'd* Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Star Angle End
15000 14717	AG 13020	21 51.7	+25 58	1-12	Emul. 0	0.008	+23.9	02 41	02 57	W
15001	AG 13639	22 36.9	+29 31	"	"	"	+23.9	03 00	03 30	W
15002 14778	HD 12360	21 55.2	+29 14	"	"	"	+23.8	03 36	03 52	W
15003	HD 14624	07 16.6	+25 49	"	"	"	+23.8	03 59	04 20	W
15004	HD 16099	02 30.1	+29 26	"	"	"	+23.8	04 17	04 37	W
15005 ⁵	HD 16139	02 30.4	+27 01	"	"	"	+23.9	04 40	04 58	W
15006 ⁶	HD 30288	05 26.2	+21 49	"	"	"	+23.8	05 04	05 07	W
							+23.8			

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp	REMARKS
02:57	3 29W	+26 11	3	8.72 G ₀	1-1-1	AG. 25 letting 4
03:03	3 27W	+29 47	3	8.63 K ₅	1-1-1	" " 8 of double
03:10	3 27W	+29 17	3	8.65 K ₀	1-1-1	" letting 4 looks fainter than 8.63!
03:17	3 31W	+26 01	3	8.71 G ₅	1-1-1	" " 8 fine
03:25	3 40W	+29 38	3	8.92 K ₀	1-1-1	" " 4 fine
03:34	3 00W	+27 15	3+	8.86 G ₅	1-1-1	" " 5 fine
03:41	3 40E	+32 46	3	8.88 A ₀	1-1-1	Binary guiding! fine
					OTB 8/5	
						4 PH. loaded. +3
						ONLY SEVEN PLATES LEFT!
						Saturday 2 p.m. +
						Result Mag. 0.0 +33

Date 21st Sept 4-5/1948 Wm-O / No Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
{ 1500 / 7	HD 183131	19 78.5	+28 17	"	E 103.0	"	25.7	21 26	21 54	
{ 1500 / 8	HD 191010	20 01.6	+25 24	"	"	"	25.6	21 47	22 14	
{ 1300 / 9	HD 195216	20 24.7	+27 31	"	"	"	25.5	22 04	22 32	
{ 150 / 10	HD 196034	20 29.7	+25 17	"	"	"	25.7	22 21	22 55	
{ 1501 / 11	HD 197550	20 39.2	+27 51	"	"	"	25.7	21 32	22 57	
{ 150 / 12	HD 198354	20 44.0	+25 10	"	"	"	25.7	23 00	23 14	
{ 150 / 13	HD 206978	21 40.7	+29 56	"	"	"	25.7	23 17	23 55	
{ 150 / 14	HD 208377	21 50.8	+25 13	"	"	"	25.7	23 38	23 51	
{ 150 / 15	HD 210625	22 07.0	+26 46	"	"	"	25.7	23 55	24 17	
{ 130 / 16	214232	22 38.3	+24 13	"	"	"	25.7	00 20	02 48	
{ 150 / 17	217714	22 51.2	+28 52	"	"	"	25.7	02 54	03 14	
{ 150 / 18	217714	22 52.8	+28 52	"	"	"	25.8	02 15	03 34	
{ 130 / 19	13303	02 57.6	+27 19	"	"	"	25.4	03 39	04 07	
{ 130 / 20	13422	02 52.5	+26 56	"	"	"	25.6	04 10	04 32	
{ 130 / 21	16139	02 02.4	+27 01	"	"	"	25.8	04 42	05 06	
	Sum total = 6 / 6									

50 meters down, long tubes in light and 15 tubes will 14 226
 tube = 5"

From R. 990

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp.	REMARKS
	33 W	+23 14	3+	8.52 G ₀	1-1-1	15.55 50.3 string
	36 W	+25 33	3+	8.67 K ₀	1-1-1	" 7 guiding! weak
	39 W	+27 41	3+	8.63 K ₅	1-1-1	" 3 <u>that's a good one</u> on wire
	42 W	+25 27	3+	8.64 K ₅	1-1-1	" 7 best good
	55 W	+30 01	3+	8.81 K ₀	1-1-1	" 3 ³ Rows $\frac{1}{2}$ from 21 43-41 <u>check to low</u>
	37 W	+28 20	3+	8.70 K ₀	1-1-1	" 7 good
	31 W	+30 11	3-	8.57 G ₀	1-1-1	" 5 fine
	34 W	+28 41	3+	8.67 G ₅	1-1-1	" 7 fine
	37 W	+27 20	3+	8.82 K ₀	1-1-1	" 5 string
	33 W	+29 28	3 ⁺	8.91 G ₅	1-1-1	" 7 string
	24 W	+29 06	3-	8.89 K ₀	1-1-1	" 3 { double string of 4 E " "
	15 W	+29 06	3	8.89 K ₀	1-1-1	" 7 { " " sp. " " " " " "
	01 E	+29 31	3-	8.89 G ₅	1-1-1	" 3 fine
	23 W	+27 08	3 ⁺	8.90 G ₀	1-1-1	" 7 double ref. string
	13 W	+27 15	3 ⁺	8.84 G ₅	1-1-1	" 3 too strong
						7 fine and 5 string

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Date

Jan 14 1950

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
15022	HD 173 132	22 33.4	+28 57	1-11	E 100-0	028	25.0	21 41	21 51	
15023		22 34.3	+28 54	"	"	"	25.0	21 15	21 21	
15024	HD 195 221	20 50.7	+28 04	"	"	"	25.0	21 25	21 31	
15025		20 51.3	+28 12	"	"	"	25.0	21 50	22 18	
15026	HD 195 488	21 15.4	+27 06	"	E 100-0 17468-61	"	25.0	22 26	23 18	
15027	HD 197 020	21 25.8	+25 42	"	"	"	25.7	22 34	23 12	
15028	HD 2552	00 21.1	+28 16	"	"	"	25.8	20 16	21 26	
15029	HD 4198	00 44.9	+27 56	"	"	"	25.9	01 30	02 10	
15030	HD 5164	00 48.6	+28 02	"	"	"	25.7	02 20	03 06	
15031	HD 13993	02 10.6	+27 20	"	"	"	25.7	03 11	04 11	
	From Table									
15032	17 11.9	02 39.7	+27 55	"	"	"	25.7	04 16	05 06	

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS	
17	W	+29 51	1-2	8.55 K ₂	1-1-1	Very faint! <u>None</u> <u>filling</u>
18	E	+14 57	2	6.63 A ₂	1-1-1	<u>filling</u> <u>filling</u> " <u>filling</u>
19	W	+25 12	2	8.20 K ₂	1-1-1	A 9.75 <u>filling</u> <u>filling</u> " <u>filling</u>
20	W	+25 20	2+	8.44 K ₅	1-1-1	" <u>filling</u> <u>filling</u> " <u>filling</u>
21	W	+27 17	2+	8.57 G ₅	1-1-1	" <u>filling</u> <u>filling</u> " <u>filling</u>
22	W	+25 52	3	8.57 G ₀	1-1-1	" <u>filling</u> <u>filling</u> " <u>filling</u>
23	E	+25 32	2-3	8.67 K ₀	1-1-1	" <u>filling</u> <u>filling</u> " <u>filling</u>
24	W	+25 35	2-3	8.74 K ₀	1-1-1	" <u>filling</u> <u>filling</u> " <u>filling</u>
25	W	+28 17	2-3	8.16 G ₁	1-1-1	" <u>filling</u> <u>filling</u> " <u>filling</u>
26	W	+29 32	2-3	8.23 G ₁	1-1-1	" <u>filling</u> <u>filling</u> " <u>filling</u>
					0-6	" <u>filling</u> <u>filling</u> " <u>filling</u>
27	W	+30 06	2-3	8.51 G ₅	1-1-1	" <u>filling</u> <u>filling</u> " <u>filling</u>

Mon., Sep 6-7, 1948. Unsettled, some showers 15°-20° Wm

Sept 9 MTW STW
+2^s +1.8^m

Date Jan 10 1900 Julian Day 210

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.
15032	HD 189012	18 22.6	+27 11	1-12	Fusion	let .008	+20.1°C	00 30	00 12
15034	HD 194071	20 12.5	+27 55	"	"	"	20.0	00 16	00 34
15035	HD 230684	23 20.6	+25 39	"	"	"	20.0	00 38	01 06
15036	HD 223332	23 43.6	+27 49	"	"	"	20.0	01 09	01 33
15037	HD 644	00 05.6	+17 01	"	"	"	20.0	01 36	02 00
15038	HD 2732	00 25.7	+29 01	"	"	"	19.7	02 03	02 29
15039	HD 6246	00 58.7	+15 04	"	"	"	19.7	02 32	02 54
15040	AG- 740	01 40.9	+29 03	"	"	"	19.7	02 58	03 14
15041	HD 14490	01 15.3	+29 28	"	"	"	19.7	03 31	04 01
15042	HD 18603	02 34.4	+30 09	"	"	"	19.7	04 11	04 37
15043	HD 22349	03 35.1	+29 10	"	"	"	19.7	04 43	05 09
	Formula Test						19.7		

Cloudy at sunset - clear til about 2315 EST

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Position	Focus	REMARKS
21 12	4 07 W	+29 15	2-3	8.70	Ko	1-1-1	AG-25 <u>Plate in white cardboard</u>
21 3	3 13 W	+28 03	2+	8.53	Ko	1-1-1	"
21 4	2 42 W	+25 55	2-3	8.77	Ko	1-1-1	"
21 5	1 46 W	+23 05	2-3	8.70	Ko	1-1-1	"
21 6	0 51 W	+20 15	2+	8.75	Go	1-1-1	} sec. lamp to focus with distilled water } strong from upper court
21 7	0 07 W	+27 13	2+	8.77	Ko	1-1-1	
21 8	0 07 W	+26 19	2	8.51	Go	1-1-1	"
21 9	0 11 W	+24 17	2+	8.83	Go	1-1-1	"
21 10	0 20 W	+22 42	2	8.70	Go	1-1-1	" ends from 3.41 - 3.35
21 11	0 21 W	+20 21	3	8.91	Ko	1-1-1	"
21 12	0 21 W	+29 19	3	8.79	Go	1-1-1	"
		07 B				5/5	
							4 p. H. loaded.

Focus sel 12.956

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp	REMARKS
12:00	1 36W + 24 48	0-1-2	8.68	G ₅	1-1-1	A.G. 25
12:05	0 59W + 28 03	3	8.69	K ₀	1-1-1	"
12:10	1 12W + 28 05	3-2	8.65	K ₀	1-1-1	" Not plotted on chart.
12:15	1 30W + 29 32	2	8.50	G ₀	1-1-1	"
12:20	0 20W + 27 54	2-3	8.58	K ₅	1-1-1	"
12:25	0 48W + 26 07	3	8.72	K ₀	1-1-1	"
12:30	1 07W - 30 04	3	8.61	K ₂	1-1-1	"
12:35	1 20W + 26 13	3	8.61	K ₅	1-1-1	" Double, North preceding
12:40	1 06W + 26 11	3-	8.61	K ₂	1-1-1	"
12:45	1 44W + 29 00	3-	8.58	K ₀	1-1-1	" Scattered C ₁₅ at 2300 m.
12:50	1 05W + 27 32	3-	8.93	G ₅	1-1-1	" Sky clear at start of exposure; completely obscured by 0050

O.T.S

6/4

4 P.M. London + 4 + 12

Cloud 50-60 Percent - Visible
clarity.

Date Oct Sept 11/12/42 Hd-Sa/De Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.
15055	HD 205626	21 31.5	+25 53	1-12	E-12	100	+19.0	23 26	23 52
15056	HD 205627	21 31.5	+25 53	"	"	"	+19.0	23 53	00 15
15057	AG 12707	21 32.5	+29 13	"	"	"	+18.8	00 18	00 36
15058	HD 2252	00 30.6	+28 32	"	"	"	18.7	00 41	00 59
15059	" 4312	00 40.5	+25 35	"	"	"	18.7	01 02	01 18
15060	" 5007	00 41.0	+25 14	"	"	"	18.6	01 21	01 37
15061	" 5411	00 50.3	+28 39	"	"	"	8.7	01 41	02 05
15062	" 7300	01 08.1	+25 55	"	"	"	8.7	02 08	02 26
15063	" 7308	01 08.2	+25 42	"	"	"	18.7	02 28	02 51
15064	AG 710	01 08.5	+25 45	"	"	"	18.7	02 53	03 23
15065	HD 12721	01 39.6	+28 39	"	"	"	18.7	03 27	03 43
15066	" 14456	02 15.0	+28 24	"	"	"	18.6	03 47	04 05
15067	AG 1264	02 16.4	+27 29	"	"	"	18.6	04 09	04 25
15068	AG 1265	02 16.5	+29 59 ⁰	"	"	"	18.6	04 28	04 44
15069	" 14714	02 18.9	+30 12	"	"	"	18.5	04 47	05 03
15070	" 17479	02 54	+28 48	"	"	"	18.5	05 06	05 26

1. for visitors who were down (P. Day with 14)
 2. and 4 (about 2-10 visitors)
 about 2.30.

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Zone 12.987	REMARKS
01:00	25 W	+21 09	2-3	8.55 G ₀	1-1-1	AS 25 }
01:05	48 W	+26 09	3	8.52 G ₀	1-1-1	" " }
01:10	39 W	+29 26	3	8.51 G ₀	1-1-1	" " }
01:15	28 E	+28 47	3	8.62 G ₅	1-1-1	" " }
01:20	18 E	+25 54	3	8.49 K ₂	1-1-1	" " }
01:25	05 E	+25 30	3	8.75 K ₀	1-1-1	" " }
01:30	18 W	+28 52	3-	8.92 K ₀	1-1-1	" " }
01:35	22 W	+26 11	3	8.56 K ₀	1-1-1	" " }
01:40	42 W	+25 55	3	8.83 K ₀	1-1-1	" " }
01:45	20 W	+26 00	3	8.99 K ₀	1-1-1	" " }
01:50	48 W	+26 50	3	8.44 G ₅	1-1-1	" " }
01:55	55 W	+29 16	3	8.56 G ₅	1-1-1	" " }
02:00	22 W	+27 23	3+	8.53 G ₀	1-1-1	" " }
02:05	32 W	+35 34	3+	8.54 K ₀	1-1-1	" " }
02:10	42 W	+32 25	3+	8.57 G ₀	1-1-1	" " }
02:15	31 W	+30 40	3+	8.75 G ₀	1-1-1	" " }

Date Sun. Sept 12-13 1948 0/12 Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.
{ 15071	HD 180316	19 11.0	+27 46	I-25	F-103.0	^{4J} 008	+25.7	19 13	19 21
{ 15072	HD 172547	18 35.9	+46 24	"	"	"	+25.8	19 26	19 31
{ 15073	HD 197538	20 08.1	+83 17	"	"	"	+25.8	19 41	19 47
{ 15074	HD 196133	20 30.3	+44 50	"	"	"	+25.7	19 56	20 04
{ 15075	(MWC 317) HD 183143	19 23.0	+18 05	"	"	"	+25.7	20 09	20 19
{ 15076	MWC 520	19 41.3	+5 44	"	"	"	+25.7	20 22	21 10
{ 15077	HD 194510	20 20.9	+25 24	"	"	"	+25.7	21 13	21 53
{ 15078	HD 199221	20 50.7	+21 42	"	"	"	+25.7	21 56	22 08
{ 15079	HD 209484	21 58.7	+29 44	"	"	"	+25.6	22 31	22 41
{ 15080	HD 209469	21 58.6	+12 20	"	"	"	+25.6	22 45	22 55
{ 15081	(MWC 397) HD 218372	22 00.6	+19 40	"	"	"	+25.6	23 04	23 12
{ 15082	(MWC 315) HD 217543	22 36.3	+18 10	"	"	"	+25.6	23 17	23 29
{ 15083	HD 210170	22 03.9	+17 04	"	"	"	+25.5	23 30	23 42
{ 15084	HD 211333	22 01.0	+28 18	"	"	"	+25.5	23 46	23 51
{ 15085	HD 211274	22 00.5	+17 52	"	"	"	+25.5	23 52	23 59
{ 15086	HD 195132	19 00.0	+44 26	"	"	"	+25.5	24 00	24 00

Sun Sept 12/48 changed to I-25 I-25 focus was 12.987 Tilt 23.18
 Temp 24.0°C. I-25 set to Focus 15.750 Tilt 23.18
 Temp 25.7°C. Focus last made and found O.K. focus 15.750
 236

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Focus	REMARKS
19 2		+ 27 51	3+	6.51 B ₅	3-3-3	late Settling 3 Binary
19 2	05 W	+ 65 25	3+	6.10 A ₃	5-4	Binary <i>gliding</i>
19 2	1 38 E	+ 83 27	3+	6.22 A ₂	5-4	Binary
19 2	1 20 E	+ 44 58	3	6.68 A ₂	5-4	Binary
19 2	0 04 W	+ 18 09	3	6.9 B ₇	5-4	Be Program
19 2	0 57 W	+ 05 51	3	8.5 B ₅	3-3-3	Be Program
19 2	1 40 W	+ 25 33	3	8.33 G ₅	3-3-3	AG 25
19 2	0 46 W	+ 27 51	3+	8.30 G ₅	3-3-3	AG 25
19 2	1 10 E	+ 29 58	3+	7.00 B ₉	3-3-3	Binary <i>gliding!</i>
19 2	0 05 W	+ 11 35	3+	7.04 B ₉	3-3-3	Binary
19 2	1 12 E	+ 41 55	3-	6.8 A _{ve}	5-4	Be Program
19 2	1 15 E	+ 38 25	3+	6.4 B _{2me}	5-4	Be Program
19 2	1 47 W	+ 17 17	3	6.78 A ₀	3-3-3	Binary
19 2	1 37 W	+ 22 41	3	5.56 B _{7a}	5-4	Binary
19 2	1 22 W	+ 22 04	3	(9.8) M ₀	3-5-3	P. 100 TW. P. 100
				6.5 A₀	X	Binary Too FAR WEST

Date *Sept. 10, 1945*

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
{ 15076	MWC 397 HD 215 392	23 02 6	49 40	²⁵ Lick	<i>C103aD</i>	<i>0.002</i>	25.5	03 50	03 52	
{ 15077	4744	00 21 4	20 24				25.5	03 11	04 11	
{ 15078	21548	03 15 4	04 31				25.5	04 15	04 52	
{ 15079	32543	05 00 4	70 29				25.5	15 05	05 15	
{ 15080	35176	05 40 0	20 50							
	<i>Hourly Set</i>									

Max
Date Sep 13-14, 1948

Wm / 5

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
{ 15 090	HD 196 133	20 30.3	+ 44 5	I-24	103-0	SF 008	+24.2	19 ^h 30 ^m	19 ^h 50 ^m	153
{ 15 091	HD 142 321 MWC 397	19 10.3	+ 15 49	"	"	"	+24.1	19 ^h 59 ^m	20 ^h 43 ^m	154
{ 15 092	HD 218 333 MWC 399	23 02.6	+ 49 10	"	"	"	+24.0	21 ^h 01 ^m	21 ^h 27 ^m	155
{ 15 093	HD 217 050	22 52.7	+ 48 05	"	"	"	+24.0	21 ^h 21 ^m	21 ^h 37 ^m	156
{ 15 094	HD 201 490	21 04.9	+29 58	"	"	"	+23.9	22 10	23 31	157
{ 15 095	HD 213 025 MWC 409	22 23.5	+ 26 31	"	"	"	+24.0	23 39	00 27	158
{ 15 096	HD 225 095	23 57.3	+ 55 00	"	"	"	+24.0	00 34	01 34	159
{ 15 097	HD 196 133	20 30.0	+ 44 50	"	"	"	+24.0	01 41	02 05	160
{ 15 098	HD 210 107 MWC 49	22 02.7	+ 42 37	"	"	"	+24.0	02 09	02 47	161
{ 15 099	HD 154 72	02 24.4	+ 70 30	"	"	"	+24.0	02 58	03 40	162
{ 15 100	HD 218 393 MWC 53	23 02.6	+ 49 10	"	"	"	+24.0	03 48	04 04	163
{ 15 101	HD 206 13 MWC 93	03 02.1	+ 28 14	"	"	"	+23.8	04 11	04 51	164
{ 15 102	HD 312 43	04 49.4	+ 30 24	"	"	"	+23.7	05 01	05 31	165
"			05 13		10/9		+24.0			

Focus 15.743

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Setting	comp.	REMARKS
19:05	1 ^E 23	+49°56'	1-	6.68 A ₂	Setting 3	3-3-3	Binary
21:05	0 ^W 41	+15°54'	0	7.42 A _{0n}	Setting 8	3-3-3	"
21:07	2 ^E 27	+49 54	0+	6.8 Ave	Setting 3	3-3-3	Be Program } numbered 15091-2
21:07	2 ^E 04	+48 24	0+	5.2 B _{3ne}	Setting 3	3	"
23:00	1 ^W 41	+30 00	0	8.05 G ₀	Setting 3	3-3-3	AG25 ← { BEW OUT DEC 610-06 FUSS REPLACED W. NE P OF BE.
00:00	1 ^W 16	+26 45	0+	7.27 K ₀	Setting 3	3-3-3	"
01:00	0 ^W 47	+55 15	0	7.6 B _{1e}	" 3	3-3-3	Be Prog.
02:00	4 ^W 42	+44 50	1	6.68 A ₇	" 8	3-3-3	Binary
03:00	3 ^W 59	+52 40	1	7.50 B ₉	" 3	3-3-3	Binary
04:00	0 ^W 17	+70 42	2	8.0 B _{ume}	" 8	3-3-3	Be Prog.
05:00	4 ^W 13	+47 53	2	6.8 Ave	" 3	3-3-3	Be Prog.
06:00	3 ^W 55	+47 20	2	7.9 B _{me}	" 8	3-3-3	Be Prog.
07:00	0 ^E 15+	+50 27	1-	7.5 A _{0p}	" 3	3-3-3	Be Prog.

2 plates taken Dec 17/48

Date Thursday, Sept 16-17/45 20/60 Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Star Angle End
15103	HD 180316	19 11.0	+27 42	3.25	10300	S.T. 001	+17.2	21 34	21 48	2
15104	HD 196133	20 30.8	+44 30	"	"	"	17.1	22 29	22 23	4
15105	MWC 197 HD 218393	23 01.6	+39 46	"	"	"	17.0	22 36	22 52	1
15106	HD 218198	23 01.0	+39 11	"	"	"	17.0	23 55	01 09	2
15107	MWC 68 HD 21650	22 46	+41 25	"	"	"	17.0	01 16	01 40	1
15108	MWC 76 HD 23381	24 42.3	+42 11	"	"	"	17.0	01 57	02 27	1
15109	MWC 82 HD 26425	14 31.7	+41 53	"	"	"	17.0	02 35	02 57	1
15110	MWC 197 HD 218293	23 01.6	+39 46	"	"	"	17.0	02 06	02 16	1
15111	HD 33171	21 25.7	+21 25	"	"	"		02 27	03.315	
15112	HD 30416	05 11.0	+28 51	"	"	"		02 57	03 44	
15113	HD 32822	05 12.5	+28 07	"	"	"	17.0	03 56	05 02	
15114	HD 21104	07 20.8	+19 41	"	"	"	17.0	05 13	05 27	
	From List		O.T.S.	10" - 7"			17.0			

Focus Set 15.645

Haze during early evening

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp	Setting	REMARKS
	2 01W	+27 51	1-2	6.51	B ₅	3-3-3	3 Binary
	1 17W	+40 58	2	6.68	A ₂	3-3-3	8 Binary Dec guiding motion starting at start
	0 46E	+49 55	2-3	6.8	A ₁₀	3-3-3	3 Be Program Scattered Be clouds Visible obscures by 21:55 Partially cleared, 22:00
	1 33W	+20 26	1+	5.28	K ₀	3-3-3	3 AG 25
	2 51E	+41 03	2	7.2	B ₅ ne	3-3-3	8 Be prog. { lock up me to let driving
	1 37E	+63 20	3-	8.1	B ₅ e	3-3-3	3 Be prog. too fast
	1 45E	+41 50	3	7.6	B ₅ max	5-3-3	8 Be prog.
	3 59W	+19 58	3	5.5	A ₁₀	3-3-3	8 Be prog. or complete on 15:05
			3	5.76	A ₀	5-4	3 Binary
	2 01E	+28 42	3	6.7	B ₁	3-6	8 Binary
	1 11E	+28 05	3+	8.91	K ₀	3-3-3	3 AG 25
	1 30W	+19 45	3	8.10	F ₈	5-4	6 Binary { incorrect astrometry of the star lost long with 6 mag. images. 15:00
							9

2 PM loaded

m₀ 25
 Sept 12 -11 102 11 102

Date *Mon Sept 20-21, 1948* *10-0* Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.
{ 15115 a	HD 198113	20 30.3	49 50	T-25	E0310	508	+21.0	20 12	20 48
{ 15115 b	"	"	"	"	"	"	+20.8	22 44	23 24
{ 15116 a	^{HD 198113} HD 198113	19 29.0	49 45	"	"	"	+21.0	20 59	21 59
{ 15116 b	^{HD 198113} HD 198113	21 55.6	49 12	"	"	"	+20.7	01 38	02 04
{ 15117 a	HD 209591	21 28.8	49 00	"	"	"	+20.8	22 05	22 39
{ 15117 b	"	"	"	"	"	"	+20.6	00 15	00 53
{ 15118	HD 209591	21 28.8	49 00	"	"	"	"	23 31	00 01
{ 15119	HD 20975	01 29.7	49 20	"	"	"	+20.4	01 01	01 29
{ 15120	HD 21483	01 16.2	49 38	"	"	"	+20.2	03 18	03 38
{ 15121	HD 21484	01 28.8	49 41	"	"	"	+20.3	01 43	02 21
{ 15122	HD 21484	01 28.8	49 41	"	"	"	+20.2	04 37	05 11
{ 15123	"	"	"	"	"	"	+20.0		

cloudy at first.

244

Set Focus 15.703

Hour Angle End	Declination	Seeing	Ptg. Mag.	Dist. (arc)	Parallax (arc)	REMARKS
E 0 02	44 57	0	6.68 A2	3, 3, 3	Set 2	Binary. <u>Variably cloudiness</u>
J 2 25	44 58	0!	" "	3, 3, 3	set 8	"
W 2 16	19 09	0	6.9 Bpsd	3, 3, 3	Set 2	Be Prog.
0 48 W	39 25	0+	8.2 B3e	3-4-2	Set. 8	Bi Prog.
E 0 44	49 53	0	6.8 AVE	3, 3, 3	set 2	Be Prog.
01 31 W	49 54	0	"	3-3-3	Set. 8	"
1 48 W			1.5? Mc	3, 6	set 2	Ubla * clouds of reflection.
0 08 W	+59 34	0	6.78 Aom	3-3-3	Set. 8	Binary.
0 21 E	412 75	0+	6.56 F4	3-3-3	Set. 2	Binary
0 28 E	-19 75	1	7.06 F8	3-3-3	Set 8	Binary. <u>Plat. moving in parallel</u>
0 26 E	-32 46	0	6.56 A2	3-3-3	Set. 2	Binary. <u>Very heavy!</u>
	OTE			10/8	Set. 8	

3 PH loaded. + 4.

Date Two Sept 20 1900 1900 - 19 Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
15 123	HD 195 493	20° 30' 3	14 100'	13-25	1000 C	1/2"	+10.0	19 23	19 57	1/2
15 124	HD 192 301	15° 15' 5	14 100'	"	"	"	+10.0	20 28	21 02	1/2
15 125	HD 200 378	20° 35' 2	14 100'	"	"	"	+10.0	21 10	22 05	1/2
15 126	HD 195 651	21° 50' 7	+20° 00'	"	"	"	+10.0	22 16	23 46	1/2
15 127	HD 192 301	15° 21' 0	+36° 14'	"	"	"	15.5	00 51	00 59	1/2
15 128	196 123	20 30.3	44 50	"	"	"	15.4	01 07	01 41	1/2
15 129	MWC 28 12305	01 55.6	59 12	"	"	"	15.5	01 51	03 35	1/2
15 130	221 41	02 37.3	25 04	"	"	"	15.6	03 41	05 31	1/2
<i>From List</i>										

Date Wed Sept 22-23/43 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.	Exp. Angle E.S.T.
15131	M.W.C. 202	18 173	25 01	I-25	F1030	SET 005	+14.2	19 13	19 46	14
15132	" 300	18 123	25 33	"	"	"	+14.2	19 02	20 22	14
15133	" 310	19 015	23 11	"	"	"	+14.2	20 27	22 17	14
15134	" 312	19 113	12 06	"	"	"	+14.1	21 01	21 11	14
15135	HO 106193	20 303	44 57	"	"	"	+14.1	20 16	21 42	14
15136	" 205195	21 356	31 03	"	"	"	+14.2	22 44	23 32	14
15137	M.W.C. 397	19 082	42 00	"	"	"	+14.1	21 35	00 02	14
15138	" 407	23 328	45 52	"	"	"	+14.1	00 03	00 15	14
15139	M.W.C. {	111 31	07 27 43	"	"	"	+14.2	02 30	01 22	14
15140		4714	30 44 4	27 54	"	"	+14.1	01 23	02 37	14
		10644	29 52		"	"				
15141	M.W.C. {	23237	03 01 27 57	"	"	"	14.2	03 46	04 16	14
15142		27113	14 10 2 15 28	"	"	"	14.2	04 20	04 34	14
15143		27104	04 24 18 41	"	"	"	14.1	04 07	05 07	14
		27347	15 03 9 20 14	"	"	"				
	<i>Green Sheet</i>									

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

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
15143F	<i>Small Star</i>	O.T.B.		I 12 $\frac{1}{2}$	E 11300	5xT 508	+15.0			1
15144	HD 173329	18 42.8	+27 23	I-12	E-10200	508	+15.4	18 49	19 19	2 11
15145	173435	18 40.2	+26 17	"	"	"	+15.4	19 22	19 52	3 11
15146	186722	18 42.8	+30 02	"	"	"	+15.4	19 55	20 27	4 04
15147	191512	20 05.6	+27 26	"	"	"	+15.2	20 29	20 55	1 27
15148	195234	20 28.6	+28 13	"	"	"	+15.4	20 57	21 22	2 25
15149	199717	20 52.0	+28 53	"	"	"	+15.3	21 26	21 52	3 26
15150	204079	21 26.1	+26 46	"	"	"	+15.4	21 54	22 22	4 28
15151	209500	21 58.9	+29 17	"	"	"	+15.3	22 26	22 50	1 24
15152	216221	22 42.0	+29 30	"	"	"	+15.3	22 53	23 13	2 16
15153	RG 13812	22 59.4	+27 16	"	"	"	+15.2	23 15	23 59	3 44
15154	HD 223217	23 41.8	+25 47	"	"	"	+15.2	00 05	00 36	4 39
15155	RG 556	00 50.6	25 18	"	"	"	+15.2	00 43	01 08	1 25
15156	HD 5485	01 01.8	25 45	"	"	"	+15.2	01 33	01 51	2 18
15157	" 14024	02 06.6	25 49	"	"	"	+15.2	02 25	03 11	3 46

Sep. 24

MTW
-00^s.4

STW
+0^m.2

250

Changed to 122 compass 25' north from 15.507
set 122 Sels 20.55 (Sels 23.13)

Ending Time
E.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Colours	Disposition	REMARKS
Exposure 6/4						
Set 1.5, 12.967; Set 5, 13.007; Set 8.5 12.987						
Time set 5 12.977						
32 W	+27 27	2-3	8.63	K01-2-1	AG 25	Very mag 8.2
25 W	+26 11	2-3	8.72	G5 1-1-1	"	clouded out 20' 20" 16
10 W	+25 57	3-3	8.95	M0 1-1-1	"	Full at 12.977
45 W	+23 35	3	8.84	G5 1-2-1	"	
53 W	+23 52	2-3	8.92	K2 1-1-1	"	
54 W	+23 03	2-3	8.84	K0 1-1-1	"	
57 W	+22 52	2-3	8.91	G5 1-1-1	"	
47 W	+22 27	3	8.72	K5 1-1-1	"	
22 W	+22 45	2-3	8.64	K0 1-1-1	"	
65 W	+21 21	2-3	8.93	G5 1-1-1	"	m. 57 dim mag 8.2
74 W	+20 04	2	8.74	K5 1-1-1	"	
78 W	19 37	2	8.73	G5 1-1-1	"	
74 W	19 00	2	8.55	G5 1-1-1	"	
70 W	18 03	2	8.91	G5 1-1-1	"	

Date

April 25, 1911

Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	View Angle E.S.T.
15158	HD. 18105	09 12 3	26 26	I-12	F 10300		+15.2	03 15	04 01	4
15159	" 25834	09 00 6	30 00	"	"	"	+15.1	04 05	04 51	1
15160	" 30467	09 00 9	26 50	"	"	"	+15.1	04 55	05 29	2
	Kronfeld					258				

Ending Time
E.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
05 W	27 08	2	8.96 G ₂	1-1-1
06 W	30 08	2	8.96 G ₂	1-1-1
07 W	26 55	2	8.58 G ₂	1-1-1
				5/9

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

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
15161	HD 205316	21 39.4	+25 28	1-12	F103a	^{Sell} 008	+17.8	21 40	22 10	3
15162	AG 13037	21 53.0	+23 27	"	"	"	+17.7	22 14	22 42	4
15163	HD 219434	22 23.0	+15 35	"	"	"	+17.7	22 46	23 12	1
15164	AG 13842	21 59.4	+23 17	"	"	"	+17.7	23 16	23 48	2
15165	HD 223138	22 41.9	+27 52	"	"	"	+17.7	23 42	24 18	3
15166	HD 249	00 02.2	+25 54	4	"	"	+17.7	00 31	00 55	2
15167	HD 2190	00 20.8	+28 23	"	"	"	+17.8	00 31	00 55	2
15168	4268	00 40.0	+27 25	"	"	"	+17.7	00 54	01 15	1
15169	13610	02 01.7	+24 53	"	"	"	+17.8	02 20	03 10	1
15170	21431	03 22.4	+25 56	"	"	"	+17.7	02 18	03 46	1
15171	25021	02 57.6	+22 56	"	"	"	+17.7	03 49	04 27	1
15172	31732	04 53.5	+25 47	"	"	"	+17.7	04 45	05 25	1

James East

Date Sunday April 25-27 1927 Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Star Angle End	
15173	AG	10753	19 379	29 37	I-123	F103,0	025	1200	20 15	21 07	30
15174	AG	11135	21 000	30 05	I-123	D103,0	025	1200	21 12	22 04	30
15175	AG	13167	22 026	21 10	"	"	-19.9	22 11	23 03	30	
15176	HD	21668	22 423	28 30	"	"	+10.3	23 18	00 05	30	
15177	AG	63 00 00	26 20	"	"	"	19.8	00 09	01 05	30	
15178	HD	73 32 01	05.6	25 17	"	"	19.9	01 03	01 58	30	
15179	AG	1108 12 00	5 29 20	"	"	"	19.9	02 07	03 02	30	
15180	HD	22 65 02	14 7	26 34	"	"	19.7	03 13	03 56	30	
15181		26 49 00	02 7	28 36	"	"	20.0	03 57	05 09	30	
15182		32 95 05	05 37	29 10	"	"	19.9	05 13	05 30	30	
<i>From Test</i>											

Start delayed: some clouds after sunset

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Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp	REMARKS
0.13	1 13 W	29 45	1	8.97 G ₀	1-1-1	AG 25
0.14	1 0 W	30 15	1	8.71 G ₅	1-1-1	AG 25
0.15	1 0 7 W	25 24	1	8.23 G ₀	1-1-1	AG 25
0.16	1 1 2 W	29 06		8.93 G ₀	1-1-1	AG 25
0.17	1 0 0 W	26 49	1	8.79 K ₀	1-1-1	"
0.18	0 54 W	25 35	1	8.51 G ₅	1-1-1	"
0.19	1 0 7 W	29 24	1	8.56 G ₀	1-1-1	"
0.20	2 43	26 45	1-2	8.54 G ₅	1-1-1	see guiding
0.21	1 10 W	29 04	1-2	8.96 G ₀	1-1-1	see guiding
0.22	0 0 0 E	29 10	1-2	7.56 K ₀	1-1-1	see guiding much to see
	D.T.B.			6/4		4 P.H. looked 1 d

Date *Apr. 27-28/48* L-V Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
15183	AG. 9524	19 030	29 03	T 12 $\frac{1}{2}$	E-105-2	547 008	+21.8	19 00	19 42	4
15184	" 10813	20 006	26 12	"	"	"	+21.8	19 47	20 33	1
15185	HD. 19644B	20 324	28 52	"	"	"	+21.8	20 33	21 15	2
15186	" 204923	21 267	25 37	"	"	"	+21.8	21 19	22 05	3
15187	AG 13246	22 063	25 19	"	"	"	+21.7	22 08	22 50	4
15188	" 14232	23 388	30 11	"	"	"	+21.6	22 55	23 40	1
15189	HD. 224458	23 330	29 24	"	"	"	+21.6	23 44	00 28	2
15190	HD. 5411	00 56.5	28 34	"	"	"	+21.6	00 33	01 37	2
15191	HL 1112221	44.0	28 23	"	"	"	21.6	01 40	02 36	4
15192	1832862	51.6	29 19	"	"	"	21.6	02 39	03 11	1
15193	2284903	35.1	29 20	"	"	"	21.6	03 14	04 12	2
15194	2724124	7.6	29 38	"	"	"	21.6	04 16	05 18	3
15195	36484	05 22.9	32 44	"	"	"	21.6	05 22	06 25	4
<i>Focus Test</i>										

Nov - 12 1922

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comps	REMARKS
0 46 W	29 07	2	8.99 G ₀	1-1-1	AG 25	very faint
0 30 W	26 30	2	8.90 G ₀	1-1-1	" "	very faint
0 52 W	27 01	2-1	8.90 K ₀	1-1-1	" "	fine
0 46 W	25 43	1-2	8.97 K ₅	1-1-1	" "	very faint
0 51 W	25 33	1-2	8.90 K ₂	1-1-1	" "	very faint
0 09 W	30 27	1-2	8.73 G ₀	1-1-1	" "	very faint
0 44 W	29 41	1-2	8.35 K ₀	1-1-1	" "	very faint
0 54 W	28 52	1-2	8.93	K ₀ 1-1-1	" "	fine
1 10 W	25 30	1-2	8.93	G ₅ 1-1-1	" "	fine
0 27 W	29 30	1-2	8.59	G ₅ 1-1-1	" "	fine
0 45 W	29 19	1-2	8.99	G ₅ 1-1-1	" "	very faint
1 09 W	28 04	1-2	8.73	G ₀ 1-1-1	" "	very faint
0 59 W	32 45	1-2	6.56	Az ₁ 1-1-1	BINARY	very faint
	O.T.B.			6/4		2 P.H. headed + 4 from on

Date Tues., Sept 28-19, 1948 Wm. W. Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
15 196	HD 181 047	19 ^h 13 ^m 8	+26°11'	I-12	14215	012	+23.6	19 02	19 32	
15 197	HD 187 162	19 ^h 43 ^m 4	+28°19'	"	"	"	+23.6	19 49	20 17	1 ^h 4
15 198	HD 187 290	19 ^h 44 ^m 1	+28°24'	"	"	"	+23.6	20 21	20 51	1 ^h 9
15 199	AG 12 15 B	21 ^h 03 ^m 4	+29°58'	"	"	"	+23.6	21 02	21 22	1 ^h 31
15 200	AG 12 83 A	21 ^h 39 ^m 6	+26°04'	"	"	"	+23.5	21 27	21 53	1 ^h 2
15 201	HD 206 899	21 ^h 40 ^m 1	+29°51'	"	"	"	+23.5	21 59	22 24	1 ^h 2
15 202	HD 208 641	21 ^h 52 ^m 6	+27°32'	"	"	"	+23.6	21 55	22 55	1 ^h 6
15 203	AG 14 185	23 ^h 32 ^m 3	+25°13'	"	"	"	+23.6	23 02	23 36	1 ^h 1
15 204	HD 223 231	23 ^h 42 ^m 6	+26°37'	"	"	"	+23.5	23 33	00 02	1 ^h 1
15 205	HD 2343	00 ^h 22 ^m 2	+30°21'	"	"	"	23.5	00 06	00 25	1 ^h 1
15 206	HD 4768	02 40.2	27 20	"	"	"	23.6	00 35	00 59	1 ^h 1
15 207	AG 7300	01 08.5	25 45	"	"	"	23.6	01 02	01 23	1 ^h 1
15 208	HD 11721	01 47.4	25 37	"	"	"	23.6	01 34	02 04	1 ^h 1
15 209	14624	02 16.6	25 47	"	"	"	23.6	02 08	02 34	1 ^h 1
15 210	18400	02 20.0	26 06	"	"	"	23.6	02 39	03 09	1 ^h 1
15 211	18422	02 21.2	27 20	"	"	"	23.6	03 13	03 35	1 ^h 1

FOCUS 12.292

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
17	0 ^w 30	+25°15'	2	8.83 G0 1-1-1	AG 25
21	0 ^w 45	+28°21'	2	8.95 G5 1-1-1	"
21	1 ^w 19	+28°11'	2+	8.99 K0 1-1-1	"
21	0 ^w 31	+30°11'	3	8.83 G0 1-1-1	"
21 53	0 ^w 25	+26°17'	3	8.89 G5 1-1-1	"
22	0 ^w 55	+30°54'	3	8.90 K5 1-1-1	"
22	1 ^w 15	+27°45'	2+	8.89 G5 1-1-1	"
22	0 ^w 50	+25°23'	2+	8.89 G5 1-1-1	"
22	0 ^w 31	+26°52'	3-	8.97 K2 1-1-1	"
22	0 18 W	30 37	3	8.90 G5 1-1-1	"
22 59	0 31 W	27 40	3	8.97 G5 1-1-1	SWITCH CLAMP NOT OPERATING PROBABLY DOME TURNING FAILED, BRICK NEEDS CIVILIAN
23	0 37 W	26 00	3	8.83 8.94 K ² 1-1-1	AG 25
23 07	0 26 W	25 52	3-2	8.97 G5 1-1-1	"
23 20	0 29 W	26 02	2	8.91 G5 1-1-1	"
23 01	0 29 W	27 08	2+	8.90 G5 1-1-1	"
23 25	0 40 W	29 38	3	8.90 G5 1-1-1	"

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
04.12	0 23W	30 02	3	8.96	K21-1-1	long diff. out fine
04.43	0 21E	26 11	3	8.91	G51-1-1	long diff. fine
05.17	0 20E	24 54	3	8.99	G51-1-1	very poorly guided
05.33	0 00	25 27	3	8.91	K01-1-1	1 star
05.41	0 25W	32 46	3	6.56	A21-1-1	poorly guided
	OTB			6/4	1 P.H.	1 star fine on

approximate ground to stars
by double exposure

	MC	SC	MTW	STW
Sept. 29	-1 ^m 34. ^s 1	+1 ^m 08. ^s 0	+07.0	+0 ^m 0.3

1948 Sep 29-30 Pa-L

Date 29-30 Sept RTB & 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
15217	AD 11517	21 22.2	21 43	1 12	10240	"	22.4	2032	2118	2
15218	HD 20397A	21 17.3	28 02	"	"	"	22.3	21 26	2156	3
15219	HD 20397	21 51.2	25 57	"	"	"	22.1	22 04	2239	4
15220	HD 24332	21 22.3	29 13	"	"	"	22.1	2239	23 09	3
15221	HD 21253 ^B	21 11.9	30 07	"	"	"	22.2	2312	2348	
15222	HD 113424	23 44.3	26 29	"	"	"	22.3	2312	00 20	4
	Star field				OTB					

FOCUS?

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
2:15	101 W	26 14	1	8.77 K0 1-1-1	AG 25 faintly obscured by low clouds
2:30	0 55 W	28 20	2	8.89 K2 1-1-1	AG 25
3:34	0 55 W	26 11	2	8.86 G5 1-1-1	AG 25 NO NUMBER
3:57	0 53 W	29 28	2	8.91 G5 1-1-1	AG 25
3:59	0 47 W	30 23	2	8.82 K0 1-1-1	AG 25 faint
4:5	0 51 W	26 46	2-1	8.50 K0 1-1-1	AG 25 dark stage just after 1/4 plate hole low clouds

Focus 12.992

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
19 06	W 036	25 17	3-2	8.56 G5 1,1,1	Q4. Drive creates
19 27	W 1 02	26 16	2	8.96 G5 1,1,1	Terrible train smoke 1952 Drive creates - very!
20 20	W 1 17	25 26	2	8.98 K0 1,1,1	
20 59	W 1 17	29 44	2	8.86 K0 1,1,1	
21 35	W 1 16	26 55	2	8.96 K0 1,1,1	
22 05	W 1 17	26 07	3-2	8.92 G5 1,1,1	
22 25	W 0 55	28 04	2	8.93 K0 1,1,1	
23 03	W 0 43	29 20	2	8.91 M0 1, 2	Thick 10 min after start
	CTE			6/4	

Date

Friday, April 2, 1954

Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	SHC	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
15230	H.D. 200579	20 32	25 59	I-12 $\frac{1}{2}$	L11358	550	-19.4	22 41	21 15	1
15231	AS 2327 80+30°44'7"	21 18.5	30 16	-	-	-	-19.3	21 20	20 05	2
15232	H.D. 215300	22 33	29 07	-	-	-	-19.4	22 21	20 59	3
15233	" 215638	23 04	30 27	-	-	-	-19.3	23 07	21 41	4
15234	" 2254 00 853	27 16		-	-	-	-19.3	23 46	20 24	1
15235	" 2262 00 405	27 32		-	-	-	-19.3	21 22	21 14	2
15236	" 2284 01 22 4	32 24		-	-	-	-19.3	21 17	21 21	3
15237	" 1462 02 16 6	23 49		-	-	-	-19.3	21 25	22 11	4
	<i>Focus Test</i>									
15238	H.D. 2207 04 22 7	28 56		-	-	-	-19.2	22 29	24 14	
15239	" 2207 04 22 7	30 14		-	-	-	-19.1	24 23	24 24	
	<i>Focus Test</i>									

FOCUS?

Clouds early evening, shows with
 late egg ^{of} ~~with~~ ^{of} ~~with~~

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp	REMARKS
21:00	38 W	26 10	2	8.92 K2	1-1-1	AG. 25 sky haze
21:05	38 W	30 58	2	8.91 M0	1-1-1	" " 1-1-1 faint
21:10	43 W	29 21	2	8.91 M0	1-1-1	" "
21:15	54 W	30 54	2	8.88 K6	1-1-1	" "
21:20	1:00 W	27 23	2	8.92 G5	1-1-1	" "
21:25	0:31 W	27 45	2	8.77 G5	1-1-1	" "
21:30	0:43 W	25 39	2	8.96 K6	1-1-1	" " VERY Faint COMPONENT 1-1-1
21:35	0:24 W	26 23	2	8.91 G5	1-1-1	" " clouds thick - cloud up. 1-1-1
		O.T.B.			4/4	1-1-1
						3 P.H. # 4
21:40	0:00 W	29 24	2	8.96 G5	1-1-1	AG. 35
21:45	0:21 W	30 17	2	8.96 K7	1-1-1	" " some clouds 1-1-1
		O.T.B.			6/4	1-1-1
						3 P.H. Plus noted.

Date Sat. Oct 2-2 1948 HD-O/L Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
15240	HD 211 884	22 15.2	25 28	1 12	L-10340	506	12.0	22 05	22 43	3
15241	HD 218 113	23 00.3	27 40	"	"	"	12.9	22 46	23 16	4
15242	HR 219 654	23 12.4	29 20	"	"	"	12.9	23 19	23 59	1
15243	HD 45449	02 42.4	26 34	"	"	"	12.8	00 02	00 41	2
15244	" 5317	01 35.6	28 29	"	"	"	12.7	00 46	01 24	3
15245	" 12426	01 35.7	29 17	"	"	"	12.7	01 38	02 34	4
15246	" 25671	03 14.6	28 27	"	"	"	12.6	02 39	03 28	1
15247	" 23169	03 31.9	25 25	"	"	"	12.6	03 32	04 22	2
15248	" 33423	05 15.3	29 15	"	"	"	12.5	04 26	05 12	3
15249	" 41430	06 00.0	29 06	"	"	"	12.5	05 06	05 42	4
	Focus Test					O.T.B.				

5 water down Biggins with 20"

290

Ending Time
E.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Focus	17.971	REMARKS
00 15 W	+25 28	0+	7.58 K ₂	1-1-1	AG-25	Intermittent double sun spots until about 9:40 EST. fine
00 43	-17 56	0	8.74 K ₂	1-1-1	"	fine
01 14	24 35	0	8.70 K ₅	1-1-1	"	comp. note fine
02 26 W	26 49	0	8.68 G ₅	1-1-1	"	fine
03 42 W	28 43	0	8.82 G ₅	1-1-1	"	fine
04 40 W	29 30	0	8.98 G ₅	1-1-1	"	guiding fine
05 40 W	29 57	0	8.83 G ₆	1-1-1	"	fine
06 41 W	29 53	0	8.34 G ₃	1-1-1	"	comp. note fine
07 42 W	29 50	0	8.51 M ₆	1-1-1	"	fine
08 42 W	29 04	0	8.58 K ₂	1-1-1	"	fine
				6/4		with 3. 1 ypb's colder location

Date

Sun Oct 3-4 1948 ~~Bo. 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
15250	AG 10108 AG 10108 AG 10108	17 383	25 13	5 12	AG 108	1008	11.8	1923	1948	
15251	AG 11233	20 197	37 30	"	"	"	11.8	2012	2034	2
15252	HD 211074	21 009	42 48	"	"	"	11.8	2043	2111	3
15253	HD 205740	21 329	45 10	"	"	"	11.8	2118	2142	4
15254	HD 210118	21 049	43 27	"	"	"	11.8	2147	2205	5
15255	HD 207712	21 451	47 32	"	"	"	11.8	2211	2227	6
15256	AD 17710	21 000	45 76	"	"	"	11.8	2235	2253	7
15257	AG 11125	18 022	25 13	"	"	"	11.8	2258	2315	8
15258	HD 214453	21 510	43 44	"	"	"	11.8	2324	2342	9
15259	HD 21404	22 001	49 33	"	"	"	11.8	2345	2407 $\frac{1}{2}$	10
15260	"	22 410	53 11	"	"	"	11.8	00 11	00 33	11
15261	"	22 041	52 42	"	"	"	11.8	00 37	01 01	12
15262	AG 910	21 245	38 40	"	"	"	11.8	01 04	01 35	13
15263	HD 211010	21 000	45 01	"	"	"	11.8	01 01	01 54	14
15264	"	21 239	43 41	"	"	"	11.8	01 02	01 24	15
15265	"	21 241	43 11	"	"	"	11.8	01 27	01 57	16

focus reading

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
193	45 W	25 15	2-3	8" 99	1-1-1 ? Wrong Star <i>Wright Star</i> <i>position in RA not correct</i>
203	46 W	25 37	2-3	8" 77	1-1-1 AG 25 <i>edge visible</i>
213	50 40 W	25 20	2-3	8" 86	1-1-1 AG 25
222	51 41 W	25 23	2-3	8" 85	1-1-1 AG 25
231	52 W	25 28	3	8" 89	1-1-1 AG 25
241	53 10 W	25 38	3	8" 93	1-1-1 AG 25 <i>" very faint</i>
251	54 21 W	25 4	3	8" 98	1-1-1 AG 25 <i>" not ; faint</i>
261	55 17 W	25 21	3	8" 97	1-1-1 AG 25 <i>some stars, faint</i>
271	56 10 W	25 42	3	8" 87	1-1-1 AG 25 <i>" faint</i>
281	57 19 W	25 47	3	8" 86	1-1-1 AG 25 <i>" faint</i>
292	0 14 W	25 36	3	8 62	051-1-1 <i>64 10 10</i>
302	0 20 W	25 57	3	8 62	051-1-1 <i>field uncertain</i>
311	0 26 W	26 16	3	8 77	051-1-1 <i>field uncertain</i>
321	0 31 W	26 11	3	8 67	051-1-1 AG 25
332	0 37 W	26 44	3	8 73	051-1-1
342	0 44 W	26 21	3	8 73	051-1-1

THIS SITE EAST OF SK 372 WOULD SAY 9.7'

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
0 15 W	25 37	3	7.28	FS	AG 52 wrap star. fine
0 18 W	25 48	3	7.28	FS	wrap star. fine too strong comp for weak
0 21 W	24 51	3	6.99	FS	fine
0 24 W	24 36	3	8.52	FS	needed 152260! fine
	G.T.D.		6/4	1 P.H.	+ 5 centered.
					These are changing

Try frame 12.980

276

Frame 21 27.3800

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp.	REMARKS																					
10:04	28 15	0	8.34 G ₀	1-1-1	AG.25																						
10:07	29 47	0	8.38 G ₀	1-1-1																							
10:13	29 34	0	8.34 G ₀	1-1-1																							
10:46	30 47	0-1	8.96 G ₀	1-1-1																							
11:04	30 26	0-1	8.33 G ₀	1-1-1		Heavy clouds - stop you																					
	C.T.B.			6/4																							
						During heavy clouds, bearing nearest - clouds.																					
						3 P.H. loaded																					
						<table border="0"> <tr> <td></td> <td></td> <td></td> <td>MC</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Oct 9</td> <td>11:30</td> <td>WREN</td> <td>-1^m46^s</td> <td>MTW</td> <td>-12^s</td> <td>STW</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>+0.2</td> </tr> </table>				MC				Oct 9	11:30	WREN	-1 ^m 46 ^s	MTW	-12 ^s	STW							+0.2
			MC																								
Oct 9	11:30	WREN	-1 ^m 46 ^s	MTW	-12 ^s	STW																					
						+0.2																					

Date *Lat Oct 7-10 1900 W.G. / W.* Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
15275	HD 208793	21 19.0	+27 12.2	1-51	503	Vertical	+11.3°C	21 16	22 18	
15276	HD 221475	23 17.9	+20 50	"	"	"	+11.0	21 53	22 33	
15277	HD 221453	23 27.3	+24 30	"	"	"	+10.3	22 35	23 14	
15278	AD 2084	23 29.0	+50 23	"	"	"	+10.3	22 20	23 14	
15279	1300	21 19.2	+27 08	"	"	"	+11.0	21 18	21 52	
15280	175	23 12.2	+20 06	"	"	"	+11.0	21 51	22 31	
15281	213	23 22.0	+24 07	"	"	"	+10.9	22 50	23 22	
	<i>Stars Chart</i>									

Ba

Date 1948 Oct 13-14 ~~11-12~~ 5/2

Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.
15286	HD 12257	22 24 20.2	28 11	E 12	103A0	00951	+9	21 16	21 46
15197	HD 12117	22 20.2	28 11	"	"	"	+9	21 52	22 02
15293	HD 121153	22 20.2	28 11	"	"	"	8.9	22 10	22 20
15111	HD 12117	22 20.2	28 11	"	"	"	8.9	23 37	23 47
15248	AE 37	22 20.2	28 11	"	"	"	8.9	23 00	23 14
15191	HD 12117	22 20.2	28 11	"	"	"	8.9	23 23	00 53
15288	AE 37	22 20.2	28 11	"	"	"	8.9	00 04	00 46
15283	HD 12117	22 20.2	28 11	"	"	"	8.9	00 29	01 09
15289	HD 12117	22 20.2	28 11	"	"	"	8.9	02 57	03 31
15290	HD 12117	22 20.2	28 11	"	"	"	8.9	03 35	04 11
15291	HD 12117	22 20.2	28 11	"	"	"	9.0	04 14	04 54
15292	HD 12117	22 20.2	28 11	"	"	"	8.9	04 41	05 24
15293	HD 12117	22 20.2	28 11	"	"	"	8.9	05 21	06 04

Date

June 24 1948

Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Start Angle End
13859	HD 2714	01 20.0	22 40	T-151	E-100	200	+15.5	00 10	01 30	
13860	" 18430	01 32.2	20 24	"	"	"	+15.5	01 00	01 45	
13861	" 18450	01 34.1	20 20	"	"	"	+15.5	01 00	01 45	
13862	" 18462	01 35.1	20 15	"	"	"	+15.5	01 00	01 45	
13863	" 18470	01 35.2	20 10	"	"	"	+15.5	01 00	01 45	
13864	" 18485	01 35.3	20 05	"	"	"	+15.5	01 00	01 45	
13865	" 18494	01 35.3	20 00	"	"	"	+15.5	01 00	01 45	
13866	" 20446	02 01.1	25 00	"	"	"	+15.5	04 00	05 00	
13867	" 42381	00 08.0	23 17	"	"	"	+15.5	04 00	05 00	
13868	" 42312	00 18.0	23 07	"	"	"	+15.5	04 00	05 00	
	<i>Zone 1st</i>				<i>O.D.S.</i>					

From 12.980

Ending Time
E.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp	REMARKS
					Clouds all morning, clearing about 5:30 sharp for 23 - 25
19:10	38 03	1	8.55 G ₂	1-1-1	16.25
19:14	38 27	1	8.55 G ₂	1-1-1	
19:18	38 52	2	8.55 G ₂	1-1-1	
19:22	39 16	2	8.55 G ₂	1-1-1	
19:26	39 40	2	8.74 G ₂	1-1-1	
19:30	40 04	2	8.92 G ₂	1-1-1	
19:34	40 28	2	8.92 G ₂	1-1-1	
19:38	40 52	2	8.75 G ₂	1-1-1	13.25
19:42	41 16	2	8.75 G ₂	1-1-1	
19:46	41 40	2	8.59 G ₂	1-1-1	
19:50	42 04	2	8.59 G ₂	1-1-1	
				0.5	4.5 - 5.0

Date *Fri. Oct. 15-16, 1948.* ^{Ba} ~~W/41~~ Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
15309	H.D. 182256	19 18.7	25 08	I-1212	K152a	0.008	+12.5	18 12	19 02	3
15310	194403	20 20.3	25 26	"	"	"	+12.5	19 04	19 44	4
15311	A.G. 12135	21 02.6	30 05	"	"	"	+12.6	19 47	20 33	1
15312	H.D. 208641	21 52.6	27 32	"	"	"	+12.5	20 36	21 14	2
15313	A.G. 13568	22 31.2	29 35	"	"	"	+12.5	21 17	22 01	3
15314	H.D. 220256	23 17.5	28 58	"	"	"	+12.5	22 04	22 38	4
15315	224458	23 50.0	29 24	"	"	"	+12.5	22 46	23 10	5
15316	A.G. 36650	32.2	25 18	"	"	"	+12.5	23 14	23 48	6
15317	H.D. 4358	01 08.2	25 42	"	"	"	+12.5	23 51	00 05	7
15318	H.D. 12291	11 51.1	25 52	"	"	"	+12.5	01 29	01 43	8
15319	H.D. 13982	12 11.9	25 31	"	"	"	+12.5	01 31	01 45	9
15320	H.D. 14123	12 22.4	25 21	"	"	"	+12.5	01 38	01 52	10
15321	H.D. 15739	12 58.8	25 07	"	"	"	+12.5	01 41	01 55	11
15322	H.D. 17122	13 40.1	24 51	"	"	"	+12.5	01 44	01 58	12
15323	H.D. 18505	14 21.4	24 35	"	"	"	+12.5	01 47	02 01	13
15324	H.D. 19888	15 02.7	24 19	"	"	"	+12.5	01 50	02 04	14

Home temp. start +54°F.

Try from 12.970
Focus set 12.970

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Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Remarks
19.04	1 01 W	+25 15	0	8.54 G0	1-2-1 scattered cloud + haze at start, not visible!
19.04	0 42 W	25 45	0-1	8.72 K51-2-1	
20.02	0 49 W	30 15	0-1	8.91 G51-2-1	
21.14	0 40 W	27 45	1	8.89 G51-2-1	
22.01	0 43 W	29 50	1	8.95 G01-2-1	
22.07	0 39 W	29 59	1	8.96 G51-2-1	
22.12	0 36 W	29 41	1	8.89 K01-2-1	
22.18	0 34 W	25 33	2	8.99 G51-2-1	number nearly touches comparison
22.22		25 58	3	8.85 K21-2-2	
22.28			0	8.85 K1-2-2	numbered 15319
22.34			2-3	8.85 K1-2-2	Wrong star identified on programme
22.40			3	8.85 K1-2-2	
22.46			3	8.91 K1-2-2	only partly visible
22.52			3	8.91 K1-2-2	partly visible
22.58			3	8.91 K1-2-2	partly visible
23.04			3	8.91 K1-2-2	partly visible
23.10			3	8.91 K1-2-2	partly visible
23.16			3	8.91 K1-2-2	partly visible
23.22			3	8.91 K1-2-2	partly visible
23.28			3	8.91 K1-2-2	partly visible
23.34			3	8.91 K1-2-2	partly visible
23.40			3	8.91 K1-2-2	partly visible
23.46			3	8.91 K1-2-2	partly visible
23.52			3	8.91 K1-2-2	partly visible
23.58			3	8.91 K1-2-2	partly visible

Ending Time
E.S.T.Hour Angle
End

Declination

Seeing

Ptg. Mag.

REMARKS

71 31

1

875 14

2-2-2

71 14

1

875 14

2-2-2

59 40

1-2

875 14

2-2-2

wrong star taken

57 27

1-2

875 14

2-2-2

*plate numbered
15 238*

57 12

1-2

875 14

2-2-2

56 54

1-2

875 14

2-2-2

56 38

1-2

875 14

2-2-2

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

	NC	SC	MTW	STW
Oct. 20	-1° 59.8	+1° 24.2	-3.0	0.0

Date

Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Star Angle Etc.
15333	AG 10571	22 06.3	+25 19	"	"	"	5.9	1917	1945	
15334	AG 10579	22 06.3	+25 19	"	"	"	5.9	2004	2104	
15335	AG 10580	22 06.3	+25 19	"	"	"	5.9	2107	2137	
15336	AG 10581	22 06.3	+25 19	"	"	"	5.9	2243	2307	
15337	AG 10582	22 06.3	+25 19	"	"	"	5.9	2315	2335	
15338	AG 10583	22 06.3	+25 19	"	"	"	5.9	2343	2400	
15340	AG 991	01 44.0	28 12	"	"	"	5.9	00 06	00 16	
15341	HD 16099	02 30.1	59 26	"	"	"	5.9	00 54	01 15	
15342	18403	02 52.3	26 26	"	"	"	5.9	01 18	01 21	
15343	23169	03 37.9	25 25	"	"	"	5.9	01 54	02 16	
15344	25834	04 00.6	30 00	"	"	"	5.9	02 30	02 46	
15345	27741	04 17.6	27 50	"	"	"	5.9	02 49	03 21	
15346	32447	04 55.2	20 14	"	"	"	5.9	03 21	03 36	
15347	33142	05 38.5	24 23	"	"	"	5.9	03 55	04 19	

From 12930
 June 1941

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Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
			2-3	10m07 G. 2-2-2	<u>is this part to front?</u> Yes
	W	26 31	1-2	8 ^m .86 KO 2-2-2	very faint
	W	28 41	2-3	8 ^m .87 K 2-2-2	very faint
	W	28 29	2	8 ^m .87 K 2-2-2	very faint
	W	28 18	2	8 ^m .87 K 2-2-2	very faint
	W	28 10	2-3	8 ^m .86 K 2-2-2	numbered 15338
	W	28 09	2-3	8 ^m .87 K 2-2-2	very faint
	W	28 05	2-3	8 ^m .87 K 2-2-2	very faint
0 40 W		28 26	2-3	8.88 G. 5 1-2-1	
0 22 W		29 39	2-3	8.92 K. 1-2-1	
0 36 W		27 09	2-3	8.90 G. 1-2-1	
0 16 W		25 33	2	8.84 G. 1-2-1	
2 44 W		30 37	3	8.96 K. 1-2-1	
2 41 W		28 04	3	8.93 G. 1-2-1	
0 33 W		30 19	3	8.96 K. 1-2-1	very faint
0 17 W		24 51	3	8.99 G. 5 1-2-1	

Date *Wed. Oct. 20. 1948* W. Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle
15348	H.D. 42951	06 05.7	+23 17	I-12	E10320	008	+5.9	04 22	05 08	1
15349	49500	06 43.6	25 36	"	"	"	5.8	05 10	05 24	2
15350	54370	07 03.5	26 40	"	"	"	5.8	05 26	05 38	3
15351	56224	07 11.1	26 33	"	"	"	5.8	05 41	05 53	4
15352	60298	07 28.7	25 09	"	"	"	5.8	05 56	06 06	5
<i>Focus Test</i>										

Ending Time E.S.T.	Hour Angle End	Declination	Scoring	Ptg. Mag.	Comp.	REMARKS
05 22	0 38 W	25 16	3	9.3	K ₀₁₋₂₋₁	stop
05 24	0 18 W	25 32	3	8.51	K ₂₁₋₂₋₁	stop
05 38	0 12 W	26 36	3	8.84	K ₀₁₋₂₋₁	fine
05 53	0 20 W	26 26	3	8.51	K ₀₁₋₂₋₁	stop
06 06	0 16 W	25 03	3	7.92	G ₀₁₋₂₋₁	in it to stop
		OTB			6/4	
						4 P.H. LOADED 14 IN DOME

Date *Thurs. Oct 22, 1914* *VI - V*

Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.
15353	HD 204825	21 05.7	126° 12'	T 11"	L 100	0.15	+6.0	10 23	10 43
15354	HD 190457	21 05.7	126° 12'	"	"	"	+7.0	20 10	20 17
15355	AG 13310	23 00.5	120° 52'	"	"	"	+7.0	21 20	22 11
15356	HD 508	00 00.3	128° 06'	"	"	"	+7.0	25 10	25 18
15357	HD 3462	00 01.3	128° 12'	"	"	"	+7.0	25 03	25 29
15358	AG 1077	01 01.7	125° 12'	"	"	"	+7.0	23 53	24 31
15359	HD 11875	02 10.0	127° 13'	"	"	"	7.9	00 37	01 23
15360	H.D. 19485	03 02.8	25 13	"	"	"	7.9	01 25	02 01
15361	24399	03 47.8	26 36	"	"	"	7.9	02 04	02 38
15362	27741	04 17.6	27 33	"	"	"	8.0	02 40	03 28
15363	AG 2603	12 22.0	28 13	"	"	"	7.9	03 32	04 20
15364	H.D. 4445	22 05.7	29 01	"	"	"	7.9	04 22	05 08
15365	51314	22 02.8	27 55	"	"	"	8.0	03 10	03 44
15366	59684	07 24.0	27 21	"	"	"	7.9	05 47	06 09

Focus Test

Some objects of interest in this - but not
that many.

Full night 1968 10-27

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
		+16 44	2-	8.55 MG 1-2-1	AG 25
	0 ^w 58	+29 25'	D	8.90 NG 1-2-1	AG 25
		+30 38'	2-	8.95 G5 1-2-1	AG 25
	0 55	-23 11'	2+	8.79 MG 1-2-1	AG 25
	0 59	-23 54'	2+	8.57 MG 1-2-1	AG 25
	0 ^w 24	+25 32'	1-0	8.93 G0 1-2-1	AG 25
01 25	0 46 W	27 25	1	8.70 NG 1-2-1	AG 25
02 01	0 40 W	25 25	1	8.70 G5 1-2-1	"
02 38	0 32 W	26 45	1	8.77 G5 1-2-1	"
03 20	0 52 W	28 05	1	8.93 G0 1-2-1	"
04 10	0 26 W	29 15	1	8.70 G0 1-2-1	TOP FAINT FOR 8.70
05 05	0 44 W	29 30	1	8.68 G5 1-2-1	*HAS A VERY FAINT BLUE COMPONENT.
06 17	0 32 W	24 50	1	8.68 K0 1-2-1	AG 25
06 22	0 25 W	27 14	1	8.37 K0 1-2-1	"
		O.T.B.		9/4	

B.P.H. ACQUIRED + 12 IN DOME

Date Nov. Oct 25-26/40 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
15367	H.D. 15304	20 125	29 45	T-123	Emuls-0	500	+10.5	18 25	19 15	3
15368	AG 12013	22 371	26 51	"	"	"	+10.5	19 20	20 22	9
15369	HD 179650	22 001	29 28	"	"	"	+10.4	20 22	21 05	4
15370	<u>HD 217351</u>	<u>22 550</u>	<u>29 32</u>	"	"	"	+10.3	21 13	21 41	3
15371	HD 121170	22 240	29 32	"	"	"	+10.2	21 44	22 30	1
15372	" 1506	20 191	28 51	"	"	"	+10.1	22 11	22 43	1
15373	" 2713	18 256	27 24	"	"	"	+10.1	22 24	23 20	1
15374	" 1389	00 325	25 47	"	"	"	+10.0	22 54	23 18	3
15375	" 9638	01 044	28 36	"	"	"	+10.0	23 17	23 37	7
15376	" 10766	01 412	26 34	"	"	"	+10.0	23 41	00 01	0
15377	" 12012	01 332	28 23	"	"	"	10.1	00 06	00 30	1
15378	" 15499	02 001	29 26	"	"	"	10.1	00 24	00 51	1
15379	" 15493	02 072	28 26	"	"	"	10.1	00 38	01 03	1
15380	" 20212	02 141	28 27	"	"	"	10.1	01 02	01 26	1
15381	" 20421	02 202	28 26	"	"	"	10.1	01 22	02 13	1
15382	" 20424	02 219	28 26	"	"	"	10.1	01 40	02 43	1

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

Oct 25 2000 11^h 37^m -04^s 296

From 1250

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp.	REMARKS
11:20	19 57	09 57	0-1	8.93 K2	1-1-1	15.25 } 20 2.5
11:25	19 59	17 05	1	8.91 B5	1-1-1	" } 11 7.5
11:30	19 59	22 43	1-2	8.9 K5	1-1-1	" } 20 6.5
11:35	19 59	27 48	2	8.4 A2 8.7	1-1-1	" } 7.5
11:40	19 59	34 35	2	8.83 K5	1-1-1	" } 50 3.5
11:45	19 59	40 07	2-3	8.99 G5	1-1-1	" } 7.5
11:50	19 59	45 50	3	8.99 B5	1-1-1	" } 50 2.5
11:55	19 59	50 03	3	8.92 G5	1-1-1	" } 7.5
12:00	19 59	54 50	3	8.95 K5	1-1-1	" } 50 2.5
12:05	19 59	59 07	3	8.94 G5	1-1-1	" } 7.5
12:10	20 00	03 46	1	8.93 B5	1-2-1	" } 20 2.5
12:15	20 00	07 12	2	8.92 K5	1-1-1	" } 7.5
12:20	20 00	10 04	2	8.90 G5	1-1-1	" } 50 2.5
12:25	20 00	13 35	3	8.94 G5	1-1-1	" } 7.5
12:30	20 00	17 02	3	8.95 G5	1-1-1	" } 20 2.5
12:35	20 00	20 27	0	8.95 B5	1-1-1	" } 7.5

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Remarks	REMARKS
01:00	26 11	3	2.91	6.51-2.1	2.91	1.0
02:00	27 11	3	2.92	6.51-2.1	2.92	1.0
03:00	28 27	3	2.91	6.51-2.1	2.91	1.0
04:00	29 15	3	2.91	6.51-2.1	2.91	1.0
05:00	30 17	3	2.91	6.51-2.1	2.91	1.0
	O.T.B.		88	4		
2 P.M. + 2 IN DOME						

Date Tuesday, Oct 26-27 Nov - IV Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.
15 387	HD 107207	20 27 30	+25 15	"	"	"	11.9	18 21	18 45
15 388	HD 11813	20 30 42	+25 20	"	"	"	11.7	18 07	18 21
15 389	HD 205018	21 07 40	+20 56	"	"	"	11.7	18 30	18 43
15 391	HD 213 237	22 23 3	+21 14	"	"	"	11.6	20 15	20 47
15 392	HD 212 510	23 01 3	+25 13	"	"	"	12.6	21 25	21 51
15 393	HD 21 22	18 20 6	+25 13	"	"	"	11.6	21 50	22 20
15 394	HD 3 411	18 20 1	+25 34	"	"	"	11.6	22 25	22 45
15 395	HD 5 440	01 27 7	+25 21	"	"	"	11.6	22 57	23 15
15 396	AG 266	01 4 3	+25 13	"	"	"	11.6	23 23	23 45
15 397	HD 11 120	01 41 2	+25 15	"	"	"	11.6	23 51	00 18
15 398	"	10 0 17	08 23	"	"	"	12.6	00 18	00 48
15 399	"	15 2 22	21 09	"	"	"	12.6	00 21	01 18
15 400	"	20 6 50	27 24	"	"	"	12.6	01 20	01 42
15 401	"	22 3 22	24 21	"	"	"	12.6	01 26	02 22
15 402	"	17 7 41	24 15	"	"	"	12.7	02 24	03 00
15 403	"	25 2 6	25 32	"	"	"	12.6	03 04	03 32

Focus 12.572 (10)

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	RA	Dec	AG	REMARKS
1:00	20h	+03°10'	1-	B.3385	1-2-1	2451-24-2.5	AG 25	5.1 mag
1:05	20h	+03°20'	2	B.3280	1-2-1	2452-24-2.5	AG 25	5.2 mag
1:10	20h 31	+03°11'	2	B.3060	1-2-1	Set 2.57 AG 25	AG 25	5.3 mag
1:15	20h 30	+03°25'	2-	B.72K0	1-2-1	Set 2.57 AG 25	AG 25	5.4 mag
1:20	20h 31	+03°27'	2-	B.38K0	1-2-1	Set 2.57 AG 25	AG 25	5.5 mag
1:25	20h 32	+03°35'	3	B.23K5	1-2-1	Set 2.57 AG 25	AG 25	5.6 mag
1:30	20h 35	+03°51'	3	B.03K0	1-2-1	Set 2.57 AG 25	AG 25	5.7 mag
1:35	20h 40	+03°50'	3	B.35K5	1-2-1	Set 2.57 AG 25	AG 25	5.8 mag
1:40	20h 38	+03°17'	3-	B.30K0	1-2-1	Set 2.57 AG 25	AG 25	5.9 mag
1:45	20h 37	+03°23'	2-	B.73K0	1-2-1	Set 2.57 AG 25	AG 25	6.0 mag
1:50	20h 41	29 19	3	298 K	1-2-1	Set 2	AG 25	6.1 mag
1:55	20h 42	30 22	3	291 K	1-2-1	Set 2	AG 25	6.2 mag
2:00	20h 44	26 46	3	274 G	1-2-1	Set 2	AG 25	6.3 mag
2:05	20h 44	26 22	3	272 G	1-2-1	Set 2	AG 25	6.4 mag
2:10	20h 44	26 24	3	273 G	1-2-1	Set 2	AG 25	6.5 mag
2:15	20h 43	26 13	3	260 M	1-2-1	Set 2	AG 25	6.6 mag

Ending Time
E.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS										
20.4	22.4	3	3.75 G.5	1-2-1 Off 25 Per cent of day 6/4 Sat. 7 water slightly to 100										
	O.T.B.													
				f.P.H. + 1										
				<table border="0"> <tr> <td></td> <td>nc</td> <td>sc</td> <td>MTW</td> <td>STW</td> </tr> <tr> <td>Oct. 27</td> <td>-01.8</td> <td>+34.5</td> <td>+05.8</td> <td>+0.6^m</td> </tr> </table>		nc	sc	MTW	STW	Oct. 27	-01.8	+34.5	+05.8	+0.6 ^m
	nc	sc	MTW	STW										
Oct. 27	-01.8	+34.5	+05.8	+0.6 ^m										

364

me Ending Time
E.S.T.

305

