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7

If focus test is centre to violet, shorten the focus, i.e. increase micrometer readings

readings

2

3

Dome lamp...

Focus

Dome lamp...

Four legs
Ez

Dome Temp. + 33° F.

locus.....1290.....

Home Temp. +17°F

Transparency Conditions Fine

23.40 post, clow

beget - wild -

[illegible]

THUR-FRI
Date... APR 3-4 1959

Observer.....DA - Ar.....Julian Day

[illegible]

10

Room Temp. 73.4

[illegible]

1959

Date Saturday-Sunday April 5-6Observer Hd

Hd

Dg - Bk

Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.	How long Ex.
24643	HD 97438	11 ^h 07.7	+60° 18'	I-12	103A0	.016	+6.0°C	21 55	23 11	1	1.5W
24644	possibly H.D. 115183 HD 114725	13 10.4 13 07.3	+16° 43' +16° 40'	"	"	.008 Set .016	+5.9°C	23 40	00 30	2	0.0E
24645	+10 95975	10 59.2	+60 06	"	"	.016		00 42	01 32	3	3.0W
	Focus test	O.T.B.				.008					

Dome Temp. +37°F

Transparency Conditions

12

Focus

Dome Temp.

75 visitors. Moved ♂ 14d-Dg.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0 ^h 34W	+59° 57'	0	9.81	A8	1-1-1	XT5 KAFS	ser. 9 9739-9769 fine (good)
0 10E	+16° 23'	0	^{8.63} 7.76	^{K2} F2	2-2-2	XT5 Kapteyn 8x8 wrong star	ser. 7 9771-72
1 32 300W	59 46		9.85	F7	1-	4 5 KAFS	changed to ser. 8 9772-79 at 800'00 plus 10 9780-9791
						clouded out.	Too weak
					8/6	4 8	
						1PH Plates needed	

13

Date Mon-June Apr 6/7 1919 Observer MR - Li Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	F	How long exp.
816-90	8 Mon	8 ^h 06.6 ^m	-02° 53'	SWW	-3600	10	6/3	19:39			
817-90	HR 3314	8 23.7	-03 47	H8	x2	20	5/4	20:13			
818-90	η Hya	8 41.1	+03 32	"	"	"	"	20:30			
819-90	K Hya	9 38.4	-14 09	H8	x 4	"	5/6	20:49			
820-90	α Leo	10 06.1	+12 11	H8	x 2	"	4/4	21:40			
821-90	η Leo	10 05.2	+16 58	"	"	"	5/3	21:56			
822-90	ρ Leo	10 30.6	+9 31	"	"	"	"	22:10			
823-90	θ Leo	11 12.1	+15 39	H8 x2	plus (SWW) 3600	20 & 10	"	22:25			
824-90	61 UMa	11 35.0	+34 26	SWW	-3600	10	"	23:16			
825-90	β Vir	11 48.6	+02 00	"	"	"	5/6	23:32			
826-90	β CVn	12 31.8	+41 34	"	"	"	6/2	23:51			
827-90	31 Com	12 ^h 49 ^m .8	+27° 45'	"	"	"	6/4	00:23			
828-90	σ Boo	14 ^h 32 ^m .7	-23° 55'	"	"	"	6/2	0:33			
	80 UMa	13 ^h 22 ^m .6	+55° 12'	"	"	"	"				
829-90	η UMa	13 ^h 46 ^m .0	+49° 31'	H8	x 3	Set 20	4/4	01:18			
		continued		next	page						

Dome Temp. $+38^{\circ}\text{F}$ Transparency Conditions *excellent*

19

Focus.....

Dome Temp.....

Dg's shutter ones : 25 frames
(W.E.A.)ending Time
E.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
"	"	5"	4.4	G2 Ib	30"	4A/sec, 2"/min	
-3° 49'	"	"	3.95	A0 V	"	1A/sec, " List D 4260-4530	
+3 32	"	"	4.32	B3 V	"	" " "	
-14 11	"	"	4.58	B5 V	"	" " "	
+12 07	"	"	1.21	B7 V	"	" " "	
"	"	"	3.6	A0 Ib	"	" " "	
+9 27	"	"	3.71	B1 Ib	"	" " "	
...	"	"	3.19	A2 V	"	" " " \$ 4A/sec @ slf 10	
...	"	"	5.5	G8 V	"	4A/sec List H	
+ ...	"	"	3.8	F5 V	"	" " H	
+41 33	"	"	4.3	G0 V	"	" " H	
+27° 44'	"	"	5.1	G0 III	"	" " H	
+29° 55'	7"	"	4.5	F2 V	"	" " H	
			4.0	A5 V	"	" " H <i>beautiful</i>	
+49° 29'	7'	"	1.60	B2 V	"	1A/sec, 2"/min List D 4260-4530	

15.

Date _____

April 6/7

Observer.

- Li

Julian Day

[illegible]

Dome Temp.....

Transparency Conditions

Good

16

Focus.....

Dome Temp.....31°F

ding Time
E.S.T.Hour Angle
End

Declination

Seeing

Ptg.
Mag.

Sp.

Comp.

REMARKS

Quality

+64° 33'

7"

3.59

A0III

30"

1A/sec, 2"/min, list D, 1260-4530

+02° 02'

6"

3.74

A0IV

30"

" , " , " , " , "

+26° 50'

9"

2.21

A0V

30"

" , " , " , " , "

4.56

A1V

"

(needs field) "

+25° 01'

4"

5.0

F5V

30"

4A/sec, 2"/min, list H

+46° 23'

5"

3.73

B5IV

30"

1A/sec, list B, 4260-4530

-10° 29'

9"

2.57

09.5V

30"

(clouds for six minutes) "

+02° 42'

7"

3.76

A0V

30"

" , " , " , " , "

+02° 54'

6"

4.00

B5IV

30"

" , " , " , " , "

+58° 44'

5"

4.85

A1V

30"

" , " , " , " , "

+38° 43'

12"

0.04

A0V

30"

(clouds + 0) " , " , "

Date Sun April 12-13/59 Observer L-HV Julian Day 174

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.
24646	BD+45° 1763	9.40.4	45 32	I-12½	E103A _a	Set .016	+5.4	20 40	0120	4
24647	" +60° 1598	15.14.3	60 08	"	"	"	5.5	01 36	040	-
24648 {	HD 157702	17 19.7	+18 56	"	"	008	5.5	04 29	0453	2
	Focus Test.	O 713				"				

Home Temp. 34°F

Transparency Conditions

Good

18

Focus.....

Home Temp.....

Clouds early evening.

Star	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
20 40442J		45 15	1	9.95	F8	1-1-1	K.A. FS Prog.	good
4-5W		59 54	0-1	9.84	F5	1-1-1	Set 5 " ← 9816 - 9883 #10	Looking
53 25032W		18 51	0-1	7.48	A0	2-2-2	" 5 KA 8x8 9890 - 9899 #8	Looking
						8/6	" 9	OK
							2 PH + 8	
							Why no field drawn? 14ol.	

19

Date Mon Apr 13-14/59 Observer Ad (Bk) Li Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.
24649	BD+29° 1908	9 25.2	+29° 44'	I-12	E10300	016	+8.0	19 54	21 54	3
24650	BD+30° 1875	9 26.6	+30° 02'	"	"	"	"	21 58	23 38	4
24651	HD 100150	11 26.4	+18° 19'	"	"	008	+7.9	23 50	00:11	1
24652	HD 104381	11 ^h 56 ^m .1	+12° 56'	"	"	"	+7.9	00:23		2
	HD 107053	12 ^h 13 ^m .5	+33° 18'	"	"	"				
24653	HD 116634	13 ^h 19 ^m .8	+32° 37'	"	"	"	+7.9	00:51		3
24654	HD ¹¹⁷⁸¹⁵ 116634	13 ^h 27 ^m .7	+47° 46'	"	"	"	+7.9	01:26	01:46	4
24655	HD 119637	13 ^h 39 ^m .3	+46° 01'	"	"	"	+7.9	01:50	02:10	1
24656 A	HD 122585	13 ^h 54 ^m .5	+26° 18'	"	"	"	+7.8	02:10	02:42	2
B				"	"	"	+7.8	02:43	03:01	2
24657	HD 136244	15 ^h 14 ^m .5	+60° 29'	"	"	Set 016	+7.8	03:11	03:11	
	[0400 Spotter won't stop (I pulled the plug after 20 min)]									
24658	α Oph	17 ^h 30 ^m .3	+12° 38'	"	"	Set 008	+7.8	04:24	04:30	1
24659	67 Oph	17 ^h 55 ^m .6	+12° 56'	"	"	"	+7.8		04:41	+

Ime Temp.....34°F.....

Transparency Conditions *fair*

20

Obs. Time E.S.T.	Hur Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
57 ±	W 134°	29 27	1	9.93	G8	1-1-1	KAFS rem 9 start 9902 end 9930½	weak
384	O 318	29 45	0	9.73	F0	1-1-1	" " 9 start 9932 end 9962	L weak (fading)
	O 1° 3' W	17 57	0	6.99	A0	2-2-2	KA 8x8- 8 9972 9982	fine
	O 1° 3' + 2° 35'	(var) C	6.93	A0	2-2	Set 2 " "	9983 93	fine
			6.82	A5			unable to find in sky	
	O 1° 3' + 32° 17'	(var) O-1	7.55	A2	2-2-	Set 2 " "	9995 0005	fine
	O 1° 25' W + 47° 24'	30-2 (var!)	7.04	A5	4-2	Set 2 " "	0009 0014	fine
	O 1° 25' W + 45° 42'	"	7.68	KO	2-4	Set 2 " "	0016 0020	fine
	O 1° 25' W + 26° 00'	0 (var)			3-	Set 2 KA 8x8 S.W. fainter	0022 0027	fine
	O 1° 15' W	"			3-3	Set 3 KA 8x8 N.E. brighter	0027 0030	fine
	O 1° 25' + 60° 13'	1	9.08	K3	1-1-1	Set 2 KAFS	0034 0044	good
	end the Brown (Cyrtopod) count at last } Bul OK F.G.H. open 11 AM.							
	O 1° 25' W + 31° 34'	3	2.14	A5 II	0	Set 2 5+8 13+2 counts = 95	MK Std	all stars
	O 1° 25' W + 17° 15'	2	3.92	(SD)		Set 1 1+15 14+11		fine
						O.F.H. + 10		

Date Tu/We Apr 14/15 1959 Observer vdB - Hr Julian Day 175

[illegible]

Dme Temp. 50

Eous. 1

Dme Temp.

Transparency Conditions

Fine

22

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
20	1 ^h 02W	+29°03'	1-2	10.02	SB	1+1+1	Set 5 KAFS x 1 0075 - 140	fine
35	3 ^h 05W	+45°14'	1-2	9.95	F9	1+1+1	Set 5 KAFS 147	fine
40	334W	44 06	1	8.0	FS	2-2-2	Set 5 KAFS x 8 Sp. compact	fine
32	0033W	60 06	2	9.6	A8	1-1-1	Set 2 KAFS. #9 37 counts	fine
43	0214W	59 39	1-2	9.45	F5	1-2	" 2 " #9 36 "	good
						4/3	" 8 A few wisps of cloud.	OK.
							1 P. H. + 4.	
							Dome Tuning Cable Slipping.	

Date Apr 15/16/59

Observer.....Hr

Julian Day

[illegible]

me Temp.

us.

me Temp. $+51^{\circ} F$

Transparency Conditions

Strong wind from N.W. Cracking pool at
high Dec.

Ending Time E.S.T.	Star Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0342	0330W	5908	1.2*	8.36	Fap	2-2-2	Set 2. KA FS. *EXTINGUISH #8 10 counts	good
0406	0030E	4114	0	(7.6)	A3?	2-2-2	" " KA 8"x8" 5 #8 7 "	fine
						8/6	" 8 Haze + Thin Cloud.	
							3 P.H. Loaded.	
							Plates needed.	

Time Temp. 38°F

Ficus.....

Home Temp. $+37^{\circ}\text{F}$

Transparency Conditions

Good

26

[illegible]

< Date Wed-Thur Apr 22-23

Observer Sc - Hvr

Julian Day

[illegible]

Time Temp. $+49^{\circ}\text{F}$

Focus.....

Time Temp.....

Transparency Conditions *Poor, cloud: NW*

28

Sur Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
2:11 3 ^h 42 ^m V	59 18	2	9.3	F6	1-1	KAFS set 5 (only slow in ⁰³³⁰ Park Road see) Clouds 22 ^{hrs}	
						3 P.H. + 8	
						0045 Ran back dec. motion, Dec. guiding / setting motor gave up ghost. Fuses, diodes, relay seem ok.	
						MC SC MTW STW S SW ME Apr. 24. +10.9 -1^m 6.3 +1^m 44^s +1^m 40^s / -43 +5	
						Sat April 25 Cloudy with Thunderstorms 208 Visitors shown telescope and "Movie" Exploring the Universe "	
						MC SC MTW STW S SW ME Apr. 27 +14 -1^m 7.1^s +1^m 42^s +1^m 42^s / 49.6 +6	
						MC SC MTW STW S SW ME Apr. 29 +16 -1.7.5 +1^m 44^s +1^m 45^s / -50.5 +5	

Time Temp.....

Clearing about 11 P.M. E.S.T.

30

Ending Time E.S.T.	1st Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS		Quality
2:20	3422W	3258	<u>000</u>	6.82	A5	2-2-2	Set 2	KA-8°x8° Clouds #7 4 counts	<i>fine</i>
						8/6	" 2		
								2 P.H. + 8.	
								<u>Very Poor Night.</u>	

Date Apr 30-May 1/59 Observer Hel - Hr Julian Day 174.5

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.
24672	H.D. 95975	10 59.2	60 06	I-12	E ₁₀₃₀₀	046	11.2	20 08	22 06
24673	H.D. 96950	11 04.7	59 26	"	"	"	11.2	22 14	00 34
24674	" 136617	15 16.6	59 53	"	"	"	11.7	00 42	02 12
24675	" 172068sf	18.33.0	41 12	"	"	008	11.7	02 29	03 21
24676	" hp	"	"	"	"	"	11.3	03 22	03 54
	flows fort		OJB			"			

Dne Temp. 46 F

Rus. 12.90

Dne Temp.....37°F

Transparency Conditions

Sat. May 2-3

32

v_B lectured on solar system
and demonstrated Telescope to
100 visitors. Thick clouds - some rain

Ending Time E.S.T.	Alt Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
2 62	11 19	59 45	0-1	9.85	F7	1-1-1	KAFS <i>Trouble with differential dragging (field)</i> <i>Sono 9 start 445</i>	<i>count find</i>
34	42W	49 05	0	10.08	G5	1-1-1	KAFS <i>Sono 9 end 475</i>	<i>count find</i>
12	107W	59 37	0-1	9.75	Ksp	1-1-1	" <i>513</i>	<i>1 count</i>
32	0057E	41 12.5	0-1	(7.6)	A3	2-2-2	K A 8° X 8° <i>547</i>	
34	023E	"	0-1	(7.6)	A3?	2-4	" " <i>552</i>	
						8/6	" 8 <i>555</i>	
							IP.H. + 8?	
							<u>MC</u> +17 <u>SC</u> -1^m8.6^s <u>MTW</u> +1^m54^s <u>STW</u> +1^m50^s <u>S</u> -4 -4 <u>SW</u> -49.7 <u>ME</u> +6	

Date Sun - Mon, May 3/4, 1959 Observer BK - H✓ Julian Day 175

[illegible]

Dme Temp.....

34

May H. $\frac{MC}{+19}$ $\frac{SC}{-1^{M} 10.7^S}$ $\frac{MTW}{+1^{M} 55^S}$ $\frac{STW}{+1^{M} 55^S}$ $\frac{S}{-6.6}$ $\frac{SW}{-53}$ $\frac{ME}{+11}$

Date Tues/Wed May 5/6, 1959 Observer - Li Julian Day _____

[illegible]

Dme Temp. 53° F

Focus

Dme Temp. 56° F

Transparency Conditions clearing for a few minutes before 12
poor until after 1:00
good from 1:30 on

36

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
	0 ^h 07E	-10° 30'	2	2.70	095V		set 2 MK Std 1/2 count sel 5	
	0 ^h 04E	"	2	2.70	"	-	set 5 " 2 counts sel 5	
	0 ^h 01E	"	2	2.70	"	6	set 8 " 1 count sel 5	
	0 ^h 39E		2	2.14	A5 III	-	set 2 MK Std 1/4 count sel 5	
	0 ^h 36E		2	"	"		set 5 " 1/2 count sel 5	
	0 ^h 33E		2	"	"		set 8 " 1 count sel 5	
	0 ^h 49E	+17° 56'	0	6.51	B9	3-3	set 2 KA 8x8 2 counts sel 6	fine
	0 ^h 5E	+41° 13'	C	7.6	1.3	2-2-2	set 2 KA 8x8 1/7 0624 - counter not working	good
	0 ^h 5TE	+40° 55'	0	7.11	B9	2-2-2	set 2 KA 8x8	fine
							1 PH + 0	
							may 6.	
							MC SC MTW STW S SW ME	
							+21 -1M 11.8 +2M 02S +2M +10.5 -57.1 +2.	

Date Wed Thru May 6-7 Observer Se- Julian Day 151.5

[illegible]

Home Temp. +64° F

Focus.....

Home Temp.....

Transparency Conditions.....

21-10 Cloud Band in West, otherwise good.
lighting

38

ending Time
E.S.T.

Hour Angle
End

Declination

Seeing

Ptg.
Mag.

Sp.

Comp.

REMARKS

Quality

2.31

" 33° W + 60° 17

00

7.37

F8

2-2-2

KA 8x8

set 5

EX MTR. ⁶³² NOT
WORKING!

Date Thursth MAY 7-8 Observer Ru-Li Julian Day

Angle and
33° 4'
20°
10°

Date Fri/Sat May 8/9 1959 Observer Vol B - Bok Julian Day 151.5

[illegible]

the Temp. 52

15. 15.39

c1e Temp.....

Transparency Conditions Final

711 11
92

May 8 changed to 12 1/2" was Focus 12.90 25" is Focus 15.45
25" Camera Silt 20.25 Silt 23.15

[illegible]

Date Sat May 9-10/59 Observer Hd-Li Julian Day 161

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.
24691	H D 114762	13.07.5	+18.03	I-25	103a0	008	15.1	22 37	2
NOTE: The exposure was terminated because the star had 5:00 <u>hopeless</u>									
NOTE: The shutters do not close when you The observer has checked all the fuses that (those copper bus wires are just a ended up closing by hand. It just									
P.S. I predict that the Beatles will become the greatest band ever!									

Dme Temp.....

Transparency Conditions

15 Can Count C 44 * 2 can stay
- ad. 1. 1.05 (same on perog. on on)

150 visitors. Showed Leo, 173 with 74"
144, Li. 44

Ending Time E.S.T.	Air Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality																
2:08 W	17 41	00	7.86	F9V	4-4-4	Se 1+V.	Ex. data counts runs 8 start 658 (at 2234) about 1 in 6 min! inch 1671	good (Plate badly scratched)																
							failed to register one count in the last half hour!																	
							2 pH + 4																	
							push the button.																	
							he knows of, put the trolleys back on slat-ones, falling (and apart) and finally put a little oil on the cranks before Monday!																	
							Li																	
							<table><tr><td></td><td><u>MC</u></td><td><u>SC</u></td><td><u>MTW</u></td><td><u>STW</u></td><td><u>S</u></td><td><u>SW</u></td><td><u>ME</u></td></tr><tr><td>May 11</td><td>+26</td><td>-1^m16.1</td><td>+2^m27</td><td>+2^m10</td><td>STP₀</td><td>-1^m04^s</td><td>+07</td></tr></table>		<u>MC</u>	<u>SC</u>	<u>MTW</u>	<u>STW</u>	<u>S</u>	<u>SW</u>	<u>ME</u>	May 11	+26	-1 ^m 16.1	+2 ^m 27	+2 ^m 10	STP ₀	-1 ^m 04 ^s	+07	
	<u>MC</u>	<u>SC</u>	<u>MTW</u>	<u>STW</u>	<u>S</u>	<u>SW</u>	<u>ME</u>																	
May 11	+26	-1 ^m 16.1	+2 ^m 27	+2 ^m 10	STP ₀	-1 ^m 04 ^s	+07																	
							<table><tr><td></td><td><u>MC</u></td><td><u>SC</u></td><td><u>MTW</u></td><td><u>STW</u></td><td><u>S</u></td><td><u>SW</u></td><td><u>ME</u></td></tr><tr><td>May 13</td><td>+27</td><td>-1^m19^s</td><td>+2^m29^s</td><td>+2^m11^s</td><td>STP₀</td><td>-1^m07^s</td><td>+8</td></tr></table>		<u>MC</u>	<u>SC</u>	<u>MTW</u>	<u>STW</u>	<u>S</u>	<u>SW</u>	<u>ME</u>	May 13	+27	-1 ^m 19 ^s	+2 ^m 29 ^s	+2 ^m 11 ^s	STP ₀	-1 ^m 07 ^s	+8	
	<u>MC</u>	<u>SC</u>	<u>MTW</u>	<u>STW</u>	<u>S</u>	<u>SW</u>	<u>ME</u>																	
May 13	+27	-1 ^m 19 ^s	+2 ^m 29 ^s	+2 ^m 11 ^s	STP ₀	-1 ^m 07 ^s	+8																	

Date Wed May 13-14/59 Observer Hd - Li Julian Day 172

[illegible]

Time Temp. 44°F
 Focus 15.39
 Time Temp. 40°F

Transparency Conditions

Clearing after 11:00 - magnificent and 46
 Clouds and rain earlier in evening.

50 vignettes (engineering 3T5). Dg demonstrated telescope showed film.

Ending Time E.S.T.	Sur Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
1:25	23° W	+56° 55'	00	7.3	G1V	4-4-4	MK Std. sens 8 start 681 709	fine
2:25	44° W	-20° 24'	00	6.02	O9II	4-4	Set 2 MK Std sens 7 710-724	fine
		+12° 35'	0	2.14	A5 III	12	Set 2 MK Std sens 4 3 counts	fine
		"	0	"	"	-	Set 5 " " 2 counts	
	42° W	"	0	"	"	-	Set 8 " for much @? " 1 count	
						10/7		centre sl. to vi.
						3 pH + 0		
						May 15	$\frac{MC}{+29}$ $\frac{SC}{-1^m 21.5}$ $\frac{MTW}{+2^m 30^s}$ $\frac{STW}{+2^m 12^s}$ $\frac{S}{STW}$ $\frac{SW}{-1^m 10.5^s}$ $\frac{ME}{+16}$	

Date Fri May 15-16/59 Observer L⁻Lo - Dg Julian Day 155

[illegible]

Home Temp... +44°F

Humidity... 15.31

Home Temp... +36°F

Transparency Conditions

Some light clouds, 43

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0 76	4 40 W	10° 14'	0	8.71	G8V	4-4-4	Se H.V. 735	make
2 4	2 00 W	+25° 21'	0	7.88	G8V	4-4-4	" Very bright aurora 0762- ¹⁰⁰⁰ _{edges}	good
56	0 16 E	+24° 49'	0	6.71	F6V	4-4-4	" set 5	fine
						15/10 Focus Test	set 8	trans ok
							4 P.H. + 8	
							Note the error in numbering these plates.	

Date SUN May 17-18 Observer La Ru Julian Day 175

[illegible]

Dome Temp. +48

Focus 15.38

Dome Temp.

Transparency Conditions

Cloud to South.

50

Timing Time
E.S.T.Hour Angle
End

Declination

Seeing

Ptg.
Mag.

Sp.

Comp.

REMARKS

Quality

3 27

3^h 05^m

+47 53

0

8.66

G₂V

4-4-4

Set 5, Se - HV

Counted 4 after 20.
0806 - 0820

1 week

clouded out

3 P-H. + 8

Sky too thick for anything else.

Note the error in numbering

Counter stuck at 0820

Began to count when dome lights
went on.

Ma

Julian Day

[illegible]

ome Temp. 52°
 locus. 15.41
 ome Temp. 52°

Transparency Conditions

Very hazy

52

Tried fainter stars - hopeless.

Timing Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
1 29		"	1	1.91	B3 V	12 sec	2 Mk Sta atoms 4:3 counts	strong
1 25		"		"	"		5 " 2 "	strong
27		"		"	"		SeD 7.5 " 1 "	fine
31	00 48 E	$+49^{\circ} 28'$		"	"		10 " 4 "	strong.
Haze becoming thicker after midnight hrs.								
			May 20				$\frac{MC}{+33}$ $\frac{SC}{-29.6}$ $\frac{MTW}{+2^M 31^S}$ $\frac{STW}{+2^M 13^S}$ $\frac{SW}{-1^M 16.9}$ $\frac{ME}{+6}$ $\frac{S}{STOPPED}$	
			May 22				$\frac{MC}{+34}$ $\frac{SC}{-33.8}$ $\frac{MTW}{+2^M 07^S}$ $\frac{STW}{+2^M 14^S}$ $\frac{S}{STOPPED}$ $\frac{SW}{1^M 20.5}$ $\frac{ME}{+10}$	
Parking lot under construction.								
MAY 22-23/1959			rd B+Mai - Very muddy. Some groups were cancelled.					
			Cloudy 10:30 P.M. D.S.T.					
Sat MAY 23-24/1959			MR, Sr, Mai - 70 ^(visitors) visitors, cloudy, lecture & telescope demonstrated.					

Date Sun-Mon, May 24/25, 1957 Observer Lo BK - HV Julian Day 151

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.
24700	HD 129563	13 57.6	+10 11	I-25	103-a-o	Sc R '008	15.0	21 29	22 26	9
24701	HD 140283	15 37.8	-10 37	"	"	"	16.6	22 55	00 39	9
24702	HD 149105	16 27.4	48 11	"	"	V	16.5	00 53	03 39	10
	Star near 7 at O 7B					"				

bme Temp. 58
 bcus 5:43
 bme Temp.

Transparency Conditions Good

54

Delayed start because of Dec - slow-motion trouble
 L. called to fix it.

iding Time E.S.T.	bur Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality	
26	17 W	9 50	0.6	7.10	G0 V	4-4-4	Se - HV	855 895 923	l weak (summary)
39	10 43 N	10 51	0	7.68	F5 V	4-4-4	at 5 .. as far west as possible ..		two weak
33	30 W	48 02	0-2	7.57	G0 V	4-4-4	" 2 " # 7 952 14 counts		fine
						15/10	" 8 * Extinction 1" large. → Plate holder loose in inverting.		entire sl to me
3 P.H. + 4									
Range in Σx , 111 to 1000									
May 25							$\frac{MC}{+6}$ $\frac{SC}{-40.9}$ $\frac{MTW}{+1}$ $\frac{STW}{+1.5}$ $\frac{S}{STPD}$ $\frac{SW}{-27.1}$ $\frac{ME}{0.0}$		
May 27							$\frac{MC}{+7}$ $\frac{SC}{-43.7}$ $\frac{MTW}{+9}$ $\frac{STW}{+1.5}$ $\frac{S}{"}$ $\frac{SW}{-33}$ $\frac{ME}{-1}$		

Date Wed. May 27-28/59 Observer Hd - Hr Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.
24703	HD 116634	13 19.8	32 37	I-25	E103a10	008	24.8	22 10.	51 16
	7.7.1.		0.13						

Time Temp.....

Transparency Conditions

5-6

Haze + Cloud inv. inv. m. 14.

[illegible]

Date Shores May 28-29 Observer La-Mai Julian Day 171

[illegible]

hme Temp. 73°F
 Ecus 15.58
 hme Temp. 64°F

Transparency Conditions

Fair

58

Broken cloud at 23:30 (AFAJK)
 Pretty solid at 00:00
 00:16 Bright glimpse of H₂114 723
 Several rifts in sky - ONLY HAZE AT 01:00

Hour Angle E.S.T.	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
5 4 52W+16	16	0	7.76	F ₂	4-4-4	1K.A. 8'x8' ^{only 60% contrast} Sens 7. 1357- ^{set by sens 9 + pointer location}	^{pretty weak}
5 2 18W+16	10	0	7.57	A ₂	4-8	1K.A. 8'x8' ^{micrometers its way} Sens 8 1365 ^{NEW STAR}	^{too weak}
4 00 1 39W+17	54	0	6.51	B ₉	4-4-4 15/10	1K.A. 8'x8' ^{20"} Sens 9 at 3:00 ^{fine}	
						Sens 7 1376-87	
						4 P.H. + 0	
						ANOTHER CLOUD BANK RISING TO CLANK STAR 01:58 STAR 02:07 STAR 02:07 STAR 02:55 CLEARED UP 03:05 LIGHT CLOUD 03:07 counter cloudy frother because of rapidly approaching sunrise	
NOTE:- Light in visitor's eyepiece worked sporadically; suspect loose connection.							
may 29/66	MC	SC	MTW	STW	S	SW	ME
	+8	-49.5	+7	+8	STP	-38.2	-10

Date Sat. May 30-31, 1959 Observer ^{McC}Dg - ^{McC}BK Julian Day 1959159

[illegible]

Eme Temp. 65°F

Fcus. 15.53

Eme Temp. 60

Transparency Conditions Hazy

60

180 visitors was shown. α Can Ven and M3
by Bh, Dg, McC. - Dg demonstrated telescope.

Ending Time E.S.T.	Star Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
025	W	+06 16	0	7.82	F I	4-4-4	Se HV set 5 15/10 set g clouded out 2.5H in refrig. Plate needed	1350 1441
							June 1 mc sc MTW STW S SW ME +8 -57 +6 +15.4 " -45.1 -4	

Date Mon June 1-2/59 Observer L-VB-SR Julian Day 153

[illegible]

Dne Temp... 58°F

Fus.....

Dne Temp.....

Transparency Conditions.....

62

Correction to dec - 4 mins

Ending Time E.S.T.	Hor Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
13	6W	16° 00					Focusing on 23 Coma	v poor
12	12W	11° 56					↓	Fair
12	12W	13° 21						poor
12	30W	11° 36						poor under developed
13	44W	4° 01						under developed
12	1W	1° 43					Out of focus	under developed

63
6
Date June 2-3 1959 Observer VB, H. S. C. Julian Day

Plate No.	Object	R.A. 1900 1950	Declination -1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.
24714	M100 (NGC 4321)	12 ^h 20 ^m 4	+16° 06'	Newton	E103A0			21 ^h 31 ^m 30	21 ^h 31 ^m 30
24715	M88 (NGC 4501)	12 ^h 29 ^m 5	+14° 42'	"	"			22 ^h 12 ^m 10	22 ^h 37 ^m 10
24716	M90 (NGC 4569)	12 ^h 34 ^m 3	+13° 26'	"	"			22 ^h 58 ^m 20	23 ^h 13 ^m 50
24717	M60 (NGC 4649)	12 ^h 41 ^m 1	+11° 49'	"	"			23 ^h 25 ^m 30	23 ^h 40 ^m 30
24718	NGC 5364	13 ^h 53 ^m 7	+05° 15'	"	"			23 ^h 59 ^m 00	01 ^h 14 ^m 30
24719	NGC 5566	14 ^h 17 ^m 8	+04° 11'	"	"			00 ^h 20 ^m 30	00 ^h 25 ^m 30
24720	NGC 5846	15 ^h 04 ^m 0	+1° 48'	"	IN	+4.89		01 ^h 37 ^m 50	01 ^h 42 ^m 30
24721	NGC 6822	17 ^h 42 ^m 1	-14° 53'	"	"	+4.89		02 ^h 00 ^m 30	02 ^h 05 ^m 30

ne Temp.....

US

one Temp.....

Transparency Conditions

Correction to dec — 1 min

[illegible]

Date Ward 3-5 June 1959 Observer VB L SR Julian Day 175

[illegible]

Dome Temp.....

Transparency Conditions.....

66

Focus.....

Dome Temp.....

Correction to dec +3

ading Time
E.S.T.Hour Angle
End

Declination

Seeing

Ptg.
Mag.

Sp.

Comp.

REMARKS

Quality

3^h 19^m W +6° 22'

focus section o Ur

fair

+40^m W -29° 34'

Light streak

2^h 4 E -14° 49'

" " 15 Hg

ok

Date Thurs 4-5 June 59 Observer Hr VB Sr Julian Day 171

[illegible]

Date Hi 5-6 June 1959 Observer VB L Sr Julian Day.....

[illegible]

70

corr. to dec. + 6
corr. to R.A.

Time Temp.....

[illegible]

Date Sat June 6-7/59 Observer Holt & L Julian Day 171.5

[illegible]

Room Temp.....

locus. 15.45.

Some Temp.....

Transparency Conditions

1st & L spent $3\frac{1}{2}$ hrs trying to discover why spectrograph so slow. Nothing found very wrong, we think, but some things puzzling.

Starting Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
02 29 15			0-1	2.99	A0	no	} for exposure test	smooth
02 31						comp		fine
02 35	W 14 ^m					p.		strong

Date Sun-June 7-8/59 Observer ^(2Hd) Gai-Hv Julian Day 154

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.
24737	31 COM	12 46.8	+28 05	I-25	E10390	.008	23.0°C	20 46	20 58
	"	"	"	"	"	"	23.0°C	20 58	21 04
24738	HD 122080nf	13 54.5	+26 18	I-25	-	"	"	21 18	22 02
24739	HD 122080SP	—	—	—	—	—	—	21 05	22 05
24740	HD 148832	16 25.7	+15 19	I-25	"	"	—	00 15	01 35
24741	HD 157702	17 19.7	+18 56	"	"	"	22.9°C	01 45	02 59
	Focus 7 alt.	09B							

Home Temp. 69°F
 Focus. 15.53
 Home Temp. $+66^{\circ}\text{F}$

Transparency Conditions

good

23:30 light cloud

79

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
00 51	N 54 ^m	+27 43	2	5.7	G0 III	6-6	Set 2 MK Std. } ^{see} 23:30 87.	Strong
01 01	100W	+27 43	2	"	"	6-6	Set 8 "	good
02 02	105W	+25 57	2	7.0 7.15	A5	4-4	Set 2 KA 8°x8°	} good short weak unclear weak weak
00 05	53W	+25 57	2-3	8.0		4-5-3	Set 8 KA 8°x8° Short slit.	
01 35	52W	+15 11	1-2?	7.51	A3	4-4-4	Set 2 KA 8°x8° P.H.1 - spotted with white & violet light.	
02 59	23W	+18 51	0-1	7.48	A0	4-4-4	" 8 "	
						15/10	" 5	
3 P.H. + in Trig.								
H-on-M.								
Tried adjusting mirror in Ex-Mtr.								
Think I might do better using								
diff. + 1.								
MC SC MTW & STW SW ME S +10 -1^m9.8 STOPPED -15.3 +15 STP0.								

June 8

75

Date Mon. June 8-9/59 Observer MR ka-HV Julian Day 161

[illegible]

Time Temp. 80° F

Locus.....

Time Temp.....

Transparency Conditions

fair - hazy

76

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
				4.86	G0 ⁵	30"	4A/sec 2"/min ; a) cable broke b) Brown stopped. Fixed both	
				-	-	slit	4500A - 3800 . 1A/sec 2"/min & reverse	
				-	-	slit	set on 4248 & scan with S slow motion; repeat at 4147	cl
				-	-	"	" " " ; repeat on 4147. Stopped o/c film	
							3 P.H in Tring.	
							H - M.	
							Cloud after Midnight.	
							In hand with Ex. M to. for awhile.	

see
second

77

Date Tues June 9-10/59 Observer Kew McC Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.
24742.	Jupiter	#		I-25	E10340	008		about	2 min
24743	α Cr B	¹⁹⁶⁰ 15 33.0	26 51	"	"	"		22.07	22 12
								23 05	23 08½
								23 10	23 12½
								23 13½	
THURS. JUNE 11, 1959									
24743 T ₁	FE COMP. SPECT.			I-25	IIA0	.008	26.6		
	FE COMP. SPECT.			I-25	IIA0	.008			
	FE COMP. SPECT.			I-25	IIA0	.008			
24743 T ₂	FE COMP. SPECT.			"	E10340	.008			
	FE COMP. SPECT.			"	"	.008			
	FE COMP. SPECT.			"	"	.008			
24743 T ₃	"			"	"	"			
	"			"	"	"			
	"			"	"	"			

Time Temp.....

Ecus.....15.65.....

Time Temp.....

Transparency Conditions

Transparency Conditions
Extremely poor. haze + clouds. 19°C practising
78

78

[illegible]

Date Fri-Sat June 12/13 1959 Observer -Dg Julian Day 19590612.5

[illegible]

Time Temp.....61°F.

(Cloudy and stormy at beginning of night)

80

[illegible]

81

Date Sat-Sun 13/14 Jun 1959 Observer ^{HD}McC - Njai Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.
24746	Jupiter			I-25	E103a0	1008	16.0	22 31 1/2	22 41 1/2
	"			"	"	"		22 42 08	22 48 08
	"			"	"	"		22 53 27	22 54 15
24747	"			"	"	"		22 57 07	22 58 00
	"			"	"	"		22 59 38	23 02 03
24748	67 OPH	17 55.6	+2.56	"	"	"	+16.2	23 08	23 54
								23 56	00 01 1/2
								00 01 50	00 03 40
24749	HD 167 838	18 11.9	-15 28	"	"	"	+16.2	00 24	02 02
24750	{ θ Lyr. }	19 12.9	+37 57	"	"	"	+16.2	02 14	02 30
	{ θ Lyr. }	19 12.9	+37 57	"	"	"	+16.2	02 31	02 42
24751	{ HD 190603	20 00.7	+31 56	"	"	"	16.0	02 56	03 42
	{ Focus Test	OTB							

θ Lyr. is KO II
 Obviously incorrect statement!
 Spec. - that I saw also star like tube
 MR 1960 Sep 7

One Temp. 55°
 us. 15.43
 One Temp. 45°F

Transparency Conditions

2nd HALF - CLEAR
 POOR SEEING.

1st MC, 150 visitors. Showed 4 with 74" 82
 Mai between clouds; Everybody saw.
 4 x 4 miles

Ending Time E.S.T.	Air Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
22:4		Full length of slit.					Set 2 center of disk Sens 4 Counts about 12	Too strong
22:8		Long slit				12	Set 6 " " 4 1641 13 42 12	strong
22:15		" "	"			12	Set 9 " " 4 1626 10 48 08	fine
22:		" "	"			12	Set 2 " " 4 1635 4 counts	fine
23:0		" "	"			12	Set 2 " " 4 1634 6 counts	1 strong
23:4		+2 54	0	3.92	B5	12	Set 1 MK STD. " 4 1640 12 counts	1 strong
00:0		"				-	Set 5 " " " 4 1652 3 counts	fine
00:30	46 E	"				-	Set 9 " " " 4 1655 2 counts +	fine
01:0	50 W -15 28	0	6.4	B5 Ia	4-4-4	12	Set 7 " " " 4 1659 1 count	fine
01:30	24 W +38 01	-0	4.46	B7 Ia	4-4-4	12	Set 1 " " " 5 1662 18 counts (almost 2)	out of focus
01:45	27 W +38 01	0.0	4.46	B7 Ia	12	12	Set 5 " " " 5 1664 6 counts	fine
02:00	29 W +32 05	0.0	5.7	B1.5 Ia	4-4-4	12	Set 2 " " " 6 1673 3 counts	fine
					15/10	12	Set 8 " " " 6 1680 6 counts	fine

~~Plate 24750 apparently taken thru the glass~~

2 P.H. + 4

OBVIOUSLY INCORRECT

Plate either cocked up or one made or holder not set. STATEMENT admitted

83

Date Sun June 14-15⁵⁹ Observer HD-L-HV Julian Day 15

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.
24752	<i>(copy from file)</i> Satellite H ₂	15.27.2	1959 -17 44	I-25	E-103A0	long slit Set long slit	17.0	21 32	22 34
	4 Lat-45 N	"	"	"	"	"		22 3 ³ 28 ¹⁵	22 3 ³ 29 ²
	4 N Trop. Band	"	"	"	"	"		22 42	22 43
	4 " " "	"	"	"	"	"		22 44 ³⁰	22 46 ⁰⁰
	4 " " "	"	"	"	"	"		22 47 ²⁵	22 48 ⁰⁰
24753	4 Equator	"	"	"	E-11A0	"		22 50 ²⁰	22 53 ⁵⁰
	4 N Trop Band	"	"	"	"	"		22 55 ⁴⁰	22 58 ⁵³
	4 " " "	"	"	"	"	"		23 00 ⁰⁰	23 02 ⁰⁰
	4 Lat 50 N	"	"	"	"	"		23 03 ⁴⁵	23 05 ⁴⁰
	4 Bootis	13 52.8	+18 36	"	"	"		23 19 ²⁴	23 23 ²⁵
	4 " " "	"	"	"	"	"		23 24 ¹⁰	23 32 ¹⁰
24754	HD 157258	17 17.1	32 47	"	E-103A0	"	16.4	23 45	00 35
24755	⊙ Lyr	19 12.9	37 57	"	"	"		00 46	00 54
	"	"	"	"	"	"		00 56	00 58
24756	K Aql	17 31.5	-07 15	"	"	"	16.8	01 18	01 32
	"	"	"	"	"	"		01 32 ³⁰	01 39 ³⁰

17 40

89.

Time Temp. 58°F

Transparency Conditions

us. 15.46

Time Temp.

Ending Time E.S.T.	Air Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
22 34	20m	-17 47					Set 1	Sens 4 Eg. Pth 1693-1702
22 39							Set 3	6 counts
22 43							Set 5	6 counts
22 46							Set 7	9 counts
22 48						12 ⁵	Set 10	9 counts
22 53							Set 0	18 counts
22 58							Set 2	18 counts
23 06							Set 4	12 counts
23 07	52 W					12 ⁵	Set 7	12 counts
23 08						Go IV 2.69	Set 9	8 counts
23 09						"	Set 11	12 counts
23 30							Set 5	Sens 7 814-
00 30	27 W	32 42	1	6.83	Ao	4-4-4	" 2 Mk sed	3 counts
00 31	27 E			4.46	Ko II	6-6	" 8	1 1/2 "
00 32						12	" 5	6 1/2 "
00 33	50 E	-07 08	0	5.04	B0.5 III	4-4-4	" 8	3 "
00 34						12	"	

This plate in
cardboard
box. To
be developed
3 min in D19
at 70°F.

fine

fine

fine

fine

good

fine

Date June 14/15/59 Contd. Observer - H v Julian Day 155

[illegible]

Transparency Conditions

86

Dome Temp.....

ocus.....

Dome Temp.....

ending Time
E.S.T.

our Angle
End

Declination

Seeing

Ptg.
Mag.

Sp.

Comp.

REMARKS

Quality

0328

20 30 W

3836

00

6.9

B05
Ib

4-4-4

15/10

Set 2

11 8

MK Std. Sens #7

10 counts

good
OK.

1 P.H. in firing,

June
15

MC
+8

SC
-17.2

MTW
STOPPED

STW

SW
STPD.

ME
-8.

87

Date Thurs June 16-17/59 Observer Mai Id - L.O. Julian Day 170

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.
24758	49 LIB	15 54.7	-16 14	I-25	E103a0	0.008	16.8°C	21 02 ³⁰	21 22
24759	Moon				E11 a0			21 27	21 28 ¹ / ₂
	"							21 29 ³⁷	21 30 ⁷⁰
	JUPITER							21 36 ⁴	21 37 ²⁵
	"							21 41 ⁰⁵	21 42 ⁰⁵
	4 N. TRAP. CANO							21 44 ²⁰	21 47 ⁴⁰
	"							21 49 ²²	21 51 ²⁰
Photometry session 2, using counter - short slit. Time for 5 counts									
Lat (est)	N LAT 80	02	21.16						
	N " 60 (hand)	01 ^m	33.70						
	N " 30	01 ^m	26.95						
	N " 10	01 ^m	42.01						
	EQUATOR	01	33.485						
	S LAT 10	01	34.02						
	S LAT 30	01	28.36						
	S LAT 60	02	05.01						
	S LAT 80	02	05.01						

ome Temp.....

ocus..... 15 46

ome Temp.....

Transparency Conditions

88

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
21:32	16 E	-16 25	1	6.00	F8V	4-4-4	Set 2 Se-HV Sens 6 1867.1872	
21:35							Set 0 } alt of moon 33° 40' Sens 4 1904 18 counts 1	
21:39							Set 1 1/2 } " 1923 12 counts 2	
21:41							Set 4 } " 1936 18 counts 3	
21:42							" 5 1/2 } mean alt of " 1959 12 counts 4	
21:43							" 7 } Jup. 28° 17' " 1968 18 " 5	
21:44							" 8 1/2 } " 1987 12 " 6	
21:45							12 sec " 11 }	

Tried for HD 160821 but couldn't find in guiding eyepiece.
Tried a very bright star in vicinity, only a large beam.
Thick clouded over; not collimated. Made adjustments. Still
didn't look quite right. By now, sky cloudy. Closed up 01:00.
M. H. H.

P.S. - Spotter faulty. Won't stop
24759 probably overexposed

1 Plt in frag.

ome Temp.....

Transparency Conditions.....

ocus.....

ome Temp.....

ding Time
E.S.T.

our Angle
End

Declination

Seeing

Ptg.
Mag.

Sp.

Comp.

REMARKS

Quality

thing

This is the other half of the plate
used for 24759. They were developed together.

June	<u>MC</u>	<u>SC</u>	<u>MTW</u>	<u>STW</u>	<u>SW</u>	<u>ME</u>
19	+8	-17.7	STOPPED		STP.	-4

extra-focal image of a bright star made at the
position of the collimator with the spectrograph
optics removed.

L says the pattern of this plate is not unlike the
pattern of the remaining bromine coat under
the aluminium.

Ad.

Date Fri June 19-20

Observer

..Julian Day

[illegible]

Home Temp. 63°F

ocus.....

Home Temp.....

92
Transparency Conditions

Sat. June 20 — MR, La
150 visitors, Dg
showed & C. in through KM
thick haze & closed up

ending Time E.S.T.	our Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality												
							Jupiter + Tried setting on a number of stars. Clouds repeatedly													
							Though the sky was so cloudy, tests with the exposure meter <u>seem</u> to indicate that the new coat on the secondary has improved efficiency by about 1 mag. - not certain.													
							June 23 <table><tr><td>MC</td><td>SC</td><td>MTW</td><td>STW</td><td>SW</td><td>ME</td></tr><tr><td>+8</td><td>-18.8</td><td>-4</td><td>-2.5</td><td>-3.2</td><td>0.0</td></tr></table>	MC	SC	MTW	STW	SW	ME	+8	-18.8	-4	-2.5	-3.2	0.0	
MC	SC	MTW	STW	SW	ME															
+8	-18.8	-4	-2.5	-3.2	0.0															

93

Date 1959 June 22/23 Mo-Ju Observer MR-La/HV Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.
842-92	Jupiter	15 ^h 24 ^m 4 ^s	-17° 37'	various	DS	84.	see rec'd	21:15~	22:38
843-93	Arct	15^h 44^m 7^s	07° 26'	4260	4540	20		23:10	
843-92	Her	17 38.3	+46 02	4260	4540	set 20	4-7	23:25	
844-92	67 Oph	17 58.6	+02 56	"	"	"	5-3	23:50	
845-92	{ 8 Oph	17 45.9	+02 43	4260	4540	"	4-7	24:05	
	{ "	"	"	"	"	"	5-3	24:20	
24760	{ HD 172068 np	18 33.0	41 12	I-25	E103a-0.008	+18.0°	01 32	03 22	
	{ Home 9 at 0713					+16°*			
						* thought to switch on fast			

Home Temp.
 Focus. 15.46
 Home Temp.

Transparency Conditions ~~excellent~~ good

Found Guiding Eyepiece Mangled. Fixed it. I think !!!?

Seeing Poor

Telescope Unsteady "windy"

94

Ending Time LST.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
22.38			3.74 3.7	3.7	A2		confirming 24 & satellite in 5x's	
			3.74	3.7	A2			
		+46° 01'	6"	3.68	B3V	30"	HA/sec 2"/min List A	
		+02° 56'	"	4.00	B5Ib	"	"	
		02° 42'	"	3.76	A0V	"	" hit D	
		"	"	"	"	"	"	
03.22	33W	41 15	00	7.6	A3	4-4-4 15/10	Set. 2 KA 8° x 8° # 8 " 8	2149 32 com to 2181 should have been 4
								FINE

1 P.H. in Frig.

June 24 MC +9 SC -17.9 MTW +2 STW -2.2 SW 6.7 ME -5

Date Fri Jun 26-27 1959

Observer.....^{Hd}
^L
^{OH}

Dg.

Julian Day.

[illegible]

Ime Temp.....70° F.....

Poor

95

Maze and clouds at sunset
then clearing

N.B. One of the rubber bands on secondary cap broke off -
Sat Jun 27-28 vB - Mac - McC demonstrated the telescope
to about 150 visitors. Fog. vB lectured with slides on the
solar system.
Turned heat on mirror - McC

97

Date June 29. 29 ¹⁹⁵⁹ Jun. Observer h. - Mai Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.
24767	HD 145001	^{17 16} 16 06.0 ^{17 19} 16 03.6	17 10 17 19	I-25	E103a-0	008	30°	22:00	22:15
	This turned out to be part of a double star the plate is of the brighter, most southern star.								
24768	HD 144579	^{16 03.4} 16 01.5 ^{39 16} 39 24	39 16 39 24	I-25	E103a-0	008	30°	22:25	23:00
24769	HD 156110	^{12.1} 17 10.6 ³⁶ 45 30	45 30	I-25	E103a-0	008	30°	23:15	24:00
24770	HD 175863	18 52.3	59 53	I-25	E103a-0	008			

Eme Temp. 80°
 Fcus. 15.74-109
 Eme Temp.

Transparency Conditions

Poor - good after 22:00 98

00:15 Broken cloud. Lightning
 01:35 Hopeless.

Ending Time E.S.T.	Har Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
2:15	018W	17 08		6.1	G4	4-4-4	^{1st counts} counts 1321-2335. Level - 7 574. Vel. Stars. fine	
							The first two stars were taken from Obs. Book marked KAFS - List "Std Vel. Stars"	
3:00	0105W	39 15	0	7.2	G8	4-4-4	^{40 counts} 2340-2380 Level - 8 574. Vel. Stars. weak	
	5.2W	45 24	1	7.3	G8	4-4	^{40 counts} 2394-2454 Level - 9 574. Vel. Stars. good.	
							1 P.H. - frig. Note: The exp. meter was not properly balanced.	

99

Tues - Wed

Date 30 June / 1st July Observer S; L; S; R Julian Day 1955

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	
24770	^{NGC} 6254	16 ^h 54.8	-04°03	Newt	103A0			22 ^h 26 ^m 25 ^s	22 ^h 30 ^m 25 ^s	2
24771	^{NGC} 5897	15 ^h 14.9	-20°50	"	"			22 ^h 33 ^m 40 ^s	22 ^h 43 ^m 40 ^s	3V
24772	^{NGC} 6356	17 ^h 21.0	-17°46	"	"			22 ^h 49 ^m 50 ^s	22 ^h 51 ^m 50 ^s	SE
24773	^{NGC} 6402	17 ^h 35.3	-03°13	"	"			23 ^h 03 ^m 45 ^s	23 ^h 15 ^m 45 ^s	SE
24774	^{NGC} 6356	17 ^h 21.0	-17°46	"	"			23 ^h 25 ^m 50 ^s	23 ^h 30 ^m 50 ^s	SE
24775	^{NGC} 6093	16 ^h 14.4	-22°53	"	"			23 ^h 39 ^m 25 ^s	23 ^h 47 ^m 25 ^s	SE
24776	^{NGC} 6356	17^h21.0	-17°46					23^h50^m25^s	23^h55^m25^s	
24776	^{NGC} 6838	19 ^h 51.5	+18°39	"	"			23 ^h 54 ^m 25 ^s	23 ^h 58 ^m 25 ^s	SE
24777	^{NGC} 6712	18 ^h 50.6	-08°47	"	"			00 ^h 03 ^m 30 ^s	00 ^h 13 ^m 30 ^s	SE
24778	^{NGC} 6356	17 ^h 21.0	-17°46	"	"			00 ^h 18 ^m 30 ^s	00 ^h 26 ^m 30 ^s	SE
24779	^{NGC} 6402	17 ^h 35.3	-03°13	"	"			00 ^h 29 ^m 30 ^s	00 ^h 35 ^m 30 ^s	SE
24780	^{NGC} 6356	17 ^h 21.0	-17°46	"	"			00 ^h 49 ^m 45 ^s	00 ^h 51 ^m 45 ^s	SE
24781	6838	19 ^h 51.5	+18°39	"	"			01 ^h 17 ^m 50 ^s	01 ^h 22 ^m 50 ^s	SE
24782	6356	17^h21.0	-17°46	"	"			01^h27^m50^s	01^h32^m50^s	

Dne Temp.....

Fous.....

Dne Temp.....

Transparency Conditions.....

100

Correction to dec

Ending Time E.S.T.	Hor Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
22.3	09 E						Focus on 300ph	
22.4	45 W						light clouds	
22.5	5 E						after exposure	
23.0	24 E	-3 15					Focus on 270ph	
23.1	20 W	-17 47						
23.2	W	-22 55						
23.3	W							
23.4	W							
23.5	W							
24.0	W							
24.1	W	-8 47					through the clouds	
24.2	W	-17 47						
24.3	W	-3 15						
24.4	W	-17 48						
24.5	E	-18 37						

Clouds all night 175 ft

July 2

Wed. 4 hours July 1-2

MC SC MTW STW SW SC MH
+8 -14.4 STOPPED STP STP -8

101

Thurs - Fri
Date July 2-3 1959

Observer S. L. Mc C.

Julian Day

Plate No.	Object	R.A. 1900 1955	Declination 1900 1955	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	F. Temp.
24782	NGC 5904	15 16.2	+02 15	Naut	103a-0			21 28 37	21 31 37	
24783	NGC 5634	14 27.3	-05 46	"	"			21 34 36	21 42 36	
24784	NGC 5897	15 14.9	-20 50	"	"			21 52 36	22 02 36	
24785	NGC 6402	17 35.3	-03 13	"	"			22 08 10	22 22 10	
24786	NGC 6254	16 54.8	-04 03	"	"			22 30 39	22 34 39	
24787	NGC 6266	16 58.4	-02 04					22 38 25	22 41 25	
24787	NGC 6366	17 25.4	-05 02					22 38 25	22 41 25	
24788	NGC 6356	17 21.0	-17 46					22 50 47	23 00 47	
24789	NGC 6535	18 01.6	-00 18					23 04 30	23 14 30	
24790	IC 1276	18 08.0	-07 14					23 22 36	23 32 36	
24791	NGC 6356	17 21.0	-17 46					23 56 55	24 04 55	
24792	NGC 6093	16 14.4	-22 53					00 08 12	00 14 12	
24793	NGC 6402	17 35.3	-03 13					00 22 53	00 28 53	
24794	IC 1276	18 08.0	-07 14					00 40 07	00 51 07	
24795	NGC 6540	18 04.1	-25 01					01 14 54	01 23 54	
			COVER							

Dne Temp.....

Focus.....

Dne Temp.....

Transparency Conditions *Perfect*

102

*Side of plate holder covered with
tape to prevent light striking*

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
21.2	29W						<i>focussed on α Serpentis</i>	
21.2	45W							
21.2	12W							
21.2	50E						foc on	
21.2	44W						<i>foc on 30 Ophiuchi</i>	
	15E							
	33W							
	21E							
	21W							
	21W							
	21W							
	24W						<i>foc on 27 H Ophiuchi</i>	
	25W							
	25W							

~~and in the morning~~

...Temp
...
...Temp

Angle
Incl

Time Temp.....

Transparency Conditions

104

Ending Time E.S.T.	Far Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
01	44W							
21	44W							
31	49W							
51	33W							
61	13W							
71	43W						RA more prominent for slow seeing,	
81	13W							
91	23W						Twenty seconds A superb night for transparency and lack of clouds HS it	
							July 3	
							$\frac{N.C.}{+8}$ $\frac{S.C.}{-12.4}$ $\frac{M+U}{STPD.}$ $\frac{STW}{STPD.}$ $\frac{SW}{STPD.}$ $\frac{SC}{STPD.}$ $\frac{ME}{-10}$	

105

(Friday / Saturday)

OH watched + helped

Date 3-4 July 1959 Observer S. H. Sr Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.
		1955							
24803	NGC 5904	15 16.2	+02 15	Newt	103aD			21 ^h 22 ^m 10 ^s	21 ^h 24 ^m 10 ^s
24804	NGC 6218	16 44.9	-01 53	"	"			21 ^h 28 ^m 25 ^s	21 30 25
24805	NGC 6254	16 54.8	-04 03	"	"			21 ^h 33 ^m 55 ^s	21 35 55
24806	NGC 5634	14 27.3	-05 46	"	"			21 ^h 39 50	21 ^h 53 50
24807	NGC 5897	15 14.9	-20 50	"	"			22 ^h 00 00	22 ^h 10 00
24808	NGC 6402	17 35.3	-03 13	"	"			22 ^h 18 40	22 ^h 32 40
24809	NGC 6356	17 21.0	-17 46	"	"			23 ^h 53 00	00 ^h 01 00
24810	IC 1276	18 08.0	-07 14	"	"			00 ^h 10 ^m 40 ^s	00 ^h 12 ^m 30 ^s
24811	IC 1276	18 08.0	-07 14	"	"			00 ^h 16 10	00 ^h 46 10
24812	NGC 6356	17 21.0	-17 46	"	"			00 ^h 50 40	01 ^h 22 40
24813	NGC 6402	17 35.3	-03 13	"	"			01 ^h 02 25	01 ^h 16 25
24814	NGC 6544	18 04.6	-25 01	"	"			01 ^h 28 40	01 ^h 42 40
24815	NGC 6626	18 21.8	-24 54	"	"			01 ^h 47 50	01 ^h 53 50
24816	NGC 6656	18 33.6	-23 58	"	"			02 ^h 00 45	02 ^h 04 45
24817	NGC 6717	18 52.4	-22 47	"	"			02 ^h 09 55	02 ^h 23 55
24818	NGC 6712	18 50.6	-08 47	"	"			02 ^h 30 00	02 ^h 38 00

Transparency Conditions

Good but haze in SW 106

ome Temp.....

ocus.....

ome Temp.....

Ending Time EST.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
12:00	25 E	102 12					Focussed on 2 Ser	
1:05	46 E							
1:55	51 E							
2:05	05 W							
2:10	23 W							
2:25	35 E						Focussed on 27 H Cep	
2:35	07 W						dec. would not stop moving — emergency stop *	
2:50	32 W	(plate 24810 is numbered, 24809 a)					Focussed on 60 Ser	
2:55	06 W						Frustrating to have dec motor give out at peak sidereal time	
3:00	05 W							
3:15	02 W						* Pulled the tube South with a rope and moved it North with the motor.	
3:25	05 W							
3:35	59 W							
3:45	58 W							
3:55	00 W							
4:05	14 W							

DH watched

[illegible]

Transparency Conditions

Dome Temp.....

108

[illegible]

109

N
L
La - La

Date July 4-5 1959 Observer La - La Julian Day 171

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	11
24822	H.D. 170714	18 ^h 25.8 ^m	-05° 51'	I-25	E 103a	012	21.5°C	22 ^h 44 ^m	00 ^h 55 ^m	
54823	5 Cyg	19 ^h 41.8 ^m	44° 53'	"	"	008	26.0°C	1 min		
"	"	"	"	"	"	"	"	1 min, 30 sec	01 ^h 18 ^m	
24824	5 Cyg	20 ^h 18.6 ^m	29° 56'	"	"	"	"	2 ^m 30 ^s	01 ^h 36.5	
"	"	"	"	"	"	"	"	45 sec		
"	"	"	"	"	"	"	"	2 min		
24825	H.D. 190603	20 ^h 00.7 ^m	31° 56'	"	"	"	"	01 ^h 47 ^m	02 ^h 10 ^m	
24826	H.D. 207673	21 ^h 45.6 ^m	40° 10'	"	"	"	26.0°C	02 ^h 20 ^m	03 ^h 50 ^m	

Dome Temp.....

About 170 visitors. Show

110
 N₁-La, L

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
6 ⁵⁵	0 48 ^m W	-05° 39'	0	7.3	B5 _m	4-3-	2469-2476 sens 7 - Radcliffe OB Stars. Pier!!	4 weak
		45° 02'	0	2.97	B9.5II		1 count sens 4 MK stars - (Charles Henry	7
		"	"	"	"		2 counts } exposure taken	7 once -
6 ⁵⁸	0 08 E	"	"	"	"	12 sec	3 counts between clouds	7 capped
01 35		40° 07'	0	2.32	F8 Ib		1 count sens 4 "MK star"	7 one
							2 counts	8 good
						12 sec	3 counts	7 fine
2 10		32° 07'	0	5.7	B1.5 Ia	4-4-4	41 1/2 counts sens 6 "MK star" cloud!!	7 one
2 50		40° 58'	0	6.5	A2 Ib	4-4-	2503-2514 sens 7 "MK star" clouds = "	(8 weak)
		Locus Test	15/10				det 7.5 "neglect set 9"	7 on top of
								then sp.
		MC +7	SC -9.3	MTW -3	STW +6.5	SW +2.4	ME 0.0	
							4 P.H. in Frig	
							The clamp that secures the plate folder in place is binding and impossible to turn without a great deal of effort	

111

(Monday / Tuesday)

Date 6-7th July 1959 Observer La & Sr Julian Day

Plate No.	Object	R.A. 1900 1960	Declination 1900 1960	Inst.	Emulsion	Slit	Temp. Sens.	Starting Time E.S.T.	Ending Time E.S.T.
846-93	L Ser	15 39.8	+20 09	H8	x2	.020	6/7	22 40	
847-93	L Her	16 18.6	+46 24	"	x4	"	5/3	22	
848-93	α Cep	17 33.1	+12 36	"	x4	"	4/4	22 ^h 39	23 ^h 05
849-93	δ Cep	17 45.8	+02 43	"	x2	"	5/2	23 ^h 08	23 ^h 21
850-93	β Cep	17 58.6	+02 56	"	x4	"	5/3	23 ^h 25	23 ^h 39
851-93	39 Dra	18 23.4	+58 47	"	x3	"	5/5	23 ^h 47	00 ^h 04
852-93	α Lyr	18 35.6	+38 44	"	x3	"	3/4	00 ^h 10	00 ^h 32
853-93	δ Lyr	18 57.4	+32 38	"	x2	"	4/6	00 ^h 36	00 ^h 46
854-93	L Aql	19 34.6	-01 23	"	x2	"	5/4	00 ^h 50	00 ^h 57
855-93	κ Aql	19 34.7	-07 07	"	x2	"	5/5	01 ^h 03	01 ^h 11
856-93	δ Cyg	19 43.7	+45 02	"	x2	"	4/5	01 ^h 20	01 ^h 27
857-93	no 190 603	20 03.1	+32 06	"	x2	"	6/5	01 ^h 34	01 ^h 42
858-93	α Del	20 37.8	+15 47	"	x2	"	5/3	01 ^h 47	02 ^h 01
859-93	α Cyg	20 40.0	+44 68	"	x2	"	4/3	02 ^h 06	02 15
860-93	λ Cyg	20 45.8	+36 20	"	x2	"	5/4	02 ^h 20	02 26

Dome Temp. 67°F (start of night)

Transparency Conditions

good

112

Focus

Dome Temp. 60°F

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Signif- Comp. hole	REMARKS	Quality
		+20 13	6"	3.73		30"	see finder field 4260-4540 Reverse 1A/sec = 2"/min: east D	
23 ^h 05			"	2.14		"	"	
23 ^h 21		+02 43	"	3.76		"	"	
23 ^h 39		+02 55	"	4.00		"		
00 ^h 04		+58 44	"	4.85		"		
00 ^h 32		+38 43	10"	0.04		"		
00 ^h 46		+32 35	6"	3.30		"		
00 ^h 57			"	4.28		"		
01 ^h 11		-07 08	"	5.04		"		
01 ^h 27		+45 02	"	2.97		"		
01 ^h 42			4"	3.69		"		
02 ^h 01			5"	3.86		"		
02 ^h 3		+45 08	5"	1.33		"		
02 ^h 25				4.47		"		

(Monday / Tuesday)

Date 6-7th July 1959 Observer La & Sr Julian Day 174.5

[illegible]

Dome Temp.....

Transparency Conditions.....

Focus.....

Dome Temp.....

still good 114

ding Time
E.S.T.

P.

Hour Angle
End

Declination

Seeing

Ptg.
Mag.

Sp.

Comp.
of hole

REMARKS

Quality

2 42

2 56

3 17

6"

5.76 B81a

30"

"

4.28 B9Ia

"

+61 53

"

5.76 B2Ia

"

Sky getting bright

Tues/Wed
Date 7-8 July 1959

Tues/Wed

Date 7-8 July 1959

Observer.....McC-Lo.....

Julian Day

[illegible]

Dome Temp. 72

Focus.....15.57

Dome Temp.....

Transparency Conditions..... Haze + broken cloud

Getting worse - closed 2200

Cleared - opened 2300

768

[illegible]

Date Wed July 8-9/59 Observer L-Hr Julian Day 174.5

[illegible]

Home Temp.....

Transparency Conditions

778

Start delayed by minor troubles

Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
2 47	3 35 W	58 27	0	6.80	A3	4-4-4	Set 5 KA 8x8 clouds. EX MTR 2637-2649	good
3 41	024 E	59 56	1	6.9	B4E	4-4-4	" " Be ring. 2650	fine
2 59	3 12 W	41 13	0-1	7.5	A3	4-4-4	" 2 KA 8x8 2665-2695 #8	good
3 28	028 W	40 57	1-2	6.5	A2 Ib	4-4-4	" 2 MK. STDS 2697-2708 #7	good
						15/10	" 8	OK
							2 P.H. in fig.	

Home Temp. 74°F *begin*
 Focus 15.60
 Home Temp. 63°F *end*

Transparency Conditions *Fair CLOUD IN SE.*

120

MARVELLOUS SEEING, EXCELLENT CONDITIONS
 AROUND 22:00
 AT TIMES STAR IMAGE ALMOST DISAPPEARED
 IN SLIT

Observing Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
1	30E	-02 13	1-2-3	8.2	B0	4-5-4	Set 2 RADCLIFFE OB Sens 8- 2713-2747	good
2	35E	+04 37	2-3	7.42	G2V	4-4-4	Set 2 Se-HV 2745-2775	good
3		-01 44	2	7.7	B4	4-4-4	Set 2 RADCLIFFE OB Sens 8 2776-2806	good
4	1 30V	+18 12	2-7	6.9	B9.5ex	4-4-4	Set 2 Be <i>double out of focus</i> 2806 2830	too weak
5	34W	+67 57	0-1	7.2	B5e	4-4-4	Set 5 Be sens 7 2830-2842	too weak
6	39W	+65 07	0-2	5.8	B3ne	4-4-4	Set 2 Be sens 6 2842-2847	too weak
7	15E	+48 26	0	5.2	B3ne	4-4	Set 5 Be sens 6 2847-2852	too weak
						15/10	Set 9	

1 plate folder in fring
 July 10 $\frac{MC}{+7}$ $\frac{EC}{-4.0}$ $\frac{MTN}{-12.7}$ $\frac{STW}{+7}$ $\frac{SW}{+0.1}$ $\frac{ME}{-1}$

Sat July 11.

210 visitors. Hd, MCC, LO arrived & then
 with 50" stars thickening clouds.
 Thunderstorm later.

Date Sun July 12-13⁵⁹ Observer L-H Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	Exposure Time
24842	HD 157297	17 17.3	11 47	I-25	E 103A	set 008	24.5	21 36	22 40	23W
24843	" 180398	19 11.3	12 56	"	"	"	24.5	22 46	01 44	23W
24844	" 20560	21 27.7	42 16	"	"	"	24.2	01 51	02 57	23W
24845	" 217543	22 56.3	38 10	"	"	"	"	03 05	03 37	23E
	Flare 9st		09B							

723

(Monday/Tuesday)

Date 13/14th July 1959 Observer Lo-Sr Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.
24846	I Her	16 16.7	+46 33	I-25	E-103A ₀	008	23.8 ⁰	21 ^R 17	21 ^R 21
		"	"	"	"	"	"	21 ^R 23	21 ^R 25
24847	2 Her	16 17.5	+19 23	"	"	"	24.0	21 ^R 36	21 ^R 41
		"	"	"	"	"	"	21 ^R 42	21 ^R 47
24848	HD 165601	18 00.7	+04 39	"	"	"	23.8 ⁰	22 ^R 42	00 ^R 16
24849	HD 187923	19 47.4	+11 23	"	"	"	"	00 ^R 24	00 ^R 56
	Focus Test.								
864-94	15 Vul	1960 20 00	1960 +27 38	HX	X 4	0.020	5/6	01 ^R 22	
865-94	1 Cyg	20 45.8	+36 20	"	X 2		5/4	01 ^R 45	
866-94	σ Cyg	21 15.9	+39 14	"	X 2		5/5	02 ^R 09	
867-94	v Cep	21 44.3	+60 57	"	X 2		5/6	02 ^R 23	
868-94	19 Cen	22 03.9	+62 05	"	X 2		5/7	02 ^R 38	
869-94	4 Ser	22 22.8	+49 14	"	X 2		5/8	02 ^R	
870-94	3 Peg	22 39.5	+10 33	"	X 2		5/4	03 ^R 04	
871-94	π Aql	22 23.3	+01 10	"	X 2		5/6	03 ^R 29	

Home Temp. 70°F
 Focus 15.55
 Home Temp.

Transparency Conditions Cloud till 22:50
 good after 01:00

729

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
2:21	0° 10' W	+46 23	0	3.73	B5 IV	4-8	Set 2 MK-stds. dem 4 2906-2909	✓
2:25	0° 16' W	"	0	"	"	4-8	" 5 " 4 2909-2911	"
2:26	0° 21' W	19 13	0	4.00	A2 I	4-4-4	" 2 " 4 2911-2914	fine
2:32	0° 36' W	"	0	"	"	4-8	" 5 " 4 2914-2916	"
2:36	21 W	+04 37	0-1	7.42	q2 V	4-4-4	" 5 Se HV 7 2916-2932	weak
			1	6.31	q2 V	4-4-4	" 5 " 7 2932-2948	good
						15/10	" 9	
			6"	4.74	A5	38"	4260-4540 MR List D	
			"	4.47	B5 V	"	" "	
			"	4.28	B9 Int	"	" "	
			"	4.66	A2 Ia	"	" "	
			"	5.17	B9.5 I	"	" "	
			"	4.44	B2 Ia	"	" "	
			"	3.61	B V	"	" "	
			"	4.6	B Int	"	" "	
							" B8	
							1 P.H. in ring	

Ex MTR
 measured with
 to left of center

125

Date Tues July 14-15/59 Observer HD(L) - H Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P
24850	Jupiter N Trop. dark belt.			I-25	E1000	long slit 008	+260	20 41.	20 50	?
24850	" " "							20 52	20 56	
	N of the N Trop band (bright)							20 57 $\frac{1}{4}$	21 07	
	" " " " "							21 31	21 36	
	" " " " "							21 37	21 40 $\frac{1}{2}$	
	On the dark N Trop band							21 42	21 48	
	" " " " "							21 50	21 55 $\frac{1}{4}$	
	" " " " "					(perhaps within band)		21 57	22 00 $\frac{1}{2}$	
	Moon							22 08	22 09	
	"							22 10	22 12	
	"							22 12 $\frac{1}{2}$	22 15 $\frac{1}{4}$	
24851	" (other half of same plate)							22 17 $\frac{1}{2}$	22 19 $\frac{1}{4}$	
	"							22 20	22 23 $\frac{3}{4}$	
24852	HD 173003	18 38.1	-01 44	I-25	E103a0	016	26.1	22 48	00 16	
24852	HD 192383*	20 09.5	25 18	"	"	.008	26.0	00 30	03 46	
	7 T		078							

* error in
programme

Dome Temp.....

Focus..... $15.67 - 0.09 = 15.58$

Dome Temp.....

Transparency Conditions.....

*2355 H.V. incorrectly set in Ex.Mtr. meaningless.

726

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
20 50		-17 26	1				Image not set 0 lens. 4 counts 56-65	
20 56							properly focused 1 " 65-70	
21 07							on slit " 2 On slit appears " 70-74 1/2	
21 36							Reversed & focused. " 3 " 76-85	fine
21 43							" 4 " 85-91	
21 48							" 5 " 91-101 1/2	
21 55							" 6 " 102-11	
22 01	49W						" 7 " 11-17	
22 09							" 8 " 17-22 1/2	
22 12							" 9 " 22 1/2-29	
22 15 1/2							" 10 " 29-37	
22 19 1/2							" 1 " 37-45	fine
22 23 1/4	49W	-12 44	1				" 3 " 45-55	
00 16	46W	-1 42	1	7.7	B4	222	set 2 Radcliffe lens 8 counts 55*	good
03 46	46W	35 30	1-2	8.0	15/10	4.4-4	" 5 MK " 8 2089-3123	good.
							" 9 3 PH in line	

727

TU 4 - 1186

WED. - THURS.

Date JULY 15-16, 1959

Observer *Mai-McC* Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.
24854	HD 157702	17 19.7	+18 56	I-25	E10300	0.008	28.00	21 57	22 49
24855	{ MWC 320 HD 206773 MWC 376 HD 217850 MWC 394 Focus Test	19 41.3	+05 44	"	"	"	"	23 02	02 02
24856		21 39.3	+57 17	"	"	"	27.8	02 19	03 01
24857		22 52.7	+48 09	"	"	"	27.8	03 19	03 29
			OTB						

Home Temp. 77°F
 Focus 15.61
 Home Temp.

Transparency Conditions

Slight haze

728

21:25 McC noticed finger-shaped aurora
 22:15 WISPY CLOUD

Ending Time EST.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
21:41	20 42W	+18 52	0-1	7.48	A0	4-4-4	SeD2 KA 8 ⁰ 8 ⁰ Sens 8 125-169	fine
21:52	21 34W	+05 52	0-2 said	8.5	B5ne	4-4-4	SeD2 Be Sens 9 170-290	excellent
22:00	20 36W	+57 31	0	7.0	Bone	4-4-4	Set 5 Be Sens 7 291-307	fine
22:02	20 11E	+48 26	0-1	5.2	B3ne	4-4-4	Set 5 Sens 5 311	fine
						15/10	Set 9	OK
							3PH + 8	
							July 16	
							MC SC MTW STW SW ME	
							+7 -1.6 -9 +11.5 +1 -4	

729

Sherr. / Fri

Date July 16-17

Observer La-Hr

Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P
24858	T Her	16 16.7	46 33	J-25	E10320	008		22 04		
24858	{ r Ryr	18 55.2	32 33	J-25	E10320	008	29.5°C	23 27	23 30	
	"	"	"	"	"	"		23 34	23 36	
24859	{ HD 178849	19 05.1	34 35	"	"	"	28.0°	00 18	03 08	
	Procyon 7 st.	0713.								

730

About 2 mag. EXTinction clouds first half

Dome Temp.....

[illegible]

137

Date..... Observer..... Julian Day.....

[illegible]

Dome Temp.....

Transparency Conditions

Focus.....

Dome Temp.....

July 17 L. Changed to 12 $\frac{1}{2}$
Camera25" Was from 15.63
Till 23.15 12 $\frac{1}{2}$ F 13.00
T 20.25ding Time
E.S.T.Hour Angle
End

Declination

Seeing

Ptg.
Mag.

Sp.

Comp.

REMARKS

Quality

Saturday July 18 - Cloudy night.
 Mai Sr Dg demonstrated Telescope
 showed film "The solar family" to
 about 100 visitors. - 2nd HALF CLOUDY. Mai

733

(Monday/Tuesday)

Date 20^R/21st July 1954

Observer La - Sr

Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P	Angle Incl.
24860	HD 156110	17 ^R 10.6	+45° 30	1-12	E103A0	008	24.8°C	22 ^R 03	22 ^R 30	2	W
24861	" 164353	17 ^R 55.6	+02° 56	"	"	"	"	22 ^R 42	22 ^R 44	2	W
"	"	"	"	"	"	"	"	22 ^R 45	22 ^R 52	"	W
"	"	"	"	"	"	"	"	22 ^R 53	22 ^R 54	"	W
24862	" 186841	19 ^R 41.7	+23° 50'	"	"	016	24.8°C	23 ^R 21	00 ^R 29	3	W
24863	BD +45° 3230	20 ^R 33.9	+45° 47	"	"	"	"	00 ^R 49	02 ^R 11	4	W
24864	HOE 239923	22 ^R 15.8	+58° 27	"	"	"	24.8°C	02 ^R 40	03 ^R 34	1	W
"	Focus Spot					"					

Dome Temp. 70° F

Focus

Dome Temp. 68° F

Transparency Conditions

Cloud after sun set

← not recorded

Moon was rather bright

134

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
2 ^h 30	53 W	45° 26'	0	7.3	^{MS} B ₃	2-4	MS = main sequence B - star: Smo 7 : 3373-377	just *
2 ^h 4	20 W	+ 20° 54	0	4.0	^{sq} B ₅	2-2-2	sq = supergiant: set 1 " : " : 379-381	just
2 ^h 52	29 W	"	0	"	"	2-2-2	: " 5 " " : 381-385	shiny
2 ^h 54	31 W	"	0	"	"	2-4	: " 9 " " : 385-386	weak *
3 ^h 29	21 W	+ 23° 57	1	9.0	B ₁ Ia	2-1	: " 5 O-B star 9 : 386-415	} too weak
3 ^h 11	11 W	+ 46° 00	1-2	10.15	B ₀ III	1-1-1	: " 5 " 10 : 416-476	
3 ^h 34	52 W	+ 58° 42	0	9.7	B ₀ IV	1-1-1	: " 5 " 10 : 476-	
					11/8		" 9 c. third	late partly foggy
							41 P.H. - 10	* quickly from

735

Tues - Wed
Date 21/22 July 1959

Observer McG - H/v

Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.
24865	HD 139992	15 36.2	+56 13	1-12 1/2	E1030-0	1.008	28.0	20 47	21 03	
24866	HD 164353	17 55.6	+02 56	"	"	"	28.7	21 30 00	21 30 20	
								21 33 00	21 34 00	
								21 35 30	21 44 00	
24867	HD 172044	18 32.9	+33 23	"	"	"	28.7	22 02 30	22 08 00	
								22 08 30	22 11 00	
								22 12 00	22 20 15	
24868	HD 283434	19 37.3	+28 55	"	"	"	29.0	22 53	01 59	
	Nov 9 est		07.13							

Home Temp. 81°

Focus. ← not recorded (1300)

Home Temp.

Transparency Conditions Haze + clouds got quite 136

bad at 2100, Can hardly see star to guide.

2130 Hazy - Try for higher decs. Heavy haze 2140

ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
103	02W	+56 00	0-1	7.2	Eq	2-4	KA 8x8 Set5 Sens8 3540 3540'	L weak
310		+02 56	2-3	4.0	B-	6	B-Std Set2 Sens5 2 counts	strong
700		"	"				5 1 count	L strong
440		1-2					8 4 counts	strong
180		+33 26	0	5.4	B9		B-Std Set2 Sens5 2 counts	strong
2100						6	5 1 count	L strong
	30 E						8 4 counts	v strong
059	157W	29 00	0-1-2	8.5	Bi.Ibp	2-2-2 8/6	OB Set5 Sens9 3576 - 3616 " 9 4 P.H. in fig.	L weak
							from c to red	
							020 Cloud & Haze, A very poor light,	
							L changed focus to 12.95	

137

Wed - Thurs

(MR)

Date July 22/23 1959 Observer La - Mai Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P
2486 ⁹	↑ Her	16 16.7	46 33	I-25 ^{12.5}	E103a0	008		21 12		-
	"	"	"	"	"	"		each count	mm	
2486 ⁷⁰	"	"	"	"	"	"			21 27	
2486 ⁹	α Aps	17 30.3	12 38	"	"	008		21 50		
	α Aps	"	"	"	"	"		each count	35 sec	
	"	"	"	"	"	"			22 10	
2487 ¹	H.D 183143	19 ^h 23.0 ^m	18° 05'	"	"	"	29.2	23:20	23:12	
	"	"	"	"	"	"	29.3	23:14	01 08	
2487 ²	α Cyg	20 38.0	+44 55	I-12 ¹ / ₂	"	"	29.4	01 25		
	"	"	"	"	"	"				
	"	"	"	"	"	"				
	"	"	"	"	"	"				
	"	"	"	"	"	"				
	"	"	"	"	"	"				
	"	"	"	"	"	"				
2487 ³	55 Cyg	20 45.5	+45 45	"	"	"		01 46	02 02	
	"	"	"	"	"	"		02 02	02 32	

ome Temp. 78°
 ocus. 12.952
 ome Temp. 72°

Transparency Conditions

Poor (EXTREMELY So.)

HAZY!!

138

00:45 HAZE REINFORCED BY CLOUD
 01:45 CLOUD EVERYWHERE (+ MIST)
 02:15 SOMEWHAT CLEARER
 02:40 CLOUDED OUT

Hour Angle E.S.T.	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
055 W	46 23	0-1	3.73	B5 IV	2-2-2	Set 2 MK Stds. sens. #5 1 count	good
					"	set 5 " 2 counts	good
					"	set 9 " 4 counts	strong
		0-1	2.14	A5 III	3-3	Set 2 MK Stds. plate marked 24569 25 count	good
		"	"	"		set 5 " 12 "	good
	41 2 34	"	"	"	2-2-2	set 9 " 3 "	strong
087 E +18	12	0	6.7	B7 Ia	2-2-2	Set 2 MK Stds. clouds band! 8 counts Sen 7-669-672	weak
124 W	"	"	"	"	"	set 5 " " 12 counts 677-689	good
037 W +45	08	0	1.33	A2 Ia	Set 2	1 sec " "	prec. and
					" 3	2 sec " "	strong
					6	" 6 2 sec " "	fine
					" 8	4 sec " "	fine
					" 9	6 sec " "	strong
					" 10	2 sec " "	strong
057 W +45	57	0-9	4.89	B3 Ia	2-2-2	Set 2 (one of few stars) sensible	strong
127 W		0-8	"	"	2-2-2	Set 5 4 counts 696-700 count very slow 700-708	strong

139

Wed - Thurs

Date July 22/23, 1959 Observer - Mori Julian Day

— 22 —

Julian Day

[illegible]

Transparency Conditions

796

ome Temp.....

Right Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
2342	143W	+4507	0-0	1.33	A2Ia		SDO 30 sec - MK std. 8/6 SD 9 3 P.H. + 4 Extremely poor night	Strong focus gone

Time Temp. 70°F
 Fcus. 12.95
 Time Temp. 61°F

Transparency Conditions -

00 00 CLOUD (INTERMITTENT)
(VARIETY)

142

Ending Time E.S.T.	Star Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
21 25	58E	-20 24	0	6.02	O9II	2-2-2	Set 3 MK Stars ^{Lens} 6 712-714	fine
22 3	10E					2-2-2	" 8 734-738	disturbed
00 3	35W		0	9.1	B2V:11-1-1	" 5	OB - Programme 9 739-769	fine
00 51		+45 57	0	4.7	B ₂	3	" 2 } B-Star Std Val. 1 comb	fine
01 00	005W	+45 57	0	4.7	B ₂	3	" 5 } taken through thick cloud, used wide slit. 1 comb	fine
						8/6	" 9 CLOUDED OUT. 4 P.H. + 0	fine

143

Date Saturday July 25-26 1959 Observer Lo - McC Julian Day McC

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	Angle End
24877	{ HD 178849	19 ^h 05.1	+34° 35'	I-12	E103A0	64 .008	+23.8°C	22.54	23 13	00
								23.50	00 34	21 W
24878	{ EV +44.2731	21 07.8	+45 05	I-12	"	.016	23.8°C	00 48	02 48	23 W
24879	{ 12 LAC	22 37.0	+39 42	"	"	.008	23.9	02 58	03 00	00
								03 04	03 07	22 W
								03 09	03 16 1/2	22 W
								03 17	03 19	22 W
24880	{ HD 3940	00 36.9	+63 45	"	"	"	24.0	03 34	04 04	2E
	{ Focus Test		OTB							

ome Temp.....

2300 light clouds

Transparency Conditions Clear

144

250 visitors shown M13 through 74-in.

by Dq, $m_c C$, L_0

[illegible]

Date Sunday July 26/57 1957 Observer McC-HV Julian Day 175

* error in programme

ome Temp. 65° F.

2380 improved considerably

146

6.5
11.2

1 P.H. + 7 in frig.

* exposure probably weak, strong tree noise; had to stop "down".

147

Mon/Tues

Date July 27/28 1957 Observer MR - La - Pyri Julian Day

Plate No.	Object	R.A. 1950	Declination 1950	Inst.	Emulsion	Slit	Temp. Dew.	Starting Time E.S.T.	Ending Time E.S.T.	P.
872-95	T Her	16 18.6	+46° 24'	H Y X 2		0.020	5/5	20:55		
873-95	2 Aql	17 38.1	+12 36	H Y X 2		"	5/1	21:23		
874-95	5 Dra	17 08.7	+65 46	"		"	5/3	21:39		
875-95	39 Dra	18 23.4	+58 47	H Y X 4		"	5/6	21:55		
876-95	2 Her	17 38.3	+46 02	H Y X 2		"	5/4	22:20		
877-95	2 Lyr	18 35.6	+38 44	"		"	3/6	22:35		
878-95	K Aql	19 34.7	-07 07	"		"	5/7	23:09		
879-95	2 Aql	19 34.6	-01 23	"		"	5/4	23:26		
880-95	Y Lyr.	18 57.4	+32 38	"		"	5/3	23:41		
881-95	5 Cyg.	19 43.7	+45 02	"		"	5/2	23:54		
882-95	1906 03	20 03.1	+32 06	"		"	6/3	00:08		
883-95	2 Del	20 37.8	+15 47	H Y X 4		"	5/3	00:40		
884-95	E Aql	20 45.5	-09 34	H Y X 2			too late!			
884-95	1 Cyg.	20 45.8	+36 20	H Y X 2			5/5	01:10		
885-95	199418	20 54.4	+47 16	H Y X 3			6/4	01:21		

Dome Temp. 74.5°F

Transparency Conditions very good

748

Focus.....

Dome Temp.....

ending Time
E.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	rise comp. rate	REMARKS	Quality
		8	3.73	B5 IV	smaller rate	M.R. Last D 1A/sec 2" frame	
+12 35		"	2.145	A5 III	"	" " " " " "	
+65 44		"	3.08	B6 III	"	" " B " "	
+58 44		4	4.85	A1 V	"	" " D " "	
+46 01		"	3.62	B3 IV	"	" " A " "	
+38 42		"	0.04	A0 V	30	" " A " "	
-07 07		"	5.04	B0.5 III	"	" " D " "	
-01 23		"	4.28	B5 III	"	" " D " "	
+32 37		"	3.20	B9 III	"	" " " " "	
+45 02		"	2.97	B9.5 III	"	" " " " "	
+32 06			5.69	B1.5 Ia		" " D " "	
+15 44			3.86	B9 IV		" " D " "	
+36 20			4.47	B5 IV		" " " " "	
+47 16			5.76	B8 Ia		" " " " "	

Date Observer *La* Julian Day

Mai

La

Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.
886-95	5 Cyp.	21 15.9	+39 14	H Y	X 2	0.20	5/5	01:58	
887-95	9 Cyp.	21 36.8	+61 54	H Y	X 2	0.20	5/7	02:13	
888-95	10 Cyp	21 44.3	+60 57	"	"	"	5/6	02:25	
889-95	14 Cyp	22 00.7	+57 48	H Y	X 2	"	6/3	02:58	
890-95	19 Cyp	22 03.9	+62 05	"	"	"	6/2	03:09	
891-95	4 Lac	22 22.8	+49 14	"	"	"	5/5	03:21	
892-95	10 Lac	22 37.5	+38 51	"	"	"	5/5	03:34	
893-95	w ² Aql	23 40.6	-14 46	H Y	X 4	"	5/6	03:50	

ome Temp.....

ocus.....

ome Temp. 72°F

Transparency Conditions

still very good!!

156

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
		+39 13	5	4.28	B9Tab	30"	M.R. List D 1 A ⁶ sec 2"/m	
		+61 53	"	5.71	B2 Ib	30"	" " " " " "	
		+60 54	"	4.66	A2 Ia	"		
		+57 24	"	5.50	O9 V	"		
		+62 05	"	5.17	O9.5 V	"		
		+49 13	"	4.64	B9 Tab	"		
		+38 48	"	4.91	O9 V	"		
		-14 46	"	4.62	B9.5 V	"		

Please check Brown - had to replace
roll of paper + it stuck occasionally
ha

151

Date ~~the~~ Tues/Wed July 28/29 1959 Observer La - H^{MR} Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.
894-95	K Oph	16	55.8 + 09 26	5000	-3600	0.070	6/2	20:40	
895-96	{ β Oph	17	41.5 + 04 35	5000	-3600	"	6/2	21:10	
	{ β Oph	"	"	"	"	"	6/2	21:38	
24885	H.D. 170010	18	22.2 + 06 28	I 12 1/2	E103A0	016	31.0°C	22:15	23:45
24886	{ BD + 27° 3513	19	42.9 27 48	"	"	008	31.5	0025	0313
	{ House) t, O) B								

ome Temp. 80°F

ocus.....

ome Temp. +74

Transparency Conditions poor till 22:00

0100 Patches of thin cloud.
0200 Cloud.

752

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
		+09 25		4.33	K2 III	large	4 A/sec 2"/min	
		104 35		2.60	B2 II	large	" "	
		" "		5.90	K2 III	"	" "	
		" "		"	"	"	2 A/sec 1"/min	
23:45	126 SW	+06 29	0	8.4	B7	1-1-1	Sitts' B-Type Std Vel Star sens 9 60 counts 4013 - (reading)	1 week
03:13	35 W	27 56	0-1	8.3	A2 Ia	2-2-2	" 2 OB. 4080 - 4098	1 week
						8/6	" 8 2 P.H. in f.g.	
							2300 Solid cloud. focus OK	
							Who stars are stuck? it's back	

Date Wed/Thurs July 29/30 1959 Observer La - McC Julian Day 175

[illegible]

ome Temp. 78 f

Focus.....12.95.....

Room Temp. 71.1

Transparency Conditions

Fair

154

cloud till 22'00 00:15 seems quite bad. 1.12

0130 See in now ^{very} good. Ground fog.

[illegible]

Date THUR-FRI JULY 30/31 1959 Observer DH - msc Julian Day 182.5

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.
24891	HD 176522	18 55.5	+40 33	I-12	E103a-U	008	30°C	21 35	21 53
24892	BD +28 3438	19 38.1	+28 46	"	"	016	30°C	22 09	23 33
24893	BD +31° 39 21	20 00.3	+31 53	"	"	016	29.8	23 46	00 50
24894	HD 235673	21 54.0	+52 20	"	"	"	30-1	01 00	03 04
24895	HD 216869	22 07.9	+51 56	"	"	.008	30.0	03 11½	04 11½
	Focus Test	OTB							

ome Temp. 30°F

ocus.....

ome Temp. 68°F

Transparency Conditions Cloudy Early

Cloud & fog 2245 Aurora 2315

0250 patches of light cloud

756

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
							Missed other 4 sets	
2153	51 E	+40 38	10	6.0	B5	2	B Std Vel Set 5 Sens 6 4296 - 4300	list
2333	07 W	+28 56	0	8.7	B2V	1-1-1	OB (p76) Set 5 Sens 9 4304 - 4374	fine
0050	02 W	+32 00	0-1	8.8	B1Ib	1-1-1	OB (p76) Set 5 Sens 9 4381 - 4441	fine
304	22 W	+52 36	0	9.4	07	1-1-1	OB (p20) Set 5 Sens 10 4445 - 4564	fine
410	52 W	+52 13	0	7.5	09Ib	2-2-2	MK Std Set 5 Sens 8 4568 - 4588	fine
						8/6	Set 9	focus ok
							3PH +6	
							* numbering on the plate - cramped and hard to read	

Date Fri July 31 - Aug 1/59 Observer L-Hv Julian Day 174

[illegible]

Dome Temp.....

Good

750

0130 EDT FIRE NEAR LANGSTAFF.

[illegible]

759

Date Sat Sun Aug 1-2, 1959 Observer Dg - Nyai Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	SLt	Temp.	Starting Time E.S.T.	Ending Time E.S.T.
24 898	BD +25° 4033	19 59.8	+26 00	I-12	E103Aa	set .016	+20.8°C	23 07	01 15
24 899	BD +60° 2380	22 15.6	+60 16	"	"	"	+20.8°C	01 29	02 46 ^(56?)
24 900	HO 217811	22 58.2	+43 31	"	"	"	+20.8°C	03 08	03 12
	"	"	"	"	"	.008	+20.8°C	03 14	03 22
	"	"	"	"	"	.008	+20.8°C	03 23	03 38
	"	"	"	"	"	"	+20.8°C	03 39	03 43
24 901	o Cas	00 39.2	+47 44	"	"	"	+20.8	03 56	03 57
	"	"	"	"	"	"		03 59	04 00
	"	"	"	"	"	"	+20.8°C	04 02	04 04
	Focus Test with 24 898			OTB					

ome Temp. 61°F

ocus. 12.95

ome Temp. 57°F

Transparency Conditions

clear Some green 760

Dg, Hai, Sr showed after
and H13 (magnificent) to 175 visitors

Ending Time E.S.T.	our Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
01 15	35 W	+26° 09'	0	9.4	B ₁ III	1-1-1	Set 5 - OB program sens. 9	60 counts 4777-4837 fine
02 46	01 W	+60 31	0	9.43	B ₂ III	1-1-1	Set 5 OB program Sens 9	60 counts 4833-4913 fine
03 16	0 34 W	+43 50	0	6.1	B ₃ M.S.	1-2	Set 2 BTYPE STD. VEL. Sens 6	4919-4921
03 24	0 44 W	+43 50	0	6.1	B ₃ M.S.	3	Set 5 "	4921-4923 all too strong
03 38	1 00 W	+43 50	0	6.1	B ₃ M.S.	2-2-2	Set 8 "	4924-4928
03 43	0 5 W	"	0	"	"	comp. 10 ¹ / ₂	"	4929-4930 strong
03 57	0 22 E	+48 02	0	4.70	B ₂ V	6	Set 2 MK std Sens 5	2 counts l. strong
04 00	0 19 E	"	0	"	"		Set 5 "	1 count fine
04 04	0 15 E	"	00	"	"	6	Set 8 "	4940-4944 v. strong
						8/6	Set 2?	
							3 P.H. + 0	focus OK (plate turned around)

Date Sun-Mon Aug 2-3, 1959 Observer La-Hv Julian Day 172.5

[illegible]

Eme Temp... 68°F

Fcus.....

Eme Temp.....

Transparency Conditions good.

762

seeing very bad at first - gradually improving to about 0 at 23:00

Ending Time E.S.T.	Bur Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality	
1/45	0:57W	+45 24.	^{corrected} 0	7.3	B3	1-1-1	Set 5 Btype std	sem 8 ^{poor finding} 4948-4968	1 wk
002	0:43W	+28 06	"	8.6	07	1-1-1	Set 5 O.B.	sem 9 4970-5031	weak
032	4:05W	27 55	0-1	8.3	AzIa	1-1-1	" 2 " ^{2/100 haze + cloud} (all night)	" 8 5033-5053 ^{comp. weak.}	fine
						4/3	" 8		
							4 P. H. in fig.		

Date Thurs/Fri Aug 6/7 1959 Observer L - McC Julian Day 174

[illegible]

Dome Temp. 70°F

Focus 12950

Dome Temp. 66

Transparency Conditions

good

764

light cloud at 0005 to 0030

0130 star almost disappears in slit

0140 cloud lost star for 20 min.

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
22 2	00 09W	28 07	1-1-	8.3	07	15-1-1/2	st 5013 st 1 Vel (page 17b) Sh 8 5072	
							5091	fine
01 0	01 21W	+38 20	Var 0-1-2	9.6	B.Iab	1-1-1	OB set 5 (page 9) guiding Sens 9 5095	good
01 30	01 20W	+55 10	0-2	9.6	B.Ib	1-1-1	OB set 5 (page 20) guiding Sens 9 5163	fine
						4/3 Set 9	5164	
							5219	
							focus OK	
							Clouded Out	
							3PH + 6	

E, meter fixed at .9 for 1st exposure
correct for 2466

Had ex. meter
sens 10 for
unknown period
Probably
about 10
counts.
(5203-
5212)

Date Sat/Sun Aug 6-7Observer DH - Mai Julian Day[illegible]

Dome Temp. 69°F

'ocus.....12.95.....

Room Temp. 71°F

Transparency Conditions

N, Mai. DH showed 5 Hercules to about 170 visitors
some clouds during first hour.
Cloud 2320 from Southeast Overhead 2350

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality	
2400	34W	+38° 05 ^m	1.0	7.12	B1.5 Ib	2-2-2 MK Std	Sens 7 5247-52	good
01 49.5	—	—	—	—	—	Plate closed early because of cloud		
01 53	—	—	—	—	—			
						2 P.H. + 6		

167

mon-Tues
 AUG.
 Date ~~Aug~~ 10-11 / 1959

MCC +
 Observer ~~La~~

Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P
24909	H.D. 158262	^h 17 ^m 23.2	+11° 31'	I-12½	E103-A0	008	24.58	20:28	2100	
	Focus Test									
896-97	HD 180554	^h 19 ^m 14.5	+21 19	HY X2		020	^{zero} 5/6	22 45		
897-97	12 Vul	19 49.2	+22 30	"	"	"	5/6	22 59		
898-97	V380 Cyg	19 49.3	+40 29	H8 X4		"	6/3	23 12		
899-97	HD 190603	20 03.1	+32 06	H8 X4		"	6/4	23 31		
900-97	57 Cyg	20 51.8	+44 14	H8 X2			5/6	23 54		
901-97	f' Cyg	20 58.4	+47 22	H8 X4			5/6	00 05		
902-97	v Cyg	21 16.2	+34 44	H8 X2			5/5	00 22		
903-97	9 Cep	21 36.8	+61 54	H8 X2			5/7	00 37		
904-97	v Cep	21 44.3	+60 57	H8 X2			5/6	00 48		
905-97	14 Cep	22 00.7	+57 48	H8 X2			6/3	01 00		
906-97	19 Cep	22 03.9	+62 05	H8 X2			5/7	01 10		
907-97	A Lac	22 22.8	+49 14	H8 X2			5/6	01 22		
908-97	12 Lac	22 39.7	+40 01	H8 X4			5/7	01 33		

Dome Temp. 73°F
 Focus. 12.95
 Dome Temp.

Transparency Conditions *Fair somewhat.*
 2050 clouds coming in from NW
 2230 sky clear - good!

163

Hour Angle E.S.T.	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
2100	$+11^{\circ} 25'$	0-1	8.6	A?	2-4 8/6	KA 8x8 Sens 5255-66 Set 2 3PH+4 focus OK clouded out	too weak
		10	4.6	B _{5n}	30"	M.R. List B 1A°/sec 2"/min	
		"	4.9	B ₄	"	" " " "	
		5	5.6	P ₃	"	" " " "	
		5	5.7	B _{1.5} Ia	"	" " " "	
		5	4.7	P ₅	"	" " " "	
		5	4.9	B _{1.5} Ic	"	" " " "	
		5	4.4	P ₃ nek	"	" " " "	
		5	4.9?	B ₂ Ib	"	List D " "	
		5	4.66	A ₂ Ia	"	" " " "	
		3	5.50	O ₉ V	"	" " " "	
		5	5.17	O _{9.5} Ib	"	" " " "	
		5	4.64	B ₉ Iab	"	" " " "	
		5	5.12	P ₂ III	"	" " " "	

Date ^{August} July 10-11 1959 cta Observer _____ Julian Day _____

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp. <i>Sens</i>	Starting Time E.S.T.	Ending Time E.S.T.	P.	Angle Ind
909-97	i And	23 36.1	+43 03	H7	x2	020	5/5	01 51			
910-97	5 Per	22 39.5	+10 38	H7	x2	070	5/3	02 04			
911-97	ψ^2 Agr	23 15.8	-09 24	H8	x2	"	5/6	02 20			
912-97	ω^2 Agr	23 40.6	-14 46	H7	x2	"	5/6	02 35			
913-97	γ Prg	00 11.2	+14 58	H8	x2	"	5/2	02 49			
914-97	Θ And	00 15.0	+38 28	H7	x4	"	5/6	03 05			
915-97	ξ Cas	00 39.8	+50 18	H7	x2	"	5/7	03 27			
916-97	o Cas	00 42.4	+48 04	H7	x2	"	5/5	03 42			
917-97	v And	00 47.6	+40 52	H8	x2	"	5/5	03 53			
918-97	K Cas	00 30.7	+62 42	H7	x4	"	5/5	04 07			

170

Dome Temp.....

Focus.....

Dome Temp.....

Transparency Conditions *excellent*

Ran dec slow motion to end of travel. Ran back
about 1/2 width of finder field.

ing Time
E.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
		10	4.28	B ₈ V		MR List D 1 A/sec 2"/min	
		"	3.61	B ₈ V		" " " "	
		5	4.65	B ₅ V		" " " "	
			4.62	B _{9.5} V		" " " "	
			2.87	B ₂ IV		" " " "	
			4.44	A ₂ V		" " " "	
			4.85	B ₂ V		" " " "	
			4.70	B ₂ V		" " " "	
			4.42	B ₅ V		" " " "	
		4.24	B ₁ Ia			" " " "	
						The Sun	

$Tu/w e.$

Date.....August 11-12.....1959

Observer... *W.B. - H.V.* Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.I.
249 ¹⁰ 09	BD+45° 3406	21 ^h 03.0	+ 45° 27'	12"	103a0	16'	26°C	20 ^h 47 ^m	22 ^h 47	2
2491 ¹ 0	HD 213014	22 ^h 23.4	+ 16° 46'	12'	102a0	8	27°	23 ^h 21 ^m	00 35	
2491 ² X	BD+53° 2843	22 15.0	53 46	"	"	0/6	27	00 54	02 20	4
2491 ³ X	HDE 235825	22 19.7	54 49	"	"	"	27°	02 30	03 36	
} Focus 75 07B										
159	AUG. 13 - <i>Maui</i>									
	COMPLETELY OVERCAST AT		10:00	E.S.T.						
	"	"	01:00	E.S.T.						
	"	"	02:00	E.S.T.						
	"	"	03:00	E.S.T.						

173

Could not find HD 22071 (or page 22) in finder
eyepiece. Diffin mag was not as great as BD
chart shows

Date Thurs Fri Aug 13-14/59 Observer La + McC Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.
24914	HD 139992	15 36.2	+56 13	1-12 1/2	E103a-0	008	29.7	20 13	21 03	1
24915	HD 172068 mp FF	18 33.0	+41 12	"	"	"	"	21 17	22 03	2
919-98	HD 180554	¹⁹⁶⁰ 19 14.5	¹⁹⁶⁰ +21 19	HY	X24	020	¹⁹⁶⁰ 28.1°C	22 12		
24916	6.9 Cyg	¹⁹⁰⁰ 21 21.7	+36 14	1-12 1/2	E103a-0	008	28.1°C	23 34	23 41	3
	"	"	"	"	"	"	"	23 42	23 44 1/2	"
	"	"	"	"	"	"	"	23 45	23 55	"
24917	HD 207673	21 45.6	+40 40	"	"	"	28.0°C	00 00	00 15	4
								00 10 1/2	00 15 1/2	
								00 16	00 18	
24918	12 Lac	22 37.0	+39 42	"	"	"	27.0°C	01 04	01 06	1
								01 07	01 08	
								01 09	01 15	
24919	HD 212883	22 22.1	+36 57	"	"	"	"	01 19	01 33	2
24920	HD 223960	23 48.9	+60 18	"	"	"	25.8°C	02 05	02 51	3
	1 over									

(N.B. when the thermometer

Dome Temp.....

Switch for end going on
thermostat making poor contact
Closed passing at 2.05

Transparency Conditions

ns light cloud at sunset 77°
clearing 21:30 to good
2230: cloud

Exposure Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality	
1 03	2 34W	56 00	0	7.20	B ₉	2-2-2 K ₁ 8x8 Set 5	guiding Sens 8 5578 56.02	good	
2 03	0 37W	+11 14	0	7.6	A ₃ ?	2-2-2 " " "	⊙ guiding eye piece Sens 9 5603 56.63	good	
						8/6	focus OK		
			10	4.6	B ₅ W	30" MR. Spectrophotometer (clouded out) List 6	1A/sec 2"/min		
3 41	0 34E	+36 30	0	5.84	B ₀ Ib2	missed star 4 M.K. Std. set 2	Sens 6 56.64 56.66	good	
3 41	0 30E	" "	1	"	"	6 set 5	" 1 count	lucky	
2 56	0 0 19E	" "	0	"	"	none set 8	" 4 count	lucky	
0 0	00 29E	+40 57	0	6.5	A ₂ Ib	6 M.K. Std set 2	guiding Sens 7 567.17 567.54	good	
0 15	0 23E	" "	"	"	"	— set 5	" 2	lucky	
0 16	0 0 1W	" "	1	"	"	— set 8	cloud again " Sens 8 5697 5625	lucky	
0 10	+40 00	0	5.18	B ₂ III	M.K. set 2	plate number 24 919	Sens 7 5685 87 88	lucky	
0 01	" "	"	"	"	"	set 5	" 1	good	
0 15	0 0 35 E	" "	1	"	"	6 set 8	" 4	lucky	
0 33	0 15W	+37 13	0	6.2	B ₂ M.5	2-2-2 set 5 B-Type Std Vel Stars	(guiding) Sens 7 5693 98	fine	
0 34	0 09W	+60 38	1-2	6.7	A ₀ Ia	2-4 M.K. Std set 2	check focus field Sens 7 5649 5705	5 1/4 fine	
0 34	was not it was not turned on. This was corrected for plate 24 121)								fine

Date Thurs/Fri Aug 13-14/59 ^{std} Observer Mee & La Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P
24921	γ Peg	00 08.1	+14 50' ⁸	I-12 1/2	E103a0	008	25.8°C	03 00 30		
	Focus Test		07 B				25.8		03 19	

Home Temp.....

Transparency Conditions

Poor

776

ocus.....

Home Temp. 74° F

our Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
	+14 58	0	2.97	B ₂ IV	6	1/2 MK Std set 0 15 sec	weak
		0				set 2 30 sec	weak
		0				set 4 1 min	fine
		0				set 6 5	too strong
319 17W		0			8/6	8 2 min	fine
						Set 10	focus OK
						clouded out.	
						4PH+4	

taken through
cloud cloud

ome Temp... 8.6°F

ocus... 12.95

ome Temp... +75

Transparency Conditions Good - haze on horizon

77°

ending Time
E.S.T.

	our Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
14	0 01W	+06 27	2-3	8.4	B7M.S	1-1-1	285/10 sec. 60 counts. B-TYPE 5716-5776 STO. VEL.	fine
14	2 18W	+46 00	2-1-0	10.15	B0 III	1-1-1	285 OB (Pg. 12) Sens 10 5800-5928	fine
10	200 W	54 53	0-1	8.7	As Ib	1-1-1	" 2 " " 9 5925-5989	fine
						4/3	" 9	fine OK
							1 P.H. in brig.	

Sat. Aug. 15, 1959
Cloudy, thunderstorm. Dg McC La
demonstrated telescope, showed film
on the Moon to about 150 visitors.

179

TUES-WED

Date 1959 Aug. 18-19

Observer

Zai-Hv

Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P	Angle in
24925	H0 172044	18. 32.9	+33 23	I-12 $\frac{1}{2}$	E103a0	0.008	26.30	20 10	20 15	1	51E
	"	"	"	"	"	0.008	"	20 16	20 24	4	40E
	"	"	"	"	"	0.008	"	20 27 $\frac{1}{2}$	20 30	4	36E
24926	80+27° 3513	19 42.6	+27 48	"	"	0.008	26.40	20 48	22 48	1	32W
24927	80+45° 3230	20 33.9	+45 47	"	"	0.016	26.30	23 00	04 14	2	11W
	77. 7 + 07B						25.7				

Time Temp. 74°F

Focus 12.95

Time Temp.

Transparency Conditions Fair - HAZE ON HORIZON 180

Seeing horrible
2345 SCATTERED LIGHT CLOUD IN NW.

Ending Time E.S.T.	Sur Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0 15	0 51 E	+33 26	0.0	5.4	B9M.S.	2-4	SD5 BTYPE STD VEL. Sma 5 5996-5998 2 counts.	interesting
0 20	0 40 E	"	0.0	5.4	"	2-2-2	SD 2 " " " " " 5999-6003 4 counts	fine
0 30	0 36 E	"	0.0	5.4	"	6	SD 8 " " " " " 1 count.	1 count
0 40	0 32 W	+27 57	0-1	8.3	AzTa	2-2-2	SEEMED ABOUT MAG. 10. SD5 OB (Pg. 7b) Sma 9 6005-6005 60 counts.	fine
0 45	5 07 W	+46 00	0-1	10.15	B0 III	1-2	SD2 OB (Pg. 12) Sma 10 6067-61 120	good
						4/3	" 8 focus OK	
							2 P.H. in bag.	
							8 Plates in box with ray wrapper 2 in the box in Ponce. 4 of the apparently left in the dome for some days. The other four were unexposed while some lights were on and may be fogged.	

WED-THUR

Observer DH - MCC

Julian Day

[illegible]

ome Temp. 76°F
 ocus 12.95
 ome Temp.

Transparency Conditions Cloudy, clearing at 2230
 Cloud 2320

182

our Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
338 04W	+34 41	0	6.5	B4 8/6	2-2-2	B Std Set 5 Sen 6 6257-6259 MK Std Set 9? (Plate had been removed jump) 0115 Clouded out 3 PH + 6 Are clocks correct time? Sat Aug 22 S - La - Sr - Ku Cloudy - clear two stars. 65 visitors 8:30, 10:00 & 11:00 but group of 25 arrived at 10:00 saying they had given that time. 11:30 showed slides to home comp after telescope demonstration. La - Sr demonstrated telescope for 10:30-11:00 00:00 sky completely overcast weather forecast - continued cloud - ha	fine

183

Date Mon-Tues Aug 24-25, 1959 Observer D. McC Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	Angle End
24929	BD +28° 34.85	19 ^h 44.9	+28° 34'	I-12	E103AD	^{.008} x016	31.2°C.	20 ^h 45 ^m	0047	4 15°W
24930	HDE 235807	22 17.4	+55 03	"	"	016	30.0	01 00	02 38	12V
24931	BD +61.39	00 14.8	+61 55	"	"	"	30.0	02 48	03 28	30W
24932	HD 14134	02 12.1	+56 40	"	"	008	30.0	02 38	03 45	37E
24933	HD 17378	02 42.2	+56 40	"	"	"	30.0	03 59	04 02	L
								04 03	04 09.	
								04 10	04 20 1/2	32E
	Focus Test		OTB	"						

ome Temp.....

Transparency Conditions

Clear

1899

[illegible]

Date TUES-WED AUG 25-26 1959 Observer DH - McC Julian Day 175.5

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P
24934	HD 158262	17 ^h 23. ^m 2	+11 31	I-12	E103A0	008	31.2°C	20 ^h 11 ^m	22 ^h 15 ^m	W
24935	HDE 221807	22 17.4	+55 03	"	"	016	31.2	22 56	01 34	W
24936	{ BD+55 2748	22 21.5	+55 47	"	"	"	31.0	01 42	04 42	W
	Focus Test		07 F							

Date SAT-SUN 29/30th August Observer VB-MCC Julian Day SR

Night 98
seems to have
been melted

Room Temp.

788

0015 Thick ground fog + haze
coming in from south. Spectrophotometer acting queer.
Lots of extinction

Starting Time E.S.T.	Bour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
				4.8 B5			irregular non repeatable profile - Range?	
				0.04 A0V			fuzzy star? List: B 1 A°/sec 2"/mm this will check conclusions A " "	Good freezing
		47°20		4.9 B1Ve			B " "	
		39°10		4.2689 Idh			D not a spec - mag	

0045: clouded out

Brown unplugged! Mr H presume

Aug 31. MC SC MTW SRW SW ME
 -120 +50.6 -5.4 +29.9 -31.4 +1.8

170 visitors - showed M13
one fellow said he planned this
morning and was told to come
anyhow - his name was not on the
list!

Date we/44 Sept 2/3 1959 Observer W.B. - Jai Julian Day

[illegible]

Dome Temp. 72°F

ocus. 12.95

Dome Temp. 69°F

Transparency Conditions

Hazy (QUITE)

190

02:00 CLOUD & MIST CREEPING UP
FROM SOUTH.

02:30 COMPLETE CLOUD BLANKET.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
4 11. W	+38° 21'	0/1	9.9	Bo: Ip	1 H H	Ass III cyg (1+) ← Vixen Field Jan 10 6809 - 6929 pos 5 Pinew Field see 21637 6931 - 6934	Too weak H. sm
	+61° 25.5	0	9.2	Bo.5 Ib	1-	OB (Agg. 18 P 24) Set 5 - Set 7 CLOUDED OUT	Nothing focus OK.
					4/3		
						1 P. H. + 0	
						FLASHLIGHT BATTERIES GETTING LOW.	

191

Date Thurs Sept 3-4/59 Observer Hd-McC Julian Day 210

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P
24938	HD 174886 ^{HD 174886}	18 47.6	-10 21	I-25 ^{I-25}	E0340	008	16.0	20 02	20 52	2
24939	HD 178849	19 05.1	34 35	"	"	008	16.0	21 04	21 18	3
						016		21 15	21 18	42
24940	BD +45° 3406	21 03.0 20 53.2	45 27 45 58	"	"	016	^{must be 26.0}	21 33	00 12	W
24941	BD +55° 2748	22 21.5	+55 47	"	"	"	25.8	00 20	04 20	W
24942	HD 14143	02 12.2	+56 43	"	"	008	25.8	04 23	04 43	W
	Focus Test		OTB							

ome Temp. 65

Excellent

192

[illegible]

1973

Date ^{FRI-SAT} Sept 4-5 1959

Observer DH - H ✓

Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P	Angle End
24943	HD 192422	20 ^h 09. ^m 7	+38° 28'	I-12	E10340	008	26.0°C	21 ^h 50 ^m	2204	1	53W
	"	"	"	"	"	008	"	22 06	2226		51W
24944	HD 209900	22 ^h 01.6	+53 01	"	"	016	25.7°C	22 52	00 08	6	14W
24945	BD +53° 2827	22 11.6	53 48	"	"	"	25.8	00 23	03 23	*	10W
24946	HD 14542	02 15.9	56 56	"	"	"		03 44	03 52		19W
24947	" 20365	03 11.5	49 51	"	"	008		04 12	04 11		
	"					"	"	04 16	04 19		
	No. 2 out		07B			"					

Dome Temp. 73°F

Focus.....

Dome Temp.....

Transparency Conditions.....

Scattered clouds 2100 - 2200

Declination motion broke, repaired 2130

194

* Star too faint to see in eyepiece.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0204	0 28 W	+38° 37'	0	6.9	B ₅ Ib	2-2-2 Mk Std Set 2 Sens 7 7268-72 4 counts	Strong
0220	0 50 W	"	0	6.9	"	— Set 7 Sens 7 7274-82 8 counts	Strong
0008	0 41 W	+53° 17'	0 ^{var} -1	9.0	A0 Ib-II	1-1-1 OR P20 Set 5 Sens 9 7289-7349 60 counts	Strong
0323	3 46 W	54 05	0-2	10.6	B ₂ III	1-2 " " 2 " 10 7356-7393	Guiding too much
0352	5 09 W	"	0-1	7.2	B8	2-1 B Standard " 8 7 7396-7399 4 counts	Compensate
0411	"	"	2	5.1	B3	3-3? " 2 " 5 2 counts	Strong
0419	20 E	50 02	"	"	3-3	" 5 4 counts	Strong
					8/6	" 9	

1 PH in fig.

Note re 24944: At Count 7324 small pilot light near prism went on. Apparently switch was not properly closed D.H.

7915

Date Sat - Sun Sept 5-6 1959 Observer Se Mai - Mai MS Julian Day 195

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.
24948	VW Cephei	20 ^h 38.7	175° 14'	I 12	E 103a0	ect .008	26.0°C	23 ^h 35 ^m	23 55	1
24949	"	"	"	"	"	"		23 36	00 34	1
24949	o Cas	00 39.2	+47 44	"	"	"	26.0°C	02 08	02 08	2
	"							09	10	
	"							11	14	
24950	HD 10497	01 37.3	+52 23	"	"	"	26.0°C	02 41	51	1
	"	"	"	"	"	"	"	52	56	
	"	"	"	"	"	"	"	57	03 17	
24951	HD 12953	02 01.7	+57° 57					03 25	29	1
								03 30 ¹ / ₂	03 32 ¹ / ₂	
								03 33	03 40	
24952	HD 15497	02 24.6	+57° 15	"	"	"	26.0°C	03 56	04 06	1
	"	"	"	"	"	"	"	04 07	04 12	
	"	"	"	"	"	"	"	13	31	
24953	HD 21291	03 21.0	+59° 36	"	"	"	"	41	42	
	"	"	"	"	"	"	"	04 42	04 42 ¹ / ₂	

Home Temp. $+70^{\circ}\text{F}$
 Focus 12.95
 Home Temp. $+67^{\circ}\text{F}$

Transparency Conditions

Good

{ 150 people show }
 { 5 Here }

796

End Time EST.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
55	1 ^h 58 W	$+75^{\circ} 28'$	0	8.1	G6K1	2-2-2	Set 2. Ms VW program test exp. 10 counts Etketij8	fine
34	" 38 W	"	1	"	"	2-2-2	Set 5 Ms VW 20 counts EM set 8	fine
2 08		$+48^{\circ} 03'$	1	4.70	O2V	2-2-2	Set 2 MK Std. 5 1 counts	strong
10		"	1	"	"		Set 5 " " 4 "	fine
14	0 11 W	"	1	"	"	6	Set 8 " " 4 counts	strong
51	0 08 E	$+52^{\circ} 40'$	1	6.9	F5 Ia	6	Set 2 " 7 4 counts 7471-7475	fine
50	0 04 E	"	0-1	"	"		" 5 " " 2 "	break
03 17	0 07 W	"	0	"	"	6	" 8 " " 8 " 7479-7487	strong
29	0 04 W	$+58^{\circ} 11'$	0-1	6.0	A1 Ia	6	Set 2 " 6 2 " 7488-7490	fine
03 32	0 08 W	"	1	"	"		" 5 " " 1 "	break
03 03	0 15 W	"	0	"	"	6?	" 8 " " 4 " 7492-7496	strong
04 04	0 18 W	$+58^{\circ} 27'$	0-1	7.0	B6 Ia	6	" 2 " 7 4 " 7498-7502	fine
04 12	0 24 W	"	0	"	"	2-2-2	" 7 " 112 2 " 7503-7505	guiding
3	0 043 W		0	"	"	2-2-2	" 8 " 7 8 " 7506-7514	strong
02		$+59^{\circ} 46'$	0-1	4.4	B9 Ia	6	" 2 " 4 2 counts 16 - 18	strong
25 00			0.1	"	"		" 5 " 1 "	fine

Date Sat-Sun Sept 5/6 1959 Observer - Bai Julian Day

[illegible]

Dome Temp. $+70^{\circ}\text{F}$

Focus 12.95

Dome Temp. $+67^{\circ}\text{F}$

Transparency Conditions *Good*

198

Star Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
45	0000	$+59^{\circ}46'$	0.1	4.4	592a	2-22SD &	MK Sd. 4 counts 7523 - 7527	<i>starry</i>
4 P.H. + 5 N. 13.							Finder telescope out of alignment Image way over to W in finder when on cross-hair in Visitor's eyepiece. One of MK std dec. precessions seems to be way off of. HD 15497 Someone <u>please</u> develop the plates.	

799

Date ^{Sun. Moon} Sept 6-7, 1959Observer *Gai-Hv*

Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P
24954	HD 170010	18 22.2	+06 28	I-12½	E10320	0.008 0.016	28.00	19 47	21 23	42W
24955	BD+47°342	21 25.0	+47 37	"	"	0.016	28.20	21 53	03 45	23W
24956	ADS 1262A	01 30.8	58 08	"	"	"		04 09	04 17	3
	"	"	"	"	"	"	28.3	04 18	04 30	30W
	<i>Fr. and 9. t.</i>		07B			"				

Home Temp. 78°F

Humidity 12.95

Home Temp.

Transparency Conditions

Clear Hazy on horizon 200

Some time was spent on changing position of finder telescope crosshairs, using a bright star for the purpose. This rectified last night's situation.

Cloud to north Mild setting in over fields

OPENED SLIT TO 0.016 AFTER 15 MINS.

Reading Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
1:22	142W	+06 27	0-1	8.4	B7	2-2	SD 5 B TYPE STD. VEL. Sens 9	60 counts 7537-7597 fine
3:45	1303 W	+47 51	0-1-2	10.12	AaTab	1-1-1	" 5 OB (Pg. 12) Sens 10	120 counts 7600-7720 fine
4:17			0-1	7.4	B5	3	" 2 B. STD. VEL. " 7	4 counts 7723-6 fine / grey
4:30	1410 W	58 24		"	"	1-2	" 5 1/2 " 7	8 counts 7728-35 strong / red
						4/3	" 9	OK

1 P.H. in fringe

MON - TUES
Date. Sept 7-8, 1959

Observer DH - H/r ^(M_c) Julian Day

[illegible]

Dne Temp. 81°FFous. 12.95

Dne Temp.

Transparency Conditions

0215 Clouds

202

ending Time E.S.T.	Dir Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0042 ^m	33 ^m E	+32 01	0-1	8.8	B1Ib	1-1-1	OB Prog R7b Set 5 Sens 9 ^{62 counts} 7746 - 7808	fine cond
031	17 E	+55 19	0	9.77	B05IV.m	1-1-1	OB Prog p14 Set 5 Sens 10 ^{110 counts} 7915 - 7925	good
0341	20 W	+52 13	0	7.5	09Ib	2-2-2	MX Std Set 2 Sens 8 ^{8 counts} 7944 - 7952	good
	46 W	+52 13	0	7.5	09Ib	—	MX Std. Set 7 Sens 8 ^{16 counts} 7953 - 7969	good
050	02 W	+75 29	0	8.1	G6+K1	1-1-1	Ms VW Prog. Set 2 Sens 8 ^{20 counts} 7974 - 7994	good
031	241 W	54 51	0-1	8.7	A5Ib	1-1-1	OB, " 2 " 8 ^{2 counts} 7996 - 8016	good
031			0-1	6.2	B1	3	B STD " 2 " 6 ^{2 counts} 8018 - 8019	fine
031	33 W	56 51				3	" " 6 " ^{4 counts} 8020 - 8023	good
				4.3	B7		B STD " 2 " 4 1 count	good
							" 5 " 1/2 count	fine
0420	00 E					3	" 9 " 2 count	sharp
						4/3	" 9	comp. weak all mag
							1 P.H. in fig.	

ALF

203

Date Tue - Wed Sep 8/9 1959 Observer MR - McC Julian Day 195
(mcc)

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.
24964	55 Cyg	20 ^h 45.5	+45° 45'	T-12	103a0	set .008	31.0	21:39	21:49
24965	σ Cyg	21 ^h 13.5	+38° 59'	"	"	"	"	22:18	22:40
24966	9 Cep	21 ^h 35.2	+61° 38'	"	"	"	"	22:48	23:02
24967	13 Cep	21 51.5	+56° 08'	"	"	"	31.0	23:19	23:24
24968	ω² Agr	23 37.5	-15° 06'	"	"	"	"	23:24½	23:27
								23:28	23:29
24968	ω ² Agr	23 37.5	-15° 06'	"	"	"	31.0	23:54½	
24969	HD 4694 focus Test	00 43.9	+64° 05'	"	"	"	"	00 42	00 48 01 34
			OTB						

Home Temp. 84°F

Transparency Conditions

very hazy

204

Focus.....

Home Temp.....

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
21:49	0°00E	+4555	2	4.89	B3 Ia	6 ^s	set 2 1 count, 4 counts, 2 counts MK std	1 str
22:40		+39 12	"	4.28	B9 Ia	6 ^s	set 2 1 count 2 counts - 4 counts " "	fine
23:02			"	4.87	B2 Ib	6 ^s	" " " " "	fine
23:14		+56 22	1	6.01	B8 Ib	—	2 1 count Sens 6 " "	fine (guiding)
23:22			"			—	set 5 1 count " "	"
23:29	0 37W	+56 22	1-2	—		6 ^s	8 4 " " "	"
		-14 47	1	4.62	B9.5 I	—	Set 2 10 Sens 6 2 counts	good
						—	5 MK std 1	
						6	8 MK std 4	
01:00	0 40E	+64 23	1.2	8.9	B3 Ia	1.1-1	OB p 24 Set 5 Sens 7 8128 8190	wk
01:10	2 22E					4/3	set 9	OK
							1 p.h. + 4	
							<u>Sept 1.9</u> MC SC -15 +4.8 MTW -1.4 21° STW -1.1° SW +5.6 ME -3.9 S +9.8	

205

Date Weeks-Thurs Sept 9/10 Observer Hd - H_v Julian Day Ms

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	F	Angle that
24970	VW Cephei	20 38.7	+75° 14'	12 1/2"	Il-a-D	-008	32°C	19:37	21 33		Σ
24971	^{HD 228383} HD 228383	21 57.2	56 14	"	103aD	"	31.0	21 48	23 14		W
24972	^{MWC 402} HD 223501	23 45.0	61 39	"	"	"	31.0	23 23	00 27		SE
24973	" 12302	01 55.6	59 12	"	"	"	31.2	00 43	02 53		
24974	" 20017	03 07.9	48 19	"	"	"	31.1	03 15	04 41		
	No. 2			09B		"					

ome Temp. 82°F

Transparency Conditions

Hazy

206

ocus.....

ome Temp. +76

0050 Foggy

0108 Can't see other building.

0320 Fog gone

Brilliant fireball Zenith NW to Cygnus 3^s trail

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
1 33	10 E	+75° 25'	0	8.1	G6+K1	4-4-4	Set 5 for S. horizon runs 8	8214 at 20 ^h 33 ^m
2 14	10 W	56 28	1	8.1	B(5)	2-2-2	" 5 Be prog. " 8	8194-8234
3 27	025 E	61 59	1	8.2	B3e	2-2-2	" 5 " " " 8	8258-8278
4 53	011 E	59 27	0	8.2	B3e	2-2-2	" 5 " " " 8	8281-8301
5 11	030 W	48 32	0-1	7.9	B9nc	2-2-2	" 5 " " " 8	8304-8325
						8/6	" 1	
							1 P.H. in friz.	

fine
l-str.
dark comp work
fine comp work
etc.

207

Date Thu/Fri Sept 10/11 Observer vdB - Bai Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P
24975	BD 47°34'21	21 ^h 25.0	+47° 37	32"	103a0	0 16	28°	20 45	23 ^h 18	
24976	HO 13667 MWC 29 FOCUS TEST	02: 08.1	+54° 04	12 ¹ / ₂ "	E103a0	01008	18.9C	03.16	04 04	
			O.T.B.				18.7C			

209

Date Fri Sat Sept 11/12 Observer Se. Mai Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.	Star Angle Incl
70t	β^1 Cyg	19 26.2	+27° 43'	I-12 $\frac{1}{2}$	10320	.008	17.5	20 57	20 55		245
"	β^1 Cyg	"	"	"	"	.016	17.5	20:56	20:58		275
Tests on scanners											
923-100	α Lyrae	18 33.6	+38° 41'				4/1	22:15			
924-100	α Cyg	20 38.0	+44° 55'				4/4	22:44			
925-100	α Cyg						4/1	23:20			
24977	HO 220771	23 21.4	+54° 34'	I-12 $\frac{1}{2}$	E10320	0.016	14.4c	00 27	01 21	1	21W+
24978	HO 217811	22 58.2	+43° 31'	"	"	0.008	14.4c	01 30	01 36	2	29W+
	"	"	"	"	"	"	"	0 39			
	"	"	"	"	"	"	"	01 39 $\frac{1}{2}$	42 $\frac{1}{2}$	2	5W
24979	HO 4694	00 43.9	+64° 05'	"	"	0.008 0.016	"	02 00	03 00	3	2W+6
24980	MWC 29 HO 13661	02 08.1	+54° 08'	"	"	0.008	14.4c	03 13	39	4	1W+
24981	MWC 49 HO 15472	02 24.4	+70° 30'	"	"	0.008	14.4c	03 54	04 30		5W+
24982	MWC 79 HO 24520	03 49.3	+44° 38'	"	"	0.008	14.4c	04 40	05 16		11W+
	FACTS TEST		OTB			0.008					

Home Temp. 60
 Focus 12.95
 Home Temp. +53°F

Transparency Conditions Clear
 3 visibilities shown moon
 2nd HALF EXCELLENT
 210

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
00.24E	+27° 50'	0-1		K	nil	set 9 1/2" focus tests on EM 4.3 counts	Focus 0
00.27E	"	0-1		K	"	set 10 1/2" same plate EM 4.4 counts	
			0.03				
			0.03	10	30"	5200 - 3400 both ways	
			1.35	10	30'	"	
			6.03	10	30	" twice both ways	
01.01W	+54° 52'	0-12	8.7	A5I6	1-1-1	SOS OB (Pg. 22) Sen 9 8395-8457	fine
01.39W	+43° 50'	1	6.1	B3M.5	6	SOS B TYPE STOVE Sen 6 8460 - 8462	fine
	"	1	"	"		Sen 2 " " " " 1/2 count	
01.45W	"	0-1	"	"	6	Sen 8 1/2 " " " " 1 count	
01.17W	+64° 24'	1-12	8.9	B3Ia	2-2-	" 5 OB (Pg. 24) " 9 8468 - 8538	fine
01.31W	+54° 20'	2-3	8.6	B3he	2-2-2	" 5 Be PROG. FIELD CHECKS " 9 8541 - 8602	too strong
01.05W	+70° 45'	2	8.0	B4he	2-2-2	" 5 Be " " Sen 8 8606 - 8626	too strong
01.28W	+44° 46'	2	7.8	B3he	2-2-2	" 5 Be " " " 8 8627 - 8644	too strong
					8/6	9	
						2 P.H. + 0	

211

Date Sat-Sun Sept 12/13 Observer Hol - M.S. Julian Day McC

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.
24983	VW Cephei	20 ^h 38.7	+75° 14'	12 1/2	baked II a-0	long ·016	17-1°	23:50	00:24	
	"	"	"	"	"	Normal ·016		00:29	01:03	
	"	"	"	"	"	long ·016		01:27	02:11	
	"	"	"	"	"	"	19-30	02:13	02:59	
	"	"	"	"	"	"		03:06	03:24	
24984	MWC HD 26906	04 ^h 10.1	+45° 58'	12 1/2	103a-0	normal ·008	19.3	03:56	04:36	
	Focus test					·008				

Dome Temp. 60°F

locus.....12.95.....

Dome Temp. 57°F

Hal, McC showed η, C
to 180 visitors.

Transparency Conditions

Transparency Conditions *Good after 23:00. 212*
clouds at dawn

clouds at dawn

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
03 2.54W	+75° 27'	0-1	8-1	KIKL	6-6-6	set -1 Ms-VW prog. Sense 8	#2
03 3.34W	"	1	"	"	4-4-4	+2 " "	by phone
03 4.42W	"	1	"	"	6-6-6	+4 " "	believe
03 5.30W	"	0-1	"	"	6-6-6	+6 " "	not believe
03 6.55W	"	0-1	"	"	6-6-6	+8 " "	3+4
03 7.29E	+46 06	0-1	8.6	B3me	2-2-2	set 5 Hd Be prog. Sense 9 N. Component fainter	fine comparison
Clouds at end. Closed 4:45							
1 PH. +0							

Date Sun - Mon Sep 13-14 Observer Se - H Julian Day

[illegible]

ome Temp. +58° F

ocus.....

ome Temp.....

Transparency Conditions

Clear

214

Declination slow motion works
intermittently.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp. disp.	REMARKS	Quality
		10"	0.03	AoI	30"	(1) sideal tin mid tra (2) standard tin mid tra	
		10"	3.71	B9V	30"	uv at 5/5	
		5"	5.9	Aoe	30"	Shell uv at 6/5	
	439° 26	10"	6.6	Ape	30"	Shell uv at 6/6 twice	
		10"	1.35	AzTa	30"	Clouds.	
						0030 Solid Cloud. Looks & feels like snow.	
						1 P. H. in fring.	

Date Tues Sep 15-16

Observer... ^{Hd} M.S

Hal
M.S.

Trai

Julian Day 2436827

© 172 15 13.9

3509.0

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.I.	Angle End
24985	VW Cephei	20 ^h 38 ^m 7	+75° 14'	12 1/2	Bakel II α-0	·016	11.70	20.08	20:40	1	38
						"		20 41	21.11		08
						"		21.12	21:46		26
							11.6	21.57	22 28		
								22 28 1/2	23 01 1/2		
								23 05	23 38		22
24986	"	"	"	"	"	"	11.2	23 39	00 15	2	51
						"		00 16	00 54		34
						"		00 55	01 26		
						"		01 27	02 02		
								02 03	02 22		
								02.51			

Time Temp. $+43^{\circ}F$

276

CLOUDY OUT!
1 P.H. + 0

277

Date Wed Run Sept 16/17 Observer rd B - La Julian Day 2436828
Ms Ms 0 173 13 42.9 3510.8

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P
24987	VW Cephei	20 ^h 38.7	4750 141.	12 1/2	baked IIaO	.016	11.0	19 ^m 48 ^m	20 ^m 16 ^m	
	"							20 ^m 18 ^m	20 ^m 46 ^m	
	"						9.8	20 ^m 49 ^m	21 ^m 16 ^m	
	"						9.2	21 ^m 18 ^m	21 ^m 50 ^m	
	"						9.8	22 15	22 37	
	"							22 42	22:12	
24958	"							23 18	23 48	
	"						10.0	23 49	00 17	
	"							00:17	00 17	
	"						10.0	00 47	01:19	
	"							01:20	01:45	
	"							01:48	02:19	
24989	"							02:21	02:47	
	"							02 48	03 16	
	Focus Test						.008	10.5		

Home Temp. 43°F

ocus. 12.95

Home Temp.

Transparency Conditions Fine

218

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0 ^h 59 E	75° 25'	0	8-1	K1+G6	2+3+3	set -1. Ms VW prog. lens. 8 9199 9224	
0 ^h 30 E	"	0+1			3+3+3	+2 224-249	
0 ^h 01 W	"	0-1			3+3+3	+4 249-74	
0 ^h 35 W		0			3+3+3	+6 ← reversed telescope 274-299	
1 ^h 24 W	+75° 26'	0-1			3+3+3	+8 312-337	
1 ^h 55 W					3+3+3	+10 {all trouble with this plate which was it 6.4 which was it 5	345-370
2 ^h 35 W					3+3+3	set -1 9374-399	
3 ^h 14 W					3-3	+2 9400-4125	
3 ^h 21 W					3-3	4 9427-453	
4 ^h 07 W		1-2			3-3-3	6 453-479	
4 ^h 34 W		2			3-3-3	8 479-507	
5 ^h 07 W		1-2			3-3-3	10 507-532	
5 ^h 34 W		1			3-3-3	set 2 534 551	
6 ^h 00 W					3-3-3	5 560 586	
					12/5	8	
						1.3. place arc tips close together!	

Must
re-focus

OK

Date Weds / Thurs Sept 16/17 - 59 Observer La Julian Day Ms

La
- Ms

Julian Day

[illegible]

Room Temp.....

Focus.....

Room Temp..... 39°F

Transparency Conditions good

220

Hour Angle
E.S.T.

Hour Angle
End

Declination

Seeing

Ptg.
Mag.

Sp.

Comp.

REMARKS

Quality

5 4.38 B3 V 30" Last D M.P. 2"/m 1A°/sec
+59°48' 5 4.42 B9 Ia " " " " " "

58°40' (P) " 4.76 A0 Ia "

55 16 " 4.98 A1 V "

~~5.43 B7 II~~ " unable to find correct star before
~~5.81 B6 III~~ sunrise - field is necessary.

1 P.H. +0

Planned position of arc electrodes; suggestion that the dec could be off by approx 5' - La

Sept 18 $\frac{MC}{-17}$ $\frac{S}{+26.3}$ $\frac{ME}{+7.4}$ $\frac{S}{+25.7}$

221

Date Fri-Sat, Sept. 18/19 Observer Ms - Mai Julian Day 2436830
 0175 10 46.5 3514.9

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	F
24990	VW Cephei	20° 38.7	+75° 14'	12 1/2"	Baloid IIaD	.016	13.9°C	19 45	20 : 16	
	"	"	"	"	"	"	"	20 : 17	20 29	
								20 : 30	20 53	
								20 : 53	21 : 08	
							14.0	21 : 08	21 : 40	
	Foams Test					.016				
24991	VW Cephei							22 : 15	22 : 31	
								22 31	22 51	
								22 52	23 : 10	
								23 : 11	23 : 31	
								23 : 38	23 : 50	
24992								23 51	00 06	
								00 07	00 27	
								00 27 1/2	00 42 1/2	
								00 50 1/2	01 05	
								01 06	01 29	

(over)

Home Temp. 51°F

ocus. 12.90

Home Temp.

Transparency Conditions

- good 222

Bright auroral arch seen across northern sky at 21:00

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0:51 E	+75° 23' (?)	0-1	8.1	K1+G6	3-3-3	set -1 Ms VW prog. sens 8	9589 > 25
1:38 E	"	"	"	"	3-3	+2	9614 > 15
2:14 E	"	"	"	"	3-3-3	+4	9634-59-25
3:01 W	"	"	"	"	3-3-3	+6	9660-75-15
3:33 W	"	"	"	"	3-3-3	+8	9676-70-25
					16/12	+10 telescope reversed	9740-
1:25 W	"	"	"	"	3-3-3	set +2	9745-60-15
1:46 W	"	"	"	"	3-3-3	4	9762-77-15
2:03 W	"	1	"	"	3-3-3	6	9778-9803 25
2:25 W	"	"	"	"	3-3-3	8	9804-9831 27
2:45	"	"	"	"	3-3-3	10	9838-9858 20
3:01 W	"	"	"	"	3-3-3	-1	9862-82 20
	"	1	"	"	3-3-3	+2	9883-9903 20
	"	"	"	"	9	+4	9905-9925 20
	"	"	"	"	9	+6	9942-9962 20
4:24 W	"	0	"	"	7	+8	9965-9985 20

223

Date Fri Sat, Sept 18/19 Observer Ms Hai Julian Day 181

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.
24993	VW CEPH	20 38.7	+75° 14'	12.5	BAKED D100	0.01"	14.0°C	01 45	02 10
								02 11	02 26
								02 27	02 58
								02 58	03 15
								03 15	03 33
24994	VW CEPH.							03 34	03 48
								03 47	04 06
								04 06	04 21
	Focus Test					0.008			
24995	MWC 76 HD 3922	03 44.3	+63° 11'	12.5"	E10390	0.009	14.0°C	04 41	05 25

Home Temp.....

Focus.....

Home Temp. $+48^{\circ}\text{F}$

Transparency Conditions

good

229

Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
10	05	$+75^{\circ} 25'$	var. 00	8.1	G4	3-3-3	-1 Ms VW-PROG.	9985 - 0005
10			00			3-3-3	+1	0006 - 0026
2	5	53W	0-1			3-2-3	+4	0027 - 0047
2	5		0			9	+6	0048 - 0068
2	6	28W				9	+8	0069 - 0089
2	6	43W				9	-1	0091 - 0111
4						9	+2	0112 - 0132
4	7	16W				9	+4	0133 - 0153
						12/8	+7	
1	05W	$+63^{\circ} 20'$	0-1	8.1	B3e	12-2	Set 5 Be	18 counts Sens 8. 0140 - 0178
							3 P.H.	
Sept. 19		CLOUDY!!		large group		Sat. Sun Sept 19 S-Main - Sh		
		Zac		large group		Shipping closes 8pm - 104 people		
				large group		9pm 105 people most everyone saw 1192		

Date Sat/Sun Sept 19/20-59 Observer -La Julian Day 2436831
 @ 176 09 21.4 3517.0

① 176 09 21.4 3517.0

[illegible]

* see Oct 20/21

This record u.g.
and destroyed

ome Temp.....

Transparency Conditions *only rain - actually very bad*
start delayed by light cloud.
02:10 now cloud. *226*

226

04

227

Date Sept 24/25 +4/Fri Observer W. B. - H. V. Julian Day 2436836
 0 181 02 48.0 3528.0

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.
24997	^{-AICp} BD+56°2640	21 ^h 43 ^m .1	+56° 27'	12"	103aD	0016	22c	19 ^h 50 ^m	23 ^h 45 ^m
24998	HD 12302	01 55.6	59 12	"	"	.008	22.0	00 22	01 34
24999	" 28424	04 23.9	13 4.1	"	"	"	22.0	01 58	04 54
	Proxima Centauri		913			"			

ome Temp.....

San, LaTwo Fine

228

0400 Haze + cloud gradually increasing since ad. light.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
4 ^m 55 ^m W	56 42	0	9.95	Bos	1+1+1	OB progr. 203-323	fine
3 30 E	59 27	0	8.2	Bce	2-2-2	Sets Be #8 338-357	fine
6 24 W	13 47	0	8.94	K ₂ III	2-2-2	" 5 Sc GHV #9 358-419	good
					8/6	" 9	sl. to v.
						2 P.H. + 4 in DOME.	
						Hent on Mirror	
						N.B. Position of image on SLT changes too much as focus is changed !!	

Date Fri-Sat Sept 25/26

Observer Se - DH

Julian Day 2436837

Q182 01 36.0 3530.2

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P
25000	HDE 239767	21 43.1	+56 27	I-12	F10320	.016	20.2°C	20:50	01:48	1
25001	BD 48° 897	03 16.0	+49 03	I-12	F10320	.016	20.1°C	02:10	03:44	1
25002	BD 47° 842	03 23.6	+49 19	I-12	F10320	.016	20.2°C	03:56	04:50	2
	Frame Test	UTB				008				

ome Temp...+58°F

Transparency Conditions 8:30 pm Clouds clearing 230
0030 light cloud in west makes exposure fog
0109 cloud in west heavier - heavy obscuration so 25000 stopped early
0300 cloud rising in SW

[illegible]

Date _____

Sep 27-28/59

Observer

Ad - L

Julian Day 2436839

① 183 59 18.7 3534.8

Test of plate speeds: Note that 25004, 25005, same stars, same number of comets are almost equally dense. The 25004 a little weaker, maybe, but the grain much better.

Home Temp.....

Sept 27 Changed to I-25-

Jan 12 was

Sum 12.90

WCT 20.25

I-25 net

15.53

Net 23.15

Quality

[illegible]

233

Date Thurs-Fri Oct 1/2 1959 Observer MS - L (BK) Julian Day 2436843.
 0 187 55 11.0 3543.5

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P
25008	VW Cephei	20 ^h 38.7	+75° 14'	I-25	Baked IIa 0	.016	18.4	19:37	20:31	2
	"	"	"	"	"	"	"	20:54	21:44	34
25009	MWC 366 H.D. 203374	21 16.7	+61 25	"	103a-0	.008		22:16	22:31	57
	"	"	"	"	103a-0	.016	"	22:32	23:06	10W
25010	o Cass	0 ^h 39.2	+47° 44'	I-25	103a-0	.008	"	23:22	23:25	53E
	"	"	"	"	"	"	"	23:25	23:30	48E
	"	"	"	"	"	"	"	23:30	23:43	34E
25011	VW Cep	20 38.7	+75 14	"	IIa 0	.016	18.5	00:05	01 05	50W
	"	"	"	"	"	"	"	01 05	02 05	50W
25012F	MWC 82 H.D. 26420 Fornu 5m	04 5.7	41 52	"	103A0	"	18.5	02 34		
						OTB				

bme Temp.....

$$\begin{array}{r} 15.56 \\ - .09 \\ \hline 15.47 \end{array}$$

Transparency Conditions *Fair*

234

[illegible]

Date Oct 7-8-59 Wed- Thurs. ^{Hd} Observer ^{4th years} Students - Julian Day 2436849.
 © 193 50 00.3 3554.5

..... Julian Day 2436849.
 © 193 50 00.3 3554.5

[illegible]

Ime Temp.....

236

39

Date. Fri Sat Oct 9-10

Observer

Se-L

Julian Day 2436851

© 195 48 31.1 3558.0

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P
25013	HD 219113	23 ^h 08.3	+02° 08'	I-25	E103.0	set .016	+16.0C	22 ^h 32	01 12	55
25014	" 9352-3	01 27.0	57 49	"	"	.008	17.3	01 40	01 53	22
	"	"	"	"	"			01 53	02 34	
	"	"	"	"	"			02 34	03 38	01W
25015	MWC93 " 31293	04 49.4	30 24	"	"	.016	17.3	03 46	04 20	22V
25016	MWC139 " 44637	06 17.7	15 09	"	"	"	17.3	04 24	05 20	05A
	Focus Test			O TB						

Time Temp. $+ 47^{\circ}F$

200

Ring Nebula with

238

V.B + Lu showed about 90 visitors the p. between
19:00-20:00 EST; Clouded in so second
group were shown slides & a lecture by
V.B. about 200 visitors altogether

Date Sun - Mon Oct 11/12 Observer M.S. Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P	Angle Incl.
25017	H.D. 2142623	02	13.3	+22 43	I-25	103a-0	0.016	10.6	02.24		
<u>Wed Oct 13</u>											
25017 F ₁	Focus Test	OTB		I-25	103a-0	0.008	7.5°C	18:35	18:40		
"	"	"	"	"	"	"	"				
"	"	"	"	"	"	"	"				
25017 F ₂	"	"	"	I-25	103a-0	0.008	7.5°C	18:40	18:50		
"	"	"	"	"	"	"	"				
25017 F ₃	"	"	"	I-25	103a-0	0.008	7.5°C	19:00	19:10		
"	"	"	"	"	"	"	"				
25017 F ₄	"	"	"	I-25	103a-0	0.008	7.5°C	19:15	19:25		4
"	"	"	"	"	"	"	"				
25017 F ₅	"	"	"	I-25	103a-0	0.008	7.5°C	19:25	19:30		
"	"	"	"	"	"	"	"				

Time Temp. 41

Focus 15.27

Time Temp.

Transparency Conditions

240
Joes Oct 13
20 students from III 11 & P
Oct 5 & 6 - MR

Time S.T.	Sur Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
			0	64	A5-G		set 5 Hynick's computer - seen 6 13.82 Clouds! Q lost night not even 1 count.	
						12/9	set 1 Focus set at 15.31 La-	
						"	set 5 " " " 15.33	
						"	set 8 " " " 15.35	
						12/8	set 1 Focus set at 15.33 C.R.P.	
						"	set 5 Focus set at 15.31	
						"	set 8 Focus set at 15.29	
						12/8	set 1.25 " " " 15.36 J.H.S.	
						3	" " " 15.34	
						8	" " " 15.32	
						12/8	set 1 Focus set at 15.30 P.g.R.C.	
							set 5 Focus set at 15.32	
							set 8 Focus set at 15.34	
						12/10	set 1 " " " 15.37 J.B.	
						12/10	set 5 " " " 15.35	
						12/8	set 8 " " " 15.33	

3 RA. in dome

Date Wed Oct 14 1959 Observer 4th year Students Julian Day 175

4th year Students

ST 5
PG RC

[illegible]

Dine Temp.....

Transparency Conditions

292

ing Time E.S.T.	for Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
2.35						12/10	AT I Focus 15.36 : JHS	
						5	" 15.34	
						10	" 15.32	
0.50						12/10	set 1 Focus set at 15.30 PGRC	
							set 5 Focus set at 15.32	
							set 8 Focus set at 15.34	
							Sat Oct 17	
							Se, McC showed 180 visitors	
							61 Egg & film on the moon.	
							Clouded in on both groups	
							<u>1 PH in Dome.</u>	

Date Sat/Sun Oct-17/18, 1959 Observer ^{Se}McC - Mc Julian Day 2436859
 @ 203 43 47.4 3573.4

[illegible]

Time Temp. 40°.....

Note: Spotter working erratically.

Transparency Conditions Clear about 1000. Seeing very bad 249
1100 - clouds in NW again 1130 - clear
Transparency poor

Star	Right Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality	
00:48W	+51 52'12	000-00	6.8	F8A2	4-4-4	Hgnek sets	Sens 8	1385 1412	good
						Clouds			
						2 PH-0 in dome			

Date Tues-Wed 15-19 Oct 20/21 Observer MR - H✓ Julian Day 2436862
 ☉ 206 42 34.2 3580.0

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp. 5-3	Starting Time E.S.T.	Ending Time E.S.T.
935-103*	HD 199478	20 54.4	+47 16	48x4		set 20	6/4	21:04	
936-103	γ Cas	21 44.3	+60 57	48x2		set 20	5/6	21:55	
937-103	ψ^2 Aqr	23 15.8	-9 24	48x2		"	5/5	22:16	
938-103	w^2 Aqr	23 40.6	-14 46	48x2		"	"	22:31	
939-103	HD 1976	00 22.1	+51 48	48x2		"	5/7	22:53	
940-103	δ Cas	00 54.3	+60 30	48x2		"	4/6	23:25	
941-103	ϵ Cas	01 51.5	+63 28	48x2			5/3	23:42	
25019	HD 19485	03 02.8	+25 13	I-25	E 103a0	.008	5.0	0039	0519
	Focus 9		0713						

See right Sep 15/20
for duplicate 935-103

See right Sep 15/20
for duplicate 935-103

Ime Temp.....+3.1

Transparency Conditions *Excellent*

246

HSH, RSN, Ms with Ast Ia ~70 students -
showed M92

Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
+47° 16'	6"	5.76	B8 Ia	30"	List D, 4250-4540 1 A/sec, 2"/min also list - at slit 200	
-		4.66	A2 Ia	"	" " " "	
-9 46		4.65	B5 V	"	" " "	
-14 48		4.62	B9 V	"	" " "	
+51 45		5.2	B5 Te	"	List E	
+60 37		2.0	B0 Te	"	" " "	
+63 25		3.18	B3 IV pe	"	List A, E	
519 51 W +25 26	00	8.7	G0	4-4-4	Set 2 Spect. Bin. #9 1416- 1465 4950 to	good
				15/10	" 8	ex. sl. to v.
					1 P. H. + 0	

247

+ students

Date Wed - Thurs 1959 Oct 21/22

Observer H. J. M. S.

Julian Day 243686.3

© 207 42 14.2 3582.2

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.
25020	VW Cephei	20 ^h 38.7	+75° 14'	I-25"	Balched IIa-0	.016	5.5°C	18:22	19:28
25021	HD 196853-4	20 ^h 36.9 ^{34.3}	+23° 31' ¹⁹	I-25"	E10320	.008	5.5°C	19:52	20:40
"	"	"	"	"	"	.008	5.5°C	20:41	21:05
25022	HD 196095-4	20 ^h 32.3 ^{30.0}	+35° 06' ^{34.54}	I-25"	IIa-0	.008	5.5°C	21:16	21:42
"	"	"	"	"	"	.008	5.5	21:43	21:56
25023	VW Cephei	20 38.7	+75 14	I-25	Balched IIa-0	.016	5.5	22:18	23:03
						ML	SC	ME	
						Nov. 9	-17.2	-26.6	-0.3
						ML	SC	ME	
						Feb. 11	-9	-28.8	-1.9

Time Temp. 41°F

Focus 15.29

Time Temp. 38

Transparency Conditions Deteriorating after ~ 21:30 298

Time	Sur Angle	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
28	30° W		0	8-1	K1+G6	4-4-4	set-1 ^{Ms} VW Campbell } guiding Same 8 1467 750	fine
40	44 W	+23° 32'	0	6-1	K0 A3	4-4-4	set-2 " " Same 6 1523	fine
05	209 W	+23° 31'	0	6-1	K0 A3	4-4-4	set 8 " " Same 6 1532	fine
42	52 W	+35° 07'	0	4-85	K5 A3	4-4-4	set 1 Parlin } guiding same 5 1537	fine
56	05 W	25° 06'	0	4-85	K5 A3	4-4-4	set 8 " " same 5 1549	fine
3:05	1:07 W	75° 31'	0-1	8-1	K1+G6	4-4-4	set 0 ^{Ms} VW THROUGH CLOUD same 8 1550	weak

Clouds closed up 23:30

1 P.H. + 0 in dome

Set 28	MC	SC	ME	S
	-20	-9.7	-3.0	-12.7

Set 30	MC	SC	ME	S
	-19	-12.1	-5.0	-13.1

150 minutes

Sat 6-1 31" cloud

Nov. 3	MC	SC	ME	S
	-17	-16.5	-5.9	-15.3
Nov. 4	MC	SC	ME	S
	-15	-19.4	-1.0	-15.7
Nov. 6	MC	SC	ME	S
	-15	-22.4	-4.1	-15.4

M.R. + L.A. placed 100 micron Ring Nebula + bya during 8-9 session - Cloud for 9-10 after demonstration of 14" mirror on Solar System showed

WHAT KIND OF ENGLISH IS THIS? LAWSOME?

Date Sun-Mon Nov 15-16

Observer

5 -

Julian Day 2436888

© 232 44 37.0

3627.1

[illegible]

Time Temp. $+31^{\circ}$ F

Focus $15-26$

Time Temp.

Transparency Conditions

Clear

10250

Hour Angle E.S.T.	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
29 ^h W	+30 49	00	7.44	G2 V	4-4-4	sets Lc HV Mk 8 200s Ex 1664-	(Present at good)
	+10 24	0	7.24	F5 V	4-	sets Lc HV Mk 8 500s 1720-	two week
						CLOUDS.	
						1 PH +1 in Dec.	
						Sprtfu out of commission	

251

Date Tues-Wed 1959 Nov 17/18 Observer MR - L Julian Day 2436890.

0 234 45 33.0 363a5

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	F
942-104		h m				chd		19:50		
942-104	53 Cas	02 00.0	64° 12'	H8 x 2	3 1/2 in	1020	6/3	20:58		
943-104	HD 12953	02 05.8	58 11	H8 x 2	3 "	"	6/4	21:50		
944-104	HD 13929 8 Per	02 15.1	57 43	H8 x 2	2 "	"	6/6	22:45.7		
945-104	HR 1172	03 46.0	23 18	H8 x 2	3 "	"	6/3	23:33		
25026	HD 34291	05 10.8	37 35	I-25 E-103A	016	-7.4	00 46	01 46		
25027	{ " 45314	06 21.6	14 57	"	"	"	-7.4	02 56	03 48	
	Focus Feet					OTB				

Home Temp. 116°F

Focus 15.13

Home Temp. 190°F

Transparency Conditions

252

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
						hazy clouds.	
	+64° 12'	5.62	5.62	B8 Ib	30"	Lit-D 4250-4550 1A/sec 2"/min	
	+58 10		5.90	A1 Ia	"	" " " (2" power feed)	
	+57 43		6.09	B3 III	"	" " " (i, clocks are 21:05)	
	+23 17		5.44	B8 V	"	" " " (very)	
						- RA fast motion is very slow	
						Exposure meter counter failed	
						- flashlight with red d	
						- Die clamp stuck	
0 06E	37 37	0-1	7.4	Bone	2-2-2	Lit 5 Be Prog, 1752-?	
0 51W	14 54	0-1	7.1	B2mc	2-2-2	" " "	
					8-6		
	MC	SC	ME	S			
av. 18	-3.0	-38.6		-36.4			
						Clouds from West	
						3 P.H.s loaded + 8 in dome	
						Trouble with R.A. guiding and setting	

Date Thurs. Nov. 19-20/59 Observer L- Julian Day 2436892

Julian Day 2436892
 0236 46 35.7 3633.9

[illegible]

Home Temp. 28°F

Focus 15.21

Home Temp.

Transparency Conditions

Fair

256

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
49 2 55 W	36 50	0	7.7	B3e	2-2-2	lit 5. Be prog, ser8(1981-2031)	lit. Fine
33 10 W	62 51	0-1	7.5	B. IV	2-2-2	" 5 OB prog, "(2034-2084)	fine
34 07 W	55 18	0-1	7.6	B1e	2-2-2	" 5 Be prog, "(2088-2038)	fine
						Clouds sky thickening	
						Closed at 10.30	✓
						4 P.H. & loaded	
						Plates needed.	
						Nov 20	
						MC -1.0	
						SC -41.1	
						ME -1.5	
						S -37.6	

Date Sun Nov 22-23/59 Observer Wd Julian Day 2436895
 © 239 48 22.5 3639.1

[illegible]

bme Temp.....

Transparency Conditions

Transparency Conditions Clouds unbrk. still heavy 258
JH

[illegible]

Date SAT/SUN Nov 20/29 Observer W.B. - La Julian Day 2436.901
 @ 245 5-2 41.5 3648.5

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.
25032	H.D. 219113	23 ^m 08.3	+02° 08'	25"	10360	.016	0°	18 ^h 14 ^m	20 ^h 45 ^m
25033	19485	3 ^m 02.8	+25° 13'	"	"	"	0°	21 ^h 05 ^m	01 29
25034	35600	5 ^h 20.8	+30° 07'	"	"	"	0°	01 56^m	
"	"	"	"	"	"	"	"	02 27	02 29
25035 {	4' Ann	6 ^h 11.2	+49° 20'	"	"	"	0°	03 07	03 19
"	"	"	"	"	"	"	0°	03 19	03 27
25036	B CMC	8 ^h 11.1	+9° 30'	"	"	0.008	0°	03 36	03 39
								03 39	03 42
								03 42	04 00
25037	H.D. 91948	10 ^h 31.9	+60° 39'	"	"	0.08	0.0°C	04 09	05 31
25038	(H.D. E2969)	9 ^h 30.5	+60° 39'	"	"	"	0.0°C	05 30	06 35
	J J O S R	8 6							

Time Temp. 20.1

Focus 1531-9-1528

Time Temp.

Transparency Conditions

fine

5 m 260

4 1/2

13

Sur Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
1 ^h 50 ^m W	42° 27'	0	8.7	95	2+2-2	= SZ Psc 2204 - 22.54	good
2 33 ^m W	125° 54'	0	8.7	50	2+2+2	S. B. 2254 - 2304 sens 8	good
	20° 05'	0	5.7	69 Ib	2	(WRONG STAR - at 802) MK Std. 2317 - sens 8	
1 ^h 47 ^m W	30° 10'	0	5.7	69 Ib	2-2-	set 5 MK Std. 2328 - 2338 sens 8	fine
	+49° 17'	0-1	5.1	M0.7ab	2-2-2	set 2 MK Std. 2340 - 2403 sens 7	bad
1 16 W	"	"	"	"	0	set 5 2403 - 2418 "	good
			3.76	K4 III	0	set 2 MK Std. 3 counts along	Bad from
					0	set 5 1 1/2 counts	Taper
					12	set 9 6 counts "	glare?
1 5 ^m E + 60° 18'	0-1	7.37	F9	11-414	set 5	Spec Binox 2437 - 2487 sens 8	fine
1 17 ^m W + 60° 28'	0-1	7.34	G5	11-412	set 5	KAPTEYN 2492 - ? sens 8	fine
closed and shot						opened slit to 0.016 to get	
the counter after						4 positions before exposure	
stocks eg. 1/2 sec						counted in 1/2 sec	
a certain number for						3 P.H. loaded	
3 or 4 counts							

Date Sun-Mon Nov-29/30 Observer MS

..Julian Day 243 6902.

② 246 53 30.0 3649.7

[illegible]

Ime Temp. 21

Transparency Conditions *Good - to live with*

262

ing Time EST.	Rur Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
23	2:01W	+75 28	0	8.1	K146	4-4-4	Set - 1 .. M ₃ W prog. - sense. 8	2563 40 2603
10	147W	" 3	0	"	"	4-4-4	set 4	2608 45 2653
14	21W	" 10	0	"	"	4-4-4	set 7	2655 34 89
							Clouds and snow	
							3 P.H. loaded	
							Integrator counter sticks occasionally.	
							$\begin{array}{r} \text{700.} \\ \text{30} \end{array}$	
							$\begin{array}{r} \text{MC} \\ \text{+ 12} \end{array} \quad \begin{array}{r} \text{SC} \\ \text{- 57.2} \end{array} \quad \begin{array}{r} \text{ME} \\ \text{- 4.9} \end{array} \quad \begin{array}{r} \text{S} \\ \text{- 44.1} \end{array}$	

Dne Temp. 39°F
 Pous 15-265
 Dne Temp. 33

Transparency Conditions Good (Br $\geq 60^\circ$!!)

269

537

ing Time E.S.T.	Star Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
55	28W	75°27'	0	8.1	K ₁ +G6	4-4-4	set-1 M ₅ WW program	Scor. 8 2905 > 50 2955
57	16W		0			4-4-4	set 4	? 2956 50 2826
58	58W		0-1			4-4-4	set 7	2807 2857 50
58	38W		0-1			4-4-4	set 10	2858 2905
36	29W		0			4-4	set-1	2909 40 49
21	14W		0			4-4-4	set 4	Counting slowly - in eclipse? 2950 2980 > 30
08	22W	+22.58	0	6.4	A5G	4-4-4	set 5 Hyack computer	ans 7 2985 20 3005
40	32W	40 52	0-1	8.1	B3e	4-4-4	" 2 Se shell	" 8 3007 3041
						15/10	" 8 1PH + 2 boxes?	
							Trouble with R.A. S. tt. m. to	
							Cl. t. h. - 2' m. - 2' 11	
							Dec	
							4	MC SC ME S +16 -1" 1.6 -5 -16.3
							Dec	
							7	MC SC ME S +19 -1" 6.2 -6.5 -49.5

Date Tues-Wed Dec 8/9 1959 Observer ML Julian Day 173.5

[illegible]

Time Temp.....

266

Sun-Mon Dec 13/14. Fairly
clear but rails ice up
afternoon. Snow won't
open. 9464.

Date... 170/tn Dec 14/15

Observer

VEL

..Julian Day

[illegible]

Home Temp.....

Transparency Conditions Current

268

[illegible]

Date Thur-Fri Dec 17-18 1959 Observer DH Julian Day 2436920.

.....Julian Day $2436920.$
 $\odot 265 \ 10 \ 31.9 \quad 3663.7$

[illegible]

ome Temp. $37^{\circ}F$
 ocus. 1538 - 0.09 : 15.29
 ome Temp.

Transparency Conditions *Partly fair but going to pour*
Some cloud

270

ing Time E.S.T.	our Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
07	$2^h 35^m$	+62 49	0-00	7.5(?)	BOIV	2-4	HI bin on OB Set 5 Cloud and South Pier limit this exposure HA = $-2^h 35^m$ W is <u>almost</u> the west limit for this star 2015 - cloud covers most of sky	Sens 8 3050 3066 ¹⁶ <i>Too weak</i>
				Set 9		10-7		
4 P.H. + 1 DoX								
						rec. 18	$\frac{MC}{+29}$ $\frac{SC}{-1^m 17.7}$ $\frac{ME}{-4}$ $\frac{S}{-1^m 16.3}$	

Date ^{Sat-Sun} ~~Sun~~ Dec X-19-2059 Observer ~~La~~ Julian Day 2436922.
0267 12 40.1 3665.3

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.
25045	3 gem	6 ^h 03.7 ^m	+25° 08'	D-25	103a.0	016	-18°	01:00	01:50
25046	6 gem	6 ^h 06.3 ^m	+22° 56'	"	"	"	-18°	01:55	04:32
	7 7 0 1 B					008			

Time Temp. 180F

Focus 15.20

Time Temp.

Transparency Conditions fair

272

Sur Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
50 1 ^m 16W + 23° 07'	0	5.76	B25 4-2-2	set 2	MK 5 do	3069 3109	fine
52 3 ² 07W + 22° 54'	0	6.30	MJ 2-2-2	set 2	"	3109 3140	weak
				10/7	set 9	clouded out.	
						one set of dome lights not working <u>he</u>	

Date no/n Dec 21/22 1959 Observer W.B. - H.S. Julian Day 2436924.
 0269 14 51.4 3666.8

[illegible]

ocus.....013

ome Temp. + 5° F.

274

[illegible]

275

Date Tues Wed 1959 Dec 22/23 Observer MR. La Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.
949-106	53 Cas	02 00.0	+64 12	H8 X 2		020	6/3	19:16	
950-106	HD 12953	02 05.8	+58 11	"	"	"	6/4	19:39	
951-106	HD 13929 8 Per	02 15.1	+57 43	"	"	"	6/6	20:07	
952-106	HD 21291	03 25.8	+59 49	"	"	"	5/5	20:33	
953-106	h 21389	03 26.7	+58 45	"	"	"	5/6	20:54	
954-106	HR 1046	03 27.0	+55 19	"	"	"	"	21:58	
955-106	E Per A	03 55.2	+39 54	"	"	"	4/6	22:16	
956-106	21 Jan	03 43.6	+24 24	"	"	"	5/7	22:41	
957-106	27 Jan	03 46.8	+23 56	"	"	"	5/3	22:57	
958-106	HR 1183	03 47.4	+23 35	"	"	"	6/3	23:25	
959-106	20 Jan	03 43.5	+24 14	"	"	"	5/4	23:51	
960-106	23 Jan	03 44.0	+23 49	"	"	"	5/5	00:55	
961-106	NGC 2392	07 26.8	+21 25	5050 A	0 - 41160A'	320	6/5	01:35	
962-106	HR 3314	08 23.7	+03 47	H8 X 2		020	7/4	02:40	
963-106	η Hya	08 41.1	+03 32	H8 X 2		"	5-5	03:38	
964-106	η Leo	10 05.2	+16 58	H8 X 2		"	1/3	04:00	

ome Temp. $+90^{\circ}\text{F}$

ocus.....

ome Temp.....

Transparency Conditions *some wisps in W horiz at 776*
summit - seem to have gone completely

ing Time
E.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
			5.62	B8 Ib	30"	List D	4250-4560 1A/5 1/2
+58° 13'			5.90	A1 Ia	"	"	Had to renew Bionn dry cell
+57 47			6.09	B3 III	"	"	& chest & adjust B+ volt
+59 44			4.42	B9 Ia	"	" 2 times	
+58 40			4.76	A0 Ia	"	" 2 times	
+55 16			4.58	A1 V	"	" 2 times	
+39 54			2.71	B0.5 V	"	List A 2 times	
+24 25			5.85	B8 V	"	List D	
+23 55			3.80	B8 III	"	" 2 times	Dark nebula - sluggish
+23 35			6.16	B9 V	"	" Suff. 2 times	Before - slightly better
+24 14			3.86	B7 IV	"	" 2 times	
+23 48'			4.16	B6 IV	"	" "	
			—	—		Phantom Nebula	41060-5060 m-615
-03° 16'			3.95	A0 V		List D 2 times (unp. field)	4260-4440 m-617
+08° 52'			3.12	B3 Z		" " "	
+16° 56'			3.6	A0 Ib		" " "	

Continued
Date *Tues - Wed 59 Dec 22/23* Observer *- La* Julian Day

[illegible]

Home Temp. 60° F.

Transparency Conditions

very good.

278

our Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
-0° 27'	3.6	A ₀ I _b	30"	MR	14°/sec	2" / min	Last Day
+9° 29'	3.11	R ₁ I _b	"	"	"	"	" 2- turn
+15° 37'	3.19	A ₂ V	"	"	"	"	" "
+14° 46'	2.21	A ₃ I	"	"	"	"	" "
+56° 35'	2.32	R ₁ E	"	"	"	"	" "
+53° 55'	2.43	A ₂ V	"	"	"	"	" "
3 turns from April at 7.10							
Dec 23 MC SC ME S +37 -1^m22.8 0.0 -1^m20.6 Jan. 30 MC SC ME S +49 -1^m33.5 -6 -1^m30.7							
A very severe ice storm on Dec. 26-28 (many trees broken) Shutters not cleared until Jan 1. Night of Dec 31-Jan 1 was clear.							

Date. Jan 1-2 Fri-Sat

Observer...DH

..Julian Day

[illegible]

Time Temp. 129°F

Ecus. 15.30 - 009 - 1521

Time Temp.

Transparency Conditions

280

ag Time
S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
		0	8.7	4		Spec Bin. Set 5 - Sing 3244 + 2800 1715 Cloud - Exposure Stopped plate destroyed 2:00 thin cloud from South East 3:00 thick cloud " " " (La-mee)	
						1 PH + 10(?)	
						Jan. 2 $\frac{MC}{-5}$ $\frac{SC}{+12}$ $\frac{ME}{-18}$ $\frac{S}{-7}$	
						Note Clocks were wrong - Sidereal Clock reset approximately, standard time clock not changed	

Eme Temp.....

Transparency Conditions

282

Clouds after opening, waited

ing Time E.S.T.	Star Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
027	358W	25 25	○	8.7	Go	4-4-4	Set 5 Spect Bin #8 3308-3326 weak 0010 Clouds 0025 Star Gone	
029	410W	+29 21	○	7.7	G8V	4-4-4	" 2 Se-HV #8 3331-3342 Haze + Cloud throughout exposure 15/10 " 8 1 P.H + 8	Too weak
							$\begin{array}{r} \text{New } \frac{MC}{-2} \quad \frac{SC}{-4.9} \quad \frac{MB}{-1.0} \quad \frac{S}{-2.6} \end{array}$	

Julian Day 2436940.
 0285 41 48.8 3669.0

[illegible]

Dne Temp.....

Transparency Conditions.....

289

Rus. 15.24 - 0.29 → 15.15

Dne Temp.....

ding Time R.S.T.	er Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
033	105W	H 6 25	0-1	6.5	FO	4-4-4	Set 5 High Comp. Sens 7 3356-3372	fine
158	143W	3 7 36	0-1	6.6	VSA	4-4-4	" 2 " " " 3376-3392	fine
						15/10	" 8 Clouds.	OK
							3 P.H + 4	
							Jan 8 Jan 11 Jan 13 Jan 15 Jan 18 Jan 20	
							MC SC MTW STW SW ME S -3 -6.6 +5.1 +27.3 +10.9 -2.9 -3.3 MC SC STPD STPD STPD ME S -5 -10.2 -1.0 -7.0 MC SC MTW STW SW ME S +8 -12.0 +25 +21.7 -2.5 0.0 -9.8 MC SC MTW STW SW ME S +11 -14.1 -11.9 MC SC ME S +14 -16.4 0.0 -16.2 MC SC ME S +17 +1.1 -1 -6.0	

Date Wed-Thurs. Jan 1960 Observer MS Julian Day

[illegible]

Eme Temp. 23 F.

cus $15.28 - .09 = 15.19$

Time Temp.....

Transparency Conditions

Good

286

Set on S Class to check clock and focus.

Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality	
8.06 62V set 8 ³⁴²³₂₄ Clouded out immediately after beginning - plate thrown away 2 P.H. + 4							
Jan 22	MC	SC	MTW	STW	SW	ME	S
	+19	0.0	+22	+13.1	+1.8	-15	-8.3
" 25	MC	SC	ME	S			
	+23	-2.7	-1.3	-10.6			
" 27	MC	SC	ME	S			
	+25	-3.4	-2.9	-13.2			
" 28	MC	SC	ME	S			
	+29	-4.0	-3.0	-15.4			
Feb. 1	MC	SC	ME	S			
	+33	-4.8	+2.0	-18.4			

Date 170/Tu Feb ^{1/2} 2/2 1960 Observer SvdB-Hr Julian Day 2436966.
 @ 312 09 19.0 3653.6

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.
25053	48° 907	3 ^h 18 0	+46° 55'	25"	10340	.008	-1	20 55 CST	00 25
25054	HD 81192	09 19.1	+20 13	"	"	"	-2.5	00 44	03 38
25055	" 12 25 63	13 57.6	+10 11	"	"	"	-2.6	04 10	06 32
	71022 at		07 B						

ome Temp. $+5^{\circ}\text{F}$

288

[illegible]

289

Date Tues-Wed Feb 2/3 1960 Observer MR - H_v Julian Day 2436967.

0 313 10 12.6 3652.2

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.
971-107	20 Jan	03 43.5	+24 14	H _v 2		020	5/4	19:19	
972-107	23 Jan	03 44.0	+23 49	"		"	5/4	19:36	
973-107	HR 1183	03 47.4	+23 35	"		"	6/4	20:04	
974-107	20 Jan	03 43.5	+24 14	"		"	5/5	20:34	
975-107	E Per A	03 55.6	+39 54	"		"	5/2	20:52	
976-107	+ C Ma	06 43.4	-16 40	"		"	3/4	21:33	
977-107	X ² Ori	06 01.6	+20 08	"		"	6/2	22:35	
978-107	unch. 900	06 23.8	+17 50			20440	6/7	23:30	
25056	HD 65583	07 54.3	+29 31	I-25	E _{103a} -0	008	-9.5	0030	0410
25057	" 104381	11.56.1	+12 56	"	"	"	-9.7	04 47	06 41
	25057	11.56.1	+12 56	"	"	"	-9.7	04 47	06 41

290

Home Temp. 12°F

ocus. 15.10

Home Temp.

Transparency Conditions

Both bulbs in beam burned out - put in bulb from spotter room & connected

our Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
	+24 15		3.86	B7III	30"	4250-4320 (see below) Lot D	
	+23 48		4.16	B6IV	"	" 2 times	"
	+23 37		6.16	B9V	"	" " "	"
	+24 15		3.86	B7III	"	" *again	"
	+39 51		2.96	B0.5V	"	"	"
	-16 39		-1.41	A1V	"	" 4 times	"
	+20 06		4.71	B2Ia	"	" 2 "	"
	+17 50					4800-5100	
410	44SW	29 19	0	7.70	G8V	4-4-4 Set 2 Se-HV #8 ³⁴⁶⁶ 3495	Group - I undid the spring in the box again
641	31SW	+12 37	0	6.93	A0	4-4-4 " 2 KA-8x8 #7 3497-	
					15/10	" 8	
						I.P.H. loaded-	
						P.L.T. loaded-	
						Feb 3 $\frac{MC}{+35}$ $\frac{SC}{-6.0}$ $\frac{ME}{-2.9}$ $\frac{S}{-21.8}$	

Date Wed. Feb 3-4/60 Observer L-Hv Julian Day 2436968
0314 11 04.8 3650.8

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	Exposure Time
25058	B0 50° 738	03 13.1	50.37	I-25	E 103A	5-ct 008	-4.0	18 26	19 30	3 04
25059	HD 26420	04 05.7	41 52	"	"	"	-4.0	19 38	21 48	4 10
25060	" 65079	07 51.9	03 14	"	"	"	-4.0	22 10	00 12	1 53
25061	" 88725	10 18.9	03 39	"	"	"	-3.9	00 21	05 13	6 02
	Frame Test		0713							

Room Temp.

Good

29.2

	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
30	2 48W	50 49	0-1	7.0	B _g	4-4-4	L Pers. - Sns 8, 3518--68	Fine
48	2 14W	42 00	0-1	7.6	B _{3ne}	4-4-4	Be Prog " 74-624	Fine
12	2 153W	03 05	1	7.7	B _{3ne}	4-4-0	Be Prog " 25-78	Fine
13	3 38W	+03 21	0-1	8.36	G.V	4-4-4 set 2 Sc-Hv J	" 3681-702	weak
						15/10 " 8		
						I.P.H + 8		

Date Thurs Feb 4/5

Observer..Ms

Julian Day 2436969

0 315 11 55.6 3649.4

[illegible]

ome Temp. 28°F
 ocus $15:33 - .09 = 15:24$
 ome Temp. 28

Transparency Conditions *good! cloud bank in south.*

294

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
48 2:09E	$+21^{\circ}06'$	0	3.0	B3e	12	set 2 Se shell sens 4 $1\frac{1}{2}$ count	
52 2:05E		0	3.0	"	12	set 5	3
56 2:01E		0	3.0	"	12	set 9	6 fine
47 2:15E	$+40^{\circ}43'$	0	6.1	B4me	4-4-4	set 3 Be sens 6 $\frac{3754}{60}$	fine
00 2:23E	$-16^{\circ}27'$	00	5.0	Aeg	4-4-4	set 5 Se shell ^{through} clouds sens 7 $\frac{3764}{3778}$	fine
					15/10	set 9	

Clouded out

2 P.H. + 4

Feb. 5.	$\frac{MC}{+38}$	$\frac{SC}{-6.9}$	$\frac{ME}{-4.7}$	$\frac{S}{-24.3}$
Feb. 10	$\frac{MC}{+45}$	$\frac{SC}{-9.8}$	$\frac{ME}{-3}$	$\frac{S}{-33.6}$
Feb. 12	$\frac{MC}{+47}$	$\frac{SC}{-11.4}$	$\frac{ME}{-1.9}$	$\frac{S}{-37.4}$
Feb. 15	$\frac{MC}{+53}$	$\frac{SC}{-14.6}$	$\frac{ME}{-1.9}$	$\frac{S}{-42.5}$

Date..... Fri/Sat Feb 12/13..... Observer..... vch S..... Julian Day.....

[illegible]

Home Temp.....

Transparency Conditions

~~Fwd~~
Closed on 7:30pm

296

[illegible]

Date Sat-Sun Feb. 20/21Observer. Ms - McC

Julian Day 2436985

③ 331 22 16.1 36 27.6

[illegible]

bme Temp. + 2.2.....

2300 - clouds - waited

298

[illegible]

Ime Temp. 26°F

Focus 15.22

Ime Temp. 22°F

Transparency Conditions Haye

300

Sur Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
------------------	-------------	--------	--------------	-----	-------	---------	---------

40	136W	05 08	0	6.8	Bae	444	Be Prog. Lens. 8 3913 3953	425
----	------	-------	---	-----	-----	-----	-------------------------------	----------------

sky slowly thickening

2 P.A. + 12

Feb. 22 $\frac{MC}{+1^m 2^s}$ $\frac{SC}{-18.8}$ $\frac{ME}{0.0}$ $\frac{S}{-54.6}$

Date Mon Feb 22-23/60 Observer L- Julian Day 171.5

[illegible]

Dme Temp. 22°FFus. 15.21

Dme Temp.

Transparency Conditions

haze

302

ing Time
E.S.T.Air Angle
End

Declination

Seeing

Ptg.
Mag.

Sp.

Comp.

REMARKS

Quality

~~49 05 0 82 A. 2~~

L. Pers.

Sens 3959
3971

11 counts in $1\frac{1}{2}$ hrs no good
 poor seeing, haze, light
 snow strong wind phoscel

1 ph +12

Still haze + strong wind at midnight

303

Date Tues-Wed 1860 Feb 23/24 Observer MR-H Julian Day 2436988

0 334 23 34.7 3623.4

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	Angle End
979-108	Orion nebula	5 ^h 33.4 ^m	-5 ^s 24'			var.	6/3-4/5	19:40		
980-108	HR 3314	8 23.7	-3 07	HRx2		set 20	5/5	22:39		
25069	HD 90512	10 21.9	+11 49	I-25	E103a	0.008	-5.6	00 49	0431	
	Flowers	7 out	07B				+0.5			
						222				

Time Temp.....

Transparency Conditions

hazy

304

Focus.....15.16

Time Temp.....+14

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
				var		1A/mc ; various charts on the 4 planets	
			3.55	10V	30"	4250-4520. Lit D	
401W	11 33	00-0	7.38	G5	4-4-4	Set 2 KA 8X8 #7	
					15/10	" 8	
						IP, H, + 11	
						H on M.	
						$\begin{array}{r} \frac{MC}{+1M55} \quad \frac{SC}{-19.7} \quad \frac{ME}{-4} \quad \frac{S}{-56.5} \\ \hline 7.624 \end{array}$	

*W. f. passing haze ±20%
3981
399.6 Translud. No good
Focus c to red (lot)*

Time Temp.....

Good

306

Counter stopped counting

[illegible]

Date Mon Feb 29 Mar 1/60 Observer L- Julian Day

[illegible]

Home Temp... +18°F

ocus... 15.20

Home Temp.....

Transparency Conditions

308

ing Time
E.S.T.

Hour Angle
End

Declination

Seeing

Ptg.
Mag.

Sp.

Comp.

REMARKS

Quality

~~11 17 0 5.8 Bane 4.4~~

~~Be Prog.
Ways Clouds~~

~~8-4134~~

4 PHs loaded +4

Date Tue-Wed 1960 Mar 1-2 Observer Mac - H^v Julian Day 2436995
 034125 42.2 3610.6

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.
981-109	K Hya	09 ^h 38. ^m 4	-14° 09'	Ar x 2	x 2	✓ 1020	5/7	23:08	
982-109	β UMa	10 59.4	+56 36	"	"	"	4/6	23:05	
25073	HD 98153	11 12.4	27 54	I-25	E _{103a-0}	.008	-4.4	0041	0421
	From 700	0713					-5.0		

ome Temp. +17°F

ocus. 15.17

ome Temp. +14

Transparency Conditions

jud

310

ing Time
S.T.

our Angle
End

Declination

Seeing

Ptg.
Mag.

Sp.

Comp.

REMARKS

Quality

-14° 10'

10"

4.96

B5D

30"

List D

4250 - 4540

1A/1; 2°/m

+56 34

"

2.37

A1U

"

"

"

"

329W

27 35

0-1

6.86

A2

4-44

8x2 KA 8x8

#7 4169

15/10

" 8

3PH. + 4.

fine
c & m:
(good a lot)

311

Date Sun - Mon Mar 6-7 Observer Se - H Julian Day 2437000
 0 346 26 14.4 3600.1

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P
983-110	HD 47105	6 31.5	+16 29	5200	-3400	020	4/5	20 ^m 15		
984-110	ϵ Ori	4 49.4	+10° 00	"	"	"	6/1	20 45		
985-110	γ Gem	7 ^h 25.9	+39° 53	"	"	"	5/5	21 15		
986-110	HD 47105	6 31.5	+16 29	"	"	"	4/5	21 45		
987-110	α Leo	10 03.0	+12 27	"	"	"	4/4	22 10		
988-110	HD 47105	6 31.5	+16 29	"	"	"	4/5	22 40		
989-110	HD 76644	8 52.4	+48 26	"	"	"	5/3	23 15		
990-110	α Leo	10 03.0	+12 27	"	"	"	4/4	23. 45		
25074	HD 89363	10 13.6	18 13	I-25	E103a	0.008	-8.2	00 19	00 46.3	25 W
	Flow	9.26	07 13							

ome Temp. $+15^{\circ}\text{F}$

ocus. 15.12

ome Temp. $+12^{\circ}$

Transparency Conditions

312

our Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
		-5	1.95	AoIV	30"		
			4.74	A ₁ p	30"	wh lin A sks. Sid seal Time mid tran $7^{\text{h}} 35^{\text{m}}$	
			4.2	FoV	"	Sid Time mid tran $8^{\text{h}} 05$	
			1.95	AoIV	"	Sid Time at mid tran $8^{\text{h}} 33^{\text{m}}$	
			1.21	B7V	"	" " " " " $9^{\text{h}} 02$	
			1.95	AoIV	"	" " " " " $9^{\text{h}} 29$	
			3.3	A7V	"	" " " " " $10^{\text{h}} 05$	
			1.71	B7V	"	" " " " " $10^{\text{h}} 33$	
430 W	1752	0-1	6.62	Ao	4-8	Set 2 #7 $\frac{4192}{4207}$ 1KA 8X8 2400 Hz cc <i>fine</i>	
					15/10	" 8 <i>cal to v.</i>	
						2 P.H. + 4	

Date no/tn nw 7/8 Observer vaB-H Julian Day 2437001

① 347 26 14.5 3598.0

[illegible]

ome Temp. 25°F.

ocus.....15.17

ome Temp.....

Transparency Conditions Five

314

ng Time L.S.T.	our Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
35 ^M	2440 ^W	+ 3004'	0	7.7	B3ne	4+4+4	Be-Program 4.5/2 4.2/2 60/c 209-	fine
39	421 ^W	12 59	0	7.5	A5	4-8 15/10	KA8XB H216 2+8	Lowest but OK center.
							4 P.H. Focused Plates needed	
							AN OBS. PROGRAM FOR 2ND HALF IS <u>NEEDED</u> //	
							Mechanical Cont'd not working	

Date Tu-Wed 1960 Mar 8-9 Observer MR-Hr Julian Day 2437002
 © 348 26 12.5 35 95.8

[illegible]

Room Temp. 19°F

ocus.....15.15

Home Temp.....

Transparency Conditions

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
			-1.41	A1V	20"	List A 4220 - 4540 also 3400-5200	
			+4.1	B6	"	From Blue Vol II	
			+4.32	B3V	"	List D	
			45.8"	-	"	slit 20 4A/sec 5200-3600 x 2	22:49 EST
			1.21	B7V	"	" " 5200 - 3400 x 2	9:39 LST
			-	-	"	" " 5200 - 3400 x 2	
			2.37	A1V	"	" " 5200 - 3400 x 2	
			"	"	"	1A/sec	
421W	12 36 0		6.23	A0	4-4-4	8+2 KA 8x8 #7 4247-4264 ^{comp}	22:49 EST
					15/10	" 8 focus very, much to red 3 P.H. f.l.l.	9:39 LST

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
55	1:00W -1 42	00	6.2	B5	4-4-4	set 5 Hye's composite ^{dit changed} ^{.008 to .016 after 1 count}	4284 4288
59	1:30W +31 52	0	4.2		12	set 7 Se-AF	4292
24	1:55W +31 52	0	4.2		6-6	set 6 Se-AF	4299 4303
36	1:06W +17 58	0-1	6.99	A0	4-4-4	set 5 KA 8X8	4305 4325
48	2:16W 47 25	00	7.04	A5	4-4-4	" 2 " "	4326 4344
					15/10	" 8	
						2 P.H. +8	
						max. 11 MC (Lent) -1.0H SC -25.9 ME -3 S -1M20.9	

Date Fri/Sat March 11/12

Observer

vaB-L

Julian Day 2437005

① 351 25 53.7 3589.6

[illegible]

bme Temp..... 7° F

Five

320

ing Time EST.	Eur Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
22	4 ^h 02 ^m W	37° 36'	0.2-1	7.4	Bone	4+4+4	Be prop ✓	fine
15	51 14W	11° 50'	0	7.0	AO	4+4+4	KABAB	fine
155	1 00W	26 01	0	8.0	A3?	2-2-2	Fainter Component	fine
3 P.H.s loaded + 4								
Next counts does not work								

Time Temp. $+18^{\circ}F$
 Ecus. 15.13
 Time Temp. 14

Transparency Conditions

Good

322

ing Time E.S.T.	Sur Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
10	55 ^h W	+32° 35'	0	6.8	G4P4-4L	Se HV	sets	fine
3	7 ^h 00	+68° 21'	1-2	7.37	F8	4-4-4	Sp. Binoculars	fine
239	0:15W	+47° 24'		7.04	A5	4-4	Set 5 K.A. 8x8	strong
22	43W	+17° 37'	1	4.5		4-4-4	set 1 se AF I a-o plate	12 ³⁴ 34
3	057W	"	"	"		6-6	set 5 " " looked Nov 1/59	6 ³⁶ 42 fine
42	03W	"	"	"		12	set 8 " " spotted double normal time	3 - best
513	025W	-14 17		4.7	Be	6-6	set 5 Se Shell	5 8 " 8 good
						15/10	set 9 center too strong. Council, done? c set 12	

3 P.H. + 12
 Counters not working

05^h 20^m E.S.T. - set on field of R Cor Box - no stars visible
 brighter than 9^m.

Date Sun-Mon 1960 Mar 13-14 Observer MR-HV Julian Day 171.5

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.
999-112	α Cma	06 43.4	-16 40	H8x2	+ $\rightarrow$	$\checkmark$ 020	3/5	19:38	
1000-112	χ^2 Ori	06 01.6	+20 08	H8x2	x2	"	5/7	20:21	
1001-112	γ Gem	06 26.6	+20 15	H8x2	x2	"	5/5	20:46	
1002-112	HR 3314	08 23.7	-03 47	H8x2	—	"	5/5	21:17	
1003-112	δ Leo	10 06.1	+12 11	scan		"	4/4	+ 21:40	
1004-112	Uranus	9 21.3	+16 14	"		"	6/4	+ 22:03	
1005-112	δ Leo	10 6.1	+12 11	"		"	4/4	+ 22:55	
1006-112	β UMa	10 59.4	+36 36	"	+ H8x2	"	4/6 -5.0	+ 23:35	

Eme Temp. +23°F

Ecus.....

Eme Temp.....

Transparency Conditions haze in NE, clouds in W
thermo clear at sunset

329.

Bar Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
			-1.41	A1V	30"	Link A 4200-4540; also 3400-5200-3200	
			4.71	B2 Ia	"	" D 4200-4540 + 4220-4420	
			4.1	B6	"	from Dec 4220-4540	EST 21:21
			3.95	A0V	"	" D 4220-4540	LST 8:30
			1.21	B7V	"	5204-3400 (3760-3400 on 4/5)	(from set at 12) on 6/4
			-	-	"	" "(4020- " ")	
			1.21	B7V	"	" "(3960- " ")	
			2.37	A1V	"	" "(3960- " 4/7)	

Haze after midnight
clear at 0145

Date Mon - Tue March 14-15 Observer W.B. - H.V. Julian Day 2437008
 0354 25 16.6 3583.9

[illegible]

ome Temp.....

326

[illegible]

Home Temp.

ocus.....15.19

Home Temp.+17.0

Transparency Conditions

328

ing Time
EST.

our Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
		10	-1.41	A1V	30"	Set A 4220-4540 see tracing	slimy aurora in N 1/2 1st sep from sunset
		1.21	B7V	"	"	5204-3400 + UV again at slit 40 5200-3800 at slit 20	
40W at 22:49		-	-	"	"	5200-3800 " " "	
		1.21	B7V	"	"	5200-3700	aurora still present patches
		0.0 2.37	A1V	"	"	5200-3800; 4220-4540 list D	calculated
50 W	25 59	0.0	8.0		4-4-4	Set 2 KA. 8X8 Fainter Component. #84753	low note
					15/10	" 8 Haze + cloud after 4.00	15
						1 P. H. + 7	
						max. $\frac{mic}{15}$ $\frac{sc}{+13}$ $\frac{mb}{-26.5}$ $\frac{s}{-3}$ $-1^m 30.6$	

Date Sat-Sun March 19/20 Observer

-Ms

Julian Day 2437013

① 359 23 38.1 3575.1

[illegible]

Home Temp. + 25°F

Transparency Conditions

Transparency Conditions *fair to middling*

330

	our Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
40	20:32E	+17 38	0-1	H.S	?	H-H-F	set 1 Se AF	4967 ⁹² sens 7 99 } fine
52	20:19E	"	"	"	"	G-B	set 5 " "	5000 SD 16 }
51	20:11E	"	"	"	"	12	set 8 " "	SD 16 5024 }
31	20:11E	+46 16	"	4.3	"	H-H-4	set 1 " "	5028 72 } poor
39	20:02E	"	"	"	"	3	set 5 " "	72 72 }
44	20:03W	-14 11	1-2	"	"	H	set 8 " "	5093 5103 }
34	20:47E	-14 11	0	A.7	Be	4-4-4	set 5 Se shell	sens 7 5112 5130 } none
						15/10	set 9	on
03:45 set on field of R Cor Bor (through thin cloud). No bright star visible clouds at end 3 P.H., +4								

Date Sun Mar 20-21/60 Observer L-Hv Julian Day 2437014
 © 0023.13.2 3573.4

[illegible]

Home Temp.....

332

ing Time
P.S.T.

Date Th/Fri. March 24/25 '59 Observer vdB-Hv Julian Day 2437018
 ☉ ~~18~~ 4 21 16.2 3566.2

[illegible]

Home Temp. 5

Transparency Conditions

334

[illegible]

Dome Temp. $+17^{\circ}F$ Focus 15.16

Dome Temp.

Transparency Conditions

336

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
30. 0 10 E	60 18	0	7.37	F8	444	Spect. Bin Lens 8 $\begin{smallmatrix} 5266 \\ 5316 \end{smallmatrix}$	<i>fine</i>
						3PHs loaded Plates needed	
						$\begin{smallmatrix} MC \\ +37 \end{smallmatrix}$ $\begin{smallmatrix} SC \\ -27.5 \end{smallmatrix}$ $\begin{smallmatrix} ME \\ -1.9 \end{smallmatrix}$ $\begin{smallmatrix} S \\ -1451.0 \end{smallmatrix}$	

Date Sat - Sun Mar 26-27

Date Sat - Sun Mar 26-77 Observer Se - Ms

Julian Day 2437020.

© 6 20 06.6 35-62.1

[illegible]

Room Temp. $+ 22$

Transparency Conditions..... *Hazy*

338

3 PH + 8 $\frac{m_{ps.30}}{+31}$ $\frac{MC}{-27.5}$ $\frac{SC}{-1}$ $\frac{me}{-1^{14}46.1}$ $\frac{s}{-1^{14}46.1}$

Home Temp. +37

ocus. 15.126

Home Temp.

Transparency Conditions

340

our Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
07 13 22	+11 17'	0	5.8	B228	4-4-4	Be prog. Set 1 {5575	strong
014 25 6W	+11 50	0	7.04	A0	4-4-4	KA 8x8 " 7 {5593	Lowest
026 03 41 W	47 25	0	7.04	A5	4-4-4	Set 2 KA 8x8 " 7 5616-35	fine
					15/10	" 8	color
						1P.H + 7?	

Date Sat-Sun 1960 Apr 9/10 Observer MR. - L Julian Day 2437034
 @ 20 07 54.7 3530.9

[illegible]

Room Temp. $+27^{\circ}\text{F}$

Transparency Conditions

sl. by

170 visitors

Shaved Waxes

342

ing Time E.S.T.	bur Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality	
1:38	1:15 W	+16 26	-	5.7	-	4-4-4	st 2	ST-5646-64	Look
00	3 37W	"	-	"	-	6-6	st 5	5675-85	Good
3 15	1 48W	11 07	1	7.34	F ₂	444	1KA 8'x8" clouds.	SB 5687-737	fine but out
							3 PHs loaded + 4		

Date Sun-Mon 1960 Apr 10/11 Observer DH - HV Julian Day 2437.035
0 21 06 45.6 35 28.9

[illegible]

Home Temp. 32° F

Focus 15.35-0.29 → 15.26

Home Temp.

Transparency Conditions 2100 light cloud from NW

2200 green aurora in NE

0015 Thin Cloud

0210 Solid Cloud

344

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
40W	+60° 18'	0	7.37	FB	4-4-4	Set 5 Spec Bin-N - Sens8 METER START 5785 50 cc's 5835	✓
317W	+17° 57'	0	6.99	AO	4-4-4	Set 3 KA 8'x8' Sens7 (20 counts) 5837 -55	✓
					15/10 " 8		C r. al. 4 v
					1 P. H +4		

Date Tues-Wed 1960 Apr 12/13 Observer MR-HV Julian Day 2437037.
 ☉ 23 04 21.3 3525.0

[illegible]

Dome Temp.....

346

ing Time
E.S.T.

Date Apr 18-19/60 Observer - Hv

Julian Day 2437043.

© 28 56 25.0 3514.8

[illegible]

Dome Temp.....

Good

348

April 15 L changed to
12 1/2" camera

25" was

Form 15.35

Gilt 23.15

1.25" Focus 12.915"

Filt 20.35

[illegible]

Date Jues April 19-20/60 Observer L-H5 Julian Day 2437044
 © 29 54 59.8 3513.1

⊙ 29 54 59.8 3513.1

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.I.
25116	H.D. 84059	09 37.4	45 11	L-12	E103A	5 st 008	+8.5	20 26	21 20	3
25117	BD 45° 1758	09 38.7	45 24	"	"	016	+8.5	21 26	00 10*	4
	Flowers Tent		0713						* Effective	

Dome Temp.....1.1

Transparency Conditions

350

0010 CLOUDS STAR GONE

Closed at 0135

g Time S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
20	L 13W	44 53	0-1	7.50	A8	22-2	KAFS " Sun 8- 6048	good
10	2403W*	45 07	0-1	9.99	G2	1-1-1	KAFS Set 5 " 10 6060	
						4/3	" 9 6062	weak
								Chn
							3 p.H. + 8	
							Apr. 20. MC +5.5 SC -31.1 ME +1 S -2^m 07.7. Apr. 22. MC +5.5 SC -31.8 ME +1 S -2^m 08.5	

Date..... Fr/Sat Apr 22/23

Observer.....val S

Julian Day 2437047.

① 32 50 34.3 3508.1

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.E.
25118 {	HD 103095	11 ^h 47.2	+38° 26'	12"	103A D	.008	17°C	20 ^m 23 ^m	20 ^m 38	1
" "	"	"	"	"	"	.016	"	20 ^m 41	20 ^m 50	1
25119	HD 114071	13 ^h 03.0	+29° 59'	"	"	.016	"	21 ^m 10 ^m	22 ^m 20	2
25119F	Focus test				I A 0	.008	+7.6			
					outside through base.					

Dome Temp.....

Transparency Conditions CL. in S

352

Sat Apr 23 Cloudy. 190 visitors Hd - L.
Showed films & telescope.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
1 ^h 27 ^m E	38°00'	1	2-3	S5	2+2+2	pos 2 ST. Vel. 97-03	Focus mean low
1 ^h 14 ^m E	"	1	"	"	1+1+1	pos 8 03-8	
	29°38'	1?	10-08	F8	1+1+1	KAFS 57-602 09-41	Too weak
						Clouded out 22 ^h 20 ^m	
						1 PH + 1	
						10/7 Set 1 Focus 12.93	
						10/7 " 3 " 12.94	
						10/7 " 5 " 12.95	
						10/7 " 7 " 12.96	
						10/7 " 9 " 12.97	
						Set focus 12.93	

Date Wed - Thu April 27-28 Observer Se - Hr Julian Day 2437052
 © 37 42 36.8 3498.9

[illegible]

Dome Temp. $+42^{\circ} \text{F}$

Focus.....

Dome Temp.....

Transparency Conditions *Heze, clouds S+E.*

359

v. Bright Aurora S.T. 21:30

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
T = 11:33 *							
057W	$-1^{\circ} 34$	00	7.4	K ₁	2-2-2	Standard velocity ^{Sus 8} 12 cits ⁶¹⁴⁶ +2	Low
0307W	$+59^{\circ} 51$	0	9.84	FS	2-1-1	AURORA ^{Sus 10} 70 cits KAFS ⁶¹⁸¹ ⁶²¹⁵	Low
					8/6	Set 9	Ch.
						3 P.H. found.	
						Bright Aurora after 3 AM	

* approx computation G_y.

Date Thurs April 28-29 Observer L-H Julian Day 2437053

③ 38 40 55.7 2496.9

[illegible]

Dome Temp. 45°F

Focus. 12.93

Dome Temp.

Transparency Conditions

0200 Brilliant Aurora

Sat April 29-30

100 visitors shown

telescope, Marie Se
St

356

Clouds at sunset delayed start.

Time	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
22	0 38E	17 43	0	8.2	F ₇	1-1-1	Sit 2 Standard Vel Sins 8 6255	Low
30	0 30W	"	0	"	"	2-2-2	" 7 " 6267	Low
11	0 421W	45 21	0	9.28	F ₃	1-1-1	" 5 KAFS #9 6283	weak
						8/6	" 9 6312	weak
							not comp but C & R (?)	
							I.P.H. Panel	
							Apr 28 WEA 8 visitors N	

357

Date Sun May 1-2/60 Observer HD + HV Julian Day 2437086
 ☉ 41 35 40.7 3491.0

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.
25124	HD 103095	11 47.2	+38 26	I-12	E103aD	008		20 26	20 41	3
							9.0	20 42	21 08	
								2		
25125	"	"	"	"	E11aD			21 17	21 37	4
							9.0	21 37	22 01	
25126	HD 121933	13 53.5	+45 39	"	E14aD	016	8.9	23 14	01 48	1
	Focus 7.5 ft.			"	"	.008	07 B.			
25127	HD-142592	1550.3	45 15	"	"	.016	8.9	02 00	04 16	2
	Focus 7.5 ft		0 TB	"	"	.008				

Dome Temp. 46 F

Focus.....

Dome Temp.....

Transparency Conditions.....

358

22h - 22h30 Hr, J.E.H. Looked AT M3 (Very Good)
Seton & CVn but had dec. troubles0045 FIRE NEAR WATER TOWER IN R.H. PHONED FIRE DEPT.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0 45E		0	7.3	G5	2-2-2	2-2-2	6317 (4 to) fine
0 18E	37 58	0-1			2-2-2	" 8	6321
		OTB			12/6	" 5	6322 (8 to) fine
					2-2-2	" 2	6330 from on that side
W 33 ^m					4-4-4	" 9	6332 (6 to) fine
216W	45 19	0-1	9.28	F3	1-1-1	" 2 KAFS	6338 8 to fine
					8/6	" 8	6339 8 to fine
247W	45 04	0	9.25	A2	1-1-1	" 2 KAFS	6348 (45) fine
					8/6	" 8	6393 OK
						0330 a few clouds	6396 8 good
						SOME HAZE	6431 OK

P.H.#3 trail LIIa0

Dome Temp. 52°F

Transparency Conditions Fair Low Fine

360

Focus

Dome Temp.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
1 ^h 00 E	29° 26'	1	10.00	F8	1 1 1/2 + 1/2	KAFS (KASE) 6432-6522	fair?
1 ^h 30 E	45° 03'	1	9.25	A2	1 1/2 + 1/2	" (KAF35) 6532-6577	good
32.3 W		0-1	9.60	A8	1-2	" Set 2 KA15 #9 6583 6628	good
					8/6	" 8	C hardly to mid.

25130 F₂ from set 12.93.~~Trans test~~

Short test. Set

Plunge
Plane. dist

Exp

1/2	3	10
2	3 1/4	12
3 1/2	3 1/2	12
5 1/2	3 3/4	112
6 1/2	4	12
8 1/2	4 1/4	12
9 1/2		12

1 P.H. + 1 E.T. IN FRIG.

Passing Clouds all night. (after circle)

More Frequent near Dawn.

May 4th. $\frac{MC}{+1.795}$ $\frac{SC}{-36.2}$ $\frac{ME}{0.0}$ $\frac{S}{+23.145}$

1960 May 3: Had trouble with dec clamp & slow motion.

Finally set dec clamp to 105°

Set from at 12.945 Temp 18°

Clouds

MR

closed at 0040 HV

Date Wed ^{May} April 4-5/60 Observer L-H Julian Day 2437059
 044.30 07.9 3485.2

[illegible]

Dome Temp.....

Haye

362

Clouds at sunset.

CC

Date Thu-Fri May 5-6

Observer

5-

...Julian Day...2437060

① 45 28 13.1 3483.2

[illegible]

Home Temp. $+60^{\circ} \text{F}$

ocus.....

Home Temp.....

Transparency Conditions *Very hazy some cloud*

369

our Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
38 2 ^h 59W	103° 32	0	6.1	K-1	2-2-2	Std Vel Ex Mk set 8 isch 26743-58 CLOUDS	weak
						ZPH +8	
						= Frig.	
						Sat May 7 5-04 Cloudy r. m.ing -	
						85 at 9 pm 55 at 10 pm Demonstrated	
						telescope for each group and talked on current	
						astronomy with slides	

Hy = Dick Henry.

Julian Day 2437066

⑤ 51 16 05.4- 3473.1

[illegible]

Dome Temp. 44°F

Focus.....12.93.....

Dome Temp.

Transparency Conditions

366

ing Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
5:21	Σ 3m	49 37	1	6.8	M2	2-2-2	Set 2 Star vel. rem 7 clouds	6795 6801 <i>to weak</i>
							May 13. $\frac{MC}{+1^m 43^s}$ $\frac{S}{-40.2}$ $\frac{ME}{0.0}$ $\frac{S}{+22^m 15^s}$	

Date Sat May 14-15/60 Observer L-M S Julian Day 2437069
054 09 40.5 3469.1

[illegible]

Dome Temp.....1....

Transparency Conditions

Poor

368

N-L showed 250 Visitors @ Can Ven.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
01 29W	45 25	1	7.64	F ₃	2-2-2	KAFS. sem 8	6816 6829
			set 10	8/6	Solid cloud at end -		

Date Sun May 15-16/60 Observer Hol-Hv Julian Day 2437070
055 07 29.6 3468.0

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.I.
25135	HD 131861	14 50.9	45 43	E -12	L 90	008	17.0	22 43	23 19	1
25136	HD 114059	13 02.9	+29 57	"	"	016	17.1	23 50	03 08	2
25137	" 145091	16 03.6	+17 19	"	"	016	17.1	03 32	03 40	3
	Two Test		0713			008				"

Dome Temp.....

Transparency Conditions

370

Focus.....

Dome Temp.....

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
19 E 16 ^m	45 25	2	7.64	F3	2-2-2	KAFS ⁶⁸³¹ unc 8 ⁶⁸⁴⁷	Low wedge OK
08 0520W	+29 41	1-0	10.06	G8	1-2	KAFS ⁶⁸⁶⁰ As far West as possible ⁶⁸⁸⁶ unc 10.	no star Star!
40 0253W	+17 10	0-1	6.1	G4	3	Set 2 STD. VEL ⁶⁸⁹⁰ Sane 6 ⁶⁸⁹² (3)	OK but wrong
					8/6	" 8	
						1 P.H. Looked in Trig.	
						Cannot Focus May 14/17 Suck	!

Date Wed 30/18-19/60 Observer Se - Hr Julian Day 24370723.5
 ☉ 58 00 50.3 ♀ 3464.6

[illegible]

Dome Temp. 66°

Transparency Conditions Poor

372

Focus.....

Dome Temp.....

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
01 ^h 22 ^m W	3° 31'	1	6.1	K1	2-4	Standard Vol. Stars	6903 weak 6909 (3 minutes)
01 52 W	"	1	"	"	2-2-2	" " "	" weak 6910 6916 CLOUDS
0 ^h 11 ^m E	1° 54'	1	5.6	G0	2-2-2	" " "	" * 6920 6926 weak
0 ^h 04 ^m E	"	1	5.6	G0	2-2.	" " "	" 6922 (quadrant)
0102W	6015	1-2	9.08	K3	1-2	Set 2 KAFS	" 9 6948 too weak 6993
0342W	5952	2+	9.84	F5	1-1-1	" " "	" 9 6997 too weak 7044
					8/6	" 8	OK

Wed - Hd 60 Visitors, Can Astronomical
Society, Se showed telescope, Hd films.

1 P.H. in Fring.

* apparently spotted
with ground
glass up

Thurs - Hd 4 L showed double star
to 30 RH Lions Club.

71-ry star in 28° ???

May 20	MC	SC	MC	S
	+1 ^m 22 ^s	-46.2	0.0	+22 ^m 16.8
May 26	MC	SC	MC	
	+1 ^m 24 ^s	-52.2	0.0	

Sat May 21.

75 visitors clouds & fog

Hd, Lg showed "Exploring the Universe"
and demonstrated telescope

145C

Date _____

Observer

Julian Day

[illegible]

Dome Temp.....

Transparency Conditions

Time

374

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
2 ^h 17 ^m W.	+17° 42'	0	8.2	F7	2-2-2	Star. (red stars) P.H. setting 3. " 7047 86 83 May be weak	Weak
0 15 W	0 11	0	9.28	B9 Ib	1-2	Set 2 OB. #9 7071 7074	Too weak
					4/3	" 8	OK.
						2 P.H. Header in Ring.	
						NEED NEW OBS. PROG. W/ BRIGHTER STARS.!!!	
						Sidereal Clock out by 1 ^m 10 ^s ?? g.g.	

375

Date Fri May 27/60 Observer H4 Julian Day 2437082.5
 ☉ 66° 39' 51.5" 3454

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.
25146	HD 145001	16 03.6	+17 19	I-12	II a-0	.008	20°C	01:04	01:18	1
25147	HD 145001	16 03.6	+17 19	I-12	II a-0	.016	20°C	01:38	02:02	3
25148	HD 187691	19 46.2	+10 10	I-12	II a-0	.016	20°C	02:32	03:00	4

Gg. June 1/60

Test for A hosts - Iron Ac

(found camera set at 12.92)

P.H. - 1.

T = 18°C

25148 F₁

P.H. setting	Focus mm.	Expos
0	15.00	12 ^s
1 1/2	14.50	"
3	14.00	"
4 1/2	13.50	"
6	13.00	"
7 1/2	12.50	"
9	12.00	"
10 1/2	11.50	15 ^s

25148 F₂

P.H. setting	Focus mm.	Expos.
0	13.10	12 ^s
1 1/2	13.00	"
3	12.95	"
4 1/2	12.90	"
6	12.85	"
7 1/2	12.80	"
10	12.70	15 ^s

Dome Temp.....

Transparency Conditions

Sat May 28

Se-Hy-JB-SP shared
200 Telescope + lecture
+ slides.

376

Time T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality	
8	1 ^h 21 W	17° 09'	○	6.1	G4	2-2-2	STANDARD VEL STAR <u>Sens 6</u>	7095 7097 7099	L. good
02	2 ^h 05 W	"	○	"	"	2-2-2	" " " <u>Sens 6</u>	7097 7101 7103	L. good
00	00 ^h 40 ^m E	10° 16'	○	5.8	F8	2-2-2	" " " <u>Sens 6</u>	7104 7106	L. good
Haze + thin cloud toward end									
3 plate holders in frig									
$m_{0430} \quad \frac{MC}{+1^m 29^s} \quad \frac{SC}{-5.77} \quad \frac{MC}{0.0} \quad \frac{S}{+22^m 05.4}.$									

Date Wed. June 1-2/60 Observer Gg. - H v Julian Day 2437087.5
 ☉ 71°27'29.3", 3447.8

[illegible]

Dome Temp. 72
 Focus 12.92 → as I found it G.
 Dome Temp.

Transparency Conditions Good!

378

0300 Clouds

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0 ^h 8 ^m E	49° 38'	0-1	6.8	M2	3-	Sol. Vel <u>Setting 34</u> (choose light sun for few seconds) Sens. 7. ^{counts} 7112 (1) 7119	l. weak
0 ^h 11 ^m W	"	0-1	"	"	2-2-2	Sol. Vel <u>Setting 7</u> Sens. 7. ^{counts} 7020 (2) 7028	good
0 ^h 28 ^m W	"	0-1	"	"	2-2-2	Sol. Vel. <u>Setting 5</u> Sens. 7 (8) ^{counts} 7134 7142	l. weak
0 ^h 07 ^m W	-	1	5.6	G0	3-3	Sol. Vel <u>Setting 5</u> Sens. 6. (4) ^{counts} 7162 7166	fine
0 ^h 22 ^m W	-	1	"	"	3-2	Sol. Vel <u>Setting 8</u> Sens. 6. (3) ^{counts} 7167	good
0 ^h 23 ^m W	60 08	0-1	9.08	K3	2-1	KAFS <u>Setting</u> Sens. 9. (4) ^{counts} 7172 7220	good
0 ^h 12 ^m W	13 02	0-1	7.7	B(3)nc	3-3	MWC 312 H2Be " 3 Sens. 8 ^{counts} 7227 - 7232	good
					8/6		<u>Comparison OK.</u>

2 P.H. in Fring.

all slightly fogged due to
overheating, (probably)
 (no other cause apparent)

* Gg - had to adjust firing t. dial, it was
 firing at $\leq .5$, it now fires at .98.

379

Date Thu June 3/60 Observer Gg - Hr Julian Day 2437088.5
 ☉ 72° 24' 57".1 3446.5

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.
25154	144579	16 01.5	+39 24	I-12	IL A-O	.016	20°C	22:53	23:25	4
	FOCUS TEST		O.T.B			.008				
25155	HD 144579	"	"	"	"	.008	20	0034	0200*	

*Eff. time.

Gg - June 3 - Focus Test

- just the iron arc

P.H. #1.

P.H. Setting	Focus mm	Expos
0	12.86	7 ^s
1 1/2	.87	7 ^s
3	.88	7 ^s
4 1/2	.84	7 ^s
6	.90	7 ^s
7 1/2	.91	7 ^s
10	.92	7

Dome Temp.....

Transparency Conditions

Thin flake.

380

clouds in south up till 21^h :
Scattered clouds at 23^h 10^m.

0120 Foggy!! 0200 Fog obscuring visibility.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0 ^h 08 ^m W		0!	7.2	G 8	2-	Std. Vel. Spar. Setting 5 607 Sens. 203 ^{72.35} _{clouded out} ^{plus} (Focus O.K.)	good
					8/6	Setting 9 OVERCAST AT 23 ^h 20 ^m FOG — <u>wagging</u> ^{up!}	
23 ^h 10 ^m W*	39 12	0	"	"	2-4	" 2 #8 72.42 ₋₄₅	<u>too weak</u>
So foggy can't see							
June 3. $\frac{MC}{+1^m 32^s}$ $\frac{SC}{-1^m 03.6^s}$ $\frac{SW}{+7.9^s}$ $\frac{S}{+22^m 01.5^s}$							
all slightly fogged due to <u>overhaking</u> .							
1 P.H. (#1), <u>in focus</u>							
Bg — Slow motion shutter's refused to work — played with Disc clamp at 9:40 pm. Started phoning over body at 9:55 — meat loss. — got hold of Frank at 10:10 pm. — 10:20 — O.K. — motion key — not grounded.							

Date Fri June 3-4/60 Observer L. Hy Julian Day 2437089.5
 ☉ 73 22 23.6 3445

[illegible]

Dome Temp.....

Sat Jun 4 200 clear telescope
and moon Se - Br - KM

382

good
good.
fine

Date Su/Mo. June 5/6, 1960 Observer RB - Gg Julian Day 2437091.5
 ① 75 17 12.9 ② 3442.9

① 75 17 12.9 3442.9

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.
25158	HD 133965	15 ^m 02.2	+29° 35'	12"	I _a O	.06	23	21 ^m 13 ^s	02:33	4
25159	HD 187691	19 46.2	+10 10	"	"	.008	22	3 ^m 05 ^s	3:25	1
<u>FOCUS TEST</u>				- OTB		.008				
MIRROR ALUMINIZED										
<u>Moon Jun 6 to Fri Jun 10</u>										

Room Temp.....63.0.....

OCUS.....

Dome Temp.....52.....

Transparency Conditions Five.....

bright gibbous-moon.
Wind - 20 mph.

384

Time T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
23	h 13 ^m W	129° 17'	0-	9.42	F6	2+2+2	KAFS ^{Sens 9.} Setting 7326 ^{60 counts} and at 7386 ^{30 counts at 00:15} got 50 counts 7378-81	Too weak too weak Trans OK
S	h 21 ^m W	110° 17'	0	5.8	F8	2-3	Std. Vel. ^{Sens 6.} Setting 3 counts (refocused) 8/6 (6 days) image bounces around a lot in visitors eye piece date to mind.	
Night entirely wasted because of 1 PH in frig + yellow box. Standard Time Clock is 4^m slow - Gg. Gg - At 3:28 I discovered that "bottom plunges" was half way down <u>all night</u>! June 6 MC 0.0 SC -1705.8								

Dome Temp. 57

Transparency Conditions Some thin cloud & haze
thickening towards mnt.
Clouds in south at 3:00

386

F.M. in 2006

	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0 ^h 43~ W	49° 42'	0	68	M2	2-2-2	Set 7 - o	std vel Sens 7 7386 7394	faint
0 ^h 58~ W	"	0-1	"	"	1-1-1	Set 2	" 7395 7403	fine
4 ^h 08~ W	59° 12'	1-0	8.36	F8p	2-2-2	Set 5 KAFS	comparing very slowly - haze thick Sens 8 7404 7424 ✓	d weak
0 ^h 24~ W	23° 15'	0-1	7.5	B3e	2-2-2	Set 6 Be Prog.	Sens 7. (10) 7430 7440	fine
0 ^h 08~ W	29° 04'	.10	8.5	R1 Ib p	2-2-	Set 6 O-B prog.	Sens 8 7443, -56 20-25 (not enough time) (picked too faint star)	d weak
					8/6	Set 10 oro (replaced plate)		
							June 15 ME +1" 38.5 SC -1" 13.3 mE -2 S +21" 46.3	
<u>Claire</u>							4 PM in frig + 8 in yellow box	
Sat. night June 11. Se, Gg, V. Baranoff							Cross hair if fine motion cross hairs of visitors eye piece Gg.	
also neutral telescope shown							- Put iron wire bars closer tog than Gg. target spot.	
film Th Eyepiece & Viewfinder used Gg								
arranged position before view.								
about 152 inches.							Add 3' to dec to get correct value Br.	

Dome Temp.....

388

[illegible]

Date Sun-Mon Jun 19-20 Observer Coq-Hv Julian Day 2437105.5
 ☉ 88° 39' 33.5" 3435.8

[illegible]

Dome Temp. 63

Focus. 12.92

Dome Temp.

Transparency Conditions

Clear

390

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
			9.42			KAFS Too faint to show up in finder telescope at 2120, Field Connect. No. 2 read stars field, wrong. #59 KA.	
0 ^h 51W	+01° 58'	0	5.6	G0	2-2	Sol. Vel Setting 3, Sens 6. 7533 37	Good
1 ^h 07W	"	0	"	"	2-2	" Setting 7, Sens 6. 1538 42	Good
0 ^h 51W	+29° 23'	0	9.42	F6	1-2	KAFS setting 5, Sens 9 7544 66	Too weak

* As far West as Possible 4/3

" 9

1 P.H. in Frig.

June 20 $\frac{MC}{+1^m 39.5}$ $\frac{SC}{-1^m 20.6}$ $\frac{MIE}{-5}$ $\frac{S}{+21^m 40.5}$

Advanced EST clock +4^m to conform with MEPCU in clock room - Gg.

Date June 20/21 1960 Mon/Tue Observer W.D. + PT - Gr Julian Day 2437106.5
 ☉ 89° 36' 49.3" 3435.5

[illegible]

Dome Temp. 67°F

Focus

Dome Temp. 58°F

Transparency Conditions Fair (Circum.)

thin cloud & haze later (AM).

392

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
3 ^h 08 ^m W	+45° 29'	0	7.64	F3	4+4+4	KA34 H1-5355 Sens 8 7580 - 7600 Set 5	fooded l. weak
0 ^h 02 ^m W	+32° 16'	0-0	7.0	Bone	2+2+2	Be prog. Sens 8 7601 - 7621 Set 5	"
0 ^h 14 ^m W	37° 22'	0	5.7	B3 ne	2+2+2	Be prog. Sens 8 7622 - 7642 Set 5	(guiding)
0 ^h 06 ^m E?	46° 00'	0	4.9	B2.5 ne	2+2+2	" 7 7647 7655 Set 5	fine
0 ^h 12 ^m W	46° 00'	1	5.2	B3 ne	2+2+2	" 7 7657 7665 Set 5	"
					8/6		Set D. ok

4 PH in frig
yellow box empty. Br

Date June 21-22 1960 Observer L & Pt - Hr Julian Day 2437107.5
Tue/Wed $\odot$ 90° 34' 04.8" 3435.2"

[illegible]

Dome Temp.

Transparency Conditions

Passing Clouds. all night
0230 Cloudy.

394

	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
5	0336W	+45° 31'	○	7.64	F3	2+2+2	Sens. 7 KAFS 7676 - 7684	fair!
2	0134W	+60 00	○	6.9	B4e	2-4	Set 2 Sens. 7 7686 - 7692 MWC308	(guiding)
						8/6	" 8	o.k.
							2 P.H. in Tring.	
							June 22. $\frac{mc}{+1^m 40}$ $\frac{sc}{-1^m 21.7}$ $\frac{gw}{+22.1}$ $\frac{me}{0.0}$ $\frac{s}{+21^m 41.3}$	

395

Date June 22-23 / 60 Observer - Hy Julian Day 2437108.5
 Wed-Thur 091°31'20.0" 3434.9

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.
25174	BD+28°3434	19 37.3	+28 55	12"	IIaO	.008		00:00		3
25173 F₁ - Focus Tests Gg Jun 23. T = 22°C. .008. Plunger out <u>3 3/8 inches.</u> P.H.#2 10 sec exposure ea. Normal Triangles only.										
				P.H. posn	focus					
				0	12.96					
				1 1/2	.94					
				3	.92					
				4 1/2	.90					
				6	.88					
				7 1/2	.86					
				10	.84					

Dome Temp. 64°F Transparency Conditions poor (haze)

396

Focus.....

Dome Temp.....

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
			8.5	BIbp2-		3 counts in $1\frac{1}{2}$ hr haze continually increased. At 01:00 cloud appeared. — <u>OUT</u>	
						2 ph. in figs.	
						handle on observer's box broken.	
						June 24 $\frac{nc}{+1^m 40}$ $\frac{sc}{-1^m 24.2}$ $\frac{sw}{+20.8}$ $\frac{mf}{+1}$ $\frac{s}{+21^m 38.0}$	

Date June 25/26 Observer satB - Hy Julian Day 2437111.5
 0 94 23 03.8 3433.9

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.
25174	4 IV	—	—	12"	IIaO	008	23	22 25	23 05	4
	4 I	—	—	12"	IIaO	008	23	23 05		4
25175	HD 192445	20 09 8	+36 02'	12"	IIaO	008	23½	00 36	01 46	1
25176	HD 184	Focus test OTB								
25176	HD 187691	19 46.2	+10 10	12"	IIaO	008	23½	02 04	02 36	3
"	"	"	"	"	"	016	23½	02 37	02 52	3
25177	HD 195407	20 26.0	+36 39'	12"	IIaO	008	23½	03 05	03 47	4

Dome Temp.....

398

[illegible]

Date Sun - Mon Jun 26-27/60 Observer - Gg Julian Day 2437112.5
09520 17.7 3433.5

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.
25178	HD 164284	17 ^h 55.3 ^m	4° 22'	1-12	II-AO	.008	25	00:40	00:50.	1
25179	HD 172044	18 32.9	+33 23	"	"	.016	"	1:17	1:27.	2
25180	HD 180398	19 11.3	12 56	"	"	.008	"	1:45	3:45	3
	Focus Test		GXB							

Dome Temp. 63.....

1 1/2 for 1 acre?

Transparency Conditions

Transparency Conditions Fine except for Aurorae 400
 0 { Curtain Aurorae in North } filmy, changing
 30 { Ray Aurorae around zenith } genuinely in brightness
Extinction increased at 03:00

00:00
+ 01:30

Curtain Aurorae in North.
Ray Aurorae around zenith

filmy, changing
gently in brightness

Extinction increases at 09:00

[illegible]

401

Date Tues June 27/28 Observer HS4 L. H. Julian Day 2437113.5
 1960 0 96 17 31.2 3433.1

Plate No.	Object	R.A. 1900 1960	Declination 1900 1960	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.	Hour Ang End
25181	NGC 6205	16 40.3	+3632	Vent	103a-0			21 23 ⁰¹	21 24 ⁰¹	1	0109
25182	" 5904	15 16.6	+0214	"	"			21 31 ⁴⁰	21 33 ⁴⁰	2	0225
25183	" 5634	14 27.5	-0548	"	"			21 38	21 52	1	0321
25184	" 5897	15 15.2	-2051	"	"			22 01	22 11	2	0403
25185	" 6218	16 45.1	-0153					22 19 ³⁰	22 21 ³⁰	1	0515
25186	" 6254	16 55.0	-0403					22 25 ²⁰	22 27 ²⁰	2	0620
25187	" 6366	17 25.6	-0502					22 35	22 45	1	0733
25188	" 6535	18 01.8	-0018					22 50	23 02	2	0850
25189	" 6356	17 21.3	-1747					23 09	23 17	1	0900
25190	" "	"	"					23 19	23 25	2	0951
25191	" "	"	"					23 27	23 35	1	1050
25192	" "	"	"					23 37	23 43	2	1149
25193	" 6093	16 14.7	-2254					23 51	23 57	1	1250
25194	" 6356	17 21.3	-1747					00 02	00 10	2	0050
25195	" "	"	"					00 12	00 20	1	0100
25196	" 6649	18 31.2	-1030					00 24	00 44	2	0200

Dome Temp.

+75

Transparency Conditions

a little haze in 402
benign

Focus

Dome Temp.

Time T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	EX. Comp.	REMARKS	Quality
01	0109E	3631				1		
3 ⁴	0025W					2	Right in S.W.	
2	0132W	-05 51				14		
11	0103W					10	Not visible because of skylight.	
21 ³⁰	0015E					2	Focussed on λ Oph.	
27 ²¹	0020E					2		
45	0033E					10		
02	0052E					12		
17	0003W					8		
25	0011W					6		
35	0021W					8		
43	0029W					6		
5	0150W					6	Focussed on λ Sco	
18	0056W					8	Some light out.	
20	0106W					8		
44	0020W				2	0		

1960

Date _____

[illegible]

Dome Temp.....

Transparency Conditions

409

Focus.....

Dome Temp.....

Time T. H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	EX. Comp.	REMARKS	Quality
5	0141W					87		
08	0155W					8		
20	0206W					10		
43	0117W					4		
52	0008W					4		
04	0150W					6		
21	0223W					14		
44	0200W					18		
57	0214W					8		
05	0121W					4		
56	0101E					305	A good night, but lights very annoying. Worst offenders are 12 belonging to Construction Company in Richards, which stay on all night. It is Wed June 28-29 Hopelessly cloudy, raining	

405

SPECTROPHOTOMETER

Date.....Observer.....Julian Day.....

Plate No.	Object	R.A. 1900	Declination 1900	Inst. Spec.	Emulsion region	Analys. Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.
601 - 70	star	from obs. program		H γ x 2		20	5/3	clock	—
↑ running number	↑ night number (constant for night)					~ 10	↑ C ↑ F		
On chart put "Plate No."				"Hour angle" at beginning from pier					
e.g. 601 - 70 at beginning				"Dec." at beginning from drum					
of each tracing. Star name if				"Seeing" estimate size of star image					
you like				compared to aperture size = 30"					
				"Mag." "Spec" from obs. prog.					
				"Comp." put 30 for aperture size					
				"Remarks" beg. and ending range of λ (counter)					
				also 1 A./sec., 2 in./min. and list Letter					
		5-1 5-2							
		5-3 5-4 5-5 5-6 5-7							
		=							
		4-1 4-2 4-3 4-4 4-5 4-6 4-7							

406

ending Time
E.S.T.

ater)
ter

407

Hd. Heard
 MR MacRae
 Se Searle
 vB van den Bergh
 L Longworth
 Hr Hawker

Dg Damage
 Ru Russell
 Li Linstrom
 DH David Hogg
 Gg G. Gigg
 Hy R. Henry

408

Focus Test

8s pl-egw down

Se

GHV

Searle

6s pl-egw halfway prism H.

Se

HV

a Per

Russell

OB

Hend

Vendau

Hend

N B.

Northcott

KA end

Northcott

LAFS

all the birds
like it for dinner

M. 175 - J. F. H.

Center to Red means focus setting should be increased
 wrong! see front of book
 5/24