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1
If focus test is center to Violet, shorter the focus, i.e. increase
micrometer readings.

Dome Temp

Focus

Dome Temp

Angle

End

Dome Temp.....

L

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
						David Dunlop Observatory 74" logbook Vol 2A Plate no: 24117 - 24626 Oct 1957 - 1959 Mar	

Date Sun-Mon Oct 20-21/57 Observer O - Hr Julian Day 2426132
 ☉ 207 13 18.6 3583.3

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.
298-39	HD 188350	19 49.6	+00 01	5200	3100	10	6/4	18 27	18 45	
299-39	HD 187929	19 50.2	+00 45	"	"	"	6/3	18 49	19 06	
300-39	HD 187929	19 50.2	+00 45	"	"	"	6/3	19 09	19 28	
301-39	HD 188350	19 49.6	+00 01	"	"	"	6/4	19 33	19 50	
302-39	HD 213306	22 11.4	+56 33	"	"	"	6/1	20 03	20 20	
303-39	HD 213306	22 25.4	+57 54	"	"	"	6/2	20 25	20 42	
304-39	HD 213306	22 25.4	+57 54	"	"	"	6/2	20 43	21 01	
305-39	HD 213306	22 11.4	+56 33	"	"	"	6/1	21 05	21 23	
306-39	HD 214652	22 34.6	+36 51	5000	3900	"	6/6.5	21 37	22 13	
307-39	HD 218624	23 04.4	+18 12	"	"	"	6/5	22 20	22 52	
308-39	HD 3369	0 31.5	+33 10	"	"	"	6/1	22 56	23 31	
309-39	HD 10205	1 34.7	+40 04	"	"	"	6/2	23 35	00 27	
24117	HD 23000	03 36.9	+42 18	I-25"	E _{103a} -0	.008	8.9	00 39	01 59	2
24118	" 35761	05 23.3	+4 35	"	"	"	"	02 15	03 55	"
24119	" 32763	05 01.8	+26 12	"	"	"	8.5	04 03	05 43	3

Dome Temp. $+50^{\circ}\text{F}$ Focus 15.335

Dome Temp.

Transparency Conditions

Clear

6

Used $+0.09$ Correction.

ing Time E.S.T.	P.B.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
45		0 32 W	+00 11	8	5.57	A0	30"	2"/min 4A/sec. Telescope reversed	
06			+00 56	"	Var	Var	"	"	
26		1 18 W	+00 56	"	Var	Var	"	"	
30		1 37 W	+00 13	6	5.57	A0	"	"	
0 20		0 14 E	+56 48	"	4.51	F0	"	"	
0 42		0 06 E	+58 08	5	Var	Var	"	"	
21 01		0 13 W	+58 08	5	"	"	"	"	
21 23		0 49 W	+56 47	4	4.51	F0	"	"	
22 13		1 16 W	+37 08	3	6.7	B3	"	1A/sec.	
22 52			+18 30	3	7.0	B9	"		
23 31		0 36 W	+33 28	3	4.4	B3	"		
00 07		0 09 W	+40 21	3	5.2	B8	"		
01 59		00 01 E	42 27	1	8.06	G2 V	4-4-4	Set. 2 Se. flv.	strong
03 55		00 08 W	54 38	0	8.17	G2 V	4-4-4	" 8	Strong
05 43		02 19 W	26 15	0	8.24	G5 V	4-4-4	" 2 Q. flv. Broken cloud after 25 minutes	fine
						B/10	" S	1 P.H. + 10	OK.

Date Fri-Sat Oct 25-26/57 Observer O Julian Day 2436137

① 212 12 12.0 3592.9

[illegible]

Dome Temp. +37° F

Transparency Conditions Clear

8

Focus

Dome Temp.

ng Time S.T.	P.E.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
36		0 42 W	+0 11	8"	5.57	A0	30"	4 A per 2"/min	
57		1 06 W	+0 56	6	Var	Var	"	"	
16		1 25 W	"	"	"	"	"	"	
27								{ repeated and half	
50		1 56 W	+0 12	8	5.57	A0	"	"	
26		5 23 W	57 46	0	5.3	09 V	12	set 2	good
20		5 28 W	57 46	"	"	"	"	set 8	good
052		1 08 W	17 07	0	5.6	G5 IB	12	set 2	good
		1 12 W	17 07	"	"	"	"	set	fine
		1 20 W	+56 50	7	4.51	FO	30	4 A per 2"/min	
155		1 27 W	+58 12	6	Var	Var	"	"	
22 14		1 45 W	"	"	"	"	"	"	
22 39		2 25 W	+56 48	7	4.51	FO	"	"	
23 22		1 08 W	+59 32	6	8.2	A2	"	1 A per	
00 03		0 14 E	+56 58	6	6.7	B1	"	"	

Locke and
Kanderwerk
Student
Observing!
Strickland and
Campbell

Date Oct 25/26/57 Cont'd. Observer Hv Julian Day 175

[illegible]

Dome Temp. $+31^{\circ}\text{F}$ Focus 15.260 Dome Temp. $+29$

Transparency Conditions

Good.

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ag Time S.T.	P.E.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
40	2		2608	0	8.52	F, VI	4-4-4	Set 2 Se-Hv.	weak
31		0045	+0739	0	8.53	G, V	4-4-4	" 8 "	too weak
							15/10	" 5 "	O.K.
								2 P.H.	
							out 28	MTW ME +53.9 -1.1	

Date Mon - Tues Oct 28/29 Observer MR - FR Julian Day 2436.140
 ☉ 215 11 55.8 3597.8

⊙ 215 11 55.8 3597.8

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.
320-41	✓ Cyg	20 40.1	+45 08	4520	-4200	10	4/5	23:52		
321-41	55 Cyg	20 47.5	+45 58	4460	-4200	"	6/3	00:10		
322-41	HD 218440	23 05.5	+19 32	4515	-4240	"	6/5	00:26		
323-41	✓ And	23 36.1	+43 03	4526	-4270	"	5/6	00:42		
24124	✓ And	23 33.2	+42 43	I-25	103a-0	008	+7.5	23:33	23:34	4
"	✓ And	23 33.2	+42 43	I-25	"	"	"	23:41	23:43	"
"	✓ And	23 33.2	+42 43	I-25	"	"	"	23:49	23:5	"
24125	HD 16397	02 32.7	+30 24	"	"	"	+7.0*	00:17	01:17	2
24126	" 19 180	02 32.7	+25 13	"	"	"	6.8	01:35	03:57	3
	✓	1	07/13							"

Dome Temp. $+40^{\circ}$ Focus 15.31

Dome Temp.

Transparency Conditions *old fog, then clear*

12

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
—	$+45^{\circ} 08'$		1.35	A2 Ia	20°	$2''/\text{min}$ 1 A few	
$+3:33$	$+45^{\circ} 58'$		5.22	B3 Ia	"	"	
$+1:33$	$+59^{\circ} 32'$		4.9	B2 V	"	"	
$+1:14$	$+43^{\circ} 01'$		4.28	B8 V	"	" also 4950-3800	
2:10 W	$43^{\circ} 00'$	1	4.2	B8 V	10°	set 2 (1m) Astronomy 5 (Sher)	fair
2:18 W	$43^{\circ} 00'$	"	"	"	"	set 5 (2") " (V Sears)	good
2:31 W	"	"	"	"	"	set 8 ($5\frac{1}{2}''$) " (Sher)	strong
00 52 W	$30^{\circ} 37'$	1	7.92	G1 V	4-4.4	" 2 Se-Hv. * Heat Not Set.	good.
03 05 W	$25^{\circ} 26'$	1	8.70	G5	4-8	" 5 Spect. Bin. 0330 Cloud. + Haze.	cos much
					$15/10$	" 9	O.K.

2 P.H.

	mc	sc	MTW	STW	S	SW	ME
Oct 30	-39.7	-47.5	+1.1	+1.5	+16.3	-48.9	-3.2

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Date Fri Sat Nov 1-2, 1957 Observer O. MR - Julian Day 2436.44
 ☉ 219 " 57.1 3604.4

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.	Hour Angle End
324-42	HD 211336	22 11.4	+56 33	3200	3300	10	6/1	18 00	18 18		121E
325-42	HD 213306 ^{5_{Exp}}	22 25.4	+57 54	"	"	"	6/2	18 22	18 40		121E
326-42	HD 213306	22 25.4	+57 54	"	"	"	6/2	18 42	18 59		02E
327-42	HD 211336	22 11.4	+56 33	"	"	"	6/1	19 04	19 21		026E
328-42	HD 201091	21 02.4	+38 15	"	"	"	6/5	19 41			
329-42	x Cyg	20 40.1	+45 08	Hβ, Hδ+Hδ	"	"	4/6	20 06	20 37		224W
330-42	55 Cyg	20 47.5	+45 58	Hβ, Hδ+Hδ	"	"	6/4	20 43	21 13		222W
331-42	ADS 15405A	21 50.8	+55 32	Hδ	"	"	6/4	21 21	21 33		222W
332-42	ADS 15405B	"	"	"	"	"	6/5	21 34	21 49		225W
333-42	ADS 15942H+B	22 25.1	+37 15	"	"	"	"	21 55	22 05		227W
334-42	Alt Cap	22 46.3	+64 51	"	"	"	6/7	22 13	22 25		
24127	C CAS	01 47.3	+63 10	I-28	103a-0 2.008	10.6	"	23 10	23 12	3	0:2E
"	"	"	"	"	"	"	"	23 15	23 16	"	0:08E
"	"	"	"	"	"	"	"	23 17	23 17.5	"	0:06E
335-42	"	01 57.5	+63 10	4960	3280	10	5/4	23 39	23 46		0:16W
336-42	"	"	"	45	"	"	5/5	23 50			

Dome Temp. $+54^{\circ}$ F.Focus 15.37

Dome Temp.

Transparency Conditions

Clear
Some Low haze

14

Mag Time S.T.	P.E.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
18		1 29 E	+56 50	5"	4.51	Fo	30"	4A/sec 2"/min	
40		1 21 E	+58 11	"	Var	Var	"	" "	
59		1 02 E	+58 11	"	"	"	"	" "	
1		0 26 E	+56 50	"	4.51	Fo	"	" "	
			+38 32	"	6.38	K5E	7)	" " 61 Egg Ncomp	
7		2:24 W	+45 06	"	1.35	A2Ia	"	1A/sec "	
3		2:52 W	+45 56	"	5.22	B3Ia	"	" "	
33		2:08 W	+55 36	"	5.5	B6	"	" " } +Δm	
49		2:25 W	"	"	6.0	B7?	"	" " }	
2 05		2:07 W	+37 11	"	6.8	B3	"	" " both comp.	
2 25			+64 20	"	7.1	B0.5 Trm	"	" " " "	
3 12		0:12 E	+63 26	0	3.2	B3 IV	12 ⁶	set 2 2 m	
3 16		0:08 E	"	"	"	"	12 ⁵	set 5 1 m } KMilled	
3 17.5		0:06 E	"	"	"	"	12 ⁵	set 8 1/2 m	
4		0:22 W	"	4"	"	"	30"	4A/sec 2"/min	
			"	"	"	"	"	1A/sec "	

Date Nov. 1-2/57 Observer -Hv Julian Day

[illegible]

Dome Temp.....

Transparency Conditions

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Focus.....

Dome Temp.....

ing Time
E.S.T.

	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
45	0030E	24° 00'	4"	3.81	B6 III	30"	1 A/wc 2"/min	
19	0004W	24 21		4.37	B6 V			
45	0030W	24 10		5.43	B7 IV			
08	0053W			5.63	B8 V			
36	0120W	24 25		5.85	B8 V		Field checks.	
							0300 Do not feel well enough to continue	
							N77.4 mc sc MTW STW S SW ME -38.5 -48.4 +13.2 +3.2 +16.3 -24.3 -1.9	

17

Date Nov 4-5, Mon-Tues, 1957 Observer O. M. R. - 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.E.	Hour Angle End
342-43	HD 211336	22 11.4	+56 33	5200	3300	10	6/1	18 29	18 37		0 SIE
343-43	HD 213 ^{80p} 306	22 25.4	+57 54		"	10	6/2	18 41	18 49		1 00 E
344-43	HD 213306	22 25.4	+57 54	"	"	"	6/2	18 50	18 58		0 51 E
345-43	HD 211336	22 11.4	+56 33	"	"	"	6/1	19 02	19 10		0 25 E
346-43	HD 211336	22 11.4	+56 33	"	"	"	6/1	19 12	19 20		0 15 E
347-43	HD 213306	22 25.4	+57 54	"	"	"	6/2	19 25	19 33		0 16 E
348-43	HD 213306	22 25.4	+57 54	"	"	"	6/2	19 34	19 42		0 07 E
349-43	HD 211336	22 11.4	+56 33	"	"	"	6/1	19 41	19 54		0 29 W
350-43	HD 211336	22 11.4	+56 33	"	"	"	6/1	19 54	20 01		0 28 W

Dome Temp. $+44^{\circ} F$

Focus.....

Dome Temp.....

Transparency Conditions *Cloudy at sunset*
Clearing suddenly.

18

[illegible]

19

Date Nov 5-6, Tues Wed / 57 Observer O -

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.E.	Star Angle End
351-44	HD 211336	22 11.4	+56 33	5200	3300	10	6/1	20 06	20 14		43 W
352-44	HD 213306 ^{Scap}	22 25.4	+57 54	"		10	6/3	20 18	20 26		41 W
353-44	HD 213306	22 25.4	+57 54	"		10	6/3	20 28	20 36		51 W
354-44	HD 211336	22 11.4	+56 33	"		10	6/1	20 40	20 48		17 W
355-44	HD 211336	22 11.4	+56 33	"		10	6/1	20 50	20 58		27 W
356-44	HD 213306	22 25.4	+57 54	"		10	6/3	21 02	21 10		25 W
357-44	HD 213306	22 25.4	+57 54	"		10	6/3	21 11	21 19		31 W
358-44	HD 211336	22 11.4	+56 33	"		10	6/1	21 23	21 31		200 W
359-44	HD 358	0 03.2	+28 32	5000		10	5/2	21 53			

Dome Temp. $+4.1^{\circ}$

Focus

Dome Temp.

Transparency Conditions

Cloudy Clearing quickly²⁰
at 19:30

ing Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0 14	0 43 W	+56 50	6	4.51	F0	30	4 A/sec 2" / min	PLEASE
0 26	0 41 W	+58 11	6	Var	Var	"	" "	REPLACE
0 36	0 51 W	+58 11	4	"	"	"	" "	DEC CLAMP
0 42	1 17 W	+56 50	4	4.51	F0	"	" "	TELESCOPE
0 58	1 27 W	+56 50	5	4.51	F0	"	" "	DRIFFTS.
1 10	1 25 W	+58 11	5	Var	Var	"	" "	J.B.O.
1 19	1 34 W	+58 11	"	"	"	"	" "	
1 31	2 00 W	+56 50	11	4.51	F0	"	" "	
		+28 50	7	2.4	A0	"	1 A/sec " X Clouds	
							SC MTW STW S SW ME No. 7. -48.6 +13.6 +0.7 +17.4 -28.9 -0.1	

Date Smith Nov 16-11 Observer Se - Julian Day 2436153
 Ⓢ 228 13 37.6 3620.2

Temp
Focus
Temp.

Home Temp. $+28^{\circ}\text{E}$

ocus. 15. 23.

Home Temp.

Transparency Conditions *Some cloud patches NE.*

22

ding Time
E.S.T.

our Angle
End

Declination

Seeing

Ptg.
Mag.

Sp.

Comp.

REMARKS

Quality

$+18^{\circ} 10'$ 0 8.3 ~~6.5~~ 4

Set 2 Se - HV
NG! Declination shi not in gear at.

$0^h 14^m$ $+54^{\circ} 41'$ 0 5.91 ~~6.5~~ 4-4-4

Set 2 Se - HV

$0^h 14^m$ " " " 4-4-4

Set 8 Clouds

fine

Date Tue-Wed Nov 12/13, 1957 Observer BK- Julian Day 175.5

[illegible]

Dome Temp.....

Focus.....

Dome Temp.....

Transparency Conditions

Some cloud after sunset
clearing, then cloudy again

24

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
19 46						30"	2 1/2" / min 1 A/sec	
6 58								
20 12								
20 28								
20 42								
20 46	132 W							
21 12	200 W							
clouded out.								
Nov. 13								
	mc	sc	mtw	stw	s	sw	ms	
	-35.5	-58.3	+5.4	+0.6	+18.0	-44.5	+1.1	
	-33.4	-58.4	+3.8	+0.7	+18.9	+0.4	-2.2	
	-31.1	+1.2	+3.8	+0.7	+20.1	+0.2	-4.1	
Nov. 20								
	-31.0	-4.1	+1.2	+0.8	+23.4	-3.6	-3.1	
Nov. 22								
	-29.9	-6.2	-1.3	+0.8	+20.9	-2.4	-2.9	
.. 25								
	-27.9	-10.2	-3.7	+0.8	+20.2	-1.0	-0.2	

25

Date June 26-27/57 Observer L-Hv Julian Day 2436169
 ☉ 244 22 32.5 3645.4

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.I.	Hour Angle End
24130	H.D. 199580	20 53.1	42 30	I-25	E-103A ₀	set 008	-1.2	18 40	20 40	3	3 50W
24131	" 20559	03 13.3	-01 18	"	"	"	-1.2	22 10	22 34	3	3 38E
24132	" 22879	03 35.3	-03 32	"	"	"	-1.3	22 39	23 39	4	3 07W
24133	" 15228	02 22.1	09 45	"	"	"	-0.6	23 43	00 23	4	3 04W
24134	" 19485	03 01.8	+2 5 13	"	"	"	-0.5	00 32	03 24	1	3 25W
	Focus 7	T	O.7B.								

Dome Temp. $+26^{\circ}\text{F}$ Focus 15.13

Dome Temp.

Transparency Conditions

9 days

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ding Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality																																
0403	3 50W	42 44	0	8.15	K ₁ IV	4-4-4	Set 2 O.H.V. haze toward end Spectacular!!! Aurora 21 ¹⁰ - 21 ³⁰	good																																
2 343	0 38E	-01 07	0	6.41	K ₁ IV	4-4-4	Set 8 O H.V.	good.																																
3 754	0 07W	-03 24	0	7.23	F ₉ V	4-4-4	Set 2 Se H.V.	good guiding																																
0 234	0204W	10 00	0	6.95	F ₅ V	4-4-4	Set 8 Se H.V.	fine																																
3 41	04 25W	25 26	0	8.7	G5	4-4-4	" 5 Spect Bin.	too weak																																
						15/10	" 9.	OK.																																
							1 P.H. + 4?																																	
							QUITE HAZY																																	
							<table><tr><td></td><td>MC</td><td>SC</td><td>MTW</td><td>STW</td><td>S</td><td>SW</td><td>ME</td></tr><tr><td>Nov. 27</td><td>-25.2</td><td>-13.2</td><td>-11.3</td><td>+0.6</td><td>+20.6</td><td>+1.9</td><td>-0.2</td></tr><tr><td>29</td><td>-24.2</td><td>-15.4</td><td>-18.1</td><td>+0.5</td><td>+20.1</td><td>+5.0</td><td>-4.8</td></tr><tr><td>Dec. 2</td><td>-22.6</td><td>-19.5</td><td>-38.4</td><td>+0.2</td><td>+20.0</td><td>+5.3</td><td>+2.3</td></tr></table>		MC	SC	MTW	STW	S	SW	ME	Nov. 27	-25.2	-13.2	-11.3	+0.6	+20.6	+1.9	-0.2	29	-24.2	-15.4	-18.1	+0.5	+20.1	+5.0	-4.8	Dec. 2	-22.6	-19.5	-38.4	+0.2	+20.0	+5.3	+2.3	
	MC	SC	MTW	STW	S	SW	ME																																	
Nov. 27	-25.2	-13.2	-11.3	+0.6	+20.6	+1.9	-0.2																																	
29	-24.2	-15.4	-18.1	+0.5	+20.1	+5.0	-4.8																																	
Dec. 2	-22.6	-19.5	-38.4	+0.2	+20.0	+5.3	+2.3																																	
							Mar 27/28 (Sun) 2 AM. 187																																	
							Dec 1/2 (Mon) 11 PM. 187																																	

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Date Dec 2/3/57Observer MR - 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.	How Angle Ind.
367-46	✓ hys	18 35.6	+38.45	H/5; H/5-H/5		10.	4/3	18:27	—		—
368-46	ADS 15405A	21 50.8	+37 15	H/5		"	6/4	19:15	—		—
369-46	" B	"	"	"		"	6/5	—	19:39		18W
370-46	ADS 16472A	23 00.9	+43 50	H/5		"	"	19:47	20:03		18W
371-46	ADS 36A	00 02.7	+58 18	H/5		"	6/6	20:27	20:38		18W
372-46	16 Jan	03 42.5	+24 10	H/5		"	6/4	20:56	21:07		18E
373-46	17 "	"	+24 00	H/5		"	5/5	21:12	21:23		18E
374-46	18 "	03 42.8	+24 44	H/5		"	6/1	22:13	22:24		18E
375-46	19 "	03 42.9	+24 21	H/5		"	5/8	22:29	22:40		18E
376-46	21 "	03 43.6	+24 26	H/5		"	6/4	22:46	22:56		18E
377-46	21 "	03 45.1	+23 57	H/5		"	5/3	23:05	23:20		18E
							-3.0				

Dome Temp. $+25^{\circ}\text{F}$ (00°HOM)

Transparency Conditions

28

Focus

Dome Temp.

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
-	-	+38 45	10"	0.04	A0 V	30"	1A/mc 2"/m Had to change chart - too late for change	
-	-	+55 36	5"	5.5	B6:	"	" " } Om	
19:30	2:18 W	"	"	"	"	"	" " }	
20:03	1:31 W	+43 50	"	6.3	B3	"	including ft. comp.	
20:39	1:04 W	+58 17	"	6.5	B3	"	v. ft comp outside field, another ft. comp in field	⊙
21:07	2:06 E	+24 09	"	5.43	B7 IV	"		
21:23	1:50 E	+23 58	"	3.81	B6 IV	"		
22:24	0:49 E	+24 42	"	5.63	B8 V	"	cldy interval	
22:41	0:34 E	+24 20	"	4.37	B6 V	"		
22:56	0:18 E	+24 24	"	5.85	B8 V	"		
23:00	0:04 W	+23 57	"	2.96	B7 III	"	Dark plunger like Clouds at midn. 1 P.H.	
							Clean & Cloudy interval till 2:00	
							then filling in	
Dec 4							mc -21.0 sc -21.4 mtr -49.2 sw -0.05 s +20.0 sw +5.8 me -1.1	

29

Date Wed-Thurs Dec 4/5 (1957) Observer PK - Julian Day 2436177
 ☉ 252 29 02.8 3652.9

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.I.	Exposure Angle and
378-47	HD 211336	22 11.3	+56 33	5213	-3300	10	6/1	18 32	19 08		
379-47	"			5213	-3300		6/1	19 36	19 45		
380-47	HD 211336	22 25.4	+57 54	3300	-5213		5/5	19 51	19 59		
381-47	"			5213	-3300		5/5	20 00	20 08		122
382-47	HD 211336			3300	-5213		6/1	20 16	20 24		149.3
383-47	"			5213	-3300		6/1	20 26	20 35		
384-47	HD 211336			3300	5213		5/5	20 41	20 50		
385-47	"			5213	-3300		5/5	20 50	20 59		208
386-47	HD 211336			3300	-5213		6/1	21 10	21 19		
387-47	"			5213	-3300		6/1	21 20	21 28		
388-47	HD 211336			3300	-5213		5/5	21 33	21 42		
389-47	"			5213	-3300		5/5	21 42	21 51		400
390-47	HD 211336			3300	-5213		6/1	21 56	22 04		450
4125	♂ Cas	01 05 0	+54 27	I-25	E103-00	008	-40	22 38	22 39	2	
								22 42	22 44		

Dome Temp. $+22^{\circ}\text{F}$ Focus 15.17

Dome Temp.

Transparency Conditions

Very good

30

ading Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
9:18							4 A/mu 2"/mi	
9:45							4 A/mu	
9:54								
10:04	2 32	58 13						
10:10	2 48 W	56 50						
10:11								
10:18								
10:18	3 08 W							
10:18								
10:20								
10:42								
11:15	4 00 W							
11:24	4 20 W							
11:24		154 55	1	46	A7 V		all 2 Counts + Dell	
11:26	2 14 W					12	7	

31

Date Dec 4/5 cont.

Observer ⁸²K - 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.
24136	2 Cas	01 47.2	+63 10	I-25	E103-a-0	008		23 27	23 28	1
24137	H.D. 51219	06 51.4	+01 18	"	"	"	-4.0	00 12	02 42	
24138	" 78552	09 03.8	-14 44	"	"	"		02 50	04 02	
	78552		09.13							

Dome Temp.....

Transparency Conditions

Focus.....

Dome Temp.....

nding Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
3:11		63 27	1	3.2	B3 IV		set 2 Stouffer	
3:11	2 (150)					12	" 2	
2:41	00 25 W	+01 13	0	8.12	G8 V	4-4-4	" 2 Se-HV.	line
4:02	00 25 E	-15 00	0	7.93	G2 V	4-8	" 8 " " 0355 Clouds.	too weak
						15/10	" 5	Focus bad
							2 P.H.	c to credit
Handswitch fell on floor and BROKE!!								
							mc sc mTw sTw S SW ME	
Dec. 6							-20.1 -24.0 +1.1 -0.1 +20.3 +9.1 -2.3	
							-17.3 -27.9 +21.8 +0.1 +19.7 +9.9 -0.4	
							-14.9 -30.3 +43.9 +0.4 +19.9 +9.7 -0.8	

Date Wed Thurs Dec 11/12, 1957 Observer Bk -

Julian Day.....2436184

① 259 35 34.0 3660.1

Dome Temp
Focus.....15
Dome Temp.

Four Angle
End

34

Room Temp.....

[illegible]

Date Thurs Dec 12-13/57 Observer L- Julian Day 2436185
 ☉ 260 36 34.1 3661.2

[illegible]

ome Temp. $+10^{\circ}\text{F}$

ocus. 15.09

ome Temp. $+9^{\circ}\text{F}$

Transparency Conditions Good

36

nding Time
E.S.T.

our Angle
End

Declination

Seeing

Ptg.
Mag.

Sp.

Comp.

REMARKS

Quality

9.55

133 W

62 55

0

8.16

G8 II

444

Set 2

0 H.V. prog.

Focus bad

0.55

053 W

01 46

0

7.31

K8 IV

444

" 8

" " "

" " "

" " "

" " "

" " "

" " "

" " "

clouds on these
rising in W toward end Don't Use.
of exp. then clouding over

2 14 3 +2

Dec. 13

mc	sc	MTW	STW	S	SW	ME
-14.9	-32.7	+1.9	-0.5	+19.8	+12.9	-0.3
-10.9	-37.4	-14.7	-0.6	+20.1	+16.6	+1.1
-8.7	-40.5	-18.1	-0.9	+21.5	+20.3	-3.5

Date Sun Dec 22-23/57 Observer Hdl

..Julian Day...2436195.

① 270 47 25.7 3668.5

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 End
{ 24142	# 176 BD 47° 782	3 06.1	+47 52	I-25	E103aD	008	+40	18 55	19 47	2	{ 130
{ 24143	# 581 BD 48° 903	3 16.6	48 16	"	"	"	+40	19 52	20 40	2	{ 55°
	Focus Test										
24144	# 692 BD 47° 821	3 19.1	48 08	"	"	"		20 52		3	

Dome Temp. 35
 Focus 15.26 (alt according to table)
 Dome Temp.

Transparency Conditions
 note re focus I believe the focus was set at 14.59 when I found it. If so, how long has it been set .50 too low? JKL
 Later - apparently focus very bad since Dec 4

Clearing after sunset

38

ending Time E.S.T.	our Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
47	E 136	48 01	0	6.7	G5	4-4-4	Set 2 X Per cluster some clonals	good
40	E 53 ^m	48 20	1	6.8	B9	4-4-4	" 9 " " " "	strong
			OTB			10/7	" 5 1/2	CT red
						74 A0 4	" 2 " " Clonals	

39

Date Tues Dec 24-25/57 Observer L Julian Day 2436157.

① 272 43 42.9 3668.8

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
24144	H.D. 221585	23 28.2	62 36	I-25	E-103A	Set 008	+2.8	18 24	20 14	3	238W
{ 24145	#176 B.D. 47 782	03 06.1	47 52	"	"	"	+2.8	20 29	21 09	11	006E
{ 24146	#581 " 48 903	03 16.6	48 16	"	"	"	+2.8	21 12	21 52	1	027W
24147	#692 " 47 821	03 19.1	48 03	"	"	"	+2.6	21 55	22 51	2	124W
	Focus Test			O.T.B.							

Dome Temp. $+32^{\circ} F$

Focus 15.26

Dome Temp.

Transparency Conditions

Good

40

Ending Time
E.S.T.

Sur Angle
End

Declination

Seeing

Ptg.
Mag.

Sp.

Comp.

REMARKS

Quality

20 14	2 38W	62 55	0	8.16	G8IV	444	Set 2	0 H.V. Prog.
21 07	0 06E	48 01	0	6.7	G5	444	Set 2	X Persie Plust.
21 52	0 27W	48 26	0	6.8	B9	4-44	" 3	" "
22 51	1 24W	48 13	0	7.4	A0	444	" 2	" "

15/10 " 8

3 PHn loaded + 8

Dec. 26	mc	Sc	MTW	STW	S	SW	ME
	-1.5	-58.7	12.7	-0.9	+21.7	-1.5	+1.3

Date: Sun - Mon Dec 19/30, 1957 Observer: TK

..Julian Day...2436202

① 277 55 27.3 3668.7

[illegible]

Time Temp. 26° F

Focus 1530

Time Temp.

Transparency Conditions clearing after sunset 42
Fair

Ending Time
E.S.T.

Sur Angle
End

Declination

Seeing

Ptg.
Mag.

Sp.

Comp.

REMARKS

Quality

2150

2 20W

7 26

0

8"2

K0

4-4-4

set 2

BK-UB

cloudy - 20^h30
Overcast at 2130

Dec. 30

mc	sc	2PH	+8	MTW	STW	S	SW	ME
+0.2	-54.4			-18.1	-0.9	+21.4	-1.6	-1.2
+2.8	+1.2			-20.4	-0.9	+21.7	+4.6	+1.8

Date. Fri Jan 3-4/58

Observer *Ad - DG*

..Julian Day...2436207.

© 283 01 09,2 3667,9

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.
24149	2 Per Cluster #692, BD 47821	3 19.1	48 03	I-25	E103aD	008	-9.3	18 41	19 49 2
24150	#735 47 828	3 20.0	47 52	"	"	"	-9.5	20 05	20 55 2
24151	#802 BD 48 924	3 21.4	49 03	"	"	016	-9.3	21 ¹⁸ 11	22 38
24152	HD 35 818	5 22.3	+12 50	"	"	008	-9.4	21 55	01 45
								must be 23 55 - Hcl	

Dome Temp.....0... F.

Transparency Conditions

Fini.

44

Spent some time trying to get on HD 11696
see Underfield book. Check to see what's wrong.

[illegible]

45

Date Wed Jan 8-9, 1958 Observer ^{Bk}Ad - H v Julian Day 2436212
 ☉ 288 06 47.6 3667.5

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.
→24153	ADS 3093 B	4 10.8	-7 49	I-12	E103.0	008	-11.8	18 24	19 04
24154	HD 48236	04 22.2	+15 49	"	"	"	"	22 20	01 30
→24155	ADS 8489 B	12 11.1	41 13	"	"	"	"	01 50	05 00
24156	HD 108076	12 19.9	38 52	"	"	"	"	05 16	06 30
	{ Focus } t. O 7 B.								

ome Temp. $+ 11^{\circ} \text{F}$

Transparency Conditions Good

46

12
667.5

[illegible]

Date Thurs. Fri. Jan 9-10, 1958 Observer O-

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
391-48	HD 211336	22 11.4	+56 33	5200	-3300	10	6/1	17 53	18 01		46W
392-48	HD 213306 ^{8 up}	22 25.4	+57 54	"	"	"	6/3	18 05	18 13		44W
393-48	HD 213306	22 25.4	+57 54	"	"	"	6/3	18 14	18 22		
394-48	HD 211336	22 11.4	+56 33	"	"	"	6/1	18 26	18 34		44W
395-48	HD 211336	"	"	"	"	"	6/1	18 34	18 42		
396-48	HD 213306	22 25.4	+57 54	"	"	"	6/3	18 48	18 56		42W
397-48	"	"	"	"	"	"	6/3	18 58	19 06		
398-48	HD 211336	22 11.4	+56 33	"	"	"	6/1	19 10	19 18		40W
399-48	HD 24760	3 51.1	+39 43	"	x2	"	5/4-3	19 44	20 09		47E
400-48	HD 20902	3 17.2	+49 30	"	x2	"	5/3-2	20 15	20 32		49W
401-48	HD 26630	4 07.6	+48 09	"	"	"	6/2	20 37	20 54		49E
402-48	HD 23230	3 38.4	+42 16	"	"	"	6/2-1	20 58	21 16		33W
403-48	HD 24760	3 51.1	+39 43	"	"	"	5/3	21 20	21 43		48W

Calib of Coarse 5 and 6 steps using

over

Dome Temp. $+25^{\circ}\text{F}$

Transparency Conditions

Clear

Haze low
on horizon

48

ocus.....

Dome Temp.....

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
8 01	2 46W		3"	4.51	FO	30"	4A/sec 2" / min	
8 13	2 44W	+58 12	3	Var	Var	"	" "	72
8 22		"	"	"	"	"	" "	
8 34	3 19W			4.51	FO	"	" "	
8 42		+56 48		"	"	"	" "	56
8 56	3 27W	+58 12	3	Var	Var	"	" "	
9 06		"	"	"	"	"		
9 18	4 04W	+56 48		4.51	FO	"	" "	
9 29	0 47E	+39 53	"	2.71	B0.5V	"	"	
9 32	0 09W	+49 42		2.28	F5I6			
9 54	0 19E	+48 16		4.7	G0I6	"	"	
9 16	0 32W	+42 26	"	4.3	F5II	"	"	
9 43	0 48W	+39 53		2.71	B0.5	"	"	

Mosby 5/3 Stand,

Date... Jan 9-10... (contd)

Observer

o - H v

Julian Day...2436213

© 289 07 55.1 3667.6

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.
404-48	HD 44990	6 19.8	+7 08	5200	^{x2} 3300	10	617	22 12	22 30	
405-48	HD 44109	6 14.9	+7 45	"	"	"	617	22 40	22 59	
406-48	HD 44109	"	"	"	"	"	616	23 00	23 19	
407-48	HD 44990	6 19.8	+7 08	"	"	"	617	23 24	23 42	
24157	B.D. +8° 14' 02" RW Mon	06 29.3	+08 54	I-12 1/2"	E1030-0	0.16	-4.7	00 17	02 17	
	Proc.,)	5.	0713							

ome Temp.....

ocus.....

ome Temp. +2.41

Transparency Conditions

Some haze

50

Ending Time
R.S.T.

our Angle
End

Declination

Seeing

Ptg.
Mag.

Sp.

Comp.

REMARKS

Quality

2 30

0 54E +7 04 3 Var Var 30"

2 59

0 20E +7 40 " 6.7 B9 "

3 9

0 01W " " " "

3 42

+7 04 " Var Var "

2 17

0 245W +08 50 0 0 ^{8.9}_{-11.5} A0 1-1-1 Set. 2
4/3 " 8

Clouds in SW coming in
Windy, Image Jumping,
Have Some Clouds

1 P.H. + 2.

MC SC MTW STW S SW ME
Jan. 10 +10.4 -3.2 +20.2 +0.1 +23.6 +0.9 -1.3

51

Date Sat-Sun Jan 11-12/57 Observer O 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
408-49	HD 211336	22 11.4	+56 33	5200	3100	10	6/1	18 11	18 19	312W
409-49	HD 213306	22 25.4	+57 54	"	"	4	6/1	18 24	18 32	311W
410-49	"	"	"	"	"	"	6/1	18 33	18 41	-
411-49	HD 211336	22 11.4	+53 33	"	"	"	6/1	18 45	18 53	346W
412-49	"	"	"	"	"	"	6/1	18 54	19 02	
413-49	HD 213306	22 25.4	+57 54	"	"	"	6/1	19 08	19 16	
414-49	"	"	"	"	"	"	6/1	19 07	19 25	
415-49	HD 211336	22 11.4	+56 33	"	"	"	6/1	19 30	19 39	431W
416-49	HD 4727	0 44.3	+40 32	"	"	" x 2	6/1	19 52	20 09	229W
417-49	HD 24760	3 51.1	+39 43	"	"	"	5/3	20 15	20 34	04E
418-49	HD 14947	2 19.5	+58 25	"	"	"	4/5	20 42	21 09	52W
419-49	HD 4727	0 44.3	+40 32	"	"	"	6/1	21 15	21 33	352W
420-49	HD 21447	3 22.4	+55 06	"	"	"	6/2	21 39	21 57	137W
421-49	HD 14109	6 14.2	+7 45	"	"	"	6/1	22 16	22 24	047E
422-49	"	"	"	"	"	"	6/1	22 27	22 35	
423-49	HD 44990	6 19.8	+7 08	"	"	"	6/2	22 40	22 48	023E

Dome Temp.....

ocus.....+10° F.....

Dome Temp.....

Transparency Conditions

Clear

52

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
18 19	3 12 W	+56 50	Bad	4.51	F0	30	4A/sec 2"/min 60	
17 32	3 11 W	+58 12	"	Var	Var		70	
18 41	-	"	"	"	"			
16 53	3 46 W	+56 49	"	4.51	F0	"		
17 02		"	"	"	"	"		
17 16				Var	Var		70	
17 25		+58 11		"	"		Some clouds about	
19 39	4 31 W			4.51	A0			
2 06	2 29 W	+40 51	"	4.37	B5	"	Stard Stars 61	
20 34	0 14 E	+39 53	10	2.71	B0.5	"	84	
21 01	1 52 W	+58 39	1	6.14	VR	"		
21 33	3 52 W	+40 50		4.37	B5		67	
21 57	1 37 W	+55 18	"	5.08	A1	"	63	
22 24	0 47 E	+7 43		6.7	B9	"	76	
22 35		"		"	"		11.7 6	
22 46	0 28 E	+7 05	"	Var	Var	"	" 61	

Date Sat-Sun Jan 11-12/57 ^{contd.} Observer 0 Julian Day 2436215

[illegible]

ome Temp.....

ocus.....

ome Temp.....

Transparency Conditions

Clear

54

Ending Time
E.S.T.

Hour Angle
End

Declination

Seeing

Ptg.
Mag.

Sp.

Comp.

REMARKS

Quality

22 57

+7 05

8

Var

Var

30

23 12

+7 43

11

6.7

B9

23 23

0 13W

11

11

11

11

14-

23 35

8

Var

Var

11

96

23 44

0 29W

+7 04

6

11

11

23 55

0 45W

+7 43

6

6.7

B9

11

00 05

11

11

11

11

11

00 14

1 36W

30 05

0

106

F7

1-1-1

rel 2

BK - URF

4/3

8

Fin
OK

2TH Plates needed

mc sc mTw STW S SW ME
Jan. 13 +13.1 -6.2 +46.9 -0.8 +23.9 +17.3 +3.6

⑤ 293 12 25.2 3667.3

Temp.

Temp.

ome Temp.....

Transparency Conditions

need some new faces in the dome
D.K. S.R.

Ending Time
E.S.T.

our Angle
End

Declination

Seeing

Ptg.
Mag.

Sp.

Comp.

REMARKS

Quality

22.22.5

2:14 W

 $+48^{\circ} 13'$

0

7.4

A O:

2-2-2

set 2. ~~X-Per~~ X-Per #692

5206

+8 51

8.9

AC

1-1-1

set RW Mon

0030 Clouds

4/3

117

0240 Hopeless

with strong
line
OK

 $1 \text{ P.H.} + 11$

Lost Boy & Plates

Mc SC MTW STW S SW ME

Jan. 15 +15.0 -6.6 -3.8 +0.8 +24.6 +18.2 +1.2

$$17 + 16.3 - 7.4 - 2.6 + 0.9 + 25.4 + 22.5 - 1.4$$

Date Sat Jun 18-19/58

Observer.....L - bk

Julian Day...2436222

① 258 17 59.0 3665.5

[illegible]

Dome Temp. +100°F
 Focus 12.90
 Dome Temp. 0°F

Transparency Conditions

Fair

58

Strong Wind seeing bad.

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
21 43	2 46W	26 11	0	8.52	F7V	2-22	Set 2. Se HV.	fin
20 51	2 28W	19 22	0	9.94	GoV	1-1-1	" 8 " "	fin
20 40	2 20W	30 14	0	10.09	B9	1-1-1	2 KATS Hins 567	fin
20 22	2 46W	29 36	0	9.78	G5	1-1-1	5 - " - 587	fin
						4/3	8	OK

274 + 8
 Jan. 20 mc sc mT_W sT_W S 6W ME
 +19.7 -8.3 +1.8 +0.9 +26.0 +17.5 +5.5
 22 +21.1 -9.5 +5.2 -1.0 +25.4 +17.5 +1.9
 23 -3.9 -0.6

59

Date Thurs Jan 23 - Jan 24 Observer Hd - Hv Julian Day 2436227
 0 303 23 19.2 3661.5

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P
{ 24165	# 735 BD 47° 828	3 20.0	47 52	I-12	E10300	008	-0.8	20 04	20 30	3
{ 24166	# 802 BD 48° 924	3 21.4	49 03	"	"	"	-0.9	20 34	22 34	3
24167	# 1082 BD 48° 949	3 27.3	48 19	"	"	"	-1.0	22 43	23 23	4
24168	HD 35818	5 22.3	+12 50	"	"	"	-1.0	23 34	00 51	4
24169	HD 84937	09 43.5	+14 14	"	"	"	-1.0	01 01	02 51	2
24170	" 88371	10 06.3	+24 15	"	"	"	-1.1	02 55	05 19	2
{ 7. 1. 4.			OT 13.							

Dme Temp. 22F

Hum.

Dme Temp. +18°F

Hd. & Bk. 2nd 1957/8
at 1831-1833

Transparency Conditions

Cloudy in W. earlier

Ending Time E.S.T.	Air Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
003	W1 ¹⁰⁰	48 04	0	6.8	B9	2-2-2	Sat 2 & Per. cl.	strong
023	W303	49 16	0	8.5	A3:	2-2-2	" 8 " "	strong
031	W346	48 30	0	7.0	A0	2-2-2	" 2 " "	strong
051	0321W	+12 53	0	7.7	A0	2-2-2	" 2 1/2 A Prog 0030 Thin Cloud	fine
0251	0190W	+13 58	0	8.65	F2 VI	2-2-2	" 2 Se H.V.	good
059	0305W	+23 59	0	9.03	G2 V	2-2-2	" 8 " " 0515 Cloud.	l'weak
						8/6	" 5	
							2 P.H. + 4	
							MC SC MTW STW S SW ME	
Jan. 24							+23.4 -8.1 +0.2 -0.1 +26.3 +2.7 -1.4	
27							+25.7 -9.3 +3.9 -0.1 +21.8 +0.1 +0.3	
29							+27.7 -9.8 -14.1 -0.4 +17.6 +1.8 +1.8	
31							+23.0 -8.6 -29.2 -0.6 +18.1 +2.8 -0.6	
Feb. 3							+21.6 -10.8 -35.6 -0.7 +28.7 +6.4 +6.9	
5							+22.4 -11.3 -34.8 -0.8 +28.9 +7.2 +3.9	
7							+35.3 -11.8 -39.8 -0.9 +30.1 +5.3 +3.7	

One Temp. 15°F

Transparency Conditions

62

us

One Temp. 14°F

Ending Time E.S.T.	Sur Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0133	4 00E	+8 52	0	8.9	A0	1-1-1	Ecl Bin - 1st set 2, (see under build)	fine
0354		+38° 36'	0	9.03	G2V	2-	Se H-V had great difficulty setting without Set 2 <u>no star light</u> clouds at 3.15 closed dome at 4:15	Nothing 8
						8/6	Set 9 Few test 1 PH + 2	OK.

63

Date Sat. Sun Feb 8-9 / 1958 Observer O- 1 Julian Day 1958000

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	Angle End
431-50	HD 13841	2 9.8	+56 34	5000	3900	10	6/6	18 38	19 45	179W
432-50	HD 23302	3 38.9	+23 48	HY			5/4	20 12	20 21	
433-50	HD 44109	6 14.9	+7 45	5200	3900	10	6/6	20 43	20 51	
434-50	HD 44990	6 19.8	+7 05	"			6/6	20 56	21 04	
435-50	HD 44990	"	"	"		"	6/6	21 07	21 15	310E
436-50	HD 44109	6 14.9	+7 45			"	6/6	21 30	21 37	18W
437-50	HD 54605	7 4.3	-26 14	"		10	5/3	21 52	22 04	100
438-50	HD 60629	7 30.4	-25 54	"		"	6/7	22 14	22 31	104E
439-50	HD 44109	6 14.9	+7 45	"			6/6	22 36	22 54	34W
440-50	HD 52497	6 56.3	+24 21	"			6/5	23 08		

ome Temp. $+14^{\circ}\text{C}$

Transparency Conditions

Clear

6.4

ocus.....

Clouds near Horiz.

ome Temp.....

Ending Time E.S.T.	our Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
1945	2 28W	+56 50	7	7.40		30	1A/sec 2"/min. + H ₂ X 4	
2021				3.69		"	" "	
2051		+7 43	7	6.7	B9	"	4 11.6 - 8.7	
2104		+7 06		Var	Var	"		
2115	0 10E		5	"	"	"	10 86	
2117	0 18W	+7 42		6.7	B9	"		
2204	0 00	-26 21	10	2.0	F8	"	" " 8 PM	
2231	0 04E	-26 03	1	6.5	A0	"		
2257	1 34W	+7 40		6.7	B9		Both ways. Clouds? 16	
			11	5.6	G5	-1		
Clouds + snow								
Feb. 10	mc	sc	mtw	stw	s	vs	mc	
	+37.9	-13.6	-46.7	-0.7	+29.2	+3.0	+8.2	
" 12	+39.2	-14.7	+2.1	-0.1	+29.3	+6.0	+0.2	

Date Wed-Thurs Feb 12-13 Observer Se - H Julian Day 2436247.

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.
441-57	HD 65583	7 ^h 54.3	+29° 31'	5000-3800	10	6/6	22.05		
52	HD 86728	9 55.3	+32 26	" "	6/4	23:30			
24173	{ HD 88371	10 06.3	24 15	I-12½	E103a-O	.008	-11.0	00 31	03 35
	{ Focus Test.	OJB							

ome Temp.

ocus.....

ome Temp. $+3^{\circ}F$

Transparency Conditions

66

Ending Time
E.S.T.

our Angle
End

Declination

Seeing

Ptg.
Mag.

Sp.

Comp.

REMARKS

Quality

03 35

02 40W

23 57

00

9.03

G2V

2-2-2

Set 2

8/6

" 8

0230 Cloud.

0300 More Cloud + Haze

Se-HV

5 pto bad,

weak

to violet

1 P.H. + 2

Date Thurs-Fri Feb 20/21, 1958 Observer BRC - H v Julian Day 2436255

[illegible]

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

ocus.....12.80

ome Temp.....

Transparency Conditions Broken night.

Opened at 9 o'clock.

70

Ending Time
E.S.T.

our Angle
End

Declination

Seeing

Ptg.
Mag.

Sp.

Comp.

REMARKS

Quality

052

01/2W

29 44

0

9.45

F3

1-1-1

set 2

KAFS peng.

fine

4/3

" 8

015.

Cloud after 1:00 AM.

1 P.H. +12

Feb. 21

SC

MTW

STW

S

SW

ME

-19.4

+10.6

+0.05

+33.5

+24.7

-2.1

Date Sat Sun Feb 22-23/1958 Observer A Julian Day 1007

[illegible]

ome Temp.....

ocus.....

ome Temp.....

Transparency Conditions Clear

72

Ending Time
E.S.T.

Hour Angle
End

Declination

Seeing

Ptg.
Mag.

Sp.

Comp.

REMARKS

Quality

1940

1 49W

+24 20

^{jumped}
8

4.29

15

30

1 Apr 2" / min

1010 volts

6

6.7

B9

"

4

q

n

CLOUDS

Feb. 24

MC

SC

MTW

STW

S

SW

ME

+54.2

-20.4

-6.9

-0.2

+32.9

+20.6

-1.9

Time Temp. 34°F

Transparency Conditions Good

74

Focus.....

Time Temp.....

Ending Time E.S.T.	Sur Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
20 57	0 29W	08 51	0	8.9 11.5	A0	1-1-1	Set 2 Spect. Bin	
22 52	1 10W	30 44	0	8.94	G2V	22-2	" 2 Se H.V.	
00 19	00 15W	23 57	0	9.03	G0V	22-1	" " <u>Slit at .008</u>	
02 09	02 00W	"	0	"	"	2-2-2	" " <u>0200 Cloud</u>	
						8/6	" 8 <u>0230 Foggy</u>	
1 PH + 9?								
Feb. 26	SC	S	MTW	STW	SW	ME		
	-20.7	+28.2	-18.8	-0.4	+22.3	-8.2		
Mar. 3	MC	SC	MTW	STW	S	SW	ME	
	+2.1	-23.1	-33.1	-0.8	+31.9	+27.0	-0.4	
" 7	+4.9	-23.4	+18.8	+0.05	+33.8	+29.6	+0.1	

Date Fri Mar 7-8/58 Observer Hd - Dg Julian Day 2436270.

[illegible]

76

Time Temp. 19°F.

[illegible]

77

Date Sat-Sun Mar 8-9, 1958 Observer O 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 East
447-55	HD 44109	6 14.9	+7 45	5200	3300	10	6/4	19 00	19 08	
448-55	HD 44990	6 19.8	+7 08	←	"	"	6/4	19 15	19 23	13E
449-55	HD 44990	"	"	→	"	"	6/4	19 25	19 33	13E
450-55	HD 44109	6 14.9	+7 45	←	"	"	6/4	19 37	19 45	14W
451-55	HD 44109	6 14.9	+7 45	→	"	"	6/4	19 47	19 55	15W
452-55	HD 44990	6 19.8	+7 08	←	"	"	6/4	20 01	20 10	19W
453-55	HD 44990	6 19.8	+7 08	→	"	"	6/4	20 11	20 19	14W
454-55	HD 44109	6 14.9	+7 45	←	"	"	6/4	20 24	20 32	12W
455-55	HD 57061	7 14.5	-24 47	HX x 6	25	5/3	20 52	21 19		
456-55	NGC 2362 #30	"	"	HX x 2	"	6/5	21 21	21 31		12W
457-55	HD 62509	7 39.2	+28 16	5200	3300	10	4/5	21 49	22 06	16W
458-55	HD 72779	8 29.6	+19 56	"	"	"	6/5	22 27	22 44	51W
459-55	HD 81947	9 26.8	-2 19	"	"	"	6/2-1	22 50	23 09	31W
460-55	HD 76943	8 54.2	+42 11	"	"	"	5/4	23 15	23 32	21W
461-55	HD 90839	10 24.2	+56 30	"	"	"	6/2	23 40	23 58	17W

Air Temp. +23° F

Transparency Conditions

Clear

78

Humidity.....

Air Temp.....

Ending Time EST.	Sur Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
19 08		+7 43	3"	6.7	B9	30"	4A/sec 2"/min 1020 v. 70	
19 23	0 13 E	+7 03		Var	Var	"	" " T Mon. 13 73	
19 33	0 03 E	"	"	"	"	"		
19 45	0 14 W	+7 43	"	6.7	B9	"	Recentre Dec. Screw Motion	66
19 55	0 25 W	"		6.7	B9	"		66
20 05	0 34 W	+7 03		Var	Var	"		77
20 19	0 44 W	"		"	"	"		77
20 32	1 02 W	+7 42		6.7	B9	"		62
21 01		-24 54		4.39			1 A/sec.	
21 31	1 02 W	"		8.21		"		
22 06	1 06 W	+28 04		2.15	KO M	"	4A/sec 2"/min 1225 81	
22 44	2 58 W	+19 41		7.25			" Funder ☺ N 85	
23 09	2 30 W	-2 36		5.02	F6 V			
23 32	2 22 W	+41 56		4.43	F5 X	"		
23 56	1 38 W	+56 11		5.33	F2 V		WIND MOVING TELESCOPE	

Date March 8/9 cont Observer - BK Julian Day 2436271
 ☉ 347 48 05.5 5596.7

[illegible]

Eme Temp.....

Fcus.....

Eme Temp.....

Transparency Conditions *Cir after 2 o'clock*

80

Ending Time E.S.T.	Hur Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0242	4 02 W	29 16	1	9.89	F5	1-1-1	prob 2 KAFS mag, 4 us 569	fine
052	1 55 W	29 26	0	10.00	F8	1-1-1	5 - " - 617 cloud forms S.	fine
						8/6	8 Mostly cloudy at 5.00 ct. Videl	
							2 PH +3	
							mc sc MTW STW S SW ME	
						Mar. 10	+7.8 -24.5 +32.2 +0.4 +36.1 +34.5 +2.1	
						12	-27.3 +28.6 +0.4 +38.2 +33.0 -6.1	
						17	-0.1 -26.6 +41.1 +0.6 +40.0 +36.6 +1.9	
						19	+2.1 -28.1 +41.9 +0.7 +4.0 +36.6 -0.1	
						21	+3.3 -28.7 +28.4 +0.2 +10.8 +36.1 -1.2	

Date Sat-Sun Mar 22-23/58 Observer O - DA Julian Day 2436285① 144 43.5 3571.2

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.
462-56	HD 44109	6 14.9	+7 45	5200	-3300	10	6/7	19 48	
463-56	HD 79469	9 09.2	+2 44	HY	x 4	10	5/6	20 57	21 25
464-56	HD 84870	9 43.1	+34 35	HY	x 4	10	6/7	21 32	21 58
465-56	HD 6640	9 40.2	+24 14	5200	-3300	10	5/5	22 04	22 21
466-56	^{a Leo} HD 87901	10 03.0	+12 27	"	"	10	5/1	22 39	22 58
467-56	"	"	"	HY	x 4	10	4/5	23 07	23 28
468-56	HD 91130	10 26.2	+32 54	"	"	10	6/5	23 36	23 59
{ 24187	HD 111515	12 44.6	+1 45	I-12	E103A0	.008	+2.4	00 25	02 25
{ 24188	HD 134113	15 3.0	+9 16	"	"	"	+2.4	02 36	05 12

Dne Temp. +34°F

Transparency Conditions

Clear, Sunny, Clear in W. 82

us

Dne Temp. +27°F

Ending Time EST.	Star Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
			1 1/2"	6.7	B9	30"	4 A/sec. 2" from Spectrophotometer all	
21 25	04 E	+2 28		4.0	A0	"	1 A/sec. 1" from Spectrophotometer 10.5	
21 58	006 E	+34 17		6.8	A3	"	" Thin clouds too. 12.5	
22 21	020 W	+23 56		3.5	G0 II		4 A/sec.	
22 58	034 W	+12 09		1.21	B7 V		4 A/sec.	
23 28	105 W	" "	3"	"	"		1 A/sec.	
23 59	112 W	+32 35	2	6.0	A5	"	"	
24 15	121 W	+1 24	0	8.76	G8 V	2-2-2	Set 2 HV 5C	fine
24 16	51 W	+9 06	0	8.84	F9 V	2-2-2	8 "	fine
						8/6	5 Focus Test	c to violet
							3 PH +0	
							Crosshair light of motor's eyepiece out of focus.	

83

Date Sun-Mon Mar 23-24/58 Observer O-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.
469-57	HD 44109	6 14.9	+7 145	5200	3300	10	6/7-6	19 30	19 38
470-57	HD 44990	6 198	+7 08	"	"	"	6/7	19 42	19 50
471-57	HD 44990	"	"	"	"	"	6/7	19 51	19 59
472-57	HD 44109	6 14.9	+7 45	"	"	"	6/6	20 10	20 18
473-57	HD 44109	"	"	5200	3300	"	6/6	20 19	20 27
474-57	HD 44990	6 198	+7 08	"	"	"	6/7	20 33	20 41
475-57	HD 44990	"	"	"	"	"	6/7	20 42	20 51
476-57	HD 44109	6 14.9	+7 45	"	"	"	6/6	20 55	21 03
477-57	HD 74280	8 38.0	+3 46	5200	3300	10	6/2	21 23	21 40
478-57	HD 76644	8 52.4	+48 26	"	"	10	5/4	21 46	22 04
479-57	HD 87901	10 03.0	+12 27	"	"	10	5/1	22 11	22 30
480-57	HD 74280	8 38.0	+3 46	"	"	10	6/1	22 35	22 53
481-57	HD 102647	11 44.0	+15 08	"	"	10	5/2	22 57	23 17
482-57	HD 74280	8 38.0	+3 46	"	"	16	6/1	23 22	23 40
483-57	HD 74280	"	"	"	"	10	6/2	23 42	23 59

Transparency Conditions

Clear

84

Dome Temp.....

Focus.....

Dome Temp.....

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
19 38	1 06W	+7 42	4"	6.7	B9	30'	4"/sec 2"/mm	
19 50	1 13W		3	Var	Var	"	"	
19 59	1 22W		"	"	"	"		
20 18	1 46W		"	6.7	B9	"		
20 27			"	6.7	B9	"		
20 41	2 05W		"	Var	Var	"		
20 51	2 14W		2	"	"	"		
21 03	2 31W +7 42		2	6.7	B9	"		
21 40	2 46W		3	4.11	B3V	"		
22 04	0 54W +48 11		2	3.30	A7V	"		
22 39	0 11W +12 09		2	1.21	B7V	"		
22 53	1 58W +3 32		3	4.11	B3V	"		
23 17	0 43E		"	2.21	A3V	"		
23 40	2 46W		"	4.11	B3V	"		
23 59	3 05W		"	"	"	"		

[OVER]

Date Mon. 23/24/58 Cont'd Observer -Hv Julian Day 2436286
 © 2 44 16.7 3569.0

[illegible]

Transparency Conditions

Good.

86

Time Temp.....

Focus.....

Time Temp.....

Ending Time
E.S.T.

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

0318	0156W	+10 49	0	9.35	G ₃ V	2-2-2	Set. 2 Se HV.	Good
0519	0011E	-07 59	0	8.65	G ₂ V	2-2-2	" 8 "	good
						8/6	" 5 "	c to violet

2 P.H.

Mar. 24	mc	sc	mtv	stw	s	sw	me
	+7.0	-20.6	+0.7	+0.2	+20.6	+31.3	-1.8
	+9.3	-31.2	-22.9	-0.1	-38.4	+20.4	-6.7

Date Mar 26-7 Wed-Thu Observer Se-Hv Julian Day 2436289
 ① 5 42 34.8 3562.2

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.
24191	HD 88725	10 ^h 8.9	+3 3.9	I-12	F103+D	set 008	+6.5C	21:30	23:40
24192	" 114606	13 06.4	+10 09	"	"	"	8.5	00 38	04 38
	Flare Test	07	13						

Time Temp. + 40°F

Transparency Conditions

Good

88

Humidity

WFA group show NGC 2397, Mon.

Time Temp. + 33

0120 Just heard Explorer II courtesy of Gus.

Ending Time E.S.T.	Star Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
20 40	1° 05W	+3° 23	0	8.4	B1V	2-2-2	Se HV set 2	fine
04 38	323W		0	9.53	G3V	2-2-2	Se Hv. " 8 This one very hard to find	fine
						8/6	" 5 Can't find HD 118742	OK
							1 P.H. + 1)	
							Galvanometer in Spect. Temp. Control won't stand still even when switched off.	
							mc sc mtw stw s sw mg	
March 28							+1.8 -31.5 -17.7 -0.5 +51.5 +31.7 -8.5	

Date Mar 30/31/58 Observer HJ Julian Day 2436293.
 ① 9 39 49.4 3552.8

[illegible]

Time Temp. $+39^{\circ}$

Acus. 12.90

Time Temp. 12.90

Transparency Conditions Good.

90

Galvanometer in W. Bridge not working properly
Switched off at 0430

Ending Time E.S.T.	Sur Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0454	0145W	66 41	0	9.41	G6V	2-2-2	Set 2 Se Hv 8/6 " 8	fine OK.
							2 P.H. + 8	
							mc sc mTW STW S SW ME	
							Mar. 31 +4.3 -32.3 -2.9 -0.1 -48.0 +35.4 -1.2	

a1

Date Mon Tues Mar 31 April 1958 Observer MR - H Julian Day 2436294.
 ☉ 10 39 02.2 3350.5

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.
484-58	α Gem A.	07 ^h 32.0 ^m	+31° 59'	H/3	H8	20	5/1-4/2	21:01	
485-58	ρ UMa	10 57.4	+56 36	H8		"	4/6	22:02	
486-58	ϵ UMa	8 56.5	+48 12	H8		"	5/3	22:20	
487-58	δ Leo	11 12.0	+20 45	H8		"	5/2	22:47	
488-58	β Leo	11 47.0	+14 48	H8		"	5/1	23:07	
489-58	γ UMa	11 51.7	+53 55	H8		"	5/2	23:26	
490-58	δ UMa	12 13.5	+57 15	H8		"	5/3	23:40	
491-58	η UMa	12 46.0	+49 31	H8 X		"	4/5	23:58	
	"							00 09	
	"							00 16	
24194	HD 114606	13 06.4	+10 09	I-12 $\frac{1}{2}$	E _{103a-0}	Set. .008	6.5 6.0	0046	0446
	7000	7.4	(0) B.						

Transparency Conditions

hazy, possibly inferior 92

Time Temp.....

Focus.....

Time Temp.....

Ending Time
E.S.T.Star Angle
End

Declination

Seeing

Ptg.
Mag.

Sp.

Comp.

REMARKS

Quality

+ 31 59

1.97 A1V 30"

1 A/sec, 2"/min, slit 20. A 4960-4960
4540-4560

—

2.34 A1V "

" " " not in do list cleaned slide and
put in new chart

+ 48 12

3.31 A7V "

" " " D 4510-4250

+ 20 45

2.70 A4V "

" " " D 4509-4210

+ 14 48

2.23 A3V "

" " " D 4510-4210

+ 53 55

2.44 A0V "

" " " D 4510-4250

+ 57 15

3.37 A3V "

" " " hioL 4510-4230

+ 49 31

1.67 B3V "

" " " D 4521-4240

4520-4204

4204-4523

+ 46 356W 109 50

0

9.35 G3V

2-2-2

Set 2 Set H.v.

8/6

" 8

1 P.H. + 8

good
stored
slightly

93

Date Tues-Wed April 1-2, 1958Observer O-HrJulian Day 2436255

① 11 38 12.7 3048.4

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.
492-59	HD 44109	6 14.9	+7 45	6200	3300	10	6/6	19 35	19 43
493-59	HD 44990	6 17.8	+7 08		←	"	6/7	19 47	19 55
494-59	HD 44990	"	"		→		6/7	19 57	20 05
495-59	HD 44109	6 14.9	+7 45		←		6/7	20 01	20 17
496-59	SKY				→	"	6/7	20 18	20 26
497-59	NGC 2392	¹⁹⁵⁰ 7 26.2	+21 02	Counter 2500	5216	40	6/7	20 34	20 47
498-59	"	"	"	5200	4350	10	6/7	20 48	20 57
499-59	ε Leo	9 40.2	+24 14	5200	3300	10	6/1	21 03	21 21
500-59	HD 76644	8 52.4	+48 26		"	10	5/4	21 26	21 44
501-59	HD 84870	9 43.1	+34 35	HR	4	20	6/6	21 53	22 22
502-59	HD 87901	10 03.0	+12 27	"		20	4/4	22 27	22 51
503-59	HD 91130	10 26.2	+32 54	"		20	6/4	22 56	23 22
504-59	HD 111469	12 44.4	+28 06	"		20	6/3	23 29	23 55
24195	" 158226	17 23.0	31 10	I-12 ¹ / ₂	E103a-0	Set 00	+7.5	00 38	02 50
24196	" 160693	17 36.2	37 16	"	"	"	7.5	02 59	05 01
	Focus)								

ome Temp... +48°F

Transparency Conditions

Clear. Some haze

94

ocus

ome Temp...

8.4

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
19 42		+7 43	2	6.7	B9	30"	4+/-sec 2"/min 900 m.	
19 55	54W	+7 04		Var	Var	"	" " 125 m 1" H 200	
20 05	2 03W	"	"	"	"	"		
20 17	2 21W	+7 41	"	6.7	B9	"	" "	
20 26								
20 47		+20 59		Plantain	Nolana	"	" "	
20 57		"		"	"			
21 21	0 00	+23 57	3	3.5	G0II	"	" "	
21 44	1 09W	+48 10	"	3 30	A7V	"	Standard Star	
22 22	0 52W	+34 16	3	6.8	A3	"	1A/sec +SKY	
22 51		+12 09	"	1.5	B6	"	"	
23 22	15 W	+32 35	"	6.0	A5	"	"	
23 55	0 30E	+27 44	"	6.0	A0	"	"	
02 50	2 12E	+31 13	0	9.09	G1V	2-2-2	Set 2 50 Hv field p 7 d.	strong
05 01	2 01E	3, 12	0	2.12	G0V	2-2-2	" 9 "	pin
						/	2 PH. + 6.	slightly

Apr. 2

mc	sc	MTW	STW	S	SW	ME
+6.0	-31.8	+3.2	-0.1	+45.9	+36.8	-4.9

Date Wed April 2-3/58 Observer L-H Julian Day 2436296
 ☉ 12 37 21.1 3546.2

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P
24197	HD 74462	08 39.1	67 49	I-12½	E103A _o	Set 008	10.6	19 46	22 30	4 11W
24198	BD. 47° 1806	10 38.1	46 49	"	"	"	10.5	22 36	02 46	4 1230
24199	HD 159482	17 29.9	+06 04	"	"	"	10.5	03 01	05 05	4 15
	Focus Test		07B							

Home Temp. $+45^{\circ}\text{F}$

Transparency Conditions

Good.

92

Focus

Home Temp. $+38^{\circ}$

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
22 30	2 11 W	67 35	0-1	9.71	G ₅ IV	2-2-2	Set 2 O-H.V.	fine
02 46	5 43 W	46 28	1	9.74	G ₁ IV	2-2-2	" 8 O-H.V.	fine
05 05	00 1 E	+06 01	0	8.95	G ₀ V	2-2-2	" 2 Set H.V.	good.
						8/6	" 8	CG red slightly
							2 P.H. + 4	
						April 3	MTW STW SW ME +29.1 +0.4 +37.8 -7.3	

Home Temp.....

Focus.....

Home Temp.....

Transparency Conditions

Home High

98

Sat Apr 5. Cloudy. 200 visitors 14th-Bk
showed telescope twice. Lectured at 9.00 p.m.

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
00 39	129 W	+48 24	0	9.12	F5	1-1-1	KAFS 75	fine
03 20	127 E	-08 00	0	8.65	G2 V	2-2-2	Set 2 Sc Hv	too weak.
						8/6	" 8 0330 Sky becoming much worse	24
								c 6 red
								slightly
							1 P.H. + 3.	
							ME SC MTW STW S SW ME	
							April 7 +10.6 -33.3 +30.8 +0.5 +33.3 +40.3 -7.1	

Time Temp. $+24^{\circ}\text{F}$

Transparency Conditions Good. / Mon Apr 7 - clouded out at 100

very bright fireball reflected by
numerous glass cells. H. saw it
MR

Poor at 0130 AM. Hr

Ending Time E.S.T.	Aur Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
22 44	N 154	44 25	0	9.72	G8	1-1-1	SAT KAFS Prog. Full check	good
01 34	348W	45 03	00	9.76	K5	1-1-1	" 8 " " " "	good
04 47	0013W	31 06	0	9.09	G1V	2-2-2	" 2 Sc Hvr Previous plate (24195) is wrong star I think.	strong
						8/6	" 8	
							2 P.H. Plates Needed	
							mc sc mTw STW S SW ME	
							April 9 +12.6 -33.3 -35.9 -0.1 +39.9 +40.9 -4.8	

Date Wed. Thurs April 9-10, 1958 Observer O-HV Julian Day 2436303
 ☉ 19 30 24.2 3533.2

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	Angle Incl
505-60	HD 44109	6 14.9	+7 45	5200	-3300	10	6/7	19 49	19 57	32W
506-60	HD 44990	6 19.8	+7 08	←		"	6/7	20 00	20 08	37W
507-60	HD 44990	6 19.8	+7 08	→		"	6/7	20 09	20 17	48W
508-60	HD 44109	6 14.9	+7 45	←		"	6/7	20 20	20 28	33W
509-60	HD 87901	10 03.0	+12 27	5200	-3300	"	4/6 5/1	20 33	20 53	20E
510-60	HD 76644	8 52.4	+48 26	"		"	5/4	21 04	21 22	19W
511-60	HD 102647	11 44.0	+15 08	"		"	5/3	21 29	21 47	26E
512-60	HD 102870	11 45.5	+2 20	"			6/2	21 51	22 09	46E
513-60	HD 87901	10 03.0	+12 27	"		"	5/1	22 15	22 32	20W
514-60	HD 103287	11 48.6	+54 15	"		"	5/3	22 33	22 55	25E
515-60	HD 87901	10 03.0	+12 27	"		"	5/1	23 00	23 18	23W
516-60	α Vir	13 19.9	-10 38	"		"	5/1, 4/5	23 25	23 42	5E
517-60	α Vir	13 19.9	-10 38	5200	+4000		4/5	23 13	23 48	
518-60	HD 87901	10 03.0	+12 27	"		"	5/1	23 54	00 11	20W
24205	BD +45° 2134	13 46.8	44 52	I-12 1/2	E103a-O	016	+2.0	00 43	03 23	20W
24206	HD 130988 Focus Test	14 46.0 OTB	45 18	"	"	"	"	03 29	04 49	

Dne Temp. +37° FTransparency Conditions Clear

102

Feus.

Dne Temp.

Ending Time E.S.T.	Star Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
19 37	2 32 W	+7 41	5"	6.7	B9	30	4 Apr 2"/min	++
20 00	2 39 W	+7 03	"	Var	Var	"	"	++
20 12	2 48 W	"	"	"	"	"	"	
20 27	0 03 W	+7 40	"	6.7	B9	30	"	
20 53	0 20 E	+12 08	"	1.21	B7V	"	" Reverse 5/3 and 5/1	
21 22	0 19 W	+48 08	"	3.30	A7V	"	"	
21 47	0 06 E	+14 45	"	2.21	A3V	"	MC SC MTW STW S SW April 11 +14.1 -33.1 -22.8 +0.4 +38.5 +44.1	
22 09	0 46 E	+1 58	"	4.17	F8V	"	"	ME +0.9
22 32	0 20 W	+12 09	"	1.21	B7V	"	"	
22 55	0 03 E	+53 57	"	2.44	A0V	"		
23 18	2 05 W	+12 07	"	1.21	B7V	"	"	
23 42	2 47 E	-10 58	"	0.67	B1V	"	"	
23 42	"	"	"	"	"	"	"	
20	3 00 W	+12 08	"	1.21	B7V	"		
03 30	2 27 W	44 35	0	9.90	F9	1-1-1	Set 2 KAFS Field Chk. <u>Var</u> /Cloud	fin
04	2 26 W	45 03	0	9.17	G5	1-2	" 8	fin
						4/3	" 5	fin

Date Sat. April 12-13/58 Observer L Julian Day 2456306
 ☉ 22 26 58.8 3528.1

[illegible]

ome Temp. 44°F

Transparency Conditions

194

ocus.....

Approx 200 visitors. Showed llanus. N, L

ome Temp. 40°F

Ending Time
E.S.T.

our Angle
End

Declination

Seeing

Ptg.
Mag.

Sp.

Comp.

REMARKS

Quality

0223

2 24W

28 54

0

9.76

K5

2-2-2

Set 2.

K.A.F.S.

weak

0440

0 04E

-07 55

0

8.26

GOT

2-2-2

" 8

Se HV

fine

2 PH₀ + 10

105

Date Sun - Mon. 1958 April 13/14 Observer BK -Julian Day 2436307

☉ 23 25 46.9 3526.3

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.
24209	} BB +44°1898	09 36.6	+44 18	I-12	E103-a-O	sel 016	12°0	19 48	21 48
24210		10 24.1	+30 01	"	"	"	"	21 52	23 12

ome Temp. 52°

ocus. 12.90

ome Temp.

Transparency Conditions Good; some cloud in NW 106

Ending Time
EST.

our Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
1 17W	44 01	1	9.85	F9	1-1-1	set 2 KAFS, Hous 307	fine
1 54W	29 43	1	9.66	F6	1-1-1	8 " 579 23.10 star gone cloud from SW	fine
						1 PH +10	
						mc sc mTw sTw S SW ME	
						Apr. 14 +16.0 -28.7 -15.8 +0.5 +33.6 +47.0 -7.3	

107

Date Mon. Tues April 14/15 1958 Observer MR - BK Julian Day 2436308

⊙ 24 24 33.2 3524.5

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.
519-61	ϵ UMa	18 ^h 56.5 ^m	+48° 12'	H5 x 2	"	10	5/5	20:28	
520-61	δ Leo	10 06.1	+12 11	"	"	"	4/6	21:07	
	"	"	"	"	"	20	4/4	21:20	
521-61	η Leo	10 05.2	+16 58	"	"	"	5/4	21:35	
522-61	ρ Leo	10 30.6	+9 31	"	"	"	"	21:50	
523-61	β Leo	11 46.9	+14 49	"	"	"	4/6	22:07	
524-61	ρ UMa	10 59.4	+56 36	"	"	"	"	22:25	
525-61	δ UMa	11 57.5	+53 57	"	"	"	"	22:40	
526-61	K Tor	12 31.8	+70 00	H5 x 2 + 4	"	"	5/4	22:58	
527-61	η UMa	13 46.0	+49 31	"	"	"	4/5	23:18	
528-61	α Vir	13 23.1	-10 57	"	"	"	4/4	23:53	
21211	} HD 114059	13 52.9	+29 57	I-12	E103-a D	010	12.8	01 05	03 25
24212		15 12.9	+59 49	"	"	"	"	03 44	05 04
	Focus Left	O.T.B.							

Home Temp.

Bright aurora at 22^h & after 1^h all night.

Dr Ross & family

108

[illegible]

109

Date Tues. April 15-16/58 Observer L - Bx Julian Day 2436309
 ☉ 25 23 17.7 3522.7

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	Angle and
24213	{ BD+45 1753	09 36.7	45 30	I-12½	EY03A0	Set 016	+17.2	20 05	22 25	201W
24214		11 33.2	44 39	"	"	"	+17.0	22 30	01 30	10W
24215	{ HD 131447	14 48.6	+44 39	"	"	"	16.8	01 37	03 27	55W
24216		15 11.5	+60 19	"	"	"	"	03 33	04 53	300W
	Focus Left	O.T.B.								

Dome Temp. 62°F

Transparency Conditions

Fair

110

ocus

Dome Temp. 50°

Aurora from 1 o'clock on

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
22 25	2 01W	45 15	1	9.87	B8	1-1-1	Star 2 K.A.F.S.	fin
01 30	3 10W	44 18	1	9.65	F7	1-1-1	" 8 K.A.F.S.	fin
03 00	1 55W	44 24	1	9.88	G8	1-1-1	2 " Hins 353	fin
04 53	3 00W	60 06	1	9.60	A8	1-1-1	5 " 134	fin
						4/3	8	
							4PH +4	
							mc sc mfw stw s sw me	
April 16							+19.1 -33.8 -22.8 +0.3 +32.2 +44.4 -0.9	

Dirt on the slit

① 26 22 00.4 3520.9

[illegible]

Home Temp. 56°F

ocus.....

Home Temp.....

Transparency Conditions *Hazy*

112

20.9

Ending Time
E.S.T.

Hour Angle
End

Declination

Seeing

Ptg.
Mag.

Sp.

Comp.

REMARKS

Quality

02 46

1 17W

45 20

00

9.68

F8

1-1-1

4/3

Set 2 K.A.F.S. clouds from ^{trans and} guiding
02.25 star gone at 02 46
3 PHO + 4
OK.

Date Thurs Apr 17-18/58 Observer Hd - Bk Julian Day 24363.11
 @ 27 20 41.3 3518.9

[illegible]

ome Temp. 68F

Transparency Conditions hazy

114

ocus

ome Temp.

8.9

Ending Time E.S.T.	our Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
21 56	W 137	44 27	2	9.39	A5	2-2-2	Det 2 KAFS	lweak
00 04	W 040	44 16	2	9.27	F6	2-2-2	" 8 " cloudy - closed	lweak
							2 PH + 4	
							MTW ME	
						April 18	-39.2 -3.7	

Date Fri Sat April 18-19, 1958 Observer O. Julian Day 19580418.5

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.
529-62	HD 52497	6 56.3	+24 21	5200	→ 3300	10	6/5	19 55	20 13
530-82	HD 87901	10 03.0	+12 27		"	10	5/1	20 16	20 34
531-62	NGC 2392	¹⁹⁵⁰ 7 26.2	¹⁹⁵⁰ +21 02		"	35	6/6	20 44	21 01
532-62	"	"	"	5200	-4770	35	6/6	21 02	21 16
533-62	NGC 4374	12 22.5	+13 09	5200	-	35	6/7	21 27	21 34

Time Temp.....

Transparency Conditions *Clouds in Wand N.* 115
Se said 350 later - No!
 Saturday April 19 : (250) visitors. Cloudy.
 Lecture + Demonstration of telescope
Se, Dg, Bk.

Ending Time E.S.T.	Pour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
20 13	2 41W	+24 17	8"	5.6	G5II	30	4 A/sec 2"/mm	
20 34	0 04E	+12 10	"	1.21	B7V	"	" " " " ST Star	
21 01	3 02W	+21 -00	"	8		"		
21 16	3 19W	"	"	"	"	"	1 A/sec 2"/mm	
21 34				10			4 A/sec Elliptical Galaxy - Clouds	
							MC SC MTW STW S SW ME	
April 21							+22.5 -33.1 +9.3 -0 ^m .2 +26.1 +43.9 +1.1	
23							+24.3 -33.0 -26.9 -0 ^m .5 +23.2 +42.7 -4.2	
25							+1.0 -32.2 -49.8 -1 ^m .0 +20.6 +44.7 -3.2	
Saturday, April 26 - 250 visitors. Shown Uranus & xCM								
							MTW ME	
Apr. 28							-25.9 -0.2	MR-BK

117

Date Tues Apr 29-30/58 Observer HD - H5 Julian Day 2436323

☉ 39 02 14.8 3494.3

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	Angle Ind
24220	HD 82069	9 24.6	30 00	I-12	E10320	016	+10.0	20 00	22 00	12.44
24221	HD 101674	11 36.9	44 42	"	"	"	10.0	22 12	23 42	2.15
24222	HD 131381	14 48.2	45 35	"	"	"	+10.0	23 47	01 57	20 W
24223	HD 172403	18 34.9	-09 14	"	"	"	"	02 21	04 10	23 E
	Stars	ext.	07 B							

Transparency Conditions

118

Ime Temp.....

[illegible]

Date *Wed-Thurs-April 30-May 1* Observer *O-Hr* Julian Day *2436324*
 ☉ *40 00 29.1 3492.3*

[illegible]

120

Sat May 3, 1958 - 160 visitors
Cloudy.

Time Temp..... 42° F.

Ending Time E.S.T.	Bur Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
20 16	26 W	+12 11	4"	1.21	B7V	30"	4A/200 2"/min. 900 v.	
20 39	59 W	+48 11	"	3.30	A7V	"	" "	
21 02	34 E	+53 57	"	2.44	A0V	"	" "	
21 26	04 E	+14 47	"	2.21	A3V	"	" "	
21 47	57 W	+12 09	"	1.21	B7V	"	" "	
22 4	02 E	+26 51	"	2.21	A0V	"	" "	
22 39	48 W	+12 09	6	1.21	B7V	"	" "	
23 02	14 E	+26 51	4	2.21	A0V	"	" "	
23 25	36 W	+12 09	6	1.21	B7V	"	" "	
23 49	40 E	+2 02	5	3.74	A0V	"	" "	
00 12	04 E	+26 51	"	2.21	A0V	"	" "	
04	230W	+29 41	0	9.99	F5	1-1-1	Set 2 KAFS Trouble w/guiding eye. 1 weak May 2 mc sc mtrw stw s +7.7 -30.7 -37.9 -1.0 +12.7 4/3 " 5 2 P.H. loaded. PL 15 Mailed. OK. +48.7 -4.3	

Fri - Sat

Date May 9-10

Observer..... Se - Dg

Julian Day...2436333.

① 48 43 20.2 3478.4

[illegible]

122

Time Temp. + 33° F

478.4

Ending Time E.S.T.	Air Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.		REMARKS	Quality
23 ^h 10	11 ^m W	+1° 25	0	8.76	98V	2-2-2	set 2	Se HV	lucal
23 ^h 57	24 ^m W	+66° 42	0	9.41	66V	2-2-2	set 8	Se HV	fine
						8/6	set 5	Four test	OK
								1 P.H.	around 3.10

123

Date Sun May 11-12 1958Observer BK - OJulian Day 2436335

O 50 39 15.8 3475.8

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.
24227	HD 114174	13 03.8	+5 46	I-25	E103-a0	set 000	13.8	20 34	21 34
24228	ADS 9908	15 58.9	+11 42	"	"	"	14.0	21 40	00 20
545-64	HD 182487	19 19.8	+42 46	5200	→ 3300	20	6/6	00 44	00 53
546-64	^{RR Lyr} HD 182989	19 22.3	+42 36	←		20	6/2 H	00 58	01 06
547-64	HD 182989	19 22.3	+42 36	→		"	6/3 H	01 08	01 16
548-64	HD 182487	19 19.8	+42 46	←		"	6/1 H	01 21	01 29
549-64	AD 182487	"	"	5200	→ 3300	"	6/1 H	01 30	01 39
550-64	^{RR Lyr} HD 182989	19 22.3	+42 36	←		"	6/3 H	01 46	01 55
551-64	HD 182989	"	"	→		"	6/3 H	01 57	02 05
552-64	HD 182487	19 19.8	+42 46	←		"	6/1 H	02 10	02 18
553-64	AD 182487	"	"	5200	→ 3300	"	6/1 H	02 20	02 28
554-64	^{RR Lyr} HD 182989	19 22.3	+42 36	←		"	6/3 H	02 35	02 43
555-64	HD 182989	"	"	→		"	6/3 H	02 45	02 53

Dome Temp. 54°
 Focus 15:32
 Dome Temp.

Transparency Conditions

Good

124

Hd-Bk

Sat May 10 220 visitors.
 Cloudy 9-10, showered till 9 lectured.
 Clear 10-11. showered 4

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
	1						Changed to I-25 - I-25 was tilted 12:89 set I-25 tilt 23.15; focus 15:25	
00:20	0 32E	5 25	0	7.47	G5IV	4-4-4	Focus 15:50, supposed tilt 15:32 set 5 Se-HV I-3, 3962-4140	Weak
01:25	0 40E	11 32	0	8.4	K2	4-4-4	5 Bk-VB Focus reset, 4154-4425 (0115)	Weak
00:53	3 29E	+42 54	7"	7.02	A0	30	3 RH + 8	
01:06	3 17E	+42 42	"	Var	Var	"	4A/sec 2"/min 900v	
01:16	3 08E	"	"	"	"	"		
01:29	2 52E			7.02	A0	"		
01:39	2 42E			7.02	A0	"		
01:55	2 29E	+42 45		Var	Var	"		
02:05		"	"	"	"	"		
02:19	2 02E	+42 55	"	7.02	A0	"		
02:29		"	"	"	"	"		
02:48	1 40E	+42 45	"	Var	Var	"		
02:55		"	"	"	"	"		

[contd.]

Date Sun-Mon May 11-12, 1958 Observer O Julian Day 151.5

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.
556-64	H-D 182487	19 19.8	+42 46	5200	← 3300	20	6/1 H	02 58	03 07
557-64	H-D 182487	"	"	→		"	6/1 H	03 08	03 16
558-64	KR _L H-D 182989	19 22.3	+42 36	←		"	6/3 H	03 23	03 31
559-64	H-D 182989	"	"	→		"	6/3 H	03 32	03 40
560-64	H-D 182487	19 19.8	+42 46	←		"	6/1 H	03 45	03 53

Dome Temp.

Transparency Conditions *Clear*

126

Focus

Dome Temp.

Ending Time
E.S.T.Hour Angle
End

Declination

Seeing

Ptg.
Mag.

Sp.

Comp.

REMARKS

Quality

03 07

1 14 E

+42 56

10"

7.02

A0

30

4A/sec 2"/mm

03 08

1 04 E

"

"

"

"

"

03 31

0 52 E

+42 45

"

Var Var

"

03 40

"

"

"

"

"

"

03 53

0 27 E

+42 56

"

7.02 A0

"

SC

MTW

STW

S

SW

ME

May 13
MC

-30.9

-26.2

+0.4

+18.0

-1.0

-2.3

May 15
16

+18.8

-31.9

-4.8

-0.3

+14.7

+1.5

+6.8

+3.9

-0.2

+26.7

+7.3

127

Date Fri-Sat, May 16/17, 1958 Observer Jrk - D. Mai Julian Day 2436340

0 55 28 42.0 3469.3

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.	Angle and
24229	Ass 9908 Focus Test	15 58.9 C.T.B.	+11 42	F-25	E102-a-0	Self 008	22.0	22 00	00 30	1	11E
561-65	HD 121370	13 49.9	+18 54	5200	↔ 3300	10	5/4	00 46	01 05		232W
562-65	HD 131156	14 46.8	+19 31		"	10	6/3	01 12	01 30		101W
563-65	HD 157214	17 16.9	+32 36		"	10	6/4	01 35	01 55		204E
564-65	HD 172167	18 33.6	+38 11		"	10	4/3-2	02 04	02 23		252E
565-65	HD 188350	19 49.6	+00 01	5200	→ 3300	10	6/4	02 29	02 37		55E
566-65	HD 187929 ^{in Ang.}	19 47.4	+00 44		←	10	6/3	02 41	02 49		41E
567-65	HD 187929	"	"		→	10	6/3	02 50	02 58		
568-65	HD 188350	19 49.6	+00 01		←	10	6/4	03 02	03 10		22E
569-65	HD 188350	19 49.6	+00 01	5200	→ 3300	10	6/4	03 12	03 20		13E
570-65	HD 187929 ^{in Ang.}	19 47.4	+00 44		←	10	6/3	03 24	03 33		57E
571-65	HD 187929	"	"		→	10	6/3	03 33	03 41		49E
572-65	HD 188350	19 49.6	+00 01		←	10	6/4	03 44	03 52		140E

Dome Temp. 68

Focus 15.52

Dome Temp.

Transparency Conditions cloudy earlier, fair 128

May 15, Primary Mirror Aluminized

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0030	0 11 E	11 32	0	8.4	K2	4-4-4	set 2 12.08	4654 5138 at 0h00 weak
						15/10	7 194+8	ct videt slightly
01 05	2 32 W	+18 36	5"	3.29	G0IV	30"	4A/sec 2"/min.	
01 30	2 01 W	+19 15	"	5.28	G8V	"	" "	
01 55	0 04 E	+32 32	"	6.01	G0V	"	" "	
02 23	0 52 E	+38 44	"	0.03	A0V	"	" "	
02 57	1 55 E	+00 09	"	5.57	A0	"	" "	
02 49	1 41 E	+00 54	"	Var	Var	"	" "	
02 58	"	"	"	"	"	"	" "	
03 10	1 22 E	+00 09	"	5.57	A0	"	" "	
03 20	1 13 E	"	"	"	"	"	" "	
03 33	0 57 E	+00 54	"	Var	Var	"	" "	
03 41	0 49 E	"	"	"	"	"	" "	
03 52	0 40 E	+00 11	"	5.57	A0	"	" "	

Date Sat. - Sun 1958 May 17-18 Observer N. - Dq Julian Day 2436341
Dq ⊙ 56 26 31.3 3467.9

⑤ 56 26 31.3 3467.9

[illegible]

Home Temp. 63°F

Focus 15.55

Home Temp.

Transparency Conditions hazy - seeing poor -

130

N. Dg. showed xCVn. to ~ 200 visitors.

Ending Time EST.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
2349	25W	-2 08	0	5.93	68III-IV	4-4-4	Set 2 0 HV	} focus probably too weak bad. See next page. It'd. continued
021	58W	+37 27	0	6.50	K0II-SI	4-4-4	Set 3 0 HV	
						10/7	Set 5 Focus Test	
							2 P.H + 7	
							Clouds forming over the whole sky	

Date ^{mon} May 19-20 /57 Observer H. B. G. Julian Day 2436343
 58 22 02.7 3462.1

① 58 22 05.7 3465.1

[illegible]

Time Temp. 56 F

Hazy + getting worse, 132

Found Spectrograph focus set at 16.55

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
22.25	W 2 ^h 45	20 22 0	7.67	137 th	4-4-4	Set 2. O-HV	X meter reading 5142 at 2129 " " 5197 at 2219 - Hopeless - closed up.	weak
		O.T.B.			15/10	8		
							mc sc NTW STW S SW ME May 20 21 +23.6 -31.8 -40.6 -0.2 +0.6 -32.2 +6.8 +2^m 2.4 -31.2 +0.5	
							Tues-Wed May 20-21/58 Cloudy Partly clear after 2:00 A.M. EDT. HV	

Home Temp. $+52^{\circ}F$

Transparency Conditions

Same chd.

134

bcus. 15.43

Home Temp.

Ending Time
E.S.T.

Hour Angle
End

Declination

Seeing

Ptg.
Mag.

Sp.

Comp.

REMARKS

Quality

22:46	5 ^m W	-0° 35	0	6.40	FL IV	4-4-4	Set 2	O-HV	l wh
23:18	7 ^h	-2° 09	1	5.93	G8 III	4-4-4	Set 8	O-HV	l wh.
23:45	3 ^h 25 ^m W	+37° 25	1	6.50	Ko III	4-4-4	Set 2	O-HV	fine
03:25	3 05 W	11 34	0	8.6	K2	4-4-4	Set 5	Ek-UB	Nearly overcast at 320 good
						15/10	9		ok
							1 PH +4		

Thurs. - Fri

Date May 22-23/58 Observer BK, Mai-

..Julian Day.....2436346

① 61 15 16.6 3460.6

[illegible]

Time Temp. 47° at 1.00 A.M.

Transparency Conditions Clear

136

[illegible]

Dme Temp.....47°F

Transparency Conditions

Dear

138

[illegible]

Date Sun-Mon May 25-26, 1958 Observer Mari 0 - 0 Hr Julian Day 19580525.5

[illegible]

Dme Temp. $+51^{\circ}$

Fus.

Dme Temp.

Transparency Conditions *Clouds in W and NW.* 140

Ending Time E.S.T.	Air Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
21.42	00W	+9 45	10	6.66	KIV	30	4A/sec 2 1/2 min HV	
22.13	12E	+1 25		6.87	dG-3	"	" " " "	
22.39	13E	-2 08	6	5.93	G8 III-IV	"	HV Test of purity of + Spectrum in UV. 3400A	
23.02	15W	+37 26	"	6.50	Ko III-IV	"	HV	
23.39	00E	+38 44	"	0.03	A0V	"	Stand.	
00.06	38E		"	3.42	G0 IV	"	" "	
00.29	12W	+36 36	"	5.74	Ko III-IV	"	HV	
00.51	40W	-1 02	"	5.98	G8 IV-V	"	"	
01.14	35E	+27 42	"	4.17	G5 IV	"	"	
01.35	47E	-2 57	"	4.20	Ko III-IV	"		
01.57		+38 44	"	0.03	A0V	"		
02.13	43E	+0 09	"	5.57	A0	"		
02.25	29E	+0 51	"	Vm	Var	"		
02.33		"	"	"	"	"		
02.46		+0 09	"	5.57	A0	"	Clouds around.	

Date May 25-26 (Contd) Observer O, Hr. Julian Day

[illegible]

Done Temp.....

Transparency Conditions

142

Ending Time E.S.T.	Hor Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
02 54	01E		6	5.57	A0	30		
03 07			"	Var	Var	"		
03 16	37E		"	"	"	"		
03 29	27E		"	5.57	A0	"		
							MC SC MTW STW S SW ME May 27 130.2 -37.0 +3 ^m 20.2 +0.5 ^m +2.4 -25.1 +4.2	

Wed - Thurs.

Date _____

Mar. 28-29/58

Observer

Se/My - H Ju

Julian Day.....2436352

① 67 00 57.6 3451.7

[illegible]

ome Temp. $+5.2^{\circ}$

ocus 15.43

ome Temp. $...$

Transparency Conditions

Some Clouds

149

Ending Time
E.S.T.

Hour Angle
End

Declination

Seeing

Ptg.
Mag.

Sp.

Comp.

REMARKS

Quality

21.29	$0^h, 30' W +5^{\circ} 24'$	0	7.47	G5 IV	4-4-4	set 2	0 - HV	Too weak
22.08	$0^h, 4' E -0^{\circ} 42'$	0	6.4	F6 IV	4-4-4	set 8	0 - HV	L weak
22.20	$0^h, 4' E -10^{\circ} 49'$	0	7.68	F5 VII	4-4-4	set 2	Se - HV	Too weak

4 P.H. + 8?

0030 Cloudy-Closed Up.

	MTW	SW	ME				
May 29	+15.2	+13.7	+2.2				
30	MC	SC	MTW	STW	S	SW	ME
	+30.0	-40.1	+2 ^m 38.2	+4 ^m 30	-0.6	+15.4	-0.3

Sat-Sun May 31st

Bk-Se-Sh.

200 vintres sharp telescope and a C.M.

	MC	SC	MTW	S	ME
June 2	+32.0	-44.5	+3 ^m 29.0	-6.2	+3.4

145

Date Mon. June 2-3 1958 Observer MR - HV Julian Day 2436257
 ☉ 71 48 24.2 3446.2

Plate No.	Object	R.A. 1900-1960	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.
592-67	β Leo	11 ^h 46.9 ^m	+14° 49'	H8 x 2		20	4/6?	21:16		
593-67	γ U Ma	11 51.5	+53 54	"		"	4/6?	21:36		
594-67	η U Ma	13 46.0	+49 31	"		"	4/4✓	21:57		
595-67	109 Vir	14 44.1	+02 04	"		"	5/3	22:17		
596-67	α C Br	15 32.9	+26 51	"		"	4/5	22:42		
597-67	α Dra	14 03.3	+64 34	" "		"	5/3	23:02		
598-67	γ Her	16 18.6	+46 24	H β , H γ +H δ x 2			5/4	23:20		
24245	HD 153344	16 53.8	+62 16	I-25	E103a-O	.008	16.5f 16.2	0036	0136	4
24246	" 188326	19 49.5	38 30	"	"	"	16.2	0149	0339	W
	Found lost		0713							

Dome Temp.

Focus. 15.53

Dome Temp.

Transparency Conditions Good.

146

0230 Few wisps of cloud.Ending Time
E.S.T.Hour Angle
End

Declination

Seeing

Ptg.
Mag.

Sp.

Comp.

REMARKS

Quality

—

6

2.21

A3V

30"

4520-4210 D 1A/s, 2"/min ditto

+53° 56'

"

2.43

A0V

"

4530-4208 D

+49 30

"

1.66

B3V

"

4540-4210 D

+02 04

"

3.74

A0V

"

4520-4167 D

+26 51

"

2.21

A0V

"

4520-4191 D

1 count/135

+64 35

"

3.59

A0V

"

4520-4210 D

+46 22

"

3.73

B5V

"

4962-4734 D; 4520-3880

0136

109 W

+60 10

0

7.73

G5V

4-4-4

Set 2 O-Hv.

Counter
5258Bul.
331Selector
53-2 at 0044

fine

0239

2015 W

38 37

0

8.34

G8V

4-4-4

" 8

"(0239)

5291
5296325
3252
3

fine

15/10

" 5

3 P.H. + 8.

Date Tues: Wed June 3/58 Observer L-M - H5 Julian Day 2436358
 ☉ 72 45 50.4 3445.4

Time Temp. 15

ome Temp. 160°

ocus. 15.49

ome Temp.

Transparency Conditions *Good*

148

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
21:31	1 ^h 17 W	+9° 45'	○	6.66	KI IV	4-4-4	OKE HV.	good
21:59	0 ^h 19 E	-2° 10'	○	5.93	G8 IV	4-4-4	" "	fine
22:32	0 ^h 14 E	+37° 26'	○	6.5	K0 III-IV	4-4-4	OKE HV	fine
22:50	0 ^h 9 E	+36° 36'	○	5.74	K0 III-IV	4-4-4	OKE HV	fine
23:25	0° 5 W	+13° 20'	○	6.70	G2 V	4-4-4	Se HV	fine
00:36	0 15 W	+42° 54'	○	7.46	G0 V	4-4-4	Se HV Set 8	fine
01:54	150 W	31 01	○○	7.66	F0 V	4-4-4	Set 2 Se-Hv Hazy	fine
						15/10	" 8 0200 Clouds Threatening	
							0300 Hopeless.	
							3 P.H. +4	
							mc sc MTW ETW S SW ME	
							June 4 +32.0 -47.5 3" 34.6 5" 24.8 -4.0 +21.2 -1.2	

149

Date June 5/58 Thurs. Fri. Observer My - Mai Julian Day 2436.360
 ☉ 74 40 40.4 3444.0

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.
24254	HD 124425	14 ^h 8.5 ^m	-0° 22'	I-25	E103a-O	set	+20°C	21:14	21:34
24255	HD 128429	14 ^h 31.7	-11° 53'	"	"	"	+20°C	21:44	22:10
24256	HD 140283	15 ^h 37.8	-10° 37'	"	"	"	+20°C	22:25	23:43
24257	HD 142373	15 ^h 49.2	+42° 44'	"	"	"	+19.9°C	23:52	23:59
24258	HD 157089	17 ^h 16.1	+01° 32'	"	"	"	20.1°C	00:35	01:45
24259	HD 184499	19 ^h 29.7	+32° 59'	"	"	"	20.2°C	02:20	03:12

Dome Temp. $+59^{\circ}$

Transparency Conditions

Good

150

Focus 15.49

Dome Temp. 46° Ending Time
E.S.T.Hour Angle
End

Declination

Seeing

Ptg.
Mag.

Sp.

Comp.

REMARKS

Quality

21:37	0 ^h 1 ^m W	$-0^{\circ} 42'$	0	6.40	F6 IV	4-4-4	Set 2	OK E HV	good
22:10	0 ^h 15 ^m W	$-12^{\circ} 9'$	0	6.67	F6 IV-V	4-4-4	Set 2	" HV	l weak
23:43	0 ^h 47 ^m W	$-10^{\circ} 50'$	0	7.68	F5 V	4-4-4	Set 2	Se HV	too weak
23:59	2 ^h 46 ^m W	$+42^{\circ} 33'$	0	5.16	F9 V	4-4-4	Set	Se HV	good
01:05	1 ^h 06 ^m W	$+01^{\circ} 27'$	0 ^(minute)	7.55	G0 V	4-4-4	Set 2	Se HV (A Little Moonlight)	fine
03:12	0 ^h 22 ^m W	$+33^{\circ} 06'$	0 ["]	7.19	G0 V	4-4-4	Set 2	Se HV	fine

Moonlight in south & some cloud
in west.

4 P.H. + 0

Bridge not balanced

	mc	sc	MTW	STW	S	SW	ME
June 6	+35.0	-50.3	-21.2	+25.0	-7.1	+20.3	+1.8

151

Date Fri June 6-7/58 Observer L-Sh-^{78K} Julian Day 2436361
 ☉ 75 38 04.4 3443.3

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.
24260	(HD) 2 ✓ 142198	15 ^h 48.1	-16° 26	I-25	103a-0	.008	15.1	21R 20m	21R 30m	1
24261	153344	16 53.8	+62 16	"	"	"	15.1	21 53	23 01	1
24262	174369	18 45.1	+24 56	"	"	"	15.0	23 35	23 55	1
24263	ADS 9908	15 58.9	+11 42	"	"	"	15.0	00 03	03 03	✓
24264	HD 174369	18 45.1	+24 56	"	"	"	14.2	03 10	03 30	2
	Focus Test	07.0								

Dome Temp. 55°F

Transparency Conditions Good

152

Focus 15.42

Spectacular aurora all night.

Dome Temp. 44°F

Ending Time
E.S.T.Hour Angle
End

Declination

Seeing

Ptg.
Mag.

Sp.

Comp.

REMARKS

Quality

1830m

R40mE

-16 37

O

5.17

K₀^{III}

4-4-4

Set 2

Oke HV

good

230

R11E

+62 10

O

7.73

9.51

4-4-4

Set 8

" "

fine

2:55

2 10E

+24 48

O

6.56

A2

4-4-4

Set 2

N - binary

fine

0303

3 44W

11 33

O

8.4

K2

4-4-4

Set 3

BK - UB

good
(guiding)

0330

1 26W

25 00

O

6.56

A2

4-4-4

8

N - binary

fine

15/10

8

OK

194, Plates needed

Sat June 7-8 - clear with high cirrus

300 visitors - MR, Sh, Mai

showed 4 and M3

	MC	SC	MTW	STW	S	SW	ME
June 9	+34.7	-54.6	+9.9	00	-9.3	+23.9	+4.2

Cldy at midnight

Mai - 2nd half

solid cloud at 1:30

	MC	SC	MTW	STW	S	SW	ME
JUNE 11	+26.1	-57.5	+7.8	-0.7	-11.9	+32.2	+3.9

Date Wed June 11-12/58 Observer G. L. G. - H Julian Day 2436366
 ☉ 80 24 55.5 3440.7

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P
242645	HD142373	15 ^h 49.2 ^m	+42° 44'	I-25"	103a-0	.008	21.1	9:23	9:31	4
242646	HD143333	15 ^h 54.7	-16° 14'	I-25"	103a-0	.008	20.9	9:51	10:09	4
242647	HD149363	16 ^h 29.1	-05° 56'	I-25"	103a-0	.008	20.2	10:33	00:09	1
242648	HD175544	18 50.7	+00 08	"	"	"	20.3	00 18	01 38	1
242649	" 214946	22 36.7	44 29	"	"	"	20.5	01 51	02 56	2
	Notes		0713.							

Home Temp. 58°F

Transparency Conditions

154

ocus. 1550

Home Temp.

Ending Time
E.S.T.

Hour Angle
End

Declination

Seeing

Ptg.
Mag.

Sp.

Comp.

REMARKS

Quality

9:31

1^h 18^m E

42° 34'

0

5.16

F₉ V

4-4-4

Set 2 - H.V.

fine

10:09

0 47 E

-16 24

0

6.00

F₈ V

4-4-4

exp. meter sensitivity 3 at 9:55 count 160 at 10:16 count 505

fine

10:09

039W

-06 03

0

8.0

O₉

4-4-4

Set 2. Radcliff IB. 19.38 513, 0009 5544

fine

10:33

012E

+00 13

00

7.7

B₅

4-4-4

" 8 Radcliff OB.

Not Bol. 3

fine

10:56

240E

44 46

00

7.26

A₅

4-4-4

" 2 Spect. 13m N. Thin Cloud.

15/10 " 8

fine

1.P.H + 8?

Who stole ARC-STRIPED

MC SC MTW STW S SW ME
JUNE 13 +41.5 -01.0 -54 -0.4 -13.0 +28.1 -1.7

Set 1 - S, BK, Chan to start

Group I 85 - started Jupiter

Group II 40 m at 10:10 in M3, followed by

65 m at 10:20 in M3, followed by

155

Sun-Mon.

Date June 15-16, 1958 Observer Bk. G; - Mai Julian Day 2436 370
 ☉ 84 14 15.2 3438.7

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit set.	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P	Angle incl.
(2426/70	HD114174	13 ^h 03.8	+05° 46'	1-25	103-0	.008	17.2	20:55	21:55		06°W
{24270"	HD130952	14 ^h 45.8	-01 53	1-25	103-0	"	17.0	22:04	22:24		52°W
{242712	HD143333	15 ^h 54.7	-16° 14'	1-25	"	"	17.0	22:34	22:54		14°W
{242723	HD136064	15 ^h 13.5	+67 44	1-25	"	"	17.1	23:06	23:20		12°W
242724	HD154 ⁵ 28	17 00.9	77 48	"	"	"	17.0	23:29	23 59		19°W
599-68	^{58 Aqu.} HD188350	19 49.5	00 01	3300	5200	10	6/4	01 12	01 20		09°E
600-68	^{7 Aqu.} HD187929	19 47 ²³ 23	00 45	5200	3300	"	6/2	01 26	01 34		59°E
601-68	HD187929	19 47 ²³ 23	00 45	3300	5200	"	6/2	01 39	01 47		49°E
602-68	HD188350	19 ^h 49.5	00 01	5200	3300	"	6/4	01 58	02 07		57°E
603-68	HD211336	22 11 21	56 33	3300	5200	"	6/1	02 59	03 08		47°E
604-68	^{2 Ceph} HD213306	22 25 ²⁷ 27	57 54.2	5200	3300	"	5/5	03 19	03 28		40°E
605-68	^{5 Ceph} HD213306	22 25 ²⁷ 27	57 54.2	3300	5200	"	5/5	03 34	03 40		30°E

Home Temp. 62°F

Transparency Conditions Good

156

bcus 15.45

Home Temp. 49°F

370
3438.5

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
21:55	2 ^h 06 ^m W	+05°24'	0	7.47	G ₅ IV	4-4-4	Set 2. 0-H.V. Exp. 5735 155	L. weak
22:24	0 ^h 52 ^m W	-02°09'	0	5.93	G ₂ III-IV	4-4-4	Set 8. 0-H.V. 5890 Selector 3	good
22:54	0 ^h 14 ^m W	-16°26'	0	6.00	F ₈ V	4-4-4	Set 2. Se-H.V. 6159 265	weak
23:20	1 23W	+67 29	0	5.64	F ₈ V	4-4-4	" 8 Se-H.V. 6230 235	L. strong
23:50	0 19W	77 42	0	6.7	A ₀	4-4-4	Set 5 R.V. Sp. Bin 6465 285	fine
01:20	1 09E	+0 09	0	5.57	A ₀	30	1 PH + 4 4 A/sec	
01:34	0 58E	+0 51	0	Var	Var	"		
01:47	0 44E	0 51	0	"	"	"		
02:07	0 27E	0 09	0	5.57	A ₀	"		
03:08	0 47E	56 50	0	4.51	F ₀	"		
03:16	0 40E	58 11	0	Var	Var	"		
03:40	0 130E	58 11	0	"	"	"		

mc sc MTW STW S SW me
June 16 +43.7 -175.0 -28.7 -0.8" -15.9 +31.1 +2.9

157

Date June 17-18, 1958 Observer mg - H5 Julian Day 2436372
 ☉ 86 08 52.0 3437.5

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.
242745	HD 114174	13 ^h 03.7	+5° 46'	1-25	E103a-0	"	+18°C	21.06	23.06
242746	HD 174369	18 ^h 45.1	+24° 56'	"	E103a-0	"	+18°C	23.47	0017
242747	HD 186182	19 37.8	+15 02	"	"	"	+17.6	00 35	02 41
242748	HD 174369	18 45.1	+24 56	"	"	"	17.3	03 05	03 31
	Transit		0713						

Dome Temp. 62°F

Transparency Conditions

Good

158

Focus 15.46

Dome Temp.

Ending Time
E.S.T.Hour Angle
End

Declination

Seeing

Ptg.
Mag.

Sp.

Comp.

REMARKS

Quality

23.06

3^h 25' W

+5° 24'

0

7.47

G5 II

4-4-4

O-MV

(explan. falsocent)

fine

00.17

10 4 E

+25°

0

6.56

A2

4-4-4

Spectroscopic Binocular Set 2.

fine

02.41

0 27 W

+15 08

0

8.0

B5

4-4-4

Set 2

Raddcliffe OB

fine

03.3

210 W

24 59

0

6.56

A2

4-4-4

" 8 Spect. Bin. P.H. back on upside down.

fine

15/10

" 5

OK

3 P.H. Plates Needed.

	mc	sc	mlw	slw	s	sw	me
June 18	-40.3	-1° 07.6	-48.1	-1.1	-16.8	+27.2	+3.6

159

Wed-Thurs.

Date June 18-19, 1958

Observer Dg - Mai

Julian Day 2436373

O 87 06 09.5 3436.9

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
242779	HD 166628	18 06.4 ^h	-19° 28'	I-25	E103a0	.008	19.5°	22 46.	24 00		38 E
242780	HD 180587	19 ^h 20.0 ^m	+10° 49'	I-25	"	"	19.5°	00 24	02 45		04 W
											actually star lost seen about 02 ^h 00
Focus Test		OTB									

Time Temp. 60°F

Focus 15.48

Time Temp. 56°F

Transparency Conditions Clear

A few clouds at the beginning

160

Ending Time
E.S.T.

Air Angle
End

Declination

Seeing

Ptg.
Mag.

Sp.

Comp.

REMARKS

Quality

2400

38 E

-19° 28'

0

7.1

B3

4-4-4 set 2

Radcliffe OBB

l weak

0045

04 W

+10° 54'

0

8.1

B4

4-4-4 set 8

Radcliffe OBB stars

spoiled

Some cloud at
00h30m
passed over
star

00h50m
more obscuring
cloud.

Star barely visible
through cloud

01h00 → 02h05
Lost, hopelessly
cloudy

Same at 02h45m

by over-
lapping
focus
test.

2 P.H. + 12

10/7 (I goofed!)

Should have been 15/10
I just noticed
(too late).

MC SC MTW STW S SW ME

June 20 +51.2 -111.4 +52.9 +1.4 -19.5 +24.6 -1.8

161

On sens 3 200 counts negd.
" " 2 23 " "

Date

June 21-22 1958

Observer

H. M. - Mai

Julian Day

2436376

0 89 57 58.3

3435.0

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.
2428/1	HD166628	18 ^h 6.4'	-19° 28'	I-25	E 103 a0	.008	17.0	22:52	01 00
2428/2	HD174369	18 ^h 45.1	+24° 56'	"	"	.008	17.0	01 13	01 42
2428/3	HD186182	19 ^h 37.8	+15° 02'	"	"	"	16.9	01 54	03 34
	Focus Test	DTB							

Time Temp. 58.5

Ecus. 15.46

Time Temp. 34.35.0

Transparency Conditions

cloud

162

250 visitors, showed MS with 74" Hd, Mai, My
RASC showed 4, 5, 6. Aurora

Ending Time E.S.T.	Sur Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0100	0	32W -19°28	0	7.1	B ₃	4-4-4	Limit 7358-7558 Radcliffe QB act 2	Good
0142	0	37W +25°00	0	6.56	A ₂	4-4-4	" 7561 to 7762 Spect. Bin. sed 2	fine
0334	1	37W +15°09'	0-1	8.0	B ₅	4-4-4 15/10	" 7769-7910 Radcliffe QB sed 6 sed 9	Good OK
							4 P.H. + 8	
							some cloud 02 ^h 30 ^m .	

Date *Mon. Tues. June 23-24 1918* Observer *MR* — Julian Day

[illegible]

154

Dome Temp.....

Ending Time E.S.T.	Bour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
		02° 04' 38° 44'	5"	3.74 0.04 AOV	Aov	30"	4520-4220 1 A.O/S, 2"/min slit 20 [sky too hazy & transparency varying too poor to continue]	
							JUNE 24	
							N.C. SC MTW STW S SW NE	
							+130 -196 +1430.5 +16 -24.1 +144 +108	
							JUNE 26	
							M.C. S.C. M.T.W. STW S SW M.L.	
							+130 -239 FIDDED -26.2 +156 -30	

165.

Date Friday June 27-28/50 Observer L - Psi Julian Day 2436382
 0 95 41 18.5 3431.5

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.
2428 ⁵ 4	114174	13 03.8	+05 46	I-25	E-103A	set .008	21.4	21 06	22 06
2428 ⁵ 7	166689	18 06.7	-16 24	"	"	"	21.4	22 14	01 00
2428 ⁵ 6	180587	19 12.0	+10 49	"	"	"	21.2	01 10	03 50
	Focus Test	OTB							

Dome Temp. 67°F

Focus 15.50

Dome Temp. 57°F

Transparency Conditions

Hazy

LCC

Ending Time
E.S.T.Hour Angle
End

Declination

Seeing

Ptg.
Mag.

Sp.

Comp.

REMARKS

Quality

22 06

3 04W

-05 26

0

7.47

G5IV

4-4-4

Sel 2

O-HV

fine

01 00

0 56W

-16 24

0

7.3

B₁

4-4-4

" 2

Radcliffe O-B

03 50

2 41W

+10 54

0

8.1

B₄

4-4-4

SeD 8

Radcliffe O-B

} Fogged

15/10 SeD 8

2 P.H. + 8

Date June 28-29/58

Observer Gg-Dg-Mbi

Julian Day 2436383

96 38 30.0

3431.2

[illegible]

Hazy with some clouds. 158
cloudy at 12:00.

3431.2

Sat June 28 - Visitors - about 70
Showed 11 Bottles.

Dominion Day!

Date Monday Jun 30 - Jul 1/1958 Observer D. - Mai Julian Day 2436385
 ☉ 98 32 52.1 3430.7

[illegible]

Dome Temp. 78°F

Focus 15.61

Dome Temp. 74°F

Transparency Conditions

Very hazy
at first

170

ending Time
EST.

PE

Hour Angle
End

Declination

Seeing

Ptg.
Mag.

Sp.

Comp.

REMARKS

Quality

0 04E

-02° 11'

0

8.2

Bo

4-44

set 2 Radcliffe OB

Winds at 23:30 EST

Dome closed at 00:30 EST

15/10

set 8

focus test

1 PH + 7

even hazier later!

SC MTW STW S SW ME

July 3 -32.7 +8.2 +0.2 -31.5 +4.8 +0.8

Loaded plateholder
now in frig.Saturday July 5-6 H, Sh, Mai Cloudy with rain
Gave lecture, demonstrated telescope. Two other
telescopes set up before dark. Possibly 30 visitors

Date Sun-Mon July 6/7, 1958

Observer

- Mai

Julian Day 2436391

① 104 15 57.7 3431.7

[illegible]

Dome Temp.....

Transparency Conditions

172

Focus.....15.55

Dome Temp.....

1st half - poor, cloudy
thick haze about noonading Time
E.S.T.Hour Angle
End

Declination

Seeing

Ptg.
Mag.

Sp.

Comp.

REMARKS

Quality

2^h 59

-19 28

0

7.1

B3

4-44

set 2 Radcliffe OB prog.

Too weak

2^h 55

+10 54

0

8.1

B4

4-4-

set 8

"

"

"

1 weak

15/10 set 5

Couldn't balance ex. mtr.
 high pointers moved but
 diff. 8' for pointer couldn't
 set on "zero"

OK.

3 P.H. + 4

as Integrator moved up to .69
 diff. 8' for moved down to
 a minus reading.

By putting diff. sens. on 5
 balance achieved,
 occurred at 01 30, set count
 at 60

Light broken cloud forming in south
 at 02:10 A.M.

July 7 mc sc mW STW S SW mc
 +14.4 -37.1 +11.2 -2.6 -34.7 +3.8 -4.3

02:23 Light Cloud Overhead

Star blocked out for 15 mins

Clouded out at 03:28 A.M.



In making focus test found prisms not set in
 middle slot!!

Date Tues July 8/9 1958 Observer L-Lux - Hr Julian Day 2436393
 ☉ 106 10 21.5 3432.4

[illegible]

Dome Temp. 65°F

Focus 15.52

Dome Temp.

Transparency Conditions

Good

174

Bright Aurora

ading Time
E.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
3 54	0 56 W	-02 12	0	8.2	B0	4-4-4 Set 2 Radcliffe OB	good
3 20	02 55 W	10 53	0	8.1	B4	4-4-4 Set 8 " "	good
					15/10	" 5	
						2 P. H. In frig.	
						Aurora very bright till just before dawn	

Dome Temp. 71°F

Focus 15.55

Dome Temp. 63°F

Transparency Conditions

Clouds in the north
haze

176

ading Time
E.S.T.

	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
2 ^h 03	2 ^h 44 ^m E	-18 37	0	6.7	B ₀	4-4-4 Set 2	O B Radcliffe	weak
3 ^h 1	1 ^h 33 ^m E	-18 24	0	7.0	B ₀ e	4-4-4 set 8	" " "	fine
052	0 ^h 52 ^m W	+00 14	0	7.7	B5	4-4-4 Set 2	" "	strong
140	0 ^h 43 ^m W	+10 17	0	5.8	F8	4-4-4 Set 2	Star. Vel Stars (fine)	cloudy in south at 1:30
230	1 ^h 54 ^m W	+58 28	0	7.5	K5	4-4-4 Set 8	" " " (low)	clouds all over at 2:15, cut exposure.
						15"/10" Set 5		
							Clouded Out.	
							OPH + some in box.	
							Sc MTW JTW S SW NG	
							July 11 -30.4 +26.9 +1.0 -30.4 -10.2 +0.8	

Date Sat July 12/13 1958 Observer Lix
Dg - BKK Julian Day 2436397
⊙ 109 59 13.8 3434.3

[illegible]

Dome Temp. 73 °F

Focus 15.57

Dome Temp. 68 °F

Transparency Conditions ¹⁷⁸Partly cloudy, improved about 23⁰⁰

Showered π Bootis to 160 visitors
approximately, Bk, Sh, Dq demonstrated telescope.

ending Time
E.S.T.

Hour Angle
End

Declination

Seeing

Ptg.
Mag.

Sp.

Comp.

REMARKS

Quality

4 33

0^h 45^m W +00 13' 0 7.7 B5 4-4-4 Set 2 OB Radcliffe "poor focus" l weak.

3 42

3 02 W +34 55' 1 8.5 A2 4-4-4 Set 2 Visual Binaries Programme - BKUBF fine

15/10

7

1 PH, plates needed

14 July 1958 - Mai

got 4 counts
on exposure
meter.

tried to find stars in
north. (Shell stars)
each time blocked out by
cloud. Closed up 02:00 A.M.
Julian Day E.S.T.

Date _____

Observer

Julian Day

[illegible]

Transparency Conditions

Cloudy

100

Dome Temp. 69°F

Focus 15.57

Dome Temp.

ending Time
E.S.T.

Hour Angle
End

Declination

Seeing

Ptg.
Mag.

Sp.

Comp.

REMARKS

Quality

July 14

mc	sc	mtw	stw	s	sw	me
+15.9	-43.5	+31.1	+5.1	-38.6	-22.3	-5.2

ome Temp. 69°F

ocus 15.55

ome Temp. 59°F

Transparency Conditions

hazy

182
Magnificent
Night.

seeing variable
some slight aurora.

Ending Time
E.S.T.

our Angle
End

Declination

Seeing

Ptg.
Mag.

Sp.

Comp.

REMARKS

Quality

23 35	00 18W	-00 26	0	8.1	B3	4-4-4 set 2
00 4	0 23E	-10 04	0	6.45	G0V	4-4-4 set 2
01 4	0 19W	+11 32	0-1	6.30	G2V	4-4-4 set 8
02 15	0 20E	+03 34	0-1	7.54	G0V	4-4-4 set 2
03 40	0 48W	+12 41	0-1	7.63	G2V	4-4-4 set 8 15/10 set 5

OB Radcliffe

Lowish

Se-HV

fine

Se-HV

Ex. Mtr.

fine

Se-HV

0643-0845

fine

Se-HV

0848-1051

fine

OK

2 P.H. + 8

	mc	sc	MTD	STW	S	SW	MA
July 18	+15.4	-47.2	+69.2	+43.8	-42.7	-31.3	-10.4

Date Sat. July 19-20, 1958 Observer Lik mai Julian Day 29

Lix
mai
29

Julian Day

[illegible]

Dome Temp.....

Focus.....

Dome Temp.....

Transparency Conditions

Cloudy and stormy 184

Dg. Lih, Mai demonstrated telescope
to 30 visitors, gave lecture —

Ending Time
E.S.T.

Hour Angle
End

Declination

Seeing

Ptg.
Mag.

Sp.

Comp.

REMARKS

Quality

Date Sun July 20-21

Observer.....Se

Julian Day

[illegible]

Dome Temp.....

Transparency Conditions

186

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
	1 ^h 49 ^m W	+26° 53'	0	2.2	AoV	30"	UV at 4/6 4A/sec	
	2 14 W	+28° 17'		5.8	F8 Ib	30"	R Corona	
		+38° 45'	0.03	AoV	"		UV at 3/6 CLOUDS	
							MC SC MTW STW S SW NE July 21 +14.5 -49.8 +54.7 +25.0 -44.0 -30.1 -6.2	

187

Li

Dg

Sei

Date Mon July 21-22 Observer Sei Julian Day

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.
604-70	γ Her	16 ^h 18.6 ^m	+46 24	HP, γ , 8x2		20	5/5	21 ^h 19 ^m		
	γ Her	16 ^h 18.6 ^m	+46 24			20	5/5	21 ^h 28 ^m		
605-70	α Lyr	18 ^h 35.6	+38 45	HP, γ , 8x2		10	4/3	22 ^h 41 ^m		
606-70	α Cyg	20 ^h 40.1	+45 06	HP, γ , 8x2		10	4/5	22 ^h 48 ^m		
607-70	γ Cyg	20 ^h 47.5	+45 58	HP, γ , 8x2		20	4/4	00 ^h 33 ^m		
608-70	10 Lac	22 ^h 37.3	+38 51	HP, γ , 8x2		20	5/5	01 ^h 45 ^m		
609-70	HD 218440	23 ^h 05.5	+59 32	HR		20	6/4	03 ^h 10 ^m		
610-70	AR Cas	23 ^h 28.2	+58 20	HR		20	6/1	03 ^h 32 ^m		
611-70	ϵ And	23 ^h 36.1	+43 03	HR		20				

Dome Temp. 64°F

Transparency Conditions

excellent

188

Focus

Dome Temp. 61°F

Ending Time
E.S.T.

Hour Angle

End
Begin

Declination

Seeing

Ptg.
Mag.

Sp.

Comp.

REMARKS

Quality

0 ^h 41 W	+46 24	7"	3.73	B5 IV	30"	4988-4750	* drifted off	1 A/sec 2"/min	
0 ^h 50 W	+46 24	7"	3.73	B5 IV	30"	4960-4760	4000-4540 (5/3)		
0 ^h 13 E	+38 43	10"	0.04	A0 V	30"	4960-4760 (4/3)	4460-4E (4/2)	1 A/Sec 2"/min	
1 ^h 12 E	+45 10	10"	1.35	A2 Ia	30"	4540-4000 (4/5)	4960-4760 (5/1)		
1 ^h 34 E	+45 58	6"	5.22	B3 Ia	30"	4960-4760 (6/4) and (6/1)	4650-4000 (6/3)		
1 ^h 10 E	+38 48	5"	4.67	O9 V	30"	4650-4000 (5/5)	4960-4760 (5/6)		
0 ^h 15 E	+59 28	4"	6.28	B2 V	30"	4540-4250	1 A/sec 2"/min		
0 ^h 16 E	+58 18	4"	4.9	B3 V	30"	4540-4260	1 A/sec 2"/min	double #, took brighter	
			4.28	B8 V	30"	SKY TOO BRIGHT - Clouds + Sun			

Date Tues July 22-23

Observer.....Se

Julian Day 2436407

① 119 31 53.5 3437.6

[illegible]

Dome Temp.....

Transparency Conditions

Ending Time
E.S.T.

[illegible]

Date Wed July 23-24

Observer.....Se
Li

Julian Day 2436408

© 120 29 11.1 3438.0

[illegible]

Dome Temp. 67°F

Transparency Conditions

clear

192.

408
3438.0

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality	
23 ^h 26 ^m	0 ^h 43 ^m W	-05° 50'	0	7.3	B5 ^h	4-4-4	Set 2	OR Radcliffe	good
00 ^h 22 ^m	0 ^h 12 ^m W	-10° 05'	0	6.45	G0 ^h	4-4-4	Set 2	Se H.V.	fine
01 ^h 01 ^m	1 ^h 25 ^m W	+24° 51'	0	6.71	F6 ^h	4-4-4	Set 8	" "	l weak (quadrant)
02 ^h 31 ^m	0 ^h 25 ^m E	-04° 48'	0	7.11	G5 ^h	4-4-4	Set 2	" " "poor focus"	too weak
03 ^h 08 ^m	0 ^h 46 ^m E	+34° 26'	1	6.74	G2 ^h	4-4-	Set 8	" "	fine
							1 PH + 5		
							MTW ME		
							July 25 +48.8 +2.0		

Date Thurs July 24-25 Observer Hd Julian Day

Li
Se
Hd[illegible]

Dome Temp.....

Transparency Conditions *broken*

Hd, Se + Li showed Saturn to 30 visitors.

194

[illegible]

Date. Jul 26-27 Sat.

Observer SR Dg - [Signature]

Julian Day 2436 411
① 123 21 06.1 3439.2

[illegible]

Dome Temp.....

Transparency Conditions

Clear

196

Dq, Sh, Gy demonstrated telescope
showed Saturn, then M13 globular cluster to 190
visitors

Br and Li also have part of the time

Ending Time EST.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
4 ^h 00				.04	A ₀ V	30"	4960-4760 (4/3)	
3:19	3 ^h 04W	1544	0 !	7.3	A ₂ e	4-4-4	Set 2. Se - Shell Stars	too weak
1:08	1 ^h 13W	4827	0	5.2	B ₃ ne	4-4-4	Set 8. " " " S=3 1214-1339	too weak
						1 1/10	Set 5 (reset at 5)	
							3 PH + 2 (in chocolate bag) (in yellow box)	
							Filmy Aurora 3-4 ^h	
							MC SC MTW STW S SW ME July 28 +13.0 -52.3 +33.8 +3.0 -48.5 -37.0 -0.8	

197

1958
 Date July 31 - Aug 1 Observer Ad - Lg Julian Day 2436416
 128 07 48.7 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.I.
24313	HD 175544	18 50.7	+0 08	I-25	E103a0	008	+24.2	21 23	23 41	3
24314	MWC 317 HD 183143	19 23.0	+18 05	"	"	"	"	23 47	1:45	4
24315	MWC 395 HD 217543	22 56.3	+38 10	"	"	"	24.0	2:00	2:36	1
24316	MWC 397 HD 218393	23 02.6	+49 40	"	"	"	23.9	2:52	3:28	3
24317	MWC 407 HD 224559	23 53.8	45 52	"	"	"	"	3:42	4:10	2
	ECLL5 Vest		05 73	—						

Dome Temp. 65 F

Focus 15.55

Dome Temp.

Transparency Conditions

not very good

198

July 29-30

Main

Ending Time
E.S.T.

	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
3:13	6 107	+ 0 12	0	7.7	B ₅	4-4-4	Set 2 at 21.35 count 1349, at 23.41 1549 RadeLys OB	fine
1:45	2 39 W	+ 18 11	0	6.9	B _{9.55}	4-4-4	Set 2 Be prog. at 23.47 count 1554 at 00.48 " 1670	fine
2:36	0 03 E	+ 38 28	0	6.4	B _{3ne}	4-4-4	Set 5 Be prog. { at 02.02 " 1771 at 02.36 " 1795	L strong
3:28	1 43 W	+ 49 58	0	6.8	A _{ve}	4-4-4	Set 5 " " { at 02.51 " 1798 at 3:28 " 2010	L strong
4:10	0 33 W	+ 46 12	0	6.5	B _{3ne}	4-4-4	Set 5 " " begin 2046 end	L strong
						15/10"	Set 9	

2 PH + 82

Aug. 1

mc	sc	MTD	STW	S	SW	ME
+11.4	-40.4	+0.2	-22.5	-50.9	-43.8	-5.8

Date Fri Aug 1/2

Observer..Li

Julian Day... 2436417

① 129 05 11.6 3444.0

[illegible]

Dome Temp. 75°F

Focus 15.60

Dome Temp. 68°F

Transparency Conditions clear - light haze - bright moon

Ending Time
EST.Hour Angle
End

Declination

Seeing

Ptg.
Mag.

Sp.

Comp.

REMARKS

Quality

23 23	0° 53" W	+00° 13'	0-1	7.7	B5	4-4-4	Set 2	OB Radcliffe	2110	2365	fine
00 34	01 10" W	29° 17'	0-1	7.7	B9e	4-4-4	Set 2	Se Shell Star	2384		fine
01 14	01 16" E	48° 27'	0-1	5.2	B3ne	4-4	Set 8	"	"	2695	strong
01 30	00 54" E	" "	1	"	"	4-8	Set 2	Be Programme	Hd	2657	strong
02 12	00 17" E	38° 27'	1	6.4	B3ne	4-4-4	Set 8	"	"	"	60 strong
03 40	01 25" W	44' 46	1	7.26	A5	4-4-4	Set 2	Spectroscopic Binary		716	strong
04 22	00 08" W	05' 44	0	7.1	B5ep	4-4-4	Set 2	Be Programme	Hd	too much	fine
						15/10	Set 8				

1 PH + 4

Date Sat. August 2-3, 1958 Observer ^{Li}Dg - Li Julian Day 19580802.5

[illegible]

ome Temp. 74°F

ocus.

ome Temp. 71°F

Transparency Conditions Clean

20

D₉, Li demonstrated telescope, showed
M13 to about 150 visitors.

Ending Time E.S.T.	our Angle End- TART	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
23 ^h 51 ^m	01 ^h 43 ^m W	+38° 45'	7"	0.04	A0I	30"	4460-4959. 4960-4760 list A, 18/sec, 2"/min	
	00 ^h 08 ^m E	+45° 10'	8"	1.35	A2Ia	30"	4540 Å-4000 4960-4760 list A, " "	
	00 ^h 28 ^m W	+45° 57'	5"	5.22	B3Ia	30"	4960-4760 4650-4256 list A, B, " "	
	00 ^h 15 ^m E	+38° 48'	5"	4.67	O9I	30"	4650-3997 4960-4760 list B, " "	
	00 ^h 12 ^m W	+59° 29'	4"	6.28	B2I	30"	4540-4262 list B, " "	
	00 ^h 19 ^m W	+58° 18'	5"	4.9	B3I	30"	4540-4259 list B, " "	
	00 ^h 27 ^m W	+43° 03'	5"	4.28	B8I	30"	4540-4260 list D, " "	
	00 ^h 08 ^m E	+53° 40'	5"	3.72	B2I	30"	4540-4241 list D, " "	

203

Date Sun - Mon, 1958 Aug. 3/4 Observer BK - H Julian Day 2436419
0 131 00 00.6 3446.2

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	Star Angle End
24325	HD 180587	19 12.0	+10 49	I-25	E-103-a0	222 008	+28.0	21 26	23 56	17W
24326	HD 186182	19 37.8	+15 02	"	"	"		00 00	03 26	13W
24327	HD 4180 MWC8	00 39.2	+47 44	"	"	"		03 56	04 01	
	"						28.0	04 01 ³⁰	04 04 ³⁰	006E
	Flows Test		09 B							

Dome Temp. 75° F

Focus 15.61

Dome Temp.

Transparency Conditions Good, cloudy earlier

204

Ending Time
E.S.T.Hour Angle
End

Declination

Seeing

Ptg.
Mag.

Sp.

Comp.

REMARKS

Quality

1356

1 17 W

10 54

0

8.1

B4

4-4-4

set 2

Radcliffe prog.

Counter

2783
2854

Too weak

3

2423 W

+15 10

00

8.0

B5

4-4-4

8

2850
2907 (57)

Lowest

0401

0

4.7

B4ncp

6-?

" 2

HD-Be 5^m

2 Counter In Sel. 1.

is strong

0404³⁰

0006 E

48 01

1

12

" 5

3^m

strong

15/10

" 9

OK

3 P.H. loaded in frig.

205

Date Mon-Tues Aug 4/5 Observer hi-L. Lg. Julian Day 2436420
 0 131 57 26.8 3447.4

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.I.
620-73	γ Her	(1960) 16 ^h 18 ^m .6	(1960) +46° 24'	HB, r	8x 2	Set 20	5/4-3	21 ^h 13 ^m		
621-73	ϵ Her	17 ^h 38 ^m .3	+46 02	"	"	"	5/4-3	21 ^h 54 ^m		
24328	HD 187399	19 44.7	+29 10	"	"	"	24.4	23 10	00:36	2
24329	HD 195407	20 26.0	+36 39	1-25	103a0	.008	24.1	00:47	1:43	2
24330	^{mwc 381} HD 208682	21 52.9	+64 52	"	"	"	24.0	2:07	2:15	3
	"						"	2:16	2:30	3
	"						"	2:31	2:59	3
24331	^{mwc 383} HD 209296	21 57.2	+56 14	"	"	"	24.0	3:28	4:28	2
	Focus - test -				OT B					4

Dome Temp... 64.

Transparency Conditions Clear

205

Ending Time LST.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
(START)								
01 ^h	24 ^m W	+46° 23'	7"	3.73	B5 IV	30"	4960-4760 4540-3984, lit A, 1A/sec,	2"/min
(START)								
00 ^h	50 ^m W	+46° 02'	8"	3.68	B3 II	30"	4960-4759 4540-4000, " , B, "	"
0:36	1 ^h 25 ^m W	+29 17	0-1	7.7	B94	4-4-4	Set 2 Se shell star 2946-69	strong
1:43	1 ^h 49 ^m W	+36 48	0-1	7.7	B3e	4-4-4	Set 8 " " " 2971 - 94	strong
2:15	0 56 W	+65 07	0-1	5.8	B3ne	4-4-4	Set 2, S, H. Hol-Be 3000-3015	} too strong
2:30	1 11	"	"			4-4-4	Set 5 " " 3017-3041	
2:51	1 40	"	"			4-4-4	Set 9 " " 3043-3089	
4:51	3:07 W	+56 28	0	8.1	B(5)e	4-4-4	Set 2 " " 3101-3194	good (quality)
						15/10	Set 9 not enough time on expo.	

Date Tues Aug 5-6/58 Observer Kd - Kz Julian Day 2436421
 ① 132.54 54.2 3448.7

① 132.54 54.2 3448.7

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.I.
24332	HD172028	18 32.8	-0 29	I-25	E10340	008	27.2	20 23	22 19	1
24333	HD.186182	19 37.8	+15 02	"	"	"	27.1	22 25	00 25	2
24334	HD:195407	20 26.0	36 39	"	"	"	27.3	00 37	02 55	3
24335	" 9670	01 29.7	+00 26	"	"	"	27.3	03 15	04 47	4
	Flaws	lost	0713							

Dome Temp. 80

Focus 15.60

Dome Temp.

Transparency Conditions

Very poor, really, 208

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
2 19 1 W 21m	-0 26	1	8.1	B3	4-4-4	Set 2. OB Radcliff Sens 3 start 3230 } relay end 3281 } tails at times	good
2 25 2 12 4 W	+15 09	1-2	8.0	B5	4-4-4	" 3 OB " clouds sens 3 start 3384 } end 3506 } ①	good
2 55 3 30 7 W	4 7 50	0-1	7.7	B3C	4-4-4	" 5 Se Shell 3512 3606	good
3 1 1 10 4 E	+00 44	0-1	7.42	F8V	4-8	" 2 Se H _v 3611 3642	weak
					15/10	" 8 0540 Clouds	
IP.H in fig.							
① Estimated counter missed 1 in 3 or 4							
mc	sc	mtw	stw	s	sw	mc	
Aug. 8	+9.0	-58.9	-41.1	-1.0	-51.4	-45.7	-2.2

209

Date Fri-Sat, Aug. 8/9, 1958 Observer BK - Li Julian Day 2436424
 ☉ 135 47 24.0 3452.6

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.
24336	HD 175544	18 50.7	+0° 08'	I-25	E103-a-0	set .008	+23.0	20 32	22 12	1
24337	HD 180587	19 12.0	+10° 49'	"	"	"	22.6	22 16	00 ^h 16 ^m	1
24338	HD 215812	22 ^h 42 ^m	-4° 45'	"	"	"	22.9	00 ^h 26 ^m	01 ^h 26 ^m	1
24339	M.W.C. 402 HD 223501 *	23 ^h 45.0	+61° 39'	"	"	"	22.8	01 ^h 36 ^m	03 ^h 11 ^m	1
622-74*	5 Cas	(1960) 00 ^h 39 ^m .7	(1960) +53° 41'	H&X2		set 20	5/2	03 ^h 50 ^m		
623-74*	0 Cas	(1960) 00 ^h 42.4	(1960) +48° 04'	"		1	5/4		04 ^h 19 ^m	
* HD 223767 BD +61° 25'51		23 47.4	+61° 19'							
** HD 215886 BD -5° 58'66		22 ^h 43.3	-5° 06'							

Dome Temp. 68°F

Transparency Conditions Good

210

Focus 15.52

Exposure Meter inoperative

Sat Aug 9

Se-Mai-56
Li

Dome Temp.

150 stars H13

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
22 12	0 08W	0 13	1.0	7.7	B5	4-4-4	set 2 Radcliffe Prog.	fine
00 12	01 ^h 52 ^m W	10 54	0	8.1	B4	4-4-4	set 3 " "	l weak
01 20	00 ^h 29 ^m E	4° 47'	0	7.11	G5V	4-4-4	Set 2 Se HV	Too weak
02 30	0 0 ^h 12 ^m E	+61° 38'	0	8.2	B3e	4-4	Set 2 ^{WRONG *} Be Programme - Hd	Wrong star
	0 0 ^h 08 ^m W	+53° 38'	6"	3.72	B2V	30"	4540-4260, list D, 1A/sec, 2"/min	
04 30	0 0 ^h 28 ^m W	+48° 04'	6"	4.70	B2V	30"	4540-4260, " " "	
							4 PH	
				7.3	Fo			
				8.3	Ko			

211

Date Sun-Mon 10-11, 1958Observer Li - HJulian Day 2436426

① 137 42 30.6 3455.3

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	F.L.	How long Exp.
24340	HD 10587	19 ^h 12.0	41 0 49	I-25	E103-o-o	Set .008	25.0	21 37	00 37		
24341	" 197434	20 38.6	53 51	"	"	"	24.8	00 44	02 44		
24342	" 1225095	23 58.3	55 00	"	"	"	"	02 52	04 04		
	MWC 409										
	Procyon		0713								

Dome Temp. 73°F

Focus 15.57

Dome Temp.

Transparency Conditions

Clear

212

Ending Time
E.S.T.Hour Angle
End

Declination

Seeing

Ptg.
Mag.

Sp.

Comp.

REMARKS

Quality

0037	222W	+10 54	0-1	8.1	B4	4-4-4	Set 2	OB Radcliffe	good
0244	303W	54 04	0	7.9	Bspe	4-4-4	" 5	Se Shell *	fine
0444	104W	55 19	0	7.6	Bic	4-4-4	" 2	HD Be field check	good
						15/10	" 8		(grounding)
									OK

1 P. H. in fig.

EX. MTR. does not work
until further notice.

243

Date Mon Tues Aug 11/12, 1958 Observer Li - Yai Julian Day 2436427

O 138 40 05.9 3456.7

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.E.
243423	HD 172028	18 ^h 32. ^m 8	-00° 29'	I-25	E103-a-0	set .008	26.9°C	20 ^h 28 ^m	22 39	4
24344	HD 186182	19 ^h 37. ^m 8	+15° 02'	"	"	"	26.7°C	22 ^h 50 ^m	01 00	1
24345	^{Rom 536} HD 211476	22 ^h 12. ^m 3	+12° 24'	"	"	"	26.6°C	01 ^h 09 ^m	02 23	2
24346	H08262; Rom 32	01 ^h 16. ^m 9	+18° 10'	"	"	"	26.6°C	02 ^h 32 ^m	03 44	3
24347	HD 14214; Rom 57	02 ^h 12. ^m 8	+01° 17'	"	"	"	26.6°C	03 ^h 53 ^m	04 ^h 13 ^m	4
24348	H06763; Rom 34	01 ^h 03.2	+05° 07'	"	"	"	26.6°C	04 ^h 23 ^m	04 37	1
	Focus Test		OTB							

Dome Temp. 77°F

Focus 15.60.

Dome Temp. 69°F

Transparency Conditions

clear - clouds in S. 22:13²¹⁴ E.S.T.Not good enough for
phot.

Seeing variable.

nding Time E.S.T.	PI	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
2 39		1 ^h 06 ^m W	-00° 26'	0-1	8.1	B3	4-4-4	Set 2 OB Radcliffe	l weak
1 00		2 ^h 23 ^m W	+15° 10'	0-1	8.0	B5	4-4-4	Set 2 " "	l weak (guiding)
2 23		2 ^h 11 ^m W	+12° 41'	0-1	7.63	G2 V	4-4-4	Set 2 Se. H.V.	l strong
3 42		3 ^h 32 ^m E	+18° 26'	0	7.58	G3 V	4-4-4	Set 2 Se. H.V.	l strong
4 13		4 ^h 10 ^m E	+01° 32'	0	6.17	F9 V	4-4-4	Set 2 Se. H.V.	Good
4 37		0 35 W	+05 26'	0	5.85	F2 V	4-4-	Set 2 Se. H.V.	Good
							15/10	Set 8	
								3 P.H. in Frig + 4 plates.	
								Aug. 13	
								MG SC MTW STW S SW ME	
								+7.5 -58.1 +4.1 +9.9 -58.9 +3.2 +1.2	

Dome Temp. 75°F

Focus 15.60

Dome Temp.

Transparency Conditions

Clear

218

Clouds till 0130

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
002 00W	+10°54'	0	8.1	B4	4-4-4	set 5 OB Radcliffe	Weak
						fast moving clouds starting around 2 ^h 25	
0147E	+0042	0	7.42	F8V	4-4-4	" 5 Se Hv Sel.2 4648-4669 (21)	good
0020E	59 27	0-1	8.2	B3c	4-4-4	" 5 H d Be " 2 4677-4694 (17)	good
					15/10	" 9	(guiding)
						4 P.H. in frig.	
						Ex Mtr. <u>seems</u> O.K.	

Date Thurs - Fri 14/15 Aug '58 Observer — Li Julian Day 2436430.5

① 141 32 59.9 3460.6

[illegible]

Dome Temp...69°

Transparency Conditions

Transparency Conditions *clouds until 03 hrs EST.* ²¹⁸

ading Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
4 01	00 ^h 24 ^m E	+50° 28'	0	4.2	B0nc	4-	Set 2 Se Shell * ^{sun 2} 4804-4821	} strong
4 06	00 ^h 19 ^m E	+50° 28'	0	"	"	4-4-4	Set 8 Se Shell * ^{sun 2} 4825-4842	
							3 plate holders	
							mc sc mtw stw s sw me	
						Aug. 15	+6.4 +5.2 -7.3 +0.3 -0.3 +4.4 -2.2	

219

Date Fri-Sat Aug 15/16 Observer Se - Li Julian Day 2436431
 © 142 30 40.5 3460.6

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.I.
622-74	HD 120315	13 ^h 43.6	+49° 49'	5200	3200	20	4/4	21 ^h 05		
623-74	^{α Cr B} HD 139006	15 ^h 30.5	+27° 03'	"	"	"	4/5	21 ^h 31 ^m		
624-74	^{R Cor Bor} 141527	15 ^h 44.5	+28° 08'	"	"	"	6/4	21 ^h 56 ^m		
625-74	"	"	"	"	"	"	"	22 ^h 14 ^m		
626-74	^{α Cr B} HD 139006	15 ^h 30.5	+27° 03'	"	"	"	4/5	22 ^h 38 ^m		
627-74	^{γ Cyg} HD 194893	20 ^h 18.6	+39° 56'	"	"	"	4/6-5/4			
	^{α Cyg} HD 199345	20 ^h 38.0	+44° 55'	"	"	"				
24354	^{N.W.C. 371} HD 205060	21 ^h 27.7	+42° 16'	I-25	E-103a-0	Set .008	20.1C	(START) 00 ^h 46 ^m	01 ^h 52 ^m	2
24355	^{N.W.C. 376} HD 206773	21 ^h 39.3	+57° 17'	"	"	"	20.0C	(START) 02 ^h 02 ^m		3
24356	^{φ Per}	01 ^h 37.4	+50° 11'	"	"	"	20.0C	03 40	03 45	4
24357	"	" "	" "	"	"	"	"	03 47	03 53	4
24358	"	" "	" "	"	"	"	"	03 55	03 59	4
24359	^{γ Per}	03 ^h 29.4	+47° 51'	"	"	"	20.0C	04 ^h 21	04 ^h 26	
24360	"	" "	" "	"	"	"	"	04 ^h 31	04 ^h 36	

Dome Temp. 62°F

Focus 15.49

Dome Temp. 60°F

uncd focus

Transparency Conditions

Very Good - clouds at 23h EST.
clearing later (~ 00:15 EST)ending Time
E.S.T.

Hour Angle H ₀	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
1 ^h 37 ^m W	+49° 30'	15"	1.66	B3V	30"	4 A/sec Se - Standards	
3 ^h 16 ^m W	+26° 52'	5"	2.2	A05	"	" UV at 4/6 "	
3 ^h 27 ^m W	+28° 17'	5"	5.8(1/2)	F8Ib	"	"	
3 ^h 45 ^m W	"	5"	"	"	"	"	
2 ^h 24 ^m W	+26° 52'	10"	2.2	A05	"	" UV at 4/6	
	+40° 08'	10"	2.2	F8Ib	"	"	
			1.35	A2Ia	"	" clouded out	
52 ^h 42 ^m W	+42° 29'	0	7.1	B5Vc	4-4-4	Set 2, Be Programme - Hd	5335-5348 stray
3 ^h 05 ^m W	+57° 26'	0	7.0	B0nc	4-4-4	Set 2, " "	5354-5366 stray
	+50° 28'	0	4.2	B0nc	4-4-4	Set 2 Se Shell *	2 count v. stray
	" "	0	"	"	4-4-4	Set 5 "	1.5 counts stray
3 ^h 59 ^m 00 ^s 17 ^s E	" "	0	"	"	4-4-4	Set 8 "	1 count fine
	3 p.h. + 8					{ "spare" counter does not always count i.e. went from 52 to 52 1/2, 53,	
4 ^h 20 ^m	48° 02'	0	4.3	B5c	4-4-4	Set 2 Se Shell *	2 count stray
4 ^h 30 ^m	1 ^h 44 ^m E	0	"	"	4-4-4	Set 8 Se Shell *	1.4 count good

~~4:40 PM EST - 2^h - 5:11~~

Dome Temp
 Focus
 Dome Temp.

SW
SE
NE
NW

222½

Dq, Gg, oh showed the Ring Nebula to

160 visitors and demonstrated the telescope

[illegible]

223

Date Sun Aug 17-18/58 Observer L-H Julian Day 2436433

O 144 26 05.3 3464.1

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P	Angle Ind
24364	H.D. 168957	18 17.3	25 01	I-25	E-103A0	set 008	21.0	20 30	21 42		48W
24365	" 180398	19 11.3	12 56	"	"	"	20.8	21 44	23 24		35W
24365F	" 195407	20 26.0	36 39	"	"	"	20.8	23 32			3
	Focus Test		07B								

ome Temp. +65°F

ocus. 15.52

ome Temp.

Transparency Conditions

Good

224

Ending Time
E.S.T.

our Angle
End

Declination

Seeing

Ptg.
Mag.

Sp.

Comp.

REMARKS

Quality

21 42

0 48W

25 01

0

6.9

Bse

44-4

Set 5

Be Prog

Sens 2
5561-

77

stray

23 24

1 35W

13 02

0

7.7

B3hc

444

" 5

" "

78-

fine

36 51

0-1

7.7

Bse

4-

" 5

" "

Solid Cloud.

Wick

15/10

" 9

OK

1 PH in fringe
In last Cloud at 0100 EST

Home Temp. 64°
 Focus 15.47
 Home Temp. 56°F

Transparency Conditions Good

228

Li's help is being appreciated while taking photographs of Delta I + II - BK.

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
21 52	0° 30' W	-10 15	0	8.1	B3e	4-4-4	Set 2 Be-prog. 5910-6060 Sens. 3	fine
0 21	2° 11' M	+5 54	0	8.5	B5ne	4-4-4	Set 2 - 11- 6065-6223 Sens 3	good
2 05	3° 07' W	+36 51	0	7.7	B3e	4-4-4	Set 3 11 30150 (345' hd) Sens 3. 6248-0.146 (2.1u) 6393-205	fine
	couldn't find. to 4.5' (was too bright)		0-1	8.2	B3e	-	Set 3 11 ('night star') (counted once, saw 2 sec).	
4 01	0 02 W	63 07	0	7.5	c B3e	4-4-4	Set 3 11 (51' hd) 532-3:17 672-4:01 sens 3	Weak/guiding
4 36	10 1 W	+524	0	5.85	F2V	4-4-4	Set 3 Set Hw. 705-4:18 sens 2 726-4:36	strong
						15/10	Set 9	OK

1 PM + 11
 me sc mTW STW S SW me
 Aug. 13 +4.9 -0.2 -31.3 -27.5 -1.6 -1.5 +3.3

227

Juno/Wood

Li

8h

Date 19/20th August 1958 Observer Se

- Ngai Julian Day 2436435

© 146 21 34.6 3466.3

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
			1960							
628-75	67 Oph	17 ^h 58.6	+02°56	H/3, Hγ, Hδ, Hε	20			20 ^h 00		
	M.W.C. 310									
24371	HD 177648	19 ^h 00.5	+23° 11	I-25	E103-a-0	008	+23.0	21 ^h 14	21 ^h 55	26
	M.W.C. 331									
24372	HD 192044	20 ^h 07.8	+26° 11	"	"	"	+23.0	22 ^h 11	22 ^h 22	14
	M.W.C. 332									
24373	HD 192445	20 ^h 09.8	+36° 02	"	"	"	+23.0	22 ^h 32	23 ^h 15	37
	M.W.C. 361									
24374	HD 200775	21 ^h 00.4	+67° 47	"	"	"	22.9	23 ^h 58 ^m	01 ^h 16	49
	M.W.C. 366									
24375	HD 203374	21 ^h 16.7	+61° 25	"	"	"	22.9	01 ^h 35 ^m	02 ^h 10	26
24376	HD 10145 Rem 45	01 ^h 34.1	+66 25	"	"	"	22.8	02 ^h 23	04 ^h 20	7
	Focus Test		OTB							

Dome Temp.

Focus 15.53

Dome Temp. 61°F.

Transparency Conditions

SPECTROPHOTOMETER ON BLINK
 plunger not dragging * and diaphragm
 into eyepiece view. "

228

Ending Time
E.S.T.Hour Angle
End

Declination

Seeing

Ptg.
Mag.

Sp.

Comp.

REMARKS

Quality

		+02°55'		400	B5IV	30"		2"/min 4 A/Sec	MR	
21:55	R 26 W	+23°16'	1	7.5	B3e	4-4-4	net 8	Be	Sense 2 6799	} fine (good & weak)
22:02	R 14 E	+26°22'	1	5.9	B8ne	4-4-4	net 2	"	Sense 2 6816	
23:15	L 37 W	+36°12'	1	7.1	B2oe	4-4-4	net 8	"	Sense 2 6825	
01:16	L 49 W	+67°59'	0-1	7.2	B5e	4-4-4	sed 2	"	Sense 2 6843	} fine (guiding)
02:10	L 26 W	+61°41'	0	6.6	Bone	4-4-4	sed 2	"	Sense 2 6849	
04:20	L 17 W	+66°40'	1	8.34	G5V	4-4	sed 2	Se-H.V.	Sense 2 6874	
							15/10	SeD8	Sense 2 6891	} fine (good & weak)
								2 P.H. + 4	Sense 2 6893	
									Sense 2 6910	
									Sense 3 6952	} fine O.K.
									Sense 2 6952	
									Sense 2 6952	

Had trouble at 3:00
 sens. 3 (count too
 fast)

04:18 E.S.T.
 Widespread cloud.
 04:20 E.S.T.
 Clouded out.
 Haze

Date Thu-Fri Aug 21/22 Observer Se-Hi Julian Day 2436437
 @ 148 17 08.2 3468.5

[illegible]

Dome Temp. +68°F

Focus 15.52

Dome Temp. 59°F

Transparency Conditions

Poor

Extinction ~ 1 mag
very bright aurora

230

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
01 ^h 37 ^m W	18° 24' S	0	7.0	Boc	4-4-4	Redcliffe : Haze	Weak
01 ^h 18 ^m E	+10° 45'	0	5.9	Aoc	4-4-4	Se - Shell	Good (1. strong)
01 ^h 43 ^m W	+15° 44'	0	7.3	Aze	4-4-4	Se - Shell	Good
01 ^h 47 ^m W	+44° 11'	0-1	7.2	B15c	4-4-4	Be Programme	fine
01 ^h 41 ^m W	+36° 20'	0-1	4.5	B6c	4-4-4	" "	Good (1. strong)
01 ^h 03 ^m 00 ^s W	+45° 58'	1	4.9	B25ex	4-4-4	" "	Good
02 ^h 03 ^m 07 ^s W	+46° 00'	0-1	5.2	B3nc	4-4-4	" "	fine
03 ^h 00 ^m 04 ^s W	+63° 08'	0-1	7.5	cB(5)c	4-4-4	" "	Good
04 ^h 01 ^m 50 ^s E	+24° 00'	0-1	5.2	B8c	4-4-4	Se Shell &	Good
04 ^h 01 ^m 23 ^s E	+48° 02'	0-1	4.3	B5c	4-4-4	" "	Good
04 ^h 00 ^m 44 ^s E	+49° 26'	0-1	4.64	GOI	4-4-4	Se H V	fine
					15/10		OK
					2 ph + 4		

Date Fr. Sat, Aug 22/23, 1958 Observer BK - L

Julian Day 2436438

© 149 14 56.7 3469.7

[illegible]

Dome Temp. 640

Transparency Conditions Good

232

Focus 1549

Dome Temp. 469.7

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
1 36 - 1 08W	+10 56	0	8.1	B4	4-4-4	Oct 2 Radcliffe prog. Selects 3 7444 (int 7550) for study properly	fine
3 12 0 22W	-02 36	0	6.3	B9e	4-4-4	2 Be prog. sans 2	fine
0 20 1 50W	32 15	0	7.0	B0ne	4-4-4	2 " "	listroy
02 46 0 45W	61 58	0	8.2	B3e	4-4-4	" 5 " Clouds 84	l "
04 45 0 20W	54 17	0-1	8.6	B3ne	4-4-4	" 3 "	l "
					15/10		OK
						1 P.H. loaded	
						+ 8	
						Sat. Aug. 23 - Dq, Li, Mai demonstrated telescope showed M92 (in Hercules) to 170 (approx.) visitors.	
						Very hazy & seeing variable. Later clouded bright aurora.	
Aug. 25	mc	sc	MTW	S	SW	ME	
	+2.2	-5.9	17.8	-5.4	-12.7	+1.9	

Date Mon-Tue Aug 25/26 1958 Observer BK - L Julian Day 2436441
 ☉ 152 08 29.3 3473.5

[illegible]

Dome Temp. 56°

Transparency Conditions Fair

234

Focus 15.46

Dome Temp.

ending Time
EST.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
2 50	0 55W	25 12	0	89	K2	4-4-4 sub 2 AG prog. start 7860	fine
01 20	2 04W	27 57	0	90	K0	4-4-4 " " 8010	fine
02 52	2 36W	12 42	1	7.63	G2V	4-4-4 15/10 Se H.V. clouds while setting 8015	fine
						Clouds star gone at 02 52 8165 sus. 2	cal 2 m
						2 PHs loaded + 4	

Date Tue Wed Aug 26/27 Observer Se - Li Julian Day 2436442
 ☉ 153 06 22.8 3474.8

[illegible]

Dome Temp. $+62^{\circ}F$
 Focus 15.48
 Dome Temp. $+61^{\circ}F$

Transparency Conditions

Fair - aurora after ~ 2 AM EST. ²³⁵
 until dawn

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
2:58 ^h 37 ^m W	$+20^{\circ} 11'$	1	8.29	K3 III	4-4-4	Set 2 Se-GHV Sens 3 8217 8367	Weak
						Set 8 1 count/10 min - sens 3	
TART 00 ^h 46 ^m E	$+59^{\circ} 29'$	4"	6.28	B2 II	30"	4540-4235, list B, 1 A/sec, 2"/min	
AP ^h 30 47 ^m E	$+58^{\circ} 18'$	4"	4.9	B3 II	30"	4540-4260, " " "	
AP ^h 30 35 ^m E	$+43^{\circ} 03'$	6"	4.28	B8 V	30"	4540-4260, list D, " "	
ART ^h 30 53 ^m E	$+38^{\circ} 26'$	6"	4.44	A2 II	30"	4540-4251, " "	
ART ^h 0 53 ^m E	$+53^{\circ} 41'$	4"	3.72	B2 V	30"	4540-4259, " "	
ART ^h 0 43 ^m E		5"	4.70	B2 V	30"	4540-4260, " " light clouds in sky	
3 ^h 10 ^m 08 ^m E	$+63^{\circ} 07'$	2	7.5	cB(s)e	4-4-4	Set 2, Be Programme 8419-8431 sens 2	good
4 ^h 4 ^m 00 ^m 15 ^m W	$+70^{\circ} 45'$	2-3	8.0	B4 ne	4-4-4	Set 2, " " 8433-8450 sens 2	l strong
4 ^h 5 ^m 00 50 ^m E	$+23^{\circ} 59'$	3	5.2	B8 e	4-4-4	Set 2, Se Shell #'s 1 count sens 1	fine
					15/10	Set 8	
						1 plate holder loaded	
						min mc	
						+3.4 +4.9	

Date Wed Aug 27-28/58 Observer Hd - Dg Julian Day 2436443
 ☉ 154 04 17.6 3476.4

① 154 04 17.6 3476.4

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.
[24400]	H D 164284 MWC 278	17	55.3 +4 22	I-25	E10340	008	+22.1	19 51	19 58	2
24401	H D 175863 MWC 308	18	52.3 59 53	"	"	"	22.1	21 12	22 10	2
24402	H D 194335 MWC 343	20	20.0 37 10	"	"	"	22.1	22 18	22 37	4
24403	H D 199191	20	50.4 54 08	"	"	"	22.0	22 47	00 08	1
24404	H D 9105 MWC 13	1 ^h	24.6 +62° 51'	"	"	"	22.0	00 28	01 30	2
24405	H D 21650 MWC 68	3 ^h	24.6 +41° 25'	"	"	"	21.9	01 46	02 26	2
24406	H D 23982 MWC 76	3 ^h	44.3 +63° 11'	"	"	"	22.1	02 56	05 00	4

Transparency Conditions

Poor

230

Dome Temp.

Focus 15.61 - 0.9 = 15.52

Dome Temp.

Landing Time
E.S.T.Hour Angle
End

Declination

Seeing

Ptg.
Mag.

Sp.

Comp.

REMARKS

Quality

9 58	✓ 4m	+4 20	0	4.8	B5ne	6-6	Be Prog set 2	count 8463-4 at lens 1	fine
2 10	W 1 22	+59 57	0	6.9	B4e	4-4-4	" " set 8	start 8467 lens 2. end 8484	fine
2 37	W 20m	+37 20	0	5.7	B3ne	4-4	" " set 2.	start 8486 lens 2 end 8503	strong
0 11	✓ 1° 23"	54 20	0	8.08	Ko III	4-4-4	Se GHV set 2	start 8508 lens 2 end 8525	fine
1 11	✓ 1° 51"	+62° 08'	0	7.5	B(5)ne	4-4-4	Be Program set 2	start 8526 lens 2 end 8543	fine
1 11	✓ 2° 46"	+41° 34'	0	7.2	B5ne	4-4-4	" " set 8	start 8546 lens 2 end 8563	fine
1 11	✓ 4m	+63° 21'	0	8.1	B3e	4-4-4	" " set 2	start 8565 lens 2 end 8580	good (focusing)
						5/10	fast set set 8	fog at the end of the exposure made the last half however	OK
							2PH + 6	US 111.	

Dec. quick motion button sticking.
 Called H. who oiled it. Very dangerous.
 P.H. #3 is not right. Has it been
 dropped? Do not use until checked
 by L. (P.H. in the lab)

229

Date Thu/Fri Aug 28-29/58 Observer Se - H5 Julian Day 2436.444
0155 02 14.0 3477.9

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.I.
24407	HD 199191	20 50.4	+54 08	I-25	E103a0	^{set} 008	+23°C	23 ^h :20	01 12	
24408	" 6833	01 03.9	54 13	"	"	"	+21°	01 33	02 13	1
24409	" 9670	01 29.7	+00 26	"	"	"	20.0	02 49	04 17	
	{Focus Test.		07B.							

Dome Temp. $+68^{\circ} F$ Focus 15.53

Dome Temp.

Transparency Conditions Par

240

0400 Spect. Temp control not turned on.

ending Time
E.S.T.

	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
112	230W	$+54^{\circ} 21$	0	8.08	K ₀ III	4-4-4	Set 2 Se-GHV 8639 #3 8788	
213	044E	54 31	1-2	7.91	K ₁ III	4-4-(4) 2	" " Passing cloud 8800 #2 8818	
417	056W	+00 43	0-2	7.42	F ₈ V	4-4-4 2	Se-Hv 8822 #2 8839	
						15/10 " 8		
							1 P.H. +4 in Frig.	
							Ex. Mtr. O.K. Night would have been hopeless without it.	
							mc sc MTW STW S SW MG Aug. 29 +2.4 -8.4 -21.3 -1" 10.4 -6.3 -23.5 +0.7	

241

Date Fri/Sat 29-30 Aug. 1958 Observer Mai - Li Julian Day 2436448
 0 156 00 11.9 3479.6

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.
24410	HD Rom 448 170737	18 25.9	+26° 36'	I-25	E103a0	Set .008	25.6c	20 ^h 20	00 ^h 11 ^m	L
24411	HD 199185	20 30.4	+54° 08'	"	"	"				
24411	Pomah 35 HD 6833	01 ^h 03.9 (1960)	+54° 13' (1960)	I-25	E103a0	.008	25.7	01 ^h 05 ^m	03 ^h 01 ^m	
63A-76	HD 218440	23 ^h 05.5	+57° 32'	H+X	2	Set .020	6/4	00 38		
24412	HD 8262 Focus Test	01 ^h 16.9	+18° 10'	I-25	E-103-a-0	.008	25.6	03 ^h 12 ^m	05 ^h 00 ^m	L

Dome Temp. 77°F.

Focus 15.58

Dome Temp.

Transparency Conditions

Very Hazy.

242

Cloud in west & NW.

9:40 E.S.T. cloud moving southward

clouds passed by 10:15 E.S.T.

03:20 HAZE TURNS INTO MANY SMALL FAST MOVING CLOUDS

Ending Time
E.S.T.Hour Angle
End

Declination

Seeing

Ptg.
Mag.

Sp.

Comp.

REMARKS

Quality

00° 11'

3^h 57^m W

+26° 28'

1-2

8.90

G8 III-IV

4-4-4

Set 2

Se. - GHV

9:45 Cloud
blotted out
back 9:57Sens 2 8863
Sens 2 8892
calculated 5' interval

Too fast

05° 01'

0^h 08^m W

+54° 30'

1

7.91

K, III

4-4-4

Set 2

Se. - GHV.

8917- 8934.

Sens 2

05° 05'

00^h 18^m E

+18° 26'

1

7.58

G3 IV

4-4-4

Set 2

Se - HV

8935-49.4 solid clouds @ 4:00 EST

Sens 2

HAZE 4:15

Start 4:40

no steady
dark - not
warmed up?

15/10

Set 8

2 P.H.

Exposure meter seems to "fire" (i.e. count) at a point on the integrator scale somewhat greater than 1.0 - Li

Saturday

150 visitors

Dg, Mai & Sh showed M92

Li collected in!

22.30 hours -

clouds

mc sc MTW STW S SW ME

Sept. 2 -0.4 -12.7 -22.8 -12.7 -7.8 -34.8 -3.8

243

Date Tues/Wed 2/3 Sept 1958 Observer L & SR Julian Day

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.
634 - 76	67 Ceph	17 ^h 58.6	¹⁹⁶⁰ +02° 56'	H _R HY	H8) x 2	Set .020	5/5-4	19 ^h 40 ^m		
635 - 76	γ Syr	18 57.4	+32° 38'	HY	x 2	"	5/2	20 ^h 25 ^m		
636 - 76	ε Aqu	14 34.6	-01 23	HY	x 2	"	5/4	20 ^h 42 ^m		
637 - 76	δ Cyg	19 ^h 43.7	+45 02	HY	x 2	"	5/1	20 ^h 59 ^m		
638 - 76	HD 190603	20 ^h 03.1	+32° 06'	H _R	x 2	"	6/3	21 ^h 15 ^m		
639 - 76	α Del	20 ^h 37.8	+15 47	HY	x 2	"	5/3	21 ^h 33 ^m		
640 - 76	α Aql	20 ^h 45.5	-09° 39'	"	"	"	5/4	21 ^h 50 ^m		
641 - 76	π Cyg	20 ^h 45.8	+36° 20'	"	"	"	5/4	22 ^h 06 ^m		
642 - 76	σ Cyg	21 ^h 15.9	+39° 14'	"	"	"	5/4	22 ^h 22 ^m		
643 - 76	α Cyg	20 ^h 40.1	+45° 06'	(H _R HY H _ε)	x 2	"	4/4-3	22 ^h 37 ^m		
644 - 76	14 Cep	22 ^h 00.7	+57° 48'	H _R	x 2	"	5/7	23 ^h 12 ^m		
645 - 76	4 Lac	22 ^h 27.8	+49° 14'	"	"	"	5/5	23 ^h 28 ^m		
646 - 76	5 Peg	22 ^h 39.4	+10° 38'	"	"	"	5/2	23 ^h 45 ^m		
647 - 76	12 Lac	22 ^h 39.7	+40° 01'	"	"	"	5/6	00 ^h 33 ^m		
648 - 76	HD 218440	23 ^h 05.5	+59 32	HY	x 2	"	6/3	00 ^h 09 ^m		

(continued next page)

ome Temp. 67°F

Transparency Conditions

Excellent

244

ocus.....

ome Temp.....

ending Time
E.S.T.

our Angle End START	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0 ^h 10 ^m W +02° 53'		9"	4.00	B5 IV	30"	4960-4760, 4540-4000, list D, 1A/sec, 2"/min	
0 ^h 04 ^m E +32° 37'		10"	3.30	B9 III	30"	4540-4250, list D, " , "	
0 ^h 24 ^m E -01° 24'		10"	4.28	B5 III	30"	4540-4257 , " , " , "	
0 ^h 16 ^m E +45° 02'		12"	2.97	B9.5 III	30"	4540-4260 , " , " , "	
0 ^h 19 ^m E +32° 04'		8"	5.69	B1.5 Ia	30"	4540-4261 , " , " , "	
0 ^h 35 ^m E +15° 48'		6"	3.86	B9 V	30"	4540-4260 , " , " , "	
0 ^h 26 ^m E -9° 39'		6"	3.83	A1 V	30"	4540-4259 , " , " , "	
0 ^h 11 ^m E +36° 20'		8"	4.67	B5 V	30"	4540-4260 , " , " , "	
0 ^h 25 ^m E +39° 13'			4.28	B9 Ia	30"	4540-4260 , " , " , "	
0 ^h 27 ^m W +45° 08'		12'	1.35	A2 Ia	30"	4950-4760-4960, 4540-4000, " , " , "	
0 ^h 20 ^m E -57° 48'		6"	5.50	O9 I	30"	4540-4259 , " , " , "	
0 ^h 26 ^m E +49° 13'		5"	4.64	B9 Ia	30"	4540-4260 , " , " , "	
0 ^h 25 ^m E +10° 35'		5"	3.61	B8 I	30"	4540-4239 , " , " , "	
0 ^h 22 ^m W +39° 58'		5"	5.18	B2 III	30"	4540-4250 , " , " , "	
0 ^h 27 ^m E +59° 30'		5"	6.28	B2 V	30"	4540-4200 , " , " , "	

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(Continued from previous page)

Date 2/3 Sept '58 Observer Sh & Li Julian Day

Plate No.	Object	R.A. 1900 1960	Declination 1900 1960	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.
649-76	AR Cas	23 ^h 28.7	+58° 20'	(HrX 2)		.020	5/5	00 ^h 51 ^m	
650-76	ι And	23 ^h 36.1	+43° 03'	"	"	"	5/4	01 ^h 08 ^m	
651-76	γ Peg	0 ^h 11.2	+14 58	(Hyx 2)		"	5/1	01 ^h 24 ^m	
652-76	θ And	0 ^h 15.0	+38 28	"		"	5/5	01 ^h 40 ^m	
653-76	ζ Cas	0 ^h 34.7	+53 41	(Hyx 2)		"	5/3	01 ^h 56 ^m	
654-76	ο Cas	0 ^h 42.4	+48 04	"		"	5/5	02 ^h 12 ^m	
655-76	ν And	0 ^h 47.6	+40 52	"		"	5/5	02 ^h 28 ^m	
656-76	θ Cas	1 ^h 08.7	+54 56	"		"	5/5	02 ^h 43 ^m	
657-76	ξ Cas	1 ^h 51.5	+63 29	"		"	5/2	03 ^h 02 ^m	
658-76	β Ari	1 ^h 52.4	+20 37	"		"	5/1	03 ^h 22 ^m	
659-76	δ Aet	2 ^h 37.5	+66 10	"		"	5/4	03 ^h 39 ^m	
660-76	35 Ari	2 ^h 41.1	+27 32	"		"	5/5	03 ^h 53 ^m	
661-76	HD 17378	2 ^h 46.6	+56 55	"		"	6/5	04 ^h 13 ^m	

Time Temp.....

Focus.....

Time Temp.....

Transparency Conditions

clear
0400 small clouds in west

246

Ending Time E.S.T.	Hour Angle End START	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
	07 ^h E	+58° 18'	4"	4.9	B3V	30"	4540-4260, list D, 1A/sec, 2"/min	
	02 ^m W	+43° 01'	8"	4.28	B8V	30"	4540-4260, " , " , "	
	01 ^m E	+14° 57'	6"	2.87	B2V	30"	4540-4260, " , " , "	
	0 ^h 06 ^m E	+38° 27'	6"	4.44	A2V	30"	4540-4260, " , " , "	
	0 ^h 09 ^m E	+53° 40'	6"	3.72	B2V	30"	4540-4260, " , " , "	
	0 ^h 01 ^m E	+48° 03'	5"	4.70	B2V	30"	4540-4259, " , " , "	
	1 ^h W	+40° 49'	4"	4.42	B5V	30"	4540-4260, " , " , "	
	04 ^m W	+54° 57'	5"	4.52	A7V	30"	4540-4260, " , " , "	
	01 ^m E	+63° 29'	6"	4.85	B2V	30"	4540-4258, " , " , " red inside field (near last square mark)	
	0 ^h 00 ^m	+20° 36'	6"	2.72	A5V	30"	4540-4260, " , " , "	
	28 ^m E	+00° 08'	4"	4.04	B4V	30"	4540-4259, " , " , "	
	18 ^m E		4"	4.58	B3V	30"	4540-4259, " , " , "	
	0 ^h 03 ^m E	+56° 55'	3"	6.53	A5Ia	30"	4540-4260, " , " , " 2 stars in field (near first field)	

Date Thurs/Fri 4/5 Sept '58 O

Observer.

-Mai

Julian Day... 2436257

© 161 48 36.3 3490.7

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	Star Angle End
24413	HD 217050	22 ^h 52.7	+48° 09'	T-25	E103a0	Sed .008	21.00	00 ⁿ 59 ^m	01 07	50
	HD 217050	"	"	"	"	"	20.80	01 ⁿ 09 ^m	01 15	50
	HD 220300									
	Focus 1928		DTB							

Dome Temp. 66°F

Focus 15.50

Dome Temp. 61°F

Transparency Conditions

Some Haze

Cloud in S + SE.

248

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
01 07	00 50W	+48° 26'	0	5.2	Bz ne	4-4-4	Se 2 Se - Shell Star cloud	Lowest
01 15	00 58W	+48° 26'	0	5.2	"	—	Se 8 Se - " " more cloud	Lowest
							01:30 E.S.T.	
						15/10	Se 5 SKY COMPLETELY OK	
							OBSCURED	
							1 P.H. + 0 (w 12) Closed up at	
							in Frig. 01:50 E.S.T.	
						Sept. 5	MTW ME	
						Aug	-11.1 +5.3	
						Sept. 9	MC SC MTW STD S SW ME	
							0.0 -17.1 +14.3 +0.7 -10.6 0.0 +9.9	
							Fri/Sat 5/6 Sept. 1958	
							Unsettled weather.	
							Left 10:20 E.S.T.	
							Saturday Sept. 6 - Cloudy. 25 visitors.	
							Bk, Dg showed telescope, lectured on	
							"distances in the Universe"	

249

Wellaw SR - Mai
Bok MR

Date Mon-Tue, Sept. 8/9, 1958 Observer Bok MR Julian Day 24364.55

☉ 165 41 31.2 3498.8

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.I.
24414	HD 140728	15 40.2	+52 40	I-25	E103a-D	sel .008	18.5	19 27	19 35	4
								19 36	19 40	4
662 -77	67 Cep	17 ^h 58.6	02 56	HP	γ 8 x 2	.020 (check)	5/5 HA 5/4	20 ^h 00		
663 -77	L Her	17 ^h 38.3	+46 02	"		"	5/4 HP	21 ^h 20		
664 -77	HD 190603	20 ^h 03.1	+32 06			"	6/3			
665 -77	55 Cyg	20 ^h 47.5	+45 58	"		"	5/6			
666 -77	10 Lac	22 ^h 37.3	+38 51			"		23 ^h 34		
24415	HD 215749	23 13.2	+44 57	I-25	E103a-D	.008	17.7	00 ^h 17 ^m	00 35	1
		"	"	"	"	"	17.9	00 ^h 36 ^m	00 46	1
667 -77	ε Cas	0 ^h 39.8	+50 18	HY	x 2	.020	5/5	01 05		
668 -77	ζ Cas	"	"	HY	x 2	.020	5/5		01 31 ^m	
669 -77	γ Peg	0 ^h 11.2	+14 58	"		.020	5/1	01 50		
670 -77	θ And	0 ^h 15.0 ^m	+38 28'	"		.020	5/5	02 11		
671 -77	K Cas	0 ^h 30.7 ^m	+62 53'	"		.020	5/4		02 38	
672 -77	δ Cas	0 ^h 34.7 ^m	+53 41'	"		.020	5/3	02 ^h 52 ^m		
673 -77	ο Cas.	0 ^h 42.4 ^m	+48 04'	"		.020	5/5	03 ^h 11 ^m		

Dome Temp. 60°

Focus 15.46

Dome Temp. 54°F

Transparency Conditions good

renewed chart
in Brown

250
(new
dry cell
in Brown)
(discharged)
renewed not
new to use for
archive) Quality

Hour Angle End Start	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
19 25						set 2	
19 46	50 W	52 30	0	55 A	12	set 7	Wheeler's Prog.
	+02 54		4.00	B 5 IV	30"		
			3.68	B 3 V	30"		
			5.7	B 1.5	30"		
			5.22	B 3 Ia	30"		
			4.67	O 9 V	30"		
00 35	00 13 W +45° 15'	0	6.3		4-4-4	Set 2	same 2 / 9073
00 46	00 25 W +45° 15'	0	"		—	Set 8	same 2 9092
	00 40 E +50° 18'		4.85	B 2 V	30"		
01 3	00 16 E +50° 18'		4.85	B 2 V	30"		
	00 32 W +14° 57'		2.87	B 2 IV	30"		
	00 50 W +38° 26'		4.44	A 2 V	30"		
02 17	01 01 W +62° 43'		4.24	B 1 Ia	30"		
	11 10 W +53° 39'		3.72	B 2 V	30"		
	1 22 W +48° 02'		4.70	B 2 V	30"		

253

Nehls
Hd - *Myi*

Date *Thur - Fri, Sept 11/12, 1958* Observer *RB* Julian Day *2436458*
 ☉ 168 36 33.7 3504.9

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.
24416	Y Dra	18 22.2	+71 17	I-25	E10320	008	16.1	19 33	19 35	2
	Y Dra	"	"					19 37	19 41	
24417	HD 140928	15 40.2	+52 40					19 59		3
								red focus 15.41		
24417	HD 219113 SEBC.	23 ^h 08.3 ^m	+02° 08'	I-25	E10320	sed 008	14.3	00 49	02 35	4
	Focus 15.41		OTB							

254

Focus 15.43

Dome Temp.

2nd Half - Intermittent cloud
not phot. night

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
19 35 2		71 17	0	4.2	Aop	12	set 2 Wehlan per Astor Sins 1, 1 even 7	
19 41	0 18 N					12	" 8 " 1 1 1/2 "	
						4	" 2 cloudy Sins 2 9118-	
2 36	73 27 N +02° 25'	0	8.7	65	4-4-1	Set 2	finder field checked Sins 3 9121 - too fast Sins 2 9133	l weak
						15/10	Sins 8	OK
							4 P.H. + 4	
							01:05 E.S.T. STAR GONE; CLOUD ALL OVER SKY. cleared at 01:40 E.S.T. 02:15 E.S.T. SOME MORE OBSCURING CLOUDS LITTLE PATCH BLOCKING OUT S2 PSC STAR APPEARED 25 IN 02:40 E.S.T. 03:25 E.S.T. HOPELESS	
							MC SC 3 MTW STW SW ME Sept 12 -3.0 -20.6 -12.7 438.9 437.1 -5.5 +0.8	

Dome Temp.

Transparency Conditions

Good

256

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality																																
2 ^h 10 ^m W	+36° 07'	0-1	8.19	K0 III	4-4-4	Set 2 Se GHV 22:47 "slide" not making proper contact on slide cover for spec heat. 9153-9170 sens 2	Good																																
0 ^h 29 ^m E	+45° 17'	0-1	6.3	B9 p	4-4-4	Set 2 WW Peculiar A & X's 9172-9194 sens 2	! strong																																
0 ^h 14 ^m E	"	"	"	"	6-6	Set 8 " " " " 9195-9207 sens 2	Good																																
			7.74	K0 III	4-	Set 2 GHV - Se wrong X 9210- sens 3																																	
031W	+22 57	0	"	"	4-4-4	Set 8 " " 9213 #2 9230	Good																																
056W	56 43	0-1	7.61	K ₂ III	4-4-4	" 2 " " 9232 #2 9250	fine																																
059E	25 52	0	8.09	K0 III	4-4-4	" 2 " " 9255 #2 9272	fine																																
210W	+17 30	0	7.13	K0 III	4-4-4	" 2 " " 9275 #2 9289* #2	fine																																
					15/10	" 8 Windy, last couple of hours.	OK																																
Set Sep 20. Se, Sh, Cg - partly cloudy - found M57 and the moon through coolest at 4000 in. in. sky. The sky was very hazy.						* Had to quit after 11 to leave " was too bright. 2 P.H. in fig.																																	
						<table border="1"> <thead> <tr> <th></th><th>MC</th><th>SC</th><th>MTW</th><th>STW</th><th>S</th><th>SW</th><th>ME</th></tr> </thead> <tbody> <tr> <td>Sept. 15</td><td>-0.9</td><td>-23.4</td><td>+7.2</td><td>+44.3</td><td>-15.0</td><td>-14.0</td><td>+3.3</td></tr> <tr> <td>19</td><td>-1.9</td><td>-27.6</td><td>+28.2</td><td>+64.7</td><td>-18.4</td><td>-35.3</td><td>+1.9</td></tr> <tr> <td>22</td><td>-2.3</td><td>-30.4</td><td>-0.1</td><td>+50.3</td><td>-20.1</td><td>-44.7</td><td>-4.3</td></tr> </tbody> </table>			MC	SC	MTW	STW	S	SW	ME	Sept. 15	-0.9	-23.4	+7.2	+44.3	-15.0	-14.0	+3.3	19	-1.9	-27.6	+28.2	+64.7	-18.4	-35.3	+1.9	22	-2.3	-30.4	-0.1	+50.3	-20.1	-44.7	-4.3
	MC	SC	MTW	STW	S	SW	ME																																
Sept. 15	-0.9	-23.4	+7.2	+44.3	-15.0	-14.0	+3.3																																
19	-1.9	-27.6	+28.2	+64.7	-18.4	-35.3	+1.9																																
22	-2.3	-30.4	-0.1	+50.3	-20.1	-44.7	-4.3																																

257

Date Nov Dec 1958 Sep 22-23Observer MR - Li

Julian Day

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.I.
679-78	67 Ophi	17 ^h 58. ^m 6	+02° 56'	H β , H γ + H δ x 2		set 20	5/5 5/4	19:47		
680-78	α Lyr	18 35.6	+38 45	H γ + H δ , H β		"	3/6 3/7	20:44		
681-78	55 Cyg	20 47.5	+45 58	H β ,		set 10	6/4	21:29		
682-78	HD 183143	19 25.7	+18 12	settings		"	6/7 max	22:20		
683-78	10 Lac	22 37.3	+38 51	4430 + H γ + H δ		"	5/7, 5/6	22:34		
684-78	2 Cyg	20 45.8	+36 20	H γ x 2 + set		set 20	5/5	23:18		
685-78	4 Lac	22 22.8	+49 14	H γ x 2 + set		"	5/5	23:46		
686-78	AR Cas	23 ^h 28. ^m 2	+58° 20'	H γ x 2 + Set		"	5/5	00:34		
687-78	HD 1976	00 ^h 22. ^m 1	+51° 48'	"	"	"	5/7	01:10		
688-78	HD 5394 δ Cas	00 ^h 54. ^m 3	+60° 30'	"	"	"	5/1	01 ^h :39 ^m		
689-78	HD 10516 ϕ Umi	01 ^h 41. ^m 1	+50° 29'	"	+ Set	"	5/4	01 ^h :56 ^m		
690-78	HD 11415 ϵ Cas	01 ^h 51. ^m 5	+63° 28'	"	"	"	5/2	02 ^h :25 ^m		
691-78	16 Tau	03 ^h 42. ^m 5	+24° 10'	"	"	"	5/7	03 ^h 03 ^m		
692-78	17 Tau	03 ^h 42. ^m 5	+24° 00'	"	"	"	5/3	03 ^h 26 ^m		
693-78	18 Tau	03 ^h 42.8	+24° 44'	"	"	"	5/7	03 ^h 49 ^m		

(see next page)

Dome Temp... 66°F

Focus.....

Dome Temp.....

Transparency Conditions Excellent

250

Sat Sept 20-21 200 visitors shown
ring nebulae + moon.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
		very good	4.00	B5 IIc	30"	list A. 4960-4760; 4540-4016	
			0.04	A0 V	"	" A 4537-4013; 4959-4760	
			5.22	B3 Ic	"	" A, B 4960-4760; 4650-3914	
			8.3:	B7 Ia	"	for 4430 B-V = 1.4	
			4.67	O9 V	"	" B 4650-3914	
			4.47	B5 I	"	" D 4540-4260 ←	
			4.64	B9 Id	"	" D 4540-4234	
55°W		4"	4.9	B3 II	"	list E, 4540-4260	1A/sec, 2"/min
36°W	+51° 47'	3"	5.2	B5 II	"	" , 4540-4260	" , "
33°W	+60° 30'	7"	2.0	B0 IIe	"	" , 4540-4260	" , "
04°W	+50° 28'	4"	4.0	B2 pe	"	" , 4540-4260	" , "
22°W	+63° 27'	4"	3.3	B3 p	"	" , 4540-4260	" , "
11°E	+29° 10'	3"	5.4	B7 II	"	list D , 4540-4260	" , "
27°E	+23° 58'	5"	3.81	B6 III	"	" , 4540-4260	" , "
05°E	+24° 42'	4"	5.63	B8 V	"	" , 4540-4255	" , "

decreasing
[48-4358]
4362
increasing

25⁹ (continued from previous page)

Date *Mon/Tues 22/23 Sept* Observer *- Li* Julian Day

[illegible]

Dome Temp.....

Transparency Conditions.....

Excellent

260

Focus.....

Dome Temp..... 59°F

Ending Time
E.S.T.Hour Angle
End
(T.A.P.T.)

Declination

Seeing

Ptg.
Mag.

Sp.

Comp.

REMARKS

Quality

0 ^h 17 ^m W	+24° 19'	4"	4.37	B6V	30"	list D, 4540-4260, 1A/Sec, 2"/min	
0 ^h 35 ^m W	+23° 57'	5"	2.96	B7III	30"	" , 4540-4260, " , "	
1 ^h 12 ^m W	+23° 56'		3.80	B8III	30"	" , 4540-4260 ^{to match 0?} , " , "	

Have just put new chart on Brown for last
1½ tracings (i.e. used about 3 ft of it).

Date Tues Sep 23-24 / 58 Observer rd B. Julian Day 24364.70
 ☉ 180 19 26.4 3525.4

[illegible]

Transparency Conditions

262

Dome Temp.....

ocus... 15.50

Dome Temp.....

125.4

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
19 50		52 30	1	5.5	A0	12	set 2 Wehlau's pec. A star	1 strong
19 56	W 4 05					12	" 8	not working 'strong
20 46	N 3 26	13° 37'	1	7-11	K1 III	4+4-4	Set 2 G H V (se)	fine
23 12	W 3 00	36° 06'	0	8.19	K0 III	4+4-4	Set 2 " "	
23 47	W 0° 24"	45° 13'	0	6.3	B9p	4+4-4	" 2 Wehlau's pec A star	
							Fog + cloud	
							2 PH + 8 in dome	
							MTW ME Sept 26 -23.2 +9.2	

Date Sat Sep 27-28/58 Observer Ad - Li Julian Day 2436474
 ☉ 184 14 33.5 3533.1

① 184 14 39.5 3533.1

[illegible]

Dome Temp. 53°F

Locus 15.42

Dome Temp. 47°F

Transparency Conditions

Fair - bright moon

254

200 visitors, showed M13 and M15 with 74"

- RASC showed Ch 5

Ending Time
E.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
			8.7	G5-4-		set 2 false start count 9405-	l weak.
10:05	1° 04'W + 22° 25'	0			4-4-4	set 8 count 9411-9562 sens 3	
05	1° 29'W + 22° 57'	0	7.74	KO III	4-4-4	Set 2 Se-G.H.V. count 9567-9584 sens 2	good.
02:15	1° 47'W + 29° 05'	0	5.25	G8 III	6-6	Set 2 Se-G.H.V. 1.1 counts sens 1	
04:00	3° 14'W + 56° 43'	0	7.61	K2 III	4-4-4	Set 2 Se-G.H.V. 9588-9605 sens 2	fine
05:05	52°E + 41° 03'	0	7.41	KO III	3-5-4	Set 2 Se-G.H.V. 9606-9623 sens 2	fine
05:00	06°E + 01° 26'	0	6.08	K1 III	6-6	Set 2 Se-G.H.V. 1.1 counts sens 1	fine
05:00	0° 15'E + 21° 07'	0	3.0	B3c	6-6	Set 2 Se-Shell 1.1 counts sens 1	fine
est	3 Pn + 0 in Dome						
	a few clouds at 2:30 for about 30 min						
	3:33 found arc switch still closed from						
	checking integrator balance - estimate about						
	one "count" "lost" checking in, in sequence.						

Date Sun Sept 28-29/58 Observer L-HV Julian Day 2436475

[illegible]

Eme Temp. 54°F

Focus.....15.42.....

Time Temp.....:.....

Transparency Conditions Good

266

Ending Time E.S.T.	Pur Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
20 57	1 52W	49 47	0-1	7.22	G4	4-44	Set 2 Se Hr N comp.	Strong
21 46	2 47W	"	0-1	"	"	4-44	" " S Comp	Strong
23 14	0 05W	56 04	1	7.8	Ape	4-44	" 5 Se Shell star, clouds	Fine
0100 Much light cirrus cloud. Closed Dome. I.P.H. +? in Dome. mc sc s mTw STw SW ME Sept. 29 -2.5 -34.1 -24.3 +1.5 +7.2 -3.5 +4.1								

Date Mon. Jan. Sep 29/82 '88 Observer MR - Li Julian Day 2436476
 ☉ 126 12 27.7 3537.4

[illegible]

Dome Temp. 55

Focus 15.41

Dome Temp. 55

Transparency Conditions

very poor - clouds most of eve.
used clear periods for tests on specphot. - MREnding Time
E.S.T.Hour Angle
End

Declination

Seeing

Ptg.
Mag.

Sp.

Comp.

REMARKS

Quality

0.31

10^h 15 W

+68° 42'

2

7.2

G-6 II 4-4-4

Set 2

Se-HV

9727-9794

good

11^h 15 W

+50° 25'

3

4.2

BOne 6-6

Set 2

Se Shell

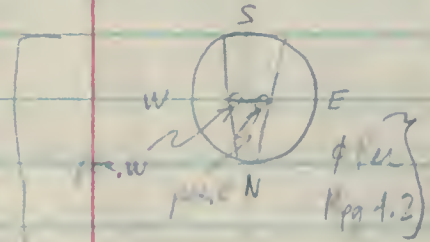
sec 2
1 count
sec 1

good

3 ph + 4

2:10 yellow disk red ring around moon as seen through
the clouds

3:10 still nothing but clouds in sky

not
reproducible
0:51
spec
(clouds)

1 sec W 1 count in 4 sec
1 sec E 1 count in 18 sec
1 sec N 1 count in 18 sec

Date Wed Oct 1-2/58 Observer Hd - VdB Julian Day 2436478
 ☉ 188 10 24.8 3541.8

[illegible]

ame Temp.....

ocus.....

ome Temp.....

Transparency Conditions

278

78
1541.8

Ending Time
E.S.T.

our Angle
End

Declination

Seeing

Ptg.
Mag.

Sp.

Comp.

REMARKS

Quality

20 21

52 W

+74° 42'

0

7.95

K₀ II-V

4+4+4

ph 1

runs 3 crani 9772
to 9883

Good

23 18

20° 30" W

+20° 26'

0

8.7

SS

4+4+4

Set 2

ph 2

9910 to 0090

Weak

~~0 8.69 52V~~

~~Set 2~~

~~ph 4~~

Wrong Star
Can't find right one.

02 46

30 37 W

30 37

00

7.92

GJ IV

4-4-4

" 8

Se Hv

0115 #3

Weak

05 29

26 48 W

26 09

00

8.52

F7 VI

4-4-4

" 2

"

0274
0276
0382 #3

Weak

15/10

" 8

0500 High Cirrus

3 P.H. Plates Needed.

Date Thurs-Fri, October 2/3, 1958

Observer

bk - H ✓

Julian Day

2436479

① 189 09 26.6 3544.0

[illegible]

Dome Temp. 50°F

Transparency Conditions

Poor, haze + cloud

272

Focus 1538

Dome Temp.

Ending Time
E.S.T.Hour Angle
End

Declination

Seeing

Ptg.
Mag.

Sp.

Comp.

REMARKS

Quality

13-56

4 5W

25 25

1

8.74

K₀ III

4-4-4

set 2

Se-G + V

Sens. 3

417

567

good

03 07

300W

29 38

0-1

8.64

G₂ V

4-8

" 2

Se H_v

3

0576

0657

weak

15/10

" 8

0300 Cloud.

OK

1 P. H. + 12. in Dome.

mc	sc	s	mtw	stw	sw	ms
Oct. 3	-5.0	-35.4	-27.0	+27.1	+30.6	-26.4

Sat Oct 4
(200 visitors)

S-L VB 101 visitors at 2 Mostly cloudy. Telescope demonstrating Raytheon

at 9 100 more. All cloudy + rain

In and out of demonstration more than 74°

Fri Oct 3

175 visitors RASC. Clear showed
M15 with 74°.

Date Sun-Mon, Oct. 5/6, 1958 Observer BK - H5 Julian Day 2436482
 ☉ 192 06 45.4 3551.0

[illegible]

ome Temp. 48°F

ocus 15:35

ome Temp. +3.6

Transparency Conditions Very good

274

Delayed start because of trouble in dis-
handswitch. Called to fix it.

Ending Time E.S.T.	our Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
23 12	300	20 11	0!	8.29	K3 III	4-4-4	set 2 Se-GHV seeing poor! 670-800	good
		27 21				4-	set 2 gave 1 count in 10 min. 803-	
				8.49	K0 III		set 5	
03 22	438W	54 53	00	8.7	As Ib	2-2-2	" 8 OB AS FAR WEST 0824 #3 AS POSSIBLE 0939	good
05 16	100W	25 52	00	8.09	K0 III	4-4-4	" 2 Se-GHV. 0942 #2 15/10 " 8 0950	l. weak OK
							2 P.H. + 20?	
							Seeing horrible all night.	
							mc sc s MTW STW LW ME	
							Oct 6 -5.0 -36.9 -28.1 +8.2 +12.7 -31.4 -0.1	

Dome Temp. 47°F

Focus 15.34

Dome Temp. 50°F

Transparency Conditions

hazy
+ clouds

278

Ending Time
E.S.T.Hour Angle
End

Declination

Seeing

Ptg.
Mag.

Sp.

Comp.

REMARKS

Quality

4.67

09 V

30"

 $\frac{1}{2}$ A/sec, $\frac{1}{2}$ " / min

5.50

09 V

"

5.17

09.5 V

00h 42m U + 29° 05'

3

5.25

G8 III

12

Set 2

G H V

good

35m W + 74° 33'

3-2

8.49

K0 III

4-4-5

Set 2

G H V

10 counts sens 3 + 10:22-10:38

10:37-10:26

Sens 2

good

+ 10° 11'

2

4-

Set 2

G H V

10:39-

4:05 - hopeless (clouds)

weak

15/10

Set 8

OK

3ph + 16(?)

2:00 SW quarter of sky, mostly cloudy

3:00 SW quarter of sky, mostly cloudy

3:55 cloudy out

Date Wedn OCTob 8/9 1958 Observer vdB - Hr Julian Day 2436485.
 ☉ 195 04 25.2 3557.9

[illegible]

Dome Temp. 61

Focus 1542

Dome Temp.

Transparency Conditions 5/10 Cloud + Haze.

278

2/10 cloud 10 30 pm + Haze

1/10 11 11 30 pm + Haze

57.9

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
04 37m E	+22° 58'	0-1	7.74	KO III	4+4+4	Set 2 p#2 Se Hi Vel. program	
00 52 E	+17° 29'	0	7.13	KO III	4+4+4	Set 8 Se Hi Vel. program	
					R/10	" 5 Haze, cloud, 11 30 etc	
						3 P. H. + 15	
						Tues Oct 7 45 visitors I year General	
						Wed Oct 8 12 " III year Tr + P.	
						MacRae Class leaves at 9 30 pm	
						Thurs Oct 9 24 visitors II year Tr + P.	
						mc sc s MTW STW JW ME	
						Oct 10 -6.7 -37.6 -30.4 +40.1 +40.1 -32.5 -10.9	
						Saturday October 11, 1958	
						70 visitors. Demonstrated telescope and showed	
						β Cygni. As it clouded up, showed slides	
						and lectured on astronomy. Li, Blk and Dg	

Date Mon/Tues Oct 13/14 1958 Observer — Li Julian Day —

[illegible]

Dome Temp. 43°F

Focus 15.33

Dome Temp. 41°F

Transparency Conditions cloudy until 12:00

280

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
	2 ^m E	+24°10'	4"	5.43	B7IV	30"	4260-4540, list D, few 2"/min, 1A/sec	
	55 ^m E	+23°58'	8"	3.81	E6II	30"	4260- , clouds, " "	
			0	5.04	K1III		Set 2, Se G H V Solid cloud	
							3:00 still " "	
							mc Sc S mTw STW SW ME	
							Oct. 14 -6.0 -25.8 -33.3 -38.2 -34.5 -40.1 -0.9	
							17 -5.5 -41.6 -35.3 -16.4 -4.9 -44.4 +2.4	

281

Date Sat-Sun. Oct. 18/19, 1958 Observer Dg - L Wyne Julian Day 2436495

☉ 204 58 56.9 3577.3

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 and
24454	HD 219633 BD +63° 14' 04"	23 ^h 12.2 12.1	+63° 35' 24'	I-25	E10340	Set 0.016	+12.40	22 15	23 36	3	53W
24455	5 Lacertae	22 ^h 25.4 ^m	+47° 12'	"	"	.008		0 17	0 20	4	21W
24456	"	"	"	"	"			0 21	01 01	4	402W
702-81	"	"	"			Set 20	6/5				
703-81	11deb		16° 18'			"	5/3	33			
24457	GC 5856	4 ^h 42.8	+32° 25'	"	"	.008	12.1	2 06	2 22	1	54E
24458	HD 21771-2			"	"	.008	12.1	2 35	4 35	2	37W
24459	" 416 36 Focus Grav	06 01.3	41 04	"	"	"	12.1	4 41	5 37	3	03W
					OTB						

282

D₂, L showed Pin, Nuclear, then M15
globular clusters to about 190 visitors

Home Temp.....

77.3

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
23.36.3	53W	+63°55'	0	9.2	Fo BoII	2-4	Warning star. new identification by Dg. Mr. Tully. 2/1 set 2 DB program. 2008-	
0 20.43	21W				K5A0	12	set 2	
01.01	4 02W				"	4-4-4	" 8	
			8"			30"	4250 - UV limit	
			10"			30"	4250 - 3390	
2.22	54E	32 30	0	5.94	A3	6-6	set 5	
4 35	37W	44 42	0-1	7.3	K0-A	4-4-4	" 5	
5 37	03W	41 03	0-1	7.4	K0III	4-4-4	" 4 se G.H.V.	
						5/10	" 8	
							4PH's loaded + 8	

ome Temp. 52°

ocus 1541

ome Temp.

Transparency Conditions Fair

284

Ending Time
E.S.T.

our Angle
End

Declination

Seeing

Ptg.
Mag.

Sp.

Comp.

REMARKS

Quality

0000	22W	20 11	0	8.59	K3 III	4-4-4	pet 2	Se-GHV	2108 - approx 16 comets on 2	
0005	12W	9 40	1	40	K2 Ib	12	set 2	Hymer's prog		
0010	14W	47 28	2	4.6 ^W	60-40	4-4-4	7	"		good
0015	17W	24 14	1	6.0 ^W	50-40	4-4-4	set 2	"	usc. 2 22 ^W -22 ^W	good
0020	23E	40 23	2	4.0 ^W	60-45	4-4	set 2	"		good
0027	25E	13 47	1-0	8.94	K2 III	4-4-4	" 5	Se-GHV.	2252 # 3 2407	W.
0046	254W	10 10	0	?	?	4-4-4	" 5	"	2418 # 2 2435	good
0053	116W	27 16	0	7.61	K1 III	4-8	" 2	"	2437 # 2 2455	good
						15/10	" 8			

1 P. H. + 4

mc 30 S MTW JTW SW ME
Oct 20 -5.2 -41.8 -35.9 -4.1 +1.8 -49.5 +0.8

Date Mon Tues Oct 20-21 1956 Observer ^{MR}J.A.H. - Li Julian Day 2436.497
 ☉ 206 58 13.3 3580.1

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.
24467	47 Cyg	20 ^h 31.9 ⁽¹⁹⁵⁰⁾	+35° 05'	I-25	103a-0	set .008	+12.5	19:14	20:44
704-82	"	"	"	"	"	20	"	20:50	-
705-82	5 Lac	22 27	+47 27	-	-	20	"	21:22	-
706-82	ρ And	01 08	+35 25	-	-	"	"	21:50	-
707-82	θ And	00 15	+38 28	-	-	.1 & 10	"	22:06	-
708-82	δ Lac	22 27	+47 27	-	-	10	6-7	23:00	-
709-82	β And	01 08	+35 25	-	-	10	6-3	23:25	-
710-82	16 Tau	3 ^h 42.5	+24° 10'	Hr X 2	"	Set 20	1/2	00:29	-
711-82	17 Tau	3 ^h 42.5	+24° 00'	"	"	"	5/3	00:43	-
712-82	18 Tau	3 ^h 42.8	+24° 44'	"	"	"	6/2	00:59	-
713-82	19 Tau	3 ^h 42.9	+24° 21'	Hr X 3	"	"	5/4	01:14	-
714-82	21 Tau	3 ^h 43.6	+24° 24'	Hr X 2	"	"	6/2	1:35	-
715-82	M Tau	3 ^h 45.1	+23° 59'	Hr X 3	"	"	5/3	1:51	-
716-82	27 Tau	3 ^h 46.8	+23° 56'	Hr X 2	"	"	5/3	2:15	-
717-82	M Tau	3 ^h 45.1	+23° 59'	"	"	"	5/2	2:32	-
(CONTINUED)				NEXT PAGE)					

Dme Temp. 58°F

Scus. 15.39

Dme Temp.

Transparency Conditions only fair - some low cirrus 286

Ending Time E.S.T.	Air Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality	
20:44	50 W	+35° 07	0	6.0:	^{K5} A3	4-4-4	set 5 for Dr Hynek		
-				4.8 ⁵ in	"	30"	λ 4250 to UV " "		
-				4.6 vis	"	"	" " " "		
-				2.0 in	M0 II	"	" " " "		
-				4.6 vis	A2 V	"	λ 4250 to UV; also λ 4000 to 3600 @ 1A/sec slit 2 & slit 10		
-				4.6 vis	K-A	"	at 1A/sec 4000-3600 & reverse		
-				2.0 in	M0 II	"	" " "		
-	34° E	+24° 10"	4'	5.43	B7 II	30"	4260-4540 slit D, 1A/sec, 2"/min -	} field checked on star chart	
-	14° E	+23° 58"	5"	3.81	B6 II	30"	4260-4540, " " "		
-	05° E	+24° 23'	8"-10"	5.63	B8 V	30"	4260-4540, " " "		
-	50° E	+24° 19"	6"	4.37	B6 V	30"	4260-4540, " " "		
-	28° E	+24° 25'	4'	5.85	B8 V	30"	4260-4540, " " "		
-	17° E	+23° 55'	6"	2.96	B7 II	30"	4260-4540, " " "	} not sure if this is M0 or 27 - see note	
-	1° W	+23° 56"	5'	3.80	B8 III	30"	4260-4540, " " "		
-	1° W	+23° 57"	9"	2.96	B7 II	30"	4260-4540, " " "		
NOTE: AT 2:13				checked slit 2 min on circle					

207 (CONTINUED FROM PREVIOUS PAGE)

Date.....Observer.....— *Li* Julian Day.....

Plate No.	Object	R.A. 1900 (1750)	Declination 1900 (1950)	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.
718-82	29 Tau	3 ^h 43.6	+05° 56'	Hrv2		20	6/2	2:50	—
719-82	ε (45) Per	3 ^h 55.6	+39° 54'	"		"	5/1	3:12	—
720-82	T-99 Tau	4 ^h 39.8	+22° 53'	Hrv3		"	5/4	3:31	—
721-82	η (10) Aur	5 ^h 03.7	+41° 11'	Hrv2		"	5/2	3:53	—
722-82	δ (123) Tau	5 ^h 35.3	+21° 07'	"		"	5/2	4:10	—
723-82	γ (67) Ori	6 ^h 15.3	+14° 47'	"		"	5/4	4:29	—
724-82	69 Ori	6 ^h 09.8	+16° 08'	Hrv3		"	5/6	4:53	—
725-82	ε (70) Ori	6 ^h 09.7	+14° 13'	Hrv2		"	5/5	5:16	—
726-82	λ Gem	7 ^h 15.7	+16° 37'	"		"	5/3	5:31	—
727-82	α Ori	5 ^h 53.0	+7° 21'	4500-3550		"	5/2	5:51	—

(1960)

Please note that the hand switch doesn't always work unless grounded to telescope.

Room Temp. 45°F

Transparency Conditions

Transparency Conditions *Clean + cool (!)*

288

Ending Time E.S.T.	our Angle End (START)	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality		
-	5 41 ^m W	+5° 55'	4"	5.36	B3I	30"	4260-4545, list E, 1A/sec, 2"/min			
-	56 ^m W	+39° 52'	10"	2.96	B0.5I	30"	4260-4560, " , " , " , (double?)			
-	30 ^m W	+22° 53'	6"	4.33	B3I	30"	4260-4540, " , " , " ,			
-	29 ^m W	+41° 10'	8"	3.28	B3I	30"	4260-4540, " , " , " ,			
-	15 ^m W	+21° 07'	8"	3.00	B2III	30"	4260-4540, " , " , " ,			
-	14 ^m W	+14° 46'	6"	4.40	B3I	30"	4260-4560, " , " , " ,			
-	24 ^m W	+16° 08'	4" _{var}	4.92	B5I	30"	4260-4565, " , " , " ,			
-	47 ^m W	+14° 12'	4" _{var}	4.35	B3I	30"	4260-4540, " , " , " ,			
-	04 ^m E	+16° 35'	"	3.65	A3I	30"	4260-4540, list D, " , " (too much @?)			
-	3 ^m W	+7° 24'	13'	V=0.91	M2Iab	30"	1A/sec, 2"/min			
4 pH + 0 in dome										
				mc	sc	s	mW	STW	SW	ME
00 27				-5.4	-43.7	-32.7	-27.2	-1.0	-1.2	-1.6

Date *Mon Tues 1958 Oct 27/28* Observer *MR-Li* Julian Day *777*

[illegible]

Dome Temp.

ocus.

Dome Temp. 45°F

Transparency Conditions *clearing not too good*

290

Shutters were here from 8:00 to 9:00

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
		+10 35	6"	3.61	B5V	30"	4240-4510 Dist D <i>slit 20 slit 20 and slit 40</i> 1A/sec; 4A/sec	
		+39 59	"	5.18	B2III	"	" " " <i>slit 20: " ; " slit 40, 5/4</i>	
		+62 46	"	4.24	B1Ia	"	" " " " " "	
		-	8"	4.42	B5I	"	" " " " " "	
		+50 16	"	4.85	B2V	"	" " " " " "	
							<i>solid cloud 00:02 - hopeless 01:00</i>	

Date wa/4 1958 OCT 29/30 Observer S. B. - H. V. Julian Day 2436506

② 215 56 25.8 3597.7

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.
24468	ADS 15942A	22 ^h 22 ^m 4	+36° 57'	25"	103a0	0.08	+8.6	21 ^h 05	21 ^h 15 ^m
24469		22 ^h 58 ^m 2	+43° 31'	"	"	"	+9.0	21 ^h 28 ^m	21 ^h 38 ^m
24470		3 ^h 2 ^m 5	+25° 58'	"	"	"	7.6	23 ^h 03 ^m	02 11
	Found 7.11		0913						

Room Temp. ... 4.5 ...

ocus.....1534.....

Home Temp. 1531

Transparency Conditions perfect

beg 8.30 end 7.30 (visitors)

10:30 —

Clones begin 808

292

[illegible]

Date..... Oct 30/31 1958.....

Observer Ru

..Julian Day...2436507

① 216 56 23.5 3599.7

[illegible]

ome Temp.

ocus. 15 35

ome Temp.

Transparency Conditions

Cloudy until 7:30

294

Ending Time
E.S.T.

our Angle
End

Declination

Seeing

Ptg.
Mag.

Sp.

Comp.

REMARKS

Quality

21 41

34^mW

+17° 01

0

8.5

68

4-4-

Set 5 Hazy ^{OB} program Brighter of a double.
Clouded out

Completely Overcast 22 30

2 P.H. + 0

mc sc s mTw JTw JW ME

Oct. 31 -4.7 -45.8 -40.6 +4.1 -1.0^m -9.5 -4.3

Date Friday Oct 31 - Saturday Nov 1 Observer Se - Ms / Li Julian Day 2436508
 ☉ 217 56 23.2 3601.8

Time Temp.
Time 15
Time Temp.

Home Temp. $+52^{\circ}\text{F}$

bcus. 15.38

Home Temp. $+39^{\circ}\text{F}$

Transparency Conditions

Good.

296

light haze

3601.8

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
							Spectrophotometer giving random response.	
21 ^h 10	1 ^h 40	18° 12' 5"	1	8.33	G5 V	4-4-4	Set 2 Se HV Ex M ₁ set 8	2651 2701
23 ^h 21	1 ^h 15 ^m W	+02° 53'		7.93	G2 V	4-4-4	Set 8 Se HV Ex M ₁ set 8	2709
	0 ^h 5 ^m W	+74° 36'	1.0	8.49	K0 III	4-4-4	Set 2 Se-GHV Ex M ₁ set 9	2767-29.8 Sens 9 2022-3030
5 ^h 37	5 ^h 1 ^m W	+25° 26'	0	8.7	G0	4-4-4	Set 2 Binary	Sens 9
1 ^h	4 ^h 9 ^m W	+9° 15'	0	5.04	K0 III	6-	Set 2 Se GHV	700mils sens 5
							2pk +	

not to them tomorrow
or brown

Date Sat/Sun Nov 1/2, 1958

Observer Li -

Julian Day...2436509

① 218 56 25.0 3603.9

[illegible]

bme Temp. 43°F

bcus. 15.33

bme Temp. 37°F

Transparency Conditions

Good

298

 Ending Time
E.S.T.

 Hour Angle
End

Declination

Seeing

 Ptg.
Mag.

Sp.

Comp.

REMARKS

Quality

19:40

51°E

+62°52'

0

7.8

BOII

4-4-4

Set 2 - OBT p 22

Set 8

3109-3117

 fine
(coarse)
fine

20:3

35°E

+61°44'

0

6.44

B8

4-4-4

Set 2 - spec. Binary (2.5 Hill)

Set 4

3119-3124

fine

20:35

12°E

+45°13'

0

6.3

 B₉p

4-4-4

Set 2 - WW Pic A*

Set 5

3125-3135

strong

21:0

23°W

"

0

"

"

4-4-4

Set 8 -

" "

"

Set 6

3136-3152

strong

21:10

16°E

-00 50'

0

7.53

GRV

4-4-4

Set 2 - Se HV

 23:11 cloud
23:18, 95% of sky covered

Set 7

fine

2 ph + 12

249

Date Mon. June 3/4 1958 Observer A.R.Julian Day 2436511

☉ 220 56 35.0 3608.1

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.
734-85	5 Peg	22 39.5	+10 38	-		set 40	4/2	19:20	
735-85	AR Cas	23 28.2	+58 20			"	4/5	19:49	
736-85	HD 224589	23 28.7	+46 11			"	5/3	20:20	
737-85	10 Lac	22 37.3	+38 51			"	4/5	20:36	
738-85	HD 829	00 10.8	+37 28			"	5/4	20:55	
24481	HD 219634	23 12.2	+61 25	I-25	103a-0	set .008 40	+9.4	21:20	21:40
739-85	HD 829	00 10.8	+37 28			40	5/4	21:50	
740-85	HD 1976	00 22.1	+51 48			"	5/1	22:05	
741-85	5 Cas	00 34.7	+53 41			"	4/2	22:17	
742-85	5 Cas	00 39.8	+50 14			"	4/5	22:30	
743-85	0 Cas	00 42.4	+48 04			"	4/5	22:43	
744-85	8 Cas	00 54.3	+40 30			"	3/5	22:57	
745-85	Φ Per	01 41.1	+50 29			"	4/4	23:13	
746-85	1 Per	01 49.4	+54 51			"	5/1	23:29	
747-85	ε Cas	01 57.5	+63 28				4/3	23:43	

(continued Next Page)

Time Temp.....

Focus.....15.34

Time Temp.....

Transparency Conditions *excellent*

300

^{1P21}
new cell installed in spectrophotometer this afternoon

3608.1

Ending Time E.S.T.	Sun Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
				3.61	B8V	30"	C 4570 - 3810 + 48845 4A/sec 2"/min	
				4.9	B3V	"	4000 - 4600 "	
				6.5	B3IV	"	" 4700 "	
				4.67	O9IV	"	3950 - 4700 "	
				6.6	B2V	"	" - " "	
21.40	100 W	61 43	1	6.44	B8	4-4-4	Spec Bin (8-444) set 2	fine excellent
				6.6	B2V	30"	3950 - 4700 + 48845	
				5.2	B5TV	"	" " "	
				3.72	B2V	"	" " "	
				4.85	B2V	"	" " "	
				4.70	B2V	"	" " "	
				2.0	B0TVe	"	" " "	
				4.0	B2fe	"	" " "	
				5.3	B2V	"	" " "	
				3.3	B3p	"	" " "	

201

(Continued from previous page)

Date Mon/Tue Nov 3/4 Observer - Li Julian Day

Plate No.	Object	R.A. 1900 1960	Declination 1900 1960	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.
748-85	δ (82) Cet	2 ^h 37.5	+00° 10'			40	4/4	00 ⁰⁷ 12:16	
749-85	35 Ori	2 ^h 41.1	+27° 32'			"	4/5	12:39	
750-85	HD 20 336	3 ^h 16.5	+65° 30'			"	4/5	12:57	
751-85	29 Tau	3 ^h 43.6	+05° 56'			"	4/6	01:16	
752-85	30 Tau	3 ^h 46.1	+11° 01'			"	4/6	01:31	
753-85	ϵ (45) Per	3 ^h 55.6	+39° 54'			"	3/6	01:47	
754-85	48 Per	4 ^h 05.8	+47° 36'			"	4/4	02:04	
755-85	μ (49) Tau	4 ^h 13.4	+08° 48'			"	4/5	02:24	
756-85	η (10) Aur	5 ^h 03.7	+41° 11'			"	4/2	02:41	
757-85	114 Tau	5 ^h 25.2	+21° 54'			"	4/5	02:59	
758-85	32 Ori	5 ^h 28.6	+05° 55'			"	4/4	03:21	
759-85	ζ (123) Tau	5 ^h 35.3	+21° 07'			"	3/6	03:35	
760-85	ν (57) Ori	6 ^h 05.3	+14° 47'			"	4/5	03:54	
761-85	69 Ori	6 ^h 09.8	+16° 08'			"	4/6	04:08	
762-85	ϵ Ori	6 ^h 09.7	+14° 13'			"	4/5	04:22	

(Continued next page)

Dme Temp.....

Transparency Conditions

Good

302

Fus.....

Dme Temp.....

Ending Time E.S.T.	Air Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
	START							
h	14 ^m W	+00° 07'	4"	4.04	B2 IV	30"	3950- 4700 + HY + HS, list E	
h	33 ^m W	+27° 30'	4"	4.58	B3 IV	30"	" " " "	
h	16 ^m W	+65° 30'	3"	4.76	B2 IV	30"	" " " "	
	—	—		5.36	B3 IV	30"	" " " "	
h	20 ^m W	+11° 01'	4"	5.03	B3 IV	30"	" " " "	
h	27 ^m W	+39° 53'	8"	2.96	B0.5 IV	30"	" " " "	
	3 ^m W	-47° 34'	5"	4.03	B3 IV	30"	" " " "	
h	41 ^m W	+8° 46'	5"	4.32	B3 IV	30"	" " " "	
h	13 ^m W	+41° 11'	5"	3.28	B3 IV	30"	" " " "	
h	09 ^m W	+21° 54'	5"	4.83	B3 IV	30"	" " " "	
h	28 ^m W	+5° 54'	5"	4.32	B5 IV	30"	" " " "	
h	35 ^m W	+21° 07'	8"	3.00	B2 IV	30"	" " " "	
h	4 ^m W	+14° 47'	7"	4.40	B3 IV	30"	" " " "	
h	34 ^m W	+16° 08'	5"	4.92	B5 IV	30"	" " " "	
h	48 ^m W	+14° 13'	6"	4.35	B3 IV	30"	" " " "	

303 (Continued from previous page)

Date Mon / Tue Nov 3/4 Observer Li Julian Day 2454510.5

[illegible]

304

light-ground fog for 12 hrs before dawn

One Temp. 40°F

[illegible]

Date Tues Nov 4-5/58 Observer L^{DA} - Hr Julian Day 2436572.
 ☉ 221 56 43.1 3610.3

[illegible]

ole Temp.....

Haye

305

2 P.H. + 8

307

Date Nov 6-7/58 Observer -Hv Julian Day 2436514

① 2235705.8 3614.4

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp. 7.3	Starting Time E.S.T.	Ending Time E.S.T.
24485	HD 52071	06 54.7	27 18	I-25	E _{103a} -O	Set 0.008	7.0	0.142	0356
24486	" 63410	07 43.6	26 31	"	"	"	7.0	0.405	0505
	710 = "	15 A	07 B						

Time Temp. +39

Focus.....15.31.....

Time Temp. +34

Transparency Conditions

Clearing at Midnight. 305

Ending Time E.S.T.	Sur Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0356	015 E	+27 12	00	8.37	K ₂ III	4-4-4	Lat 2 Sc-GHV 5318 #8 5369	fine
0505	005 W	26 21	0	7.73	G ₈ III	4-4-4	" 9 " " 5370 #7 5391	fine
						15/10	" 5 1/2	
							1 P.H + 8	
							EX. M+R. WORKING O.K. 11221	
							mc sc s mtw stw sw me	
							Dec. 7 -1.6 -48.8 -44.7 +23.2 +28.8 -27.3 -1.2	

309

Fri-Sat

Se

Date Nov 7th 1924

Observer Ms — Jg Julian Day 2436515

0 224 57 20.2 5618.4

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp. +6.2	Starting Time E.S.T.	Ending Time E.S.T.
24487	H.D. 222 794	23 ^h 38.4	+57° 31'	I-25	103a-0	Sub -008		21.07	21.40
24488	HD 219634	23 12.2	+61 25	"	"	"	+6.2	22.10	22.43
24489	HD 11592	1 ^h 48.7	+10° 08'	"	"	"	+6.0	23.00	00.10
24490	i Per	3 ^h 01.8	+49° 14'	"	"	"	+5.9	00.26	00.30
24491	λ Aur	5 ^h 12.1	+40° 01'	"	"	"	+6.1	00.41	00.52
24492	HD 4318	6 ^h 10.5	-00° 28'	"	"	"	+6.0	01.09	01.22
24493	HD 55515	7 ^h 08.4	+47° 25'	"	"	"	+6.0	01.36	01.52
24494	HD 62301	7 ^h 38.1	+39° 49'	"	"	"	+6.0	02.11	2.30

bme Temp.....+37°F

Good

320

[illegible]

311

Date *Mon/Tues* Nov 10/11Observer *-Li*

Julian Day 2436518

© 227 58 15.2 3621.9

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.
24495	HD 52071	06 ^h 54. ^m 7	+27° 18'	I-25	E-103a0	Set 0.08	6.0°C	2:38	4:36
24496	V ² Can	08 ^h 27. ^m 1	+24° 25'	"	"	"	6.0°C	4:42	5:34
24497	HD 55575	07 ^h 8. ^m 4	+47° 25'	"	"	"	6.0°C	5:44	6:00
	Focus test	OTB							
24497f	"			Set	- .5		3.2	6.9	10.5
				sh. can	15.35		15.32	15.28	15.25

Dome Temp. $37^{\circ} F$

Transparency Conditions clearing after 1:00
clear until 2:44
near 2:50 on

312

[illegible]

213

Date 1958 Nov 19/20 Mon Tue Observer 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.
767-86	✓ Del	20 37.8	+15 47	H8	x2	.020	5/2	18:56	
768-86	5 Cyg	21 15.9	+39 14	"		"	5/3	19:14	
769-86	9 Cep	21 36.8	+61 54	"		"	5/5	19:28	
770-86	14 Cep	22 00.7	+57 48	"		"	5/6	19:44	
771-86	5 Peg	22 39.5	+10 38	"		"	4/6	20:00	
772-86	10 Lac	22 37.5	+38 51	"		"	5/4	20:44	
773-86	12 Lac	22 39.7	+40 01	"		"	5/5	20:56	
774-86	γ Peg	0 11.2	+14 58	"		"	4/5	21:16	
775-86	K Cas	0 34.7	+53 41	"		"	5/3	21:34	
776-86	δ And	0 47.6	+40 52	"		"	5/3	21:48	
777-86	5 Cas	0 40.0	+50 18	"		"	5/4	22:06	
778-86	HD 1976	0 22.1	+51 48	"		"	5/6	22:18	
779-86	ε Cas	0 51.5	+63 28	"		"	4/6	22:35	
780-86	I Per	1 49.4	+54 57	"		"	5/5	22:49	
781-86	φ Per	1 41.1	+50 29	"		"	5/3	23:05	
782-86	δ Cet	2 37.5	+00 10	"		"	5/3	23:21	

Time Temp. 40°F

Transparency Conditions excellent

314

Focus

Time Temp.

Closed at 1 AM. Completely O'cast. H5

Ending Time EST.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
			7"	3.86	B9E	30"	lit 4340-4256, D	1A/sec 2"/min
				4.28	B9Icb	"	4260-4485, D	
	+61 54		5.02	5.76	B2Ib	"	4250-4520 D	
			5.50	B9I	"	"	4240-4530 D	
			3.61	B8T	"	"	4260-4490 D	
			4.91	B9I	"	"	4260-4510 D	
			5.18	B2III	"	"	4250-4520 D	
			2.87	B2IV	"	"	4250-4530 D	
	+62 42		4.24	B1Ia	"	"	4250-4530 D	
			4.42	B5V	"	"	4260-4520 D	
			4.85	B2V	"	"	4250-4530 D	
			5.2	B5IV	"	"	4250-4520 E	
			3.3	B3p	"	"	4250-4530 E	
			5.3	B2V	"	"	4250-4530: E	
			4.0	B2pe	"	"	4240-4530 E	
			4.04	B2IV	"	"	4250- E	clouds!

22/23 Sat/Sun
Date 1958 Nov 29/25 Sat.

Observer S. B. R.

Julian Day 2436532

② 240 04 11.1 36 38.0

[illegible]

Dme Temp. 37°

Ecus. 1.5.26

Dme Temp.

Transparency Conditions clear cloud on H₂O

beg 5.30 CST

6.05 clouded over Altophulus

9.00 cleavS

11.00 interm. thin cl.

316

Ending Time E.S.T.	Bur Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
01-05	18° W	+26° 48'	0	9.39	SSII	4+4+4	SHV pres. P14 pos 2. I cannot get "Tegator balance to work! haze moving in 00:25 Completely Overcast 01:05 Stopped drive clock closed shutter 01:10 Closed completely at 0500 S.P.H. + 0 mc sc s mtw stw sw me Nov. 24 +7.4 -3.0 -2.7 -29.8 -6.8 -9.7 -4.3	

Date Thurs Nov 27-28/58 Observer Ad - Julian Day 2436535.559
0245 07.34.0 3644.6

0 245 07 34.0 36 44.6

[illegible]

Home Temp. +26

Focus.....

Home Temp.....

Transparency Conditions

³¹⁰
Looks fair, but according
to ex-meter very poor.

Ending Time EST.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
2024	12/26	61 45	0	6.44	B8	4-4-4	S. Hill Binary Count 5727-34 Field checks.	Very strong
21	12/25	45 17	0	6.3	B9p	4-4-4	Wahlan p. A 5735-5741 - Hopefully cloudy not	Very strong
		0713				15/10 "8"		
							Dec. 1st	
							MC SC S MTW STW SW ME	
							+14.0 -2.0 -5.8 +1.0 +3. -6.8 +.04	
							Dec. 3	
							MC SC S MTW STW SW ME	
							+14.2 -15.1 -7.0 -9. +1.1 -6. +.03	
							Dec. 5	
							MC SC S MTW STW SW ME	
							+18.0 -17.8 -8.0 -1.0 -.58 -4.9 +.02	

These plates seem too strong
for normal purposes.
What was wrong with
ex-meter? Had.

319

Date Fri Dec 5-6/58Observer MS - MSJulian Day 2436543

0 252 13 15.5 3654.4

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.
24501	No. 831 BD 47° 835	3 22.1	+47° 59	I-25	E 103-0	016		00 21	
24501 J	ϕ^2 Ori	5 31.4	+09 14	I-25	E 103-0	008		00 58	01 10
24502 V	51 Ori	5 37.3	+01° 26'	"	"	"	-2.1C	01 17	01 57
24503 J	δ^2 Can	8 27.1	+24° 25'	"	"	"	-2.1C	02 05	02 14

Date Mon/Tues Dec 8/9, 1958 Observer Li Julian Day 2436546
0 256 17 00.7 3659.2

[illegible]

Dme Temp. +13°F

Transparency Conditions *snow early in the evening* ³²²
clearing ~ 3 thick haze ~ 4
clear ~ 5

[illegible]

Air Temp. $+20^{\circ}\text{F}$

Hum. 15.15

Air Temp.

Transparency Conditions Some haze

324

Ending Time E.S.T.	Air Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality																
12:20	25 W	25 25	0	8.7	G0	4-4-4	see 5 N - Sp bin 5806-848 seals g																	
003	23 W	48 57	0	7.7	A0	4-4-4	" 5 x Par No 612 5850-5859 aus 2																	
				7.1	A0		x Par No 775																	
							Heavy clouds appeared just before exposure started Clouds + haze continue																	
							Closed 05:50																	
							3 PH + 0																	
							<table><tr><td></td><td>MC</td><td>SC</td><td>S</td><td>MTW</td><td>STW</td><td>SW</td><td>ME</td></tr><tr><td>Dec 15</td><td>+30</td><td>-11.6</td><td>STOPPED</td><td>+1.1</td><td>+1.1</td><td>-8</td><td>-1.9</td></tr></table>		MC	SC	S	MTW	STW	SW	ME	Dec 15	+30	-11.6	STOPPED	+1.1	+1.1	-8	-1.9	
	MC	SC	S	MTW	STW	SW	ME																	
Dec 15	+30	-11.6	STOPPED	+1.1	+1.1	-8	-1.9																	
							<table><tr><td></td><td>MC</td><td>SC</td><td>S</td><td>MTW</td><td>STW</td><td>SW</td><td>ME</td></tr><tr><td>Dec. 17</td><td>+32.9</td><td>-14.3</td><td>-14.3</td><td>+50</td><td>+1.38.3</td><td>-7</td><td>-7.9</td></tr></table>		MC	SC	S	MTW	STW	SW	ME	Dec. 17	+32.9	-14.3	-14.3	+50	+1.38.3	-7	-7.9	
	MC	SC	S	MTW	STW	SW	ME																	
Dec. 17	+32.9	-14.3	-14.3	+50	+1.38.3	-7	-7.9																	
							<table><tr><td></td><td>MC</td><td>SC</td><td>S</td><td>MTW</td><td>STW</td><td>SW</td><td>ME</td></tr><tr><td>Dec. 19</td><td>+34.1</td><td>-17.4</td><td>-16</td><td>+41</td><td>+1.34</td><td>-7</td><td>-14.9</td></tr></table>		MC	SC	S	MTW	STW	SW	ME	Dec. 19	+34.1	-17.4	-16	+41	+1.34	-7	-14.9	
	MC	SC	S	MTW	STW	SW	ME																	
Dec. 19	+34.1	-17.4	-16	+41	+1.34	-7	-14.9																	

Tri

Date Dec 19/20

Observer... *Ku*

Julian Day 2436557.

[illegible]

Air Temp. 60°F
 Dis. 15.09
 Sea Temp. -6°F

Transparency Conditions *seeing: poor*

325

Ending Time E.S.T.	Star Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0450	4-W	+26 25	0	8.4	K, III	4-4-4	<i>Hazy seeing < 0</i> <i>set 5</i> <i>6 HV</i> <i>5882</i> <i>Seeing improving slightly</i> <i>High wind + very poor seeing Not much</i> <i>point in continuity closed. 5.00.</i> <i>2 P.H. + 0</i>	

Date Sat-Sun Dec 20/21, 1958 Observer - BK Julian Day

[illegible]

Time Temp.....

Found micrometer
screw unclamped

Closed at 1:00 ^{hazy}
- heavy cloud

328

[illegible]

Date Dec 21/22

Observer... *PH*
PH

...Julian Day...2436559
0268 29 33.9 3665.4

[illegible]

pme Temp. $+13^{\circ}F$

Focus 15.10

pme Temp.

Transparency Conditions Fair

330

Ending Time E.S.T.	Bur Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality																
19:43	43	+47° 52	0	8.1	A ₆	4-	↓ Per # 285 5901-21 Clouds appeared at 19:00 Thick at 19:30 Closed 19:45 4. P.H. + 1 Mostly Clear at 19:45 Cloudy at 19:50 Sec. 22 <table><tr><td>ME</td><td>SC</td><td>S</td><td>MTW</td></tr><tr><td>+36</td><td>-21.7</td><td>Stopped</td><td>+35</td></tr><tr><td>STW</td><td>SW</td><td>ME.</td><td></td></tr><tr><td>+1M32</td><td>-6</td><td>+1</td><td></td></tr></table>	ME	SC	S	MTW	+36	-21.7	Stopped	+35	STW	SW	ME.		+1M32	-6	+1		
ME	SC	S	MTW																					
+36	-21.7	Stopped	+35																					
STW	SW	ME.																						
+1M32	-6	+1																						

Date Dec 25/26/58 Observer -H✓ Julian Day 173

[illegible]

Time Temp.....

Transparency Conditions *Very Good.*

332

Ending Time E.S.T.	Bur Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0355	0240W	+2626	00	8.42	Kr. III	4-4-4	Set 2 #8 - 5931 5982 Se-GHV	
						4- 11 2 #8	5985 5989 Se-HV	
						15/10 11 8	0420 Cloud.	
							2 P.H. + 1	
							MC SC S MTW STW Sec. 29 +49 -24.7 -2 +4 -34 SW ME -7 -4	

233

Date Tues Dec 30-31/58 Observer DH - PH Ad - Hs Julian Day 2426.568
 0 278 40 41.3 3668.6

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.
24510 ✓	BD +49° 900	03 14.7	+49 28	I-25	E103aD	016	-2.9	18 14	19 48
{ 24511 ✓	BD +48.886	03 12.6	+48 17	"	"	"	-2.9	20 05	20 55
{ 24512	BD +51 728	03 16.6	+51 25	"	"	"	-3.0	21 06	22 02
24513 ✓	BD +47° 821	03 19.1	+48 03	"	"	"	-3.2	22 13	22 53
24514	BD +47° 830	03.209	+47 57	"	"	"	-3.3	23 03	23 55
24515	HD 60298	07 28.7	25 09	"	"	008		00 59	
	"						-3.3	01 14	05 08
2 4516 ✓	HD 103 75	11 47.2	38 25	"	"	"	-3.2	05 24	06 28
	{ 7100 - 9) - F O 1B								

Time Temp.....

Transparency Conditions

334

Good

[illegible]

Date Mon Jan 5/6 1919 Observer MR Julian Day 1918.3342

[illegible]

Transparency Conditions

Snow at midnight 33

Focus.....

Time Temp.

[illegible]

Date Thurs. Jan 6-7/59 Observer L.

2436575
Julian Day ~~2436624~~
285 48 48.5 3670.4

[illegible]

Time Temp.....

Transparency Conditions

338

Ending Time:
E.S.T.

Four Angle
End

Declination

Seeing

Ptg.
Mag.

Sp.

Comp.

REMARKS

Quality

20 47

13W

47 46

8.3

A. O.

2:2-2

Set 2 L Pers Cluster 6490

Clouds

$$2\text{PH}_2 + 4$$

MC SC S MTW STW SW ME

Jan. 7. +5 -45.8 -42 -2 -6 -32 0.0

Date Wed-Thur Jan 7-8 Observer Se - Julian Day

[illegible]

Time Temp. 714° F

Focus.....

Time Temp.....

Transparency Conditions

Transparency Conditions *Partly cloudy*

340

Ending Time E.S.T.	Bur Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
		+10° 26	0	7.24	FOV		set 2 Se-HV Exmr #7 6573 <u>SABW</u>	
							MC SC S MTW STW SW ME Jan. 9. +3 -45.2 -46.2 -2 -1.6 -36 +2.	

Date Fr - Sat Jan 9-10 Observer SvB Julian Day 2454210.5

[illegible]

Time Temp.....

342

Ending Time E.S.T.	Bur Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality																																
				8.7	50		PH1 Set 2 Trouble with focusing of Cas. L repaired broken Cas. struts & on Sat. re-collimated 1st																																	
							 A.P.L. <table><tr><td></td><td><u>MC</u></td><td><u>SC</u></td><td><u>S</u></td><td><u>MTW</u></td><td><u>STW</u></td><td><u>SW</u></td></tr><tr><td>Jan. 14.</td><td>+6</td><td>-45.4</td><td>-57.4</td><td>+15</td><td>-6</td><td>-41</td></tr></table> <table><tr><td><u>ME</u></td></tr><tr><td>+2</td></tr></table> <table><tr><td></td><td><u>MC</u></td><td><u>SC</u></td><td><u>S</u></td><td><u>MTW</u></td><td><u>STW</u></td><td><u>SW</u></td></tr><tr><td>Jan. 16</td><td>+6</td><td>-45.8</td><td>-104</td><td>+15</td><td>-3</td><td>-44</td></tr></table> <table><tr><td><u>ME</u></td></tr><tr><td>0.0</td></tr></table>		<u>MC</u>	<u>SC</u>	<u>S</u>	<u>MTW</u>	<u>STW</u>	<u>SW</u>	Jan. 14.	+6	-45.4	-57.4	+15	-6	-41	<u>ME</u>	+2		<u>MC</u>	<u>SC</u>	<u>S</u>	<u>MTW</u>	<u>STW</u>	<u>SW</u>	Jan. 16	+6	-45.8	-104	+15	-3	-44	<u>ME</u>	0.0	
	<u>MC</u>	<u>SC</u>	<u>S</u>	<u>MTW</u>	<u>STW</u>	<u>SW</u>																																		
Jan. 14.	+6	-45.4	-57.4	+15	-6	-41																																		
<u>ME</u>																																								
+2																																								
	<u>MC</u>	<u>SC</u>	<u>S</u>	<u>MTW</u>	<u>STW</u>	<u>SW</u>																																		
Jan. 16	+6	-45.8	-104	+15	-3	-44																																		
<u>ME</u>																																								
0.0																																								

Date Sat Jan 17-18/59 Observer L. B. B. Julian Day 2436586.
 ① 297 01 21.4 3664.6

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.
24519	HD 32963 Focus to G 07 B	05 01.8	26 12	I-25	E103A0	Set 008	1-10.1	22 11	21 11

344

ne Temp. + 8° F

586
64.6

Ending Time E.S.T.	Mr Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
21 11	35W	26 15	0	8.24	G5-IV	4-4-4	18.00-22.00 troubles with collimation and centring star L set 5 Se. HV. hdge 23.10 15/15 no mod because of cloud. 374 - ?	Good.

ne Temp. $+10^{\circ}\text{F}$

Transparency Conditions.....

346

cus.....15.10

ne Temp.....

587
6637

Ending Time E.S.T.	Star Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
2043	057W	4827	0	6.8	B9	4-4-4	Exp 6638-6654 2 Per	fine
2200	209W	4801	0	6.8	B9	4-4-4	X-Mr. 6687 2 Per	fine
							Clouds ~ 2145. Clear later, but more coming.	
							Note: Plates from 17-18 and 18-19 are in two different boxes	
							<u>MC</u> Law. 19 - T. 6 <u>ME</u> +6 <u>SC</u> -45 <u>S</u> Stopped <u>MTW</u> +2.3 <u>STW</u> -1.5 <u>SW</u> -48	

347

Date Mon Tue, 1959 Jan. 19-20 Observer MR - Li Julian Day 2436588
029903 29.7 3662.9

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.
784-88	ϵ Tau	05 ^h 35 ^m .3	+21° 07'	H&X2	Thorn	.20	4/5	22:58	
785-88	γ Ori	06 05.3	+14 47	"	"	"	5/3	23:28	
786-88	69 Ori	06 09.8	+16 08	"	"	"	5/4	23:57	
787-88	δ Ori	06 ^h 09 ^m .7	+14° 13'	"	"	"	5/3	20:50	
788-88	α Gem A	07 ^h 32 ^m .0	+31° 59'	"	"	"	4/3	01:28	
789-88	²¹ 25 δ Mi	10 ^h 35 ^m .0	+35° 27'	H&X2	"	"	3/5	01:40	
790-88	α Leo	10 ^h 06 ^m .1	+12° 11'	"	"	"	4/2	01:55	
791-88	η Leo	10 ^h 05 ^m .2	+16° 58'	"	"	"	5/2	02:18	
792-88	30 Leo	10 ^h 28 ^m .3	-00° 26'	"	"	"	5/5	02:37	
793-88	ρ Leo	10 ^h 30 ^m .6	+09° 31'	"	"	"	5/2	02:54	
794-88	θ Leo	11 ^h 12 ^m .7	+15° 39'	"	"	"	5/4	03:10	
795-88	δ Leo	11 ^h 12 ^m .0	+ 30 44'	"	"	"	4/5	03:37	
796-88	β Leo	11 ^h 16 ^m .9	+14° 49'	"	"	"	4/4	03:50	
797-88	γ UMa	11 ^h 51 ^m .5	+53° 54'	"	"	"	4/4	04:03	
24522	HD 103095	11 ^h 47 ^m .2	+38° 25'	H&X2	Emulsion	.20	-8.0°C	04:15	04:25

Time Temp.....

$$\begin{array}{r} \underline{S} \\ -39 \end{array} \quad \begin{array}{r} \underline{MTW} \\ +26 \end{array} \quad \begin{array}{r} \underline{STW} \\ -.5 \end{array}$$

poor early in evening 348
clear later on
irregular sky cover ~ 4
haze over Toronto from 4:15

Ending Time E.S.T.	Sun Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
			.61	3.00	B2III ^p	"	425V-4540 . Limit-F; 2"/mm; 1A/sec	
			"	4.40	B3V	"	" " "	
	+16° 07'	n	4.92	B5II	"	"	" "	
	+19° 11'	"	4.35	B3II	"	"	" "	
	+31° 57'	"	1.97	AIV	"	"	List A	
	+35° 24'	"	4.51	A7I	"	"	List D	
	+12° 08'	10	1.21	B7II	"	"	(4615)	
	+16' 56"	2	3.6	A0II	"	"	" "	
	-00° 28'	5	5.0	B6I	"	"	" "	
	+09° 28'	4	3.71	B1II	"	"	" "	
	+15° 37'	9	3.19	A2II	"	"	" "	
	+20° 43'	10	2.59	A4I	"	"	S = +20° 44' V?	
	+14° 47'	10	2.21	A3II	"	"	" "	3.5 sec cloud in south
	+53° 54'	10	2.43	A0I	"	"	" clouded	
5	W +38° 00'	0	2.24	G8II	4-4-4	Set 2 Se HV	clouds 5:45	San T
						2 PH & BOX		

Date Jan 22-23/59 Observer -Hv

Julian Day 2436591.

0 302 06 35.8 3660.4

[illegible]

lome Temp.....

Transparency Conditions

350

Earlier periodic cloudiness and extreme wind
Ex.M+r. is sick

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0415	1244W	+19 58	000	7.5	G8 III	4-4-4	Set 2 Sc-GHV 6722 #8	8
0625	1216W	43 18	00	7.5	G8 V	4-4-4	" 8 Sc-HV	8
						15/10	" 5	
							1 P.H. + ?	
							MC SC S MTW STW SW MB Jan. 23 + .5 -44.6 -33 +26 -1.5 -49 0.0	

Date Jan 23/24 1954 Fr/Sat Observer S. B. - Dg Julian Day 2436592
0 303 07 36.2 3659.5

[illegible]

Dome Temp. +8

Transparency Conditions Fine

352

Focus 15.09

Dome Temp. +1

21:50 thin Alt to stratus

22:05 9/10 cloud

22:33 Encl clouds

22:10 10/10 cloud

Ending Time
E.S.T.Hour Angle
End

Declination

Seeing

Ptg.
Mag.

Sp.

Comp.

REMARKS

Quality

4h05W

26°50'

0

7.5

B01E

2+2+2

very close to pier!

OB Prog. Aggregate 17

PH2

S.B.

fine

4.55

43°48' 10-1

8.3

A0

4+4+4

α Per. Prog.

PH2

pos 2. n per progr

fine

clouds around 00 10

3 P.H +8

Dome got stuck a number of times

5 Clamp stuck

plate spotter malfunctioned & got
cold.

Date Jan 25/26/59 Observer DH - H_v Julian Day JD 2436595

① 305 09 34.4 3658.0

[illegible]

Transparency Conditions *Good while it lasted.* 354

[illegible]

Tues.
Date Jan 27-28/39 (Hd) Observer L-H Julian Day 3436595
0 306 10 32.4 3657.2

Julian Day 2436595

① 306 10 32.4 3657.2

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	Angle ind
24529	HD 217312	22 54.8	62 32	I-25	Em300	016	-6.6	18 02	18 44	155
24530	BD 47° 830	03 20.5	47 57	"	"	"	-6.6	19 02	19 42	25
24531	BD. 47° 832	03 20.9	47 25	"	"	"	-6.6	19 46	20 10	53W
24532	BD 48° 938	03 21.0	48 37	"	"	"	-6.6	20 13	20 40	32W
24533	BD 48 933	03 22.7	48 53	"	"	"	-6.7	20 53	21 21	02W
24534	BD 48 949	03 27.3	48 19	"	"	"	-6.8	21 25	21 51	28W
24535	BD 49 876	03 06.8	49 15	"	"	"	-6.8	21 56	22 20	23W
24536	BD 48 906	03 17.3	48 48	"	"	"	-6.8	22 33	23 09	26W
24537	BD 47 846	03 24.6	47 33	"	"	"	-6.9	23 41	00 11	SW
24538	HD 81192	09 17.1	+20 13	"	"	008	-7.0	00 23	00 51	25
24539	" 84937	09 43.5	14 14	"	"	"	-7.0	01 17	01 45	W
	110000	10 17	15 15							

ome Temp. 20°F

ocus. 15.13

ome Temp.

Transparency Conditions

355

Ending Time EST.	our Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
18 44	3 55 W	62 50	0-1	7.8	B ₀₁₆	2-2-2	at 2.013 Prog. Current 7380 at 15 11	Strong
19 42	20 25 W	48 07	0-1	7.9	A ₀	2-2-2	Set 2 L Pers. Cluster	Strong
20 40	20 53 W	47 35	0-1	7.1	A ₀	2-2-2	" 8 " " "	Strong
21 40	31 32 W	49 47	0-1	8.0	A ₀	2-2-2	" 2 " " "	Strong
22 32	02 W	49 03	0-1	7.4	A ₀	2-2-2	" 8 " " "	Strong
23 42	28 W	48 26	0-1	7.0	A ₀	2-2-2	" 2 " " "	Strong
24 3	23 W	49 23	0	7.2	B ₉	2-2-2	" 8 " " "	Strong
25 4	06 W	48 58	0	7.7	A ₀	2-2-2	" 2 " " "	Strong
26 1	452 W	47 41	0	6.6	B ₉	2-2-2	" 8 " " "	L "
27 51	0 22 E	19 57	1	7.50	G ₈ III	4-4-4	" 2 Se-GHV 7562 #7	L weak
28 15	350 W	13 56	0 0	8.65	F ₂ VI	4-4-4	" 8 " HV 7588 #8	L moderate
						15/10	" 5	
							3 P.H.	
							a few L L. after 5 AM.	
							Ex. Mtr. seems O.K.	

Jan. 28 - $\frac{MC}{-1.5}$ $\frac{SC}{-45}$ $\frac{S}{-22}$ $\frac{MTW}{-39}$
 $\frac{STW}{-1.5}$ $\frac{SW}{-50}$ $\frac{ME}{+2}$

1457

① 307 11 29.6 3656.6.

[illegible]

ome Temp. 125°F

ocus 15.16

ome Temp.

Transparency Conditions 0.4

19:10 partly cloudy

358

Ending Time
E.S.T.

our Angle
End

Declination

Seeing

Ptg.
Mag.

Sp.

Comp.

REMARKS

Quality

18° 33'

348° W

62° 48'

0-1

7-5

BOLX

2+2+2

minimised 42-43
numbered 43

OB Agr. # 17 — Spectro B

fine

19° 35'

0° 18' W

47° 47'

1

7-9

AO

2+2+2

PH 4 #2 2 Per Per 19:10 partly cloudy

fine

19° 50'

0° 34' W

48° 36'

1

6-5

B9

2+2+2

#8 " " "

fine

4°

1° 2' W

47° 52'

1-2

8-1

AO

2+2+2

PH 1 #2 " " "

good

19° 50'

1° 2' W

49° 35'

2

7-8

AO

2+2+2

numbered 45 #8 " " "

good

19° 50'

1° 2' W

48° 22'

1-2

7-6

AO

2+2+2

PH 1 #2 " " "

good

19° 50'

17° W

51° 37'

1

7-7

AO

2+2+2

#8 Exp Terminated by clouds

good

law. 30 +.5 -52 -34 +35 -.8 -50 0.0

light plate 3 plate 3 plate 3 plate

Exp n. out of order

Clouds in vicinity of star not work

Date Jan 31 / Feb 1

Observer Ru

Julian Day 10 2436600

① 310 14 17.2 3654.5

[illegible]

Home Temp. $+11^{\circ}\text{F}$

Transparency Conditions Clouds near horizon

300

Focus.....

Home Temp. $+$

Ending Time
E.S.T.

Hour Angle
End

Declination

Seeing

Ptg.
Mag.

Sp.

Comp.

REMARKS

Quality

18 48

$\uparrow$ 15W

+62 48

0

7.8

Bo IV

2-2-2

set 4 0 B programme

Too weak

20 21

$\uparrow$ 35W

+48 52

0

7.9

A₁

2-2-2

st₃ x Per 16) Clouds appeared at 1900 Cloud 1940

Too weak

Cloudy again 2015 Closed

21 50

2 PH +0

Date Sun. Feb. 1-2 1959 Observer L-H5 Julian Day JD 2436601
0311 15 11.7 3653.7

[illegible]

Time Temp. 0°F

Ecus. 15.09

Time Temp. -6°

Transparency Conditions

Good

352

Ending Time
E.S.T.

Bur Angle
End

Declination

Seeing

Ptg.
Mag.

Sp.

Comp.

REMARKS

Quality

18 45	1 17W	62 47	0	7.5	B $\bar{O}$ IV	2-2-2	Set 5	QB. Prog.		L weak
19 42	5 49W	48 26	0	6.8	B $\bar{g}$	2-2-2	Set 2	L Pers. Cluster		fine
20 28	1 28W	48 12	0	7.4	A $\bar{o}$	2-2-2	" 8	" "	"	fine
21 07	2 13W	48 02	0	6.8	B $\bar{g}$	2-2-2	" 2	" "	"	fine
22 16	3 22W	48 06	0	7.9	A $\bar{o}$	2-2-2	" 8	" "	"	fine
23 20	4 27W	48 58	0	7.7	A $\bar{o}$	2-2-2	" 2	" "	"	fine
00 17	5 35W	49 23	0	7.2	B $\bar{g}$	2-2-2	" 8	" "	"	fine
02 30	1 1W	33 00	0.0	7.53	F $\bar{7}$ II	4-4-4	" 2	Se-HV. #8 - 7665??		defiled
04 45	2 115W	43 16	0	.5	G $\bar{o}$ II	4-4-4	" 8	" "	"	in
						15/10	" 5			from 6/12

1 P.H.

Not out will not out

Feb. 2

MC
+1.5
SC
-46.3
S
STOPPED
MTW
+44
STW
-1.8
SW
-52
MW
+4

363

Date Mon Feb 23/59 Observer ^{Bk}_(Hd) MR - Li Julian Day JD 2436602
0312 16 05.4 3653.0

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	Angle and
24558	HD 217312	22 54.8	62 32	5-5	E10340	016	-11.6	18 06	18 42	-17W
798-89	20 Jan	03 43.5	+24 14	H8 x 2		20✓	5/4	19 03		
799-89	HR 1172	3 46.0	+23 18				5/6	19 28		
800-89	HR 1183	3 47.4	+23 35				5/7	19 43		
801-89	34 A HD 21428	3 26.5	+49 22				5/4	20 04		
802-89	HD 21278	3 25.2	+48 55				5/5	20 19		
803-89	" 20809	3 20.4	+49 03				"	20 36		
804-89	" 213062	3 26.0	+49 42				5/6	21 06		
805-89	" 21071	3 23.2	+48 57				5/6	21 28		
806-89	EPer A	3 53.2	+39 54				4/5	21 44		
807-89	2 C Ma A	6 43.4	-16 40				3/3	22 03		
808-89	2 Gem	7 32.0	+31 59				4/3	22 59		
809-89	2 Ori	6 03.3	+14 47					23 25		
810-89	β Gem	7 42.9	+28 07			20/10	4/4			
811-89	π Leo	9 58.1	+8 04			10	6/4	00 52		

Dme Temp. $+10$ Fus. 15.07

Dme Temp.

Transparency Conditions

354

Ending Time
E.S.T.Air Angle
End

Declination

Seeing

Ptg.
Mag.

Sp.

Comp.

REMARKS

Quality

1842

+17W 62 50

1

7.87

B2 IV

2-2-2

Set 2 OB Proj. agg. #17. C+

4

3.86

B7 IV

List D

4210-4540

2/min 1A/sec

4

5.44

B8 V

"

"

6.16

B9 V

"

seems too bright

"

4.67

B3 IV

List F

4.94

B3 V

"

5.30

B5 V

"

5.64

B6 V

"

check HD Number for this star

5.91

B6 V

"

tel. unstable in 2 at this H.A. ~ 2^h 40^m

2.71

B0.5 V

List A

1.41

A1 V

"

1.97

A1 V

"

Both of Gen A & B; B is 1st for (A & B)

1.40

B1 V

"

E & D partially up to

1.00

K0 II

M 2 IV

A 1st Acc2nd Acc

362-500 A

4"

7.7

M 2 III

"

365 continued from previous page

Date..... Observer - 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.
24559	HD 79190	07^h 07.^m5	+56° 02'	I 25	E 10370	set	-4.8°	07:28	02:14
24560	HD 91948	10^h 31.^m9	+60° 38'	"	"	"	11.9°	02:17	02:55
812-89	θ Leo	(1960) 11 ^h 12. ^m 1	(1960) +15° 39'	5000	3520	10	5/4.3	03:05	
	61 UMa	11 ^h 37. ^m 0	+34° 26'			'			
813-89	β Vir	11 ^h 48. ^m 6	+02° 00'	5000	3950	'	5/5	03:30	
814-89	β Com	12 ^h 31. ^m 8	+41° 34'			"	6/1	03:47	
815-89	31 Com	12 ^h 49. ^m 8	+27° 45'				6/3	04:08	
	80 UMa	13 ^h 22. ^m 6	+55° 12'		sliding for	variable			
24561	HD 107053	(1960) 12 ^h 12. ^m 5	(1960) +33° 10'	I 25	E 10370	set	-4.8°	04:22	04:52
24562	HD 114762	13 ^h 07. ^m 5	+18° 03'			"		04:58	

$\frac{MC}{T.5} + \frac{SC}{-47.3} + \frac{MTW}{+8} + \frac{STW}{-1.6}$
 $\frac{S}{ST.125} + \frac{SW}{-55} + \frac{ME}{+25}$

Dae Temp.

Acus. 15.07

Dae Temp. +10°

Transparency Conditions *clear, cold*

N 5:40 clouds in west

366

Ending Time E.S.T.	Star Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
02:14	55°N	155°45'	1	7.46	A6	4-4	Set 2 <i>Platypus</i> 8x8	*
02:55	55°N	60°48'	1	4.37	F8	4-4	Set 1	*
			8	3.4	A2V		MR Ltd. 4P/sec, 2"/min. 5000-3600A	
				5.5	G8V		" no star "	
				3.8	F8V		" "	
			var	4.3	G0V		" "	
			1/2	5.1	G0III		" "	
				4.0	A5V		" "	
02:56	15°W	+32°42'	0	6.8	A5	4-4	Set 2 <i>Kep</i> 8x8	*
		+32°42'	0	7.6	F7E	4-4	Set 1 <i>de HV</i> 5:44 clouds in west	*
							4 p.H. + Box 4	

* In closing the slit to 008 the observer had turned the drum a full revolution counter-clockwise so that the slit was completely closed — nothing on the plate. — Hd.

Date.....Feb 5/6

Observer.....Ru

Julian Day.

[illegible]

Time Temp.....

Transparency Conditions *Clouds until 20.00* 365

Ending Time E.S.T.	Bur Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
2155	3 ^h 30W	48 50	0	7.9	A ₁	2-2-2	x Per 167 set 5 STRONG WEST. WIND MAKES guiding difficult in dec.	(dir a slt) fine
2214	3 ^h 35W	48 10	0 ⁺	7.2	B ₉	2-	" 831 " Clouded out. 2 PH + box + 4	Nothing
							$\begin{array}{ccccccc} \underline{MC} & \underline{SC} & \underline{MTW} & \underline{STW} & \underline{S} & \underline{SW} & \underline{ME} \\ Feb. 6 & +.6 & -48.1 & -1 & -.6 & 3TPD & -55 +25 \end{array}$	

Date February 6/7, 1959

Observer

19 - Se - Dg

Julian Day

[illegible]

Time Temp. + 3°F

clear

370

Speller box not wanting to rotate.

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
1:20	" 49 W	+45° 06	0	7.2	B9	2-2-2	set 5 } of Persei cluster ^{exp. m. m. 7784}	fine
2:55	" 24 W	+47° 48	0	7.8	A0	2-2-2	set 5 } exposure meter does not fire	fine
2:55	" 33 W	+49° 03	0	7.4	A0	2-2-	set 5 } even when pressing "read" button	Q.P.
4:0	" 51 W	+29° 19	0	7.7	G8 V	4-4-4	set 2 Se-HV } ^{reports} faintly	split out 1 week
4:20	" 08 W	+33° 02	0	7.5	F7 V	4-4-4	set 8 Se-HV } ^{reports} faintly	of commission 1 week
4:30		+44° 05	0	8.2?	F5	+	set 5 Kapteyn 8" x 8"	Two weeks
						15/10	set 8 faintest clouded out.	from 10/10
							closed dome at 02:20 EST	
							1 P.H. + box	

SUN - MON

 (Li^+)

Date. Feb 7/8 1959.

Observer...D.M.

Julian Day

[illegible]

Time Temp. +3

Focus 15.12

Time Temp.

Transparency Conditions

372

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
2137	—	+49 36	0	7.8	A0	2-22	No. Count 7370 X Exp rate not used. a Per	weak
2230	+07 ^W	+51 37	0	7.7	A0	2-4	Plate unspotted / Clouds at 2222	Too weak
							Two Photo-holders loaded with <u>unspotted</u> plates	
							One Photo-holder missing	
							2PH + 4	
							Plates from Fri - Sat & Sat - Sun in two boxes	
							FRID 9 MC SC MTW STW S +1.6 -49.2 / / +1^m53.9^s	
							SW ME MC SC MTW STW S SW ME	
							Feb 11 +1.6 -49.8 -1.2 7.5 -2^m6^s +2^m6^s +17	
							Feb 13 +1.5 +9.4 -2 +4.1 +3	

Date Feb 13/14, 1959 Observer vdB Julian Day 173

[illegible]

Dome Temp. 33°F

Focus 15.25

Dome Temp.

Transparency Conditions clear

374

11:30 Cirrostratus cloud.

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
20°50'	2°44'W	+49°09'	0	8.4	A4	2+2+2	pos 5 & Persei program	good
21°30'	3°24'W	+70°46'	0	7.8	A0	2+2+2	"	good
21°55'	3°45'W	+90°08'	0	7.2	B9	2+2+2	"	good
21°55'	4°35'W	+51°36'	0	7.7	A0	2+2+2	" exp. Termin. by clouds	good

4 P.H.s loaded with
spotted plates + 4 in carton

<u>Feb 16</u>	<u>MC.</u>	<u>SC</u>	<u>MTW</u>	<u>STW</u>	<u>S</u>	<u>SW</u>	<u>ME.</u>
	+1.5	-33.3	-10	-1.5	\	-43	+1

Plate spotter out of order; plates not spotted

Dome opened by hand.

Sp. this O.K. W to left alone in for hel
light on P.P.P.

bme Temp.....

Transparency Conditions

37

[illegible]

$$F_v / s_a T$$

Time Temp.
.....
Time Temp.

Angle
had
26
18:0

Date Sat Feb 21-22/59 Observer Hd-L-Dg 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
24577	L Per. # 970 BD 48° 9' 44"	03 24.9	+48 16	I-25	E103aD	016	-7.0	18 54	20 04	3	23
24578	L Per. # 651 BD 48° 9' 09"	03 18.2	48 58	I-25	"	"	-7.0	0 15	21 55	4	20
24579	H.D. 79190	09 07.5	56 02	"	"	008	-7.0	22 03	23 33	1	09W
24580	" 82569	09 27.7	61 20	"	"	"	-7.0	23 37	01 25	2	41W
24581	HD 106516	12 10.0	-09° 43'	"	"	"	-6.9	01 37	2 45	3	7E
24582	HD 104556	11 57.4	+43° 34'	"	"	"	-7.0	02 55	03 31	4	20S
					ML	SC	MTW	STW	S	SW	ME
Feb 23-					+1.6	+1.1	-30	-7	-7	-8	+3

I 12 focus would be 12.90, tilt 20.25.

Transparency Conditions

350

Home Temp. $+10^{\circ}\text{F}$

ocus.....15.13.....

Home Temp. $+07^{\circ}\text{F}$

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
04 ³⁰	N 2-23	48 25	0	8.1	?	2-2-2	Per Cl. 51-20 11 22 11 22	
05 ²¹	4 20W	49 05	0	8.4	A4	22-2	" "	
03 ³³	0 09W	55 46	0	7.46	A0	44-4	Kapetyne 8X8	
01 ²⁵	L 41W	61 03	0	7.43	F0	44-4	" "	
02 ⁵⁰	17E	-10° 04'	0	6.57	F6V	4-4-4	Se HV	
03 ⁰⁰	20W	+43° 13'	0	7.50	G8V	4-4-4	set 5 " " ended by clouds	
						15/10	set 8 focus test	
							47 H. + 0	

Focus
bad

fine
thing

Sun Feb 22 Changed to I-12

Note from wand K
Feb 19-20.

I 25 focus was 15.13
tilt " 23.15
I 12 set focus 12.90, tilt 20.25

Note In changing cameras I am pretty sure that I found
the focus at 15.63 instead of 15.13. If so, it was set the
previous night at 15.59 instead of 15.09. Focus test will tell. Hcl

361

Date Tues Feb. 24-25/59 Observer L-H Julian Day 176

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
24583	BD. 49° 877	03 07.2	50 03	I-12½	E-103A ₀	^{set} .016	-5.5	19 12	20 52	2	40W
24584	BD 29° 1908	09 25.2	29 44	"	"	"	-5.5	21 03	01 03	3	135W
24585	BD +30° 2175	11 29.8	29 59	"	"	"	-5.8	01 11	04 21	4	85W
24586	HD 125709	14 16.1	27 01	"	"	.008	-5.7	04 46	05 36	5	10W
	} Focus Test. 0713										

ome Temp. $+10^{\circ}F$

ocus 12.90

ome Temp.

Transparency Conditions

382

Some faint air over before down
clouds in S.W. " "

Ending Time
E.S.T.

our Angle
End

Declination

Seeing

Ptg.
Mag.

Sp.

Comp.

REMARKS

Quality

20 52

3 40W

50.13

0

9.0

F5

1-1-1

L. Pers. Cluster

01 03

0135W

29 26

0

9.93

G0

1-1-1

KAF5 Prog.

fine

04 21

0250W

29 37

0

9.78

G5

1-1-1

" "

fine

05 36

0112W

26 45

0

7.46

A2

2-2-2

KA 8x8 Set 5

strong

8/6

" 9

3 P.H. + 4

Date Wed Feb 25-26 / 59 Observer Se - Hr Julian Day

[illegible]

bme Temp.....

384

Feb. 27 - $\frac{MC}{+6}$ $\frac{SC}{-3.5}$ $\frac{MTW}{-2}$ $\frac{STW}{-3}$ $\frac{S}{-23}$ $\frac{SW}{-6}$ $\frac{ME}{+2}$

Fr/sat

Observer.....vclB

..Julian Day

[illegible]

Time Temp.....

Focus.....

Time Temp.....

Transparency Conditions *Hazy, partly cloudy*

closed up and left 19:20

386

Ending Time
E.S.T.

Air Angle
End

Declination

Seeing

Ptg.
Mag.

Sp.

Comp.

REMARKS

Quality

Date Sun Mar 1-2/59 Observer L-Hr Julian Day 173 e Temp. 16

[illegible]

Home Temp. +32°F

ocus 12.90

Home Temp.

Transparency Conditions

380

Start delayed by clouds and haze

Ending Time E.S.T.	our Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0136	0212W	44°33'	0	9.88	F7	1-1-2	K.A.F.S.	good
0456	0224W	44°32'	0	9.48	F8	1-1-1	" #9 73 Counts	strong
0543	0142W	11°25'	0-1	7.9	F5	2-4	Sets K A8x8 n.p.rec. #8 7974 4 Counts 0520 Clouds	fine
						8/6 "9		
							1 P.H. +4	
							721111.2 MC SC MTW STW S SW ME +6 -6.5 -19 -5 Stop 0 -13' +3	

Date Mon-Jun 1954 Mar 2/3 Observer MR Julian Day

[illegible]

Transparency Conditions

390

Dome Temp. 33°F

[illegible]

Date Wed - Thu 1959 March 4/5 Observer Se - Hr Julian Day 19590304.5

[illegible]

Dome Temp. + 24/

Transparency Conditions

Clearing at 21.00

392

Considerable Haze + Cloud after Midnite

Ending Time H.M.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
21.52	06 E	+60° 22	0	7.34	G5	2-2-2	Set 5 K8x8 E.H. 8166 Set 7	too strong
22.08	16 E	+60° 18	0	7.37	F8	2-2-2	Set 5 K8x8 EM 8177 Set 7	too strong
0332	0345W	+44 06	0	8-2	F5	2-2-2	Set 5 K8x8 EM 8190 Set 8	strong
						8/6	" 9 8203	OK
1 P.H. Loaded.								
Plates washed.								
							$\frac{MC}{+6}$ $\frac{SC}{-9}$ $\frac{MTW}{-54}$ $\frac{STW}{-1.5}$ $\frac{S}{-13.3}$ $\frac{SW}{-12}$ $\frac{ME}{+2}$	

Date Sat Mar 7-8/59 Observer Ad -BK Julian Day 171.5

[illegible]

Dome Temp. 20 F

Transparency Conditions

Focus 12.90

Dome Temp. 12

spots overexposed

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
21 28	W 4 52	51 30	0	9.0	A ₃	1-1-1	α Per Cl. at 19 16 count 8207. Counter failed. Est. 30 counts run 9	fine
22 49.2	E 7 ^m	44 23	1	9.72	G8	2-1	KAFS count 8226-8256	fine
01 54.3	N 2 58	44 00	1	9.85	F9	1-1-1	" 8257-8302	strong
05 5	2 52	29 40	0	10.08	F8	1-1-1	" cloud from Sat 4, 8308-8344 clouded out.	strong
						8/6		etc.
						1 PH + 8?		

Date Mon Jun 15 1953 Mar 9/10 Observer M.R. - Li Julian Day 153

[illegible]

Dome Temp. $+16^{\circ}\text{F}$

Focus.....

Dome Temp. $+12^{\circ}\text{F}$ Transparency Conditions *high cirrus in spot*

396

An excellent evening to observe.

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
22:25	5:37W	$+49^{\circ}22'$	0	9.2	A0	1-1-1	<i>x Per. Cl. set 5</i> <i>after 23 counts</i>	<i>fine</i>
22:34	1 ^h 34 ^m W	$+44^{\circ}35'$	0	8.52	G3	1-1-1	KAFS - SA 29, set 2 8397	<i>fine</i>
22:41	5:51 ^m W	$+44^{\circ}52'$	0-1	9.59	F4	1-1-1	KAFS - SA 30, set 2 8436 - 8461 set 9	<i>fine*</i>
22:47	0 ^h 2 ^m W	$+59^{\circ}32'$	2-3	9.69	G8	1-2	KAFS - SA 15, set 2 8465 - 8507 set 9	<i>OK (guiding)</i>
22:50	1 ^h 37 ^m W	$+59^{\circ}39'$	2-0	9.45	F5	1-1-1	KAFS - SA 15, Set 2 8511 - 8542 Set 9	<i>fine</i>
						8/6		
			4 pH + 0					<i>* Comps are weak</i>

Date Mar 10/11, 1959 Tue-Wed Observer BKth - H^v Julian Day me Temp

[illegible]

Dome Temp. 26°

Focus.....12.90

Dome Temp.....

Transparency Conditions

398

[illegible]

Date March 13/14 Fr/SAT 1959 Observer vdB - Dg Julian Day

[illegible]

Date Mon Mar 16-17/59 Observer L-Li Julian Day 165.5

[illegible]

1403

Date Wed-Th March 18-19 Observer Se-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 End
24618	HD 82969	9 ^h 30.2	+60 39	E-12	E10300	Set -008	-1.2°C	20 : 50	21 : 10	3	3
24619	HD 91948	10 31.9	+60 38	"	"	"	"	21 : 20	22 : 40	2	2
24620	BD +45 1753	9 36.7	+45 30	"	"	Set -016	-1.4°C	22 : 20	01 22	1	1
24621	" " 2137	13 50.1	45 13	"	"	"	-1.3°C	01 35	03 53	2	2
	new 7.5	0 73				"					

ome Temp. +26°F

ocus.....

ome Temp. 26

Transparency Conditions

Good (20:45)

clouds earlier

404

Ending Time
E.S.T.

our Angle
End

Declination

Seeing

Ptg.
Mag.

Sp.

Comp.

REMARKS

Quality

21:12

" E +60:23 1 7.34 G5 2-2-2 set 5 KA 8x8

21:40

" 26° E +60 19 1 7.37 F8 2-2-2 set 5 " Some Clouds

01:02

309W +45 12 1 9.87 B8 1-1-2 set 5 KA FS

03:53

44 54 2 9.57 F6 1-1-1 " 5 " 32 counts # 9

4/3 " 9

4 P.H. + 8.

Haze + clouds T 4:00
clear at 5:30.

Date Sun Mar 22-23/9 Observer Hd-Hv Julian Day 100

[illegible]

ome Temp. 18 F

ocus.....12.90.....

ome Temp. +14

Transparency Conditions *Excellent*

406

[illegible]

SPECTROPHOTOMETER

Observer

Julian Day

[illegible]

408

Ending Time
E.S.T.



20"

ending
letter

409 1958;

Sh = David Sherr

Gg = William Greig

My = Peter McConkey

Mai = Helge Mairo

Lix = Loren Linstrom

Dg - Demargue

L - Longwell

Mr - Harkins

Ru - Russell

Hd - Harkins

vd - van der Burgh

Se - Seale

MR - Mackay

DH - David Hagg

410

Se GAV { Dr. C. C. C.

α Per - W Per

DB - 8.14.1.

H. L. Bean

No¹ Bin } Mrs. Kothcott.
or N Ben }

Pa 8x8 etc.)

Page 1

Read the remainder of
 the dividend as D
 when table reads, for
 example, $\frac{.347911}{.348}$
 (for $5^{(1)}21$), then
 any more than 500 —
 the last three digits, do
 not be rounded to
 348.