

Focus - centre to violet - shorten the focus - increase micrometer reading.

3

Dome Temp

Foot

Dome Temp

Hour angle

Lat

ome Temp.....

Transparency Conditions.....

ocus.....

ome Temp.....

our Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
David Dunlap Observatory 74" Logbook Vol 25 Plate Nos 22320 - 23283 June 1955 - July 1956							

Dome Temp. ~~+70 F~~

Transparency Conditions

Focus ~~1572~~1955 May 31. Sky never was clear long enough
to make opening - up worthwhile 12:15 E.D.T
Mo.

01.00 Completely Cloudy - K

Dome Temp.

iding Time
E.S.T.

P.

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

	MC	SC	MTW	STW	S	SW	ME
May 30	+27.2 ^S	-27.6 ^S	-2 ^m	+11.2 ^S	+3.6 ^S	+31.2 ^S	+4.0 ^S

7

Date 1955 June 1-2 Wed-Thurs. Observer Ws - K Julian Day 24352.60
 0 70 37 43.5 3447.6

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.
22320	HD 97438	11 07.7	+60 18	I42 $\frac{1}{2}$	$\Sigma 103a0$	.016	18.9°	21 12	23 05	2
22321	BD +45°2344	15 48.6	+45 00	"	"	"	18.8°	23 15	00 45	2
22322	HD 154528	17 00.9	+77 48	"	"	.008	18.6	01 05	01 13	3
22323	BD -0°3584	18 48.4	-00 41	"	"	.016	18.7	01 33	03 33	4
	Focus Test	O.T.B			"	"	18.5			

Dome Temp. $+58^{\circ}$

Focus 12.939

Dome Temp. $+54^{\circ}$

Transparency Conditions

Good - slight cloud in West.

23.21 - lovely moonlit night.

0.00 Cloud in East + North

8

Hour	Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
05	17	+59 58	0	9.81	A ₀	1-1-1	Set 25 KAFS prog. 8x8"	fine
45	17W	+44 49	0	9.67	F ₃	1-1-1	Set 8 " " slit at 14 1/2?"	fine
13	37W	+77 42	0	6.7	A ₀	2-2-2	Set 5 Spec. Bin	lousy
33	04W	-00 38	0	9.96	O ₈	1-1-1	Set 2 O.B. - check field?	fine
						4/3	Set 8	
							wrong star. Identity uncertain. Set 5 m off.	
							4 PM + 8 in Fwig.	
							How M.	

9

Date Thu-Fri June 2-3, 1955 Observer O-K Julian Day 243526.1
0 71 35 11.1 3446.5

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.
22324]	HD 97438	11 7.7	+60 18	T-12	E103a-O	^{Sut} .016	+22.0	20 51	21 21	1
22325]	HD 135721	15 11.5	+60 19	"	"	"	+22.1	21 25	22 35	1
22326]	HD 135962	15 12.9	+59 49	"	"	"	+22.0	23 42	00 56	3
22327]	HD 135741	15 11.6	+59 56	"	"	"	+22.0	01 02	02 02	3
22328 [	V805 Aql.	19 00.7	-11 48	"	Hi-Speed	.008	+21.9	02 23	03 23	4
	Focus Test	O.T.B.			Hi-Speed Plate	.008				

Dome Temp. +65°F

Focus 12940

Dome Temp. +59°

Transparency Conditions

Clear

0.00 Thin cloud in West

1.00 North obscured by thin cloud

3.00 Very Hazy

10

Time R.T.	Hour End	Angle	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
21:51	3	35W	+59 58	0-1	9.81	A8	1-1-1	Set 2 KAFS 11 ins 125	Strong
35	0	48W	+60 04	1-2	9.60	A8	1-1-1	" 8 " 134	Strong
56	2	08W	+59 32	1-2	9.69	G8	1-1-1	" 2 " 136	fine
02	3	3 15W	+59 39	2-1	9.45	F5	1-1-1	" 8 " 135	Shifted position
23	4	0 45W	-11 44	1-0-2	7.8-8.5	A2	4-4-4	" 5 Ecl. Bin.	good
							15/10	" 9	OK.
								3PH + 6 in fuig. H on M	
								PH # 2 - rivet on back loose. Please fix.	

Dome Temp. +6.6°

Transparency Conditions ... Few thin clouds...

12

Focus 15.779

Jun. 3 Changed to
25" camera

12 1/2" was

Tilt 20.35

25" is

Tilt 23.15

Dome Temp.

Focus 12.940

Focus 15.756

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
CHECK ✓							
2 08E	+00 45	0	6.3	G ₀	4-4-4	set 2 OLS Through thin cloud	fin
1 04W	+11 32	0-1	8.08	K ₂	4-4-4	" 2 Vis Bin. " " "	good
00 42E	-11 44	0	8.1	A ₂	4-4-4	" 2 Ecl. Bin. " " "	good
00 14E	54 39	0	9.3	A ₀	2-2-2	" 2 " " " " "	fin
					8/6	" 8 Not so "	OK

2 P.H. +4 in Aug
H.M.

Sat Jun. 4 250 visitors MR - M.
Cloudy - demonstrated "74" RASC showed moon etc.

	MC	SC	MTW	STW	S	SW	ME
June 6	+29.4 ^S	-33.5 ^S	-15.1 ^S	-4 ^m	+1.7 ^S	-27.4 ^S	-11.5 ^S
8	+26.1 ^S	-33.7 ^S	-9.1 ^S	-4 ^m	+3.2 ^S	-8.2 ^S	+5.9 ^S
10	+28.6 ^S	-33.6 ^S	-4.6 ^S	-3 ^m	+5.3 ^S	+13.6 ^S	+8.5 ^S

Date 1955 Jun 14-15 Tues Wed Observer S - Hr. Mo. Julian Day 2435273

Plate No.	Object	R.A. -1900- 1950	Declination -1900- 1950	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.
22336	NGC 5904	15 16.0	+02 16	Newt.	E103a-O			21 34 22	21 36 22	
22337	5634	14 27.0	-05 45	"	"			21 39 38	21 53 38	
22338	6229	16 45.6	+47 37	"	"			22 09 22	22 18 22	
22339	"	"	"					22 20 22	22 22 17	
22340	6205	16 39.9	+36 33					22 39 10	22 35 10	
22341	5634	14 27.0	-05 45					22 40 37	22 54 37	
22342	6229	16 45.6	+47 37					23 00 02	23 12 02	
22343	6402	17 35.0	-03 13					23 27 46	23 47 46	
22344	5634	14 27.0	-05 45					23 48 38	00 03 38	
22345	6356	17 20.7	-17 46					00 10 06	00 22 06	
22346	6093	16 14.1	-22 52					00 24 55	00 30 55	
22347	IC 1276	18 07.5	-07 15					00 38 51	01 04 51	
22348	NGC 6402	17 35.0	-03 13					01 08 03	01 22 03	
22349	6712	18 50.3	-08 47					01 25 25	01 43 25	
22350	6342	17 18.2	-19 32					01 38 06	02 02 06	
22351	6401	17 35.5	-23 53					02 06 04	02 30 04	

Dome Temp. 164°F

Transparency Conditions

Focus

Antares June 13-14 70% cloudy

Dome Temp.

Hour	Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0	27E			}			Focused on α Boo	Searchlight from city moving about.
0	39W						developed.		Focused on $\alpha$ Boo
0	15E							
0	107E							
00	52E							
1	40W						Green "LOBLAWS" gone.	
00	21E						Focused on δ Oph.	
5	39E						Lights from filling station out	
2	48W						Focused on δ Oph.	
0	14W						Sky getting dark at last!	
1	30W						Considerable haze	
0	10N							
1	00W						Moon risen.	
0	04E							
1	56W							
2	09W						Decl. Trail 20 sec beginning 22 30 44	

Home Temp.....

Focus.....

Home Temp.....

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality															
01 11 W						Focused on θ Aql. Mo guiding																
0 18 W																						
2 24 W																						
1 59 W																						
<p>A good night. Amazing how early darkness after 11 pm as lights set. Darkest part of night at 1.0 am just before sunrise</p>																						
<table border="0"> <tr> <td>Mc</td> <td>Sc</td> <td>MTW</td> <td>STW</td> <td>S</td> <td>SW</td> <td>ME</td> </tr> <tr> <td>June 15</td> <td>+27.1</td> <td>-17.1</td> <td>-2.9</td> <td>-2^m</td> <td>+0.3</td> <td>-5.0</td> <td>+2.3</td> </tr> </table>							Mc	Sc	MTW	STW	S	SW	ME	June 15	+27.1	-17.1	-2.9	-2 ^m	+0.3	-5.0	+2.3	
Mc	Sc	MTW	STW	S	SW	ME																
June 15	+27.1	-17.1	-2.9	-2 ^m	+0.3	-5.0	+2.3															

Date 1955 Jun. 15-16 Wed-Thu Observer ^{Mc} S-L-K Julian Day 2435.274

Plate No.	Object	R.A. 1900 55	Declination 4000 55	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.I.	Hour Exp.
22356	NGC 5904	15 16.2	+02 15	Newt	E103a-0			21 30 0	21 32 0	1	0.8E
22357	" 5634	14 27.3	-05 46					21 36 14	21 50 14	2	0.9W
22358	" 6229	16 45.8	+47 36					21 56 55	22 10 55	1	0.8E
22359	" "	" "	" "					22 12 58	22 16 58	2	0.8E
22360	" 6205	16 40.1	+36 32					22 21 13	22 22 13	1	0.8E
22361	" 5634	14 27.3	-05 46					22 29 49	22 43 49	2	0.9W
22362	" 6229	16 45.8	+47 36					22 58 51	23 12 51	1	0.8E
22363	" 6402	17 35.3	-03 13					23 21 03	23 35 03	2	0.8E
22364	" 5634	14 27.3	-05 46					23 46 06	0 0 06	1	0.8W
22365	" 6426	17 42.6	+03 12					0 05 48	0 19 48	2	0.8E
22366	" 6093	16 14.4	-22 53					0 25 45	0 31 45	1	0.9W
22367	" 6838	19 51.5	+18 39					0 40 17	0 44 17	2	0.8E
22368	" 6712	18 50.6	-08 47					0 53 19	1 01 19	1	0.8E
22369	IC 1276	18 08.0	-07 14					1 06 02	1 36 02	2	0.9W
22370	NGC 6838	19 51.5	+18 39					1 40 16	1 44 16	1	0.8E
22371	" 6402	17 35.3	-03 13					1 52 19	2 06 19	2	0.8W

Home Temp. +71°F

Transparency Conditions *Hazy*

20

Focus.....

Home Temp.....

seeing not as good as last night

Starting Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
22	0 28 E						Focus! on L. Pic.	
50 14	0 39 W						9.45 Shutter 5 3 Sizes Headlines	
10 55	1 18 E						Shutter NE 10.00 2 Sizes Headlines	
16 58	1 12 E						10.15 2 " "	
22 3	1 02 E							
28 49	1 33 W						→ No Guiding. 10.29 Strong SW breeze. shutter S. 3 Sizes Headlines	
12 51	0 16 E						Focus B. Pic. 11.12 shutter E 2 Sizes Headlines	
35 23	0 43 E						→ No Guide	
42 26	2 50 W						lots of fluffy clouds flying around ship	exposure delayed by clouds
47 45	0 06 E						→ No Guide	still reading 2 sizes of headlines
31 45	1 34 W							
44 17	1 51 E							
01 19	0 32 E						Focus B. oph. 1.00 2 sizes Headlines Shutter SE	
36 52	0 45 W						Light Obs - Same Haze	
44 16	0 50 E						Sky worse	Moon Rising.
2 36 19	1 48 W							

23

Date 1955 Jun 16-17 Thu Fri Observer S-Hr-Mc Julian Day 2435.275

Plate No.	Object	R.A. 1900 1955	Declination 1900 1955	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	F	How high Ex
22373	NGC 5904	15 16.2	+02 15	Newt	F103a-C			21 30 30 ³	21 33 30 ¹⁶		
22374	5634	14 27.3	-05 46	"	"			21 39 42 ¹²	21 55 42		
22375	6229	16 45.7	+47 36					22 01 25	22 13 25		
22376	6229	"	"					22 15 11 ²	22 17 11 ¹		
22377	6205	16 40.1	+36 32					22 21 14 ³	22 22 14		
22378	6254	16 54.8	-04 03					22 31 11 ²	22 34 11		
22379	6229	16 45.7	+47 36					22 39 42 ¹²	22 51 42 ³⁰		
22380	6402	17 35.3	-03 13					23 34 54 ⁴	23 49 54		
22381	5634	14 27.3	-05 46					23 58 55	00 12 55		
22382	6838	19 51.5	+18 39					00 57 02	01 01 02		
22383	IC 1276	18 08.0	-07 14					01 05 25	01 12 25		
22384	NGC 6342	17 18.5	-19 32					01 48 41 ²¹	02 12 41		
22385	6402	17 35.3	-03 13					02 11 32	02 32 32		
22386	6712	18 50.6	-05 47					02 35 55 ⁷	02 48 52		
22387	6838	19 51.5	+18 39					02 48 55 ²	02 52 55		
22388	6638	18 28.2	-25 32					02 57 51 ²	03 05 51		

Home Temp. +73°F

Transparency Conditions ... Scattered clouds at beginning

24

ocus

Home Temp.

Hour	Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
							Focussed on α Boo	
	0 22E						Searchlight on	
	0 49W						" " Bright cloud near field	
	1 12E						" "	
	1 08E						" "	
	0 57E						" " across field 6 times	
	0 59E						Focussed on δ Oph.	
	0 34E							
	0 25E						Downward motion of carriage failed to operate. Power off at end of exposure for 3 min.	
	3 07W						Carriage down to fix carriage. Power off again! 12:42 1/2 min.	
	1 30E						Focussed on θ Oph	
	0 57W							
	2 15W							
	2 19W						Moon risen	
	1 15W							
	0 23W							
	1 59W							

Transparency Conditions

Home Temp.....

Focus.....

Home Temp... +68°F

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
2 13W						Alt. large plates now used.	
						MC SC MW STW S SW NE	
						June 17 +28. ^s 3 -14. ^s 9 -4. ^s 9 -3 ^m +3. ^s 2 +16. ^s 9 -21. ^s 5	

Dome Temp. +78°F

Focus 12.940

Dome Temp.

Transparency Conditions Hazy + Light Cloud to Start 28

Cleared about 22:00

June 17 changed to
12.2" camera

Focus 15.782

Gill 23.15

12.5" 18.440

12.5" 23.35

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0 48	+60 13	0	9.08	K3	1-1-1	Set 2 HINS 138 KAFS	
03 13 W	+59 38	1-2-1	9.75	Ksp	1-1-1	" 8 HINS 140 KAFS	
00 15 W	38 21	1	9.9	Bo: I: pc	1-1-1	" 2	
					4/3	" 8	
3 P.H. loaded							
No A.M.T.							
						MC SC MTW STW S SW ME	
						June 20 +28.6 ^s -15.7 ^s -5.9 ^s -3.1 ^m +3.2 ^s -18.9 ^s -16.3 ^s	



Had to take cable
apart to fit cable
where I could start

22:00 Having trouble with dec
22:40 Wait work at all.

Called Jerry - voltage low
(900) - he sped raise to 115
↓ it worked.

29

Date Mon. Ev. June 21-21 1955 Observer MR-K Julian Day 2435279

088 47 22.9 3436.2

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 Est.
22393	V 4510 Ph	18 ^h 24.5 ^m	+10 ^o 49 [']	I-25	103a-0	set 008	+23.7	23 50	0 40	2	0 50
22394	V 805 AGL	19 00.7	-11 48 (1955)	"	"	"	+23.7	0 46	1 56	2	0 50
22395	Comet Mikas	55 55.9	+54 47	"	"	"		3 04 50	3 16	3	3 50
	House Test	CTB.					+23.7				

ome Temp. 76 °F
 ocus 15.767
 ome Temp.

Sat Jun. 18 150 Visitors
 Showed Saturn with 74" O-Mo
 Sky still overcast at 2:15.

Transparency Conditions clearing about 11 PM.

30

June 18 Changed to 25" Camera
 12 1/2" was Focus 12.940
 25" is Focus 15.780
 Silt 20.35 Silt 23.15

ng Time L.S.T.	our Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
40	0 10E	+10° 55'	2.1	8.1	A0	4-4-4	set 2 Ecl. Bin	
56	0 30W	-11 41	1	8.1	A2	4-4-4	" 8 " "	
16	8 58E					12 15/10	Set 2 " 8	Filed in main file just before on
							1 PH loaded No Heat	

31

Date Jan 21 1952 Observer W. S. K. Julian Day 2435280

089 49 391 34357

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.	Hour Exp.
22396	HD 136617	15 16.6	+59 53	I-25	E103a0	.016	+25.5	21 31	22 25	4	0 50
22397	HD 151528	17 00.9	+77 42	"	"	.008	+25.6	22 45	23 04	2	0 30
22398	V451 Oph.	17 21.5	+10 44	"	"	"	+35.4	23 23	0 38	2	0 30
22399	V905 ARL	19 00.7	-11 48	"	"	"	+25.5	0 44	2 14	2	0 30
22400	V548 Cyg	19 54.6	+51 32	"	"	.016	+25.2	2 26	3 26	1	1 10
	Focus Test	CTB.				"				1	

ome Temp. 72°

ocus 15.799

ome Temp. 61°

Transparency Conditions

Some cloud.
(clear at 23.40)

32

ing Time
E.S.T.

our Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0 57W + 59 40		0	9.75	Ksp	2-2-2	Set 2 KAFS. (cut the approx. - too faint)	excellent
0 13W + 77 43		0	6.7	A0	4-4-4	Set 2. spec. bin.	fair
0 09E + 10 51		0	8.1	A0	4-4-4	Set 2 ecl. bin.	fair
0 51W - 11 43		0	8.1	A2	4-4-4	" 8 Ecl. Bin.	fair
1 11W + 54 41		0	9.3	A0	2-2-2	Set 2 Ecl. Bin.	fair
					8/6	" 8	

* Note: Caden in which plate-holders were used

1 FH Loaded

No Heat

	MC	SC	MTW	STW	S	SW	ME
June 22	70.5	-14.5	-11.9	-4.4	+3.3	+3.7	-0.5

Home Temp. +65.0
 Focus 15.752
 Home Temp.

Transparency Conditions... Scattered Clouds

34

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
2 W	+26 05	1/2	5.20	F5	-	Set 1 Vis. Bin.	<i>fin</i>
"	"	"	"	"	12	5	
3 02 W	"	"	"	"	-	9	
"	+19 15	2	4.01	F0	-	1 Vis Bin Through clouds	<i>fin</i>
0 40 E	"	"	"	"	-	5 " "	
"	"	"	"	"	12	9 " "	
						clouded out.	
						3 ph loader	
						MC SC MTW STW S SW ME	
						June 24 -0.8 -13.9 -18.9 -.6 ^m +3.3 ^s -38.4 ^s +3.0 ^s	

Home Temp. +6.3°
 Focus 12.940
 Home Temp.

Transparency Conditions Much haze

June 25 Changed to 12 1/2" camera 25" was Jilt 23.15
 Focus 15.752, Focus 12.940
 12 1/2" Jilt 20.35

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0 43 W	+ 45 30	1	7.64	F ₃	2-2-2	set 2. KAFS Much haze	fair
		1	9.08	K ₃	1-3	" 8 " I cut exposure because I found the clock lights were reflected directly on to the slit.	
1 36 W	+ 60 15	1-2	"	"	1-1-1	" 5 " Clock lights out! Much haze	good
1 59 W	+ 45 05	2 1/2	9.25	A ₂	1-1-1	" 2 " " "	fair
1 18 W	+ 77 44		6.7	A ₀	2-2-2 15/10	" 5 Sp-Bin " 10 haze too thick to continue.	OK

4 PH loaded.
 No heat.

5 plates rejected
 22, 23
 No had book turned back to Jun 2-3 when W5 numbered this plate.

ome Temp. $+59^{\circ}F$ } at c.c. hrs.
 ocus..... $12.94C$
 ome Temp. $+54$

Transparency Conditions

Clear
 0 00 Sky very hazy
 Very poor night

38

ing Time
E.S.T.

our Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
24 0 44E	+45 40.	0	10.11	25 Ia	1-1-1	at 2 OB prog. page 12	+
24 1 54E	+63 33	0	8.7	B. III	1-1-1	" 5 1/2 " " " 22	+
					4/3	" 9 1/2	OK
						3 PH. Loaded	
						No Heat.	

39

Date 1955 Jun 26-27 Sun Mon Observer (Wg) Mo - H V Julian Day 2435285
094 30 51.6 3432.7

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.
22409	BD +45° 2137	13 50.1	+45 13	I-12 $\frac{1}{2}$	E1030-C	0.016	+21.0	21 10	22 10	
22410	BD +60° 1611	15 21.9	+60 16	"	"	"	+20.9	22 21	00 31	
22411	H.D.E. 227057	20 17.5	37 05	"	"	"	20.8	01 13	03 23	L
	<i>Focus Test. O.P.B.</i>									

ome Temp.....+63°

Transparency Conditions Good.....

40

ocus.....12.9.40.....

(some cloud at 22.00)

ome Temp.....

ing Time E.S.T.	our Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
16	2 17W	+ 44 59½	1½	9.57	F6	1-1-1	Set 2 KAFS	fin
31	0308W	+ 60 05	1½	9.98	F8	1-1-1	Set 8 " <u>0035 cloud</u> gonding	fin
33	0109W	37 17	0	10.2	Brs ^F	1-1-1	" 2 OB	fin
						4/3	" 8	OK
							4 P.H. +2	
							MC SC MTW STW S SW ME	
							June 27 0 -12.3 ^S -28.1 ^S -7m ^S +29 ^S -7.4 ^S +6.8 ^S	

Date May-June 1952 June 27-28 Observer MR-K Julian Day 2435286
09528 04.3 3432.3

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	I	Hour Angle End
224127	HD 170177	15 ^h 23 ^m 0	-13 ^d 34'	T.10%	D36-0	316	+24.7	21 16	0 22	1	
22413	EC +63° 2790	22 04.5	+54 03	"	"	"	+24.7	0 49	3 05	1	
22414	HD 212883	22 22.4	+36 57	"	"	"	-	3 16	3 17	2	
	3 18							3 20	2		
	3 21							3 25	2		
	Focus Test	O.T.B.					-			2	

Home Temp.....

Transparency Conditions

Good - some haze.

42

Focus 12.940

Home Temp. +62°F

2-3

Starting Time E.S.T.	Bour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
	CO	-13° 31'	0	10.24	B ₁ I ₂	1-1-1	SB p. 3 S 2	Fin
05	56E	+54 17	0-1-0	10-11	O ₉ S ₁ II	1-1-1	" p12 " 8 FLEUREL	Strong
17	—	+37 14	0	6.2	B ₂ M ₅	—	Set 1 B Type Stand. Vel	
	—	—	0	"	"	3	" 4 " " "	Fin
	55E	—	0	"	"	—	" 7 " " "	
						4/3	" 10	OK
							2 PH Loaded	
							No Heat	

43

Date Tues Wed June 28, 29, 1955 Observer O-K Julian Day 2435287

① 96 25 16.6 3431.9

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.
22415	HD 131381	14 48.2	+45 35	I-12	E103a 0	016	+27.1	21 03	22 23
22416	HD 143585	15 56.2	+30 23	"	"	"	+27.0	22 31	23 11
22417	HDE 235618	21 43.5	+54 53	"	"	"	+27.0	0 39	2 39
22418	HDE 235783	22 13.4	+54 00	"	"	"	+27.0	2 45	3 09
22419	HD 217811 +43° 4378	22 58.2	+43 31	"	"	"	—	3 18	3 19
	"	"	"	"	"	"	+26.9	3 20	3 22
	"	"	"	"	"	"	—	3 23	3 27
	Focus Test	O.T.B.							
Wed - Thu June 29 - 30 Thick Haze + Thin Cloud - K									
Thu - Fri June 30 - July 1 Completely Hazy + Clouds - K									

Home Temp. +74°F

Humidity 12.740

Home Temp. +69°F

Transparency Conditions

Clear, some haze near horizon 44
Very hazy to about 2:00 hrs

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
2 23	40 W	+45 22	1	9.68	F8	1-1-1	Set 2 KAFS 352	fine
2	21 W	+30 15	2	10.08	68	1-1-1	" 8 " 634	fine
2 39	58 E	+55 10	2	10.34	B. IV	1-1-1	Set 2 UB page 12 BD +54° 2623	fine
3 09	58 E	+54 17	2	8.8	B. Ib	1-1-1	" 5 " " 20 BD +53° 2838	1 star
	—	—	1	6.1	B ₃ MS	—	Set 1 B. Type. Stand. Vel.	
2 22	—	+43 48	1	"	"	3	" 4 " " " "	fine
3 27	25 E	—	1	"	"	—	" 7 " " " "	
						4/3	" 10	OK

IPH loaded
No Heat

	MC	SC	MTW	STW	S	SW	ME
June 29	-0.5	-11.6	+12.5	-4m	+3.6	+10.6	+7.0

45

Date Fri-Sat July 1-2 / 05 Observer Hr Julian Day 2435290
0 99 16 51.1 3431.0

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp. 27.2	Starting Time E.S.T.	Ending Time E.S.T.	Exposure hr
22H20	AD 10127 Faint Star	16 32.6	34 01	I-25	Em330	008	27.2	21 42	23 14	1.72
				O.S.B.						
	Sky still cloudy 2:15 EDT - Mo.									

Home Temp. +76°F

Focus 15.822

Home Temp.

Transparency Conditions

Start delayed by Clouds 4/6

Jun. 30 changed to
25" camera

12 1/2" was Focus 12.940
Tilt 20.35

25" is Focus 15.770
Tilt 23.15

Starting Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
	129N	33 56	0	7.89	Ko	4-4-4 15/10	Set. 2. Vis. Bin. Who turned Mirror Heat on???, FLEXURE 2320 Cloud turn N.	good o.k.
							2 P.H. +10 No Heat	

47

Date Sat July 23 / 55 Observer Mo Mo Julian Day 2435291
 ☉ 100 14 02.1 3430.7

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.
22421	HD 154528	17 00.9	+77 48	I-25	E103aC	008	+28.1	22 47	23 21
22422	V445 Aql.	19 00.7	-11 48	I-25	"	"	+28.0	23 30	01 10
22423	V548 Cygni	19 54.6	+54 32	"	"	0.016	+28.0	01 25	02 23
22424	ADS 1499E	21 24.6	+59 19	"	"	0.008	+28.0	02 29	03 13
22425	ADS 1576A	22 11.1	+72 49	"	"	"	+28.0	03 21	03 45
	Focus Test	C.T.B.				"	+28.0		

Dome Temp. 72 F

Focus 15.836

Dome Temp.

Transparency Conditions *poor* Good at end of night. 48

About 200 visitors showed by 8 with 74" and 5". RASC members with 3 telescopes and the Cooke 4"

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
3:21	10 46	77 43	0	6.7	A ₀	4-4-4	Set 2 Check if this is right star, Sp. Bin	fine
1:10	0 31W	- 11 43	0	8.1	A ₂	4-4-4	Set 2 Ecl. Bin.	weak
2:30	0 51W	+ 59 41	1	9.3	A ₀	2-2-2	" 7 " "	fine
2:50	0 11W	+ 59 35	1 1/2	7.42	Ma	4-4-4	" 2 Vis Bin	good
2:50	0 03E	+ 73 05	1-2	6.72	G ₅	4-4-4	" 7 " "	fine
						15-10	" 10 1/2	centre slightly to red
1 p.h. loaded.								
1 rubber loop on secondary cover is broken								

49

Date Sun-Mon July 3-4/55 Observer K-Hr Julian Day 2435.292

① 101 11 12.8 34307

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	E	Exposure hr
22426	HD 154528	17 00.9	+77 48	I-25	F1030-C	.008	+31.6 +31.9	21 09	21 29		
22427	V451 Oph	18 24.5	+10 49	"	"	"	+31.9 +32.3	21 40	22 40		
22428	V805 AQL	19 00.7	-11 48	"	"	"	+32.3	22 46	0 26		
22429	V548 Cyg	19 54.6	54 32	"	"	.016	32.3	00 34	01 45		
22430	V1051 IASIF	20 02.8	22 09	"	"	.008	32.3	01 34	02 04		
	<i>Transit</i>	<i>-7.1</i>	<i>02 10</i>	<i>I-25</i>	<i>F1030-C</i>	<i>.008</i>					

Home Temp. 82° F - HOT

Focus 15.882

Home Temp.

Transparency Conditions

Thin hazy cloud over most of sky
cloud in West.
22:00 clear but hazy. - Full moon 50

30.7

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
22	02 E	+77 41	0-1	6.7	A0	4-4-4	Set 2 Spec. Bin	fine
22	20 E	+10 54	0-1-0	8.1	A0	4-4-4	Set 2 Ech. Bin	good
22	10 E	-11 43	0-1-0	8.1	A2	4-4-4	" 8 " "	fine
22	13 W	54 40	0-1	9.3	A0	2-2-2	" 2 " "	l. strong
22	38	19	0	7.74	G5	4-4-4	" 2 Vis Bin.	fine
						16/10	" 2	O.K.
							IP.H.	
							No Heat	
							MC SC M ₁ W STW S SW NE	
							July + -1.5 -8.5 -34.1 -7m +1.7 -2.6 +9.3	

Home Temp. + 97°

Focus 15.932

Home Temp. 90.7

The spectrograph was so hot that I had to extrapolate the curve to get this reading.

Transparency Conditions Good -

52

Start delayed because chain had jumped sprocket of focussing mechanism.

Starting Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
01	09W	+02 13	1/2	8.90	K7V	4-4-4	(Nice Fit Don) Set 2 OLS	1. weak
48	53W	+10 54	1/2	8.1	A0	4-8	Set 2 Ecl. Bin	weak
						16/10	" 8	OK.
							3PH No Heat	
360						15-20	Set 1	OK
920						15 20	5	Center tel.
940						15 20	9	OK

Home Temp. +80 F

Transparency Conditions

poor

54

Focus 12.940

Changed to

Focus 15.932

12 1/2 15

Focus 12.940

Home Temp. +70 F

12" camera 25" was

Tilt 23.15

Tilt 20.35

ending Time
E.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
1 29	45 27	0	7.3	B ₃	1-1-1	Set 2 B-type 8th Val. [drawn aside] maybe didn't	fine
1 18	5				1-1-1	" 5 " " " "	fine
2 18	59 42	0	9.45	F ₅	1-1-1	" 9 KAFS light clouds.	fine
2 24 W	-6 31	0-1	9.28	B ₅ I ₂	1-1-1	" 2 OB p5 runs dec 10° N of pos'n.	fine
3 52 E	+54 18	1-2-3	10.11	O ₉ sp III	1-1-1	" 8 OB p12 ← light clouds telescope shifted in dec - 2.00 hrs	bad flexure
3 02 E	+53 16	2-1	9.0	A _{0.76} I	1-1-1	" 2 OB p20 50 +52° 30 95	strong
					4/3	" 8	centre to violet.

1PH Loaded

No Heat

	MC	SC	MTW	STW	S	SW	ME
Jun 6	-1.7	-6.3	-47.8		+0.2	+16.8	+0.4

ome Temp. 76 F

ocus 12.960

ome Temp.

Try 12.960

Transparency Conditions *very poor*

56

*L installed new mirror for visitors
eyepiece.*

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
	75 20	0	7.2	B3	1-1-1	B Std Vel. } Parney clouds	fine
W 30 ^m					1-2	8	1 strong
W 17	77 43	0	6.7	A0	2-2-2	" 2 Sp. Bin.	1 strong
					10/7	" 8.	OK
						2.7H. No Heat	
						clear sky	
						MC SC MTW STW S SW NE	
						July 8 -3.1 ^s -9.1 ^s -37.9 ^s -0.01 ^m -5.9 ^s +29.8 ^s +1.5 ^s	

57

Date Sat Sun July 9-10, 1955 Observer O - PK Julian Day 2435.2980106 54 18.3 3431.8

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.
22440	HD 154528	17 009	+77 48	L 112	E103a-O	.008		22 59	23 09
22441	HD 173783	18 42.0	-09 25	"	"	.016	+30.1	23 17	20 47
22442	HD 229234	20 203	+28 12				+29.8	01 05	02 15
22443	HD 229238	20 204	+28 13				"	02 17	03 21
	Focus to A	0.52							

59

Date *Sun-Mon July 10-11/55* Observer *Hg - Hr* Julian Day *2435299*
0 107 51 30.1 3432.3

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.
22444	HD 173637	18 41.2	-08 02	I-12½	E103a-0	.016	26.8°	21.30	0
22445	BD+60° 2330	22 15.6	60 16	"	"	"	26.6	00 28	01 42
22446	BD+44° 3731	21 07.8	45 05	"	"	"	26.3	02 13	03 39
	<i>Focus Test</i>		<i>37.8</i>						

Time Temp. 75°

Focus 12960

Time Temp.

Transparency Conditions Good - Some cloud in N + W/60 to start

Thin cloud

32.3

Ending Time E.S.T.	Star Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
	12W	-07 58	0	9.63	B ₁ V	1-1-1	Set 2 OB page 5	fine
	14DE	60 32	0	9.43	B ₂ III	1-1-1	" 8 " " 14	Extremely bad flexure fine
	13E N	45 19	0	9.57	B ₅ III	1-1-1	" 2 " " 12	flexure fine
						1/3	" 3	OK
							2 P.H.	
							W. Point	
							MC SC MTW STW S SW ME	
							July 11 -3.5 -0.4 -50.0 -2 ^m -2.2 -0.4 +53	

61

Date *Mon Tues July 11-12 1955* Observer *Hg MR - H* Julian Day *2435.300*
0108 48 42.4 3432.8

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.
22447	BD-13°4930	18 ^h 13.3 ^m	-13°52'	I-12 ^{1/2}	103a-0	^{Set} 016	25.6	21:12	23:49
22448	HDE 229239	20 20.4	+38 11	"	"	"	25.4	00:02	01 56
22449	BD+44°3731	21 07.8	45 05	"	"	"	25.2	02 05	03 45
	<i>From Test</i>				<i>O 913</i>				

Time Temp. 70° F

Focus 12.62

Time Temp.

Transparency Conditions very good.

62

Mr Hollin Georgia Inst.
visiting

Ending Time E.S.T.	Sur Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
23:49	31 W	-13° 50'	0	9.74	09.5 I	1-1-1	OB P3 set 2	fine
01:05	33 W	38 21	0	9.6	B1 Id	1-1-1	OB p. 9 set F Flexure	good
03:45	36 W	45 19	0	9.57	B5 III	1-1-1	" " 2 " 2	1 strong
						4/3	" " 8	O.K.
							2 PH +2	
							No Heat.	

Date 1955 Jul. 12-13 Tues Wed Observer Mo - K Julian Day 2435301
 @109 45 55.2 3433.4

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp. +25.7	Starting Time E.S.T.	Ending Time E.S.T.
22450	HD 154528	17 00.9	+77 48	I-25	E103a-C	set 0.008	+25.8	21 01	21 27
22451	V805 Aquilae	19 00.7	-11 48	"	"	"	+25.6	21 57	23 15
22452	HD 154528	17 00.9	+77 48	"	"	"	+25.6	23 23	23 35
22453	V548 Cyg	19 54.6	+54 32	"	"	0.016	+25.6	23 45	0 25
22454	V451 OPH	18 24.5	+10 49	"	"	.008	+25.5	0 34	1 20
22455	ADS 15798	22 11.8	+33 14	"	"	"	+25.5	1 28	2 38
22456	ADS 15874	22 17.8 ⁵	+40 10	"	"	"	+25.5	2 45	3 41
	Focus Test	O.T.B.				"	+25.5		

ome Temp. +71°

ocus 15.798

ome Temp.

Transparency Conditions Good

July 12/55 Changed to

12" was { Focus 12.960
Tilt 20.35

25" was { Focus 15.762
Tilt 23.15

Astronomy 16 class visited Ole Shuman 113.0

64

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality														
21:57	0 28E	+ 77 42	00	6.7	A ₀	4-4-4	Set 2. Sp. Bin	fine														
22:50	0 45E	- 11 40½	0→1	7.8	A ₂	4-4-4	Set 2 Ecl. Bin	fine														
23:21	1 40W	+ 77 43	2	6.7	A ₀	4-4-4	" 8 Sp. Bin.	fine														
0:05	0 27E	+ 54 40	2	7.0	A ₀	2-2-2	" 2 Ecl. Bin	fine														
1:20	1 57W	+ 10 54	2	7.9	A ₀	4-4-4	" 8 Ecl. Bin	fine														
2:38	0 32E	+ 33 33	2-1	7.91	F8	4-4-4	" 2 Vis. Bin	good														
3:41	0 26W	+ 40 28	2	7.60	K2	4-4-4	" 7 Vis. Bin. clouds in N + W 300 Exposing thru thin cloud 3:15	fine														
						16/10	" 10½	O.K.														
4 PH Loaded																						
No Heat																						
<table style="width: 100%; border: none;"> <tr> <td>ME</td> <td>SC</td> <td>MTW</td> <td>STW</td> <td>S</td> <td>SW</td> <td>ME</td> </tr> <tr> <td>Jul 13 -4.9</td> <td>+0.9</td> <td>+5.2</td> <td>-0.9</td> <td>-4.0</td> <td>+16.2</td> <td>-2.7</td> </tr> </table>									ME	SC	MTW	STW	S	SW	ME	Jul 13 -4.9	+0.9	+5.2	-0.9	-4.0	+16.2	-2.7
ME	SC	MTW	STW	S	SW	ME																
Jul 13 -4.9	+0.9	+5.2	-0.9	-4.0	+16.2	-2.7																

Date *Wed. Thurs July 13-14 1955* Observer *MR - K* Julian Day *2435.302*
 0 110 43 08.6 3433.9

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.
22457	ADS 10022	16 17.5	+19 23	I-25	103a-0	.008	+27.4	20 56 45	20 57 15
	"	"	"	"	"	"	"	20 58 45	20 59 15
	"	"	"	"	"	"	"	21 01 00	21 03 00
22458	ADS 10144	16 36.0	+49 07	"	"	"	+27.4	21 22	21 46
22459	HD 104528	17 00.9	+77 48	"	"	"	-	21 55	22 15
22460	V805 AGL	19 00.7	-11 48	"	"	"	+27.4	22 27	23 57
22461	V548 Cyg.	19 54.6	+54 32	"	"	.016	+27.3	0 13	1 03
22462	V451 Oph	18 24.5	+10 49	"	"	.008	+27.3	1 12	2 02
22463	ADS 10520	23 02.5	+20 03	"	"	"	+27.1	2 12	3 02
22464	ADS 10613	23 08.5	+10 31	"	"	"	+27.2	3 08	3 34
	Focus Test	O.T.B.		"	"	"			

Home Temp. 70°

Humidity 15.827

Home Temp. 68° F

Transparency Conditions Good - Slight Haze

66

Ending Time EST.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
5:16	-	-	2	4.01	FO	-	Vis Bin set 1 Exp 1/2"	
5:45	-	-	1	"	"	12 ^s	set 5 1"	fine
6:00	10 E	-	2	"	"	-	set 9 2"	
6:14	15 W	+49° 00'	0	6.31	Ma	4-4-4	Vis Bin set 2	good
6:25	24 W	+77 43	1	6.7	AO	4-8	Spec Bin set 2	fine
6:37	0 00	- 11 43	0	7.8	A2	4-4-4	Ecl Bin set 8	1. weak
6:53	15 W	+ 54 40	2	9.0	AO	2-2-2	Set 2 at first; Set 8 Ecl. Bin. (false start slit obs)	fine
7:02	2 43 W	+ 10 53	2	7.9	AO	4-4-4	" 2 Ecl. Bin.	good
7:02	55 E	+ 20 20	2	7.67	Ko	4-4-4	" 8 Vis. Bin. Numbered 22458-64	fine
7:03	29 E	+ 10 52	1-0	6.80	Ko	4-4-4	" 2 Vis Bin.	fine
						16/10	" 8	altered

2 PH Loaded

No Heat

	ME	SC	MTW	STW	S	SW	ME
JULY 15	-5.6	+3.8	-7.5	-0.5	-5.7	+31.6	-6.6

Time Temp. +71°F

Focus 12.960

Time Temp.

Transparency Conditions Good.

68

July 15 Changed to 12 1/2" Camera

25" was { Focus 15.900 Tilt 23.15 } 12 1/2" is { Focus 12.960 Tilt 20.35 }

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Fig. Mag.	Sp.	Comp.	REMARKS	Quality
		3 21	0-1	9.9	Bo: I : pe	1-1-1 4/3	Set. 2. O.B. pp 9. I.P.H.	fine OK

Eme Temp. 74°
 Focus 12.960
 Eme Temp. 70

Transparency Conditions *Very poor - cloud + haze*
 70

Ending Time E.M.T.	Star Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
	02W	+45 46	1-2	9.34	B.V. n	1-1-1 4/3	2.1 2 CB Cloud from SW. Too poor to continue	FLEXURE fine OK
							4 PH	
							HC _s -2.9 SC _s +9.9 MTW _s -47.8 STW _s -1.2 July 20 S _s 165.8 SW _s -1.7 ME _s -5.6	

Eme Temp... 74°

Focus... 12:960

Eme Temp... 70°

Transparency Conditions... much haze + cloud

72

Hour Angle L.L.T.	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
7:15	+38° 24'	2	9.6	B0.5 I6	1 ^s -1 ^s -1 ^s	set 2 OB p. 9	good
		2	4.3	B5 m.s.	3	net 2 Ad vel	
					3	5	fine
11 W					3	8	
11:10	+46° 0'	2	10.15	Bolt	1 ^s -1 ^s -1	5 170 p. 12	fine
					4/3	9	OK
						2.34	
						Mc SC MTW STW S SW ME	
						JULY 18 -6.5 ^s +7.8 ^s -30.0 ^s -1.0 ^m -5.3 ^s +52.3 ^s 11.7 ^s	

73

Date 1955 Jul. 18-19 Mon-Tue. Observer S. H. M. Julian Day 2435307

Plate No.	Object	R.A. 1900 1955	Declination 1900 1955	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P
22470	NGC 5904	15 16.2	+02 15	Newt.	E103a-C			21 19 02	21 22 02	1
22471	5634	14 27.3	-05 46					21 26 43	21 46 43	
	5877	15 14.9	-20 50							
22472	6171	16 30.6	-12 56					21 58 06	22 16 06	
22473	6093	16 14.4	-22 53					22 20 24	22 28 24	
22474	6356	17 21.0	-17 46					22 31 53	22 48 53	
22475	6171	16 30.6	-12 56				18	22 54 20	23 12 20	
22476	6712	18 50.6	-08 47					23 16 43	23 24 43	
22477	IC 1776	18 08.0	-07 14					23 29 00	00 14 00	
22478	NGC 6626	18 21.8	-24 54					00 18 05	00 26 05	
22479	6656	18 33.6	-23 58					00 30 20	00 34 20	
22480	6678	18 28.2	-25 32					00 38 08	00 42 08	
22481	6544	18 04.1	-25 01					00 51 36	01 03 36	
22482	6717	18 52.9	+22 47					01 11 00	01 31 00	
22483	6712	18 50.6	-08 47					01 41 15	01 47 15	
22484	688E	19 51.5	+15 39					01 54 20	01 58 20	

Time Temp. +77°

Focus.....

Time Temp.....

Transparency Conditions Poor - much haze

74

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
2:57	33W						Focussed on α Serpens	} These two plates were developed during the night
4:00	46W						Object invisible in haze and light	
2:46	13W	calculated						
2:51	41W							
3:00	50W							
3:05	59W						Focussed on β Caphielii. No guiding	
3:10	51W							
3:15	53W							
3:20	51W							
3:25	67W							
3:30	47W							
3:35	25W							
3:40	56W							
3:45	26W						No guiding Focussed on δ Anulae	
3:50	35W							

75

continued.

Date 1955 Jul. 18-19 Mon. Tue. Observer S-H-Mo. Julian Day 2435.307

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P
22485	NGC 6779	19 14.8	+30 06	Newt	E103a-0			02 02 58	02 09 58	5
22486	6864	20 03.5	-22 03					02 14 20	02 20 20	6
22487	6981	20 51.0	-12 43					02 33 41	02 47 41	7
22488	7089	21 31.2	-01 02					02 48 59	02 49 24	8
22489	6878	19 51.5	+15 39					02 59 41	03 03 41	9
22490	7097	21 37.8	-23 24					03 08 57	03 18 52	10

77

Date July 19-20 Tue-Wed 1955 Observer S-Hu-K Julian Day 2435308

Plate No.	Object	R.A. 1900 ⁵⁵	Declination 1900 ⁵⁵	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.
22491	NGC 5904	15 16.2	+02 15	Newt	E1039-D			21 18 42	21 20 42
22492	" 5634	14 27.3	-05 46	"	"			21 26 47	21 42 47
22493	" 5897	15 14.9	-20 50	"	"			21 46 16	21 56 16
22494	IC 1376	18 09.0	-07 14	"	"			22 03 42	22 48 42
22495	NGC 6712	18 50.6	-08 47	"	"			22 51 58	22 59 58
22496	" 6838	19 51.5	+18 39	"	"			23 06 06	23 10 06
22497	" 6342	17 18.5	-19 32	"	"			23 16 23	23 36 23
22498	{ " 6712	18 50.6	-08 47	"	"			23 39 48	23 45 48
	KA 110	18 39.7	+00 03	"	"			23 48 10	23 54 10
22499	IC 1276	18 09.0	-07 14	"	"			00 02 48	00 47 48
22500	NGC 6838	19 51.5	+18 39	"	"			00 51 38	00 54 38
22501	" 6717	18 52.4	-22 47	"	"			00 59 33	01 15 33
22502	" 6656	18 33.6	-23 58	"	"			01 18 53	01 22 53
22503	" 6426	17 42.6	+03 12	"	"			01 28 05	01 44 05
22504	" 6712	18 50.6	-08 47	"	"			01 51 56	01 59 56
22505	{ " 6838	19 51.5	+18 39	"	"			02 04 43	02 08 43

Dme Temp. +74^oFTransparency Conditions *Good*

78

Fus.....

Dme Temp.....

Ending Time E.S.T.	Hr End	Angle	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
	0	35 W						Focus K oph.	
1 20 42	2	46 W	→					← Plate loaded Backwards - Thrown Away.	
1 28	2	12 W						Focus 13 oph.	
2 51	0	12 W							
2 57	0	20 E							
3 1	0	46 E							
3 30	1	49 W							
3 45	0	27 W	} Sequence					} Focus & Aquilae	
	0	46 W							
3 50	2	11 W							
3 54	0	34 W							
4 16	1	55 W							
4 22	2	20 W							
4 44	3	33 W						Focus & Aquilae	
4 57	2	41 W							
5 09	1	49 W	} Sequence					}	

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continued

Date July 19-20/55 Tue-Wed Observer S-Hu-K Julian Day 2435308

Plate No.	Object	R.A. 1900 55	Declination 1900 55	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.
-	KA 89	21 10.6	+15 22	Newt	E1039-O			02 14 05	02 18 05
22506	UNKNOWN	23 04.4	+12 29	"	"			02 24 50	02 39 50
22507	NGC 6838	19 51.5	+18 39	"	"			02 44 50	02 47 50
22508	" 7089	21 31.2	-01 02	"	"			02 52 36	02 53 06
22509	" 7099	21 27.8	-23 24	"	"			02 58 18	03 04 18
22510	" 6838	19 51.5	+18 39	"	"			03 09 56	03 12 56
22511	" 7078	21 27.8	+11 58	"	"			03 16 57	03 19 57
22512	" "	" "	" "	"	"			03 21 43	03 22 13
22513	" 6838	19 51.5	+18 39	"	"			03 27 48	03 29 48

Dne Temp.....

Transparency Conditions.....

Fous.....

Dne Temp. +66° F

Ending Time E.S.T.	Hour End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
18 50	39 W	} Sequence (+12 ^{set} 28 1/2)					} Sequence UNKNOWN OBJECT. (with stars)	
18 50	53 E							
18 49	52	28 W						
18 53	50	54 W						
18 54	50	58 W						
18 52	53	53 W						
18 50	51	24 W						
18 52	51	26 W						
18 53	53	10 W					Must be last night I have had this year	

Date Wed Thurs July 20-21/55 Observer S. Ma-Hg (K) Julian Day 2435309

Plate No.	Object	R.A. 1900 1955	Declination 1900 1955	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.
22514	NGC 5904	15 16.2	+02 15	Neot	E 103a-0		T ₂	21:19:36	21:21:36
22515	5639	14 27.3	-05 46	"	"		18	21:27:10	21:45:10
22516	6402	17 35.3	-03 13	"	"		14	21:56:20	22:10:20
22517	6838	19 51.5	+18 39	"	"		3	22:16:40	22:19:40
22518	6093	16 14.4	-22 53	"	"		6	22:25:9	22:31:9
22519	6356	17 21.0	-17 46	"	"		8	22:36:3	22:44:3
22520	6712	18 50.6	-08 47	"	"		8	22:51:10	22:59:10
22521	6402	17 35.3	-03 13	"	"		14	23:3:40	23:17:40
22522	IC 1276	18 08.0	-07 14	"	"		45	23:21:56	0:06:56
22523	6838	19 51.5	+18 39	"	"		3	0:14:42	0:17:42
22524	6656	18 33.6	-23 58	"	"		4	0:21:52	0:25:52
22525	6626	18 21.8	-24 54	"	"		6	0:32:24	0:38:24
22526	6638	18 28.2	-25 32	"	"		10	0:44:4	0:54:4
22527	6717	18 52.4	-22 47	"	"		16	0:59:57	1:15:57
22528	6712	18 50.6	-08 47	"	"		8	1:19:9	1:27:9
22529	6760	19 08.8	+00 58	"	"		30	1:38:35	2:08:35

Dne Temp. 75°

Transparency Conditions

Hum.

Dne Temp.

Ending Time EST.	Hour End	Angle	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
		40 W						Focused on α Serp. Focus not considerably Transparency not so good as last night.	
		53 W						Focused on α Serp	
		10 W							
		57 E							
		72 W							
		58 W						Focused on η Serp	
		7 E						Seeing better, transparency worse than last night	
		16 E						(focused on η Serp)	
		4 W						↓	
		31 W							
		17 W						Mo guiding	
		2 W						Mo guiding	
		1 W							
		8 W							
		W						Mo guiding	
		5 W						focussed on η Serp. Mo guiding	

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cont.

Date Wed-Thurs July 20-21/55 Observer S-Mo-Hg-K Julian Day 2435309

Plate No.	Object	R.A. 1900 1955	Declination 1900 1955	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.
22530	NGC 7078	21 27.8	+11 58	Newt	E103a-D		20 ^{sec}	2 12 43	2 13 05
22531	" "	"	"	"	"		3	2 15 11	2 15 11
22532	" 7089	21 31.2	-01 02	"	"		30 ^{sec}	2 23 11	2 23 41
22533	6864	20 03.5	-22 03	"	"		16	2:28:40	2 44 40
22534	6981	20 51.0	-12 43	"	"		12	2:47:50	2:59:50
22535	7099	21 37.8	-23 24	"	"		4	3:04:26	3:08:26
22536	7492	23 06.0	-15 53	"	"		10	3:13:20	3:23:20
22537	6838	19 51.5	+18 39	"	"		2	3 28 15	3 30 15

Air Temp.....

Transparency Conditions

Wind.....

Air Temp. 73°

Time M. M.	Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
2:13	023 W							
2:22	026 W							
2:31	028 W							
2:40	016 W							
2:50	014 W							
3:00	016 W							
3:10	017 E							
3:20	014 W							
							A good night though a bit hazy	

Date Thurs. - Fri. July 21-22/55 Observer S - Mo - Hg Julian Day 24353.10

Plate No.	Object	R.A. 1900 1955	Declination 1900 1955	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.
22538	NGC 5904	15 16.2	+02 15	Newt	E103a.0		2	21 19 25	21 21 25
22539	5634	14 27.3	-05 46	"	"		16	21 25 0	21 41 0
22540	6402	17 35.3	-03 13	"	"		14	21 45 15	21 59 15
22541	6539	18 02.4	-07 35	"	"		24	22 5 45	22 29 45
22542	IC 1276	18 08.8	-07 14	"	"		45	22 38 40	23 23 40
22543	6401	17 35.9	-23 53	"	"		24	23 27 27	23 51 27
22544	6642	18 28.7	-23 30	"	"		24	0 02 10	0 27 10
22545	6717	18 52.4	-22 47	"	"		20	0 41 20	1 01 20
22546	6712	18 50.5	-08 47	"	"		8	1 17 39	1 25 39
22547	6838	19 51.5	+18 39	"	"		3	1 29 30	1 32 30
22548	6760	19 08.8	+00 58	"	"		30	1 40 16	2 10 16
22549	6864	20 03.5	-22 03	"	"		14	2 15 26	2 29 26
22550	6981	20 51.0	-12 43	"	"		14	2 32 17	2 46 17
22551	7089	21 31.2	-01 02	"	"		30 ^{sec}	2 57 41	3 52 12
22552	7099	21 37.8	-23 24	"	"		4	3 00 30	3 04 30
22553	7492	23 06.0	-15 53	"	"		12	3 12 50	3 24 50

Dme Temp. 82°

Transparency Conditions Fair

86

Focus.....

Dme Temp. 77°

Ending Time E.S.T.	Dir Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
2:13	43 W						Focused on α Serp.	
2:14	53 W							
2:19	03 W							
2:27	07 W						20 sec disc trail	
2:34	54 W						Focused on η Serp.	
2:37	54 W						20 sec disc trail.	
2:41	37 W						(2) $\frac{1}{2}$ minute extra time spent on RA. because decl. motion would not work.	
2:46	48 W						Focused on η Serp no guiding	
2:53	14 W							
3:01	20 W							
3:07	41 W						Focused on γ Aquilae no guiding	
3:19	05 W							
3:26	35 W							
3:32	10 W							
3:37	30 W							
3:41	35 E						No guiding All dust on eye plate removed.	

87

1955 Mn
 Date Fri. Sat. July 22-23 Observer Mo, + HV Julian Day 2435.313
 0119 18 33.8 3438.3

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.
22554	HD 172403	18 ^h 34.9	-09° 14'	I-12 $\frac{1}{2}$	E 103A-0	.016	32.4	20 50	22 20
22555	BD+47°3421	21 ^h 25.0	+47° 37'	"	"	.016	32.3	22 32	01 02
22556	H.D.E. 239767	21 43.1	55 27	"	"	"	-	01 11	24 20
<i>From July 22-23</i>									

Time Temp. 86°F

Transparency Conditions Good

88

Focus 12 960

Time Temp.

438.3

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
2 20	35E	-9° 09	1	9.28	B ₉ I _b	1-1-1	Set 2 ME SE MTW STW S SW ME July 22 -8.3 ⁵ +13.0 ^{10.5} 10.5 0.1 12.5 10.5 -5.1	fine
01 20	43E	+47° 51	1-0	10.12	A ₀ I _{0b}	1-1-1	Set 8 OB P. 5 OB P. 12 FLEXURE	fine
02 02	5E	-	0	9.95	B ₀ V P.V.	1-2	11 2	v.wk.
						4/3	18 Clouded in suddenly at 2.00 Considerable lightning	causing visibility to diminish
							4 P.H. No Heat	

89

K

Date Sat-Sun July 23-24/55 Observer MR - K Julian Day 2435312

0 120 15 52.1 3438.7

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.
22557	HD 154528	17 ^h 00.9 ^m	+77° 48'	J-12 ^{1/2}	103a-0	^{set} .008	+29.2	22:42	22:58
22558	[HDE 229234	20 20.3	+38 12	"	"	^{set} .016	"	23:08	0:28
22559	[HDE 229227	20 20.2	+38 08	"	"	"	+29.0	0:37	2:57
22560	[HD 217312	22 54.8	+62 32	"	"	^{set} .008	+28.8	3:07	3:23
22561	[HD 217811	22 58.2	+43 31	"	"	^{set} .016	+28.9	3:39	3:40
	"	"	"	"	"	"	-	3:41	3:43
	"	"	"	"	"	"	-	3:45	3:51
	Focus Test	O.T.B.				"			

One Temp. +77°F

Hum. 12.960

One Temp. +69°F

Transparency Conditions good, but passing clouds

90

120 visitors; gave lecture & demonstrated telescope
(3RASC) taken cleared & showed MS, E Lyr, Ring neb.
(new mirror making MS & Ring neb very good)

Ending Time E.S.T.	Star Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
22:55	146 W	+77° 42'	0	6.7	A0	2-2-2	set 2 SB	Strong
08:00	07 E	+38 23	0	9.4	09.5 II	1-1-1	set 2 OB p.9	fine
21:52	23 W	+38 21	0	9.9	B0 II	1-1-1	" 8 OB p9	fine
8:25	14 W	+62 49	0	7.8	B0 IV	2-2-2	set 2 OB p22	fine
3:10	—	+43 48	0	6.1	B3 MS	3	set 1 B. St Vel.	fine
3:10	—	"	"	"	"	3	5 "	fine
3:30	36 W	"	"	"	"	3	9 "	fine
						4/3	Set 8	OK

Big fire in Richmond Hill 1:00
cloud in N4W, 3:15

} Through clouds
→ Solid cloud

4 PH
No Heat

NE SC MTW STW S SW ME
JUL 27 -10.8 +20.5 -38.0 40.8 -5.1 -59.3 -6.1

91

Date 1955 Jul 24-25 Sun. Mon. Observer Mo-Hg Julian Day 2435.313

0121 13.10.8 3439.1

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.
[22562	HD 173010	18 38.1	-09 26	I-12 $\frac{1}{2}$	E103a+0	set 0.016	+20.3	20 48	23 40
[27563	HDE 239828	21 58.1	+59 02			"	"	23 55	2 37
[27564	BD 59 2716	22 13.0	+54 59			"	"	3 06	3 55
[27565	HD 9812	01 30.3	+58 08			"	"	4 03	4 11
	From Table	073				"			

Dme Temp... 74°F

Fcus... 12.960

Dme Temp... 65°F

Transparency Conditions ... Excellent... could see θ seen $\delta = -43^\circ$

92

Ending Time E.S.T.	Star Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
3 4:0	50W	-09 21 1/2	1/2	10.01	^(e?) B ₀ Ia	1-1-1	Set 2 - OB p5	fine
2 7:0	22W	+59 15	1	10.26	B ₅ Ia	1-1-1	" 8 OB p.12	1 strong
3 7:1	28W	+55 13	1	9.2	B ₁ ^I _{II}	1-1-1	set 2 ←	fine
4 11:3	38E	58 21	1	7.4	B ₅ ms	1-1-1	Set 5	strong OK.
						4/3	Let 9	
							2 PM	
							ME SE MTW STW S SW ME JUL-25 -9.5 128.1 -17.3 -0.4 +4.6 753.2 -1.8	

The Hrc is out by 3min and the drawn field does not check but Gus, who saw the field at the time of setting says this is the correct star.

93

Date *Mon July 25-26/55* Observer *L. H. G.* Julian Day *2435314*

① 122 10 29.9 3439.4

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.
22566	H.D. 173987	18 43.2	-06 ³⁴ 25	I-12 $\frac{1}{2}$	E-103A	set 016	26.9	20 55	22 55
22567	B.D. 45° 3339	20 53.2	45 58	"	"	"	26.8	23 00	1 20
22568	H.D. 205139	21 28.3	+60 01	"	"	"	26.7	1 46 15	1 47 15
	"	"	"	"	"	"	"	1 50 30	1 51
	"	"	"	"	"	"	"	1 54 00	1 56
22569	55° 2748	22 21.5	+55 47	"	"	"	26.6	2 19	4 09
	<i>Lucas P. 7</i>		078			"			

97

Date 1955 Jul 28-29 Thu-Fri Observer Mo-K Julian Day 2435317

0125 02 29.5 3440.9

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.
22570	HD 173783	18 42.0	-09 25	I-12½	E1030-0	0.016	+28.0	20 50	22 30
22571	BD +28° 3434	19 37.3	+28 55	"	"	0.008	+27.9	22 36	23 18
22572	HD 170010	18 22.2	+06 28	"	"	0.016	+27.9	23 26	23 42
22573	BD +27° 3550	19 50.0	+28 05	"	"	"	+27.7	23 47	1 17
22574	BD +45° 3406	21 03.0	+45 27	"	"	"	+27.5	1 25	3 15
22575	BD +61° 2529	23 43.6	+61 26	"	"	0.008	+27.5	3 23	4 07
	Focus Test	C.T. 13		"	"	.016			

Dme Temp...76°

Fus...12.960

Dme Temp...+66°

Transparency Conditions Excellent.....

98

440-9

Ending Time E.S.T.	Star Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
22 30	08E	-09 20	1-2	9.66	D ₉ I	1-1-1	Set 2 OB p. 5	good
23 00	14E	+29 02	2	8.5	B ₁ I _b p M.S.	2-2-2	" 8 OB p. 7a	fine
23 40	24W	+06 31	2	8.4	B ₇	1-1-1	" 5 OB std vel.	little bit
1 17	32W	+28 14	2-1	9.9	B ₉ I _a	1-1-1	" 2 OB p. 7a	fine
3 15	17W	+45 41	1-2	10.11	B ₅ I _a b	1-1-1	" 8 OB p. 12	little bit
1 50	28W	+61 45	1	8.4	B ₁ I ₆	2-2-2	" 2 OB p. 24	fine
						4/3	" 8	OK

3 PH

No Heat

Finder light was on new the

finder telescope, that is not used

MC	SC	MTW	STW	S	SW	ME
July 29	-11.7	+29.9	-57.5	(-1.1)	-6.8	+13.3
						-7.9

99

Date July 29-30 Fri./55 Observer L-K Julian Day 24353.18
 @ 125 59 50.4 344.5

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.
22576	¹⁷³⁶³⁷ H.D. 17637	18 41.2	-08 02	I 12 $\frac{1}{2}$	E-103A _o	set .016	+28.0	20 55	23 15
22577	BD +25 3438	19 38.1	28 46	"	"	"	+28.0	23 19	23 55
22578	BD +25 ^o 4083	19 59.8	+26 00	"	"	"	+27.9	0 00	1 12
22579	HD 212883	22 22.4	+36 57	"	"	"	-	1 20	1 22
	"	"	"	"	"	"	-	1 23	1 27
	"	"	"	"	"	"	27.8	1 28	1 36
22580	BD +60 ^o 2493 Formo Tent	23 05.4	+60 55	"	"	"	28.0	1 48	3 58
	C.T.B.					"			

Dne Temp. +76°F

Bus. 12.960

Dne Temp. +70°F

Transparency Conditions *Some haze*

100

Ending Time L.L.T.	Sur Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality	
3 15	41 W	-07 57	0.1	9.63	B ₁ V	1-1-1	Set 2 O.B. prog. p5	fine	
3 55	26 W	+28 53	1	8.7	B ₂ IV	1-1-1	" 8 " " p.7a	fine	
1 12	21 W	+26 10	1	9.4	B ₁ III	1-1-1	" 2 " " "	fine	
1 21	—	—	1	6.2	B ₂	3	Set 1 B. St. Vel	fine	
1 27	—	—	1	"	"	3	" 5 "		
1 32	38 E	+37 13	1	"	"	1-1-1	" 9 "		
1 51	02 W	+61 13	1-2-1	10.26	B ₀ spe	1-1-1	Set 6 O.B. prog. p16	fine	
						4/3	" 10	clock lights on - slit for a few minutes * lost in haze 3:58	O.K.

4 PH
No Heat

anyone got a longer pencil?

1-2

Date Mon Aug 2-3/55 Observer L-K Julian Day 2435.321
 ☉ 128 51 56.8 3443.7

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.
22581	V 805 Aq1	19 00.7	-11 48	I-25	E-103A	Set 008	32.0	21 09	22 49
22582	MWC 380 HD 205060	19 41.3	05 44	"	"	"	31.9	22 59	01 59
22583	MWC 371 HD 209296	21 27.7	+42 16	"	"	"	31.9	1 11	1 41
22584	MWC 383 HD 223501	21 57.2	+56 14	"	"	"	31.8	1 49	2 59
22585	MWC 402	23 45.0	+61 39	"	"	"	31.7	3 07	4 17
	Focus Test	O.T.B.							

Tue Aug 2-3 — Too many clouds to make an exposure — K
 Fri-Sat Aug 5-6/55 — Clearing about 0:00
 Clouding over again 0:20 — K

Sat Aug 6/55 — Only 60 mins — H₂

Air Temp. 85°F
 Dis. 15.914
 Air Temp. 76°F

Sun - July 31: -K
 Too hazy.

Transparency Conditions

Sat July 30: W 130 visitors, observed 1113 in day
 day; 5 HAPC etc. on 2, Saturn etc. Too cloudy
 to do any seeing. MR, Mo.

Ending Time E.S.T.	Angle Eud	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
22 45	07W	-11 43	0	7.8	A2	4-4-4	Set 2 Eclp. Bin some clouds, delayed	good start
0 59	38W	05 53	0	8.5	B ₅ ne	4-4-4	Set 2 Be Prog.	slim weak
1 41	34W	+42 32	0	7.1	B ₅ (n)e	4-4-4	" 8 " " Seeing faintly	fine
2 59	23W	+56 30	0	8.1	B ₅ (s)e	4-4-4	" 2 " " 2:00 getting quite hazy.	good
4 12	53W	+61 58	0	8.2	B ₃ e	4-4-4	" 8 " "	fine
						15/10	Set 8	OK.

1 PH.
 Aug 2 -14.2 5C 128.6 5 -93.5 5 -1.7 5 -10.4 5 142.9 5 -1.2

103

Date 1955 Aug 7-8 Sun-Mon. Observer Mac K Julian Day 2435327

0134 36 33.1 3450.1

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp. 257	Starting Time E.S.T.	Ending Time E.S.T.
22586	V809 Aquilae	19 00.7	+11 48	I-23	E103a-0	0.008	+26.0	20 22	22 06
22587	η Scuti	18 51.7	-05 58	"	"	"	+25.6	22 13	22 23
22588	HD 164284	17 55.3	+04 22	"	"	"	"	22 21 40	22 31 30
22 23								22 33	
22 27								22 41	
22589	6 Cap	20 12.5	-12 51	"	"	"	"	22 28 15	22 39 30
22 07 30								22 07 55	
22 03 30								22 09 30	
22590	HD 182312	17 11.3	+12 56	"	"	"	+25.5	23 17	23 57
22591	HD 182343	17 21.0	+12 05	"	"	"	+25.4	0 06	0 11
22592	HD 195057	20 36.0	+30 39	"	"	"	+25.4	0 45	1 33
22593	HD 195092	20 37.2	+43 19	"	"	"	+25.5	1 38	2 06
22594	HD 526095	35 58.3	+56 10	"	"	"	+25.4	2 17	2 57
22595	HD 10742	1 55.6	+59 12	"	"	"	+25.4	3 01	4 21
	Form Test	O.T.B							

Air Temp... +74°F

Transparency Conditions Good

Obs. 15:30L

Air Temp... +57°F

Ending Time E.S.T.	Angle Ind	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
21:00	72 E	-11 42½	0	7.8	Az	4-4-4	Set 5 Ed. Bin.	fine
21:05	14 W	-05 52½	1½	5.9	K III	4-4-4	" 1 OLS	good
		+04 24	1½	4.8	B ₅ ne	12	1½ Be.	
						12	5	
21:10	29 W					12	9½	fine
			1	4.4	G ₉ III	-	1½ OLS	
						12	5	good
						-		fine
21:15	21 E						9½	fine
21:20	30 W	+13 01	½	7.7	B ₃ ne	4-4-4	2 Be.	sl. wk
21:25	57 W	+18 14	0	6.9	B ₉ sex	4-4-4	8 Be	too weak
21:30	51 W	+36 53	0	7.7	B ₂ e	4-4-4	" 2 Be	good
21:35	21 W	+44 12	0	7.2	B ₁₅ e	4-4-4	" 8 Be	sl. weak
21:40	19 E	+55 18	0	7.6	B ₁ e	4-4-4	" 2 Be	good
								fine
							MC SC MTW STW S SW NE Aug 5 -16.0 +2.8 +1.7 -0.2 -12.2 +14.2 +1.1	
21:45	51 E	+47 27	0	8.2	B ₂₀ e	4-4-4	" 6 Be	good
						1½/10	" 10½	fine
							2 P.H.	O.K.

Home Temp. 66°F

Humus 15.770

Home Temp.

Transparency Conditions *Haze*

106

clouds from S.W. at sunset delayed start

3451-4

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
23	14N	23 16	00	6.9	B3e	4-4-4 15/10	Be Prog. haze clouds, 1 PH load 1.	weak O.K.
							K - Haze + cloud.	
							MC SC MTW STW S SW ME	
							Aug. 8 -17.2 +8.5 -30.9 ^S -7 ^m -16.6 +11.4 ^S +0.9 ^S	
							10 -19.8 +12.5 -49.9 ^S -7 ^m -19.6 -11.3 ^S -3.0 ^S	

107

Date *Star Aug. 11-12/55* Observer *L-Mg* Julian Day *2435.331*
 ☉ 138 26 41.6 3455.7

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.
22597	L.D. 15452B	17 00.9	77 48	I-28	F-103A	<i>Set</i> 308	26.3	20 40	20 55
(22598	MWC 307	18 41.7	-10 21	"	"	"	26.2	21 06	22 47
(22599	" 332	20 04.8	36 02	"	"	"	26.1	23 32	1 10
22600	" 336	20 12.4	57 04	"	"	"	26.0	0 28	1 08
22601	" 407	23 53.2	46 09 45 52	"	"	"	25.8	2 20	2 24
22602	VE48 CYANI	19 54.6	54 32	"	"	<i>Set</i> 015	25.8	2 46	3 48
22603	MWC 357	19 11.4	79 40	"	"	<i>Set</i> 025	25.8	4 02	4 31
	<i>Emulsion T-d</i>		<i>DTB</i>						

Dne Temp. 73°F

Mus. 15.812

Dne Temp. 67°F

Transparency Conditions Good

108

Ending Time E.S.T.	Star Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Set	REMARKS	Quality
	00W	77 43	0	6.7	A ₀	4-4-4	Set 2	Sp. Bin	over develop ^{ed} fine
	54W	-10 16	0	8.1	B _{3e}	4-4-4	Set 2	Ce Bin (for last 30 min)	weak
	59W	36 13	0	7.1	B _{ene}	4-4-4	Set 8	Ce Bin some haze	fine
	55W	32 16	0	7.0	B _{one}	4-4-4	Set 2	B _e Bin	over develop ^{ed} good
	30E	46 10	0	6.5	B _{3ne}	4-4-4	Set 8	B _e Bin	over develop ^{ed} good
	55W	54 41	0	9.0	A ₀	4-4-4	Set 9	Eclipsing binary	over develop ^{ed} too weak
	223W	49 59	0	6.8	A _{ve}	4-4-4	Set 2	Ce Bin Thin cloud	over develop ^{ed} too weak
						15-10			O.K.

	MC	SC	MTW	STW	S	SW	ME
Aug 12	-20.2	+16.1	-54.5	-9m	-24.7	-3.0	+0.7

Date Sun Aug 14-15/55 Observer L. Ho Julian Day 2435334

014 19 33.1 3460.1

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.
22604	^{HD 19552} M.W.C. 347	20 22.2	43 59	I-25	E103A ₀	⁵⁰⁹ 008	21.0	23 24	0 00
22605	^{HD 19509} M.W.C. 336	20 12.9	32 04	"	"	"	21.0	0 09	0 35
22606	^{HD 208775} M.W.C. 316	21 34.3	57 17	"	"	"	21.0	0 45	1 15
22607	^{HD 19875} M.W.C. 343	20 40	42 42	"	"	"	20.0	1 57	2 51
22608	^{HD 209533} M.W.C. 307	20 53.3	48 52	"	"	"	20.0	2 16	2 30
22609	^{HD 4123} M.W.C. 3	0 39.2	42 44	"	"	"	20.0	3 38	3 45
								3 47	3 49
								3 51	3 58
	Faces Test	01B							

Dne Temp... 67°F
 Focus 15.724
 Dne Temp... 73

Transparency Conditions

110

clouds in evening, then clearing

Ending Time E.S.T.	Star Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0.00	44 W	44 09	1-2	7.2	Bise	+44	Set 2 Be Ring.	fine
1.00	34 W	32 16	2	7.0	Bon	+44	Set 8 Be Ring	fine
1.10	40 W	57 32	1-2	7.1	Bon	+44	Set 2 Be Ring	fine
2.00	10 W	49 5 E	1-2	6.8	Ave	+44	Set 8 Be Ring	fine
2.10	3 E	46 10	1-2	6.5	Bon	+44	Set 2 Be Ring	fine
							Too dim	
3.00		48° 03	1	4.7	Bon	12	Set 2	fine
			1			12	Set 5	
3.10	28 W		1			12	Set 8	
						15/10	Set 1	O.K.
							MC SC MTW STW S SW ME	
							Aug. 15 -22.6 +18.5 +7.1 -1 ^m -35.6 +16.6 -4.9	

Dne Temp.....+72°

Feus.....15.756

Dne Temp.....

Transparency Conditions Fair, after clouds cleared.

112

Ending Time E.S.T.	Star Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
2 50	29 W	-11 40	3	8.2	A ₂	4-4-4	Set 2 - Ed. Bin	good
2 50	17 W	+54 40	3½	9.0	A ₀	2-2-2	Set 8 " "	fine
2 51	51 W	+62 20	3	7.55	K ₀	4-4-4	" 2 Vis Bin	fine
2 51	51 W	+49 56	3	7.77	M ₆	4-4-4	" 8	good
2 51	✓	+39 20	3	7.42	K ₂	4-4-4	" 2	little wk
2 51	✓	+22 50	2	7.59	K ₀	4-4-4	" 8	fine
2 51	✓	30 15	2	7.34	K ₀	4-4-4	" 2	fine
2 51	✓	57 22	2	7.74	K ₂	4-4-4	" 8	weak
2 51	✓	58 57	2-3	7.50	F ₅	4-4-4	" 2	fine
						15/10	" 8	O.K.
							Comparison rather weak on last four plates and focustert	
							294 + 6	
							No Heat	
							MC SC MTW STW S SW ME	
							Aug 17 - 22.6 +19.5 -8.5 -.4 ^m -42.8 +27.4 +11.7	



Size of image

At 23:16 star jumped twice length of slit in declination. Was clamped in clac.

0515 Very thick ground

Comparison rather weak on last four plates and focustert

294 + 6

No Heat

MC SC MTW STW S SW ME

Aug 17 - 22.6 +19.5 -8.5 -.4^m -42.8 +27.4 +11.7

113

Date Thurs Aug 18 19 Observer L-K Julian Day 2435.332
 @ 145 10 21.0 3465.4

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.
22619	V548 Cyg	19 54.6	59 32	I-25	E-1001a	50 516	29.1	22 14	23 20
[22620	MWC 361	21 00.4	67 47	"	"	1008	29.0	23 27	0 17
[22621	MWC 366	21 16.7	+61 25	"	"	"	29.0	0 24	0 50
[22622	MWC 10	0 59.4	+65 26	"	"	"	29.0	1 01	1 45
[22623	MWC 13	1 21.6	+62 51	"	"	"	29.0	1 53	2 57
22624	MWC 13	1 05.9	+69 19	"	"	"	29.0	3 08	4 38
	Focus Test	C.T.B.		"	"	"	29.9		

Dme Temp... 73°F

Ptus... 15.354

Dme Temp... +71°F

Transparency Conditions.....

114

Clouds and haze at sunset clearing slowly.

Ending Time E.S.T.	HR Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
3	53W	54 40	0	9.0	AO	2-2-2	Set 2. Ed. Riv.	weak
	45W	67 53	0	7.2	Bse	4-4-4	Set 2 Be. B.	good
	03W	+61 141	0	6.5	B-se	4-4-4	" 8 " "	good
	48E	+65 43	0	7.1	Bse	4-4-4	" 2 " "	poor guiding good
	01E	+63 06	0	7.5	cBse	4-4-4	" 8 " "	good
	04E	+48 31	0-1	7.9	ETNE	4-4-4	" 2 " "	fine
						15/10	" 8	O.K.

2PH + 2

	MC	SC	MTW	STW	S	SW	ME
Aug. 19	-23.9	+22.2	-30.2	-5.7	-48.9	-19.9	+3.8

115

Date Fri-Sat Aug 19-20/46 Observer K-Hg Julian Day 2435.339

© 146 08 07.0 3466.7

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp. 31.3	Starting Time E.S.T.	Ending Time E.S.T.
22625	ADS 10127	16 32.6	+34 01	I-25	E1039-C	Set 0.008	31.2	20 30	22 00
22626	V549 Lyg	19 54.6	+54 32	"	"	.016	31.0	22 08	23 10
22627	ADS 14027	20 30.7	+32 10	"	"	.008	31.0	23 17	0 41
22628	ADS 15798	22 11.8	+33 14	"	"	"	30.8	0 50	2 24
	Focus Test	OTB					30.8		
			Too cloudy to continue				300 E.S.T.		

Dne Temp. +84°F

Eus. 15.896

Dne Temp.

Transparency Conditions

light haze
cloud at sunset

116

Ending Time E.S.T.	Hour Angle End	Declination		Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
2	58 W	+33	56	0-1-0	7.89	K0	4-4-4	Set 2 Vis. Bin.	weak
3	47 W	+54	41	0	9.0	A0	4-1-1	Set 2 Gel. Bin.	good
6	42 W	+32	22	1/2	7.83	K0	4-4-4	Set 8 Vis. Bin.	good.
20	13 W	+33	32	0+	7.91	F8	4-4-4	" 2 " 8 thin dark horizon	good centre slightly to red
3 PM									

117

Date 1955 Aug 30.00 Sun Observer H. M. Ho Julian Day 243534.0

0147 05 53.7 2467.8

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp. 30.8	Starting Time E.S.T.	Ending Time E.S.T.
226279	ADS 12661	19 31.3	+05 48 ^e	7-25	F1030-C	0.005	31.2	27 20	00 102
2262730	ADS 15728	22 09.0	+37 14	"	"	"	130.8	00 07	00 15
226271	ADS 13765	20 18.0	+37 56	"	"	"		00 25 40	00 26 11
								00 27 45	00 28 25
								00 30 05	00 31 20
								00 31 11	00 34 11
[226272	ADS 16325	22 47.5	+42 46	"	"	"	43.8	00 44	01 00
[226273	ADS 16227	22 59.4	+41 17	"	"	"	43.7	01 05	01 21
[226274	ADS 16526	22 03.1	+45 50	"	"	"	43.6	01 29	02 17 ^{BT}
[226275	ADS 15912	23 35.1	+57 06	"	"	"	43.5	02 17	03 15
	From film	718					43.5		
								leg for print	325

Due Temp. 20°

Pass 15.887

Due Temp. 76°

Transparency Conditions Fair in zenith - poor at horizon

200 vicinals shown M12 and M57

Mo. Hg

118

Ending Time E.S.T.	Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
06W		+05 56	1.0	7.61	K6	4-4-4	Sid 12 V. B.	weak
06E		+37 20	1/2	5.25	K2	12		weak
		+42 07	1	2.5	F8	-		
								good
51W								fine
06E		+43 25	1	6.11	K2	4-4-4		weak
16W		+41 35		6.11	K3	4-4-4		little weak
40W		+46 10	1	6.59	K5	4-4-4	2/2	weak
15W		+37 24	1.0	6.33	F8	4-4-4	9 15/10	good
							1 PM Focus test superposed	centre very slightly to red

Date Temp. $+87^{\circ}F$
 2018. 15. 922
 Date Temp. 15. 922

.900
 .022
 15.
 15.922

Transparency Conditions Good

120

Ending Time E.S.T.	Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
11 41	28 W	+11 33	0-1-0	8.08	K2	4-4-4	Set 2 Vis. Bin → <i>Trans. 7 lightening in the West</i>	weak flexure
12 52	54 W	+19 48	1	7.80	K5	4-4-4	" 8 " " → <i>storm clouds in West</i>	weak
13 58	10 W	+52 14	1	6.88	E5	4-4-4	" 2 " "	good
14 00	10 W	+54 11	1	9.0	A0	2-2-2	" 2 Sel. Bin → <i>st. still there</i> 0005 Clouded out 0128 Cloud + lightening	weak centre very slightly to red.
							2.8 P+1	
							MC SC MTW STW S SW ME	
							Aug. 22 -25.3^S $+27.8^S$ -33.2^S $+9.8^m$ $+16.5^S$ $+9.7^S$ $+8.8^S$	

121

Date 1955 Tue-Wed Aug 23-24 Observer K - Hr Julian Day 2435.343

0 149 59 20.8 3471.4

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp. 22.0	Starting Time E.S.T.	Ending Time E.S.T.
22640	ADS 10535	17 21.0	+37 02	1-25	E103a-0	Set .008	22.0	21:00	21:40
22641	ADS 11494	18 31.8 ⁵	+4 52	"	"	"	21.8	21:52	23 12
22642	V548 Lyg.	19 54.6	+54 32	"	"	.016	21.6	23:24	0:44
22643	ADS 15612	22 00.2	+32 28 ⁷	"	"	.008	21.3	0 53	01 43
22644	" 16641	23 15.3	56 41	"	"	"	21.7	01 51	04 01
22645	" 1724	02 27.2 ⁴	36 52 ³	"	"	"	21.8	04 28	04 38
<p>Trans. Cent. OXB.</p> <p>Wed Aug. 24. Prepared telescope for observing, but sky never good enough for a plate. Hopeless at midnight. - Mo</p>									

Date Temp. +66° F
 15.740
 5.8

.718
 022
 15.
 15.740

Transparency Conditions: Excellent except for
 Broken cloud at start

122

Ending Time E.S.T.	Angle nd	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
11:03	05W	+37 01	0	6.90	G5	4-4-4	Set 2 Vis Bin Image Unsteady	fine
11:05	27W	+4 56	0	7.64	K2	4-4-4	" 8 " " " "	weak
11:07	37W	+54 41	0	9.0	A0	2-2-2	" 2 Sel Bin	fine
11:09	0W	32 43	0	6.90	G5	4-4-4	" 2 Vis Bin	good
11:12	22W	57 00	0	7.94	K2	4-4-4	" 8 " "	weak
11:15	00E	37 06	0	6.53	K0	4-4-4	" 2 " "	good
						15/10	" 8	very slightly to red.

2 P.H.

	MC	SC	MTW	STW	S	SW	ME
Aug. 24	-26.3 ^S	+31.5 ^S	-43.2 ^S	+1.5 ^{mv}	+10.4 ^S	+19.6 ^S	+2.7 ^S

123

Date Thursday Aug 26/55 Observer Hg Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.
22646	ADS 16211	22 38.3	+29 42	I-25	N 10300	dot 100	23.0	01 08	01 09
								01 10	01 12
								01 14	01 13
22647	ADS 16810	23 26.6	+51 52	"	"	"	23.0	01 35	03 15
	Focus Test	OTB					23.0		

125

Date 1955 Sat-Sun Aug. 27-28 Observer K-M Julian Day 2435.347

0153 50 54.0 3476.5

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.
[22646	ADS 12750	19 34.9	+16 21	I-25	E103a-0	Set .008	25.0	21 : 58	23 40
[22647	ADS 16550	23 04.5	+8 08	"	"	"	24.7	23 : 52	0 22
[22648	MVC 381 HD 208653	21 52.9	+64 52	"	"	"	+24.6	00 35	00 49
[22649	MVC 345 HD 217513	22 56.3	+38 28	"	"	"	+24.6	00 53	01 17
22650	ADS 18520	23 02.5	+70 03	"	"	"	+24.6	01 22	03 16
	Focus test	C.T.B.				"	+24.3		

04 EST

Beautiful green auroral arc across northern sky. Later whole northern sky filled with dancing streamers. Some were as far south as the celestial equator.

Transparency Conditions Good. - Some cloud in S+E
 125 Visits shown 13 lyp. 126
 L.K. 2 RASC Telescopes.

One Temp... +70°F
 Bus... 15.787
 One Temp... +60°F

Ending Time L.S.T.	Star Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
23	09W	+16 28	0	7.72	K5	4-4-4	Set 2 Vis Bin. Cloud moving up from the SE at 23:00	weak
23	40E	+8 27	0	6.28	M6	4-4-4	" 8 " "	good
20	00W	+65 06	0	5.8	B3mc	4-4-4	" 2 Be.	sl. strong
21	23W	+38 27	0	6.4	B3mc	4-4-4	" 8 Be	sl. strong
23	16W	+20 20	0	7.67	Kc	4-4-4	" 2 Vis Bin. Clouds from south. Star gone for 12 min at 2:28. Many cloudy intervals later.	good
						20-15		O.K.
L.P.H. loaded								
							MC SC MTW STW S SW NE	
							Aug. 29 -28.4 ^s -1.1 ^s -51.4 ^s -4 ^m -11.0 ^s -7.0 ^s -0.4 ^s	

Home Temp. 170.5

bcus 15.768

Home Temp.

Transparency Conditions Good after clouds left.

128

Ending Time EST.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
	48 W	+ 77 43	0	6.7	A ₀	4-4-4	set 2. Sp. Bin. Practically covered by clouds till 20:21	fine
	36 W	+ 33 56	1 1/2	7.89	K ₀	4-4-4	" 2 Vis Bin. Covered by cloud at 20:50 to 21:26	good
	07 W	54 43	0	9.0	A ₀	2-2-2	" " E. Bin.	fine
	41 W	36 37	0	7.34	K ₀	4-4-4	" 2 Vis Bin. ⁰³⁰⁰ Strong SW wind Telescope unsteady. Broken cloud.	good
						15/10	" 8	OK

1 P.H.

Aug. 31 MC SC MTW STW S SW NE
 -29.4 -0.8 +19.5 -9^m -20.7 +10.1

Time Temp. +63°F

Focus 15.725

Time Temp.

Transparency Conditions Large Patches of cloud.

130

3482.4

Ending Time E.A.T.	Sur Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
	44W	+49 01	0	6.31	Ma	4-4-4	Set 2	good
						15/10	" 8	O.K.
							1 PH + 3	
							- Thru. hazy cloud. Exposure stopped by cloud <u>cloud</u> .	

131

Date 1955 Sept 1-2 Thu-Fri Observer K-Hg Julian Day 2435352

☉ 158 40 50.9 3484.0

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit Set	Temp.	Starting Time E.S.T.	Ending Time E.S.T.
(22656)						.008	19.9		
22656	ADS 15973	22 25.9	51 54	L-25	E 10020	.008	18.7	00 40	01 30
22657	ADS 16524	23 53.1	45 50	"	"	"	18.7	01 37	02 15
22658	ADS 16181	23 15.5	50 40	"	"	"	18.7	02 24	04 52
	Formo Tol 418						18.6		

ime Temp. +61°F ^{Sept 1-2 clearing at sunset} Transparency Conditions
 Focus 15.708 692 ^{so I opened up then it clouded over again.}

132

ime Temp. 56

Clearing well now 12:30

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
	26 W	52 13	1-0	7.08	G5	4-4-4	Vis Binocular set 2	fine
	34 W	40 08	1	6.59	K5	4-4-4	set 8 vis Binocular	good
	359 W	57 00	1-0	7.94	K2	4-4-4	set 2 Vis Bin <small>clouds very low in west & east</small>	good
						15/10	set 8	O.K.
							2 PM	
							MC SC MTW STW S SW ME	
							Sept. 2 -29.8 ^S +0.3 ^S -34.9 ^S -1.0 ^M -27.9 ^S +26.6 ^S -1.7 ^S	

133

Date 1955 Sept 2-3 Tri-Sat Observer K-H V Julian Day 2435.353

☉ 159 38 54.9 3485.7

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.
22659	ADS 9908	15 58.9	+11 42	I-25	E103e-c	^{Set} .008	22.0	19 : 38	21 : 58
22660	ADS 12750	19 34.9	+16 21	"	"	"	"	22 : 07	22 : 11
22660	V548 Egg.	19 54.6	+54 32	"	"	.016	22.0	22 : 18	23 48
22661	ADS 15431	21 49.6	+19 51	"	"	.008	21.9	23 : 56	00 46
22662	" 16810	23 26.6	51 52	"	"	"	22.0	00 54	00 14
22663	" 16690	23 16.2	61 39	"	"	"	22.0	02 22	03 32
22664	" 1233	01 28.6	62 34	"	"	"	22.0	03 39	04 39
	Flam Test			O.I.B.					

Line Temp. $+66^{\circ}F$ Focus 15.740 Line Temp. $62^{\circ}F$ Transparency Conditions *Slight Haze*

134

Sur Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
4 25W	+11 34	0	8.08	K2	4-4-4	Set 2 Vis. Bin.	had flare weak
		0	7.72	K5	4-	" 8 \rightarrow forgot the Binary.	
4 20W	+54 41	0	9.0	A0	2-2-2	Set 2 Gal. Bin.	fine
4 23W	+19 30	2	7.26	K0	4-4-4	" 2 Vis. Bin.	good
4 14W	52 11	2	7.86	F5	4-4-4	" 8 " "	fine
4 43W	62 00	2+	7.65	K5	4-4-4	" 2 " "	good
4 35W	62 51	2-3	7.59	K0	4-4-4	" 8 " "	comp. wt. fine
					15/10	" 2	O.K.
						2 P.H.	

Date Sept - Sun Sep 3/4, 1955 Observer AK - Hg Julian Day 2435.354

① 160 37 00.6 3487.5

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.
[22646	15770	21 055	+14 01	ITF	E 2000	lit 100	22.5	02 58	00 00
[22646	15874	21 125	+14 10	"	"	"	22.8	02 09	01 25
[22647	938	30 332	+44 34	"	"	"	22.3	01 30	02 30
[22648	253	01 130	+39 20	"	"	"	22.1	02 35	04 15
[22649	1574	02 189	+24 45	"	"	"	22.1	04 20	04 40
[	Yours lit	570					22.0		

Dne Temp. $+72^{\circ}F$

Eus. 15.772

Dne Temp.

Transparency Conditions *Hazy*

138

Start delayed by cloud and haze at sunset.

Star LT	Star End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
9 03	22 W	24 32	1	7.37	K0	4-4-4	Set 2. Vis. Bin.	sl. wk.
11 09	35 W	14 29	0-1	7.52	K0	4-4-4	Set 3 " "	sl. wk.
12 02	10-1	39 20	0	7.42	K2	4-4-1	Set 2 Vis. Bin. <i>Thin half clouds this way</i>	sl. wk. comp. wk.
2 12	55 W	154 -13	0	9.0	A0	2-2-2	Set 2 Est. Bin. <i>cloud in NW 0:50</i>	good
						15/10	" 8 <i>1:30 mag increasing with distance Subst. w/ cloud 2:12</i>	O-K
							4 PH.	

Date Mon. Sept. 5-6 Observer Mo, Mn - Hg Julian Day 2435.356

① 162 33 17.5 3491.4

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.
22674	MWC 307								
	HD 174886	18 ^h 47.7	-10° 21'	I-25	E103a-0	.008	22.0	19 26	21 02
22675	MWC 317								
	HD 183143	19 ^h 23.0	+18° 05'	I-25	E103a-0	.008	21.9	21 09	21 57
22676	MWC 352								
	HD 198123	20 ^h 43.5	+36° 07'	I-25	Hi-Speed	.008		20:04:00	20:07:30
"	"	"	"	"	"	"	21.8	20:08:30	20:15:00
"	"	"	"	"	"	"	21.8	20 21	20 35
22677	MWC 353								
	HD 198478	20 ^h 45.5	+45° 45'	I-25	E103a-0	.008		22 40 00	22 41 30
"	"	"	"	"	"	"		22 42 00	22 45 00
"	"	"	"	"	"	"	21.9	22 45 30	22 51 30
22678	HD 154528	17 00.9	+77 48	"	"	"	21.7	23 08	23 30
22679	V548 Cyg	19 54.6	+54 32	"	"	.016	21.8	23 44	00 46
22680	ADS 10247	22 40.9	+29 56	"	"	.008	21.8	00 58	02 10
22681	ADS 544	00 31.6	+48 48	"	"	"	21.7	02 22	02 52
22682	ADS 1560	01 57.0	+40 51	"	"	"	21.8	02 57	04 55
	Four Test	01.8		"	"	"	21.5		

141

Date 1955 Sept 6-7 Tue-Wed Observer K-Mn

Julian Day 243.5357

①63 31 28.9 3493.3

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.
22683	HD 154528	17 00.9	+77 48	I-25	E1039-0	Set .008	23.2	19 : 34	20 : 00
22684	ADS 10535	17 21.0	+37 02	"	"	"	23.2	20 : 10	20 : 52
22685	ADS 11555	18 35.0	+7 16	"	"	"	23.2	21 : 04	22 : 24
22686	V548 <i>lyg</i>	19 54.6	+54 32	"	"	.016	23.1	22 : 32	0 : 12
22687	ADS 1A	23 ^h 57.5	+65° 32	"	"	.008	22.9	1 : 20	1 : 36
22688	ADS 1B	23 ^h 57.5	+65° 32	"	"	"	22.8	1 : 37	2 : 49
22689	MWC 394	22 ^h 52.7	+48° 09	"	"	"		2 : 56	2 : 59.2
	"	"	"	"	"	"		3 : 00	3.06.4
	"	"	"	"	"	"	22.7	3 : 07	3 : 17
22690	MWC 49	2 ^h 24.4	+70° 30	"	"	"	22.8 22.5	3 : 25	5 : 07
	HD 15472			"	"	"			
	Focus Test	O.T.B.		"	"	"	22.5		

Date Temp. +72° F

Eols. 15:757

Date Temp. +52° F

Transparency Conditions

Slight haze with cloud 142
in N + W.Excellent after 22:30 but very
strong wind from NW.

Wind died about 1h.

Ending EOL	Angle ind	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
20:00	45W	+77 43	1	6.7	A0	4-4-4	Set 2 Spec. Bin	fine
20:12	13W	+37 01	1	6.9	G5	4-4-4	Set 2 Vis Bin Broken clouds across shut 20:20 strong wind	good
21:22	30W	+7 19	0	7.31	K0	4-4-4	" 8 " → Some shifting in strong gusts of wind. 20:50	sl. wk
0:23	20W	+54 41	0	9.0	A0	2-2-2	Set 2 Ecl. Bin. Telescope unsteady Seeing changing rapidly Dec. lamp stuck; fixed same. Can't reach visitors' office for HD 154522 (00:40)	good
1:30	00W	+65° 50	0	5.86	G0	4-4-4	Set 2 Vis. Bin.	weak
2:14	133W	+65° 50	0 → 1	7.34	A2	4-4-4	Set 8. Check this carefully. I fear part of it may be ADS 1A.	good
2:50			0	5.2	B3ne		Set 1 Hd Be	
3:00			0		"	6-6	Set 5 "	fine
3:07	306W	+48° 26	0		"	4-4-4	Set 9 "	
5:07	123W	+70° 46	0	8.0	Bune	4-4-4	Set 5 Hd Be	fine
						15/10	Set 10	O.K.
2 P.H. + 0 in refrig.								
							MC SC M1W STW S SW ME	
Sept. 7							-26.8 ^s (+5.3 ^s) -8.1 ^s -.6 ^m +4.1 ^s +15.8 ^s +5.3 ^s	

143

Date Wed. Sept 7-8, 1955 Observer L. Hy Julian Day 2435.358
 @ 164 29 42.2 3495.5

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.
22691	A.D.S. 11773	18 47.8	14 25	T-25	E-103A ₆	Set 008	16.9	19 50	21 30
22692	" 12882	19 41.0	04 00	"	"	"	16.7	21 34	23 08
22693	" 15771	22 10.1	22 02	"	"	"	16.7	23 13	00 51
22694	" 16140	22 34.7	56 16	"	"	"	16.6	00 56	01 34
22695	" 16913	23 35.1	37 06	"	"	"	16.5	01 39	02 45
22696	" 546	02 33.6	48 43	"	"	"	16.6	02 50	03 38
22697	" 2701	03 36.2	32 37	"	"	"	16.6	03 44	05 10
	from 7-8	07B		"	"	"	16.6		

145

Date Thu Sep 8-9 1955 Observer K-Mn Julian Day 2435.359
0165 27 57.7 3497.5

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp. 17.3	Starting Time E.S.T.	Ending Time E.S.T.
22698	HD 154528	17 00.9	+77 48	J-25	FK89-0	5.7 .068	17.3	19 58	20 : 30
22699	ADS 10133	17 29.8	+13 14	"	"	"	17.6	20 43	22 : 07
22700	ADS 12900	19 42.1	+34 46	"	"	"	17.2 16.6	22 12	23 : 12
22701	ADS 14527	20 58.5	+59 07	"	"	"	16.5	23 16	0 : 16
22702	HD 154528	17 ^h 00.9	+77° 48'	"	"	"	16.3	0 ^h 28	0 ^h 44
22703	ADS 16328	22 47.5	+42 46	"	"	"	16.2	0 ^h 53	1 : 13
22704	ADS 1A	23 51.5	+65 32	"	"	"	16.4	1 : 21	1 : 37
22705	ADS 1B	"	"	"	"	"	16.3	1 : 38	2 : 46
22706	ADS 990	1 07.5	+29 32	"	"	"	16.4	2 : 52	3 : 52
22707	ADS 1632E	1 57.8	+41 51	"	"	"	16.2	3 : 56	4 : 04
22708	ADS 1632A	"	"	"	"	"	"	4 : 05 ^{1/2}	4 : 06
		"	"	"	"	"	"	4 : 07	4 : 08
		"	"	"	"	"	16.3	4 : 09	4 : 11
22709	ADS 1753	2 11.0	+57 03	"	"	"	16.6	4 : 18	5 : 04
	FOCUS TEST	"	"	"	"	"	16.6		

One Temp. $+68^{\circ}F$

Rus. $15^{\circ}6.71$

One Temp. $+50^{\circ}F$

had trouble with the spec. bin.
found loose connections at
small bulb switch on the
bridge circuit.

Transparency Conditions

Good. - Cleared shortly
after sunset. 146

Ending Time E.S.T.	Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
20	29W	+77 42	0	6.7	A0	4-4-4	Set 2 Spec Bin. <i>telescope out of balance</i> <i>hung chair on spectrophot.</i>	fine
22	27W	+13 11	0	7.10	G5	4-4-4	Set 2 Vis Bin. <i>left RA + Dec</i>	sl. weak
22	20W	+34 56	1	7.09	K0	4-4-4	" 8 " " <i>buttons not</i> <i>working properly</i>	fine
207	W	+39 20	2	7.12	K2	4-4-4	Set 2 " "	sl. weak
0	6:7 W	+77 45	1	6.7	A0	6-6	Set 8 Sp. Bin.	fine
3	15 W	+43 02	2	6.24	K5	4-4-4	Set 8 Vis. Bin.	good
3	28 W	+65 51	2	5.86	G0	4-4-4	Set 2 Vis. Bin. <i>guiding little pos</i>	fine
2	138 W		2	7.34	A2	4-4-4	Set 8 " "	strong
3	139 W	+29 49	1 1/2	7.23	K0	4-4-4	Set 2 " "	good
4	55 W	+42 06	1	5.08	A0	4-4-4	Set 8 " "	strong
			1	3.03	K0		Set 1 " "	
			1	"	"	12	Set 5 " "	good
	102 W		1	"	"	6-6	Set 9 " "	fine
5	142 W	+57 19	1/2	6.85	K0	4-4-4	Set 2 " "	fine
						15/10	Set 8	O.K.
							3 P.H. + 0 in rebo	

147

Date Ex. Sat. Sept. 9-10. 1955 Observer Mn Julian Day 2435360

① 166 26 15.2 3499.6

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.
22710	ADS 919	1 ^h 01.2	+52° 58	I 29	E103a-0	.008	16.9°	0:20	2:00
22711	ADS 1934A	1 ^h 50.2	+38 46	"	"	"	17.2°	2:06	3:12
22712	ADS 1934 B	"	"	"	"	"	17.5°	3:15	5:05
	Focus Test	C.T.E.					18.0°		

Eme Temp. 58°F

Fus. 15.652

Eme Temp.

Transparency Conditions Good, for a while only 150
 much closer

microed later

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.		REMARKS	Quality
05	50	77 45	0	6.7	A0	4-4-4	2	N Bin	good
06	27 W	62 21	0-1	7.55	K0	4-4-4	2	Vis Bin	good
07	44	66 24	0	6.73	F2	4-4-4	8	"	fine
08	14 W	73 07	0	6.72	G5	4-4-4	2	"	good
09	17 W	77 46	0	6.7	A0	4-8	8	Np Bin	poor guiding too weak
10	21 W	+01 09	0	6.26	F0	4-4-4	8	Vis Bin.	fine
11	18 W	07 30	0	7.99	K0	4-4-4	2	" "	sl. weak
						15/10	8		O.K.

1 P.H. to fig

No H.

	MC	SC	MTW	STW	S	SW	ME
Sept. 12	+8.3	+0.1	+1.9	+6 ^m	-11.1	-8.7	+3.2

Dme Temp. +55°F

Fus. 15.640

Dme Temp.

Transparency Conditions *cloudy*

152

clouds at sunset then breaking.

Ending Time E.S.T.	Star Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
		56 34	0	6.93	F0	4-	<i>Set E Vis Bin. about 15 mins of sky then star gone. Closed at 23.00 2 P.H. loaded +6</i>	

153

Date Tues. Wed. Sept. 12-14 1965 Observer M.V. Julian Day 2435364
 0170 19 46.3 3507-9

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.
22720	ADS 94	0 ^h 03.2	+22° 32'	I-20	F 1020-0	.002		1:53:25	1:54:00
	"	"	"	"	"	"		1:55:20	1:55:40
	"	"	"	"	"	"	13.8°	1:57:30	1:58:40
							13.8°		
22721	ADS 915	1 ^h 01.2	+52° 52'	"	"	"	13.9°	2:07	4:39
22722	ADS 1073	1 ^h 13.2	+57° 42'	"	"	"	14.0°	4:43	4:55
	Focus test	A.T.E.	"	"	"	"	14.0°		

Dne Temp... 54° F.

Hum... 15.624

Dne Temp... 53° F.

Transparency Conditions... Clearing... 11.00

Clouded 3:00 - closed shutters

Cleared 4:00 - opened shutters

154

Ending Time E.S.T.	Star Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
			1	2.42	Aop	-	Set 1 (Normal) Vis. Bin.	
			1	"	"	12	Set 5 (1/2) " "	good
		+28° 51	1	"	"	6-6	9 (2x) " "	
	" 47 W	+53° 16	1	7.14	Ko	4-4-4	Set 2 Vis. Bin. Hazed over 2:30 2nd comp. 2:40 Clouded in 3:00 - 4:05	Control
	" 50 W	+58° 02	1-2	5.35	Fo	4-4-4	Set 7 Vis. Bin.	good
						15/10	Set 11	
							4 P.H. +2 in rearing.	
							MC SC MTW STW S SW ME	
							Sept. 14 +7.5 -1.5 -3.8 -6 ^m -18.6 +6.3 +1.3	

155

Date Thurs Sept 15-16/55 Observer L-Hr Julian Day 2435366

① 172 16 44.0 3511.8

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.
22723	ADS. 15602	22 00.2	32 28 ⁷	I-25	E-103A	Set .008	21.0	22 30	00 00	1
22724	" 42	23 59.8	26 06	"	"	"	26.0	00 07	02 07	
22725	" 990	01 07.5	27 32	"	"	"	26.2	02 13	04 13	
22726	" 1904	02 24.8	24 48	"	"	"	26.0	04 17	05 01	
<i>From plate O.P.B.</i>										

Home Temp. $+61^{\circ}\text{F}$

Focus 15.725

Home Temp.

Transparency Conditions *Hazy*

156

Hazy, clouds, delayed start.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
12W	32 44	0	6.90	G5	4-4-4	Set 2 Vis Bin	weak
24W	26 24	0	7.32	K2	4-4-4	" 8 " "	weak
23W	29 52	00	7.23	K0	4-4-4	" 2 " "	good
53W	25 03	00	6.34	F5	4-4-4	" 8 " "	fine
					15/10	" 5	O.K.
<p>2 P.H. +2 No H.A.T.</p>							
<p>MC SC MTW STW S SW ME</p>							
<p>Sept. 16 $+8^{\text{S}}_0$ -2^{S}_5 $+1^{\text{S}}_1$ $+6^{\text{m}}$ -27^{S}_9 $+22^{\text{S}}_4$ $+1^{\text{S}}_2$</p>							

One Temp. 62°

Fus. 15.6%

One Temp. 67°

Transparency Conditions

large 1st time; dry plate

158

Ending Time E.S.T.	Star Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	aperture	REMARKS	Quality
02:00	41 21	00 45'	0	6.7	AD	4-8	set 2	See bin	sl. wk.
	56 34			6.9	FO	4	set 2	See bin	clouded out
	47 24		0	6.7	AD	4-7	set 2	See bin	poor guiding good
	52 12		1	7.08	B5	4-4-4	set 3	See bin	clouded-out exposure on ADS 11213 on this plate also fine
	54 12		0	9.0	A8	4-4-4	5	See bin	sl. wk.
	57 12		1	7.14	B5	4-4-4	5	See bin	sl. wk.
	57 41		0	5.00	B5		1	"	good
						4-4-4	5		good
03:00							9		fine
						15/10	9		O.K.
								794 + 500 = 1294	

Air Temp. 74 F

Obs. 15:305

Air Temp. 69 F

Transparency Conditions Good

160

200 Vectors showed MIS, Ring Det. with 74"

Ending Angle E.M.	Angle nd	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
03	W 59	+3 17	2	7.83	Ko	4-4-4 Set 2	Vis Rain	weak ✓
00	135 W	14 27	3	7.35	Ko	4-4-4 " 8	Temp rising - perhaps set wrongly, turned off heat.	good ✓
00	108 W	10 52	2-3	6.80	Ko	4-4-4 Set 2	" " poor guiding	good ✓
01	030 W	36 36	2-3	7.34	Ko	4-4-4 " 8	" "	sl. weak ✓
07	112 W	64 36	2	6.00	K5	4-4-4 Set 2	" "	weak ✓
05	120 W	40 02	3	7.96	G5	4-4-4 " 8	" "	good ✓

4 M.H. = 4.00

161

Date See Plan 1958 Sep. 17-19 Observer P.R. - 12 Julian Day 2435369

① 175 12 24.9 3517.2

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.
22739	HD 154528	17 ^h 00.9	+77° 48'	I-25	103c0	set .008	+28.0°	19:40	20:14
22740	ADS 11213	18 ^h 12.9	+52° 03'	"	"	"	+27.9°	20:21	21:23
22741	ADS 14322	20 ^h 04.9	+52 03	"	"	"	+28.0	21:34	22:34
22742	ADS 1499F	21 ^h 24.6	+59 19	"	"	"	+27.9	22:42	23:42
22743	HD 154528	17 ^h 00.9	+77 48	"	"	"	"	23:52	00:12
22744	ADS 1550	02 04.5	+00 08	"	"	"	"	00:28	00:50

Do.e Temp. 72°F
 Pres. 15.535

Victor 508
 Channel, Honolulu

Transparency Conditions fair, low haze

162

Do.e Temp. 72°F

57-2

Ending Time LST	Angle and	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
20	247 W	+77° 43'	1	6.7	AO	4-4-4	set 2 spec bin. 20. E	very poor guiding, weak
21	247 W	+86° 34'	1	6.5	F	4-4-4	set 2 spec bin. "	good
22	118 W	+82° 15'	1	6.88	GS	4-4-4	set 8 " " " "	good
23	-	+59° 35'	2+	7.42	MC	4-4-4	set 2 " " " "	weak
24	64 W	+77° 44'	2	6.7	AO	4-4-4	set 8 spec bin. " W	poor guiding, good
25	157 W	+82° 26'	4	6.58	MB	4-4-4	set 4 spec bin. " "	weak

MC	SC	MTW	STW	SW	ME
Sept. 19	+7.5 ^s	-3.3 ^s	+7.2 ^s	+6.6 ^m	-4.4 ^s

Air Temp. +61°F

Transparency Conditions *atmo. clear + fast moving cld.* 164

Dis. 15.724

Air Temp. 46°

531

520.7

Ending Time E.S.T.	Angle ind	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality	
	52 W	+3° 22'	-1	5.24	G5	4-4-4	set 2 Vis Bin	Exp. uncertain on account of cld.	good
	01 W	+19 44	-1	6.52	K0	4-4-0	set 8	cld. blown over	sl. strong
	34 W	+16 21	0	6.42	K0	4-4-4	set 2	" "	good
	36 W	+34 56	0	7.09	K0	4-4-4	set 8	" "	fine
	20 U	+32 43	0	6.90	G5	4-4-4	set 2	" "	good
	05 W	+46 08	0	6.59	K5	4-4-4	set 8	" "	fine
	31 W	26 26	00	7.32	K2	4-4-4	" 2	" "	good
	53 W*	+77 45 Below Pole	00	6.7	A0	4-4-4	" 2 Spect. Bin.	Spectrograph convenient for work. Cannot reach further	fine
	02 W	37 05	00	6.53	K0	4-4-4	" 2 Vis. Bin		good
						15/10	" 8 * Telescope Reversed		O.K.

2 P.H. +10

H. on M.

MC SC MTW STW SW ME
Sept. 21 +14.7 -3.8 +11.1 +.8^m +11.3 +2.4

Date Thurs. Ev. Sep 22-23, 1955 Observer O. H. Julian Day 2435373.

① 179 07 04.0 3524.1

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.
22754	ADS 10633	17 29.8	+13 14	5 25	E79300	008	+15.2	19 25	20 15
22755	ADS 11271	18 15.8 ^B	+3 20	"	"	"	+17.0	20 19	20 29
22756	ADS 11213	18 12.9	+56 33	"	"	"	+16.7	20 37	21 21
22757	ADS 11225	18 50.3	+31 45	"	"	"	+16.7	21 25	21 35
22758	ADS 12445	19 22.1	+19 42	"	"	"	+16.9	21 40	22 25
22759	ADS 13515	20 08.5	+38 09	"	"	"	+16.9	22 32	23 42
22760	Y546 Cygni	19 54.6	+54 32	"	"	"	+16.9	23 47	0 57
22761	ADS 406	00 27.2	36 17	"	"	008	17.3	01 09	02 27
22762	" 1053	01 13.2	39 26	"	"	"	17.0	02 33	03 13
From Inst. O.H.B.									

Wae Temp. $+55^{\circ}$ F

Transparency Conditions *Clouds in SW at sunset and later.*

166

Gas 15.645. Changed to 15.666 at 20^h 30^m

Wae Temp. 4° F

3524

Ending Time E.S.T.	Angle and	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
20:27	27W	+13 13	0	7.10	G5	4-4-4	Set 2. Vis Bin	fine
20:38	57W	+3 19	0+	5.24	G5	4-4-4	" 8 " "	good
21:02	34W	+36 33	0+	6.93	F0	4-4-4	" 2 " "	fine
21:12		+36 52	1	5.68	M6	4-4-4	" 8 " "	fine
21:57	51W	+17 48	1	7.30	K5	4-4-4	" 2 " "	good
22:04	17W	+38 18	1	7.74	G5	4-4-4	" 8 " "	fine
22:57	48W	+54 42	1	9.0	A0	2-2-2	" 2 Ecl. Bin.	fine
23:04	14W	36 35	0	7.34	K0	4-4-4	" 2 Vis Bin.	fine
23:11	10W	39 45	0	8.04	G5	4-4-4	" 8 " <u>0-50</u> Thin Cloud.	fine
						15/10	" 5	OK.

	MC	SC	MTW	STW	S	SW	ME
Sept. 23	+7.6 ^s	-4.5 ^s	+15.1 ^s	+9 ^m	+31.4 ^s	+30.4 ^s	+5.3 ^s

Air Temp. 75.5°

Winds 15.656

Air Temp.

About 60 vortices down
M13 and 3 Cys.

Transparency Conditions good
22h - clouds coming in from West

35215

Ending Time E.S.T.	Angle and	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
22 11 30	01W	+2 49	0	7.52	K5	4-4-4	Sat 2 Via Bin	Found planet at .065 weak
22 11 35	05W	+12 56	1	6.00	F2	4-4-4	" 8 " "	fine
22 11 40	07W	+19 31	0	7.26	K0	4-4-4	" 2 " "	fine
22 11 45	09W	57 03	0	7.94	K2	4-4-4	" 8 " "	weak
22 11 50	15W	34 41	0	7.08	F0	4-4-4	" 2 " "	fine
						15/10	" 8	OK
							2 PH + 2	
							H on M.	

169

Date Sun. Sept 25-26/55 Observer L-H Julian Day 2435376

0 182 03 21.5 3529.3

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.
22768	A.D.S. 12661	19 31.3	05 48	I-25	E-103A ₀	set 008	14.8	19 15	21 05
22769	" 14345	20 46.5	49 45	"	"	"	14.8	21 10	23 10
22770	" 16810	23 26.5	51 52	"	"	"	14.8	23 14	01 16
22771	" 17038	23 45.6	53 39	"	"	"	15.0	01 22	02 52
22772	" 18135	01 43.4	407 11	"	"	"	14.8	03 00	05 10
	<i>Trans. Sat</i>				<i>07.13</i>				

Date Temp. $+55^{\circ}\text{F}$

Date 15.6.32

Time Temp.

Transparency Conditions Good

170

3520

Ending Time L.S.T.	Angle ind	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality												
21	70W	05 56	0	7.61	Ko	4-4-4	Set 2 Vis Bin seeing vile!	good												
22	820W	49 53	0	7.77	Mo	4-4-4	" 8 " "	weak												
01	146W	52 11	0-1	7.86	F5	4-4-4	" 2 " "	water												
02	303W	53 57	0-1	7.50	F5	4-4-4	" 8 " "	water												
01	227W +07	28	0	7.99	Ko	4-4-4	" 2 " "	weak												
						15/10	" 8													
J.P.H. is D.																				
Photos Needed																				
H-on-M.																				
<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="text-align: center;">MC</td> <td style="text-align: center;">SC</td> <td style="text-align: center;">MTW</td> <td style="text-align: center;">STW</td> <td style="text-align: center;">SW</td> <td style="text-align: center;">ME</td> </tr> <tr> <td style="text-align: center;">Sept. 26 $+8.0^S$</td> <td style="text-align: center;">-4.1^S</td> <td style="text-align: center;">123.8^S</td> <td style="text-align: center;">$+9^m$</td> <td style="text-align: center;">-3.6^S</td> <td style="text-align: center;">-6.9^S</td> </tr> </table>									MC	SC	MTW	STW	SW	ME	Sept. 26 $+8.0^S$	-4.1^S	123.8^S	$+9^m$	-3.6^S	-6.9^S
MC	SC	MTW	STW	SW	ME															
Sept. 26 $+8.0^S$	-4.1^S	123.8^S	$+9^m$	-3.6^S	-6.9^S															

Air Temp. +50°F

Transparency Conditions Clearing at 1000
Midnight.

172

Time 15:620 Reset at 0411 to 15:632

Air Temp. 48

353

Ending Time E.S.T.	Angle Elev	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0	33W	32 49	0	7.21	F8	4-4-4	Set 2 Vis. Bin.	fine
0	35W	41 35	0	7.2	Bsne	4-4-4	" 2 Hd. Be.	fine
						15/10	" 8 0450 Cloud from W	OK
							1 P.H. + 10 in Dome.	
							H.M.	
							MC SC MTW STW SW ME	
							Sept. 28 +8.0 -6.1 -29.9 -.2 ^m +11.0 -3.5	

Air Temp. +61°F

Transparency Conditions Clear

174

Obs. 15.673 Temp 15.689 at 22' 23"

Air Temp.

54.7 358

Ending Time L.S.T.	Angle and	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
19 20	16 W	+4 56	1-2	7.64	K2	4-4	Set 2 Vis Bin	fine
19 30	12 W	+36 52	1	5.68	M6	4-4-4	" "	fine
19 40	42 W	+2 51	1-2	7.52	K5	4-4-W	" "	fine
19 50	20 W	+32 22	1	7.83	K0	4-4-4	" " Reset Thermostat	fine
20 00	24 E	-9 19	1	5.1	K0	6-6	" 2 OLS	fine
20 10	55 E	-5 56	1	5.73	K1 III	4-4-4	" 8	fine
20 20	20 W	+19 39	1	4.99	K0	6-6	" 2 Vis Bin	fine
20 30	21 W	+39 30	1	5.35	K2	6-6	" 8 " " Head Control appears to stick	fine
20 40			1	3.56	G0	-	" 1 " " "	fine
20 50				"	"	12	" 5	
21 00	03 W	+30 01		"	"	-	" 9 " " " were in synch graph done.	
21 10	47 W	+57 01	0	7.74	K2	4-4-4	" 2 Vis Bin	fine
21 20	0 W	77 45	0	6.7	A0	4-4-4	" 2 Spot Bin telescope focused	fine
21 30	29 W	34 40	0-1	7.04	F0	4-4-4	" 2 Vis Bin	noting
21 40						15/10	" 8 J.P.H. +2 H.M.	OK

3 P4 + 1 + 4000x

175

Date Fri/Sat, 1955 Sept 30/01 Observer Lhr - NK Julian Day 2435391
 186 57 46.0 3538.5

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.
22787	ADS 14909	21 ^h 17.5	+19° 23'	I-25	1036-0	.008	+20.0	20 ^h 50	20 ^h 58 ^m
4	"	"	"	"	"	"	+20.6	21 ^h 1	21 ^h 17
1	"	"	"	"	"	"	+21.0	21 20	21 34
22788	ADS 15366	21 46.8	+66° 19'	"	"	"	+21.0	22 4	22 50
22789	ADS 16140	22 34.7	+58° 16'	"	"	"	+21.0	23 0	23 35
00790	ADS 16011	22 32.7	+59° 45'	"	"	"	+21.0	23 52	23 53
								23 55	23 55
								23 56	00 00
22791	ADS 16517	22 39.6	+41° 17'	"	"	"	+21.2	00 15	00 25
22792	ADS 16525	22 47.5	+42° 46'	"	"	"	+21.0	00 40	01 00
22793	ADS 94	00 22.0	-58° 22'	"	"	"		01 08	01 20
								01 09	01 20
								01 11	01 25
22794	ADS 538	20 58.5	+71° 24'	"	"	"		21 24	21 38
	Faded image	21.5 10							

Temp. 57°F

OCs 15.636

Temp.

Transparency Conditions Excellent

178

250 vis lens, showed 3 Cyg in 74"
MR₅L + 4 RHSC tele. spec.

Ending Time EST.	Angle ad	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
22	9 W	+38° 36'	1	6.47	Ma	4-4-4	Set 2 Vis Bin	fine
23	13 W	"	2	6.66	G5	4-4-4	Set 5 " "	fine
24	21 W	+49 59	3	5.87	K0	4-4-4	Set 2 " "	fine
25	25 W	39 31	5	5.85	K2	4-4-4	Set 8 " " ← woke you head control	fine
				7.59	K0	4-	Set 2 " " about 10 min of clear sky then haze and clouds	
							3 RH ₅ loaded + 4 H on H	

Air Temp. +53°F

W. 15.652 Changed to 15.672 at 19^h 18^m

Air Temp.

Transparency Conditions

Some clouds with beginning clearing

180

Ending Time EST.	Angle Ind	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0 02	10 W	+4 57	1	7.64	K2	4-4-4	Set 2 Vis Bin Temp entirely streak. Start faint at .003	fine
0 10	50 N	+0 19	1	7.16	K2	4-4-4	" 4	fine
0 12	03 W	+47 53	1	5.87	K0	6-6	" 4	fine
0 22	10 W	-47 57	1-2	7.77	Mb	4-4-4	" 4	fine
0 25	07 W	+59 33	1-2	7.42	Ma	4-4-4	" 4	fine
0 32	39 W	37 24	0-1-2	6.86	F ₂	4-4-4	" 4	strong
0 40	31 W	+07 27	0	7.17	K ₁	4-4-4	" 2 Guiding Post	good
0 47	53 W	-05 40	0	7.0	K ₀	4-4-4	" 2 O.L.S.	fine
						15/10	2 P.H. Photos started	OK
							from M.	
							MC SC MTW STW SW ME	
							Oct. 3 +7.1 ^S -7.4 ^S -15.9 ^S -0.01 ^m -30.9 ^S +7.6 ^S	

ie Temp. 60 F

ES. 18.682

ie Temp.

Transparency Conditions

rather poor

182

clearing up immediately after 2100

85

3547.2

Ending Time E.S.T.	Angle and	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality																								
22:55		+ 46 06	1	5.	B32c	6-	nt 1																									
23:50						6-6	" 5																									
23:50	2-59					6-6	" 9 clouds,	<i>fine</i>																								
							<table border="0"> <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>Oct 5</td> <td>+6.9^s</td> <td>-8.2^s</td> <td>-7.3^s</td> <td>-1m</td> <td>-4.9^s</td> <td>-14.4^s</td> <td>+11.9^s</td> </tr> <tr> <td>6</td> <td>+7.0^s</td> <td>-8.4^s</td> <td>-6.9^s</td> <td>+1m</td> <td>-6.1^s</td> <td>-5.1^s</td> <td>+8.8^s</td> </tr> </table>		MC	SC	MTW	STW	S	SW	ME	Oct 5	+6.9 ^s	-8.2 ^s	-7.3 ^s	-1m	-4.9 ^s	-14.4 ^s	+11.9 ^s	6	+7.0 ^s	-8.4 ^s	-6.9 ^s	+1m	-6.1 ^s	-5.1 ^s	+8.8 ^s	
	MC	SC	MTW	STW	S	SW	ME																									
Oct 5	+6.9 ^s	-8.2 ^s	-7.3 ^s	-1m	-4.9 ^s	-14.4 ^s	+11.9 ^s																									
6	+7.0 ^s	-8.4 ^s	-6.9 ^s	+1m	-6.1 ^s	-5.1 ^s	+8.8 ^s																									

Date 9-5-50 Observer PK Julian Day 2435389

☉ 194 50 35.3 3556.6

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.
20808	ADS 15390	21 392	+0 25	I-25	KODAK	102	142	22 30	20 21
22 31								22 22	
22 34								22 23	
20809	ADS 15392	21 390	+0 25	"	"	"	142	22 47	22 37
20810	ADS 15350	23 045	+2 02	"	"	"	"	23 15	23 45
20811	ADS 15355	23 045	+2 02	"	"	"	142	00 16	00 31
20812	ADS 15356	23 026	+2 02	"	"	"	"	00 42	01 07
20813	ADS 15390	21 392	+0 25	"	"	"	142	01 43	02 07
20814	ADS 15390	"	"	"	"	"	142	02 04	02 44
20815	ADS 15390	21 392	+0 25	"	"	"	142	02 51	02 58
20816	ADS 15390	21 392	+0 25	"	"	"	"	03 40	03 50
20817	ADS 15390	21 392	+0 25	"	"	"	"	05 15	05 40
	Focus Test	C.T. 11							

Temp. 51°

Transparency Conditions *very good*

184

1

89.

Temp. 51.4

3556.6

Ending Time E.S.T.	Angle nd	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
				377	K0		part 1 the base	
						12		fine
7:00		+2 40	0					
8:10		+12 56	0	600	F2	4-4-1		strong
9:00		+4 37	0	628	H6	4-4-1	Time left with group	fine
10:10		+15 71	0	586	B0	4-4-4		fine
11:00		+29 12	1-1	653	K2	4-4-4		fine
12:00		+28 30	1	656	K5	4-4-4		fine
1:00		"	1	687	K2	4-4-4		good
2:00		+27 19	1	625	K0	4-4-4		strong
3:00		+21 24	1	752	B5	4-4-4		strong
4:00		+22 44	0	67	K0	4-4-		fine
						15/10		OK

185

Date Sun. Oct. 9-10, 1955 Observer L. H. v. Julian Day 243539.0

© 195 49 51.9 3558.8

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.
22818	AD.S. 14108	20 34.3	00 08	I-25	E103A	set 008	16.9	19 02	19 38
22819	" 14133	20 35.3	03 05	"	"	"	16.9	19 42	22 30
22820	" 16550	23 04.5	08 05	"	"	"	16.8	22 34	23 08
22821	" 1435	01 43.4	07 11	"	"	"	16.8	23 13	23 13
22822	" 15311	01 30.4	20 46	"	"	"	16.8	23 56	04 36
22823	" " "	"	"	"	"	"	"	24 09	05 21

Temp. 58°F

Transparency Conditions *Good*

186

15.658

Temp. 58°F

35589

Ending Time E.S.T.	Angle ad	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
	06E	+00 20	0	6.14	Ko	4-4-4	Set 2. Vis. Bin. seeing Vile	fair
	15W	+03 16	0	7.86	Ko	4-4-4	" 8 " "	good
	15W	+08 26	0-1	6.28	Mb	4-4-4	" 2 " "	fair
	22W	+07 28	0	7.79	Ko	4-4-4	" 8 " " <i>telescope</i>	good
	27W	37 02	0	6.56	Ko	4-4-4	" 2	fair
	33W	"	0	6.37	Ko	4-4-4	" 7 <i>Galaxy Pipe</i>	weak
						15/10	" 5	<i>stared slightly</i>

187

10-11 (4d)

Date ~~Nov. 1953~~ / Oct 11 (13) 1953 - Observer ~~W. H. R.~~ - H. R. Julian Day 2435391

© 196 49 10.7 3561.2

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.
22824	ADS 11243	18 49.2	-14 02.5	I-25	103a-0	.00E	+20.0	15 02 ⁴⁰	20 52
22825	ADS 13240	19 26.5	+26 05.8	"	"	"	+20.1	20 58	22 58
22826	ADF 1233	1 28.6	+62 24	"	"	"	+20.2	02 14	00 44
22827	" 1459	01 44.0	16 42.2	"	"	"	20.4	00 50	03 11
22828	H.D. 50281	06 47.4	-05 03	"	"	"	20.4	03 24	05 26
	7-11-53	07 15							

Temp. 67° F

15.710

Transparency Conditions

Very good at beginning }
late like above

188

Temp. ...

5612

Ending Through I.S.T.	Angle ad	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
25	9° W	+14° 22'	7.0, -1	7.72	K0	4-4-4	at 2 4.5. (in.)	fine
23	7° W	+36° 14'	0. -1	7.21	K0	4-4-4	4.8 " "	fine
20	12° W	+62° 51'	0	7.59	K0	4-4-4	" 2 " "	strong
18	7° W	04 38	0	8.09	K5	4-4-4	" 8 " "	weak
15	5° E	-05 07	00	7.5	K7	4-4-4	" 2 O.H.S.	fine
						15/10	" 8	OK
							steady slightly	OK
							1 FH +12	
							11-4-4	

189

Date Tues Oct 11-12, 1955 Observer Hd - L Julian Day 2435392

© 191 48 31.9 3563.4

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.
{ 22829	{ MWC 292	18 17.3	25 01	I-25	E10300	008	22.0	18 50	19 40
{ 22830	{ MWC 350	20 34.0	-2 46	"	"	"	22.0	19 44	20 09
22831	H0194335 MWC 343	20 20.0	37 10	"	"	"		20 12	20 24
							22.0	20 24	20 32
								20 32	20 36
22832	HDS H015268	21 39.3	+9 25	"	"	"		20 45	20 46
								20 47	20 49
							21.8	20 50	20 54
{ 22833	HDS H012992	19 45.9	38 28	"	"	"	21.7	21 05	21 49
{ 22834	HDS 546	0 33.6	48 48	"	"	"	21.8	22 11	22 51
22835	HDS 548	0 34.0	30 19	"	"	"	21.5	22 57	23 05
								23 05	23 11
								23 11	23 15
22836	HDS 875	0 58.7	+0 50	"	"	"	21.8	23 22	00 10
22837	" 1660	01 52.0	40 54	"	"	"	21.8	00 16	00 36

Temp. 66 F

Transparency Conditions

190

15.727

12 Vultures (course 2 b) showed Ring Neb. with 70"

392

Temp.

563 +

Reading Time E.S.T.	Angle ad	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
9:12	22	25 05	0	6.9	B5c	4-4-4	Set 2 Be * ^{double} _{half} _{time} 1/2 min diff. between 2nd clock + telescope circles	fine
10:10	39	-2 34	0	6.3	B90	4-4-4	" 8 Be	fine
				5.7	B37c	6-6	" 1 Be	
		37 20	0			6-6	" 5	fine
11:16						12	" 9	
			0	3.51	K0	12	" 1 Bk Binocular Prog.	
						12	" 5	fine
1:15m	+9	40				12	" 9	
3:03		38 38	0	6.66	G5	4-4-4	" 2 Bk Binocular Prog.	fine
4:44		49 07	0-1	6.53	K2	4-4-4	" 8 " " "	fine
				4.38	K2	12	" 1 " " "	
						12	" 5 } Two clouds	fine
5m						12	" 9 }	
0 W		+1 07	0-1	6.26	F0	4-11-4	" 2 Bk Bin. Prog. Two clouds till 2335	fine
3 W		41 11	0-1	8.08	G5	4-4-4	" 8 " " " clouds till 2345	fine
							st. remaining white clouds at 3:30	

Dine Temp. $+41^{\circ}$

Fous 15.524

Dine Temp. 7

Transparency Conditions at beginning: *lands disappearing*

in S and W.
transparency good

194

Ending Time E.S.T.	Star Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
20 ^h	37 W	$+40^{\circ} 21'$	0	7.50	G0	4-4-1 ⁹	Set 2 W. Bin.	lucal
	28 E	$+20^{\circ} 05'$	0	5.25	F0	4-4-4	8 " "	fine
		$+30^{\circ} 36'$	0	4.22	K2	6-6	2	fine
	31 E	" "	0			6-6	5	fine
	22 E	" "	0			6-6	8	
		$+27^{\circ} 49'$	0	2.42	40p	12	2 W. Bin.	
		"	0			12	5	fine
	26 E	"	0			12	8	
		$+64^{\circ} 38'$	0	8.00	45	4-4-4	2	lucal
	30 W	$-05^{\circ} 49'$	0	7.00	K2	4-7-4	2 O.H.S. MC SC MTW STW S SW	fine
	32 W	$53^{\circ} 20'$	0	7.00	K2	4-4-4	Oct. 21 $+3.5^s$ -11.9^s -1.6^s -0.01^m -22.4^s $+9.7^s$	fine
						5/10	5	
							2.111 710	
							H = 111	

Air Temp. +42°F

Obs. 15.539

Water Temp.

Transparency Conditions *Some cloudiness haze* 196

5699

Ending Time R.S.T.	Angle ad	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
	SWW	+0 19	10-	6.14	K ₀	4-4	Set 2 Via Bin	Set journal 002 later
				2.75	F ₀ p		1 5/2	later
	SWW	+0 06				12	1 9 2	
							144	

	MC	SC	MTW	STW	S	SW	ME
Oct. 24	+3 ^S .8	-13 ^S .6	+17 ^S .9	+2 ^m	-24 ^S .7	-1 ^S .1	+5 ^S .6
26	+4 ^S .0	-14 ^S .6	+28.9	+5 ^m	-24 ^S .7	+16 ^S .3	-1 ^S .3

3901
 ↓
 60 visitors (Forest Hill HS. & Lindsay
 Arch. Soc.) showed C and M15

Temp. 40°F

15-552

Temp.

Transparency Conditions Cloudy 198

Very difficult to balance bridge.

91.5

Reading E.S.T.	Angle I.d	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
		71 24	0	7.5	13-5	4-4-4	2-2 Vis. Bin.	fine
		-05 07	0	7.5	14	4-4-4	" 2 obs.	fine
						15/10	" 9	OK
							2510 Thin Cloud.	
							18H. 45.	
							H. 14.	
							George - See P.H. #2 in obs box.	
							Shutter was on back of strip.	

Temp. 50F

Transparency Conditions *pretty poor at first 200*

3591 15.595

60 Visitors Tutorial class showed & will 74"

Temp.

35932

Ending Time L.S.T.	Angle hd	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
19 2	2 32	59 58	0	6.9	B42	4-4-4	Set 2 - Be prog.	fine
19 3	1 33	26 21	1	5.9	B32e	4-4-4	" 8 " "	fine
20 0	5 50	77 45	1	6.7	A0	4-4-4	" 2 Sp. bin Telescope reversed	strong
21 0	3 55	38 37	1-2	6.47	Ma	4-4-4	" 2 Bk. bin	fine
23 5	15 ^m	54 20	1	8.6	B32e	2-2-2	" 2 Be Prog Doubly of field - no white	strong
	33E	62 12	0	6.5	B2e	4-4-4	" 8 " "	strong
	32W	41 48	0	7.2	B2e	4-4-4	" 2 " " also Hand lens, Mist, very faint, very faint, also observe the pink stars.	good
						15/10		OK

	MC	SC	MTW	STW	S	SW	ME
Oct. 28	+4.0 ^s	-17.3 ^s	+40.0 ^s	+7.7 ^m	-27.4 ^s	-26.4 ^s	-1.6 ^s
31	+3.8	-21.4 ^s	-3.5 ^s	0 ^m	-29.5 ^s	+0.4 ^s	+2.5 ^s

Set out 29 - 15 visitors, some at the bar - Clouds & rain M = 1

Temp. 41.50

15.400

Temp. 49.01

Transparency Conditions fair, clear, S, Full Moon

Angle E.S.T. Hd	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
7W	+72 08	0	6.46	K1V	4-4-4	Dis. set 2 Jol E	fine
	+77 24	0	3.45	K1V	-	5 " 2 ^m	fine
34W	"	"	"	"	12	" 8 " 4 ^m	
32 E	+67 56	0	5.97	40V	4-4-4	2 "	fine
25W	+61 40	0	8.00	45	4-4-4	Vin Bin 5	slightly cloudy at times weak
17E	32 46	00	6.5	40	4-4-4	Spect. Bin. set. 2	weak
28N	43 12	00	8.8	Gap	7-4-4	Bidelmann's 2	weak
						add. 0.15 down very windy	OK.

	MC	SC	MTW	STW	S	SW	ME
Nov. 30	+20.9 ^s	+11.9 ^s	-3.2 ^s	-1 ^m	-7.8 ^s	+4.7 ^s	-3.4 ^s
Dec. 2	+23.2 ^s	+7.8 ^s	-1.9 ^s	-1 ^m	-8.3 ^s	+23.2 ^s	-4.5 ^s
5		-0.8 ^s	+6.9 ^s	+1 ^m	-10.4 ^s	-8.4 ^s	-2.3 ^s

Transparency Conditions *Fair*

210

Temp... *+17F*

... *15.370*

Temp... *15.41*

Clear at Summit, then cloudy till 21.50

Ending Triangle EST No	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality																								
103W	43 13	0	8.3	Gap	4-4.4	Set 2 Bidelman's * 15/10 " 8 +1230 Shatters closed if snow. Continues light snow all night slightly more than usual 2 P.H + 2 h-m.	<i>Fair</i> <i>OK</i>																								
						<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>Dec. 16</td> <td>+12.8</td> <td>-29.4</td> <td>+37.8</td> <td>+1.5^m</td> <td>-13.0</td> <td>-3.2</td> <td>-4.3</td> </tr> <tr> <td>19</td> <td>+19.1</td> <td>-0.1</td> <td>-14.2</td> <td>-3^m</td> <td>-9.7</td> <td>+30.2</td> <td>-0.8</td> </tr> </tbody> </table>		MC	SC	MTW	STW	S	SW	ME	Dec. 16	+12.8	-29.4	+37.8	+1.5 ^m	-13.0	-3.2	-4.3	19	+19.1	-0.1	-14.2	-3 ^m	-9.7	+30.2	-0.8	
	MC	SC	MTW	STW	S	SW	ME																								
Dec. 16	+12.8	-29.4	+37.8	+1.5 ^m	-13.0	-3.2	-4.3																								
19	+19.1	-0.1	-14.2	-3 ^m	-9.7	+30.2	-0.8																								

211

Date Nov-Jun Dec 1951 Observer PK - HV Julian Day 2435461

Dec. 19 266 15 24.4 3665.8
20 267 14 10.2 3666.1

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.
20877	7 And	23 327	+45 55	I-25	E103-a-0	^{old} C18	-5.5	18 13	18 17
								18 17	18 25
22872	H.D. 50083 MWC 156	06 465	+05 13	"	"	"	-5.0	01 25	02 55
22873	H.D. 50079 MWC 188	07 519	+03 14	"	"	"	-5.2	03 02	05 00
	<i>Fans</i>	<i>Fans</i>	<i>078</i>						

Transparency Conditions

Temp.....

15.277

Temp.....

0200 Temp { inside -1F
outside -8°F

Ending Triangle EST Ed	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality																					
		0!	4.95	GS-III	set 1	clear!																						
2234J	+46 14	r			4-8	5 snow! cloud																						
40W	+05 09	0-4	6.8	B2e	4-4-4	112 Hd B2 Bin.																						
10W	+03 04	000	7.7	B3ne	4-8	118	0415 Guiding Very Poor																					
					15/10	115	0500 Clouds thick gusty Temp -5 + -10																					
2 A H. Plates needed																												
H. H. H.																												
<table border="0"> <tr> <td>MC</td> <td>SC</td> <td>MTW</td> <td>STW</td> <td>S</td> <td>SW</td> <td>ME</td> </tr> <tr> <td>Dec. 21</td> <td>+22.0</td> <td>-3.5</td> <td>-10.0</td> <td>-.1m</td> <td>-8.8</td> <td>-11.0</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>-4.5</td> </tr> </table>								MC	SC	MTW	STW	S	SW	ME	Dec. 21	+22.0	-3.5	-10.0	-.1m	-8.8	-11.0							-4.5
MC	SC	MTW	STW	S	SW	ME																						
Dec. 21	+22.0	-3.5	-10.0	-.1m	-8.8	-11.0																						
						-4.5																						

Temp. 79°F

15 285

Temp.

Transparency Conditions Scattered Clouds + some haze

214

Ending Time EST	Angle hd	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
05	6 E	+43 12	1-2	8.3	Gop	4-4-7 15/10	set 2 Bedelmann Star 20 ^h 40 ^m v thick Cloudy.	good OK
							104 +12	

30073

Temp. +15°F

Transparency Conditions *Not good at all because of clouds. Small clouds in W.*

216

68

Temp. +10°F

It is damn rough slipping in the dome because of ice.

30071

Ending Time E.S.T.	Angle M.d	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
06:40	04	04 04	0	5.47	G3-14-0-4	all 2	CL5. Superb mag.	fine
07:05	07	04 07	0	6.34	G3-14-4-1	8	" Temp. visible	fine
07:40	09	04 09	0	5.33	G5 4-0-4	E	W. base. Fine mag. + 15:39.2 <i>Also had dropped at 15:39.2 Cloud !!</i>	weak
							3PH + 8	

217

© Dec. 27 274 21 56.6 3667.1

Date Tues Dec 27 29/35 Observer Hd-L Julian Day 2435469

© Dec. 28 275 23 03.7 3667.3

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.
{ 22884	BD+ 46° 203	50.4							
	HD 5334	00 50.4	46 36	I-25	E10320	016	-7.5 -5.0	18 04	19 14
{ 22885	HD 5344	00 50.2	46 21	"	"	016	-6.0	19 20	20 10
{ 22886	HD 16604	02 34.4	47 08	"	"	016	-7.0	20 32	21 02
{ 22887	HD 16883	02 35.9	46 32	"	"	016	-7.0	21 07	21 47
{ 22888	HD 154528	17 00.9	77 48	"	E10320	008	-7.0	23 02	23 52
	"	"	"	"	"	"		23 54	00 44
	"	"	"	"	"	"		00 45	01 45

219

Date Sat/Jan 7/8, 1956 Observer Wm - P.K. Julian Day 2435480.

O 286 35 38.4 3669.8

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.
22889	ADS 1459	1 ^h 44.0	+64° 22'	I-25	102a0	.008	-6.8 -6.5	12 34	21 30
22890	HD 30353	4 41.8	+43 06	I-25	102a0	.008	-5.5	22 04	00 22
	Focus test	DTB							
	Locality, could we get a decent mail in the dome?								

Temp. +15°F
 15.360
 Temp. -8°F

Transparency Conditions *very good*

220

Delay of beginning by frozen dome motion and trouble with clamps.

Ending Angle E.S.T. 1	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
21° W	+64° 36'	0-00	8.3	K5	4 ^s 4 ^s -4 ^s	Set 5 vis. line. Strong wind ^{cannot get into diff. parts}	weak
112	+42° 10'	20	8.3	Wp	4-4-4	Set 5 B. Helman's star	good
					15/10	71	OK
						Dome moved by gusty wind	
						Had to close up	
						CHP + ?	
						MC SC MTW STW S SW ME	
						Jan. 13 +12 ^s -2 ^s +20 ^s +.2 ^m -0 ^s .5 -31 ^s 9 -8 ^s .0	

Temp. +20°F

Lat 15.330, reset EST 15.44: 15.400

Temp.

Transparency Conditions Good

222

Temperature control unstable

(Adjustment and contacts checked several times)

Ending Angle EST EST	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
18.4 10.4 W	+47° 34'	variable 00 to 1	5.2	K+B	4-4-4	Set 2 Strong wind makes focusing extremely difficult. At least 20% loss of exposure time. Dome can be turned only during wind intervals & lens blind.	fine
21.2 10.5 W	+16 38"	0	7.9	A0	4-4-4	Set 2 K.A. Puzos	fine
22.5 12.4 W	+17 2	00	7.6	A0	2-2-2	Set 8 K.A. Puzos } 1 star motor fails. primord repaired by blocking re clatd..	fine
01.8 20.0 W	+12 22	00*)	7.5	A3	2-2-2	Set 2 KA "	used
					8/6	*) From EST 11.45 seeing variable, conditions extremely bad	stepped
						Set 8	
						3 PH. + ? Hour M.	
						Too Windy!!	
						Programme is needed from 8-16 ^h	

Temp. +22°F

15.377

Temp. +18°F

Transparency Conditions

Good

224

Ending Angle EST. No.	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
18 10 W	47 34	0	5.2	K+B	4-4-4	Set 2 Strong wind, star off a bit 50% of time	to weak link fine
22 4 W	12 28	1	7.7	A ₂	4-4-4	" 2 K.A. Ring	good
32 1 W	27 23	1	7.8	A ₀	4-4-4	" 8 " "	fine
42 7 W	15 24	1	7.6	G ₀	4-4-4	" 2 " "	strong
52 6 W	15 52	0	2.0	G ₅	4-4-4	8 " " seeing very poor, -5	fine
62 0 W	40.45	0!	4.23	K _{0 III}	4-4-4	2 OLS, Suppi Dec onich motion wires broken	good
72 2 W	6 25	0	4.35	K _{0 III}	4-4-4	8 " "	fine
82 41 W	35	0	4.82	K _{0 V}		1 " "	strong
92 GE		0			6-6	5	
					15/10	9	
There is no anything else should be.							
L.H.							
							OK

225

o Jan. 15 293 43 44.2 3668.0
16 294 44 52.2 3667.4

Date Jan 15/16 1916 Observer Hv - Hv Julian Day 2435488

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.
22903	{ 32 Cyg	20 ^h 12.4	+47° 24'	I-25	103a-0	.008	-2.0	17 ^h 45 ^m	18 ^h 25 ^m
	" "	"	"	"	"	"	-2.3	18 ^h 26 ^m	18 ^h 40 ^m
22904	} HD 23690	23 42.0	+46 30	"	"	.016	-2.1	20 18	21 18
22905	} HD 25933	24 01.3	+42 16	"	"	.016	-2.2	21 35	22 25
22906	{ HD 27350	04 13.9	+14 27	"	"	.016	-2.2	22 30	24 0
22907	{ " 36071	05 24.0	+31 13	"	"	"	-2.3	00 12	01 44
22908	{ λ Hya	10 05.7	-11 52	"	"	"		02 33	02 37
	"						-2.3	02 37	02 41
	{ Faint 9	09.13							

Temp. +28°F
15420

Transparency Conditions *Good but for clouds near U horizon*
226

Temp.

Shaker motor did not work, opened drive by hand.

Ending Triangle E.S.T. #1	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
15 1 ^W	+47° 35'	0 ^{avg. 1}	5.2	K+B	4 ^s -4 ^s 4	Set 2 low exposure time by hand less serious than in	to leak for K
1 5 4	"	0-1	"	"	6 ^s -6 ^s 8	the night before	strong
2 2 2 W	+46° 39'	1-0	8.0	A0	2-2-2 2	Set 2 KA program <i>shaker motor fixed by L</i>	strong
11 5 4 W	+13° 25'	0	7.5	A3	2-2-2 2	Set 2 KA program	fine
2 2 4 W	+14° 35'	0	7.5	A2	2-2-2 2	Set 2 KA program <i>improving, decreasing</i>	weak
01 4 3 W	31 14	0	7.8	A0	2-2-2 8	" 8 " " <u>0113</u> some haze.	fine
		0	4.0	Ko III	6	" 2 OLS - Supp II	fine
					3-3 6		etc.
					8/6 10	2 P.H. + H	etc.
						H. M.	

Frank ... of ...

MC SC MTW STW S SW ME
Jan. 17 +16^s.0 -6^s.4 +37.9 +.5^m +2.7 +4.7 +1.8

227

Jan. 17 295 45 59.6 3666.7
 18 296 47 06.3 3665.9

Date True Jan 12/55 Observer Hd-L Julian Day 2435490

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.
22909	32 Cygni	20 12.4	47 24	325	E2140	008	-7.0	18 03	18 35
22910	HD 5071	00 47.5	60 08	"	"	016	-7.0	18 57	19 55
22911	HD 18337	02 51.7	59 11	"	"	016	-7.0	19 57	20 59
22912	HD 3769	04 31.2	15 38	"	"	016	-7.0	21 57	21 59
22913	HD 5813	05 12.3	10 50	"	"	016	-7.0	22 45	23 05
22914	MWC 124 HD 52731 HD 2130	6 57.2	-11 09	"	"	008	-7.0	23 13	23 45
22915	HD 65975	-1 55.8	-4 36	"	"	008	-7.0	23 52	00 22
22916	MWC 139 HD 44 637	06 17.7	15 09	"	"	"	-7.0	00 35	02 15
22917	h Leo	10 01.9	17 15	"	"	"	-7.0	02 21 ⁰⁰	02 21 ⁴⁰
								02 22 ⁰⁰	02 23 ²⁰
								02 25	02 27 ⁴⁰
22918	40 Leo	10 14.3	19 59	"	"	"	-7.0	02 36 ⁰⁰	02 38 ⁴⁰
								02 43 ⁰⁰	02 48 ²⁰
								02 49 ⁰⁰	03 00 ⁰⁰

next page

3666.7

3665.9

3665.0

Temp. 20 F

Temp. 35.7

Temp. +90 F

Transparency Conditions

228

Ending Angle E.S.T. 51	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality	
550	47 35	0	5.2	K+B	4-4-4	Set 2	Very windy	good
232	60 26	0	7.87	A ₂	2-2-2	" 2	K+A 6.6	fine
131	59 25	0	7.35	A ₀	2-2-2	" 8	"	fine
114	+16 05	0-0	7.62	G ₅	2-2-2	" 2	" " half	weak
108	12 53	0	7.7	A ₀	2-2-2	" 8	" only high than in field	good
4016	-11 15	0	6.6	B _{3e}	4-4-4	" 2	B _{3e} pair	weak
28E	-02 48	0	6.4	B _{2e}	4-4-4	" 8	"	fine
23W	15 08	0	7.7	B _{3e}	4-4-4	" 2	"	weak
			3.58	A ₀ 1b		" 1	MR Standards	
					12	" 5		fine
BE						" 9		
			4.97	F ₆ IV		" 1	" " "	
					12	" 5		fine
2W						" 9		

229

Date Jan 17-18 cont. Observer..... Julian Day 2435490.

② 296 47 06.3 36659

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.
22919	ε Leo	11 08.8	21 04	I-25	E-103A ²⁰	Set 008		03 05 ⁴⁵	03 06 ⁰⁰
								03 07 ⁰⁰	03 07 ³⁰
								03 09 ⁰⁰	03 10 ⁰⁰
22920	θ Leo	11 09.0	15 59	"	"	"		03 18 ⁰⁰	03 18 ³⁰
								03 20 ⁰⁰	03 21 ⁰⁰
								03 22 ⁰⁰	03 24 ⁰⁰
22921	β Leo	11 44.0	15 08	"	"	"	-7.0	03 37 ⁰⁰	03 37 ¹⁰
								03 37 ⁴⁰	03 38 ⁰⁰
								03 39 ²⁰	03 40 ⁰⁰
22922	γ Vir	12 36.6	-00 54	"	"	"		03 57 ⁰⁰	03 57 ²⁰
								03 58 ²⁰	03 59 ⁰⁰
								04 01 ⁰⁰	04 02 ²⁰
	Focus Test					OTB			

Temp.....

Temp.....

Ending Star R.S. #	Angle	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
03 21			0	2.58	A4V		Set 1 MK standards	
03 07						12	" 5	fine
03 10	33E						" 9	
03 11			0	3.4	A2V		" 1 " "	
03 12						12	" 5	fine
03 16	0E						" 9	
03 17			0	2.23	A3V		" 1 " "	
03 18						12	" 5	fine
03 24	3E						" 9	
03 25			0	2.9	F0V		" 1 " "	
03 26						12	" 5	good
04 07E							" 9	
						15/10		cloudy
							3 PH loaded + 4	
							4 on M	
							Too windy to work at +60°	

Temp. +18°F
 15.360
 Temp.

Transparency Conditions *Some cloudiness earlier*

Ending Angle E.S.T. El	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
01-23 E	-5 41	0	82	25ne	4-4-4	alt 2 be mag	fine
01-23 W	-8 22	0	81	25ne	4-4-4	8 "	fine
01-23 W	+37 38	0	74	20ne	4-4-4	2 "	fine
01-23 W	+29 28	0	7.9	G7	4-4-4	" 8 std. Vel.	good
					15/10	" 5	OK

0245 Haze.

0330 Haze & Clouds
~~comet~~

1 P.H. +4
 Hum. 11

	MC	SC	MTW	STW	S	SW	ME
Jan. 20	-5.5	-9.5	-6.5	+2 ^m	+3.5	-27.0	-6.9

60+2
3663 2

Temp. 21°F
15.445
Temp.

Transparency Conditions Good

234

Ending Angle E1 E2	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
13 27 50W	47 34	01	5.2	K+B	4-4-4	Set 2	fin
20 14 04N	63 20	0-1	8.1	B3e	4-4-4	Set 8 Be Prog.	fin
21 00	46 06	0-1	8.6	B3me	4-4	Set 2 Be Prog. first clouds at 21 00 Appear at 21 30	fin
3 PHs loaded + 12							

3662

3660

Temp. +17°F

15.372

Temp.

Transparency Conditions

236

Ending Year angle LST #1	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
15.11.5 W	+29° 03'	1	5.47	G8 III 6-6	set 2	OLS suff 2	low
19.11.5 W	+50 52	1±	6.41	KO II 4-44	" 8	" " DeGFS fine clear; some clouds Set in next star but clouds came over; cloudy till 10PM then snowing from clear sky clouds abt. midnight again.	
						0145 still cloudy	
						2 PM +12'	
						Hum. 11.	
						MC SC MTW STW S SW ME	
						Jan. 24 -13.6 +12.1 +1 ^m +4.5 +5.5 +0.9	

237

Jan 24 302 53 28.2 3660
303 54 28.4 3657

Date Tue Wed, 1956 June 24/25 Observer TRC — Julian Day 2435497

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.
20932	MWC 86 HD 28497	04 245	-13 17	I-25	E103-A-O	SEL 008	-58	18 13	18 25
20933	MWC 93 HD 31293	04 494	+30 24	"	"	"	"	18 32	19 52
20934	MWC 150 HD 52401	05 471	-0 10	"	"	"	-56	20 02	22 40
	Total Time 0 + 0			"	"	"			

28.2 3.
 28.4 Temp. 150°F

Transparency Conditions Good

238

15:37.2

Temp. 114°F

Ending Star R.A. & Dec.	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
5-30-6E	-13 11	0	55	B3ne	4-4-4	net 2 Be prog.	fine
5-30-6E	30 28	0	75	A0am	4-4-4	8 "	fine
5-30-6E	-0 15	0	83	B5ne	4-4-4	2 " cloudy, most at mid-range	fine
					15/10	8	cloudy slightly
						4PH + 2	

239

Date Jan 25/26 /56 Observer -Hr Julian Day 2435498.

① 304 55 27.6 36583

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp. -7.5	Starting Time E.S.T.	Ending Time E.S.T.
22935	γ Vir	12 36.6	-00 54	I-25	E-103a	27. 008		03 43 ¹⁰	03 43 ⁵⁵
								03 46 ⁰⁰	03 47 ³⁰
							-7.7	03 48 ⁰⁵	03 51 ⁰⁵
22936	78 U Ma.	12.56.4	56 54	"	"	"		04 22 ⁰⁰	04 24 ³⁰
								04 25	04 30
							-7.7	04 30	04 40
22937	80 U Ma.	13 21.2	55 3X ⁰	"	"	"		04 50 ⁰⁰	04 51 ³⁰
								04 51 ⁰⁰	04 53 ³⁰
							-7.8	04 55	04 59
22938	α Dra.	14 01.7	64 51	"	"	"		05 21 ⁰⁰	05 21 ⁴⁵
								05 23 ¹⁵	05 24 ⁴⁵
							-7.8	05 26	05 29
22939	γ Boo	14 28.1	38 45	"	"	"		05 48 ⁰⁰	05 48 ⁰⁰
								05 47 ⁰⁰	05 50 ⁰⁰
							-7.9	05 51 ⁰⁰	05 52 ⁰⁰

Temp. +10.5

15.350

Temp.

Transparency Conditions

Clearing after
Midnight

240

Ending from Angle E.S.T. and	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
			2.9	F ₀ V		Set 1. 45°	
		00			12	" 5. 90°	good
13E	-01 14					" 9 120°	
			4.89	F ₂ V		" 1 2.5 ^m	
					6-6	" 5 5 ^m	fine
13E	+5635					" 9 10 ^m	
		00	4.02	A ₅ V		" 1 1 ^m	
					12	" 5 2 ^m	fine
23E	5510					" 9 4 ^m	
			3.64	A ₀ III		" 1 45°	
					12	" 5 90°	fine
33E	64 33	0				" 9 180°	
			3.00	A ₇ III		" 1 20°	
					12	" 5 40°	fine
36E	+3228					" 9 80°	

[OVER]

Temp.

Transparency Conditions

Good

242

Temp. +8°F

Ending Time E.S.T.	Angle d	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
06			00	3.76	A ₀ V		Set. 1 45°	
0614						12	5 90°	fine
061245	+0203						9 130°	
							2 P.H. + H	
							Hem. M.	

Temp. +18°F
15.34G

Transparency Conditions

244

Temp. ...

1499
658
9568

Ending Time E.S.T.	Angle d	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
18 40	58E	40 42	0	6.1	Bane	444	Set 2 Be Prog.	fine
			0	8.0	Ma		Set 2 KA 6x6 clouds coming over while setting on this star More clouds snow 1 P.H. loaded + 2	
							MC SC MTW STW S SW ME	
							Jan. 27 -16.0 +25.7 +3.3 ^s +3.8 -15.0 -3.5 ^s	

245

Date Fri Jan 27-28/56 Observer Hd - H v Julian Day 2435500

☉ 306 57 23.2 3656.5

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	
22942	MWE 140	6 21.6	+14 57	I-25	E10300	008	-5.0	23 32	00 12	
	HD 45314									
22943	MWE 146	6 25.6	+11 19	"	"	"	-4.3	00 14	00 32	
	HD 45395									
22744	H.D. 36484	05 26.9	+32 44	"	"	"	-4.4	00 40	01 30	
22745	i U Ma	08 52.4	48 26	"	"	"	"	01 42 ⁰⁰	01 45	
								01 43	01 44	
22946	U U Ma	07 43.9	59 31	"	"	"	"	-4.3	01 45	01 44
								02 17	02 11	
22947	o Leo	10 27.5	+09 49	"	"	"	"	-4.2	02 21	02 22
								02 21	02 22	
22948	B 3138	11 55.7	-19 06	"	"	"	"	-4.2	03 28	03 44
								03 28	03 44	
22949	Σ 1669 B	12 36.1	-12 28	"	"	"	"	-4.2	03 25	04 10
22750	B 3523	12 40.6	+08 13	"	"	"	"	-4.7	04 52	05 08

Transparency Conditions

246

Clearing after 22 00

Temp.

15.377

Temp.

500

5

Ending Time E.S.T. ad	Angle	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
01 25	155	+14 54	0	7.1	B ₂ W	4-4-4	Set 2 Be prog.	fine
01 30	11W	+11 16	0	5.8	B ₂ W	4-4	" 5 "	fine
01 35	08W	+32 45	0	6.50	A ₀	4-4-4	" 2 Bin.	fine
01 40			0	3-12	A ₇ V		" 1 25' MK Std.	fine
01 45	59W	4 812				12	" 5 50'	fine
01 50			0	3.89	F ₂ IV		" 1 1"	fine
01 55						12	" 5 2"	fine
02 00	45W						" 9 4"	fine
02 05		+09 31	0-1	3.5	B ₁ Ib		" 1 40' "	fine
02 10						12	" 5 80'	fine
02 15	47W						" 9 2"40'	fine
02 20	28E	-19 25	0	5.1	B ₃	4-4-4	" 2 Ed Bin.	fine
02 25	40W	-12 47	0	6.4	F ₂	4-4-4	" 8 " North Pass.	fine
02 30	33W	+07 55	0	5.4	A ₅	6-6	" 1 " Haze + Thin Cloud	fine
						15/10	" 8 4 FH. +4 H in 4.	OK

Transparency Conditions

Temp.....

Wed Feb. 1, 1956

Temp.....

Changed to 12 1/2" camera

25" was focus 15.377
Silt 23.1512 1/2" is focus 12.926
Silt. 20.35Ending Triangle
E.S.T. 61

Declination

Seeing

Ptg.
Mag.

Sp.

Comp.

REMARKS

Quality

MC

SC

MTW

STW

S

SW

ME

Jan 31	+8.4 ^s	-20.8 ^s	-13.5 ^s	-4 ^m	+5.6 ^s	+24.1 ^s	-0.2 ^s
Feb 3	+13.7 ^s	-23.6 ^s	+0.8 ^s	-2 ^m	+7.5 ^s	-6.7 ^s	-4.4 ^s

Temp. +17°F

Transparency Conditions *Good*

250

12.926

Temp. +15°F

07.

3656.9

Ending Angle E.S.T. #1	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
20° 45' W	+47° 53'	00	8.6	F0	2 ^s -2 ^s -2 ^s	Set 2 α Per cluster, No. 104	<i>good</i>
22 12 2.5 W	+47 40	0	8.8	F1	2 ^s 2-2	Set 8 " " No. 159	<i>good</i>
22 44 11 W	+49 33	0	9.0	A2	1-1-1	Set 2 " " No. 1183	<i>too weak</i>
						22 ^h 45 interruptions by clouds, loss of exposure time ~ 20 min. 23 ^h 40 sky quickly covered with clouds Dome closed at midnight.	
						= PH + Y 10240	
						1 Box with camera, 400-speed, not yet opened	
						MC SC MTW STW S SW ME	
						Feb. 7 +20.1 ^s -28.3 ^s +24.9 ^s +.2 ^m +9.6 ^s -44.3 ^s -14.8 ^s	
						10 +24.8 ^s -31.4 ^s +39.9 ^s +.3 ^m +11.4 ^s -12.7 ^s -20.1 ^s	

Temp. +33°F
12.927

Transparency Conditions light haze,
clouds near north horizon
20⁴/₅ clouds scattered over the whole sky

252

Temp. 433

Ending Angle E.S.T. Int.	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
01:00 W	+49° 32'	0	9.0	A2	1-1-1 ^s	Set 2 α Per cluster, No 1183 Last half hour partly through clouds Observing interrupted by clouds	good
01:00 W	+49° 20'	0	9.2	A0	1-1-1	Set 8 α Per cluster No 1349 heavy	good
03:00 36W	+29° 45'	00	9.45	F3	1-1-1	Set 2 KAFS 0130 Some Haze	fair
					4/3	" 8 0340 Solid as a rock	OK
						H. m. M.	
						2. P. H. +2	
						MC SC MTW STW S SW ME	
						Feb. 14 +29.8 ^s -1.7 ^s 0 -0.2 ^m +11.3 ^s -5.6 ^s -20.2 ^s	
						17 +33.8 ^s -5.9 ^s +14.9 ^s -0.01 ^m +12.6 ^s +26.0 ^s -16.3 ^s	
						20 +37.5 ^s -10.6 ^s -7.9 ^s -4 ^m +12.2 ^s -3.6 ^s -21.0 ^s	

253

Date 1956 Feb 20/21 Mon. Inv. Observer MR-HV Julian Day 2435524.

0 331 15 19.4 3626.4

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.
22957	BD +48° 907	03 ^h 18.0 ^m	+48° 55'	I-12 $\frac{1}{2}$	103a-0	set .016	-0.6C	18:46	19:36
22958	47 835	3 22.1	+47 59	"	Hi-Speed	"	-	19:46	20:21
22959	47 846s	3 24.6	+47 33	"	"	"	-	20:26	20:46
22960	48 943	3 24.8	+48 25	"	"	"	-0.9C	20:55	21:15
22961	47 831	3 20.9	+47 25	"	"	"	-	21:20	22:00
22962	HD 35921	5 23.0	+35 18	"	103a-0	set .008	-	22:09	22:31
22963	46056	6 26.0	+04 54	"	"	"	-1.1	22:39	23:59
						.016			

Temp. 22°F

12.92.7

Temp.

Transparency Conditions very good, but sev. clds from W

254

24.

36264

Ending Triangle E.S.T. Id	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
19 36 W	+49° 06'	0	8.2	A:	1-1-1	Set 2; ✓ Per #639	some clds fine
20 27 W	+48 08	0	7.2	B9	2-2-2	Set 2; " 831	" " fine
20 00 W	+47 43	0	6.6	B9	2-2-2	Set 8; " 955	" " fine
2 19 W	+48 35	0	6.5	B9	2-4	Set 2; " 965	" " fine
20 07 W	+47 34	0	7.1	A0	2-2-2	Set 8; " 775	" " fine
20 01 W	+48 21	0	6.6	09.5 III	2-2-0	Set 2; OBp.26,	" " fine
23 03 W	+4 53	0	7.7	08	2-2-2	Set 8; OBp.18	" " weak
						0025 - snow	
						H. m. 11. 1 P.H. + 12	
						0200 Snowed out	

Temp. +28°F
12.927

Transparency Conditions

256

L. please check

Ending Angle E.S.T.	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
20° 15" W	+59° 31'	1-0	9.0	F13	2-1'	Get 2. 2 Pic. # 522	fine
21° 14" W	+47° 49'	0	9.2	A5	1-1-1	" 8 α Pic # 658	fine
22° 15" W	+47° 46'	0	8.3	A0	1-1-1	" 2 α Pic # 507	fine
23° 13" W	+29° 19'	0	9.89	F5	1-1-1	" 2 KAFS from Mars 569	fine
24° 12" W	29 10	0	9.78	G5	1-1-1	" 8 " 10400 Haze + Cloud.	fine
					4/3	" 5	OK
2 P.H. + 8 Horn III							
						MC SC MTW STW S SW ME	
						Feb. 24 +43.2 ^s -16.2 ^s +15.1 ^s -02 ^m +14.8 ^s -21.5 ^s -17.3 ^s	
						29 -0.1 ^s -0.8 ^s +27.9 ^s +.2 ^m +15.2 ^s -31.8 ^s +4.0 ^s	

Frontal of redness
Sail slat in photo
fast

Temp. +23°F

Transparency Conditions

Clear

258

12.9

Temp. +17°F

Ending Angle E.S.T. Mil	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
20 19W	+47 59	0	8.8	F7	2-2-2	S12 α Per. #1225	fine
21 17W	+48 04	0	8.4	A3	1-1-1	" 8 α Per #694	fine
22 22W	+50 50	0	7.0	B9	2-2-2	" 5 α Per #441	fine
23 20W	+4 52	0	7.7	O8	2-2-2	" 5 OB p 28	good
01 17W	+44 25	0	7.2	G2	1-1-1	" 2 KAES #1110 301	fine
05 17W	44 19	0	7.6	F7	1-1-1	" 8 " " 322	fine
00 316E	47 34	0	5.2	K+B	2-2-2	" 5 0400 A little haze / 0510 Thin Cloud.	strong cloud
					8/6	" 9	

2 P.H. + 4

H on M.

Thurs - Fri Mar 1-2 Partly clear at first, but secondary frost, 16d

	MC	SC	MTW	STW	S	SW	ME
Mar 2	-2.7 ^S	-0.6 ^S	-22.0 ^S	+3.3 ^m	+17.4 ^S	-7.6 ^S	-0.6

Transparency Conditions

Temp.....

.....

Temp.....

clearing into ~22^h EST

sky busy

Ending Angle E.S.T. Sp	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
						Shutter does not move. Voltage, fuses and trolleys checked. Instrument closed 22 ^h 20	
						Found blown fuse. & fixed it. Hr.	
						MC SC MTW STW S SW ME	
						Mar. 5 -0.9 ^s -2.3 ^s -8.1 ^s +.8 ^m +17.8 ^s -36.0 ^s -5.0 ^s	

air Temp. +34°F

13.924

air Temp. +33°F

Transparency Conditions *cloudy earlier*
clearing about 8:30 PM.

262

Ending Angle E.S. 2nd	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
22 4E	+44° 54'	0	7.50	A8	1-1-0	KAFS 29-304 St 2	<i>fine</i>
22 06E	+44 36	0	8.52	G3	1-1-1	" 29-306 " 8	<i>weak</i>
					4-3	" 10½	<i>OK.</i>

Observing through holes in clouds from 22.57 onwards

1 PH. loaded Hon M.

	MC	SC	MTW	STW	S	SW	ME
Mar. 9	+0.2 ^s	-3.6 ^s	+6.4 ^s	+7 ^m	+18.4 ^s	+1.5 ^s	-3.8 ^s
12	+3.3 ^s	-4.2 ^s	+21.7 ^s	-0 ^m	+19.8 ^s	-28.4 ^s	+0.8 ^s

Temp. +23°F

Transparency Conditions *Cloudy, clearing later.* 264

12 926

Temp. +17°

Ending Angle
E.S. 11

Declination

Seeing

Ptg.
Mag.

Sp.

Comp.

REMARKS

Quality

025	25 W	+45 16	0	9.15	F9	1-1-1	End 2	KAPS #310	0030 Cloud - Horiz	Am
051	33 W	+45 22	0	9.28	F3	1-1-1	" 8	" 347		Am
						4/3	" 5			

Mon. M.

4 P.H. 2nd

	MC	SC	MTW	STW	S	SW	ME
Mark	+5.6 ^s	-5.8 ^s	-17.3 ^s	+4 ^m	+22.2 ^s	+7.7 ^s	-1.5 ^s

Temp. +19°F

12.226

Temp. +14°F

Clouds at sunset + some mechanical
delays slowed start.

Ending Angle E.S.T. Ed	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
00 00 46W	44 02	0	9.85	F9	2-2-	Set 2 K.A.F.S.	fin
01 49 2W	44 24	0	9.12	F5	1-1-1	8 Hms 327	fin
02 32 8W	44 15	1	9.27	F6	1-1-1	2 Hms 333	fin
03 15 6W	44 34	1	9.90	F9	1-1-1	5 Hms 341 I am not quite satisfied about the field.	fin
					4/3	8	fin
						2 PW	fin

267

Date Sun. Mon. Mar 18/19 1956 Observer MR - Hr Julian Day 243555.1

G 358 17 07.8 3577.2

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.
[22984	BD+49°975	3 ^h 29.8 ^m	+49° 24'	I-12 $\frac{1}{2}$	1030-0	.016	-2.0C	19:45	21:39
[22985	HD 82570	9 27.7	+29 19	"	"	"	-0.8C	21:49	23:49
22986	BD+30° 2175 H.D. 113975	11 29.8	+29 59	"	"	"	-0.7	23:55	02:19
22987		13 02.4	29 14	"	"	"	-0.7	02:29	05:15
	<i>Focus Test</i>				<i>O.P.B.</i>				

Temp. +21°F

Transparency Conditions *excellent*

268

12.926

Temp. 16°F

3577.2

Ending Time E.S.T. Ed	Angle	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
2:29	33 W	+49° 33'	1	(9.5)	A2	1-1-1	x Per 1183 set 2	weak
2:40	47 W	+29 04	1	10.02	G8	1-1-1	KAFS 53-573 set 8	fine
03:01	16 W	+29 39	0	9.78	G5	1-1-2	" 55-587 set 7?	good
05:21	10 W	28 54	0	9.76	K5	1-1-1	" " 2	fine
						4/3	" 10	stored
							Hom. M.	
							2 P.H. +10	

Temp. +22°F

12.926

Temp. 19°F

C = Covington

Transparency Conditions excellent

270

52

574.9

Ending Time EST	Angle	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
2:15	34 W	+51° 16'	1	9.1	F2	2-2-2	x lens 314 set 2 (max hr < west 5:34)	fine
2:20	30 W	+29 27	1	9.93	G8	1-1-1	KAFS 53-587 set P	fine
0:15	22 W	+29 43	0	9.66	F6	1-1-1	" 54-579 set 2 (Ny dbl.)	fine
0:55	24 W	29 42	0	10.08	F8	1-1-1	" " 8 North Following	fine
						4/3	" 5	ok red

4 P.H. + 6?

Hor. M.

	MC	SC	MTW	STW	S	SD	ME
Mar. 20	+9.8	-7.2	+4.9	+5 ^m	+23.8 ^s	+10-13.0 ^s	

Temp. +32°F

Transparency Conditions *good*

272

12:26

Temp.

Down the load of the miter, need adjustment?

Heat was on at the beginning of night

Ending Angle E.S.T. M	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
100	49 47	1	8.0	A0	1-1-1	per 2 x Per mag. no 780	fine
100	48 20	1	8.6	A3	1-1-1	8 " no 885	fine
100	47 56	2	5.7 7.9	B9 20	1-1-1	2 " 82 904	Watery
100	46 34	1	8.5	A5	1-1-1	8 " 921	fine
100	45 15	1	9.87	B8	1-1-1	2 KAFS, mag 303	fine
100	44 25	1	9.92	F7	1-2-2	8 " " 308	fine
100	44 30	1	9.48	F8	1-1-1	2 " "	strong
100	45 28	1	7.64	F3	2-2-2	5 " "	fine
					^{2/6}	" 10	Good
2 F4's load + 4							
N m M							
MC SC MTW STW S SW ME							
Mar. 22 +10. ^s -8.9 +12. ^s +6 ^m +24. ^s +9. ^s +39							

Temp. +30°
12.926

Transparency Conditions *slightly hazy in the northern sky*
clouds near NW end N horizon

274

Temp.

Delay in start because shutter was stuck. Found shutter fuse broken
since ~ 8^h 20^m EST strong Aurora

Ending Triangle E.S.T. Mil	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
21° 5' 10" W	+51° 36'	0-1	7.7	A0	1-1-1	Set 2 ← × Per clock Nr 575	fair
22° 9' W	+31° 42'	1-0	7.7	A0	2-2	Set 8 { At least 50% of exposure time lost K.A. 6x6 { because of failure of driving clock (planetary gear) ↑ clouds interrupt the exposure. Len ~ 10 min New trouble with driving mechanism New clouds, dome closed 22 ^h 30 ^m	an poor fair
						3 P.H. + 2 plates in box	

275

Date Sat. Mar. 24-25/56 Observer L. B. K. Julian Day 2435557.

© 04 14 164 3563.7

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.
23002	BD. 49 921	03 17.7	49 27	J-12 $\frac{1}{2}$	E-103A ₀	set 016	-2.9	20 27	21 07
23003	HD. 84219	09 38.5	44 53	"	"	"	-2.9	21 20	22 10
23004	BD 45 1758	09 38.7	45 24	"	"	"	-3.0	22 14	01 34
23005	HD 114059	13 02.9	+29 57	"	"	"	-3.2	01 40	05 00
	Focus 102	0.7	12						

Temp. +24°F

Transparency Conditions

Good

276

12.9.16

Temp. +12°F

Some light clouds and snow at sunset

Ending Time E.S.T. Ml	Angle	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
21	37W	49 38	0	9.0	AB	1-1-1	Set 2 α Pers. Cluster 635	too weak
22	30W	44 37	0	8.52	G3	1-1-1	" 8 K.A.F.S.	fair
23	45W	45 08	0	9.99	G2	1-1-1	" 2 "	fair
24	30W	29 40	0	10.06	G8	1-1-1	" 5 "	fair
						4/3	8	no water spectrum
							284 +12	

277

Date Mon-Tue 1956 Mar 26/27 Observer Boe - H v Julian Day 243555.9

☉ 06 13 01.6 3559.6

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.
23006	{ BD+47° 826	03 198	+47 35	F-12 1/2	E103-a-c	^{set} 016	+18	19 50	20 10
23007	{ BD+47° 821	03 191	+48 03	"	"	"	"	20 14	20 30
23008	{ HD 82011	09 242	+30 28	"	"	"	+2.0	00 29	23 54
23009	{ HD 105020	12 004	+29 04	"	"	"	2.0	00 03	02 17
23010	{ BD + 29° 2495	14 02.6	29 45	"	"	"	2.0	02 24	05 16
	From list O.F.B.								

Temp. +37.02

Transparency Conditions good

278

Had to open shutters partially to hand, then lower sec. bearing. Need more 15 + 25A fuses!!

Temp. +37.02

3559

Ending Angle R.S. East	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
00 00	47 45	0	76	A	1-1-1	set 2 & bar, no 729	fine
00 5 30	48 14	0	74	A0	1-1-1	8 602	fine
03 21W	30 15	0	1009	301	1-1-1	2 KAS, 400 507	strong
03 5W	28 44	0	956	K0	1-1-1	8 " 400 506	fine
05 213W	29 28	00	1000	F8	1-1-1	" 2 " Guiding poor all night.	fine
					4/3	" 8	etc. red
						Hom. M. 2 P.H. + 10	

temp. 26

Transparency Conditions

Telescope is 2m slow on Sid clock when set on correct RA for * 874 same for next star. Please reset Sid clock

60

temp.

3557.5

Right Ascension	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
25 35	47 50	0	7.9	A0	1-1-1	SIT 2 & Per Cluster # 874	fine
25 05	48 28	0	7.0	A0	2-2-2	" 8 " # 1082	fine
21 16	30 07	0	7.76	A0	2-2-2	" 2 KA 6x6	fine
getting very cloudy.							

Temp. +45°F

12.415

Temp.

Transparency Conditions

284

Considerable cloud in early evening.

354.2

Angle	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality																								
5 23	45W 44 24	0	9.12	F5	1-1-1 4/3	Set 2 " 8 0120 Clouds at midnite Then clear Cloudy again 1 P.H. Hon. M.	OK																								
						<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>Apr. 3</td> <td>+17.5</td> <td>-16.2</td> <td>-45.0</td> <td>+2^m</td> <td>+28.5</td> <td>-4.0</td> <td>+0.4</td> </tr> <tr> <td>6</td> <td>+18.4</td> <td>-17.0</td> <td>-32.0</td> <td>+4^m</td> <td>+31.0</td> <td>+14.9</td> <td>+4.3</td> </tr> </tbody> </table>		MC	SC	MTW	STW	S	SW	ME	Apr. 3	+17.5	-16.2	-45.0	+2 ^m	+28.5	-4.0	+0.4	6	+18.4	-17.0	-32.0	+4 ^m	+31.0	+14.9	+4.3	
	MC	SC	MTW	STW	S	SW	ME																								
Apr. 3	+17.5	-16.2	-45.0	+2 ^m	+28.5	-4.0	+0.4																								
6	+18.4	-17.0	-32.0	+4 ^m	+31.0	+14.9	+4.3																								

Temp. +28°F

Transparency Conditions Cloudy after sunset

286

Temp. +31°F

still some scattered clouds at opening

0025 Fireball through Leo going N.W.

Ending Angle E.S.T. 1	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
01:11	+59 07	0	9.86	G3	1-1-1	pet 2 KAFS, times 17	fine
01:15	59 21	0	9.32	F6	1-1-1	8 " " 124	fine
04:15	30 13	0	10.08	G 8	1-1-1	" 2 " " 634	fine
					4/3	" 8	fine ok
						3 P.H. + 12 Hon. M.	
						Clocks Need Resetting	
						MC SC MTW STW S SW ME	
						April 9 +19.2 ^s -17.6 ^s -18.9 ^s +.7 ^m +31.3 ^s -14.8 ^s +1.2 ^s	

287

Date Mon. June 1956 April 9/10 Observer MR - H v Julian Day 2435573

① 20 00 47.0 3533.8

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.
23024	HD 46056	06 ^h 26. ^m 0	+04° 54'	I-12 $\frac{1}{2}$	1030-0	set .008	+5.0C	19:38	20:38
23025	HD 43818	06 13.2	+23 30	"	"	"	+4.8	20:45	20:50
	"	"	"	"	"	"	"	20:51	21:00
23026	BD +30° 1875	09 26.6	+30 02	"	"	set .016	+4.7	21:07	23:09
23027	p Leo	10 27.5	+9 49	"	"	set .008	+4.7	23:18	-
	"	"	"	"	"	"	"	-	-
	"	"	"	"	"	"	"	-	23:19
23028	HD 95975	10 59.2	+60 06	"	"	set .016	+4.5	23:31	02 01
23029	B.D. +27 2751	15 57.6	29 42	"	"	"	+4.5	02 14	04 50
	<i>From</i>	<i>Table</i>	<i>29.13</i>						

Temp. +37°F

Transparency Conditions

good; sl. haze in W & SW

288

12.915

Temp.

573

3533.9

Ending Angle E.S.T. E-1	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
20 44W	+4° 50'	0	7.7	08	2-2-2	sl 2 OB p 28	good
20 28W	+23 30	0	6.7	B0 II	-	sl 5 MK std.	weak
21 40W	"	"	"	"	6	" 8 "	
22 34W	+29 47	0	9.73	F0	1-1-1	" 2 KAFS 53-571	fine
	+09 32	0	3.6	B1 I6	-	" 2 MK std, Exp 4 ^s	
		0	"	"	6	" 5 FS	too weak
23 45W	"	0	"	"	-	" 8 20 ^s	
03 5W	+59 46	0	9.85	F7	1-1-1	" 8 KAFS 13-118	fine
04 7W	29 40	0	9.99	F5	1-1-1	" 2 " 60-635	good
					4/3	" 8	OK
3 P.H + 8 H.M.							

Temp. 40

Transparency Conditions

290

Cloudy at first, then very good

Temp.

35317

Ending Angle E.S. Ed	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
6W	48 12	1	3.30	A7 \bar{U}		set 2 5 sec M.K. 4d.	
					6	5 10 sec	fine
						8 20 sec	
			4.3	F2 \bar{U}		set 2 20 sec	
55.1	59 14				6	5 40	fine
						8 40	
70W	16 59		3.6	A0 $\bar{I}b$		10	
					6	70	fine
	12 12					40	
			1.21	B7 \bar{U}		1/2 sec	
						1 sec	good
					6	3 sec	
						4 sec	
			3.82	F0 \bar{U}		10	
					6	20	fine
0.63	02 25	1				40	

291

Date Apr 10/11, cont. Observer..... Julian Day 2435573

© 20 59 46.8 3531.7

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.
23 035	40 Leo	10 14.3	+12 59	I-1/2	E135a-0	008	10.2	22 22	22 23
								22 24	22 26
								22 27	22 31
23 036	HD 95735	10 57.9	36 38	I-1/2	E103a-0	008	10.2	22 41	01 30
	Focus Just				0 TB				

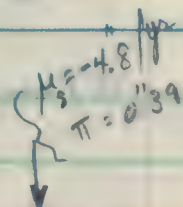
Temp.

Temp.

573

3531

Ending Triangle R.S. Id	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
	10 41	0	5.27	FG IV		set 2 lens	
					6	2	
						2 min	
0173 29W	36 15*	1	8.98	M2 V	2-2-2	MIC STD SET 5	
					8/6		
						* note dec (should be 36 22) but only * in field & very red.	
						clouds and haze poor at 1.30	
						4 PH & loaded plates needed	



fine
good
OK

Temp. +43°F

Transparency Conditions *clear*

294

Temp.

9.6

Ending Azimuth E.M. Ind	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
19 30		0	151	B7 III		5+ 2 MK 3°	
19 30			"			4 6°	<i>fine</i>
19 30			"		6°	7 12°	
19 40 W	+28 35		4			10 24°	
19 50		1	5.0	B5 V		5+ 2 MK 40°	
					6°	5 80° 17 20	<i>fine</i>
19 50 W	+41 47					8 160° 2° 40°	
20 00		1+	6.05	M2 5b		2 MK 2"	<i>good</i>
			"		6°	5 4"	
20 00 W	+18 34		"			8 8"	
20 00		1+	7.0	B9 II		" 2 MK	<i>fine</i>
21 00 W	+23 18				3-	5	
21 00			6.7	B0 II		" 2 MK	<i>fine</i>
21 00 W	+23 30		"		3-3	" 6	
21 00			3.69	A3 III		" 2 MK 15°	
					6°	5 30°	<i>fine</i>

295

Date Apr 11/12, 1958

Observer O -

PSC

Julian Day 2435575

☉ 21 58 32.5 3529.6

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.
(cont'd)	θ Gem	"	"	"	"	"	+102	21 47	21 49
23043	30 Sex	10 25.2	-0 07					22 00	22 01
								22 01	22 02
								22 02	22 04
								22 05	22 09
23044	α Leo	10 03.0	+12 27					22 13	22 13
								22 13	22 13
								22 14	22 14
								22 15	22 15
23045	γ Leo	10 27.5	+9 49					22 20	22 20
								22 20	22 21
								22 21	22 22
								22 22	22 24
23046	δ Leo	11 08.8	+21 04					22 22	22 25
								22 32	22 32
								22 33	22 34
								22 34	22 35

Transparency Conditions

Temp.....

.....

Temp.....

529.6

Ending from Angle - EST and	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
21 7 2 W		1				Set 10	
			4.8	B1 V		Set 1 1/2	
					6	4 1	
	- 0 35					7 2	
						10 4	
			1.21	B7 V		Set 1 2"	
						4 4"	
					6	7 8"	
						10 16"	
	12 12	1					
			3.6	B1 Ib		Set 1 15	
						4 30	
					6	7 60"	
						10 2 ^m	
	9 32		2.74	A4 V		1 7"	
						4 15"	
					6	7 30"	
						10 1 ^m	

fin

fin

fin

fin

297

Date April 12, 1954

Observer P.K. O -

Julian Day 2435575

© 21 58 32.5 3529.6

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.
23047	θ Leo	11 09.0	+15 59	[12 1/2	E102-a-D	.008		22 38	22 38
								22 39	22 39
								22 40	22 40
								22 41	22 42
23048	β Leo	11 44.0	+15 08				102	22 48	22 48
								22 48	22 48
								22 49	22 49
								22 50	22 51
23049	γ Uor (A)	12 26.0	-0 54					22 59	22 59
								22 59	22 59
								22 59	22 59
								23 01	23 02
23050	γ Uor (B)							23 05	23 05
								23 05	23 05
								23 06	23 06
								23 07	23 08

Transparency Conditions

Temp.....

Temp.....

5575
55296

Ending Time E.S.T.	Angle and	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
			1	336	A2V		rt1 10 sec	
							4 20	strong
						6	7 40	
	33W	15 40					10 80	
		14 10		2.21	A2V		rt1 5 ^s	
							4 10	all strong
						6	7 20	
	37W						10 40 ^s	
				2.10	F0V		rt1 5 ^s double star, smaller	
							4 10	fine
						6	7 20	
	4E	-1 12					10 30 ^s	
							rt1 5 ^s with	
							4 10	fine
						6	7 20	
	9E		1				10 40 ^s	

299

Date Apr 11/12, cont.

Observer

PK

D

Julian Day 2435575

21 58 32.5 3529.6

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.
23 051	78 UMa	12 564	+56 51	I-12 $\frac{1}{2}$	E103-a0	008	10.2	23 17	23 18
								23 19	23 21
								23 22	23 26
								23 26	23 27
23 052	80 UMa	13 212	+55 37 ⁰	"	"	"	"	23 32	23 32
								23 32	23 35
								23 33	23 34
								23 35	23 37
23 053	* Dra	14 017	+64 51					23 42	23 45
								23 44	23 44
								23 45	23 46
								23 46	23 47
23 054	* Boo	14 281	+32 45					23 55	23 56
								23 56	23 56
								23 57	23 57
								23 58	23 59

Transparency Conditions

Temp.....

Temp.....

629.6

Ending Time R.S.T	Angle Ed	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
		56 35	2	5.30	F2 V		set 2 1m	
						6	5 2	fine
	030E						8 4m	
							10 1/2m	
		55 12	2	4.17	A5 V		1 15°	weakest fine
							4 30°	
						6	7 60°	strong
	3E						10 2m	
		54 25		3.59	A6 V		set 1 10°	
							4 70°	strong
						6	7 40°	
	2E						10 50°	
		38 20		3.42	A7 V		set 1 5°	weakest fine
							4 10°	strong
							7 20°	
							10 40°	

301

Date Apr 11/12 crmf

Observer

PKR

O - H ✓

Julian Day 2435575

⊙ 21 58 32.5 3529.6

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.
22055	109 Uru	14 412	+2 19	I-12½	E103-a-0	.008		00 33	00 03
								00 03	00 03
								00 04	00 05
								00 06	00 08
23056	BD+52° 2009	16 53.9	52 52	"	"	"	10.0	0037	00 57
23057	HD 113995	13 02.4	29 14	"	"	.016	10.0	01 24	03 34
23058	" 133965	15 02.2	29 35	"	"	"	"	03 41	04 51
	From Part 09B								

Transparency Conditions *a little haze before dawn.*

302

75.
529.6

Temp. *40.0 F*

Ending Angle E.S.T. Ed	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
	+2 05	2	3.74	A0V		ret 1 15"	
						4 30	<i>fine</i>
					6	7 60	
						10 2"	
01 24E	52 46	1-2	7.2	A0	2-2-2	" 2 Wn Edl Bin.	<i>strong</i>
03 23N	28 57	0-1-2	9.76	K5	1-1-1	" 2 KAFS.	<i>fine</i>
04 25OW	29 20	0-1-1	9.42	K6	1-1-1	" 9 "	<i>fine</i>
					7/3	" 5	
						Seeing variable } 5-day Pass } all night	
						3 P.H. +4	
						H on. M.	
						MC SC MTW STW S SW ME	
						Apr. 12 +21.4 ^s -18.2 ^s -30.5 ^s +.5 ^m +36.9 ^s +19.7 ^s -8.9 ^s	

303

Date Fri-Sat April 12/14, 1958

Observer

PK

Wm

Julian Day 2435577

☉ 23 56 09.7 3525.3

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.
23059	γ Gem	06 31.9	+16 29	I-10 $\frac{1}{2}$	E103-m-0	not 008	+55	20 26	
								20 26	
								20 27	
								20 28	
23060	HD 18434	06 30.3	+4 02	"	"	"		20 36	20 38
								20 39	20 42
								20 45	20 52
23061	δ Leo	11 15.2	+21 04					21 02	
								21 03	
								21 04	
								21 06	
23062	β Leo	11 44.0	+15 08				59	21 15	
								21 16	
								21 16	
								21 18	
23063	HD 172345	16 53.9	+52 52	"	"	"		21 29	21 58

Temp. +35° F

12.915

Transparency Conditions clearing after sunset

304

Temp.

Angle	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
	16 25	2	1.95	A0 \bar{V}		6.4 1 1 ^s	
						4 2 ^s	fine
					6	7 4 ^s	
05W						10 8 ^s	
	03 58	2	5.89	B0 \bar{M}		2 2 ^m	
					6	5 4	guiding! fine
						2 2 ^m	
	20 47	1	6.74	A4 \bar{V}		1 3 ^{sec}	
						4 5	fine
					6	7 12	
						10 2.2 ^{sec}	
	152 509	1	2.31	A3 \bar{V}		1 1 ^{sec}	
						4 2	fine
						7 4	
						10 8	
	02 111	1	7.42	A0	3-3	1 1 ^{sec}	1. strong

305

Date April 13/14 cont. Observer -H- Julian Day 24355.77

© 23 56 09.7 3525.3

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.
<u>23063</u>								21 58	22 08
<u>23064</u>	+15 14 73.79	16 16.5	+67 29	1-172	2-12-0	100	+5.9	02 31	03 37
<u>23065</u>	" 15 33 45	16 53.9	52 52	"	"	"		03 50	04 05
	"						5.8	04 05	04 35
	<u>Zone Test</u>				<u>7913</u>				

Transparency Conditions

for some time after in Sand W

306

temp.....

temp.....

Ending Time E.S.T.	Angle	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
						3-3	net 8	
07:00	2W	+67° 20'	1	10.01	MOV	2-2-2	kt 2 MK Standard	Clock running very irregularly
07:15	2W		0	7.1-7.2	A0	2-2-2	" 2 Wn Ecl Bin.	not there
07:30	2W	52 44	"			2-2-2	" 8 "	blurred badly
						8/6	" 8 "	good
							4 P.H. + S	fine
							H on M.	OK
							MC SC MTW STW S SW ME	
							Apr. 16 +21.4 ^s -20.4 ^s -13.5 ^s +7 ^m +36.6 ^s +18.4 ^s +0.4 ^s	
							Sat Apr 14: 55 visib - cloudy near horizon & light	
							Jell on plants	
							nr-bk 2 PASC present	
							Apr. 19 +22.7 ^s -22.4 ^s +5.6 ^s +.9 ^m +38.6 ^s -11.3 ^s +1.1 ^s	

307

Thu. - Fri.

Date (Fri) April 19-20/58 Observer Hd - H v Julian Day 2425583

0 29 48 08.2 3511.9

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.
{ 23066	BD +45 1753	9 36.7	+45 30	I-12	E103A0	016	+5.0	20 32	23 22
{ 23067	HD 111851	12 47.1	+44 33	"	"	016	"	23 26	01 38
	Flame Test		0.7 B.						

Temp. 33 F

Transparency Conditions

308

Cloudy after sunset

Temp.

Ending Angle
B.S.

Ending Angle B.S.	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
23 23 16	45-13	0	9.87	B8	2-22	Set 2 KAFS.	
23 24 W	44 15	0	9.27	F6	1-1-1	" 8 " 0100 Cloud.	fine
					4/3	" 5 "	strong
						3 PH. + 8	OK

↳ please clean visitors' eyepieces before Sat.

Temp. 30°

Transparency Conditions Good

310

Temp.

Ending
E.S.T.

Angle	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
20 00	50 05	1	9.56	F6	1-1-1	set 2 KAFS, timing	Dec slow motion
20 20	59 06	1	10.02	G5	1-1-1	8 " 122	needs fixing!!
Intermittent cloud after midnite							
S/L deck at 0130							
2 P.H. + 8 Hon. M.							

strong
fine

311

Date Sat Apr 21-22/56 Observer Hol - 82 Julian Day 2435.585
0 31 45 09.9 3507.7

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.
23070	H.D. 97420	11 07.6	59 41	I-12 $\frac{1}{2}$	E-103A ₀	set .016	+5.8	21 50	22 52
23071	HO 112297	12 50.6	44 50	"	"	.016	+5.4	22 58	00 18
23072	8D +45° 2134	13 46.8	+44 52	"	"	"	+5.6	00 34	03 04
23073	HD 135046	14 52.0	+45 18	"	"	"	"	02 08	03 50
23074	HD 53245	16 52.9	+52 52	"	"	.008	"	03 58	04 14
23075	r Her	16 16.7	+42 33					04 19	
								04 20	
								04 22	
								04 22	04 24
23076	p Her	16 17.5	+19 23					04 32	
								04 32	
								04 33	
								04 35	04 36
23077	8 Her	18 15.2	+22 33					04 43	
								04 44	
								04 45	

Temp. 36°F

Transparency Conditions

312

Temp. 32°

About 100 visitors, 8 Lowed 4, 10 with the
moon with 5" 4RASC showed
C, 4, 9

Ending E.S.T.	Angle	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality	
11:24	59 22	1	932	F6	1-1-1	Set 2	KAFS	fine	
11:29	44 30	1	948	F8	1-1-1	" 8	" } Windy Bright auroral streamers	fine	
11:31	44 34	0	990	F9	1-1-1	" 2	" } Double star with separation of few sec. by eye = ADS9035	fine	
11:33	45 05	0-1	912	F0	1-1-1	" 8	"	fine	
11:34	53 45	0	7172	A0	3-3	7	Wn binary	strong	
			372	B5IV		set 1	" 50 M & sid		
						7	20		fine
						6	70		
11:34	46 24	1				10	40		
			400	A9III		1	10		
						4	20		fine
						6	40		
11:34	19 14	1				10	20		
			372	B9III		1	2		
						7	4	124, 125 stars	fine
11:35	22 33	1				7	1		
						10	15		

313

Date *Mon Tue Apr 23/24 1956* Observer *MR - H v* Julian Day *2435.587**033 +2 03.3 3503.8*

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.
23078	BD +30° 1875	09 ^h 26. ^m 6	+30° 02'	I-12 $\frac{1}{2}$	103a.0	^{at} 016	+4.1°C	20:16	22:46
23079	HD 105020	12 00.4	+29 04	"	"	"	+3.9	22:50	01 10
	<i>From</i>	<i>list</i>	<i>G.T.B.</i>						

Temp. 34°F

Transparency Conditions

314

clearing at sunset
low haze in S

Ending Time E.S.T.	Angle and	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
27	07W	+29° 47'	0	9.73	FO	1-1-1	set 2 KAFS 53-571	fair
01	5.8W	+28 44	0	9.56	KD	1-1-1	set 5 " 56-596 0040 v. Thin Cloud from W.	fair
						4/3	" 5 0125 Solid.	OK.
							3 P.H. +12	
							H.M.	
							MC SC MTW STW S SW ME	
							Apr. 23 +23.3 ^s -24.5 ^s -24.9 ^s +.7 ^m +40.1 ^s -29.9 ^s +3.1 ^s	

Temp. 35°F

Temp. 29°F

Transparency Conditions *few fine long cirri in W*

slightly hazy all over the sky

316

Ending Time E.S.T.	Angle and	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
00:15	5° W	+44° 35'	0	9.88	F7	1 ^s -1 ^s -1 ^s	Set 2 KAFS 29-308	<i>fine</i>
00:55	5° E	+52° 45'	0	7.1	A0	2-2-2	Set 5 Wn Ed. Cir.	<i>fine</i>
01:30	37° W	45 03	0	9.17	G5	1-1-1	Set 8 K.A.F.S. prog.	<i>fine</i>
02:00	39° W	45 04	0	9.13	F0	1-1-1	" 2 " "	<i>fine</i>
04:45	33° W	29 21	0	9.42	F6	1-1-1	" 8 " "	<i>fine</i>
							4 P.H. s loaded + 8	

317

Date Thurs Apr 26-27/56 Observer Hd - Hv Julian Day 2435.590

036 37 09.2 3498.4

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.
23085	ν Gem	7 29.8	27 07	I-25	E103A0	008		21 06	21 16
								21 17	21 21
								21 22	21 23
							9.1	21 24	21 30
23086	λ Leo	10 03.0	12 27	"	"	"		21 41	4 sec.
								21 42	2 sec.
								21 44	24 sec.
								21 45	12 sec.
23087	31 Com	12 46.8	28 05	"	"	"	9.3	21 55	22 07
								22 02	22 14
								22 15	22 17
								22 18	22 23
{ 23088	HD 12 2742	13 58.6	11 16	"	"	"	9.1	22 32	23 02
{ 23089	HD 12 6053	14 18.1	+1 43	"	"	"	9.1	23 06	23 36
23090	HD 15 316	19 11.0	+27 46	"	"	"		23 48	00 14
23091	" 15 3345	16 53.9	+28 52	"	"	"	10.3	00 34	00 56

Temp. 42 F
15.552

Transparency Conditions

318

Apr 26 changed to I-25. I 12 was from 12.915 tilt 20.32
(should be 20.35).
from 15.552 tilt 23.15

Ending Time EST	Angle hd	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
21 16			2	5.7	M0 III	4-4-4	Set 1 MK std	
21 22							" 4	at 21.30 about
21 23							" 6	uniquely anura weak
21 23	13 59	27 01				6-6	" 9	Dense some.
21 24			2	1.21	B7V	12	" 1	Crown just S
21 24							" 4	in front with
21 24							" 6	deep red colour
21 24	11 41	12 12				12	" 9	
21 24		27 46		5.7	G0 III	6-6	" 1	The plate has 2 more it.
21 24							" 4	23087 is right
21 24							" 6	23086 - wrong
21 24						12	" 9	
21 25	57	10 59	2	6.8	G5	4-4-4	" 2	
21 25	43	41 26	1	6.8	G0	4-4-4	" 9	OLS
00 00	16 E	27 52	1	6.64	B5	4-4-4	" 2	Sp. bin. for N
00 00	16 E	52 45	1-2	7.2		4-4-4	" 2	W. Bin. 0040 An. for B. III

strong

fine

fine
good (?)
weak
Focus
bad

Sat. April 28 - cloudy.

Transparency Conditions

320

air Temp.....

66 visitors given lecture

sea.....

and shown telescopes.

sun Temp.....

84

Ending Year R.S.F.	Angle Ed	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
01	2 E		1-2	3.67	F ₆ IV	12 each	Set 1, 5, 9. Ex. 30°, 60°, 120°	Guiding bad. fine
01	3 E		"	"	"	12 each	" " " "	Guiding bad. fine
07	5 E	+ 16 47	1	6.9	F ₅	4-4-4	" 2 Ec1. Bin. Proj. 0234 some thin Clouds	fine
01	2 E		0-1	3.67	F ₆ IV	12 each	" 1, 5, 9. Ex. 30°, 60°, 120°	Guiding bad. weak
01	5 E		0	"	"	"	" " " "	Guiding bad. fine
						15/10	" 8	OK

I.P.H. No Photos
H.M.

Sky is a Mess!!

Mc	Sc	MTW	STW	S	SW	ME
Apr. 30 +26 ^s .8	-31.9	-44 ^s .3	-.4 ^m	+41.8 ^s	+59 ^s	0

321

Date Mon-Tue Apr 30 / May 1, 1956 Observer MIR Julian Day 2435.594
040 30 131 3492.0

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.
23097	γ Gem	06 31.9	+16 29	I-75	E103-2-6	.008	+8.5°C	20 39	20 39
								20 41	20 41
								20 42	20 42
								20 43	20 44
23098	α Cen	10 03.0	+12 27	"	"	"	"	20 53	20 53
								20 54	20 54
								20 55	20 55
								20 56	20 57
23099	HD 57103 Σ 1065 A	07 47	+55 48	"	"	"	"	21 09	21 13
								21 13	21 21
								21 21	21 27
23100	HD 106112 B 3182	12 07.5	+78 16	"	"	"	"	21 45	21 48
								21 49	21 55
								21 55	22 07
								22 07	22 16
23101	HD 112028 ADS 9021A (SF)	12 49.4	+83 57	"	"	"	"	22 16	22 21
								22 21	22 31
								22 32	22 36

33
25

Transparency Conditions

322

Temp.....

15.555

Temp.....

92.0

Ending Time EST	Angle Ed	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
			0	19	A010	12	set 1 5 th	fine
							4 10	set 1 st on HD 43818 but it is too far west
	11 25						6 20	fine
	(250)					12	9 40	
			0	121	B7V	12	1 1	"
							4 2	fine
							6 "	
	12 12					12	9 8	
	15 22		0	54	B2		1 903 Prog.	fine
						4-4-4	5	
	(51)						7	
	17 10		0	513	A5		1	"
						11-4-4	5	fine
	(40)						9	
			0	52	A2		1 (5 th)	" S-Fall 100L. Probably very close.
	211 +83 38					6-6	5 (10 th) 9 (4 th)	fine

323

Date Apr 30 / May 1 cont. Observer MR - H Julian Day 2435.594

0 40 30 13.1 3492.0

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.
23102	HD 112014								
	B 3354 NP	12 48.3	+82 52	I-25	E102-a-0	0.009	+8.0	22 39	22 40
								22 49	22 54
23103								22 55	23 15
	HD 153345	16 53.9	+52 52	"	"	"	+8.0	23 24	23 54
	<i>Faint</i>	<i>Faint</i>	<i>0913</i>						

Transparency Conditions

Temp.....

Temp.....

Ending Time
E.S.T.

Angle and	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
		0	5.8	A0		set Ecl. Bin N-luc & fainter & probably the correct star	
	83 38				6-6	5	
14 W						9	
52 E	52 45	0	7.2	A0	4-4-4	set 2 Ecl. Bin for Wn 15/10 " 8	Cld in Sat and night Fog up and part of night
						4 P.H. + 1 H.M.	
						0200 Cloudy since midnight	

325

Date Juillet, May 12, 1953 Observer RK Julian Day 2435.595

041 28 25.1 3490.6

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.
23104	30 Sec	10 252	-0 02	I-25	E103-KC	net 0.08	+15.2	20 53	20 54
								20 54	20 56
								20 57	21 01
								21 02	21 10
23105	HD 126053	14 181	+1 43	"	"	"		21 39	22 39
23106	4 Uru	14 220	-1 47					22 14	22 24
23107	HD 152295	16 320	+52 52				11.0	22 42	23 22
23108	HD 150682 B 4347	16 370	-27 02	"	"	"	12.2	23 51	00 11

Transparency Conditions

cloudy after sunset - poor 326

die Temp.....

cs..... 15.6.55.....

die Temp.....

Ending Time EST.	Angle nd	Declination	Seeing	Ptg. Mag.	Sp.	Comp.		REMARKS	Quality
				48	BCV		at 1	1 m MK Sed.	
							4	3	
						12	7	4	fine
	CUV	-1 25	0				10		
U	SE	+1 29	0	68	BO	4-4-4	2	21 12 m height (-100) with 4 m of H ₂ O, 5 sec with cloud	good
U	SE	-2 00	0	54	BEV	6-6	8		good
U	SE	52 45	0	71	A	4-4-4	2	horizontal, undisturbed the cul line	fine
U	SE	26 59	0	83	FE	4-4-4	2	0.5 sec. bin	fine

Sky clearing over.

4 P.M. 0^s + 8

MC	SC	MTW	STW	S	SW	ME
4	+30.8 ^s	+3.7 ^s	-31.7 ^s	-2m	+43.9 ^s	-10.4 ^s
						+5.2 ^s

327

Date Fri Sat May 4-5, 1958 Observer O - H Julian Day 243559.8

0 44 22 52.5 3486.3

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.
23109	HP 43818	6 13.2	+23 30	J-25	E103a-0	^{cut} 008	+7.8	20 05	20 37
23110	⊙ Gem	6 46.2	+34 05	"	"	"		20 44	20 45
	"							20 46	20 46
	"							20 50	20 54
23111	v Gem	7 29.8	+27 07	"	"	"	+7.7	21 06	21 16
	"	"	"	"	"	"		21 16	21 36
23112	HD 79190	9 07.5	+56 02	"	"	"	+7.3	21 43	22 43
23113 ←	HD 153345	16 53.9	+52 52	"	"	"	+7.3	22 58	23 44
23114	⊙ Her	16 37.5	+31 47	"	"	"		23 49	23 50
	"	"	"	"	"	"		23 51	23 53
	"	"	"	"	"	"		23 55	23 59
23115	ADS 9908	15 58.9	+11 42	"	"	"	2.0	00 10	03 10
23116 ←	H.D. 153345	16 53.9	52 52	"	"	"	7.7	03 20	04 10
	<i>Trans</i>	<i>7.2</i>	<i>59.3</i>						

at Temp. +42° F

as 15.545

at Temp.

Transparency Conditions

Clear

328

4963

Ending Time E.S.T.	Angle and	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
20 37	34 W	+23 30	1	6.7	B ₀ II	4-4-4	Set 5 MK. Wring star +4° are exposed on set 2 for a few minutes.	good
20 40			1	3.69	A ₁ II	"	Set 1 1" MK	
20 41	35 W			"	"	12 ^s	5 2"	fine
20 54	38 W	+34 01		"	"		9 4"	
21 0			1	5.7	M ₀ III	6-6	" 2 10" MK	fine
21 3	37 W	+27 00	1	"	"	6-6	" 8 20"	
22 0	15 W	+55 48	1	7.46	A ₀	4-4-4	" 2 KA 8° x 8°	fine
23 2	7 E	+52 46	0-1	7.1	A ₀	4-4-4	" 2 Ecl. Bin for Wn.	fine
23 5				3.46	G ₀ II		" 1 1" OLS	
23 7				"	"	12 ^s	5 2"	fine
23 8	06 E	+31 41		"	"		9 4"	
23 3	14 W	11 32	0	8.08	K ₂	4-4-4	" 2 Vis. Bin	good
04 1	15 W	52 45	0	7.1	A ₀	4-4-4	" 8 Ecl. Bin. Wn.	good
						15/10	" 8	good
							IP.H. +4	Th. cloud at dawn
							H ₁	

329

Hg = James Hogg.

Date ~~Mon - Tues~~ May 28

Observer

MR } - Hr
Hg }

Julian Day 24356.01

047 17 07-0 3481.9

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.
23117	ρ Leo	10 27.5	+09 49	I-12 ²	103a-0	.016		20:28	-
	"	"	"	"	"	"		-	-
	"	"	"	"	"	"		-	20:31
23118	BD +44° 1904	9 41.0	+44° 42'	"	"	"	+9.0°C	20 46	22, 26
23119	SO UMa	13 21.2	+55 31	"	"	.008	+9.2	20 38	-
	"	"	"	"	"	"	"	-	-
	"	"	"	"	"	"	"	-	20 42
23119	BD +45° 2137	13 50.1	+45 13	"	"	"	9.2°C	22 51	00 51
→ 23120	" +45° 2144	15 48.6	45 00	"	"	"	9.2	00 58	03 18
23121	H.D. 153245	16 53.9	52 52	"	"	0.08	9.0	03 30	03 50

air Temp. +40°F

air Temp. 12.915

air Temp.

Transparency Conditions

330

May 7 Changed to 12 1/2" Camera

25" was tilt 23.15 focus 15.545

12 1/2" focus tilt 20.35

Ending Time E.S.T.	Angle ad	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
-	47W	+09 31	0	3.6	B0	3	set 2 exp 8 ^s B-Type Std. val.	
-	"	"	"	"	"	3	5 15 ^s	fine
23.8	47W	"	"	"	"	3	8 30 ^s	
22.2	27W	+44 27	0	9.39	A5	1-1-1	set 2 KAFS 29-311	fine
22.2	47W	55 14	0	4.17	A5V	-	set 3 exp 15^s (set 1 & 2 sets have	
22.2	"	"	"	"	"	-	set 7 30^s 15 ^s + 30 ^s = 45 ^s by mistake	
22.2	"	"	"	"	"	L	set 9 60^s no plate in plateholder!!	
22.2	15W	+45 55	0	9.57	F6	1-1-1	set 8 KAFS 33-344 MC SC MTW STW S SW ME	fine
08	24W	44 49	0	9.67	F3	1-1-1	set 2 KAFS May 7 +29.4 +1.3 +5.0 +.2" +45.2 +18.4 +4.3	sharp
07.5	2W	52 44	0	7.2	A0	2-2-2	set 8 KAFS 33-344 on 2	strong
						8/6	Sat May 5 225± visitors - MR/OK	OK
							sky covered with thin clouds. Shw & Jupiter.	
							3 RASC telescopes	
							L: Fuse for shutter opening mkt in. will open & lock on Sat & again Mon, how it has 2 15-amp mounts in it.	

IRH. Photos Needed
H. M.

331

Date Tues May 8-9/56 Observer L-KR - Mo. Julian Day 2475.602
048 15 08-9 3480.5

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.
23122	BD+44° 2112	11 33.2	44 39	I-12 $\frac{1}{2}$	E-103A	set 016	+9.8	20 36	23 26
23123	HD 131381	14 48.2	45 35	"	"	"	+9.7	23 29	01 39
23124	HD 142592	15 50.3	+46 15	"	"	"		01 47	01 49
23124	HD 142592	15 50.3	+45 15	"	"	"	+9.9	01 53	03 22
23125	HD 157297	17 17.3	+11 47	"	"	0.008	+9.5	03 39	04 01
	Focus Test	O.T.B.		"	"	"	+9.5		

Air Temp. 45°F

W.S. 12.915

Sea Temp. +34°F

Transparency Conditions Excellent.

332

Ending Time E.S.T.	Angle ad	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality																												
23 20	40W	44 19	0	9.65	F7	1-1-1	Set 2 KA prog. (KAFS)	good																												
01 30	40W	45 21	0	9.68	F8	1-1-1	" "	fine																												
0 25			0	9.25	A0	1-2	" "	Wrong star																												
0 22	24W	+45 04	0	9.25	A0	1-1-1	" "	Incidental captured																												
								Clouds coming from west.																												
	32W	+11 44	1	7.08	A0	2-2-2	" 2 KA 8x8° through cloud.	fine																												
						8-6	" 10	OK																												
							2 PH loaded																													
							Decl. Slow Motion gave up during last exposure.																													
							<table border="0"> <tr> <td>MC</td> <td>SC</td> <td>HTW</td> <td>STW</td> <td>.S</td> <td>SW</td> <td>ME</td> </tr> <tr> <td>May 11^b +34.0</td> <td>00</td> <td>+9.9^s</td> <td>+1.1^m</td> <td>-14.5^s</td> <td>-2.5^s</td> <td>+1.5^s</td> </tr> <tr> <td>May 11</td> <td>+35.6^s</td> <td>+1.1^s</td> <td>+12.5^s</td> <td>+1.3^m</td> <td>-11.2^s</td> <td>+26.0^s</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>-1.6^s</td> </tr> </table>	MC	SC	HTW	STW	.S	SW	ME	May 11 ^b +34.0	00	+9.9 ^s	+1.1 ^m	-14.5 ^s	-2.5 ^s	+1.5 ^s	May 11	+35.6 ^s	+1.1 ^s	+12.5 ^s	+1.3 ^m	-11.2 ^s	+26.0 ^s							-1.6 ^s	
MC	SC	HTW	STW	.S	SW	ME																														
May 11 ^b +34.0	00	+9.9 ^s	+1.1 ^m	-14.5 ^s	-2.5 ^s	+1.5 ^s																														
May 11	+35.6 ^s	+1.1 ^s	+12.5 ^s	+1.3 ^m	-11.2 ^s	+26.0 ^s																														
						-1.6 ^s																														

333 Lo = Philip Locke

Date Mon - Tues May 14/15 1956 Observer MR - HV Julian Day 2435.608

0 54 02 47.4 3470.5

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.
23126	p heo	10 ^h 27.5 ^m	+09 49'	I-12 1/2	1030-0	0.16	17.0	20:23	-
	"	"	"	"	"	"	"	-	-
	"	"	"	"	"	"	"	-	20:25
23127	BD +45° 18 59	10 38.3	+45 12	"	"	"	"	20:42	22:54
23128	BD UMa	13 21.2	+55 31	"	"	0.16	18.4	23:03	-
	"	"	"	"	"	"	"	-	-
	"	"	"	"	"	"	"	-	23:26
23129	HD 121933	13 53.5	+45 39	"	"	0.16	"	23:15	00:45
23130	BD +45° 23 44	15 48.6	+45 00	"	"	"	17.9	00:50	03:40

Temp. +54°F
 12.915
 Temp.

Transparency Conditions

Sat May 12. Rain. about 25 visitors. gave
 lecture on sun + showed telescope.
 Hd - Lo - Bk.

Ending Time E.S.T.	Angle hd	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
-	09W	09° 33'	0	36	B0	3	set 2 exp 8 ^s B-star std. ref.	
-	-	"	"	"	"	3	set 5 " 16 ^s	fine
20:55	08W	"	"	"	"	3	set 8 " 30 ^s	
21:00	25W	44 56	"	9.59	F4	1-1-1	set 2 KAFS 30-317	{ Drift by luck, work PA star within 5" of wire of 3
-	-	-	"	4.17	ASV	-	set 2 exp 15 ^s	
-	056W	-	"	"	"	6	set 5 " 30 ^s	fine
-	057W	-	"	"	"	-	set 8 " 60 ^s	
-	45	42	"	9.28	F3	1-1-1	set 8 KAFS 33-387	fine
-	47	47	00	9.57	F ₂	1-1-1	" 2	fine
						1/3		OK

May 10/56 MC 6c MTW 5TW 5 SW ME
 +35.0 +5.6 +13.5 +0.2 -1.5 +30.4 +26.9

335

16/17th

Date Wed, June, May 18/19 1952 Observer Wm - H. Julian Day 2435.610

055 58 26.6 3466.9

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.
23131	BD +45° 1763	9 ^h 40.4	+45° 32'	I-12 $\frac{1}{2}$	1030-0	.016	+6.2	20 ^h 44 ^m	23 ^h 45
23132	HD 153 345	16 ^h 53.9	+52° 52'	"	"	.008	+6.3	00 01	00 21
	"	"	"	"	"		6.6	00 22	00 34
23133	HD 143585	15 56.2	30 23	"	"	.016	5.9	00 51	03 41
	<i>7</i>	<i>7</i>	<i>078</i>						

Temp. +43°

Temp. +37°

Transparency Conditions Excellent

338

200 Visitors Showed 24 with 74", D with 5"
R.A.S.C. telescopes on lawn N, Mo.

Ending Time L.S.T. Ed	Angle Ed	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
22:20		+02 56	1	4.0	B5SSG	1-3	Set 2 15 ^s B. Std Vel.	work
22:25				"		3	5 30 ^s "	work
22:30	53E			"		3	8 60 ^s "	good
23:00		-13 34	0			1-2	2. Wrong Star	The finder was blocked off; I took the only star in the 74" eyepiece I grabbed and I lost!!
07:40	3W	-13 31	0	10.24	Bo.sJa	1-1-1	8 correct Star. OB Prog	good
						4/3	5	Not done
							PH IPH	
							May 22 nd /56	
		MC	SC	M7W	STW	S	SW	ME
		3		5	5	5	5	5
		10.9	153.8	-21.3	.3	-8.9	-37.4	-20.9

339

L₀Date ~~Wed-Thurs~~ May 23-24, 1956 Observer O - H_v Julian Day 2435617

0 62 42 21.8 3456.4

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.
23136	α Dra	14 01.7	+64 51	I-12	E103a0	ST .008	+9.8	20 51	Midall
	"	"	"					20 53	"
	"	"	"					20 54	Midall
	"	"	"					20 55	20 57
23137	γ Boo	14 28.1	+38 45	"	"	"		21 24	21 24
	"							21 24	25
	"							21 25.5	26.5
	"							21 27	21
→ 23138	HD 153345	16 53.9	+52 52	"	"	"	+10.2	21 48	22 22
23139 ←	HD 117845	13 27.9	+59 27	"	"	"	10.0	22 54	00 28
23140	HD 173987	18 43.2	-06 39	"	"	.016	9.8	00 56	02 56
→ 23141	HD 153345	16 53.9	52 52	"	"	.008	9.4	03 02	03 40
	HD 153345	16 53.9	52 52			.008			

Temp. +33°

cu. 12.918

Temp.

Transparency Conditions *Clear*

340

Aurora Alto. Mid night.

14564

Ending Hour E.S. 51	angle	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
			0-	3.59	A0II		2.7 1 MK. 15' Down cables slipping badly,	
							4 30'	<i>fine</i>
						6 ^s	9 1"	
20	41°E	54 36					10 2"	
				3.22	A7III		" 1 MK 15'	
							4 30'	<i>fine</i>
						6"	7 1"	
	10E	38 26	-1				10 2" Dec slow motion slipping	
22	42E	+52 44	-1	7.1	A0	2-2-2	" 2	<i>fine</i>
00	9W	59 "	-1	8.36	F8p	2-2-2	" 2 KAFS 14 # 133	<i>fine</i>
02	02W	-06 30	-1	9.28	BosIa	1-1-1	" 2 OB	<i>fine</i>
03	22W	52 44	-1	7.1	A0	2-2-2	" 8	<i>fine</i>
						2/6	" 8	<i>fine</i>
							from M.	
							2.1.1 - <i>fine</i>	

341

Date Thurs. May 24-25 1956 Observer Lo - H Julian Day 24356.18

063 39 58.2 3455.3

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.
23142	θ Leonis	11 09.0	+15 59	I-12	E103a0	.008	10.3	20 33.7	
	"							34.6	
								36	
								20 38	20 39
23143	HD 92124	10 33.1	45 22	I-12	"	-016	10.3	20 58	23 18
23144	HD 127326	14 26.0	25 33	"	"	"	10.1	23 28	01 00
23145	BD -0° 3584	18 48.4	-00 41	"	"	"	10.1	01 15	03 35
	<i>from</i>	<i>2.1</i>	<i>07.6</i>						

Temp. 42°
 12 9.6
 Temp.

O. Lo
 Sat May 26 110 visitors - cloudy.

Transparency Conditions Clear

342

Clear & bright
 20-10

" very bright after midnight.

Ending Angle E.S.P. Mag.	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
	15 40	0	3.36	A _{2V}		1 MK 5'	
					6 4	10'	
					7	20'	fine
					9	40'	
01 21 22							
01 21 36	45 03	0	7.76	K ₅	1-1-1	2 KAFS 105 m	fine
01 22 7W	25 18	0+	7.4	G ₅	1-1-1	2 AG mag.	strong
03 20 W	-00 37	0-1	7.96	O ₈	1-1-1	" 2 O.B. Sky almost as bright as star	good
					4/3	" 8 Clock running very poorly.	OK
						2 P.H. in fringe	
						H. on M.	
						FRIDAY MAY 25 th	
						SC	MTW
						+43.4	-10.9 ^S

Temp. 56°F

Transparency Conditions Good, some haze

344

12.916

Temp. 48°F

Ending Time E.S.T.	Angle ad	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
23 23	47W	44 54	0	9.59	F4	1-1-1	Set 2 KA.F.S.	low
23 50	52E	52 46	0-1	7.1	A0	2-2-2	Set 2 Binary	strong
23 57	18W	44 24	0	7.22	22	1-1-1	Set 8 KA.F.S.	fine
23 58	42W	52 45	0	7.1	A0	2-2-2	8 Wubie	strong

4 RH + 8

MONDAY MAY 28th

MC	SC	NW	STW	S	SW	ME
+1.2 ^s	+51.3 ^s	-8.2 ^s	+0.8 ^s	+51.5 ^s	+43.3 ^s	-11.8 ^s

345

Date Mon. July 29 1956 Observer MR - H Julian Day 2435.622

067 30 12.7 3451.1

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.
23150	HD 95866	10 ^h 58.6	+59° 27'	I-12 $\frac{1}{2}$	103-A	.016	+16.3C	20:55	22:55
23151	HD 153345	16 53.9	+52 52	"	"	.008	+15.8	23:06	23:36
23152	J Her	16 16.7	+46 33	"	"	"	+15.4	23:46	—
	"	"	"	"	"	"	"	—	—
	"	"	"	"	"	"	"	—	—
	"	"	"	"	"	"	"	—	23:52
23153	BD +27° 3438	19 38.1	28 46	"	"	.016	15.4	01 03	02 31
23154	BD +27° 3512	19 42.6	28 00	"	"	"	15.2	02 37	03 39

Temp. +55°F

Transparency Conditions *good near zenith
hazy & obs all around horizon*

346

Ending Time EST.	Angle nd	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
22:00	4 ^m W	+59° 07'	0	9.86	G3	1-1-1	set 2 KAFS 13-117	<i>fine</i>
22:30	9 E	+52 46	0	7.2	A0	2-2-2	set 5 Wellmann binary (set 2 has 1 ^m slit 016)	<i>strong</i>
-	-	+46 25	0	3.73	B5 II	-	set 1 155 OK MK.	
-	-	"	"	"	"	-	4 30	<i>fine</i>
-	-	"	"	"	"	6	7 1 ^m	
23:00	6 E	"	"	"	"	-	9 2 ^m	
00:30	7 E	28 53	00	8.7	B ₂ IV	1-1-1	" 2 O.B. Prog.	<i>fine</i>
01:30	06 W	28 07	0	2.6	07	1-1-1	" 8 "	<i>fine</i>
						4/3	" 5 "	<i>OK</i>

*H.P.H. + 4 m long
H-m-M.*

Wed May 30

mc	sc	MTW	STW	S	SW	ME
^s -0.4	+50.0 ^s	^s -8.2	^m -0.2	^s -9.0	^s +67.8	^s -18.6

Fri. June 1

^s -2.1	+47.0 ^s	^s -0.8	^m -0.1	^s -11.0	^s +32.0	^s +44.5
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Transparency Conditions

e Temp.....

s.....

e Temp.....

June 6

changed to
25" Camera

12 1/2" was Focus 12.916
Tilt 20.35
25" is Focus 15.687
Tilt 23.15

Ending Time
E.S.T.Angle
and

Declination

Seeing

Ptg.
Mag.

Sp.

Comp.

REMARKS

Quality

32/20 Set 1/2
24 Set 3 1/2
16 Set 6 1/2
32 Set 9 1/2

Mon. Jun. 4.

MC, SC, MTW, STW, S, SW, ME

-2.0 +45.8 +8.9 -0.15 -9.9 +70.3 -15.7

Jun. 6 -2.5 +41.3 +7.1 +0.05 -9.7 +42.4 +28.9

Sat June 2 - 48 visitors - cloudy
lecture in the Moon - MR, Hg

349

Hd

Hd

Date Thurs - Fri June 7/8, 1956Observer MoJulian Day 2435.632

077 04 49.7 3443.8

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp. +25.0	Starting Time E.S.T.	Ending Time E.S.T.
23155	8 Scorpii	15 54.4	-22 ²⁰ 50	I-25	Kodak	0.008		21 29 10	21 30 10
								21 34 04	21 36 04
								21 38 06	21 42 06
	Focus Test						+28.0		
23156	B oph	1950	1950	I-25	Kodak	008		22 10 20	
23156	B oph	17 15.9	-24 57		E103a-0	008		22 21 20	22 25 20
								29 14	33 34
								34 55	39 55
23157	B oph	"	"					41 32	46 32
								22 48 05	53 05
								53 45	23 05 15
							+26.2	01 08	06 08
								07 00	12 00
23158	B oph	"	"					23 13 10	23 19 10
								10 14	24 14
								25 25	30 25
							+26.0	31 02	36 02

Correction to location
Clock is +1m 54s
This should be added
to the recorded times.

Temp. 15.765
 15.788
 Temp.

15.765
 .022
 15.788

Transparency Conditions Poor at horizon

350

Ending Time E.S.T.	Angle and	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
			1?	2.21	B0	32	Set 1/2	weak
						32	3 1/2	weak
	26 E	at correct time of 21 ^h 44 ^m 00 ^s				32	6 1/2	weak
						32-20	9 1/2	strong
							Set 1/2 for Van Hoog	
	03 ^m 5 E	-24 57		3.07	B3	12	1/2	This plate developed weak
						12	3 1/2	good
						12	6 1/2	good
						12	9 1/2	good
	5 20 E					12	1/2	good
						12	3 1/2	"
						12	6 1/2	"
						12	9 1/2	"
	15 E		1 1/2			12	1/2	good
						12	3 1/2	good
						12	6 1/2	fair
						12	9 1/2	fair

Turned off heat.

351

Date June 7/8, cont Observer Hd Julian Day 2435632

0 77 04 49.7 3443.8

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.
23159	θ Oph	17 15.9	-24 54	I-25	E103-a-0	.008		23 37 12	23 42 16
								43 07	48 07
								48 52	53 52
								54 42	59 42
23160	θ Oph.							00 00 45	00 05 45
								06 18	11 45
								12 20	17 45
23161	"						25.0	18 02	23 02
								24 02	29 02
								32 02	37 02
								36 02	41 02
								41 32	46 32
23162	"						24.8	47 32	52 32
								52 32	57 32
								00 52 42	01 02 42
								04 32	09 32

die Temp. 67° at 00-5 47

Transparency Conditions

352

33.....

see Temp.....

43-8

Ending Time E.S.T.	Angle and	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
01	46 09 E			3.07	B3	12	set 1/2	fine
						12	3 1/2	"
						12	6 1/2	"
						12	9 1/2	"
05	22 40 E					12	1/2	fine
						12	3 1/2	"
						12	6 1/2	"
						12	9 1/2	"
						12	1/2	good
						12	3 1/2	"
						12	6 1/2	"
						12	9 1/2	"
						12	1/2	good
						12	3 1/2	good
						12	6 1/2	and
						12	9 1/2	and

at 00 38 25 H-L 0010W

Seeing Worse

353

Date

June 7/8 1952

Observer

H₂
H₂

Julian Day

24356.32

077 04 49.7 3443.8

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.
23163	θ Oph.	17 15.9	-24 54	E-25	E10320	008		01 10 ²³	01 15 ²³
								15 ⁵⁴	20 ⁵⁴
							+24.2	21 ²⁶	26 ²⁶
23164	HD 154520	1700.9	-77 48	"	"	"	23.2	02 04	02 40
	HD 178619								
23165	+10° 375R	1904.2	+16 42	"	"	"	23.0	02 34	03 26
	Times 7.5		07.35				"		

Dne Temp.....

Transparency Conditions

Fois.....

Dne Temp.....

43-8

Ending Factor: E.S.T	Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality														
	58 W			3.07	B3	12	5-1 <	weak														
						12	3 1/2	weak														
		-24 57				12	9 1/2	weak														
	7 W	+77 45	00	6.7	A0	4-4-4	" 2 Spect Bin. in N. Tel. East.	weak														
	W	+16 48	0	6.9	F5	4-8	" 2 Ech. Bin. P. g.	too weak														
						15/10	" 3 0300 Haze + Thin Cloud	OK														
2 P.H. in flight																						
June 9.																						
<table border="0"> <tr> <td>MC</td> <td>SC</td> <td>MTW</td> <td>ETW</td> <td>S</td> <td>SW</td> <td>ME</td> </tr> <tr> <td>-2.3</td> <td>+30.9</td> <td>-12.1</td> <td>-0.2</td> <td>-9.1</td> <td>+31.8</td> <td>-44.8</td> </tr> </table>									MC	SC	MTW	ETW	S	SW	ME	-2.3	+30.9	-12.1	-0.2	-9.1	+31.8	-44.8
MC	SC	MTW	ETW	S	SW	ME																
-2.3	+30.9	-12.1	-0.2	-9.1	+31.8	-44.8																

355

Date Fri/Sat, 1956 June 8/9

Observer Wm

Julian Day

078 02 13.5 3442.9

2435633

// add 2.8 min
to all of these times

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.
23 166	♂ Sco	15 ^h 54.4	-22° 20'	I-15	14 speed	.008	+23.7	21 ^h 0 ^m	21 ^h 1
	"							5.5	7.5
	"							11.5	15.5
	Film test								
23 167	♂ Oph	17 ^h 15.9	-24° 54'	"	H1 speed	.008	+23.8	22 03	09
	"							11.3	17.4
	"							18.6	24.6
	"							25.5	31.5
23 168	♂ Oph				"			33	39.5
	"							42.2	48.3
	"							49.7	55.7
	"							57.2	23 3.4
23 169	♂ Oph				"			23 4.5	23 10.5
	"							23 15.5	23 17.5
	"							23 19.2	24.5
	"						+23.6	26.0	32.5

Date Temp. 68°F

Date 15.765

Date Temp.

Transparency Conditions medium in peak
horizon pretty hazy

356

Correction to both declination clocks: + 2"

Ending Time E.S.T.	Angle and	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
		-22° 28'	1-00	2.21	B0	32 ^s	4 1/2	
						32	5 1/2	fine
						32	6 1/2	
						10 1/2	9 1/2	plate developed immediately after exposure
	48 15 ^m E at correct time of 21° 17.5'							
	57° E	-22° 51'	0	3.07	B3	32	4 1/2	few clouds
						32	3 1/2	"
						32	6 1/2	"
						32	9 1/2	plate developed
	27 E					32	4 1/2	plate de
						32	3 1/2	"
						32	6 1/2	"
						24	9 1/2	"
	27 E		0			24	1 1/2	good
						24	3 1/2	"
						24	6 1/2	"
						24	9 1/2	"

Date Temp.....

Focs.....

Date Temp. 63

Ending Position E.S.T.	Angle and	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
023	57E		0-1	3.07	B3	24 ^s	set 1/2	fine
						24 ^s	3 1/2	"
						24 ^s	6 1/2	"
						24 ^s	9 1/2	"
009	57E	-24° 52'				24 ^s	set 1/2	fine
						24 ^s	3 1/2 clouds near star, and over the star, ^{low} _{sun}	"
						24 ^s	6 1/2 clouds present	good
						24 ^s	9 1/2	fine
009	21W					24 ^s	set 1/2	fine
						24	3 1/2	"
						24	6 1/2	"
						24 ^s	set 3 1/2	} PH closed,
						24 ^s	7 1/2	
023	W	52° 44'	0-1	7.2	A ₀	4-f-4	Set 2	strong OK
						15/10	Set 8.	
						clouds	at 2:30	

359 PH 4 ~~loaded with H. spec~~

Date 10/11 June, 1956 ~~Sm/~~ Observer ~~Va~~ - ~~Mo~~ Julian Day 2435.635
 Z L_o clock, counted by DL

© 79 56 58.5 344.2

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.
23174	HD 153345	16 ^h 52.9	+52° 52'	L-25"	103A-0	.008	+26.0	21 ^h 55 ^m	22 ^h 36 ^m
23175	HD 161321 +14° 3329	17 39.8	+14° 27'	"	"	"	"	22 58	23 16
23176	HD 178661 Σ 27614	19 4.4	+38° 46'	"	"	"	+26.0	23 28	00 30
23177	HD 12238	19 11.0	-27° 46'	"	"	"	26.0	00 49	01 14
23178	HD 162957	17 173	+25° 51'	"	"	"	25.8	01 42	02 14
23179	15 Sgc 17 ¹⁹	59.7	+16 48	"	"	"	25.8	2 24	2 34
23180	HD 153305	16 53.9	52 52	L 25"	"	"	25.6	2 53	3 30
	Faint test O.T.B.						25.6		

Aluminized primary
during week of June 11/56

Date Temp. $+70^{\circ}$
 Focus 15.802
 Date Temp. 64°

Sat
 Clouded up
 night after
 visitors

Transparency Conditions *Excellent*

360

Sat June 9-10 Hd-L
 200 specimens showed by mail to
 of RASC telescopes on 9 & 10

Ending RST	Angle hd	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
013	19E	$+52^{\circ} 46'$	0	7.1	A0	4 ^s -4 ^s	Set 2 Ed. Bin. Wn	
02	26E	$+14^{\circ} 27'$	0-	6.2	A3	6 ^s -6 ^s	Set 2 Ed. Bin. Prog.	Weak
03	35E	$+32^{\circ} 50'$	0	7.6	A3	4 ^s -4 ^s	Set 8 " " "	fine
014	00E	27 55	0	6.64	B5	4 ^s -4 ^s	Set 5 Spec Bin	fine
16	5W	25 03	1	6.9	B _{sc}	4-74	Set 2 B _s prog	fine
23	27E	25 56	1	6.1	60	6-6	Set 2 OL5	fine
37	8W	52 45	1	7.1	A0	4-4	Set 8 Ed Bin Wn	
						15-10	" 5	
							PH loaded E103-a-0	
							H. on M.	
							Prog Jun. 11.	
							me, SC, mTW, STW, S, SW, ME.	
							-3.7 +34.8 -30.9 -0.6 ^m -9.9 - -11.8 ^s	
Jun 13							-4.7 +32.1 -33.1 -0.7 ^m -10.4 - -13.2 ^s	
Jun 15							-6.7 +28.4 -31.8 -0.8 ^m -10.4 - -12.8 ^s	
18							-7.1 +26.6 -20.1 -0.4 ^m -9.7 - -9.8	
20							-8.2 +26.5 -16.2 -0.4 ^m +6.3 - -8.8	

1956 June 16-17 Int. N. Mo. Observatory, with some breaks.
 361 Ann. lecture, demonstrated telescope & 3 RASC tel. [unclear]
 about 75-100 visitors.

June 17. Went to class [unclear] from west. Hg.
 Date June 19-20/56 Observer L. Wro Julian Day 2435644
 Tues. Wed. 088 32 36.9 3433-7

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.
23181	HD 153345	16 58.9 ³	52 52	I-12 $\frac{1}{2}$	E 103A ₀	008	20.7	22 01	22 13
	" "	" "	" "	" "	" "	" "	" "	22 14	22 26
23182	" 135 721	15 11.5	60 19	" "	" "	.016	20.1	22 46	
23181F	Focus Sw		O.T.B.						

Temp. +62°F

Transparency Conditions

362

12.916

Temp.

June 15 Changed to
12 1/2" Camera25" Was Focus 5.802
Tilt 23.15 12 1/2" is Focus 12.916
Tilt 20.35

Ending Time E.S.T.	Angle hd	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
22	107E	52 44	0	7.1	A0	4-4	Set 2 Ed. Bin. No.	OK
22	58E	"	0	"	"	3-3	Set 8	OK
		60 03	0	9.60	A8	1-	Set 2 K.A.F.S.	OK
						8/6	Set 8 sky clouding over at 23.10	OK
							2 P.H. loads + 8	

363

Date Thurs June 21-22/56 Observer Hd-Lo Julian Day 243564.6

090 27 03.8 3432.8

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.
23182	HD 153345	16 52.9 ³	52 52	I-12	E03a0	008	25.8	22 41	22 59
23183	HD 168461	18 14.7	-12 13	"	"	016	26.0°	23 14	01 12
23184	HD 219113	23 8.3	+ 2° 8'	"	"	008	26.0°	02 08	03 30
	Focus test	OTB							

Air Temp. 70°F
 Hum. 12.965
 Bar. Temp. 66°F

Transparency Conditions

Fair

364

a few clouds at sunset, then cloudy,
 clearing about 22:10. Light clouds at 22:15
 to wash all night

Ending Time E.S.T.	R Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
22:59	14 ^m	52 45	0	7.2	A0	2-2-2	Set 2 Wn. Sec Bin	fair
01:12	38W	-12 14	0	10.22	08	1-1-	Star off alt at 00:50 - too short 03 p.m., all slow motions in poor shape	weak
02:30	156 ^m	+02 27	0	9.0	G5	2-2-2	set 5 ecl bin (rec) image jumping 2-6 " 9	fair
							3 PH. loaded.	OK
							MC SC MTW STW S SW MG Jun. 22 -10.9 ^s +25.6 -15.8 -0.3 ^m +6.8 ^s +18.8 ^s -8.7 ^s	

Sat. June 23 MR, Hg 35 visitors
 Lecture in D. 100% cloudy

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

Mus. 12.965

Dne Temp.

Transparency Conditions *between clouds*

366

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
22 ^h 18 ^m	042.5 E	+52° 44'	0	7.2	A0	2 ^s -2 ^s -2 ^s Alt. 2 8 ^s -8 ^s Alt 9	Ecl. Bin. Un.	0.4.
							overcast again	
							Jun. 26 MC SC MTW STW S SW ME -12.3 +24.6 -12.1 -0.3 ^m +7.8 +61.5 -8.2	

367

McA

Date Mon June 1956 June 25²⁵²⁶ Observer MR - Hg Julian Day 2435650

094 15 52.9 3431.7

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.
23186	HD 153345	16 ^h 53.9	+52° 52'	I-12	103a-0	set 008	22.0	21:04	21:30
23187	HD 127336	14 ^h 26.0	+25° 33'	"	"	set 015	22.0	21:42	23:14
23188	BD+28°3485	19 44.9	+28° 34'	"	"	"	22.0	23:25	00:23
23189	HD 153345	16 ^h 53.9	+52° 52'	"	"	set 008	21.9	00:59	01:29
	Focus test	078							

Air Temp... 65°F

McA - McAlpine, veslin

Transparency Conditions

368

Humidity

Tumble opening shutter

Air Temp... 58°

Ending Time
E.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
21:30 26 E	52° 45'	0-	7.2	A ₀	2-2-2	Set 2 Spec bin. Wa	strong
23:14 44 W	25 18	0	9.4	F2	1-1-1	Set 2 Spec bin.	strong
23:41 65 E	23 41	0	9.1	B2V	1-1-1	Set 2 OB p. 76 quite cloudy	fine
01:15 33 E 33 W	52° 45'	0	7.2	A ₀	2-2-2	Set 8 Spec Bin three light clouds 816 a bit too weak	strong
						in Cloudy at 1:45 3 PM	

369

Date 1956 Jun 26-27 Tue-Wed Observer Mo

Julian Day 2435651

095 13 04.6 3431.7

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp. +23.9	Starting Time E.S.T.	Ending Time E.S.T.
23190.	HD 153345	16 53.9	+52 52	I-12 $\frac{1}{2}$	E103a-O	0.008	+24.0	20 59	21 19
	β^2 Scorpii	15 59.6	19 32	"	"	"	"		45 ^s
	Focus test	O.T.B					+23.9		

One Temp... +67°F

Hum... 12.966

One Temp... +65°

Transparency Conditions ... Prev ...

370

Ending Time E.S.T.	Star Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
21 19	34 E	+52 44	0-	7.2	A0	2-2-2	Set 2 Through thin clouds. Clouded out.	lunch OK OK.
						8-6	" 8 Increased voltage from 100V. to 110V When standing on the platform I could not push the telescope in declination. Hence it is not quite resting on the platform.	
						Jun. 27	MC SC NW SW S SW NE -14.7 +24.9 -20.1 -0.5" +7.7 +98.5 -9.4	

One Temp. +65°F

Two 15.724

One Temp.

Transparency Conditions

372

June 27 changed to 25" camera
 12 1/2" Was Focus 12.967
 25" is Focus 15.739
 Silt 20.35 Silt 23.15

Ending Time E.S.T.	Bur Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
21:00	50.5 E	+52° 45'	0+	7.2	40	4 ^s -4 ^s -4 ^s	Let 2 Ed. Bin. Var. Cloudy but for a few open areas. Has occasionally covered by clouds	fair
21:20	32 E	"	7-0	"	"	4 ^s -4 ^s -4 ^s	Let 8 Setting machine did not work. Reconn. corrected contact in focus box	good
21:40	28 E	+27° 52'	0	6.64	25	4 ^s -4 ^s -4 ^s	Let 2 Spec. Bin. Through thin cirrus transparency decreasing gradually sky clouding over completely 23 ^h 30	good
						10 ^s -7 ^s	Done about 23 ^h 45	cloud slightly
							2 P.H. loaded	

Sat June 30
373

S-Hg

Cloudy at first clearing somewhat. Stand E Bar and 2 1/2" 74"
Sun 2 pm. 200 miles near Salami. Small bluish on top & bright yellow
about 150 miles.

Jul. 1.

Date Sat Sun Jan 30 1900 Observer S. L. Julian Day 2435655

099 01 51.5 3432.1

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.
23193	HD 153345	16 53.9	+52 52	I-25	E-10320	set	23.1	23 04	00 00
23194	72 Her	17 16.9	+32 36	I-25	"	.008	23.0	00 20	00 26
						.008		00 27	00 37
								00 38	00 56
23195	HD 180316	19 11.0	+ 27 46	"	"	.008		01 09	01 25
23196	B4507 HD 162132	17 44.4	+47 38.9	"	"	.008	22.8	1 46.5	02 03
23197	AD 190495	20 20.8	21 10	"	"	.008			
23193	HD 153345	16 53.9	+52 52				22.8	02 21	03 01
23197	HD 193536 1515 3139	20 15.6	4600		"			03 16	03 19
"	"							03 19	03 25
23198	"							03 30	3 42
	Footprint		2174						

Time Temp. 67°
 Fus. 15.757
 Time Temp. 64°

Transparency Conditions

374

hazy and cloudy
 intermittently

Ending Time E.S.T.	Bur Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality	
	32 W	+52 45	0	7.2	A ₀	4.4-4	Ecl Bin Set 2	Three clouds, * covered a few	fine
02:00	12 W	+32 30	0 ⁺	6.0	G ₀ V		OLS prog. Set 2		fine
03:00	15 W					4-7	Set 5		fine
04:00							Set 9		
	52 W	7 52	0 ⁺	6.6	B ₅	4	Sp Bin Set 2		good
	37 W	47 38	0 ⁻	6.4	A ₂	4.4-4	Ecl Bin Set 1	30° cloud to reach	good
						3.9	Set 8		
	25 W	52 46	0 ⁻	7.2	A ₀	4-4.4	Bin Set 8	marked by	good
	7 W	46 11	0	6.1	B ₂	6-6	Ecl Bin Set 5	too short.	too weak
	"	"				6-6	Set 9	" "	" "
	5 W	"				4-8	Ecl Bin Set 2		too weak
						10-7	0		OK
							3 PH		

I calculate 0° 31' W
 at 01° 25' EST

calculate 1° 21' W at 03° 19' EST
 and 1° 44' W at 03° 42'

375

Date Mon-Tues July 2-3Observer Lo - PKJulian Day 2435.657

① 100 56 15.8 3432.5

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.
[23 199	ADS 8516	12 15.2	+38 27	I-25	103-20-508		27.3	21 04	21 54	
[23 200	ADS 8489	12 11.1	+41 13	"	"	"	24.6	22 02	22 38	
23 201	HD 153345	16 53.9	+52 52	"	"	"	30.2	22 56	23 26	
23 202	ADS 7539	15 09.5	+48 57	"	"	"	30.2	23 37	00 57	
	ADS 11271	18 15.9	+02 40	"	"	"				

Eme Temp. 74° F

Pres. 15-.805

Eme Temp.

Transparency Conditions *exceptional*

light clouds passed at 2215

376

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
215- 7 12W	+38°07	1"	7.63	K ₀	4-4+	Vis Bin Set 2	<i>impaired</i>
237 7 52W	48°58	1"	7.01	K ₅	4-4-4	Bin fainter Set 8 <i>plywood sticks fell in at 2205</i>	"
58 58	52°45	1"	7.2	A ₀	4-4-4	Ecl bin WN Set 2 <i>20% to compensate</i>	<i>fine</i>
5 50	52°4	1"	8.06	K ₀	4-4-4	Vis Bin Set 2 <i>from 0.15 cloudy Found ... loose!!</i>	<i>good</i>
			5.24 6.5				
						<i>closed at 2 o'clock</i>	
						<i>4 ft. headed</i>	
						<i>July 3</i>	
						mc SC MTW STW S SW ME	
						-20.0 +23.0 -55.2 -0.4" +8.8 +169.3 -8.4	

377

Date 1956 Jul. 3-4 Tue.-Wed. Observer S-L-Mo Julian Day 2435.658

Plate No.	Object	R.A. 1900 1955	Declination -1900 1955	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	Angle incl.
23203	NGC 5904	15 16.2	+02 15	Newtonian	E103a-O		3 ^m	h m s 21 20 05	h m s 21 23 05	37°
23204	5024	13 10.8	+18 24				6 ^m	21 28 45	21 34 45	35°W
23205	6205	16 40.1	+36 32				2 ^m	21 40 56	21 42 56	21°E
23206	6229	16 45.7	+47 36				2 ^m	21 49 43	21 51 43	34°E
23207	6229	16 45.7	+47 36				8 ^m	21 53 48	22 01 48	4°E
23208	5897	15 14.9	-20 50				10 ^m	22 11 31	22 18 07	34°W
23209	6254	16 54.8	-04 02				4 ^m	22 41 53	22 51 53	33°E
23210	6218	16 44.9	-01 53				6 ^m	22 56 19	23 02 19	28°W
23211	6838	17 51.5	+18 39				6 ^m	23 13 28	23 19 28	1°E
23212	6535	18 01.6	-00 18				24 ^m	23 38 00	00 02 00	2°W
23213	6366	17 25.4	-05 02				16	00 12 57	00 28 57	18°E
23214	6342	17 18.5	-19 32				24	00 32 08	00 56 08	35°W
	6626	18 21.8	-24 54							
	6712	18 50.6					8			

Dne Temp... +70° F

Fus.....

Dne Temp... +64°

Transparency Conditions Much thin cloud at beginning 378

Correction to S = + 4'

Ending Time E.S.T.	Air Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
21 23	2	37 W					Focussed on α Boo	
21 29	2	55 W						
21 41	2	27 E						
21 52	2	24 E						
22 02	2	14 E					Focussed on κ Oph. Cannot improve focus Clouds ended exposure 4 min too soon.	
22 11	2	34 W					Through a hole in clouds	
22 51	2	28 W					"	
23 00	2	48 W					"	
23 12	2	01 E					" Sky getting worse	
00 00	2	31 W					Focussed " on β Oph	
00 00	2	35 W					Sky best it has been for last hour	
00 50	2	08 W					Cloud bank rose over cluster This one cluster on 100	
							Very poor night	

Dne Temp. $+62^{\circ}$

Transparency Conditions

380

Fus.

Dne Temp.

Correction to $\delta = +4$

Ending Time L.S.T.	Air Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
	50 W						Focused on a supernova.	
	50 W							
	51 W							
	51 E							
	52 W							
	52 E						Focused on a supernova.	
	54 W							
	56 E						Clouds rapidly spreading over sky Heavy haze all night time to 5h, clearing up at 6h. Total obs.	
							July 9. mc sc mtw stw S SW NE	
							-24.3 +22.6 -59.2 -1.25 ^m +9.6 +67.2 -9.2	
							11. -27.7 +21.0 -59.0 -1.05 ^m +10.0 +42.6 -8.2	
							13 -24.7 +21.6 -54.5 -1.0 +9.8 +118.3 -9.8	

381

Tues

Date July 10, -11 1956

Observer L. Gu - 19

Julian Day 2435665

0108 34 01.8 3433.7

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	Angle hd
23223	J (Tau) γ Herc.	16 16.7	46 33	I-25	103a-0	.004	21.5	21 09 ⁰⁰	21 09 ³⁰	
								21 10 ¹⁵	21 11 ¹⁵	
								21 15 ⁰⁰	21 17 ⁰⁰	14E
23224	γ (Gamma) γ Herc.	16 17.5	19 23	I-20	"	"	21.3	21 28 ³⁰	21 29 ⁰⁰	
								21 29 ⁴⁵	21 30 ⁴⁵	
								21 32 ⁰⁰	21 34 ⁰⁰	2W
23225	HD 150682 B 4247	16 37. ⁵	27 07	"	"	"	21.3	21 45	21 55	3W
23226	HD 178661 E 2469A	19 04.4	38 46	"	"	"		22 14	22 50	2E
23227	HD 180398	19 11.3	12 56	"	"	"	21.1	23 06	23 42	33E
23228	HD 183143	19 23.0	18 05	"	"	"	21.1	23 49	00	8
23229	HD 178043 MNC 336	20 12.9	32 09	"	"	"	21.1	00 29	02 05	
23230	HD 178043 MNC 336	20 57	42 40	"	"	"	21.1	01 09	02 05	
23231	HD 153345	16 51	52 52	"	"	"	21.1	01 08	01 57	2W
23232	AD 3 1214E	19 39.3	16 21	"	"	"	21.0	02 05	03 05	
23233	HD 178043 MNC 336	20 57	42 40	"	"	"	21.0	03 05	03 30	
	Focus Day	ATB					20.9			

Due Temp. 67°F
 Feis. 15.734
 Due Temp. 61.2

Transparency Conditions *Some light clouds*

382

Ending Time E.S.T.	Star and	Angle	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
2:37			46 24	0-1	3.73	B-V		Set 1 M.K. <i>Set.</i>	
2:41							12	Set 5	<i>fine</i>
2:47	04E							Set 9	
2:52				0-1	4.00	A ₂ III		Set 1 M.K. <i>Set.</i>	
2:57			19 14				12	Set 5	<i>fine</i>
3:03	12W							Set 9	
3:07	13W	26 59	0-1	6.3	F ₂	4-4-4		Set 2 <i>Eclipse Bin Prog.</i>	<i>fine</i>
3:12	12E	38 51	0+	7.6	A ₃	4-4-4		Set 8 " " "	<i>fine</i>
3:17	13E	13 01	0-1	7.7	B ₃ he	4-4-4		Set 2 Be Proc.	<i>good</i>
3:23	8	18 12	0-1	6.9	B ₃ α	4-4-4		Set 2 Be Prog.	<i>good</i>
3:28	7E	32 14	0-1	7.2	B ₃ cc	4-4-4		Set 3 Be Prog.	<i>fine</i>
3:34	4E	45 59	0	8.2	A ₂ cc	12		Set 2	<i>strong</i>
3:40	4W	52 44	0	7.2	G ₂	4-4-4		Set 2	<i>fine</i>
3:46	4W	12 29	0	7.02	G ₂	4-4-4		Set 2 <i>1/2 Bin</i>	<i>weak</i>
3:51	4E	42 47	0	7.2	A ₂	4-4-4		Set 2 <i>1/2 Bin</i>	<i>strong</i>
						15/16		Set 2	<i>APK</i>

383

Date Sat. - Sun. July 14-15, 1956

Observer

Hd
L - Lo

Julian Day 2435669

①112 22 56.8 3433.8

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.
23234	HD 174 343	18 45.8 ⁰	+49 17	E-25	103 2-0	558	21.3	01 41	01 21
23235	HD 180316	19 11.0	27 46	"	"	"	21.0	01 39	01 59
23236	ADS 12520	19 25.2	02 48 ¹	"	"	"	21.0	02 11	03 25
23237	AUS 15602	22 50.2	32 28 ⁷	"	"	"	21.0	03 32	04 52
	FRONT TEST	DT 18							

Air Temp...

64°

Transparency Conditions

Humidity...

73%

Air Temp...

Ad - Lo

Sat. July 14 about 175 visitors, showed 3 Boo Three clouds. RASC (4 telescopes) showed C, J, K. Sky about 9/10 at 22.30. weather cleared at 00 20 hrs.

Ending Time
E.S.T.

Ending Time E.S.T.	Star Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
01 2	19W	77 20	1	7.3	F ₂	4-4-4	Set 8 Sp Bin	good
02 50	02 00W	29 53	0	6.64	B ₅	4-4-4	Set 2 Sp Bin	good
03 21	03 17W	02 79	0 ⁺	7.9	K ₅	4-4-4	Set 2 Vis Bin ADS small cloud to south 03 20 hrs	weak
04 14	04 14W	32 47	0	6.8	G ₅	4-4-4	Set 8 Vis Bin thin horizontal clouds 03 40 hrs	weak
							Set 1 cloud at 23 40 EST.	
							1 P.H.	
						July 16	mc ec mtw stw s sw me	
							-32.2 +21.3 +18.5 -0.7 +8.8 +37.6 -7.3	

Home Temp. 68°

Focus 15.770

Home Temp. 15.770

15.748

.022

15.770

Transparency Conditions

386

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
	4 10W		0-	7.8	K ₀	4-8 K ₁₁₀	<p>set 2 clouds covered the field 1/2 set 3</p> <p>23.15 still cloudy</p> <p>4 PM.</p> <p>OK DO almost solid</p>	Nothing

Home Temp. 69°F

Focus 15.756

Home Temp.

Transparency Conditions *fair, humid*

388

343

Starting Time EST.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
2 7	5 24W	38 08	0	7.63	K ₀	4-4-4	Set 2 Vis. Bin.	good
3 7	3 58W	48 45	0	8.06	K ₀	4-4-4	Set 3 " "	excellent
0 0	2 11W	27 54	0	6.64	B ₅	4-4-4	" 2 Spec. Binocular	fine
0 52	2 22E	44 47	0+	7.24	A ₅	4-4-4	" 8 " "	fine
1 3	2 34E	42 30	0	7.1	B ₅ W	4-4-4	" 2 Re. Binocular	fine
2 5	3 9W	27 54	0-1	6.64	B ₅	4-4-4	" 8 Spec. Binocular	fine
3 12	2 11W	44 47	0-1	7.26	A ₅	4-4-4	" 1 " "	fine
3 21	4 6W	32 43	1-2	6.90	G ₅	4-4-4	" 5 Spec. Binocular	fine
5 1	3 9W	37 08	0-2	6.5	B ₂	4-4-4	" 2 Gal. Binocular Programme	excellent
						5/10		OK
							3 photos loaded	

Home Temp. +71°F

Transparency Conditions Clear

390

ocus... 15.790

Home Temp.....

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
05 W	+40° 54'	1	7.1	K5	4-4-4	Set 2. Vuo Bin. Guiding difficult for Westl.	good
37 W	+48° 45'	1+	8.06	K0	4-4-4	" 8 " "	fine
		1	5.24	G5	6-6	" 2 4" " "	fine
54 W	+3 22	1	"	"	6-6	8 12" " "	
55 W	+52 45	0	7.1	A0	4-4-4	" 5 Spec Bin. Dome is full of trans smoke	fine
12 W	27 53	0	6.64	B5	4-4-4	" 5 " "	fine
47 W	+03 18	0	7.86	K0	4-4-4	" 5 ADS.	lunch
66 14 W	77 45	0	6.7	A0	4-4-4	" 5 Spect Bin. Telescope reversed	strong.
					15/10	" 9	clear

4 P.M. + 1

July 19	MC	SC	MTW	STW	S	SW	ME
	-34.8	+20.9	+43.0	+0.4	+9.2	+76.9	-5.3
20	-35.5	+19.2	+46.5	+0.5	+10.0	+92.7	-8.8
23	-38.3	+21.5	+53.5	+0.7	+10.2	+130.4	-3.2

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Date Tues. Wed July 24/5 Observer Ma ^{Gu} — Julian Day 2435679
 012 55 28.1 3438.1

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp. 26.0	Starting Time E.S.T.	Ending Time E.S.T.	P.I.
23254	θ Oph.	17 ^h 15.9	-24° 54'	I-25	Hi-speed	CC8		20 39.42	20 45.42	1
	"	"	"	"	"	"		20 46.58	20 52.58	
	"	"	"	"	"	"	26.1	20 53.20	20 59.20	
23255	"	"	"	"	"	"		20 59.47	21 05.47	2
	"	"	"	"	"	"	26.4	21 11.14	21 17.14	
23256	"	"	"	"	"	"		21 17.38	21 23.38	
	"	"	"	"	"	"		21 23.53	21 29.53	
	"	"	"	"	"	"	26.5	21 30.01	21 32.25	16
23257	"	"	"	"	"	"		21 44.22	21 50.22	4
	"	"	"	"	"	"		21 53.05	21 59.05	
	Focus Test	O. T.	B.							

Correction to clock used for these times is -3^s

Home Temp. +74°
 Focus 15.802
 Home Temp. +72°

Sat. July 21
 about 60 vintms
 Saturn through clouds
 15.780
 15.822
 15.802

Transparency Conditions Good, clouds W (land)
 W + G
 392

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
	-24 57	1	3.07	B ₃	18 ^s	10 Saturn li Ring.	weak
	"	1	"	"	18 ^s	5 "	good
20E	"	1+	"	"	18 ^s	9 "	good
"	"	2	"	"	18 ^s	1 "	good
09E -24 57	"	1	"	"	18 ^s	9 "	good
"	"	1	"	"	18 ^s	1 " this cloud	good
"	"	1/2	"	"	18 ^s	5 "	fine
06W -24 57	"	1	"	"	18 ^s	9 * lat at 21 32' 25' increasing cloud	too weak
"	"	0	"	"	18 ^s	1 6 Saturn li Ring through cloud	too weak
31W	"	0	"	"	18 ^s	5 " * lat at 21 32' 25' increasing cloud	weak
					25/15	9	O.K.
						3 Ph 102 a-o +2 1 Ph H. Speed (#1) +1	
Jul. 23	NG	SC	MTW	STW	S	SW	NG
	-40.0	+21.3	+52.0	+0.5	+10.0	+57.5	-6.2.

393

Correction to clock
used for above times
-5'Date Wed-Thurs July 25/26 Observer Gul Mo — Julian Day 2435680

① 122 52 46.2 3438.9

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.E.	Sur Angle
23258	θ Uph.	17 ^h 15.9	-24 54	I-25	Hi-Speed	.008		20 29.17	20 36.17	1	
	"	"	"	"	"	"		20 37.20	20 44.20	1	
	"	"	"	"	"	"	26.5	20 47.40	20 51.40	1	32E
23259	"	"	"	"	"	"		20 53.11	20 57.11	2	
	"	"	"	"	"	"		20 57.8	21 06.10		
	"	"	"	"	"	"	26.6	21 06.20	21 13.30		57E
23260	"	"	"	"	"	"		21 13.33	21 20.33	3	
	"	"	"	"	"	"		21 21.00	21 25.00		
	"	"	"	"	"	"	26.8	21 27.10	21 35.10		30E
23261	"	"	"	"	"	"		21 35.10	21 42.10	4	
	"	"	"	"	"	"		21 43.52	21 45.52		
	"	"	"	"	"	"	26.8	21 50.10	21 57.10		50E
23262	"	"	"	"	"	"		21 57.23	22 06.23	1	
	"	"	"	"	"	"		22 06.37	22 13.37		
	"	"	"	"	"	"		22 14.60	22 21.54		
	"	"	"	"	"	"	26.7	22 21.37	22 28.40		02W

Dome Temp... +73°

Transparency Conditions *fair*

394

Focus... 15.808

Dome Temp.....

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality	
		0	3.07	B ₃	18 ^s	1	G Opti. Prog.	fine
		0	"	"	18 ^s	5	" "	"
32 E	-24 56	0	"	"	18 ^s	9	" "	"
		1/2	"	"	18 ^s	1	" "	fine
		1/2	"	"	18 ^s	5	" "	"
09 E	-24 56	1/2	"	"	18 ^s	9	" "	"
		1/2	"	"	18 ^s	1	" "	fine
		1/2	"	"	18 ^s	5	" "	"
13 W	-24 56	1/2	"	"	18 ^s	9	" "	disturb
		1/2	"	"	18 ^s	1	" "	disturb
		1/2	"	"	18 ^s	5	" "	"
25 W	-24 56	1/2	"	"	18 ^s	9	" "	"
		1/2	"	"	18 ^s	1	" "	strong
		1/2	"	"	18 ^s	4	" "	"
		1/2	"	"	18 ^s	7	" "	"
02 W	-24 56	1/2	"	"	18 ^s	10	" "	good.

395

cont'd

Date Wed-Thurs, July 25/26 Observer Cue } - Hr } Julian Day 2435680
 ☉ 122 52 46.2 3438.9

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.
23263	HD 180316	19 11.0	+27° 46'	I-25	103a-0	.008	26.5	22 35	22 55	3
23264	ADS 12520	19 25.2	+2 41	"	"	"	+26.4	23 09	23 55	4
23265	ADS 12661	19 31.3	+5 48	"	"	"	+26.2	00 00	00 50	4
23266	HD. 180316	19 11.0	27 46	"	"	"	26.1	00 59	01 30	3
23267	" 214652	22 34.6	36 51	"	H, Spd.	"	26.3	02 04	02 34	2
	Transit		0.75							

Home Temp. +73°

ocus 15.808

Home Temp.

Transparency Conditions *Good*

396

ing Time
E.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
23E	+27 52	0-1	6.64	B5	4-4-4	Set 2 Spect. Bin. Prog.	Good from
24W	+02 48	0-2	7.7	K5	4-4-4	Set 2 Spect. Bin. Prog.	Good
13W	+05 55	0	7.61	K0	4-4-4	Set 8 " " "	Good.
15W	27 53	0	6.64	B5	4-4-4	" 8 Spect. Bin. Thin Cloud.	fine
005E	37 09	0-1	6.5	B3	6-6-6	" 2 " " " " No Guiding	fine
					3/20	" " " " "	etared slightly
						Moon Cloud	
						3 PH.	

397

correction to clock
used for these times
13 - 58

Date Thurs/Fri, July 26/27 Observer Gu } Gu } Hd } Gu } Julian Day 24356.81

© 123 50 05.1 - 3439.8

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.I.	Angle End
23269	⊙ Ceph	17 ^h 15.7	-24 54	I-25	Hi Sp.	108		20 30.23	20 36.23		
	"	"	"	"	"	"		20 37.58	20 44.09		
	"	"	"	"	"	"	+24.9	20 40.52	20 50.58		215
23269	"	"	"	"	"	"		20 51.58	20 57.58		
	"	"	"	"	"	"		20 58.41	21 03.41		
	"	"	"	"	"	"	+24.8	21 04.33	21 09.33		198
23270	"	"	"	"	"	"		21 10.44	21 15.40		
	"	"	"	"	"	"		21 16.16	21 21.20		
	"	"	"	"	"	"	24.8	21 22.15	21 28.15		160
23271	"	"	"	"	"	"		21 29.17	21 35.37		
	"	"	"	"	"	"		21 36.14	21 42.14		
	"	"	"	"	"	"	24.7	21 43.55	21 50.53		200
23272	"	"	"	"	"	"		21 51.52	21 58.52		
	"	"	"	"	"	"		21 59.43	22 06.43		
	"	"	"	"	"	"	24.8	22 08.20	22 15.20		170
23273	HD 154528	17 00.9	77 48	"	"	"	24.8	22 19.2	22 ² 47		148

ome Temp. +70F

Transparency Conditions

Fair

398

ocus 15.766

ome Temp.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
		0	3.07	B ₂	18 ^s 1	G. Appl. Prog.	good
		0	"	"	18 ^s 5	" "	fine
28E-24 57		0	"	"	18 ^s 9	" "	good
		0	"	"	18 ^s 1	" "	fine
		1	"	"	18 ^s 5	" "	fine
09E-24 57		1	"	"	18 ^s 9	" "	fine
		1	"	"	18 ^s 1	" "	fine
		1 3	"	"	18 ^s 5	" "	fine
10W-24 57		0	"	"	18 ^s 9	" "	fine
		0	"	"	18 ^s 1	" "	fine
		0-1	"	"	18 ^s 5	" "	fine
33W-24 57		0	"	"	18 ^s 9	" "	fine
		1	"	"	18 ^s 1	" "	fine
		1	"	"	18 ^s 5	" "	fine
57W-24 57		1	"	"	18 ^s 9	" "	fine
41 48 +77 43		1	6.7	A ₀	4-44	1/2	fine

ome Temp. +70°F

ocus 15.766

ome Temp.

Transparency Conditions *Hazy* 400
Clouds from SW at 02 35 56

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
108m	27 57	1	6.64	B5	4-4-4	Set 2 Sp. Bin.	good
13 E	44 48	1	7.26	A5	4-4-4	" 2 " " "	fine
42 W	21 16	1+	7.10	B7	4-4-4	" 2 Co. Bin. Proj. Flexure	fine
24 W	40 08	0-2	7.0	Fg	4-4-4	" 8 " " "	fine
15 W	59 31	0-2	7.42	M _a	4-4-4	" 2 Blue Bin. Proj. 28/15 Set 8	weak OK

3 P's loaded (#2 Hi-Speed)

July 27

MC	SC	MTW	STW	S	SW	ME
-43.8	+21.2	+57.0	+0.6	+11.6	+69.3	-18.2

Time Temp. 71°

Eus. 15:12

Time Temp.

Transparency Conditions

402

0:8
ending Time
E.S.T.

Star Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
48 45	0-1-0	8-8	K ₀	4-4-4	Set 2 Vis Bin	Telescope binoculars	fine
25E	37 18	1-2	7-12	K ₂	4-4-4	Set 2 Vis Bin	good
54 N	+27 52	~2	6-6-4	B ₅	4-4-4	Sp Bin Set 2	fine
28	+15 28	1~2	8-2	K ₅	4-4-4	set 2 Vis Bin at 2000 ft on the mt. No is rock and roll! Number a strong idea of shape of sp	weak
37 W	+4 14	1	7-2-6	-5	4-4-4	Set 2 Vis Bin <u>Slow dec button not working</u>	cutting weak
					15-15	Set 2	OK
						2 PH of 1-3-0	
						1 PH of Hicpad: #2	

404

Ending Time
E.S.T.

405

406